FORM 107. 52529 12-45 17,500
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL AND GAS
RECEIVED
DEC 22 1947
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Whittier Calif. Dec. 22 19 47

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at well No. Oil Operators #3
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S. B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.
   Total depth 5450' - Plug 5428'
   13-3/8" C 765'
   8-5/8" C 3986'
   1518' 5-1/2" F & C 5446' Perf. 5140-5180', 5190-5200' & 5306-5355'

2. Last produced Nov., 1947 (Date) 8 B/D Ave. (Net Oil) 23.0° (Gravity) 64.1% (Cut)

The proposed work is as follows:

1. Plug off perforations from 5140' to 5355' with a bridge plug.
2. Test H-I Zones by stages from 4200' to 4050'.
3. If O.K., knock out bridge plug and put on production.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket	Ens	Ens

alter casing

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By John R. Fraser
John R. Fraser, Division Engineer

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941
LOS ANGELES, CALIFORNIA

Subsequent Work Report

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937, was filed.

SIGNED Henry E. Winter

Date September 11, 1941

Title DIVISION ENGINEER
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

CASING RECORD AT START OF WORK:
13-3/8" C. 765'
8-5/8" C.3986', O.K.
116' 6-5/8" L. 4075', inc. 89' pf.

CASING RECORD AT END OF WORK:
13-3/8" C. 765'
8-5/8" C. 3986', O.K.
1518' 5½" C. 5446'. Pf: 5140-5180'; 5190-5200'; 5306-5355'

1941	Depth	Eff. Depth	Remarks
7-31	4076		Killed well with mud.
8-2	4080		Drilled through bottom of liner and ahead to 4080' with 5-5/8" bit. Cut 6-5/8" liner at 3976'.
8-3	4080		Recovered 18' 6-5/8" liner. Ran in double cup inverted 6-5/8" casing swab, changed from mud to oil, and washed perforations.
8-6	4170		Recovered remaining 98' of 6-5/8" liner, changed from oil to mud, and drilled ahead with 7-5/8" rock bit.
8-21	5131		Drilled ahead with 7-5/8" bits to 5131'. Hole was directionally controlled, using whipstocks at 4170', 4300', 4844', 4890', and 4977'. Ran Schlumberger survey.
8-25	5450		Continued drilling directionally controlled hole with 7-5/8" bits to 5450'. Coordinates of hole at 5449': 90.29' S., and 48.45' E. from the surface location of the hole. Ran Schlumberger survey. Ran in 1517.97' of new 5½" Grade "C", 17# casing, including 83.44' new Grade "A", and 1.86' Burns 8-5/8"x5-1/2" liner hanger on top. Froze and cemented at 5446' with 285 sacks slow Colton cement.
8-29	5450	Plug 5428'	Found top of cement at 3685' and cleaned out cement to 5428'. Changed from mud to water and bailed fluid to 3011'. After standing 8 hours, found top of fluid at 3011', with no rise. Test was witnessed by D.O.G., and splice of liner approved. Changed from water to oil.

5446
1517
3929

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941
LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937 _____, was filed.

SIGNED Henry E Winter

Date September 11, 1941 Title DIVISION ENGINEER
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

1941	Depth	Eff. Depth	Remarks
8-31	5450	Plug 5428	Ran in Lane-Wells 4-3/8" casing gun perforator and perforated 5½" casing from 5140-5180', 5190-5200', 5306-5355', with a total of 200 1/2" holes. Fluid level at surface during perforating.
9-1	5450	Plug 5428	Ran in rods and tubing and put well on the pump.

PRODUCTION DATA

	Gross	Net	Gravity	% Cut	Hours Pumped
9-1	145	123	22.3	15.5	12
9-2	141	107	22.3	24.2	24
9-3	129	110	22.3	15.0	24
9-4	117	105	22.3	10.5	24
9-5	129	116	22.3	9.9	24
9-6	122	110	22.3	9.9	24
9-7	119	109	22.3	8.7	24
9-8	113	104	22.3	8.4	24
9-9	114	104	23.1	8.4	23
9-10	99	90	23.1	8.6	24

MEASUREMENT DATUM

All measurements taken from top of rotary table, which is 22" above top of derrick floor. Top of derrick floor is 5' 1" above top of cement cellar, or 9' 1" above floor of cellar.

FORM 101.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941
LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Union Oil Company of California Field Long Beach

Well No. Oil Operators #3 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
4076	4723	647'	Drilled		Sand and shale
4723	4732	9'	"		Sand with streaks of shale
4732	4959	227'	"		Sand and shale
4959	4967	8'	"		Shale
4967	5278	311'	"		Sand and shale
5278	5305	27'	"		Shale
5305	5450	145'	"		Sand and shale
		TOTAL DEPTH 5450'			

708 5-39 3M
PRINTED IN U.S.A.

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE No. 3 WELL

Sec. 13, T. 4-S, R. 11-W, S. B. B&M LOCATION ELEVATION

DATE	CORE NO.	DRILLER, SIZE & TYPE BARREL	FROM	TO	TOTAL RECOVERY	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPARENT DIP	ANGLE OF HOLE
										Henry E. Winter		
					(NO CORES TAKEN)							

STATE CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 8976

DIVISION OF OIL AND GAS

LOS ANGELES Calif. 9/10 1941

Herman Oil Co of Calif
Name of Operator

LOS ANGELES
Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4S
R. 13 W. Long Bch B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work

See log - "Oil Operators" 3 8/21/41 — 8/21/41

R. D. BUSH, State Oil and Gas Supervisor

DUPLICATE

By E. H. Musser Deputy

att

FORM 127. 87887 6-40 3500 TRIP

CALIFORNIA STATE PRINTING OFFICE

FORM 109-D.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-40031

Los Angeles, Calif. September 10, 1941.

Mr. W. S. Eggleston,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by James T. Carriel, Inspector, representative of the supervisor, on August 29, 1941. There was also present H. E. Winter, Engineer, and J. Kewish, Drilling Foreman.

Casing Record 13-3/8" cem. 765'; 8-5/8" cem. 3986', W.S.O.; 5-1/2" cem. 3928'-5446'; T.D. 5450', plugged with cement 5450'-5428'.

Junk None.

The operations were performed for the purpose of demonstrating that no fluid has access to the well between the 8-5/8" and 5-1/2" casings,

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 6:30 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. All of the 6-5/8" casing was recovered.
2. A 7-5/8" rotary hole was drilled from 4075' to 5450'.
3. On August 25, 1941, 1518' of 5-1/2" - 17 lb. casing was cemented at 5446' with 285 sacks of Slow Colton cement.
4. Cement was drilled out of the 8-5/8" and 5-1/2" casings from 3685' to 3938' and from 5226' to 5428'.
5. On August 29, 1941, at 10:00 a. m., the fluid was bailed to 3011'.

THE INSPECTOR NOTED THE FOLLOWING:

1. No fluid entered the well while standing 8 hr. for test.
2. The hole was open to 5428'.

The test was completed at 7:20 p. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT NO FLUID HAS ACCESS TO THE WELL BETWEEN THE 8-5/8" AND 5-1/2" CASINGS.

cc- H. E. Winter
Long Beach
JTC:OH

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musser Deputy

FORM 111.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-36673

Los Angeles, Calif. July 28 1941.

Mr. W. S. Eggleston,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your _____ proposal to deepen Well No. "OIL OPERATORS" 3, Section 13, T. 4S., R. 13W., S. B. B. & M., Long Beach Field, Los Angeles County, dated July 22, 1941, received July 24, 1941, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:
"The present condition of the well is as follows:
Total depth 4076'
13-3/8" C 765'
8-5/8" C 3986' O. K.
116' 6-5/8" L 4075', inc. 89' perf.
Last production, June, 1941 - 764 oil, 9,521 water - 30 days.
It is desired to deepen to the "R-S" & "T" Zones."
PROPOSAL:
"The proposed work is as follows:
1. Full 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production."

DECISION:
THE PROPOSAL IS APPROVED PROVIDED THAT:
1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be provided and ready for use at all times.
3. Any hole to be sidetracked in any oil zone shall be filled with cement, if possible.

cc- H. E. Winter
Long Beach
WJC:G
S/R.

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy

FORM 107. 42649 3-37 10M
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL & GAS
RECEIVED
JUL 24 1941
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Santa Fe Springs Calif. July 22 1941

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of deepening, ~~redrilling, plugging or altering casing at~~ well No. Oil Operators #3
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

Total depth 4076'
13-3/8" C 765'
8-5/8" C 3986' O.K.
116' 6-5/8" L 4075', inc. 89' perf.

Last production, June, 1941 - 764 oil, 9,521 water - 30 days
It is desired to deepen to the "R-S" & "T" Zones.

The proposed work is as follows:

1. Pull 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production.

Deepen
Reference to file of data

Maps	Model	Cross Section	Cards	Forms	
				114	1[illegible]
				✓	✓

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Henry E Winter
Division Engineer.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

O. 38024 12-36 15M.
ORNIA STATE PRINTING OFFICE

SUBMIT LOG IN DUPLICATE

FILL BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF ONLY

DIVISION OF OIL AND GAS
RECEIVED
JAN 11 1938
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Petro Resources Inc

LOG OF OIL OR GAS WELL

Operator UNION OIL COMPANY OF CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS 3 NWLBK 83 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Location 982' N-W'ly along the center line of the Pacific Electric Railway right of way from the center line of Bixby Road, projected and thence 271' S-W'ly at right angles Elevation 53.88

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date Dec. 31, 1937 Signed Henry E Winter

Title District Engineer

(Engineer or Geologist) (Superintendent) (President, Secretary or Agent)

Commenced drilling Nov. 5, 1937 Completed drilling Dec. 5, 1937 Drilling tools ~~Cable~~ Rotary

Total depth 4076 Plugged depth

Junk

GEOLOGICAL MARKERS	DEPTH
Wilbur shale	3595-3658
Alamitos shale	3790-3834
"H"	3953
"I"	3987

Commenced producing Dec. 5, 1937 (date) ~~Flowing/gas lift~~/pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	367	23.5	1.5			
Production after ~~30~~ 22 days	279	23.5	1.4			

Casing Record (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
13-3/8	765	Surface	45.97#	New	Smls.	C	17"	350	
8-5/8	3986	Surface	36#	New	Smls	C	12-1/4"	400	
6-5/8	4075	3959	26#	New	Smls	C	7-5/8"	-	

Perforations

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
6-5/8	3986 ft.	4075 ft.	120 mesh	16	6"	Kobe
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths Schlumberger from 765 to 4076 (Attach Copy of Log)

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 11 1938
LOS ANGELES, CALIFORNIA

3

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS 3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E Winter

Date Dec. 31, 1937 Title District Engineer
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

CASING RECORD AT START OF WORK:

New well

CASING RECORD AT END OF WORK:

13-3/8C765
8-5/8C3986 O.K.
116' 6-5/8L4075', inc. 89' perf.

Date 1937	Depth	Eff. Depth	Remarks
11-5	55		Spudded in and drilled with 17" rotary bit.
11-9	765		Drilled with 17" rotary bits to 765. Cemented new E3-3/8" 45.97# National seamless slipjoint casing at 765' with 350 sx Victor H.E.S. treated cement. Cementing operations witnessed and approved by Murray-Aaron of Division of Oil & Gas.
11-10	932		Found top of cement at 761. Drilled out cement and plugs to 765' and drilled ahead with 12-1/4" bits.
11-24	3948		Drilled with 12-1/4" bits to 3930' and cored with 7-5/8" core barrels to 3948. Directional survey of hole made by Alexander Anderson.
11-25	4000		Cored ahead to 4000'. Ran Schlumberger survey. Reamed out core hole with 12-1/4" bit to 3986'.
11-25	4000		Cemented 8-5/8" 36# grade "C" 8-thread rounded seamless casing at 3986 with 400 sacks Victor oil well cement.
12-1	4030		Found top of cement at 3958'. Cleaned out cement and plugs to 3991. Water shut off test on 8-5/8" casing at 3986 witnessed and approved by Stolz of Division of Oil & Gas. Cored to 4030'.
12-3	4076		Cored to 4076. Ran Schlumberger survey. Landed 116'of 6-5/8" 26# Grade "C" 10-thread casing at 4075', including 89' of 120 mesh (16-2-6) Kobe perforated on bottom. Bailed fluid to 1200' when oil broke in.
12-5	4076		Bailed hole clean. Landed 3" upset tubing at 3710'. Ran rods and installed pumping unit. Well on pump 6:00 P.M. 12-5-37.

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS 3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E. Winter

Date Dec. 31, 1937 Title District Engineer
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

PRODUCTION TEST DATA:

1937	Gross	Net	Grav.	Cut	Status	Remarks
12-5	215	159	23.5	26.0	P 11	
12-6	373	367	23.5	1.5	P 24	
12-7	310	307	23.5	1.1	P 24	
12-8	304	301	23.5	1.0	P 24	
12-9	308	305	23.5	1.0	P 24	
12-10	312	309	23.5	1.0	P 24	
12-11	311	308	23.5	1.0	P 24	
12-12	311	307	23.5	1.2	P 24	
12-13	284	282	23.5	0.7	P 24	
12-14	310	308	23.5	0.8	P 24	
12-15	296	293	23.5	1.0	P 24	
12-16	317	314	23.5	1.0	P 24	
12-17	307	304	23.5	1.0	P 24	
12-18	305	302	23.5	1.0	P 24	
12-19	302	299	23.5	1.0	P 24	
12-20	286	283	23.5	1.0	P 22	Changed gas line
12-21	282	279	23.5	1.0	P 24	
12-22	291	287	23.5	1.5	P 24	
12-23	295	291	23.5	1.5	P 24	
12-24	276	271	23.5	1.7	P 21	Working on gas engine
12-25	307	301	23.5	1.8	P 24	
12-26	246	242	23.5	1.5	P 20	Starting gas engine
12-27	283	279	23.5	1.4	P 24	

FORM 708

U N OIL COMPANY OF CALIFORI

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE #3 WELL

LOCATION 53.88 ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE Henry E Winter	APPT. DIP	ANGLE OF HOLE
11-23-37	1	7-5/8 Soll	3930	3948	17.8			10.8		Firm, medium to coarse gray sand. Inclusion of brown shale 0.3 from bottom. Dip - 13°.		
						0.3				Hard sandy brown shale with fracture of 45°.		
								6.7		Firm, medium to coarse gray sand with streaks of soft fine gray sand. Dip - 13°.		
						0.3		17.5				
11-25-37	2	7-5/8 Soll	3948	3966	12.7					NOTE- Driller reported shell at 3951. 2.3' lost at top of core.		
								0.6		Firm medium gray sand		
									0.5	Hard, calcareous shale shell.		
								2.8		Firm to soft medium gray sand.		
						6.1				Hard dark brown shale. Highly fractured in top 1.6'. Fracture of 60° 1.0' from bottom. Dip 13°-24°.		
							0.1			Soft fine brown oil sand. Good odor.		
						0.2				Hard brown sandy shale.		
							0.9			Firm, soft fine brown oil sand. Fair odor and amber cut.		
						1.1				Hard dark brown shale.		
							0.4			Firm, soft fine brown oil sand. Fair odor and amber cut.		
						7.4	1.4	3.4	0.5			
11-25-37	3	7-5/8 Soll	3966	3984	13.1	0.1				Hard, dark brown shale.		
							0.3			Firm, soft fine brown oil sand. Poor odor and light amber cut.		
						0.1				Hard dark brown shale		
							0.5			Soft fine brown oil sand mixed with mud. Poor odor and light amber cut.		
						3.3				Hard, dark brown shale with fractures of 25°. Top 0.4 highly fractured and contains streaks of fine brown oil sand. Streak of fine brown oil sand 0.4 from bottom.		
							0.4			Firm fine brown oil sand. Fair odor and amber cut.		
						2.5				Hard dark brown shale. Dip - 14°.		
						1.8				Hard broken brown shale. Badly mixed with mud.		
							0.2			Firm soft fine brown oil sand. Fair odor and amber cut.		
						3.1				Hard broken brown shale with streaks of fine brown oil sand. Badly broken and mixed with mud.		
						0.8				Hard dark brown shale.		
						11.7	1.4			NOTE-Driller reported shell at 3981.		

FORM 708

U N OIL COMPANY OF CALIFORI

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE #3 WELL

LOCATION 53.88 ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE Henry E Winter	APPT. DIP	ANGLE OF HOLE
11-25-37	4	7-5/8 Soll	3984	4000	12.2	3.9				Hard compact massive dark brown to black shale. Slightly sandy in spots.		
							8.3			Firm soft medium to coarse dark brown oil sand. Strong odor and dark amber cut. Sand looks good. Streak of brown shale at bottom.		
						3.9	8.3					
12-1-37	5	7-5/8 Soll	4000	4015	10.1		0.8			Firm soft fine brown oil sand. Good odor.		
						0.4				Hard dark brown fractured shale. Dip - 22°.		
							1.1			Firm soft coarse brown oil sand. Good odor.		
							4.8			Firm soft fine brown oil sand. Good odor and dark amber cut.		
						0.2				Hard fractured brown shale. Dip - 16° with slickensides along dip.		
							2.8			Firm soft fine brown oil sand. Good odor and dark amber cut. Streak of brown bentonitic shale 0.3 from top.		
						0.6	9.5					
12-1-37	6	7-5/8 Soll	4015	4030	6.7		2.3			Firm soft fine brown oil sand, poorly sorted top 1.0. Good odor and dark amber cut.		
							0.3			Firm, fine brown oil sand laminated with grayish-brown bentonitic shale.		
						0.4				Hard grayish-brown bentonitic shale. Change from oil sand and shale above is very gradational.		
							2.6			Firm, soft fine brown oil sand. Good odor and dark amber cut.		
						0.1				Hard brown shale.		
							1.0			Firm soft fine brown oil sand.		
						0.5	6.2					
12-2-37	7	7-5/8 Soll	4030	4045	7.6	0.2				Hard brown shale. Dip - 17°		
							5.6			Firm soft fine to medium brown oil sand. Good odor and dark amber cut.		
						0.1				Hard grayish-brown bentonitic shale.		
							1.7			Firm soft medium brown oil sand. Good odor and dark amber cut.		
						0.3	7.3					

FORM 708

U N OIL COMPANY OF CALIFORI

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE 53.85 #3 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE Henry E Winter	APPT. DIP	ANGLE OF HOLE
12-2-37	8	7-5/8 Soll	4045	4060	13.2			0.1		1.8 of mud and cavings with streak of fine gray sand 0.5 from top.		
							0.5			Soft fine brown oil sand mixed with mud.		
						4.4	0.5			Hard brown shale with streaks and partings of fine brown oil sand.		
							0.4			Firm soft fine brown oil sand.		
						0.5	0.1			Hard brown shale with streaks of fine brown oil sand.		
							0.4			Firm soft fine brown oil sand.		
						0.2				Hard brown shale.		
							1.0			Firm soft fine brown oil sand. Good odor and dark amber cut.		
						0.5				Hard brown shale.		
							0.9			Soft fine brown oil sand. Good odor		
						0.3				Hard brown shale. Fracture of 27°		
							0.3			Soft fine brown oil sand.		
						0.7				Hard brown shale. Dip - 19°		
							1.8			Soft fine brown oil sand. Good odor and dark amber cut.		
						0.2				Hard brown shale.		
							0.2			Soft fine brown oil sand mixed with mud.		
						0.2				Hard brown shale.		
						7.0	6.1	0.1				
12-2-37	9	7-5/8 Soll	4060	4076	12.3		2.5			Firm, soft fine brown oil sand. Good odor and dark amber cut.		
						1.6				Hard dark brown shale.		
									0.5	Hard slightly calcareous shale shell.		
						0.3				Hard silty dark brown shale.		
							0.2			Firm soft fine brown oil sand.		
						1.2	0.1			Hard silty dark brown shale, with streaks of fine brown oil sand.		
							0.3			Soft loose fine brown oil sand.		
						0.6	0.1			Hard dark brown silty shale with streaks of fine brown oil sand.		
							0.2			Firm soft fine brown oil sand.		
						0.7				Hard dark brown sandy shale with partings of fine brown oil sand. Poor dips 20°-26°.		
							0.6			Firm fine dark brown argillaceous oil sand.		
						0.2				Hard dark brown sandy shale.		
							1.9			Firm soft fine brown oil sand. Good odor and dark amber cut.		
						0.7				Hard dark brown sandy shale. Good dip of 28° with slickensides along dip 0.1 zone of black gouge between shale and sand above.		
							0.6			Soft loose fine brown oil sand.		
						5.3	6.5		0.5			

TOTAL DEPTH - 4076

ORM 101.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 11 1938
LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Union Oil Company of California Field Long Beach

Well No. Oil Operators 3 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	125	125			Surface clay
125	140	15			Shale and boulders
140	350	210			Sand and shale
350	725	375			Hard sand
725	1058	333			Shale and sand
1058	2419	1361			Sand and streaks of shale
2419	2720	301			Sand and shale
2720	2768	48			Hard sand
2768	2888	120			Hard sand and streaks of shale
2888	2890	2			Shell
2890	2937	47			Hard sand and streaks of shale
2937	3592	655			Shale and streaks of sand
3592	3623	31			Hard sand
3623	3630	7			Shale and streaks of sand
3630	3653	23			Hard sand
3653	3765	112			Shale and streaks of sand
3765	3770	5			Hard sand
3770	3853	83			Sand and streaks of shale
3853	3854	1			Shell
3854	3864	10			Shale
3864	3866	2			Shell
3866	4076	210			Sand and streaks of shale (see core record)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 7646

DIVISION OF OIL AND GAS

LOS ANGELES

Union Oil Co of Calif. Calif. 12/9 1937

Name of Operator

LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4S R. 13W - Long Bch, B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work elec log - Oil Operators 3 - 12/2/37

R. D. BUSH, State Oil and Gas Supervisor

DUPLICATE

AH By E Huguenin Deputy

FORM 127. 46818 7-37 3M

CALIFORNIA STATE PRINTING OFFICE

RM 109-B. 46392 7-37 8750.
ALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T 1-33469

Los Angeles, Calif. December 8, 1937.

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

121

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your well No. "OIL OPERATORS" 3, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach Field, in Los Angeles County, was tested for shut-off of water on December 1 (Time and date), 1937. Mr F. C. Stolz, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present R. Rampton, Engineer, and J. Kewish, Toolpusher.

Location of water tested above 3986' and normal fluid level not determined

Depth and manner of water shut-off: 3986 ft. of 8-5/8 in. 36 lb. / ft. of in. lb. casing was 11-26-37 cemented ~~landed~~ in shale (Formation)

at 3986 ft. with 400 sacks Victor oil well cement by casing method.

Water string was landed in 12¼" rotary (Size, rotary or cable tool) hole.

Casing record of well 13-3/8" cem. 765'; 8-5/8" as above.

Reported total depth of hole 4000 ft. Hole bridged from xxx ft. to xxx ft. Hole cleaned out to 3991 ft. for this test.

At time of test depth of hole measured See below ft. and bailer brought up sample of xxxxx

At See below (Time and date) oil bailed to xxx ft., drilling fluid bailed / swabbed to xxx ft.

At " " (Time and date) top of oil found at xxx ft., top of fluid found at xxx ft.

THE INSPECTOR ARRIVED AT THE WELL AT 8:30 A. M. AND MR. RAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 28' of set cement was drilled out of the 8-5/8" casing (equivalent to 8 sacks).
3. The Johnston tester was run into the hole on 4" drill pipe.
4. The wall packer was set at 3989'.
5. The tester valve was opened at 9:12 a. m. and remained open for 30 minutes. During this interval there was a medium blow of air for 6 minutes, a strong to medium blow of gas for 24 minutes.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 2700' of oil was found in the drill pipe above the tester, equivalent to 38 bbl.
2. The fluid sample taken from the bottom of the drill pipe tasted fresh.
3. The recording pressure bomb chart showed that the tester valve was open for 30 minutes.

The test was completed at 11:50 a. m.

THE SHUT-OFF IS APPROVED.

R. D. BUSH
State Oil and Gas Supervisor

By E. Higuliera Deputy

cc- H. E. Winter
Long Beach
FCS:OH

a.B.

629 South Hill Street
LosAngeles, California
November 24, 1937.

Union Oil Company of California,
Santa Fe Springs, Calif.

Gentlemen: Attention Mr. Henry E. Winter

This will acknowledge receipt of and thank you for your letter dated November 22, 1937, giving the correct elevation and location of your well No. "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field, as follows:

Elevation: 53.88' U. S.G. S.

Location: 982 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 ft. southwesterly at right angles.

Our records have been corrected accordingly.

Yours truly,

E. H.

B:EMS Deputy Supervisor.

CC - Mr. R. D. Bush (2)
Long Beach

Corrections Made as Follows	By Whom
Weekly Summaries	
121	
Elev. and Loc. Cards	
Production Reports	
Well Records: Folders	
Well Records: Reports	
Pro Models	
Graphics	20 CLB
Field Maps	

Book
CLB
11/24/37

FORM 401 9-36 70M
PRINTED IN U. S. A.

Union Oil Company of California

PRODUCERS AND REFINERS OF
CRUDE OIL, FUEL OIL, ROAD OIL AND ASPHALT,
UNION GASOLINE, KEROSENE AND DISTILLATE,
'RED LINE' LUBRICATING OILS AND GREASES.

DIVISION OF OIL AND GAS
RECEIVED
NOV 24 1937
LOS ANGELES, CALIFORNIA

Santa Fe Springs, Calif. Nov. 22, 1937

Mr. E. Huguenin, Deputy Supv.,
Division of Oil & Gas,
Los Angeles, Calif.

Dear Sir:

The elevation of the Union Oil Company well "Oil Operators #3" at Long Beach (Sec. 13-4-13) is 53.88 U.S.G.S.

The corrected location is as follows:

982 ft. N-W'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 ft. Southwesterly at right angles.

Our records have been corrected accordingly.

Very truly yours,
Henry E Winter
District Engineer.

HEW:S

FORM 109-D. 47172 7-37 15M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-33407

Los Angeles, Calif. November 29, 1937.

Mr. Ed. Jussen, Jr.,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by E. R. Murray-Aaron, representative of the supervisor, on November 9, 1937. There was also present R. Rampton, Engineer, and J. Kewish, Drilling Foreman.

Casing Record	Junk
13-3/8" cem. 765'; T.D. 765'.	XXXXX

The operations were performed for the purpose of demonstrating that the known surface waters are adequately protected,

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 8:45 A. M. AND MR. RAMPTON REPORTED THE FOLLOWING:
1. A 17" rotary hole was drilled from the surface to 765'.
2. 770' of 13-3/8" - 45.97 lb. casing was run into the hole to 765'.

THE INSPECTOR NOTED THE FOLLOWING:
1. The 13-3/8" casing was cemented at the reported depth of 765' with 350 sacks of Victor High Early cement.
2. The final pressure was 500 lb.

The operations were completed at 9:30 a. m.

THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT THE KNOWN SURFACE WATERS ARE ADEQUATELY PROTECTED.

cc- H. E. Winter
Long Beach
ERMA:OH

R. D. BUSH
State Oil and Gas Supervisor

By E. Hugselin Deputy

FORM 111. 46011 6-37 20M.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-31535

Los Angeles, Calif. November 4, 1937

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to drill Well No. "OIL OPERATORS" 3,

Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County,

dated Oct. 28, 1937, received Oct. 29, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

"The well is ~~355 feet W'ly along the center line of San Antonio from the center line of Del Mar Ave. and thence 925' N'ly at right angles.~~ 53.88 ft.
The elevation of the derrick floor above sea level ~~will be determined later - approx. 55 ft.~~
We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less."

PROPOSAL:

"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing	Weight	New or Second Hand	Depth	Landed or Cemented
13-3/8"	46	New	700'	Cmtd.
8-5/8"	36	New	4000	Cmtd.
6-5/8"	Perforated liner	New	4100'	Landed

Well is to be drilled with rotary tools.
It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
   (b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.
3. The formations to be left back of the 8-5/8" casing shall be mudded by open circulation until the loss is not more than 5 bbl. per hr.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   (a) The cementing of the 13-3/8" surface casing.
   (b) Final mudding operations before cementing the 8-5/8" casing.
   (c) A test of the effectiveness of the 8-5/8" shut-off.

*982 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 feet southwesterly at right angles. (Correction letter 11-24-37)

cc- H. E. Winter
Long Beach
WJC:OH

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy

FORM 105. 24758 9-35 10M
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL AND GAS
RECEIVED
OCT 29 1937
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice must be given before drilling begins

037-06496

General Exploration Co. Santa Fe Springs Cal. Oct. 28, 1937

MR. E. HUGUENIN

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

P1-31535

DEAR SIR:

"Oil Operators" 3

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M., Long Beach Oil Field Los Angeles County.

Lease consists of 982 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 feet south-

The well is 355 W'ly along the center line of San Antonio from the center line of Del Mar Ave. and thence 925' N'ly at right angles. feet XXXXX, and XXXXXXXXXXXX

(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is Will be determined later - 53.88 feet. approx. 55 ft. westerly at right angles. (Correction letter 11-24-37)

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	New or Second Hand	Depth	Landed or Cemented
13-3/8"	46	New	700'	Cmtd.
8-5/8"	36	New	4000	Cmtd.
6-5/8"	Perforated liner	New	4100'	Landed

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less.

Respectfully yours

Address Santa Fe Springs, Calif.

UNION OIL COMPANY OF CALIFORNIA
(Name of Company or Operator)

Telephone number Whittier 42687

By Henry E Winter
District Engineer.

Reference to file of data

Maps	Model	Use Tool	Cards		
				✓	✓

ADDRESS NOTICE TO DEPUTY STATE OIL AND GAS SUPERVISOR IN CHARGE OF DISTRICT WHERE WELL IS LOCATED

Wildcat - Wall
Topog - #54
SHR

Wildcat Book
CLB
10/29/37

SCHLUMBERGER ELECTRICAL LOGS

I- 267

COMPANY: [illegible] DATE: [illegible]

FIELD: Lower Head LOCATION:

WELL: C.A.G. Inspection, Ltd. (Kirkland Lake)

Casing shoe: Kirkland Lake

Bottom: Dec. 13-46-12N. (1955-[illegible]) 1st Date

Max. depth: 1 ft

Max. footage measured by [illegible] m. Average measured by run: M

Footage missed: m. Total time measured by run: h

MUD CHARACTERISTICS

NATURE: NATIONAL VISCOSITY: LEVEL:

DENSITY: 70 RESISTIVITY: [illegible]

DIAMETER OF HOLE

REMARKS

[illegible]

SCHLUMBERGER ELECTRICAL LOGS

COMPANY: [illegible] DATE: [illegible]

FIELD: Lower Head LOCATION:

WELL: [illegible] Inspection, Ltd. (Kirkland Lake)

Casing shoe depth: Date: 1955 Time: 1700 h. Started run: 4:00 h. m.

Bottom: Depth: 8300 ft. Time: 1800 h. Finished run: 4:00 h. m.

Max. depth reached by lower shoe: 8300 ft. Time: 1800 h. Time setting at well: 1:00 h.

Max. footage measured by run: 8300 ft. Mileage measured by run: 1 ft. M

Footage missed: m. Total time measured by run: h

MUD CHARACTERISTICS

NATURE: NATIONAL VISCOSITY: LEVEL:

DENSITY: 70 RESISTIVITY: [illegible]

DIAMETER OF HOLE

[illegible]

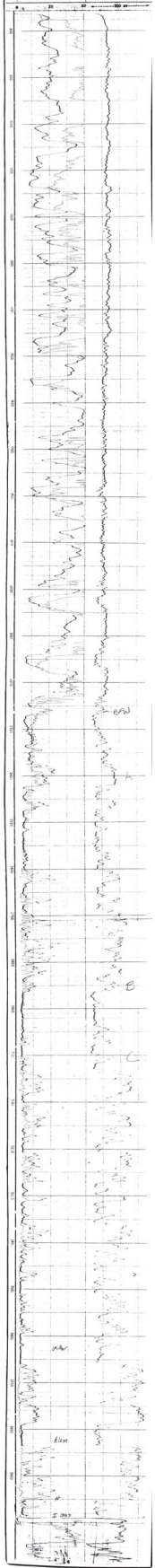
REMARKS

[illegible]

Witnessed By: Mr. Hagerstrand Mr. [illegible]

OBSERVER: [illegible]

RESISTIVITY LOG — FORMATION LOG



1 267

SCHLUMBERGER

WELL SURVEYING CORPORATION

C.R.G. Properties, Ltd. CALIFORNIA

COMPANY: UNION OIL CO. OF CALIFORNIA

FIELD: Long B

WELL: Oil Op

LOS ANGELES, CALIFORNIA

RECEIVED AUG 28 1941

Rec. "Oil Operators" 3 (037-06496)

Sec. 13-4S-13W.

SEC. T. R.

COUNTY: Los Angeles STATE: California

ELEV.: 53.88 U.S.G.S.

UNION OIL CO.

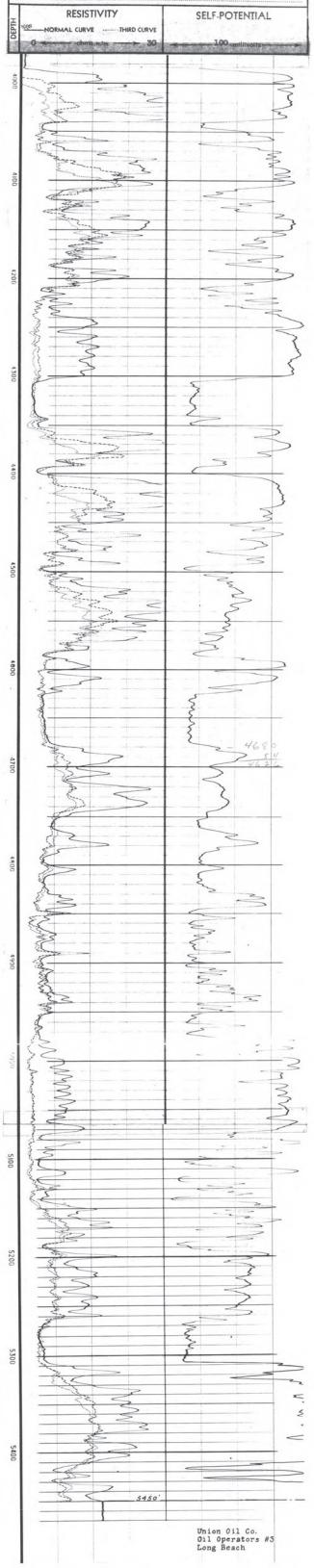
RUN	D-1	D-1	3	4	5
Date	8-21-41	8-25-41			
Csg. shoe	3986'	3986'			
Total depth	5200'	5450'			
Depth rchd	5198'	5450'			
Ft. Meas.	1212'	252'			
Mud Nat.	Chemical	Chemical			
Dens	73#	74			
Visc	43	41			
Res.	2.66 86°F	3.16 91°F			
Max. Temp.	166°F	144°F			
Meas. from	table	table			
Tension	1700#				
Rig. Time	1½ hrs.	1-3/4 hr.			
Mileage	10	10			
Observer	V.T.Pant	V.T.Pant			
Witnessed by:	Winter	Winter			

DIAMETER OF HOLE

7-5/8"

REMARKS

Device: Standard 3rd curve --------
Long device 3rd curve .....



Union Oil Co.
Oil Operators #3
Long Beach

SCHLUMBERGER INDUCTION-ELECTRICAL LOG

COMPANY C.A.O. Properties, Inc.
WELL Bry-Petroleum 2
(037-06496)
FIELD NORTH LONG BEACH
COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION
Sec. 13 Twp. 5S Rge. 12W
Other Services
COND-MI

Permanent Datum
Log Measured From
Drilling Measured From

Date	2-11-57	12-6-57	1-25-57
Run Number	ONE	ONE	ONE
Depth-Driller	5100	5000	5100
Depth-Logger	5100	5000	5100
Bottom Logged Interval	5100	5000	5100
Top Log Interval	1500	1500	1500
Casing-Driller	8 5/8 @ 1500	8 5/8 @ 1500	8 5/8 @ 1500
Casing-Logger	1500	1500	1500
Bit Size	7 7/8	7 7/8	7 7/8
Type Fluid in Hole	MUD	MUD	MUD
Dens. / Visc.			
PH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.			
Rmf @ Meas. Temp.			
Rmc @ Meas. Temp.			
Rm @ BHT			
Rmf @ BHT			
Rmc @ BHT			
Max. Rec. Temp.			
Equipment Number			
Location			
Recorded By			
Witnessed By			

EQUIPMENT DATA
Type Log
Bottom Logged Interval
Top Log Interval
Type Fluid in Hole
Salinity, PPM Cl
Density
Level
Max. Rec. Temp. °F
Estimated Cement Top
Time Since Circulation
Time Since Last Log
Max. Rec. Temp. °F
Equipment Number
Location
Recorded By
Witnessed By

MATRIX TABLE
Matrix Density
Matrix Delta T

CALCULATIONS
Fluid Density
Fluid Delta T
Porosity Factor
Hydrocarbon Correction
Porosity
Formation Factor
Water Saturation

CONDUCTIVITY
millimhos
RESISTIVITY
ohms m²/m
ohms m²/m
INDUCTION
DEPTHS
SPONTANEOUS POTENTIAL
millivolts

COMPANY C.A.O. PROPERTIES, INC.
WELL BRY-PETROLEUM 2
FIELD NORTH LONG BEACH
COUNTY LOS ANGELES STATE CALIFORNIA

PACIFIC PROCESS SYSTEMS, INC.
Ph: 661.589.8844
Fax: 661.589.8330

Temperature Survey

WELL: 8-3

COMPANY: CRG Properties, LTD.
FIELD: Long Beach
COUNTY: Los Angeles STATE: CA

WELL DATA

DATE: 4-26-2005
TYPE LOG: TEMP
TOTAL DEPTH:
GDA: 2,943'
TOP LOGGED INTERVAL: 0'
FLUID LEVEL: 775'
PKR DEPTH:
PLUG BACK DEPTH:
RECORDED BY: John Reece

CASING: 8.625"
TUBING:
TOP PERFORATION: 4,091'
BOFW: 2,100'
LINE SPEED: 30 ft/min
DF above Mat: 0'

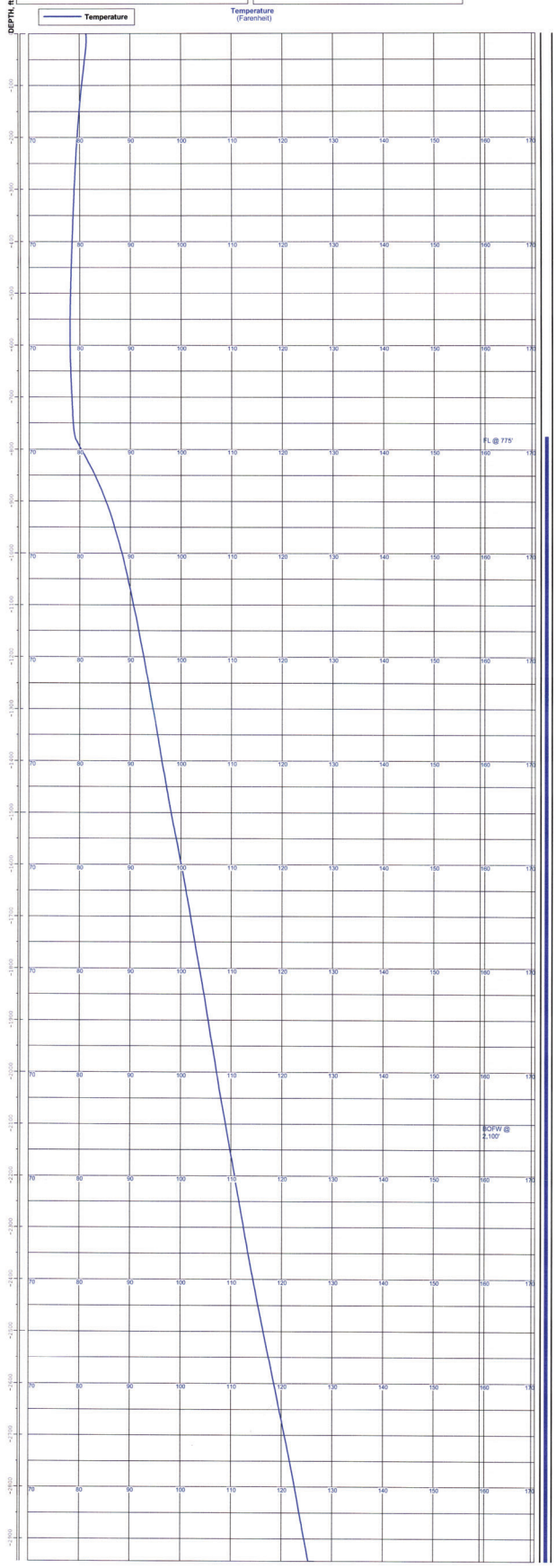
API: 03706496

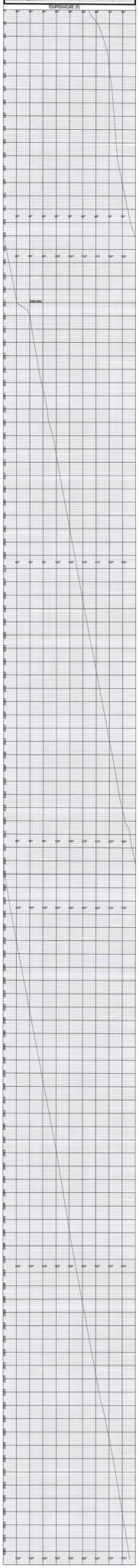
EQUIPMENT AND TEST DATA

PRESSURE TBG psi:
PRESSURE CSG psi: 43
WELL STATUS: Static

TRUCK No: 1
TOOL SIZE: 1 1/4"

TOOL DATA
CALIBRATED TEMP RANGE:-0.9-253.9deg F
ACCURACY RESOLUTION: 0.25% FS
RESOLUTION: 0.002% FS
COMMENTS: MAX BH TEMP 126.44 F




TEMPERATURE (F)

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

REPORT OF WELL ABANDONMENT

Cypress, California
March 27, 2017

Mr. Mark Pender
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your report of abandonment of well **"Nwlbu" 8-3**, A.P.I. No. **037-06496**, Section **13**, T. **04S**, R. **13W**, **SB** B.&M., **Long Beach** field, **Los Angeles** County, dated **12/15/2013**, received **1/8/2014**, has been examined in conjunction with records filed in this office. We have determined that the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filing of well records. The plugging and abandonment of the well is **approved**.

The determination of this well plugging and abandonment is based on the following information, consistent with California Public Resources Code (PRC), and the California Code of Regulations (CCR):

1. Surface plugging completed on 12/2/2013.

2. Site inspection made and approved on 12/19/2013.

Kenneth A. Harris Jr.
State Oil and Gas Supervisor

By Scott Walker
For Daniel J. Dudak, *District Deputy*

EPM:epm

cc: Long Beach Dept. of Gas & Oil

OG159

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 200 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

REPORT OF WELL ABANDONMENT

Cypress, California
May 21, 2014

Mr Mark Pender
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your report of abandonment of well **"Nwlbu" 8-3**, A.P.I. No. **037-06496**, Section **13**, T. **04S**, R. **13W**, SB B.&M., **Long Beach** field, **Los Angeles** County, dated **12/12/2013**, received **2/4/2014**, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filing of well records.

NOTE: 1. Surface plugging completed on 12/2/2013.

2. Site inspection made and approved on 12/19/2013.

Pat Perez
Acting State Oil and Gas Supervisor

By
Daniel J. Dudak, *District Deputy*

EM:kj

cc:Update

OG159

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

SITE RESTORATION MEMO

Operator: C.R.G Properties, Ltd Well "NWLBU" 8-3

API No. 037-06496 Sec. 13 T. 045 R. 13W , SB B&M

Field Long Beach , County Los Angeles Date 3/21/2014

Mr. / Ms. Abdulmageed (AB) Abdulrahman representative of the supervisor, was present 1000 to 1200

There were also present: Mick Beyer of AllenCo Contact Number: (310) 505-9787

Email:

Surface location description: The property at 712 W. Baker Street (Baker Street / Golden Street.) The property can be accessed near intersection of Magnolia Ave. and Wardlow Rd.

Date of Abandonment/Re-Abandonment: 11/01/2013

	Approved	Not Approved	Corrected	Comments
Well Accessibility	X			Not obstruction as of the date of the inspection
Oil & Gas Field Equipment Removed	X			
Oil Field Related Waste/Refuse Removed	X			
Well Cellar Removed	X			
Operation Sumps Removed				Not Applicable
Visible Surface Oil Contamination Removed	X			
Oil Field Related Power Pole(s) Removed	X			
Tank(s) Removed	X			
Surface Pipeline(s) Removed	X			
Pad(s) Removed	X			

Photos Taken For the Final Inspection:

See the following photos.

Number of deficiencies: N/A **Deficiency Letter Date:** ____ **Deficiency Letter Number:** ____

Photos attached to well file: Yes ■ No ☐

The inspection as witnessed and reported is approved. Yes ■ No ☐

By: Abdulmageed G. Abdulrahman **Date:** 6/17/2014

Dist 1, Rev 5/2014

All equipment, pipeline, casing or junk were removed from the site. All liquid wastes were removed and properly disposed. Excavations filled with earth and compacted properly to prevent settling.

Additional description of site restoration: _____

_____

_____

Discription: _____

_____

Dist 1, Rev 5/2014

11/07/2013 09:04

NWI BU
83
06496
12-13
12/04/2013 11:15

03/21/2014 10:50

03/21/2014 10:47

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	**C.R.G. Properties,LTD**	Well: **NWLBU 8-3**
API#:	**037-06496**	Sec. **13**, T. **4S**, R.**13W**. S. B. B. & M.
County:	**Los Angeles**	Field: **Long Beach**

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	2/4/2014 (2)
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Date final records received.	
Electric Logs:	
Other:	

STATUS			
Active	☐	Drilling	☐
Abandoned	☒	Idle	☐
Reabandoned	☐	Other	☐

WELL TYPE			
Oil	☒	Waterflood	☐
Gas	☐	Water Disposal	☐
Water Source	☐	Cyclic Steam	☐
Observation	☐	Steam Flood	☐
Exploratory	☐	Fire Flood	☐
Dry Hole	☐	Other	☐

EFFECTIVE DATE: 12/2/13

REMARKS:
Abandoned

	ENGINEERS CHECK LIST	CLERICAL CHECK LIST
☒	Summary, History & Core Record (Dupl.)	Location change
☐	Electric Log	Elevation change
☒	Operator's Name	Form OGD121
☒	Signature	Form OGD150b (Release of Bond)
☒	Well Designation	Duplicate logs to archives
☐	Location	Notice of Records Due
☐	Elevation	EDP MC 5-15-14
☒	Notices	District Date Base
☒	"T" Reports	Final Letter (OG159) 5-21-2014
☒	Casing Record	Update Center MC 5-15-14
☒	Plugs	
☐	Directional Survey	
☐	Production/Injection (FAP Codes: 412-03-00)	
☐	E Well on Prod., enter EDP	**FIELD CHECK LIST**
☒	Surface Inspection Required 12/19/13 ok	Date Surface Inspection Completed: 12/19/13 BF ok
☐	Surface inspection Waived (Island)	Other:
☐	Well site restoration deferred (common cellar)	
☒	Final Letter Required AB: ☒ REAB: ☐	
☐	Other:	

RECORDS NOT APPROVED	RECORDS APPROVED 5/14/14
(Reason:)	*(Signature)* K.M. Andrews
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

OGD2 1/16/14 CYPRESS

a

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator C.R.G. Properties, LTD Field Long Beach County Los Angeles
Well "NWLBU" 8-3 Sec. 13 T. 04S R. 13w sbB.&M.
A.P.I. No. 037-06496 Name Mick Beyer (Person submitting report) Title Operations Manager (President, Secretary, or Agent)
Date 12-12-13 (Month, day, year) Signature M. B
Address 2109 Gundry Ave. Signal Hill, Ca. 90755 Telephone Number 562 989-6100

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

11-08-13	M.I.R.U. – Installed and tested BOPE–Witnessed by C. Cullum w/DOGGR - Secured Well
11-11-13	R.I.H.5 ½" Scraper tagged dn.@ 5842' = 104' above clean out depth - Circ.with water w/returns of oily water and gas - P.O.H. Witnessed by M. Okafor & Z. Amilhussin w/ DOGGR - Secured well
11-12-13	R.I.H.W/Tbg. cleaned out scale and fine sand from 5842' to 5900' unable to work deeper – Secured well
11-13-13	W/Tail at 5900' mixed and pumped 247 cu/ft (217 sxs) class G cement – P.O.H.– Witness by Secured well
11-14-13	R.I.H. Tagged cement plug at 4067'.- Pumped 15 bbls. 73# mud – R.I.H. W/8 5/8" Scraper to 3043'= TLH – P.O.H. – R.I.H.- Tbg. – Witnessed by Secured well
11-15-13	W/tbg. Tail at 3875' Mixed and pumped 212 cu/ft. (186 sxs) class G cement – P.O.H. Witnessed by T. Tyler w/DOGGR - Secured well.
11-18-13	R.I.H. Tagged cement plug at 2773' – Tested casing at 1000 psi – Good – Pumped 25 bbls. of 73# mud P.O.H. – R.I.H. Shot perforations from 2450' to 2440' – P.O.H.- R.I.H.w/ Tbg. Tail at 2450' Establised break down at 1.5 bbls/min.@ 800 psi.Mixed and Pumped 203 cu/ft (178 sxs) class G cement Squeezed away 107 cu/ft.(94 sxs) Witnessed by W/ DOGGR - secured well
11-19-13	R.I.H. Tagged cement 2171' – Pumped 120 bbls, 73# mud – P.O.H. – Shot perforation from 210' to 200' – R.I.H. W/tbg. Tail at 210' mixed and pumped 209 cu/ft.(183 sxs) class G cement – cement returns from 8 5/8" & 13 3/8" csg. – cement to surface inside and outside – P.O.H.- Witnessed by T. Tyler– R.D.M.O.
11-25-13	Dug down around well and cut casing 5' below surface – Found cement low inside 10' and outside 20' – Secured well
12-03-13	Topped off casing's with 36 c.f.(31 sxs) class G cement- E. Tabor w/DOGGR witnessed
12-04-13	Surface tag and welding of I.D.Plate Witnessed by P.Kaufman - Backfilled well location - Job complete.

DOGGR
Received
FEB 04 2014

OG103 (6/97/GSR/5M)
Printed on recycled paper.

SUBMIT IN DUPLICATE

F

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator C.R.G. Properties, LTD Field Long Beach County Los Angeles

Well "NWLBU" 8-3 Sec. 13 T. 04S R. 13w sbB.&M.

A.P.I. No. 037-06496 Name Mick Beyer (Person submitting report) Title Operations Manager (President, Secretary, or Agent)

Date 12-12-13 (Month, day, year)

Signature M. B

Address 2109 Gundry Ave. Signal Hill, Ca. 90755 Telephone Number 562 989-6100

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

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DOGGR
Received–
FEB 04 2014

OG103 (6/97/GSR/5M)
Printed on recycled paper.

SUBMIT IN DUPLICATE

D ON OF OIL, GAS, AND GEOTHERMAL RESOUR(

T 114-0060 KMA 12/3/13

CEMENTING/PLUGGING MEMO

Operator CRG Properties Well No. "Nwlbu" 8-3
API No. 037-06496 Sec. 13 T. 04S R. 13W , S.B. B&M
Field Long Beach , County Los Angeles . On 12-4-13 ,
Mr. / Ms. J. Collender , representative of the supervisor, was present from 1115 to 1130 .

There were also present Mr. Tim Parker (Allenco)

Casing record of well: 13 3/8" cem 765', cp 200'; 8 5/8" cem 3986', drilled thru 3139', cp 2,440'; 5 ½" ld 3043'-5964', cp 4393',
perfs ~~4468~~ 4401-5827'. TD (present hole) 6540'. Plugged w/ cem ~~6540'-5964'~~, 5878'-4067', 3875'-2773', 2450'-2171', 210'-~~6.5'~~ 7.

The operations were performed for the purpose of Abandonment (1)

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____ ' are approved.

Hole size: 17 " fr. 0 ' to 765 ', 12 ¼ " to 3139 ' & 7 5/8 " to 6540 '

Casing				Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
8 5/8"	36#	0'	3,986'	11/18/13	tbg@ 2,450'	200 cf	2174'	2171'	114 cf	700 psi	2,440'-2,450'
13 3/8"	46#	0'	210'	11/19/13	tbg@200'	103 cf	0	29.5'	26 cf	--	200'-210'

Casing/tubing recovered: _____ " Shot/cut at _____ ', _____ ', _____ ' Pulled fr. _____ ';
_____ " Shot/cut at _____ ', _____ ', _____ ' Pulled fr. _____ '.

Junk (in hole): _____

Hole fluid (bailed to) at _____ '. Witnessed by _____

Mudding	Date	bbls	Displaced	Poured	Fill	Engineer
83/25	11/14/13	25	4067'		3,875'	C. L. Cullum
73/ 26	11/18/13	27	2,773'		2,318'	Z. Amilhussin
73/40	11/19/13	120	2,018'		1,971'	T. Tyler

Note (12) Class II 3M; 11/08/13; C. Welty C/O 5900' w/ 20,000# @ 1200 11/12/13 PK

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
11-13-13	247 cf	Tbg 5878'*	0900	WM Flores	4067'	4000#	11/14/13 0715	C.L.Cullum
11-15-13	212 cf	Tbg@ 3875'	0830-1045	T. Tyler	2,773'	2,000#	11/18/13 0715	Z. Amilhussin
11-18-13	210 cf	Tbg@ 2450'	1300	Z. Amilhussin	2171'	2,000#	11/19/13 0715	T. Tyler
11-19-13	73sx/84 cf	Tbg@200'	1425-1500	T. Tyler	29.5	---	----	-----
12/2/13	36 cf	Top 29.5	1030	E. Tabor	6.5'	visual	12/4/13 1115	J. Collender

* 6 stages with tbg raised from 5878' through 4313'

Andrews, Kathleen@DOC

From: Moser, Ellen@DOC
Sent: Tuesday, November 12, 2013 12:53 PM
To: Andrews, Kathleen@DOC
Subject: FW: Well Abandonment Nwlbu 8-3

Mick wants a variance to start cementing at 5900'.

From: Mick Beyer [mailto:mbeyer@allencoca.com]
Sent: Tuesday, November 12, 2013 12:34 PM
To: Moser, Ellen@DOC
Subject: Well Abandonment Nwlbu 8-3

Ellen,

We tagged fill at 5842' cleaned out with water down to 5900' (we had no solid returns to surface, it seemed like cement steamers) we are hitting hard at this depth. Well history is showing cement plug at 5964' it seems we are hitting it at 5900'. We would like approval to start are cement plug at 5900'

Note; On well 9-4 we tagged hard at 9125' when clean out depth was 9151' DOGGR Allowed us to cement at 9125'
Note; On well 9-5 we tagged fill at 9410' cleaned out hard to 9420' when clean out depth was at 9454' DOGGR Allowed us to cement at 9420'

Sincerely,

Mick

Mick Beyer, Operations Manager
mbeyer@allencoca.com
AllenCo
2109 Gundry Avenue
Signal Hill, CA 90755
Phone: 562-989-6100
FAX: 562-989-6104
Cell: 310-505-9787
www.allenco-oilwellservice.com

Telecon w/M. Beyer – gravel-sized chunks of cement had been brought up for some time with well fluids when circulating. Then brought up chunks of cement. Fill at 5900' is hard, push on w/20K#. Okayed to cement. Allenco will use 8 5/8" scraper to liner top, then circulate before placing mud. KMA 11/12/13.

11/14/13 Okayed change in program to place one plug from 3875' to 2800'. KMA

NATURAL RESOURCES AGENCY OF CALIFORNIA
EPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 200 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

No. T **114-0060**

REPORT ON OPERATIONS

Mr Mark Pender
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Cypress, California
January 24, 2014

Your operations at well **"Nwlbu" 8-3**, A.P.I. No. **037-06496**, Sec. **13**, T. **04S**, R. **13W**, **SB** B.&M., **Long Beach** field, in **Los Angeles** County, were witnessed on **11/8/2013**, by **Jack Collender**, a representative of the supervisor.

The operations were performed for the purpose of **plugging and abandonment**.

DECISION: **APPROVED**

NOTE: The required Class 112M blowout prevention equipment was inspected and approved on 12/4/2013.

DEFICIENCIES NOTED AND CORRECTED: NONE

KMA:dt

cc: Update

Tim Kustic
State Oil and Gas Supervisor

By: _____
For: Daniel J. Dudak, *District Deputy*

OG109 (Rev. 10/2011)

API No. 037-06496 DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES T

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator C.R.G. Properties, LTD Well "NWLBU" 8-3 Sec. 13 T. 4S R. 13W
Field Long Beach County L.A. Spud Date

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	11/08/13	C. Welty	(1500 to 1530)		
2nd & Quang Than, Dale Peterson			(to)		

Contractor Allenco Rig # 2 Contractor's Rep. & Title Derick Beyer, Driller
Casing record of well: memo

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☒ N ☐
DECISION: The blowout prevention equipment and its installation on the 8.625 " casing are approved.

Proposed Well Opns: Abandonment MACP: psi
Hole size: " fr. ' to ', " to ' & " to '

REQUIRED BOPE CLASS: II3M C. Welty 11/8/13

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
Rd	2 7/8	Shaffer	Chasoy	7.125	5M		1						
Rd	cso	Shaffer	Chasoy	7.125	5M		1						

TOTAL: 2

ACTUATING SYSTEM

Accumulator Unit(s) Working Pressure 1,400 psi
Total Rated Pump Output gpm Fluid Level
Distance from Well Bore 30 ft. ok

	Accum. Manufacturer	Capacity	Precharge
1	Koomey type	20gal.	1000psi
2		gal.	psi

CONTROL STATIONS	Elec.	Hyd.	Pneu.
Manifold at accumulator unit		X	
Remote at Driller's station			
Other: hand pump			

EMERG. BACKUP SYSTEM			Press.	Wkg.Fluid
N_2 Cylinders	1	L= 51 "	2280psi	7 gal.
Other:	2	L= 51 "	2280psi	7gal.
	3	L= "		gal.
	4	L= "		gal.
	5	L= "		gal.
	6	L= "		gal.
		TOTAL: 14		gal.

HOLE FLUID MONITORING EQUIPMENT	Alarm Type Audible	Visual	Class
Calibrated Mud Pit			A
Pit Level Indicator			B
Pump Stroke Counter			
Pit Level Recorder			
Flow Sensor			C
Mud Totalizer			
Calibrated Trip Tank			
Other:			

AUXILIARY EQUIPMENT

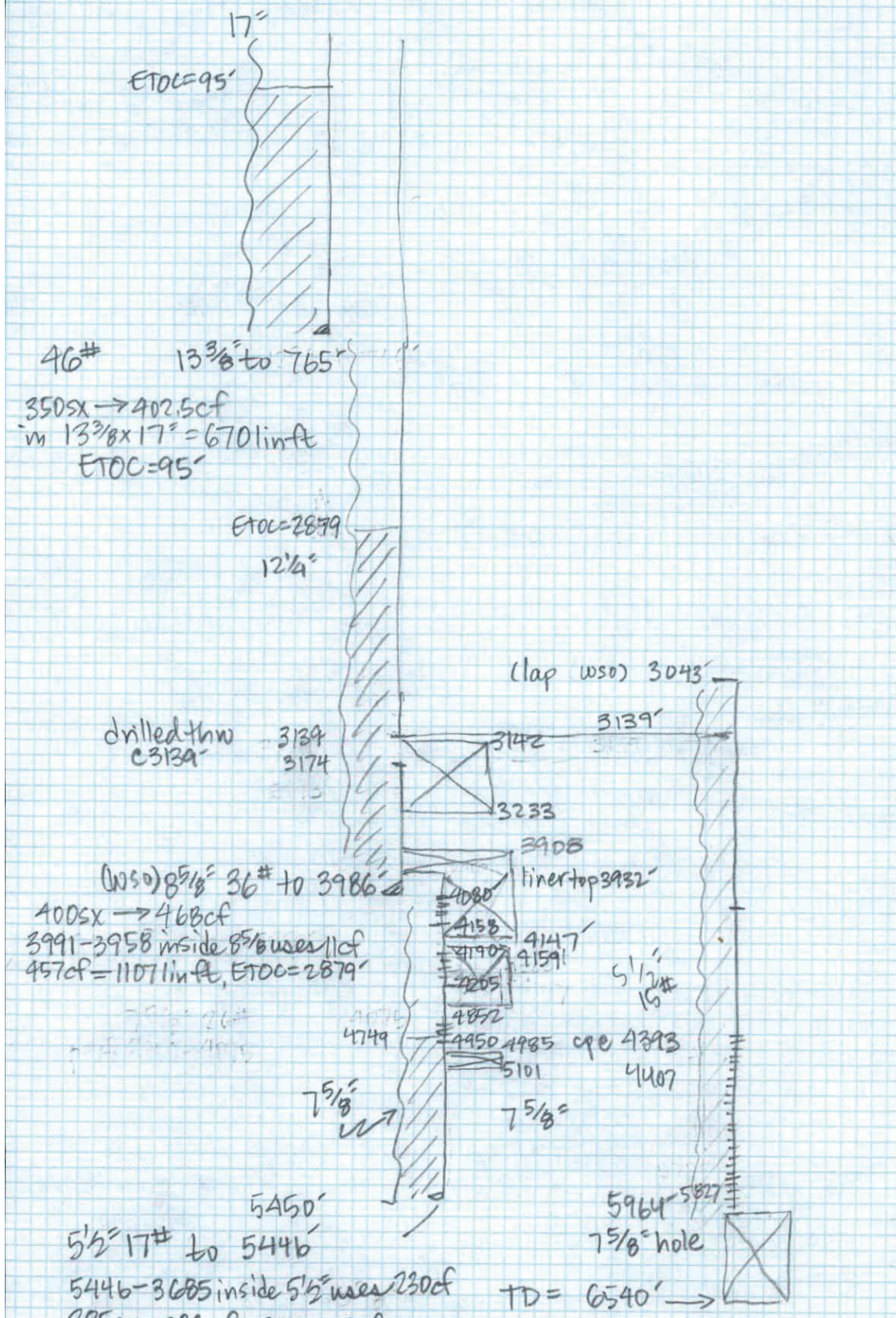
		No.	Size (in.)	Rated Press	Connections Weld	Flange	Thread	Test Press.
	Fill-up Line							
x	Kill Line		2	5M				
x	Control Valve(s)	2		5M				
	Check Valve(s)							
	Aux. Pump Cnnct.							
	Choke Line							
	Control Valve(s)							
	Pressure Gauge							
	Adjstble Choke(s)							
	Bleed Line							
	Upper Kelly Cock							
	Lower Kelly Cock							
	Standpipe Valve							
	Stndpipe Pres. Gau.							
x	Pipe Safety Valve		2.88	5M				
	Internal Preventer							

Hole Fluid Type	Weight	Storage Pits (Type & Size)
Lease water.		

REMARKS AND DEFICIENCIES:

OGD9 (9/06)

037-06496
"NWlbu" 8-3



TOPS FORM 33101
MADE IN U.S.A.

KMA
11-6-13

.TURAL RESOURCES AGENCY OF CALIFOI
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. P 113-0596

Old		New
412	FIELD CODE	412
03	AREA CODE	03
00	POOL CODE	--

PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL

Cypress, California
July 15, 2013

Mr Mark Pender, Agent
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your proposal to **Abandon** well **"Nwlbu" 8-3**, A.P.I. No. **037-06496**, Section **13**, T. **04S**, R. **13W**, **SB** B. & M., **Long Beach** field, **Northwest Extension** area, **Brown** pool, **Los Angeles** County, dated **7/10/2013**, received **7/10/2013** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
   a. Class **II3M,** with hydraulic controls, during **abandonment** operations.
   b. A **3M lubricator** for **wireline** operations.
2. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of **72** lbs/cu.ft and a minimum gel shear strength of **25** lbs./100 sq. ft.
5. Prior to shooting any perforations for braidenhead squeezes, a pressure test of the **8-5/8"** casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
6. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83.
7. All casing must be removed from between 5' and 10' below ground level.
8. Well site restoration shall be completed within 60 days following the completion of plugging operations.
9. No program changes are made without prior Division approval.
10. **THIS DIVISION SHALL BE NOTIFIED TO:**
    a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
    b. Witness the clean-out depth at **6540'**.

(Continued on page 2)

No Bond Required
cc: Update
EDP
AllenCo.
DOGGR – Dist. 1 (Cypress)

Tim Kustic
State Oil and Gas Supervisor

Engineer Ellen Plaza Moser
Office (714) 816-6847

By _____
For: Daniel J. Dudak, *District Deputy*

EPM/epm

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

c. Witness the placing, location and hardness of the cement plug from **6540'** to **4193'**.
d. Witness the mudding operations.
e. Witness the placing, location and hardness of the cement plug from **3875'** to **3675'**.
f. Witness the placing, location and hardness of the cement plug from **3043'** to **2800'**.
g. Witness a pressure test of the **8-5/8"** casing.
h. Witness the cement squeeze through the **perforations** at **2440'** through a retainer or packer (if casing integrity is not demonstrated).
i. Witness the placing, location and hardness of the cement plug from **2450'** to **2190'**.
j. Witness the cement squeeze through the **perforations** at **210'** through a retainer or packer (if casing integrity is not demonstrated).
k. Witness the placing, location and hardness of the cement plug from **210'** to **surface'**, including all annular spaces.
l. Inspect the restored well site.

NOTE:

1. Upon completion of the proposed work, a History of Oil or Gas Well (form OG103) shall be submitted to this office.
2. The well abandonment history (History of Oil or Gas Well - form OG103), must include a description of the removal or abandonment of the well flowline and any associated piping.
3. Hydrogen sulfide gas (H_2S) is known to be present in this area, adequate safety precautions shall be taken prior to and during well operations.
4. The operator shall isolate the following zones:
   a. **Base of the Freshwater Sand at 2260'.**
   b. **Top of the Upper Gas Zone at 2400'.**
   c. **Top of the Wilbur Zone at 3000'.**
   d. **Top of the Alamitos Zone at 3875'.**
   e. **Top of the Brown Zone at 4680'.**

   Failure to achieve adequate zonal isolation may have negative impacts on current and future operations. In addition, failure to achieve adequate zonal isolation will also be noted on the Report of Operations (OG 109).

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

OIL, GAS & GEOTHERMAL

FOR DIVISION USE ONLY			
	Forms		
Bond	OGD114	OGD121	
BB	7/13/13	7/10/13	

NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon ☒ / re-abandon ☐ well "Nwlbu" 8-3, API No. 037-06496,
(Check one)

Sec. 13, T. 4s, R. 13w, S.B. B.&M., Long Beach Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)
See Attachment

The total depth is: 6540 feet. The effective depth is: 5964 feet.

Present completion zone(s): see attachment (Name). Present zone pressure: N/A psi.

Oil or gas shows: see attachment (Name and depth) feet. Depth to base of fresh water: 2260 feet.

Top of uppermost hydrocarbon zone (which may be behind unperforated casing): see attachment (Depth of interval) feet.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes☒ No☐

The proposed work is as follows: (A complete program is preferred and may be attached.)
See Attachment.

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator			
C.R.G. Properties, Ltd			
Address: 2109 GUNDRY AVE.		City/State: SIGNAL HILL	Zip Code: 90755
Name of Person Filing Notice: MICK BEYER	Telephone Number: 562 989-6100	Signature: M. B	Date: 07-10-13
Individual to contact for technical questions: MICK BEYER	Telephone Number: 310 505-9787	E-Mail Address: Mbeyer@allencoca.com	

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

DOGGR RECEIVED JUL 10 2013 to Elon 7/10/13

OG108 (1/09)

CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
  (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  (B) Any airport runway.
(2) 100 feet of the following:
  (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  (B) Any navigable body of water or watercourse perennially covered by water;
  (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  (D) Any officially recognized wildlife preserve.

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

1967 Post-Window

13 3/8 4597#
cem 765'
350SX
17" hole

350sx x 1.18 =
413 cf
4' in csg .8812 cf/lf 3.52 ft
409 cf annulus

.6006 csg/hole
.8817 cf/lf

ETOC 84'

765'

8 5/8" 36#
cem 3986
400 SX / 472 cf
ETOC: 2843'
12 1/4 BIT

.3339 cf/lf
csg/hole = .4127

472 cf - 9.3 = 463 cf
cem in csg 28 lf
= 9 cf
463 cf / .4127 = 1121'

ETOC 2865

drilled thru 3139'

3986' WSO

15.5#

5 1/2" / 7 5/8" hole
cem 5964 - 3043
743 cf

perf 4393 WSO

7 5/8" HOLE

3043' WSO

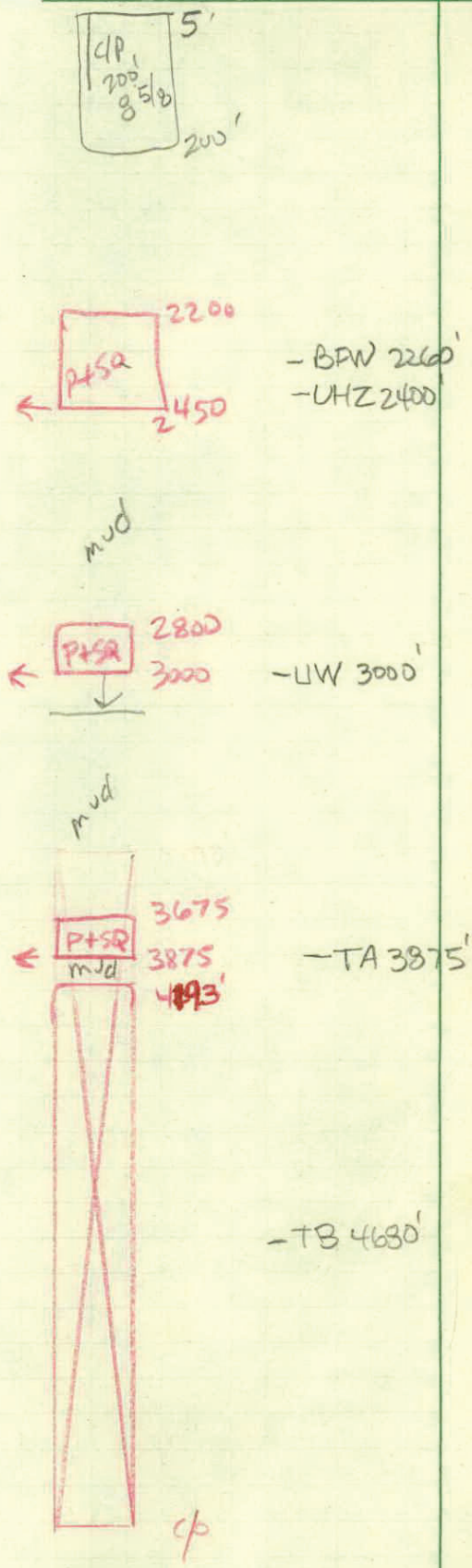
4393' CP

Perfs

5827'

5964'

TD 6540'



TOPS 35500

EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

C.R.G. Properties, Ltd. Well "Nwlbu" 8-3 (037-06496), Sec.13, Twn. 4S, Rge. 13W,S.B. B&M, Long Beach Oil Field.

According to Division records, the present condition of the well is as follows:

1. **Location:** West of Pacific Place just North of the 710 freeway on ramp. See map Exhibit A - Attachment II
2. **Accessibility:**
3. **Status:** Idle deserted
4. **Total Depth:** 6540' **Effective Depth:** 5964' **Elevation of Kelly Bushing (KB) above sea level:** 60'
5. **Casing: 13-3/8" 45.97#** casing cemented 765' with estimated top cement behind pipe at 84'+/-; **8-5/8" 36#** casing cemented 3986' with estimated top of cement behind pipe at 2865' +/-, drilled thru 3139'; **5-1/2" 15.5#** ld 3043' – 5964', cp 4393, estimated top of cement behind pipe at 3043, perforated from 4458' to 5827'.
6. **Tubing:** Unknown **Rods:** Unknown
7. **Base of Fresh Water (BFW):** 2260'
8. **Producing Zone(s):** Alamitos
9. **Hole Fluid:** Unknown
10. **Junk:** Unknown
11. **Plugs:** 6540' to 5964'.
12. **Comments:** Top of Brown zone 4680', top of Alamitos zone 3875', top of Wilbur zone 3000', and top of Upper Gas zone 2400'.

The following operations are necessary to plug and abandon the well:

1. A Notice of Intention to Abandon (form OG 108) is to be filed with this Division at least 10 days prior to commencing work. Work is not to begin until a Permit to Conduct Well Operations (Form OG 111) has been issued. All well operations are to be witnessed by a representative of this Division as directed in the Permit to Conduct Well Operations.

2. The abandonment contractor will review job safety programs (JSP) with all crewmembers prior to work startup and/or if conditions change. Monitor well for any leaking gas. Position gas monitors and ventilation fans, if warranted before moving in any other equipment or personnel.

3. Adequate blowout prevention equipment, as defined in Division's publication No. M07, shall be installed and maintained in operating condition at all times. The minimum requirements are:

   a. A 3M rod Reagan or equivalent BOPE for pulling rods and pump operations.
   b. A Class II3M, with hydraulic controls, during abandonment operations.
   c. A 3M lubricator for wire line operations.

4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs/cu ft and a minimum gel shear strength of 25 lbs. /100 sq. ft. All cement plugs are to have a minimum compressive strength of 1000 psi and maximum liquid permeability of 0.1 md. All depths noted are from the KB.

5. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.

EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

6. Kill well. Install and function test rod Reagan or equivalent BOPE. Pull out of the hole with rods and pump.

7. Remove rod Reagan. Install and function test Class II3M BOPE (function test BOPE each day thereafter).

8. Pull out all production tubing.

9. Use appropriate combination tools to clean out to 6540'.

10. Run in scraper. Scrape the 8 5/8" and the 5 ½" casings.

11. Run in hole with tubing (if tag high, clean out fill to 6540').

12. The well shall be plugged with cement from 6540' to 4193'

13. The well shall be plugged with cement from 3875' to 3675'.

14. The well shall be plugged with cement from 3043' to 2800'

15. Prior to shooting any perforations for braidenhead squeezes, a pressure test of the casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.

16. The 8-5/8" casing shall be perforated from 2440 to 2450'. Get an injection rate or a breakdown.

17. Sufficient cement shall be squeezed into the perforations to fill to 2190' outside the 8-5/8" casing.

18. The well shall be plugged with cement from 2450' to 2190'.

19. The 8-5/8" casing shall be perforated from 210 to 200'. Get an injection rate or a breakdown.

20. Sufficient cement shall be squeezed into the perforations to fill to surface.

21. The well shall be plugged with cement from 210' to surface.

22. The 13-3/8" X 17" annulus shall be plug with cement from 84' to surface.

23. All casing must be removed from between 5' and 10' below ground level.

24. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top of the outer casing.

25. Cellar, production pads and pipelines shall be removed and the resulting excavations filled with earth and compacted properly to prevent settling.

26. Remaining buried pipelines that cannot be removed shall be purged with clean water. Abandon line by pumping approved cement slurry mixture, weld steel cap on both ends of the line and bury.

EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

27. All equipment, casing, or junk that requires removal to implement restoration to lawful conditions shall be removed and properly disposed of in accordance with environmental laws and in accordance with instructions from the Division of Oil and Gas. All liquid wastes shall be removed and properly disposed.

28. A well History (Form OG 103) shall be filed in duplicate with the Division within 60 days of completing the work and must include a description of the removal or abandonment of the well flow line and any associated piping.

DEPARTMENT OF CONSERVATION
Division of Oil, Gas, and Geothermal Resources
5816 Corporate Avenue, Suite 200
Cypress, California 90630
Telephone (714) 816-6847
Facsimile (714) 816-6853

STATE OF CALIFORNIA

NATURAL RESOURCES AGENCY

DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REVISED

FORMAL ORDER TO: PLUG AND ABANDON WELLS & RESTORE LEASE CONDITIONS

NO. 1032

Dated: October 18, 2012

Operator: C.R.G. Properties, Ltd. (C0250)

BY

Tim Kustic

STATE OIL AND GAS SUPERVISOR

RESOURCES AGENCY OF CALIFORNI/
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or County		District
Long Beach		District 1 (Cypress, California)
Former owner		Date
Pacific Energy Res.	P0252	July 26, 2000

Well Name	API Number	Section Township Range
"Nwlbu" 5-2	037-00397	Sec. 13-4S-13W
"Nwlbu" 5-3	037-09796	Sec. 13-4S-13W
"Nwlbu" 5-4	037-09797	Sec. 13-4S-13W
"Nwlbu" 8-3	037-06496	Sec. 13-4S-13W
"Nwlbu" 8-4	037-06415	Sec. 13-4S-13W
"Nwlbu" 8-7	037-22512	Sec. 13-4S-13W
"Nwlbu" 9-2	037-13525	Sec. 13-4S-13W
"Nwlbu" 9-3	037-09791	Sec. 13-4S-13W
"Nwlbu" 9-4	037-00392	Sec. 13-4S-13W
"Nwlbu" 9-5	037-00142	Sec. 13-4S-13W
"Nwlbu" 9-6	037-00393	Sec. 13-4S-13W

Description of the land upon which the well (s) is (are) located.
See above

Date of transfer	New owner		Type of organization
May 9, 2000		C.R.G. Properties, Ltd. C0250	Corp./Ltd.
	Address:	15332 Antioch Street, Suite 338 Pacific Palisades, CA 90272	Telephone (310) 808-9071
Reported by	OG34A received 6/2/2000 signed by both parties		
Confirmed by	Same as above		
New operator new status **PA**	Designation of Agent Mark Pender		
Old operator new status **PA**	Remarks See operator file for C.R.G. Properties, Ltd. for details		

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor	Signature
PA – Producing Active	R. K. Baker	Floyd M. Leeson Operations Engineer
NPA- No potential, Active		
PI- Potential Inactive		
NPI-No potential, Inactive		
Ab-Abandoned or No More Wells		

cc: Update; Envir Dsk; File
Conservation Committee
Harold W. Bertholf, Inc.
LA County Assessor
Sacramento EDP
Cypress EDP

FORM AND RECORD CHECK LIST

Form or Record	Initials	Date	Form or Record	Initials	Date
Form OGD121	N/A		Map and Book		
Operator Card			Notice cancellations	N/A	
Well Records	SR	7/27/2000	Bond Status BB/FML	SR	7/26/2000
Log Records	SR	7/31/2000	EDP	SR	7/27/2000
Production Repts	N/A		Data Base	SR	7/27/2000

OGD156 12-2-98 Cypress

WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY ~~CORP~~ Resources
SEE OGD156 DATED 5-13-94

FORM OGD156 (5-80)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county	District
Long Beach	1
Former owner	**Date**
Sun Exploration & Production Co.	June 15, 1983

Name and location of well(s)

Sec. 13-4S-13W S.B.B.&M.

NWLBU 5-1 (037-09795)	NWLBU 8-1 (037-09792)	NWLBU 9-3 (037-09791)
NWLBU 5-2 (037-00397)	NWLBU 8-2 (037-09793)	NWLBU 9-4 (037-00392)
NWLBU 5-3 (037-09796)	NWLBU 8-3 (037-06496)	NWLBU 9-5 (037-00142)
NWLBU 5-4 (037-09797)	NWLBU 8-4 (037-06415)	NWLBU 9-6 (037-00393)
NWLBU 6-1 (037-09788)	NWLBU 8-7 (037-22512)	
NWLBU 6-2 (037-09789)	NWLBU 9-2 (037-13525)	

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange	New owner	Type of organization
May 1, 1983	Petro Resources, Inc.	Corp.
	Address: 4200 Easton Drive, Suite 16, Bakersfield, CA 94309	Telephone No. 805/323-4118

Reported by
Letter from Sun Exploration & Production Co. dated 5-16-83.

Confirmed by
Letter form Petro Resources, Inc., dated 5-18-83.

New operator new status (status abbreviation)	Request designation of agent
PA	Joe D. Rose, same address.
Old operator new status (status abbreviation)	**Remarks**
PA	

Deputy Supervisor	Signature
V. F. Gaede	Richard L. Manuel

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121	CP	7-7-83	Map and book	137	7/12/83
Form ODG140	NONE		Notice to be cancelled		
New well cards	CP	7-7-83	Bond status		
Well records	CP	7-7-83	EDP files Update		
Electric logs	CP	7-7-83	Conservation Committee		
Production reports			L. A. Assessors		

Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.

1-1-82, Form 156 dated 1-21-82. See ownership file.

FORM 137

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

Oct. 4, 1979

Mr. L. B. Carroll, Jr., Agent
Sun Oil Co.
23928 Lyons Ave.
Newhall, CA 91321

DEAR SIR:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R 13W, S.B B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

> "• • • The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

Old Designation	API	New Designation
"Oil Operators" 1	037-09792 (See)	NWLBU 8-1
" " 2	037-09793	NWLBU 8-2
" " 3	037-06496	NWLBU 8-3
" " 4	037-06415	NWLBU 8-4
"Pool" 1	037-09795	NWLBU 5-1
" 2	037-00397	NWLBU 5-2
" 3	037-09796	NWLBU 5-3
" 4	037-09797	NWLBU 5-4
"Amebco" 1	037-09788	NWLBU 6-1
" 2	037-09789	NWLBU 6-2
"Flood Control" 2	037-13525	NWLBU 9-2
" " 3	037-09791	NWLBU 9-3
" " 4	037-00392	NWLBU 9-4
" " 5	037-00142	NWLBU 9-5
" " 6	037-00393	NWLBU 9-6

Map 137 & Book pmc 11/2/79

M. G. Mefferd
~~JOHN F. MATTHEWS, JR.~~
State Oil and Gas Supervisor

RWS:sc

By Richard W. Stehl for
Acting *Deputy Supervisor*
R. A. Ybarra

cc: Update Center
EDP
Conservation Committee

57998-705 11-71 3M ① OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county: Long Beach	District: 1
Former owner: General Exploration Co.	Date: February 15, 1979

Name and location of well(s)

Sec. 11-4S-13W

"Dominguez" 2-10 (037-11859)

Sec. 13-4S-13W

"Amebco" 1 (037-09788)
"Amebco" 2 (037-09789)
"Flood Control" 2 (037-13525)
"Flood Control" 3 (037-09791)
"Flood Control" 4 (037-00392)
"Flood Control" 5 (037-00142)

Sec. 13-4S-13W

"Flood Control" 6 (037-00393)
"Oil Operators" 1 (037-09792)
"Oil Operators" 2 (037-09793)
"Oil Operators" 3 (037-06496)
"Oil Operators" 4 (037-06415)
"Pool" 1 (037-09795)
"Pool" 2 (037-00397)
"Pool" 3 (037-09796)
"Pool" 4 (037-09797)

Description of the land upon which the well(s) is (are) located

Sec. 14-4S-13W

"Dominguez" 1 (037-11858)

Date of transfer, sale, assignment, conveyance, or exchange: Dec. 1, 1978	New owner: Sun Oil Company Address: 23928 Lyons Avenue, Newhall, CA 91321	Type of organization: Corporation Telephone No

Reported by: Former operator

Confirmed by: New operator

New operator new status (status abbreviation): PA	Request designation of agent
Old operator new status (status abbreviation): AB	Remarks

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor: for M. B. Albright	Signature: Eleanor Rikki

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121			Map and book	PR	2-16-79
Form OGD148			Notice to be posted		
New well cards			Bond status		
Well records		✓	EDP [illegible]		
Electric logs			ara cc: EDP Update Conservation Committee Update Center		
Production reports					

OGD156 (12-77 GSR1-250)

DIVISION OF OIL AND GAS

CHECK T - RECORDS RECEIVED AND WELL STATUS

Company GENERAL EXPLORATION Co Well No. "OIL OPERATORS" 3

API No. 037-06496 Sec. 13, T. 4S, R. 13W, SB B.&M.

County LA Field LONG BEACH

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	5-27-77
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

STATUS		STATUS	
Producing - Oil	X	Water Disposal	
Idle - Oil		Water Flood	
Abandoned - Oil		Steam Flood	
Drilling - Idle		Fire Flood	
Abandoned - Dry Hole		Air Injection	
Producing - Gas		Gas Injection	
Idle - Gas		CO_2 Injection	
Abandoned - Gas		LPG Injection	
Gas-Open to Oil Zone		Observation	
Water Flood Source			

DATE 4-24-77

RECOMPLETED

REMARKS

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) ✓
2. Electric Log
3. Operator's Name
4. Signature
5. Well Designation
6. Location
7. Elevation
8. Notices
9. "T" Reports
10. Casing Record
11. Plugs
12. Surface Inspection
13. Production
14. E Well on Prod. Dir. Sur.

CLERICAL CHECK LIST

1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGD121
4. Form OG159 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

sent to LB Blueprint 6-3-77

BB

RECORDS NOT APPROVED

Reason:

RECORDS APPROVED RC

RELEASE BOND

Date Eligible 5-27-77

(Use date last needed records were received.)

MAP AND MAP BOOK NC

LONG BEACH OFFICE - USE REVERSE SIDE

OGD2 (3-77-GSR1-4M)

FORM 103

SUBMIT IN DUPLICATE

62802-705 5-72 20M ② OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR GENERAL EXPLORATION CO. FIELD NORTH LONG BEACH

~~037-06496~~ (037-06496)

Well No. OIL OPERATORS 3, Sec. 13, T. 4S, R. 13W, SB B. & M.

Date 5-25, 19 77 Signed Robert Graves
Production Superintendent

4021 N. PACIFIC LONG BEACH (Address) (Telephone Number) Title 213-636-1629 (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
4-16-77	Rigged up well servicing unit. Pulled rods & tubing. Ran bailer and tagged fill at 5870'. Installed BOP.
4-17-77	Ran Baker scraper and brushes in hole. Tested tubing to 5000psi. Rigged up Dresser Atlas. Ran correlation log and perforated 2 hpf as follows: 4740'-4765'; 4775' - 4707'; 4792' - 4810'.
4-18-77	Ran scraper through new perfs. Ran wash tool with retrievomatic packer to top of liner.
4-19-77	Washed perfs with acid mixture A. 10 gal/ft 15% BJ One shot (15% solvent) B. 15 gal/ft 12-3 4CL-HF One shot (10% Solvent) C. 10 gal/ft #1 Diesel Fuel containing 10% EGMBE Mutual Solvent
4-20-77	Continued washing perfs. Surged perfs with wash tool, pulled out, ran in hole with suction washer.
4-21-77	Suction washed perfs. Ran bailer, tagged fill at 5849!
4-22-77	Ran tubing and rods. Put well on production.
4-23-77	Well did not pump up.
4-24-77	Pulled rods and pump. Barrel unscrewed, ran new pump. Put well back on production.
	32.2 BOPD 25.7 BWPD 45.1% CUT

RECEIVED

MAY 27 12 45 PM '77

DIV. OF OIL AND GAS
LONG BEACH, CA.

FORM 103

SUBMIT IN DUPLICATE

62802-705 5-72 20M ③ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR GENERAL EXPLORATION CO. FIELD NORTH LONG BEACH

Well No. OIL OPERATORS #3, Sec. 13, T. 4S, R. 13W, SB B. & M.

Date 5-25, 19 77 Signed Robert Graves

4021 N. PACIFIC 213-636-1629 Title Production Superintendent
(Address) LONG BEACH (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

OIL OPERATORS 3 CONTINUED

Well condition at completion of work:

TD 1st hole; 5450': TD 2nd hole 5833' (redrilled from 3142' through 8 5/8" casing window 3139' - 3174'); TD 3rd hole, 6540' (redrilled from cem plug 5094')

Casing Detail:
13-3/8" C 765'
8-5/8" C 3139'
5-1/2" C 5964', top 3043' (lap wso), CP 4393'

Perfs 4394-95 wsd
4407'-4444'; 4458' - 4498'; 4563' - 4616';
4740'-4765'; 4775' - 4787'; 4792' - 4810';
5397'-5430'; 5692' - 5707'; 5711' - 5728';
5733'-5752'; 5794' - 5808'; 5812' - 5827'

RECEIVED

MAY 27 12 45 PM '77

DIV. OF OIL AND GAS
LONG BEACH, CA.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 176-432

Mr. R. L. Graves, Agent
GENERAL EXPLORATION CO.
4021 N. Pacific Place
Long Beach, CA 90806

Long Beach, Calif.
June 17, 1976

DEAR SIR:

Your proposal to rework Well No. "Oil Operators" 3 (037-06496), Section 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County, dated 4/15/76, received 6/15/76, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment with a minimum 2000 psi working pressure shall be installed and maintained in operating condition during all stages of perforating.

2. Well records, under Sec. 3215 of the Public Resources Code, are received 60 days after recompletion of the well.

RFC:dr

Blanket Bond

5/25/77
Graves/Crowder
Work done history
will be filed

HAROLD W. BERTHOLF,
~~JOHN F. MATTHEWS, Jr.~~, State Oil and Gas Supervisor

By M.B. Albright, Deputy

25476-705 7-74 50M ⓓD OSP
OG 111

STATE OF CALIFORNIA

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Long Beach, California May 4, 1976

Mr. Robert L. Graves, Agent
General Exploration Co.
4021 N. Pacific Place
Long Beach, CA 90806

Gentlemen:
Dear Sir:

I have received your ~~notice dated~~ notices dated April 15, 1976, of

notice of intention to rework Well Nos "Pool" 2 & "Oil Operators" 3

Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach field.

Your notices to rework cannot be considered until a surety bond in the sum of $5,000.00 has been filed for each well. Operations should not be started until the approval of this Division has been received. This will ensure that you have notice of our requirements.

The notices are being returned to you for signatures. Please return these signed notices with the bond.

HAROLD W. BERTHOLF
State Oil and Gas Supervisor

By M. B. Arwight
Deputy Supervisor

ag
Enc.
(2nd request 6-3-76)

OG113 (12-73-GSR1-1M)

FORM 107

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Long Beach Calif. April 15 1976

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. "Oil Operators" 3
(Cross out unnecessary words)

Lease, Sec. 13, T. 4S, R. 13 W, SB B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. - 6540' PBTD - 5964'

2. Complete casing record, including plugs:

13 3/8" c 765'
8 5/8" c 3139' (Milled for Window)
5 1/2", 15.5#, J-55 c 3043' to 5964'
Perfs 4394-95 (WSO); 4407'-4444'; 4458-4498'; 4562'-4616'; 5397'-5430'; 5692'-5707'; 5711'-5728'; 5733'-5752'; 5794'-5808'; 5812-5827'

3. Last produced. 4/15/76 (Date) 9.2 (Oil, B/D) 14.9 (Water, B/D) — (Gas, Mcf/D)

The proposed work is as follows:

1. Pull Pump, Rods, & Tubing
2. Perforate following intervals
   4740'-4765'
   4775'-4787'
   4792'-4810'
3. Return well to production

Rework

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			B	✓	✓

4821 Pacific Place
(Address) Long Beach
213-424-8025
(Telephone No.)

General Exploration Co
(Name of Operator)

By Robert Graves

48086-705 11-70 15M OSP

RECEIVED
JUN 15 12 10 PM '76
DIV. OF OIL AND GAS
LONG BEACH, CA.

RECEIVED
MAY 4 11 21 AM '76
DIV. OF OIL AND GAS
LONG BEACH, CA.

WORK PERFORMED:

Drill_____ Redrill_____ Deepen_____

Plug_____ Alter casing ✓

Water flood_____ Water disposal_____

Abandon_____

Other_____

STATUS: (Date)

Producing_____

Recomp. prod. ✓ 6-13-68

Water flood_____

Water disposal_____

Abandoned_____

Other_____

MAP AND BOOK NC

RECORDS FILED & DATE: Clerk Lou

Summary (dup.)_____

Log & Core (dup.)_____

History (dup.) 7/3/68

E-log_____

Radio log_____

D. Survey_____

Other_____

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Location_____ Notice states_____

Elevation_____ Notice states_____

Production Reports_____

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

If stimulation or disposal well:
Form 121_____ Folder_____

RECORDS & REQUIREMENTS CHECKED: Eng. WN

✓

Surface inspection —

Data needed none

Clerk:

Request records —

F 170__

Correct records —
(Specify)

F 165__
165A__

CARDS NC

BOND: No Bond required

Hold__ Reason_____

Release__ Date elig._____

F 150b__

End premium year____
Release requested____ (Check)
Bond superseded____ (one)
Well abandoned____

FINAL LETTER and FILE CLEARED

F 159__

F 121__

Form 19-A

FORM 103 SUBMIT IN DUPLICATE Δ OSP 18

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Co. of Calif. FIELD Long Beach

Well No. "Oil Operators" 3, Sec. 13, T. 4S, R. 13W, SB B. & M.

Date July 2, 1968 Signed R. S. Ballantyne Jr.
R. S. Ballantyne, Jr.
417 S. Hill Street
Los Angeles, 90013 628-2156 Title Vice President
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date 1968	
4/30	Pumped 34 bbl. net 24.3° oil and 2 bbl. water with 60 Mcf gas.
5/1	Blew down gas off well. Moved in production unit and pulled rods and tubing. Ran bailer and found fill at 4875'. Bailed sticky mud to 5890'. Installed B.O.P.E.
5/2	With bailer found fluid level at 3030' and bottom at 5890'. Pumped 100 bbl. salt water into casing - equivalent to 1700' inside the 8-5/8" casing. McCullough jet perforated (omega jets) three holes per foot 5827-5812' and 5808-5794' sticking the second gun. While working gun loose, fluid surfaced and pressure built up to 900# on lubricator before recovering gun. Closed off preventor, removed lubricator and tubing stripper, and installed blank flange on top of preventor. Installed needle bean in flow line from 2" outlet in casing head. Flowed 27 net bbl. oil in 19 hrs. on 14/64" bean, 640 Mcfd. 860#.
5/3	840 Mcf, 770#, 15/64". Laid down tubing and rods. Moved out pulling unit.
5/4-6/9	Well flowed gas with occasional slugs of oil which increased in volume as the pressure declined. The well was practically dead 6/9 and salt water was pumped into the well. During the interval from 5/2 to 6/9 the well produced 235 net bbl. of 25.0° oil and 17,000 Mcf. gas. There was no appreciable cut.
6/10-11	Pumped salt water into well at intervals. Well dead.
6/12-13	Moved in production unit. Rigged up bailing gate above B.O.P.E. Continued pumping water into casing as required to keep hole nearly full throughout this operation. Ran bailer and located fill at 5885'. Rigged up lubricator and McCullough reperforated two holes per foot: 5752-5733', 5728-5712' and 5707-5692', and perforated three holes per foot: 5430-5397'. Omega jets in 4" steel carrier were used throughout. Ran pump on 2-7/8" tubing to 4312' with gas anchor extending to 4348'. Ran rods. Moved out unit.
6/13	Well pumped water and 50 bbl. oil in 16 hrs with casing pressure building to 90#.
6/17	Pumped 29 bbl. oil and 26 bbl. water, 20#/300-540#.
6/22	Pumped 11 bbl. oil and 8 bbl. water, 20#/120-130#, 315 Mcf.
6/27	Pumped 22 bbl. oil and 6 bbl. water, 20#/110-120#, 296 Mcf.

DIVISION OF OIL AND
RECEIVED
JUL 3 1968
INGLEWOOD, CALIFORNIA

WELL CONDITION AT COMPLETION OF WORK:

TD 1st hole 5450', TD 2nd hole 5833' (redrilled from 3142' through 8-5/8" casing window 3139-3174'), TD 3rd hole 6540' (redrilled from cem. plug 5094').

CASING CONDITION:
13-3/8" C 765'
8-5/8" C 3139'
5-1/2" C 5964', top 3043' (lap WSO), CP 4393'. Perfs. 4393-4394' (WSO), 4407-4444', 4458-4498', 4562-4616', 5397-5430', 5692-5707', 5711-5728',

FORM 103

SUBMIT IN DUPLICATE

Δ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Co. of Cal. FIELD Long Beach

Well No. "Oil Operators" 3, Sec. 13, T. 4S, R. 13W, SB B. & M.

Date July 2, 1968 Signed R. S. Ballantyne, Jr.

417 S. Hill Street
Los Angeles, 90013 628-2156 Title Vice President

(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

5733-5752', 5794-5808' and 5812-5827'. Plug 5964-5922' w/cem. and 5922-5890' w/sand.

Sidetracked:
8-5/8" C 3986', top 3174'. Plug 3174' (and open hole up to 3142')
5-1/2" C 5446', top 3928' (lap WSO). Bad 4195 and 5107', plgd.
Perf. & plgd. 4080-4158', 4190-4205', 4852-4950', 5140-5180', 5190-5200' and 5306-5355'. Plug 3928'.

DIVISION OF OIL AND
RECEIVED
JUL 3 1968
INGLEWOOD, CALIFORNIA

FORM 111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 168-562

Mr. C. G. Willis
417 So. Hill Street
Los Angeles, California 90013

Inglewood, Calif.
April 30, 1968

Agent for GENERAL EXPLORATION COMPANY OF CALIFORNIA

DEAR SIR:

Your proposal to alter casing Well No. "Oil Operators" 3 (037-06496), Section 13, T. 4 S, R. 13 W S.B. B. & M., Long Beach Field, Los Angeles County, dated Apr. 25, 1968, received Apr. 26, 1968, has been examined in conjunction with records filed in this office.

~~Present conditions as shown by the records and the proposal are as follows:~~
RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
5-1/2" cp 4393'. TD 1st hole 5450', TD 2nd hole 5833'.

With reference to your proposal our decision is as follows:

DECISION
THE PROPOSAL IS APPROVED.

WLI:nw

cc Company

No Bond Required

W/S

F. E. KASLINE
~~E. R. MURRAY-AARON~~, State Oil and Gas Supervisor

By _____, Deputy

75567-705 7-66 50M ① △ OSP

FORM 107

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS RECEIVED
APR 26 1968
INGLEWOOD, CALIFORNIA

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Los Angeles, Calif. April 25, 1968

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. "Oil Operators" 3 (037-06496)
(Cross out unnecessary words)

, Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 6540'.

2. Complete casing record, including plugs:

(Depths from present KB of 60')
13-3/8" C 765'
8-5/8" C 3139'
5-1/2" C 5964', top 3043' (lap WSO). Perfs. 4393-4394' (WSO), 4407-4444', 4458-4498', 4562-4616', 5692-5707', 5711-5728' and 5733-5752'.

Sidetracked:
8-5/8" C 3986', top 3174'. Plug 3174' (and open hole up to 3142')
5-1/2" C 5446', top 3928' (lap WSO). Bad 4195 and 5107', plgd. Perf. & plgd. 4080-4158', 4190-4205', 4852-4950', 5140-5180', 5190-5200' and 5306-5355'. Plug 3928'.

3. Last produced. 4/25/68 (Date) 34 (Oil, B/D) 2 (Water, B/D) 60 (Gas Mcf/D)

The proposed work is as follows:
1. Take well off production.
2. Starting May 1, 1968, pull rods and tubing.
3. Rig up B.O.P.E. and lubricator and pump 100 bbl. of salt water into casing.
4. Perforate 5397-5430', 5794-5808' and 5812-5827'. Reperforate 5692-5707', 5712-5728' and 5733-5752'.
5. Return well to production.

Alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			~~X~~	ARG	ARG

no

417 S. Hill St., Los Angeles 90013
(Address)

628-2156
(Telephone No.)

GENERAL EXPLORATION COMPANY OF CALIFORNIA
(Name of Operator)

By R. S. Ballantyne, Jr., Vice President

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

20501-705 4-64 15M ② OSP

WORK PERFORMED:

Drill_____ Redrill ✓ Deepen_____

Plug_____ Alter casing_____

Water flood_____ Water disposal_____

Abandon_____

Other_____

STATUS: (Date)

Producing_____

Recomp. prod. ✓ 7-28-67

Water flood_____

Water disposal_____

Abandoned_____

Other_____

MAP AND BOOK NC

RECORDS FILED & DATE: Clerk M.T.

Summary (dup.)_____

✓ Log & Core (dup.) 8/3/67

✓ History (dup.) 8/3/67

✓ E-log (2 copies) 3138'—6536' 8/3/67

Radio log_____

D. Survey_____

Other_____

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Location_____ Notice states_____

Elevation_____ Notice states_____

Production Reports_____

Dated 8-4-67 [illegible]

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

If stimulation or disposal well:
Form 121_____ Folder_____

RECORDS & REQUIREMENTS CHECKED: Eng. WJR

✓

✓

✓

Surface inspection —

Data needed none

Clerk:

Request records —

F 170__

Correct records —
(Specify)

F 165__
165A__

CARDS NC

BOND: No. 141161 dated 6-27-67

Hold__ Reason_____

Release ✓ Date elig. 10-17-67

F 150b [illegible]

End premium year ✓
Release requested____ (Check)
Bond superseded_____ (one)
Well abandoned_____

FINAL LETTER and FILE CLEARED

F 159__

F 121__

Form 19-A

FORM 103

SUBMIT IN DUPLICATE

26535-705 7-64 25M △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Company of California FIELD Long Beach

Well No. "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.

Date July 31, 1967 Signed R. S. Ballantyne, Jr.

417 South Hill St., Los Angeles 90013 628-2156 Title Vice President
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1967	Note: Depth measurements taken from present K.B. elevation of 60' which is 6' higher than original datum. Ground elevation is 48'.
6/30	Moved in, rigged up drilling equipment, pulled and laid down tubing, installed B.O.P.E. (Graham Drilling Company).
7/1-2	Ran 7-5/8" bit and made up 3-1/2" drill pipe. Found top of 5-1/2" liner at 3932'. Ran Servco section mill, located casing collars at 3190', 3145' and 3101', milled section in 8-5/8" casing from 3139' to 3174'. Opened window to 12-3/4". Ran 284' of 2-3/8" tubing stinger on drill pipe. Cleaned out sand inside 5-1/2" liner to 4165'. Laid 30-sack class G cement plug with 2% $CaCl_2$ from 4147'. (Estimated top of plug at 3908'.) Laid 70-sack class G plus 20% sand with 0.5% CFR-2 from 3233' with rotating tubing scratchers opposite window. Pulled to 2850' and circulated pipe clean. Held 1200# for 5 minutes - no pressure drop. Found top of cement at 3077' and cleaned out to 3142'.
7/3-13	Drilled 7-5/8" hole to 5833'. 5" Dynadrills were used as follows: 3142-3240', 4257-4378' and 4487-4575'. The interval 4468-4487' was cored.
7/13	Ran Schlumberger I.E.S. 5833-3139' and C.D.M. 5833-3700'. Laid 182 CF (160 sacks class G, 30 sacks sand, 5 sacks salt, 0.5% CFR-2) plug through 461' stinger of tubing on drill pipe from 5460'.
7/14	Ran 7-5/8" bit and hit bridge at 4135', cleaned out to 4174' and lost circulation. Pulled up inside 8-5/8" casing to 3123' and regained circulation. Ran to top of cement at 4997' and cleaned out to 5012' without circulation. Pulled up again to 3123' and introduced rubber and fibrous lost circulation material into mud system. Regained circulation and ran to 5012' circulating in stages. Drilled out cement to 5094' with full returns.
7/15-18	Drilled 7-5/8" hole to 6008'. A 5" Dynadrill was used from 5094' to 5147'. Ran Schlumberger I.E.S. 6008-4850'.
7/18-20	Drilled 7-5/8" hole to 6540' (T.D.). Ran Schlumberger I.E.S. 6540-6008'.
7/20	Ran to T.D. and conditioned mud. Ran 76 joints of 5-1/2", 15.5#, J-55 liner with Burns liner hanger (2921', including hanger) on 3-1/2" drill pipe. With liner hanging at 5964', (top at 3043') cemented with 743 C.F. 1:1 class G cement pozmix slurry with 2% gel and 0.5% CFR-2 and 10% salt in mix water. 500 gal. mud flush and 20 C.F. water preceded the slurry. Displaced with 530 CF mud (509 CF estimated) and plug was not observed to hit baffle. Pulled stinger up to 2980' and backscuttled 180 CF (127 CF in drill pipe) without cement returns.

DIVISION OF OIL AND GAS
RECEIVED
AUG 3 1967
INGLEWOOD, CALIFORNIA

FORM 103

SUBMIT IN DUPLICATE

26535-705 7-64 25M △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Company of California FIELD Long Beach

Well No. "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.

Date July 31, 19 67 Signed R. S. Ballantyne, Jr.

417 South Hill St., Los Angeles 90013 628-2156 Title Vice President

(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
7/21	Ran 7-5/8" bit and 8-5/8" casing scraper. Encountered 10' soft cement bridge at 1000' and drilled out same. Pushed plug to top of hard cement at 2832'. Drilled out cement to top of liner at 3043'. Conditioned mud and held 1380# on casing for 5 minutes. Ran 4-3/4" bit and 5-1/2" casing scraper. Drilled out cement inside liner from 3043' to 3083'. Ran to 5922', top of float collar, pushing something (probably rubber liner wiper plug) ahead the last 1000'. Conditioned mud and held 1530# on casing for 5 minutes.
7/22	Ran Cook tester on drill pipe and set packer at 3009' with tail to 3022'. Open 1 hour. 2 minute initial light blow and dead thereafter Recovered net rise of 45' drilling fluid. Lap test approved by D.O.G. Ran McCullough gamma-bond cement log 5910-3900' and perforated four 1/2" jet holes 4394-4393'. Ran Cook tester on 1411' of 2-7/8" tubing below drill pipe. Set packer at 4366' with tail piece to 4377'. Open 1 hour. Medium, slightly diminishing blow throughout test. Recovered 1470' slightly muddy water down to salty (476 g/g) water.
7/23	Ran Baker shoe squeeze tool on tubing and set packer at 4094' with tail to 4187'. Broke down formation with 3500# and squeezed 33 sacks of 50 sacks class G cement mixed at a final pressure of 3000# through perforations. Found top of cement at 4243' and drilled out cement running out of it at 4425'. Perforated four 1/2" jet holes 4394-4395' with McCullough steel carrier. Ran Cook tester on tubing/drill pipe and set packer at 4366' with tail to 4377'. Open 1 hour-initial 2 minute weak blow and dead thereafter. Recovered a rise of 40' drilling fluid. W.S.O. approved by D.O.G.
7/24	Ran 4-3/4" bit to 5922' and changed mud over to 67# salt water. Laid down 3-1/2" drill pipe. Ran McCullough 4" jet carrier and perforated four 1/2" jet holes per foot as follows: 5752-5733', 5728-5711' and 5707-5692.
7/25	Ran Guiberson packer on combination string of 2-7/8" tubing and set with bottom of packer at 4337'. Removed B.O.P.E. and rigged up surface equipment. Swabbed well and when pulling from 2200' the sand line pulled out of socket and swab dropped. Opened valve in packer and equalized fluid. Ran overshot but could not recover swab. Installed B.O.P.E., pulled and broached tubing. Recovered swab on bottom.
7/26	Re-ran Guiberson packer as above. Swabbed well working down to 4000'. After swabbing 67 bbl. of water with trace of oil and with well gassing, placed on a 22/64" bean at 9:00 p.m.
7/27	Rigged up lubricator and McCullough perforated four holes per foot with 2-1/8" JRL Ceram-jets as follows: 4616-4562', 4498-4458' and 4444-4407'. Completed perforating at 10:00 p.m.

FORM 103

SUBMIT IN DUPLICATE

26535-705 7-64 25M △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR General Exploration Company of California FIELD Long Beach

Well No. "Oil Operators" 3, Sec. 13, T. 4 S, R. 13 W, S.B. B. & M.

Date July 31, 1967 Signed R. S. Ballantyne, Jr.

417 South Hill St., Los Angeles 90013 Title Vice President
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

7/28 Moved out drilling equipment. Flowed 94 bbl. 25.3° oil, 4.0%, 140#/pkr., 570 Mcf.
7/30 103 bbl. 25.2°, 6.5%, 120#/pkr., 555 Mcf.

Casing Record at Completion of Work:
(Depths from present KB of 60') T.D. 6540
13-3/8" C 765'
8-5/8" C 3139'
5-1/2" C 5964', top 3043' (lap WSO). Perfs. 4393-4394' (WSO), 4407-4444', 4458-4498', 4562-4616', 5692-5707', 5711-5728' and 5733-5752'.

Sidetracked:
8-5/8" C 3986', top 3174'. Plug 3174' (and open hole up to 3142')
5-1/2" C 5446', top 3928' (lap WSO). Bad 4195 and 5107', plgd.
Perf. & plgd. 4080-4158', 4190-4205', 4852-4950', 5140-5180', 5190-5200' and 5306-5355'. Plug 3928'.

Orig abandoned well

FORM 101
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator General Exploration Company of Calif. Field Long Beach

Well No. "Oil Operators" #3 Redrill Sec. 13, T. 4S, R. 13W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
					CORE #1
4468'	4487'	21'		12.5	Oil sand, unbroken, firm to soft, mostly fine to medium fine poorly sorted. Locally finely pebbly, light brown with grayish cast on broken surfaces light gold to medium buff fluorescence, pepper and salt on broken surfaces (mud penetration?). In top 0.2' two 1/16" ribbons gray sand at 50-55° under gray spot with pebbles. No fluorescence. Probably related to turbidity bedding. At 4.0', one 1/64" ribbon of non-fluorescent clay at about 40°, could be bedding parting. Dip not reliable. (No samples taken)
				12.5	

DIVISION OF OIL AND GAS
RECEIVED
AUG 3 1967
INGLEWOOD, CALIFORNIA

FORM 109-A

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 167-670

Mr. C. G. Willis
417 S. Hill Street
Los Angeles, California 90013

Inglewood, Calif.
July 27, 1967

Agent for GENERAL EXPLORATION CO. OF CALIF.

DEAR SIR: (037-06496)

Your well No. "Oil Operators" 3, Sec. 13, T. 4 S, R. 13 W, S.B.B & M. Long Beach Field, in Los Angeles County, was tested for water shut-off on July 23, 1967. Mr. S. Cordova, Engineer, designated by the supervisor was present from 8:30 p.m. to 9:30 p.m. as prescribed by law; there were also present J. Dedmon, Drilling Foreman & R. Morgan, Driller

Shut-off data: 5-1/2 in. 15.5 lb. casing was recemented through perforations at 4393 ft. on July 23, 1967 in 7-5/8 in. hole with 50 ~~sacks~~ sacks of cement of which 33 sacks was squeezed away under a final pressure of 3000 Psi calculated to fill behind casing to ------ ft. below surface.

Casing record of well: 13-3/8" cem. 765'; 8-5/8" cem. 3986', window 3139'-3174', sidetracked @ 3142'; 5-1/2" cem. 3043'-5964', cp 4393', perf. 4393' WSO. TD 1st ~~hole~~ hole 5450'. TD 2nd hole 5833'.

Present depth 6540 ft. cmt. bridge 5964 ft. to 5922 ft. Cleaned out cmt. 4243 ft. to 4425 ft. for test. A Cook tester was run into the hole on 2-7/8 in. ~~tail pipe~~ tubing, with ---- ft. of water-mud cushion, and packer --set at 4366 ft. with tailpiece to 4377 ft. Tester valve, with 5/8 in. bean, was open for 1 hr. and ----- min. During this interval there was a weak blow for 2 minutes & no blow thereafter.

Mr. ---------- reported:

MR. S. CORDOVA, ENGINEER, WAS PRESENT AT THE WELL FROM 5:00 P.M. TO 6:00 P.M. ON JULY 22, 1967 AND MR. L. STANDER REPORTED THAT the 5-1/2" casing was jet-perforated with four, 1/2" holes at 4393' for the water shut-off test.
THE ENGINEER NOTED THAT when the tubing was removed, 1470' of watery drilling fluid and salt water was found above the tester.

MR. S. CORDOVA, ENGINEER, WAS PRESENT AT THE WELL FROM 8:30 P.M. TO 9:30 P.M. ON JULY 23, 1967 AND MR. DEDMON REPORTED:
1. The 5-1/2" casing was recemented as noted above.
2. The 5-1/2" casing was jet-perforated with four, 1/2" holes at 4393'.

THE ENGINEER NOTED:
1. When the tubing was removed, 40' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE 5-1/2" SHUT-OFF AT 4393' IS APPROVED.

SC:nw

cc Company

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By [signature] Deputy

26536-705 7-64 20M ② OSP

FORM 109-D

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 167-669

Mr. C. G. Willis
417 S. Hill Street
Los Angeles, California 90013
Agent for GENERAL EXPLORATION CO. OF CALIF.

Inglewood, Calif.
July 27, 1967

DEAR SIR: (037-06496)

Operations at well No. "Oil Operators" 3, Sec. 13, T. 4 S, R. 13 W, S.B. B & M. Long Beach Field, in Los Angeles County, were witnessed on July 22, 1967. Mr. S. Cordova, Engineer, representative of the supervisor was present from 7:30 a.m. to 8:20 a.m. There were also present R. Ballantyne, Engineer & J. Dedmon, Drilling Foreman

Present condition of well: 13-3/8" cem. 765'; 8-5/8" cem. 3986' window 3139'-3174', side-tracked @ 3142'; 5-1/2" cem. 3043'-5964'. TD 6540'. TD 1st hole 5450'. TD 2nd hole 5833'.

The operations were performed for the purpose of demonstrating the effectiveness of the seal between the 8-5/8" and 5-1/2" casings.

Mr. Ballantyne reported:

1. A window was milled in the 8-5/8" casing from 3139' to 3174', and the hole was opened to 12-3/4" in that interval.
2. Sand fill was cleaned out of the 5-1/2" casing to 4165'.
3. On July 2, 1967, 30 sacks of cement was pumped into the hole through drill pipe and tubing hanging at 4147', calculated to fill to 3908'.
4. On July 2, 1967, 70 sacks of cement mixed with 20% sand was pumped into the hole through drill pipe and tubing hanging at 3233'.
5. Cement was drilled out of the hole from 3077' to 3142'.
6. A 7-5/8" hole was redrilled from 3142' to 5833'.
7. On July 13, 1967, 160 sacks of cement mixed with 20% sand was pumped into the hole through drill pipe and tubing hanging at 5460'.
8. Cement was drilled out of the hole from 4997' to 5094'.
9. A 7-5/8" hole was redrilled from 5094' to 6540'.
10. On July 20, 1967, 5-1/2", 15.5 lb. casing was cemented from 3043' to 5964' with 743 cubic feet of cement slurry (1:1 pozmix, 2% gel).
11. Cement was drilled out of the 8-5/8" casing to 3043' and the 5-1/2" casing was cleaned out to 5922'.
12. A Cook tester was run into the hole on 3-1/2" drill pipe and packer set at 3009', with tailpiece to 3020'.
13. The tester valve with 5/8" bean was open for 1 hr. During this interval there was a weak blow for 2 minutes and no blow thereafter.

THE ENGINEER NOTED:

1. When the drill pipe was removed, 45' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED and indicate that no fluid has access to the well from the annulus between the 8-5/8" and 5-1/2" casings.

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By [signature] Deputy

SC:nw
cc Company

8/21

90947-705 3-67 15M ② OSP

FORM 111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 167-705

Mr. C. G. Willis
417 S. Hill Street
Los Angeles, California 90013
Agent for GENERAL EXPLORATION CO. OF CALIF.

Inglewood, Calif.
July 5, 1967

DEAR SIR:

(037-06496)

Your proposal to redrill Well No. "Oil Operators" 3, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated June 27, 1967 received June 29, 1967 has been examined in conjunction with records filed in this office. Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth. 5450
2. Complete casing record, including plugs:
   13-3/8" C 765'
   8-5/8" C 3986' WSO
   5-1/2" C 5446', top 3928', WSO on splice. Bad 4195 & 5107', plgd.
   perf. & plgd. 4190-4205', 4852-4950', 5140-5180',
   5190-5200', 5306-5355'.
   Plug 4159'. Perf. 4080-4158'.
3. Last produced.

(Date)	(Oil, B/D)	(Water, B/D)	(Gas)
12/12/66	10	182	-

PROPOSAL

"The proposed work is as follows:

1. Move in drilling equipment, pull tubing, install BOPE and fill hole with mud.
2. Mill out 30-foot section of 8-5/8" casing near 3100', underream the window to 12-3/4" lay cement plug from 4150' to 3900' (sufficient to cover perforations without having to wait and feel for top) and another plug from 100' below section back above top of window and level off plug 2' into section.
3. Sidetrack cased hole through section and drill 7-5/8" hole to approximaely 5900'.
4. Run and cement 5-1/2" liner, effect. W.S.O. at lap of 8-5/8" casing and above productive horizon.
5. Complete well."

DECISION

THE PROPOSAL IS APPROVED PROVIDED:

1. Fluid consistent with good drilling practice shall be used, and the column of fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   a. A test, after cleaning out below the top of the liner to demonstrate that no fluid has access to the well from the annulus between the 8-5/8" and 5-1/2" casings.
   b. A test of the effectiveness of the 5-1/2" shut-off above the zone to be produced.

WLI:nw
cc Company

Bond No. 1411161
Dated 6-27-67

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By [signature], Deputy

①T OSP

DIVISION OF OIL AND GAS
RECEIVED
JUN 29 1967
INGLEWOOD, CALIFORNIA

FORM 107

STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Los Angeles, Calif. June 27, 1967

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening~~ redrilling, ~~plugging or altering casing~~ at Well No. "Oil Operators" 3 (037-06496)
(Cross out unnecessary words)

, Sec. 13, T. 4 S, R. 13 W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 5450

2. Complete casing record, including plugs:

13-3/8" C 765'
8-5/8" C 3986' WSO
5-1/2" C 5446', top 3928', WSO on splice. Bad 4195 & 5107', plgd.
Perf. & plgd. 4190-4205', 4852-4950', 5140-5180',
5190-5200', 5306-5355'.
Plug 4159'. Perf. 4080-4158'.

3. Last produced. 12/12/66 (Date) 10 (Oil, B/D) 182 (Water, B/D) - (Gas)

The proposed work is as follows:

1. Move in drilling equipment, pull tubing, install BOPE and fill hole with mud.
2. Mill out 30-foot section of 8-5/8" casing near 3100', underream the window to 12-3/4" lay cement plug from 4150' to 3900' (sufficient to cover perforations without having to wait and feel for top) and another plug from 100' below section back above top of window and level off plug 2' into section.
3. Sidetrack cased hole through section and drill 7-5/8" hole to approximately 5900'.
4. Run and cement 5½" liner, effect W.S.O. at lap of 8-5/8" casing and above productive horizon.
5. Complete well.

Redrill

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			#1411161 6-27-67	ab	ab

417 S. Hill Street, Los Angeles
(Address)

628-2156
(Telephone No.)

GENERAL EXPLORATION COMPANY OF CALIFORNIA
(Name of Operator)

By R. S. Ballantyne, Vice President

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 156

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach — District: 1

Former Owner: Union Oil Co. of California — Date: January 17, 1961

Description of Property: Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961
New Owner: General Exploration Co. of California
Address: 730 Subway Terminal Building, 417 South Hill Street, Los Angeles 13, Calif.

Telephone No.

Type of Organization: Corporation
Reported by: Union Oil Co. of California (Letter of January 6, 1961)
Confirmed by: General Exploration Co. of California (Letter of January 11, 1961)
New Operator New Status: PA, Old Operator New Status: PA
Request designation of agent: No

Remarks:

eb
CC- Mr. E. H. Hasser
Prod. Dept.
Conservation Committee

Wm. C. Bailey
Deputy Supervisor

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
NOTE—If Transfer Does Not Change Overall Status Enter "No Change"

96785 4-59 4500 SPO

Form 10

CLERK

Date Received 1-13-60 Form 100 ____ 101 ____ 103 ____

Elec. Log ____ Radio Log ____

Direct. Surv. ____ Other Data History

Location ____

____

Elevation ____ Clerk Scott

Prod. Repts. ____ Clerk ____

COMPLETED PRODUCING ON 12-10-59 ENGINEER

ABANDONED ON ____

BOND Blanket Release ____ Date Elig. ____ 150b ____

End Prem. year ____ Release Requested ____ Superseded ____

Aband. ____

HOLD BOND ____ Reason ____

____

Data Needed ____

____ Final Letter ____ Eng. RC

RECEIPT FOR

____ New Well Records

____ Subsequent Work

Well Summary (100) ____

Drillers Log (101) ____

Core Record (101) ____

History (103) ✓

Elec.Log ____

Other ____

____

Redrill ____

Deepen ____

Plug ____

Alter Csg. ✓

Abandon ____

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

(20) DIVISION OF OIL AND GAS RECEIVED JAN 1 2 1960 INGLEWOOD, CALIFORNIA

13

UNION OIL COMPANY of Calif

History of Oil or Gas Well

REPAIR REPORT

WELL NO. "Oil Operators" #3

Long Beach (FIELD)

Los Angeles (COUNTY)

SEC. 13, T. 4-S, R. 13-W S.B. B. & M.

Prod. Hoist - Contract (TOOLS)

December 7, 1959 (PERIOD ENDING)

CASING RECORD

See below

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1959	DEPTH	EFFECTIVE DEPTH	REMARKS
				CHARGE: BR-AFE 59359 Job 540 PROPOSED WORK: Add perforations in the Alamitos Zone. PRODUCTION BEFORE WORK: Idle ZERO POINT FOR THIS JOB: 9.1' above concrete pad.
				CASING RECORD AT START OF WORK: TD 4076' : Dpnd 5450' : Plug 4985' 13-3/8" C 765' 8-5/8" C 3986' WSO ~~1161' 6-5/8" H-4075' inc. 89' pfs.~~ Pulled. 1518' 5-1/2" F & C 5446'. Bad 4195 & 5107'. WSO test on splice OK. Bullet pf 4190-4205, 4852-4950'. " " & plgd ~~5140-5180, 5190-5200, 5306-5355'~~.
				CASING RECORD AT COMPLETION OF WORK: TD 4076' : Dpnd 5450' : Plug 4159' 13-3/8" C 765' 8-5/8" C 3986' WSO ~~1161' 6-5/8" H-4075' incl. 89' pf.~~ Pulled 1518' 5½" F & C 5446'. ~~Bad 4195 & 5107'~~ Plgd. WSO test on splice OK. Bullet pf & plgd ~~4190-4205, 4852-4950'~~ ~~5140-5180, 5190-5200, 5306-5355'~~. Bullet pf 4080-4158'.
1	12-2	Dpnd 5450	Plug 4985	Contractor moved in and rigged up. Pulled rods and pump. Dia-Loyed tubing.
1	12-3	"	" "	Pulled tubing. Strung in with 2-5/8" Cavins sand pump to 4201', top of fill. 4-5/8" impression block stopped at 3927'. 4-1/4" block stopped at 3927'. 3-3/4" block stopped at 3927'. Ran in with 2-5/8" Cavins sand pump, went to 4201'. Fluid level at 500'.
2	12-4	"	" "	Ran in with 1-7/8" x 4-1/8" x 2.59' Baash-Ross tapered mill on 3-1/2" bumper sub on 2-1/2" tubing on 3" tubing. Ran in to top of liner at 3927'. Pipe did not appear to be bad. Ran in to 4166' where mill stopped. Pulled back up to top of liner and worked mill through liner hanger repeatedly. Pulled out. Ran L-W Cemoton and Chlorinilog
1	12-5	"	" "	Finished running L-W Cemoton and Chlorinilog.
	12-6			Crew off.
2	12-7	"	" 4200	Ran in with 7½" impression block to top of liner at 3928'. No impression. Reran impression block to top of liner. Bailed sand and shale at 4201' with 2-5/8" Cavins sand pump. Bailer sticking badly at 4201'. Recovered small loads. Bright spot on bottom of bailer indicates possible tight pipe. Dumped 1¾ sacks construction cement at 4201' at 2:30 p.m. Felt for cement at 5:30 p.m. Top of cement at 4200'.

NAMES OF DRILLERS/HEAD WELL PULLERS:

California Production Service - Contractor

Vaughn S. Moyer
DISTRICT ENGINEER

14

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

UNION OIL COMPANY

History of Oil or Gas Well

REPAIR REPORT

WELL NO. Oil Operators #3

Long Beach (FIELD)

Los Angeles (COUNTY)

SEC. 13, T. 4-S, R. 13-W, S.B. B. & M.

Prod. Hoist - Contract (TOOLS)

December 20, 1959 (PERIOD ENDING)

CASING RECORD WSO

13-3/8" C 765' : 8-5/8" C 3986 ~~11616-5/8" H-4075'-1ne-891-pfa, Flld~~ 1518' 5½" F & C 5446. ~~Bud-4195-&-5207,~~ Flgd. WSO test on splice OK bullet pf & plgd ~~4190-4205,-4852-4950 4140-5180,-5190-5200,-5306-5355~~ bullet pf 4080-4158'.

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1959	DEPTH	EFFECTIVE DEPTH	REMARKS
1	12-8	Dpnd 5450	Plug 4200	Ran in with Cavins off bottom cement dump bailer and dumped 2 sacks construction cement at 4200' at 9:30 a.m. Felt for top of cement with bailer jars at 12:30 p.m. No fill. Dumped 2 sacks construction cement at 4200' at 1:30 p.m. Felt for top of cement at 4:30 p.m. No fill. Dumped 2 sacks of construction cement at 4200' at 5:45 p.m.
1	12-9	"	" 4159	Ran in with jars and found top of cement at 4200'. Mixed 4 sacks of construction cement and dumped in 2 runs at 4200'. Finished dumping cement at 9:00 a.m. Felt for plug at 12:00 noon. Located top of plug at 4174'. Rigged up to shoot.
2	12-10	"	" 4159	Perforated 5-1/2" liner from 4158-4080' with two 1/2" bullets per foot. Used L-W 4" x 50 shot wire line gun. Checked collars and reset odometer according to collars. Located top of plug at 4159'. Fluid level stayed at 540' during shooting job. No blow. All guns came from hole covered with oil. Had 2 scattered missfires. Checked bottom at 4159' after shooting. Removed blow-out preventer. Ran in and landed tubing. Ran rods. Put well on production. Contractor moved out.

PRODUCTION DATA

	Hrs	Gross	Net	Cut	Grav.	MCF	Remarks
12-10	12	132					No cut obtained.
12-11	24	175	107	39.0	23.3	Tr.	
12-12	24	134	82	39.0	23.3	"	
12-13	24	168	102	39.0	23.3	"	
12-14	24	167	90	46.0	23.3	20	
12-15	24	107	66	38.0	23.3	20	
12-16	24	98	61	38.0	23.3	20	1020' fluid over pump by Sonic
12-17	24	95	57	40.0	23.3	20	
12-18	24	118	71	40.0	23.3	20	
12-19	24	131	79	40.0	23.3	20	
12-20	24	134	80	40.0	23.3	20	

rjh

NAMES OF DRILLERS/HEAD WELL PULLERS:

California Production Service - Contractor

Vaughn S. Moyer
DISTRICT ENGINEER

COMPLETED PRODUCING ON 12-10-59

ABANDONED ON _____

Cordova/Ballantyne 7-2-67
Solid sand at 4000'.
O.K. to P/C 4000'–3878', using 100%
excess per conversation with Ingram
on 6-29-67.

Ballantyne/Ingram 6-29-67
will use 100% excess on zone plug
in lieu of feeling for top – ok. wez

FORM 111

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 159-888

Mr. C. F. Bowden
P. O. Box 7600
Los Angeles 54, California
Agent for UNION OIL COMPANY OF CALIFORNIA

Inglewood 3, Calif.
October 22, 1959

DEAR SIR:

Your proposal to alter casing Well No. "Oil Operators" 3,

Section 13, T. 4 S, R. 13 W, S B B. & M., Long Beach Field, Los Angeles County,

dated Oct. 19, 1959, received Oct. 21, 1959, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
Plugged with cement 5446'-5428' and 5101-4984'.

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth. 4076' Dpnd 5450' Plug 4985'
2. Complete casing record.
   13-3/8" C 765'
   8-5/8" C 3986' WSO
   ~~116'-6-5/8"-H-4075' incl.-89'-pfsw~~, pulled.
   1518' 5-1/2" F & C 5446'. Bad 4195' & 5107'.
   WSO test on splice OK.
   Bullet pf. 4190-4205' & 4852'4950'.
   Bullet pf. & plgd. ~~5140-5180'~~,-~~5190-5200'~~,-~~5306-5355'~~.
3. Last produced. April 1958 (Date) 2 B/D (Net Oil) 23.7° (Gravity) 98.0% (Cut)"

PROPOSAL
"The proposed work is as follows:
1. Pull rods and tubing.
2. Check hole open to top of plug at 4985'.
3. Check condition of 5-1/2" liner with impression blocks.
4. Perforate 5-1/2" liner from 4080-4185' with two 1/2" bullets per foot.
5. Check hole open to top of plug at 4985'.
6. Run rods and tubing.
7. Test on production."

12-1-59 Holler/Crowder } N. ward kw - w Atlantic
may have trouble below 4195 ±'
will plug fr as deep as possible
DOG to witness top

DECISION
THE PROPOSAL IS APPROVED.

RC:omh

cc Vaughn S. Moyer Div. Eng.
9645 South Santa Fe Springs Rd.
Santa Fe Springs, California

E. H. MUSSER, State Oil and Gas Supervisor

By Wm. C. Bailey, Deputy

Blanket Bond
58444 7-57 60M SPO

FORM 107.

DIVISION OF OIL AND GAS
RECEIVED
OCT 21 1959
INGLEWOOD, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Santa Fe Springs, Calif. October 19, 1959

DIVISION OF OIL AND GAS

Inglewood, Calif.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
		Alter casing	Blanket	EB	Eg

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. OIL OPERATORS #3
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 4076' Dpnd 5450' Plug 4985'

2. Complete casing record.

13-3/8" C 765'
8-5/8" C 3986' WSO
~~116' 6-5/8" H 4075' incl. 89' pfs.~~, pulled.
1518' 5-1/2" F & C 5446'. Bad 4195' & 5107'.
WSO test on splice OK.
Bullet pf. 4190-4205' & 4852-4950'.
Bullet pf. & plgd. ~~5140-5180', 5190-5200', 5306-5355'~~.

3. Last produced. April 1958 (Date) 2 B/D (Net Oil) 23.7° (Gravity) 98.0% (Cut)

The proposed work is as follows:

1. Pull rods and tubing.
2. Check hole open to top of plug at 4985'.
3. Check condition of 5-1/2" liner with impression blocks.
4. Perforate 5-1/2" liner from 4080-4185' with two 1/2" bullets per foot.
5. Check hole open to top of plug at 4985'.
6. Run rods and tubing.
7. Test on production.

Union Oil Company of California
(Name of Operator)

By V. S. Moyer R.J.H.
Vaughn S. Moyer, Division Engineer

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

rjh

STENOGRAPHER

Date Received 7-30-[redacted] Form 100 ____ 101 ____ 103 [redacted]

Elec. Log ____ Radio Log ____

Direct. Surv. ____ Other Data History

Location ____

Elevation ____ Steno. Scott

ENGINEER

BOND Blanket Release ____ Date Elig. ____ 150b ____

End Prem.Yr. ____ Release Requested ____ Superseded ____ Aban. ____

HOLD BOND ____ Reason ____

Data Needed None

Final Letter ____ Eng. ____

7-30-53

JLW

: RECEIPT FOR

: Well Summary ____

: Drillers Log ____

: Core Record ____

: History ✓

: Elec. Log ____

: Radio Log ____

: Direct. Surv. ____

: ____

: Redrill ____

: Deepen ____

: Plug ✓

: Alter Csg. ✓

: Abandon ____

10

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND G of California

DIVISION OF OIL AND GAS
RECEIVED
JUL 20 1953
LOS ANGELES, CALIFORNIA

WELL NO. "Oil Operators" #3

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13, T. 4-S, R. 13-W S.B. B. & M.

UNION OIL COMPANY
History of Oil or Gas Well

REPAIR REPORT

Prod. Hoist - Contract
(TOOLS)

July 8, 1953
(PERIOD ENDING)

CASING RECORD
See below
(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1953	DEPTH	EFFECTIVE DEPTH	REMARKS
				CHARGE: B.R.-A.F.E. 51528 Job 231-D
				PROPOSED WORK: Cement off bottom perforations with plug from 5107' to 5000'. Test on production. If upper perforations not causing sand, gun perforate 5-1/2" casing from 4950' to 4852' with four 1/2" holes/ft.
				PRODUCTION BEFORE REPAIR: 57 B/D Gross - 14 B/D Net - 75.0% Cut
				ZERO POINT for this job: 9' 1" above concrete pad.
				CASING RECORD AT START OF WORK: ~~T.D.-4976'~~ Dpn 5450' 13-3/8" C 765' 8-5/8" C 3986' WSO ~~126'-6-5/8"-N-4975'-inc-89'-perf.~~ Pulled 1518' 5-1/2" F & C 5446' Bad 4195' & 5107' WSO test on splice OK Bullet perf. 4190-4205' Bullet perf. & plugged ~~5140-5280, 5190-5200,~~ ~~5306-5355'~~
				CASING RECORD AT COMPLETION OF WORK: ~~T.D.-4976'~~ Dpn 5450' Plug 4985' 13-3/8" C 765' 8-5/8" C 3986' WSO ~~126'-6-5/8"-N-4975'-inc-89'-perf.~~ Pulled 1518' 5-1/2" F & C 5446' Bad 4195' & 5107' WSO test on splice OK Bullet perf. 4190-4205' and 4852-4950' Bullet perf. & plugged ~~5140-5280, 5190-5200,~~ ~~5306-5355'~~
1	7-6	5450	Plug 4955	California Production Service, Contractors, moved in and set up equipment. Tested tubing - OK. Pulled tubing and rods. Tubing measured 4179.72'. Ran 2-5/8" Cavins bailer. Checked fill at 4938'. Fluid level at 3685'. Cleaned out to 4955'.
1	7-7	5450	Plug 4985	Continued cleaning out sand to 4985'. Installed Shaffer blow-out preventer. Ran in with Lane-Wells 4" x 13' type A-2 bullet gun, shot four 1/2" holes/foot from 4950' to 4852'. Had light blow and rapid fluid rise. Fluid level at start of shooting 3425'; fluid level at finish 3220'.
1	7-8	5450	Plug 4985	Bled off 35# casing pressure. Ran 2-5/8" Cavins sand pump. Checked fill at 4963'. Fluid level at 3170'. Cleaned out to 4985'. Ran in and landed 4788' of mixed 2-1/2" and 3" tubing. Ran rods and pump. Contractor moved out July 8, 1953. Well on production at 5:30 P.M.
5				

NAMES OF DRILLERS/HEAD WELL PULLERS:
Calif. Prod. Service, Contractors

Chas. F. Bowden
DISTRICT ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
VISION OF OIL AND G. of California

DIVISION OF OIL AND GAS
RECEIVED
JUL 31 1953
LOS ANGELES, CALIFORNIA

12

UNION OIL COMPANY
History of Oil or Gas Well

REPAIR REPORT

WELL NO. Oil Operators #3

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13, T. 4-S, R. 13-W S.B. B. & M.

Prod. Hoist - Contract
(TOOLS)

July 26, 1953
(PERIOD ENDING)

CASING RECORD

See previous sheet

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS
		5450	Plug 4985	

PRODUCTION DATA

	Hours	Gross	Net	Cut	Grav.	MCF	Remarks
7-8	13	35	0	100.0			
7-9	24	78	0	100.0			
7-10	24	95	34	63.0			
7-11	24	76	32	58.0		25	
7-12	24	76	27	64.0		22	
7-13	24	66	17	75.0		8	
7-14	24	72	37	48.0	23.1	8	
7-15	0						Sanded up

NO. TOURS	DATE	REMARKS
1	7-16	Union Oil production crew pulled rods and tubing.
1	7-17	Cleaned out 4725-4757' with 3-1/8" Cavins sand pump.
1	7-18	Cleaned out 4757-4820' with 3-1/8" Cavins sand pump.
1	7-19	Cleaned out 4820-4985' with 3-1/8" Cavins sand pump. Recovered shale and pieces of iron. Fluid level 3300'. Ran tubing to 4200'.
1	7-20	Cleaned out off bottom with 3-1/8" Cavins sand pump. Ran tubing to 1900'.
1	7-21	Ran rods. Put well on prod.

	Hours	Gross	Net	Cut	Grav.	MCF	Remarks
7-22	24	91	46	49.0			
7-23	24	91	61	33.0	23.8		
7-24	24	82	45	45.0	23.6	2	
7-25	24	73	37	49.0		2	
7-26	24	69	35	49.0	23.7	2	

fg

NAMES OF DRILLERS/HEAD WELL PULLERS:
Calif. Prod. Service, Contractors, to 7-8-53.
Union Oil Prod. Crew 7-16-53 to 7-21-53

Chas. F. Bowden
DISTRICT ENGINEER

STENOGRAPHER

Date Received 7-3-53 Form 100 ____ 101 ____ 103 ____

Elec. Log ____ Radio Log ____

Direct. Surv. ____ Other Data History

Location ____

Elevation ____ Steno. EB

ENGINEER

EB BOND Blanket Release ____ Date Elig. ____ 150b ____

End Prem.Yr. ____ Release Requested ____ Superseded ____ Aban. ____

HOLD BOND ____ Reason ____

Data Needed None

Final Letter ____ Eng. VLW

7-6-53

: RECEIPT FOR

: Well Summary ____

: Drillers Log ____

: Core Record ____

: History ✓

: Elec. Log ____

: Radio Log ____

: Direct. Surv. ____

: ____

: Redrill ____

: Deepen ____

: Plug ✓

: Alter Csg. ✓

: Abandon ____

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

UNION OIL COMPANY of California

History of Oil or Gas Well

REPAIR REPORT

DIVISION OF OIL AND GAS
RECEIVED
JUL 3 1953
LOS ANGELES, CALIFORNIA

WELL NO. Oil Operators #3

Long Beach (FIELD)

Los Angeles (COUNTY)

SEC. 13, T. 4-S, R. 13-W S.B. B. & M.

Prod. Hoist - Contract (TOOLS)

June 21, 1953 (PERIOD ENDING)

CASING RECORD: See below (NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1953	DEPTH	EFFECTIVE DEPTH	REMARKS
				CHARGE: B.R.-A.F.E. 51528 Job 231-D
				PROPOSED WORK: Plug back all existing perforations in R, S and T Zones and test well on production.
				PRODUCTION BEFORE REPAIR: 41 B/D Gross - 13 B/D Net - 22.8° - 67.3%.
				ZERO POINT for this job: 9'1"
				CASING RECORD AT START OF WORK: ~~T.D. 4976'~~ Dpn 5450' : 13-3/8" C 765' 8-5/8" C 3986' WSO : ~~116'-6-5/8" H-4975' 4ne-89'-perf~~, pulled : 1518' 5-1/2" F & C 5446' : Bad 4195' & 5107' WSO test on splice OK : Bullet pf 4190-4205', 5140-5180', 5190-5200', 5306-5355'.
				CASING RECORD AT COMPLETION OF WORK: ~~T.D. 4976'~~ Dpn 5450' : 13-3/8" C 765' 8-5/8" C 3986' WSO : ~~116'-6-5/8" H-4975' 4ne-89'-perf~~, pulled. : 1518' 5-1/2" F & C 5446' : Bad 4195' & 5107' : WSO test on splice OK : Bullet pf 4190'-4205'. Bullet pf & plgd ~~5140-5180', 5190-5200' 5306-5355'~~.
1	6-8	5450	Plug 5428 Bad 5101	California Production Service, Contractor, moved in and installed blow-out preventer. Checked bottom with 2-5/8" Cavins sand pump at 5101'. Fluid level at 810'. Ran in with 7-1/2" impression block. Checked 5-1/2" liner hanger at 3925'. Ran in with 4" impression block - went to 5100' - no marks.
1	6-9	"	Plug 4983 Bad 5101	Ran in with Cavins continuous dump bottom bailer. Dumped 11 sacks of construction cement in 5-1/2" casing, starting at 5101'. Let stand 4 hours. Felt top of plug at 4983'.
1	6-10	"	Plug 4985	Ran in with 2-5/8" Cavins sand pump. Bailed loose cement at 4983' to hard cement at 4985'. Witnessed and approved by Division of Oil and Gas. Started running tubing.
1	6-11	"	Plug 4985	Ran tubing and started running rods.
1	6-12	"	" "	Finished running rods. Put well on pump. Contractor released.

PRODUCTION DATA

	Hours	Gross	Net	Cut	Grav.
6-12	16½	113	0	100.0	
6-13	23	96	0	100.0	
6-14	24	67	0	100.0	
6-15	24	82	0	100.0	
6-16	24	78	1	97.0	23.8
6-17	24	75	22	71.0	23.2
6-18	24	66	18	73.0	
6-19	24	56	15	73.0	
6-20	24	57	14	75.0	
6-21	24	57	14	75.0	

NAMES OF DRILLERS/HEAD WELL PULLERS:
California Production Service, Contractor.

Chas. F. Bowden
DISTRICT ENGINEER

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-737

Los Angeles 15
Calif. June 18 19 53

Mr W S Eggleston
~~Mr~~ 1109 Union Oil Building
LOS ANGELES 17 Calif.
Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

Operations at your well No. "Oil Operators" 3 Sec. 13, T. 4 S, R. 13 W, S B B. & M., Long Beach Field, in Los Angeles County, were witnessed by J. R. Thomas, Inspector, representative of the supervisor, on June 10, 19 53. There was also present R. J. Wilson, Driller; Ray Hothan, Helper.

Casing Record 13-3/8" cem. 765'; 8-5/8" cem. 3986', W.S.O.; 5½" ld. 3928'-5446', perf. 4190'-4205', 5140'-5180', 5190'-5200', and 5306'-5355'. T.D. 5450', plugged with cement 5446'-5428' and 5101'-4984'.

Junk None

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 5101' to 4984' in the process of plugging back.

The inspector arrived at the well at 10:45 a.m. and Mr. Wilson reported: that on June 9, 1953, 11 sacks of cement was dumped into the hole beginning at 5101'.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 4984' and brought up a sample of set cement.

The test was completed at 11:30 a.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 4984' ARE APPROVED.

JRT:OH

cc Long Beach

Mr C F Bowden Div Engineer
Union Oil Co of California
9645 South Santa Fe Springs Road
WHITTIER California

G
M

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Meesser Deputy

44226 5-51 14,250 ② SPO

FORM 111 (1-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 153-666

Los Angeles 15 Calif. May 28 1953

Mr. W S Eggleston

121

Los Angeles 17 Calif.

Agent for UNION OIL CO OF CALIFORNIA

Dear Sir: "Oil Operators"

Your proposal to plug & alter casing Well No. 3,

Section 13, T. 4 S, R. 13 W, S B B. & M., Long Beach Field, Los Angeles County,

dated May 26 1953, received May 27 1953, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE

The hole is plugged with cement 5446'-5428'.

Records Filed
100
101
103 ✓ 7-3-53 JLW
E. Log 7-30-53 JLW

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth - 4076'
   Deepen - 5450'

2. Complete casing record.
   13-3/8" C 765'
   8-5/8" C 3986' W.S.O.
   ~~1161-6-5/8" H-4075' inc. 89' perf., pulled~~
   1518' 5-1/2" F & C 5446', Bad 4195' & 5107'
   W.S.O. test on splice O.K.
   Bullet perf: 4190-4205, 5140-5180, 5190-5200, 5306-5355'.

3. Last produced. April 1953 (Date) 13 B/D (Net Oil) 22.8° (Gravity) 67.3% (Cut)"

PROPOSAL

"The proposed work is as follows:

1. Plug 5-1/2" casing with cement from 5107' to 5000'.
2. Test on production.
3. Gun perforate 5-1/2" casing from 4950-4852'. done 7-7-53
4. Test on production."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Plugging operations shall start from as deep as possible.
2. THIS DIVISION SHALL BE NOTIFIED TO WITNESS the location and hardness of cement plug at 5000'.

JLW:OH

cc W S Eggleston
C F Bowden
Long Beach

M/A

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Meesser Deputy

Blanket bond.

FORM 107. 36140 11-50 10M SPO

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
MAY 27 1953
LOS ANGELES, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Whittier Calif. May 26 19 53

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling~~, plugging ~~or~~ & altering casing at Well No. Oil Operators #3
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S. B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. - 4076'
   Deepen - 5450'

2. Complete casing record.
   13-3/8" C 765'
   8-5/8" C 3986' W.S.O.
   ~~116'-6-5/8"-H-4075'-inc.-89'-perf.,-pulled~~
   1518' 5-1/2" F & C 5446', Bad 4195' & 5107'
   W.S.O. test on splice O.K.
   Bullet perf: 4190-4205, 5140-5180, 5190-5200, 5306-5355'

3. Last produced. April 1953 (Date) 13 B/D (Net Oil) 22.8° (Gravity) 67.3% (Cut)

The proposed work is as follows:

1. Plug 5-1/2" casing with cement from 5107' to 5000'.
2. Test on production.
3. Gun perforate 5-1/2" casing from 4950-4852'.
4. Test on production.

Plug + alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket		

UNION OIL CO. OF CALIFORNIA
(Name of Operator)

By C. F. Bowden
C. F. BOWDEN, Division Engineer.

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

STENOGRAPHER Hiss & Oil or Gas Well

Date Received 7-29-48 Form 100 ____ 101 ____ 103 ____

Elec. Log ____ Radio Log ____

Direct.Surv. ____ Other Data ____

Location ____

Elevation ____ Steno. Scott

ENGINEER

BOND Blanket Release ____ Date Elig. ____ 150b ____

End Prem.Yr. ____ Release Requested ____ Superseded ____ Aban. ____

HOLD BOND ____ Reason ____

Data Needed None

Final Letter ____ Eng. SHR 8-2-48

Use of Oil or Gas Well

STENOGRAPHER

Date Received 5-1-48 Form 100 _____ 101 _____ 103 _____

Elec. Log _____ Radio Log _____

Direct.Surv. _____ Other Data _____

Location _____

Elevation _____ Steno. Scott

ENGINEER

BOND Blanket Release ___ Date Elig. _____ 150b _____

End Prem.Yr. _____ Release Requested ___ Superseded ___ Aban. _____

HOLD BOND _____ Reason _____

Data Needed None

Final Letter ___ Eng. SMB 5-13-48

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

UNION OIL COMPANY
History of Oil or Gas Well

REPAIR REPORT

WELL NO. Oil Operators #3

Long Beach
(FIELD)

Los Angeles
(COUNTY)

SEC. 13, T. 4-S, R. 13-W, S.B. B. & M.

Portable Hoist
(TOOLS)

February 24, 1948
(PERIOD ENDING)

CASING RECORD
13-3/8" C 765
8-5/8" C 3986' O.K.
1518' 5-1/2" C 5446'
(Pf. 5140-5180', 5190-5200', 5306-5355') Plgd with Bridge plg
Perf. 4190-4205'.
(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1948	DEPTH	EFFECTIVE DEPTH	REMARKS
		Proposed work:		Plug off present perforations with temporary bridge plug. Test H-I Zone.
		Production:		November, 1947 8 B/D net - 23.0° - 64.1%
2	2-10	5450	Plg 5428	Rigged up. Pulled rods and tubing. Cleaned out from 5391' to 5428' with 3-1/8" Cavins bailer. Ran 4-1/2" impression block to 5426'.
2	2-11	"	" B.P. 4318	Set Baker bridge plug at 4327' - no fluid above plug. Dumped one sack cement at 4327'. Installed 6" control gate. Checked top of cement at 4318'. Dumped in 500 gallons of stove oil. Gun perforated 5-1/2" liner from 4190' to 4205' with two McCullough 1/2" holes per foot. Fluid level rose from 3918' to 3050' during shooting. Had a good gas blow.
2	2-12	"	" "	Located top of sand at 4283'. Cleaned out with 3-1/8" bailer to 4303'. Ran 4-1/2" impression block to 4210'. Ran 2-1/2" tubing to 4177'. Ran rods.
1	2-13	"	" "	Hooked up flow line. Put well on pump.

PRODUCTION DATA

	Hours	Gross	Net	Cut	Grav.	Remarks
2-14	24	44	19	56.0	23.0	Average Cut (old).
2-15	24	19	8	56.0	23.0	
2-16	24	10	4	56.0	23.0	
2-17	24	17	7	56.0	23.0	
2-18	24	14	6	56.0	23.0	
2-19	0					Lowered tubing - changed pump.
2-20	21	40	18	4.1	22.8	
2-21	24	29	28	4.1	22.8	
2-22	24	21	20	2.2	22.8	
2-23	24	21	21	2.2	22.8	
2-24	24	21	21	2.2	22.8	

FORMS: MAP | MAP BOOK | CARDS | BOND | 114 | 121

Skinner

DIVISION OF OIL AND GAS
RECEIVED
MAY 1 - 1948
LOS ANGELES, CALIFORNIA

NAMES OF DRILLERS/HEAD WELL PULLERS:
Santa Fe Springs Production

John R. Fraser
DISTRICT ENGINEER

9

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

UNION ~~OIL~~ COMPANY

History of Oil or Gas Well

REPAIR REPORT

WELL NO. Oil Operators #3

Long Beach

(FIELD)

Los Angeles

(COUNTY)

SEC. 13 T. 4-S R. 13-W S.B. B. & M.

Portable Hoist

(TOOLS)

April 15, 1948

(PERIOD ENDING)

CASING RECORD

13-3/8" C 765'
8-5/8" C 3986' O.K.
1518' 5-1/2 C 5446'
Pf. 5140-5180, 5190-5200, 5306-5355' & 4190-4205'

(NOTE INEFFECTIVE CASING)

RECEIVED JUL 29 1948

NO. TOURS	DATE 1948	DEPTH	EFFECTIVE DEPTH	REMARKS
				Proposed Work: Clean out bridge plug and return to production. Production: 20 B/D net - 22.8° - 2.2%
1	3-24	5450	Plug 5428 Bridge plug 4318	Pulled rods and tubing. Shut well in.
1	3-25	5450	" "	Cleaned out from 4308' to 4316' with 2-5/8" bailer. Fluid level 3100'.
2	3-26	5450	Plug 5428	Ran in with chisel shoe and drilled out bridge plug. Cleaned out with bailer to 5428'. Recovered metal and sand.
1	3-27	5450	Plug 5428	Checked hole open to bottom. Ran tubing and rods. Put well on production.

PRODUCTION DATA

Hrs.	Gross	Net	Cut	Grav.	Remarks
3-28	18	27	27	1.1	22.8
3-29	18	30	30	1.1	22.8
3-30	24	30	30	1.1	22.8
3-31	24	48	47	1.1	22.8
4-1	24	30	30	1.5	22.8
4-2					Pulled rods and tubing.
4-3					Cleaned out sand from 5368' to 5428' with 2-5/8" Cavins bailer. Ran tbg.
4-4					Ran rods & pump. Put well on prod.
4-5	24	68	67	1.5	22.8
4-6	24	68	67	1.5	22.8
4-7	24	43	42	1.5	22.8
4-8	24	4	4	1.5	22.8
4-9	24	45	44	1.5	22.8
4-10	24	33	33	1.5	22.8
4-11	24	3	3	1.5	22.8
4-12	24	2	2	1.5	22.8
4-13	24	28	28	1.5	22.8
4-14	24	40	39	1.5	22.8
4-15	24	66	65	1.5	22.8

MAP	MAP S.O.	CARDS	BOND	FORMS 114	FORMS 121

NAMES OF DRILLERS/HEAD WELL PULLERS:

John R. Fraser
DISTRICT ENGINEER

[redacted]

Sol[redacted] Drayer
12/24/47
ABH.

Hinn Oil Co.,

"Oil Operators" #3

To perf. 4205' – 4190'
later on if not enough to perf.
up as high as 4050'

To temp. bridge off lower perfs.
and if o.k. to take both
zones together

FORM 111.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-44335

Los Angeles 15, Calif. December 26, 1947

MR. W. S. Eggleston

Los Angeles 14, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your proposal to alter casing Well No. "Oil Operators" 3, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated Dec. 22, 1947, received Dec. 23, 1947, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Complete casing record.
   Total depth 5450' - Plug 5428'
   13-3/8" C 765'
   8-5/8" C 3986'
   1518' 5-1/2" F & C 5446' Perf. 5140-5180', 5190-5200' & 5306-5355'

2. Last produced Nov., 1947 (Date) 8 B/D Ave. (Net Oil) 23.0° (Gravity) 64.1% (Cut)"

PROPOSAL:

"The proposed work is as follows:

1. Plug off perforations from 5140' to 5355' with a bridge plug.
2. Test H-I Zones by stages from 4200' to 4050'.
3. If O.K., knock out bridge plug and put on production."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT

1. It is understood that the bridge plug above the perforations 5355'-5140', does not fulfill the requirements of this division for the abandonment of the lower portion of the hole.
2. This division shall be kept informed of the results of tests after each stage of perforating, and will designate any requirements at that time.

SHR:OH

Records Filed
100
101
103 5-1-48 & 7-29-48
E. Log

cc- John R. Fraser
Long Beach

R/B

R. D. BUSH
State Oil and Gas Supervisor

By E A Musser Deputy

Blanket bond.

FORM 107. 52529 12-45 17,500
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL AND GAS
RECEIVED
DEC 22 1947
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Whittier Calif. Dec. 22 19 47

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at well No. Oil Operators #3
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S. B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.
   Total depth 5450' - Plug 5428'
   13-3/8" C 765'
   8-5/8" C 3986'
   1518' 5-1/2" F & C 5446' Perf. 5140-5180', 5190-5200' & 5306-5355'

2. Last produced Nov., 1947 (Date) 8 B/D Ave. (Net Oil) 23.0° (Gravity) 64.1% (Cut)

The proposed work is as follows:

1. Plug off perforations from 5140' to 5355' with a bridge plug.
2. Test H-I Zones by stages from 4200' to 4050'.
3. If O.K., knock out bridge plug and put on production.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket	Ens	Ens

alter casing

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By John R. Fraser
John R. Fraser, Division Engineer

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941
LOS ANGELES, CALIFORNIA

Subsequent Work Report

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937, was filed.

SIGNED Henry E. Winter

Date September 11, 1941

Title DIVISION ENGINEER
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

CASING RECORD AT START OF WORK:
13-3/8" C. 765'
8-5/8" C.3986', O.K.
116' 6-5/8" L. 4075', inc. 89' pf.

CASING RECORD AT END OF WORK:
13-3/8" C. 765'
8-5/8" C. 3986', O.K.
1518' 5½" C. 5446'. Pf: 5140-5180'; 5190-5200'; 5306-5355'

1941	Depth	Eff. Depth	Remarks
7-31	4076		Killed well with mud.
8-2	4080		Drilled through bottom of liner and ahead to 4080' with 5-5/8" bit. Cut 6-5/8" liner at 3976'.
8-3	4080		Recovered 18' 6-5/8" liner. Ran in double cup inverted 6-5/8" casing swab, changed from mud to oil, and washed perforations.
8-6	4170		Recovered remaining 98' of 6-5/8" liner, changed from oil to mud, and drilled ahead with 7-5/8" rock bit.
8-21	5131		Drilled ahead with 7-5/8" bits to 5131'. Hole was directionally controlled, using whipstocks at 4170', 4300', 4844', 4890', and 4977'. Ran Schlumberger survey.
8-25	5450		Continued drilling directionally controlled hole with 7-5/8" bits to 5450'. Coordinates of hole at 5449': 90.29' S., and 48.45' E. from the surface location of the hole. Ran Schlumberger survey. Ran in 1517.97' of new 5½" Grade "C", 17# casing, including 83.44' new Grade "A", and 1.86' Burns 8-5/8"x5-1/2" liner hanger on top. Froze and cemented at 5446' with 285 sacks slow Colton cement.
8-29	5450	Plug 5428'	Found top of cement at 3685' and cleaned out cement to 5428'. Changed from mud to water and bailed fluid to 3011'. After standing 8 hours, found top of fluid at 3011', with no rise. Test was witnessed by D.O.G., and splice of liner approved. Changed from water to oil.

5446
1517
3929

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941
LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937 _____, was filed.

SIGNED Henry E Winter

Date September 11, 1941 Title DIVISION ENGINEER
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

1941	Depth	Eff. Depth	Remarks
8-31	5450	Plug 5428	Ran in Lane-Wells 4-3/8" casing gun perforator and perforated 5½" casing from 5140-5180', 5190-5200', 5306-5355', with a total of 200 1/2" holes. Fluid level at surface during perforating.
9-1	5450	Plug 5428	Ran in rods and tubing and put well on the pump.

PRODUCTION DATA

	Gross	Net	Gravity	% Cut	Hours Pumped
9-1	145	123	22.3	15.5	12
9-2	141	107	22.3	24.2	24
9-3	129	110	22.3	15.0	24
9-4	117	105	22.3	10.5	24
9-5	129	116	22.3	9.9	24
9-6	122	110	22.3	9.9	24
9-7	119	109	22.3	8.7	24
9-8	113	104	22.3	8.4	24
9-9	114	104	23.1	8.4	23
9-10	99	90	23.1	8.6	24

MEASUREMENT DATUM

All measurements taken from top of rotary table, which is 22" above top of derrick floor. Top of derrick floor is 5' 1" above top of cement cellar, or 9' 1" above floor of cellar.

FORM 101.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941
LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Union Oil Company of California Field Long Beach

Well No. Oil Operators #3 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
4076	4723	647'	Drilled		Sand and shale
4723	4732	9'	"		Sand with streaks of shale
4732	4959	227'	"		Sand and shale
4959	4967	8'	"		Shale
4967	5278	311'	"		Sand and shale
5278	5305	27'	"		Shale
5305	5450	145'	"		Sand and shale
		TOTAL DEPTH 5450'			

708 5-39 3M
PRINTED IN U.S.A.

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

DIVISION OF OIL & GAS
RECEIVED
SEP 13 1941

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE No. 3 WELL

Sec. 13, T. 4-S, R. 11-W, S. B. B&M LOCATION ELEVATION

DATE	CORE NO.	DRILLER, SIZE & TYPE BARREL	FROM	TO	TOTAL RECOVERY	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPARENT DIP	ANGLE OF HOLE
										Henry E. Winter		
					(NO CORES TAKEN)							

STATE CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 8976

DIVISION OF OIL AND GAS

LOS ANGELES Calif. 9/10 1941

Herman Oil Co of Calif
Name of Operator

LOS ANGELES
Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4S
R. 13 W. Long Bch B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work

See log - "Oil Operators" 3 8/21/41 — 8/21/41

R. D. BUSH, State Oil and Gas Supervisor

DUPLICATE

By E. H. Musser Deputy

att

FORM 127. 87887 6-40 3500 TRIP

CALIFORNIA STATE PRINTING OFFICE

FORM 109-D.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-40031

Los Angeles, Calif. September 10, 1941.

Mr. W. S. Eggleston,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by James T. Carriel, Inspector, representative of the supervisor, on August 29, 1941. There was also present H. E. Winter, Engineer, and J. Kewish, Drilling Foreman.

Casing Record 13-3/8" cem. 765'; 8-5/8" cem. 3986', W.S.O.; 5-1/2" cem. 3928'-5446'; T.D. 5450', plugged with cement 5450'-5428'.

Junk None.

The operations were performed for the purpose of demonstrating that no fluid has access to the well between the 8-5/8" and 5-1/2" casings,

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 6:30 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. All of the 6-5/8" casing was recovered.
2. A 7-5/8" rotary hole was drilled from 4075' to 5450'.
3. On August 25, 1941, 1518' of 5-1/2" - 17 lb. casing was cemented at 5446' with 285 sacks of Slow Colton cement.
4. Cement was drilled out of the 8-5/8" and 5-1/2" casings from 3685' to 3938' and from 5226' to 5428'.
5. On August 29, 1941, at 10:00 a. m., the fluid was bailed to 3011'.

THE INSPECTOR NOTED THE FOLLOWING:

1. No fluid entered the well while standing 8 hr. for test.
2. The hole was open to 5428'.

The test was completed at 7:20 p. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT NO FLUID HAS ACCESS TO THE WELL BETWEEN THE 8-5/8" AND 5-1/2" CASINGS.

cc- H. E. Winter
Long Beach
JTC:OH

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musser Deputy

FORM 111.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-36673

Los Angeles, Calif. July 28 1941.

Mr. W. S. Eggleston,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your _____ proposal to deepen Well No. "OIL OPERATORS" 3, Section 13, T. 4S., R. 13W., S. B. B. & M., Long Beach Field, Los Angeles County, dated July 22, 1941, received July 24, 1941, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:
"The present condition of the well is as follows:
Total depth 4076'
13-3/8" C 765'
8-5/8" C 3986' O. K.
116' 6-5/8" L 4075', inc. 89' perf.
Last production, June, 1941 - 764 oil, 9,521 water - 30 days.
It is desired to deepen to the "R-S" & "T" Zones."
PROPOSAL:
"The proposed work is as follows:
1. Full 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production."

DECISION:
THE PROPOSAL IS APPROVED PROVIDED THAT:
1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be provided and ready for use at all times.
3. Any hole to be sidetracked in any oil zone shall be filled with cement, if possible.

cc- H. E. Winter
Long Beach
WJC:G
S/R.

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy

FORM 107. 42649 3-37 10M
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL & GAS
RECEIVED
JUL 24 1941
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Santa Fe Springs Calif. July 22 1941

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of deepening, ~~redrilling, plugging or altering casing at~~ well No. Oil Operators #3
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

Total depth 4076'
13-3/8" C 765'
8-5/8" C 3986' O.K.
116' 6-5/8" L 4075', inc. 89' perf.

Last production, June, 1941 - 764 oil, 9,521 water - 30 days
It is desired to deepen to the "R-S" & "T" Zones.

The proposed work is as follows:

1. Pull 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production.

Deepen
Reference to file of data

Maps	Model	Cross Section	Cards	Forms	
				114	1[illegible]
				✓	✓

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Henry E Winter
Division Engineer.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

O. 38024 12-36 15M.
ORNIA STATE PRINTING OFFICE

SUBMIT LOG IN DUPLICATE

FILL BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF ONLY

DIVISION OF OIL AND GAS
RECEIVED
JAN 11 1938
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Petro Resources Inc

LOG OF OIL OR GAS WELL

Operator UNION OIL COMPANY OF CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS 3 NWLBK 83 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Location 982' N-W'ly along the center line of the Pacific Electric Railway right of way from the center line of Bixby Road, projected and thence 271' S-W'ly at right angles Elevation 53.88

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date Dec. 31, 1937 Signed Henry E Winter

Title District Engineer

(Engineer or Geologist) (Superintendent) (President, Secretary or Agent)

Commenced drilling Nov. 5, 1937 Completed drilling Dec. 5, 1937 Drilling tools ~~Cable~~ Rotary

Total depth 4076 Plugged depth

Junk

GEOLOGICAL MARKERS	DEPTH
Wilbur shale	3595-3658
Alamitos shale	3790-3834
"H"	3953
"I"	3987

Commenced producing Dec. 5, 1937 (date) ~~Flowing/gas lift~~/pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	367	23.5	1.5			
Production after ~~30~~ 22 days	279	23.5	1.4			

Casing Record (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
13-3/8	765	Surface	45.97#	New	Smls.	C	17"	350	
8-5/8	3986	Surface	36#	New	Smls	C	12-1/4"	400	
6-5/8	4075	3959	26#	New	Smls	C	7-5/8"	-	

Perforations

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
6-5/8	3986 ft.	4075 ft.	120 mesh	16	6"	Kobe
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths Schlumberger from 765 to 4076 (Attach Copy of Log)

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 11 1938
LOS ANGELES, CALIFORNIA

3

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS 3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E Winter

Date Dec. 31, 1937 Title District Engineer
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

CASING RECORD AT START OF WORK:

New well

CASING RECORD AT END OF WORK:

13-3/8C765
8-5/8C3986 O.K.
116' 6-5/8L4075', inc. 89' perf.

Date 1937	Depth	Eff. Depth	Remarks
11-5	55		Spudded in and drilled with 17" rotary bit.
11-9	765		Drilled with 17" rotary bits to 765. Cemented new E3-3/8" 45.97# National seamless slipjoint casing at 765' with 350 sx Victor H.E.S. treated cement. Cementing operations witnessed and approved by Murray-Aaron of Division of Oil & Gas.
11-10	932		Found top of cement at 761. Drilled out cement and plugs to 765' and drilled ahead with 12-1/4" bits.
11-24	3948		Drilled with 12-1/4" bits to 3930' and cored with 7-5/8" core barrels to 3948. Directional survey of hole made by Alexander Anderson.
11-25	4000		Cored ahead to 4000'. Ran Schlumberger survey. Reamed out core hole with 12-1/4" bit to 3986'.
11-25	4000		Cemented 8-5/8" 36# grade "C" 8-thread rounded seamless casing at 3986 with 400 sacks Victor oil well cement.
12-1	4030		Found top of cement at 3958'. Cleaned out cement and plugs to 3991. Water shut off test on 8-5/8" casing at 3986 witnessed and approved by Stolz of Division of Oil & Gas. Cored to 4030'.
12-3	4076		Cored to 4076. Ran Schlumberger survey. Landed 116'of 6-5/8" 26# Grade "C" 10-thread casing at 4075', including 89' of 120 mesh (16-2-6) Kobe perforated on bottom. Bailed fluid to 1200' when oil broke in.
12-5	4076		Bailed hole clean. Landed 3" upset tubing at 3710'. Ran rods and installed pumping unit. Well on pump 6:00 P.M. 12-5-37.

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS 3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E. Winter

Date Dec. 31, 1937 Title District Engineer
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

PRODUCTION TEST DATA:

1937	Gross	Net	Grav.	Cut	Status	Remarks
12-5	215	159	23.5	26.0	P 11	
12-6	373	367	23.5	1.5	P 24	
12-7	310	307	23.5	1.1	P 24	
12-8	304	301	23.5	1.0	P 24	
12-9	308	305	23.5	1.0	P 24	
12-10	312	309	23.5	1.0	P 24	
12-11	311	308	23.5	1.0	P 24	
12-12	311	307	23.5	1.2	P 24	
12-13	284	282	23.5	0.7	P 24	
12-14	310	308	23.5	0.8	P 24	
12-15	296	293	23.5	1.0	P 24	
12-16	317	314	23.5	1.0	P 24	
12-17	307	304	23.5	1.0	P 24	
12-18	305	302	23.5	1.0	P 24	
12-19	302	299	23.5	1.0	P 24	
12-20	286	283	23.5	1.0	P 22	Changed gas line
12-21	282	279	23.5	1.0	P 24	
12-22	291	287	23.5	1.5	P 24	
12-23	295	291	23.5	1.5	P 24	
12-24	276	271	23.5	1.7	P 21	Working on gas engine
12-25	307	301	23.5	1.8	P 24	
12-26	246	242	23.5	1.5	P 20	Starting gas engine
12-27	283	279	23.5	1.4	P 24	

FORM 708

U N OIL COMPANY OF CALIFORI

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE #3 WELL

LOCATION 53.88 ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE Henry E Winter	APPT. DIP	ANGLE OF HOLE
11-23-37	1	7-5/8 Soll	3930	3948	17.8			10.8		Firm, medium to coarse gray sand. Inclusion of brown shale 0.3 from bottom. Dip - 13°.		
						0.3				Hard sandy brown shale with fracture of 45°.		
								6.7		Firm, medium to coarse gray sand with streaks of soft fine gray sand. Dip - 13°.		
						0.3		17.5				
11-25-37	2	7-5/8 Soll	3948	3966	12.7					NOTE- Driller reported shell at 3951. 2.3' lost at top of core.		
								0.6		Firm medium gray sand		
									0.5	Hard, calcareous shale shell.		
								2.8		Firm to soft medium gray sand.		
						6.1				Hard dark brown shale. Highly fractured in top 1.6'. Fracture of 60° 1.0' from bottom. Dip 13°-24°.		
							0.1			Soft fine brown oil sand. Good odor.		
						0.2				Hard brown sandy shale.		
							0.9			Firm, soft fine brown oil sand. Fair odor and amber cut.		
						1.1				Hard dark brown shale.		
							0.4			Firm, soft fine brown oil sand. Fair odor and amber cut.		
						7.4	1.4	3.4	0.5			
11-25-37	3	7-5/8 Soll	3966	3984	13.1	0.1				Hard, dark brown shale.		
							0.3			Firm, soft fine brown oil sand. Poor odor and light amber cut.		
						0.1				Hard dark brown shale		
							0.5			Soft fine brown oil sand mixed with mud. Poor odor and light amber cut.		
						3.3				Hard, dark brown shale with fractures of 25°. Top 0.4 highly fractured and contains streaks of fine brown oil sand. Streak of fine brown oil sand 0.4 from bottom.		
							0.4			Firm fine brown oil sand. Fair odor and amber cut.		
						2.5				Hard dark brown shale. Dip - 14°.		
						1.8				Hard broken brown shale. Badly mixed with mud.		
							0.2			Firm soft fine brown oil sand. Fair odor and amber cut.		
						3.1				Hard broken brown shale with streaks of fine brown oil sand. Badly broken and mixed with mud.		
						0.8				Hard dark brown shale.		
						11.7	1.4			NOTE-Driller reported shell at 3981.		

FORM 708

U N OIL COMPANY OF CALIFORI

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE #3 WELL

LOCATION 53.88 ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE Henry E Winter	APPT. DIP	ANGLE OF HOLE
11-25-37	4	7-5/8 Soll	3984	4000	12.2	3.9				Hard compact massive dark brown to black shale. Slightly sandy in spots.		
							8.3			Firm soft medium to coarse dark brown oil sand. Strong odor and dark amber cut. Sand looks good. Streak of brown shale at bottom.		
						3.9	8.3					
12-1-37	5	7-5/8 Soll	4000	4015	10.1		0.8			Firm soft fine brown oil sand. Good odor.		
						0.4				Hard dark brown fractured shale. Dip - 22°.		
							1.1			Firm soft coarse brown oil sand. Good odor.		
							4.8			Firm soft fine brown oil sand. Good odor and dark amber cut.		
						0.2				Hard fractured brown shale. Dip - 16° with slickensides along dip.		
							2.8			Firm soft fine brown oil sand. Good odor and dark amber cut. Streak of brown bentonitic shale 0.3 from top.		
						0.6	9.5					
12-1-37	6	7-5/8 Soll	4015	4030	6.7		2.3			Firm soft fine brown oil sand, poorly sorted top 1.0. Good odor and dark amber cut.		
							0.3			Firm, fine brown oil sand laminated with grayish-brown bentonitic shale.		
						0.4				Hard grayish-brown bentonitic shale. Change from oil sand and shale above is very gradational.		
							2.6			Firm, soft fine brown oil sand. Good odor and dark amber cut.		
						0.1				Hard brown shale.		
							1.0			Firm soft fine brown oil sand.		
						0.5	6.2					
12-2-37	7	7-5/8 Soll	4030	4045	7.6	0.2				Hard brown shale. Dip - 17°		
							5.6			Firm soft fine to medium brown oil sand. Good odor and dark amber cut.		
						0.1				Hard grayish-brown bentonitic shale.		
							1.7			Firm soft medium brown oil sand. Good odor and dark amber cut.		
						0.3	7.3					

FORM 708

U N OIL COMPANY OF CALIFORI

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE 53.85 #3 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE Henry E Winter	APPT. DIP	ANGLE OF HOLE
12-2-37	8	7-5/8 Soll	4045	4060	13.2			0.1		1.8 of mud and cavings with streak of fine gray sand 0.5 from top.		
							0.5			Soft fine brown oil sand mixed with mud.		
						4.4	0.5			Hard brown shale with streaks and partings of fine brown oil sand.		
							0.4			Firm soft fine brown oil sand.		
						0.5	0.1			Hard brown shale with streaks of fine brown oil sand.		
							0.4			Firm soft fine brown oil sand.		
						0.2				Hard brown shale.		
							1.0			Firm soft fine brown oil sand. Good odor and dark amber cut.		
						0.5				Hard brown shale.		
							0.9			Soft fine brown oil sand. Good odor		
						0.3				Hard brown shale. Fracture of 27°		
							0.3			Soft fine brown oil sand.		
						0.7				Hard brown shale. Dip - 19°		
							1.8			Soft fine brown oil sand. Good odor and dark amber cut.		
						0.2				Hard brown shale.		
							0.2			Soft fine brown oil sand mixed with mud.		
						0.2				Hard brown shale.		
						7.0	6.1	0.1				
12-2-37	9	7-5/8 Soll	4060	4076	12.3		2.5			Firm, soft fine brown oil sand. Good odor and dark amber cut.		
						1.6				Hard dark brown shale.		
									0.5	Hard slightly calcareous shale shell.		
						0.3				Hard silty dark brown shale.		
							0.2			Firm soft fine brown oil sand.		
						1.2	0.1			Hard silty dark brown shale, with streaks of fine brown oil sand.		
							0.3			Soft loose fine brown oil sand.		
						0.6	0.1			Hard dark brown silty shale with streaks of fine brown oil sand.		
							0.2			Firm soft fine brown oil sand.		
						0.7				Hard dark brown sandy shale with partings of fine brown oil sand. Poor dips 20°-26°.		
							0.6			Firm fine dark brown argillaceous oil sand.		
						0.2				Hard dark brown sandy shale.		
							1.9			Firm soft fine brown oil sand. Good odor and dark amber cut.		
						0.7				Hard dark brown sandy shale. Good dip of 28° with slickensides along dip 0.1 zone of black gouge between shale and sand above.		
							0.6			Soft loose fine brown oil sand.		
						5.3	6.5		0.5			

TOTAL DEPTH - 4076

ORM 101.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 11 1938
LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Union Oil Company of California Field Long Beach

Well No. Oil Operators 3 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	125	125			Surface clay
125	140	15			Shale and boulders
140	350	210			Sand and shale
350	725	375			Hard sand
725	1058	333			Shale and sand
1058	2419	1361			Sand and streaks of shale
2419	2720	301			Sand and shale
2720	2768	48			Hard sand
2768	2888	120			Hard sand and streaks of shale
2888	2890	2			Shell
2890	2937	47			Hard sand and streaks of shale
2937	3592	655			Shale and streaks of sand
3592	3623	31			Hard sand
3623	3630	7			Shale and streaks of sand
3630	3653	23			Hard sand
3653	3765	112			Shale and streaks of sand
3765	3770	5			Hard sand
3770	3853	83			Sand and streaks of shale
3853	3854	1			Shell
3854	3864	10			Shale
3864	3866	2			Shell
3866	4076	210			Sand and streaks of shale (see core record)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 7646

DIVISION OF OIL AND GAS

LOS ANGELES

Union Oil Co of Calif. Calif. 12/9 1937

Name of Operator

LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4S R. 13W - Long Bch, B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work elec log - Oil Operators 3 - 12/2/37

R. D. BUSH, State Oil and Gas Supervisor

DUPLICATE

AH By E Huguenin Deputy

FORM 127. 46818 7-37 3M

CALIFORNIA STATE PRINTING OFFICE

RM 109-B. 46392 7-37 8750.
ALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T 1-33469

Los Angeles, Calif. December 8, 1937.

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

121

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your well No. "OIL OPERATORS" 3, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach Field, in Los Angeles County, was tested for shut-off of water on December 1 (Time and date), 1937. Mr F. C. Stolz, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present R. Rampton, Engineer, and J. Kewish, Toolpusher.

Location of water tested above 3986' and normal fluid level not determined

Depth and manner of water shut-off: 3986 ft. of 8-5/8 in. 36 lb. / ft. of in. lb. casing was 11-26-37 cemented ~~landed~~ in shale (Formation)

at 3986 ft. with 400 sacks Victor oil well cement by casing method.

Water string was landed in 12¼" rotary (Size, rotary or cable tool) hole.

Casing record of well 13-3/8" cem. 765'; 8-5/8" as above.

Reported total depth of hole 4000 ft. Hole bridged from xxx ft. to xxx ft. Hole cleaned out to 3991 ft. for this test.

At time of test depth of hole measured See below ft. and bailer brought up sample of xxxxx

At See below (Time and date) oil bailed to xxx ft., drilling fluid bailed / swabbed to xxx ft.

At " " (Time and date) top of oil found at xxx ft., top of fluid found at xxx ft.

THE INSPECTOR ARRIVED AT THE WELL AT 8:30 A. M. AND MR. RAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 28' of set cement was drilled out of the 8-5/8" casing (equivalent to 8 sacks).
3. The Johnston tester was run into the hole on 4" drill pipe.
4. The wall packer was set at 3989'.
5. The tester valve was opened at 9:12 a. m. and remained open for 30 minutes. During this interval there was a medium blow of air for 6 minutes, a strong to medium blow of gas for 24 minutes.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 2700' of oil was found in the drill pipe above the tester, equivalent to 38 bbl.
2. The fluid sample taken from the bottom of the drill pipe tasted fresh.
3. The recording pressure bomb chart showed that the tester valve was open for 30 minutes.

The test was completed at 11:50 a. m.

THE SHUT-OFF IS APPROVED.

R. D. BUSH
State Oil and Gas Supervisor

By E. Higuliera Deputy

cc- H. E. Winter
Long Beach
FCS:OH

a.B.

629 South Hill Street
LosAngeles, California
November 24, 1937.

Union Oil Company of California,
Santa Fe Springs, Calif.

Gentlemen: Attention Mr. Henry E. Winter

This will acknowledge receipt of and thank you for your letter dated November 22, 1937, giving the correct elevation and location of your well No. "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field, as follows:

Elevation: 53.88' U. S.G. S.

Location: 982 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 ft. southwesterly at right angles.

Our records have been corrected accordingly.

Yours truly,

E. H.

B:EMS Deputy Supervisor.

CC - Mr. R. D. Bush (2)
Long Beach

Corrections Made as Follows	By Whom
Weekly Summaries	
121	
Elev. and Loc. Cards	
Production Reports	
Well Records: Folders	
Well Records: Reports	
Pro Models	
Graphics	20 CLB
Field Maps	

Book
CLB
11/24/37

FORM 401 9-36 70M
PRINTED IN U. S. A.

Union Oil Company of California

PRODUCERS AND REFINERS OF
CRUDE OIL, FUEL OIL, ROAD OIL AND ASPHALT,
UNION GASOLINE, KEROSENE AND DISTILLATE,
'RED LINE' LUBRICATING OILS AND GREASES.

DIVISION OF OIL AND GAS
RECEIVED
NOV 24 1937
LOS ANGELES, CALIFORNIA

Santa Fe Springs, Calif. Nov. 22, 1937

Mr. E. Huguenin, Deputy Supv.,
Division of Oil & Gas,
Los Angeles, Calif.

Dear Sir:

The elevation of the Union Oil Company well "Oil Operators #3" at Long Beach (Sec. 13-4-13) is 53.88 U.S.G.S.

The corrected location is as follows:

982 ft. N-W'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 ft. Southwesterly at right angles.

Our records have been corrected accordingly.

Very truly yours,
Henry E Winter
District Engineer.

HEW:S

FORM 109-D. 47172 7-37 15M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-33407

Los Angeles, Calif. November 29, 1937.

Mr. Ed. Jussen, Jr.,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by E. R. Murray-Aaron, representative of the supervisor, on November 9, 1937. There was also present R. Rampton, Engineer, and J. Kewish, Drilling Foreman.

Casing Record	Junk
13-3/8" cem. 765'; T.D. 765'.	XXXXX

The operations were performed for the purpose of demonstrating that the known surface waters are adequately protected,

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 8:45 A. M. AND MR. RAMPTON REPORTED THE FOLLOWING:
1. A 17" rotary hole was drilled from the surface to 765'.
2. 770' of 13-3/8" - 45.97 lb. casing was run into the hole to 765'.

THE INSPECTOR NOTED THE FOLLOWING:
1. The 13-3/8" casing was cemented at the reported depth of 765' with 350 sacks of Victor High Early cement.
2. The final pressure was 500 lb.

The operations were completed at 9:30 a. m.

THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT THE KNOWN SURFACE WATERS ARE ADEQUATELY PROTECTED.

cc- H. E. Winter
Long Beach
ERMA:OH

R. D. BUSH
State Oil and Gas Supervisor

By E. Hugselin Deputy

FORM 111. 46011 6-37 20M.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-31535

Los Angeles, Calif. November 4, 1937

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to drill Well No. "OIL OPERATORS" 3,

Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County,

dated Oct. 28, 1937, received Oct. 29, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

"The well is ~~355 feet W'ly along the center line of San Antonio from the center line of Del Mar Ave. and thence 925' N'ly at right angles.~~ 53.88 ft.
The elevation of the derrick floor above sea level ~~will be determined later - approx. 55 ft.~~
We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less."

PROPOSAL:

"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing	Weight	New or Second Hand	Depth	Landed or Cemented
13-3/8"	46	New	700'	Cmtd.
8-5/8"	36	New	4000	Cmtd.
6-5/8"	Perforated liner	New	4100'	Landed

Well is to be drilled with rotary tools.
It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
   (b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.
3. The formations to be left back of the 8-5/8" casing shall be mudded by open circulation until the loss is not more than 5 bbl. per hr.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   (a) The cementing of the 13-3/8" surface casing.
   (b) Final mudding operations before cementing the 8-5/8" casing.
   (c) A test of the effectiveness of the 8-5/8" shut-off.

*982 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 feet southwesterly at right angles. (Correction letter 11-24-37)

cc- H. E. Winter
Long Beach
WJC:OH

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy

FORM 105. 24758 9-35 10M
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL AND GAS
RECEIVED
OCT 29 1937
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice must be given before drilling begins

037-06496

General Exploration Co. Santa Fe Springs Cal. Oct. 28, 1937

MR. E. HUGUENIN

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

P1-31535

DEAR SIR:

"Oil Operators" 3

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M., Long Beach Oil Field Los Angeles County.

Lease consists of 982 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 feet south-

The well is 355 W'ly along the center line of San Antonio from the center line of Del Mar Ave. and thence 925' N'ly at right angles. feet XXXXX, and XXXXXXXXXXXX

(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is Will be determined later - 53.88 feet. approx. 55 ft. westerly at right angles. (Correction letter 11-24-37)

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	New or Second Hand	Depth	Landed or Cemented
13-3/8"	46	New	700'	Cmtd.
8-5/8"	36	New	4000	Cmtd.
6-5/8"	Perforated liner	New	4100'	Landed

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less.

Respectfully yours

Address Santa Fe Springs, Calif.

UNION OIL COMPANY OF CALIFORNIA
(Name of Company or Operator)

Telephone number Whittier 42687

By Henry E Winter
District Engineer.

Reference to file of data

Maps	Model	Use Tool	Cards		
				✓	✓

ADDRESS NOTICE TO DEPUTY STATE OIL AND GAS SUPERVISOR IN CHARGE OF DISTRICT WHERE WELL IS LOCATED

Wildcat - Wall
Topog - #54
SHR

Wildcat Book
CLB
10/29/37

S[redacted] LOGS

Pacific Energy Resources Ltd.

"Oil Operators" 1
NWLBU 8-1
Sec. 13-4S-13W.
LONG BEACH

C[redacted] 1937
F[redacted] 13-3W
W[redacted] ft.

WEST LONG BEACH
Union Oil Co.
Oil Operators #1
UN No. C. 4-100

Casing shoe depth:	Driller	757 ft.	Started run	5:45 p m.
	Schlumberger	757 ft.	Finished run	8:00 p m.
Bottom Depth:	Driller	4041 ft.	Time well occupied by outfit	2¼ h.
Max. depth reached by lower elect		4043 ft.	Time waiting at well	0:45 h.
Max. footage measured (p or S. P.)		3286 ft.	Mileage incurred by run	15 M.
Footage missed		-- ft.	Total time incurred by run	4 h.

MUD CHARACTERISTICS

121

NATURE : natural VISCOSITY : 34 LEVEL :
DENSITY : 73 RESISTIVITY : 10½

DIAMETER OF HOLE

1-263

12¼" to 4000 ft.
7-5/8" to 4041 ft.

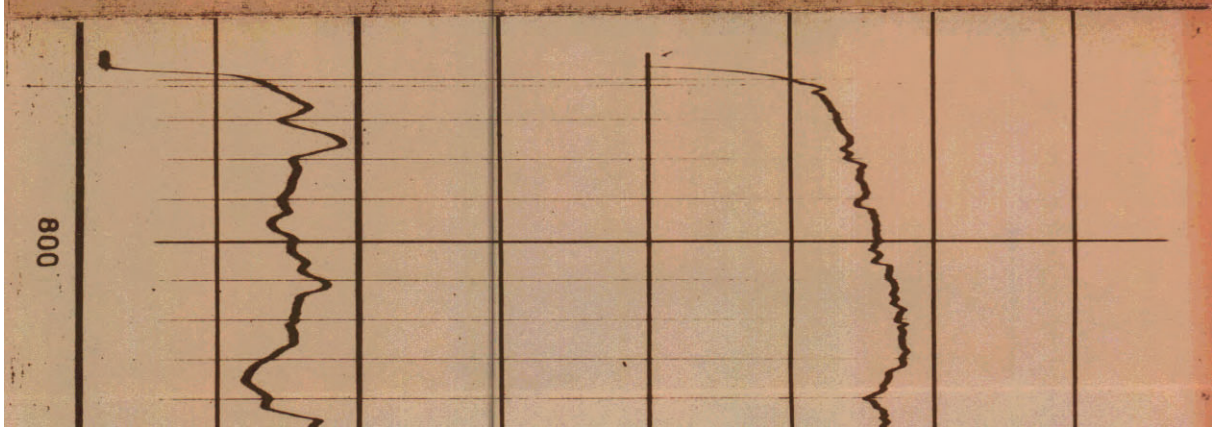
REMARKS

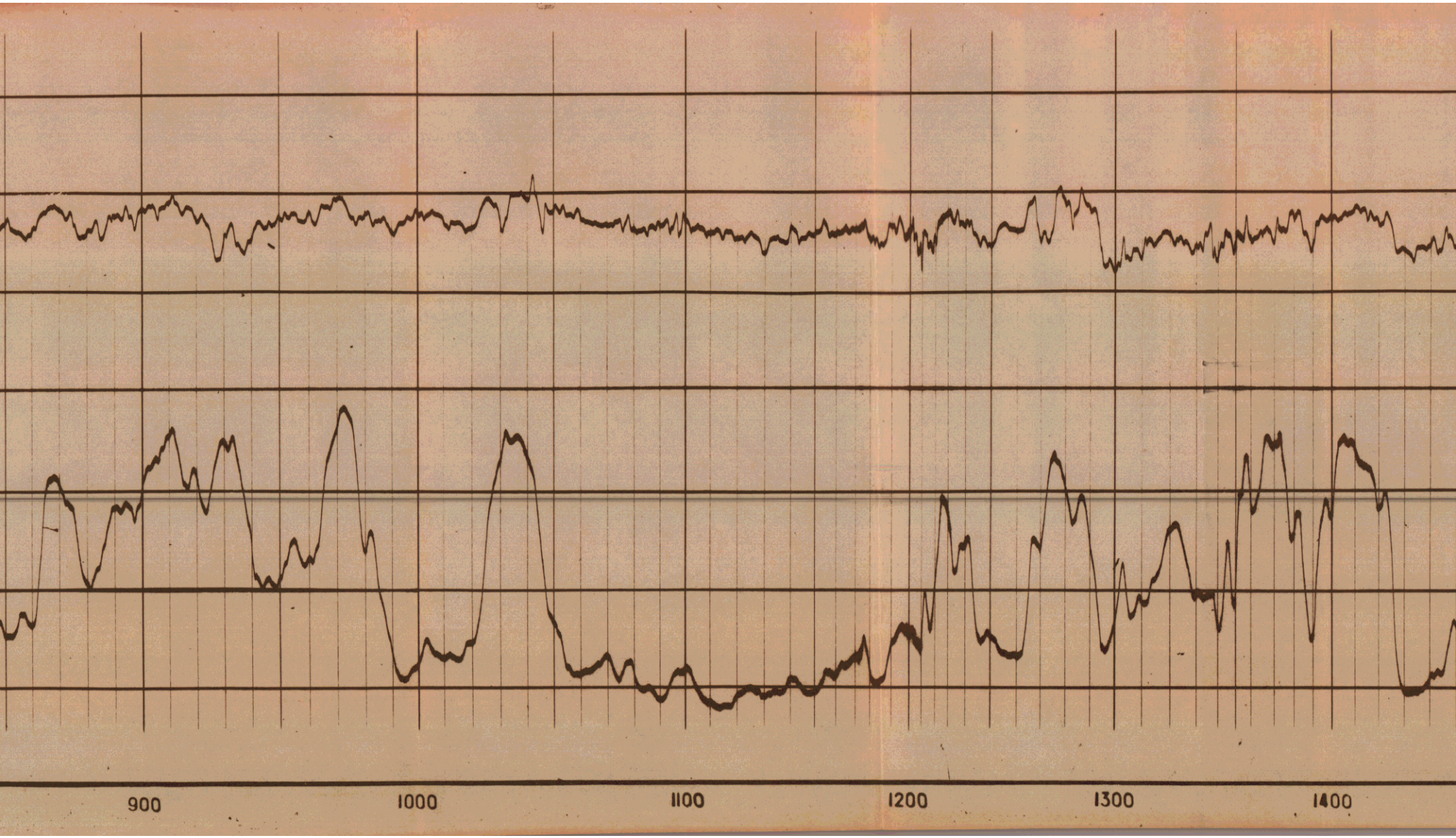
Device: 20"

Witnessed By : Mr. Winter

OBSERVERS : J. WALSTROM

DEPTH	RESISTIVITY LOG ohms. m²m	POROSITY LOG millivolts
	0 15 30	-------150 m.v.---------

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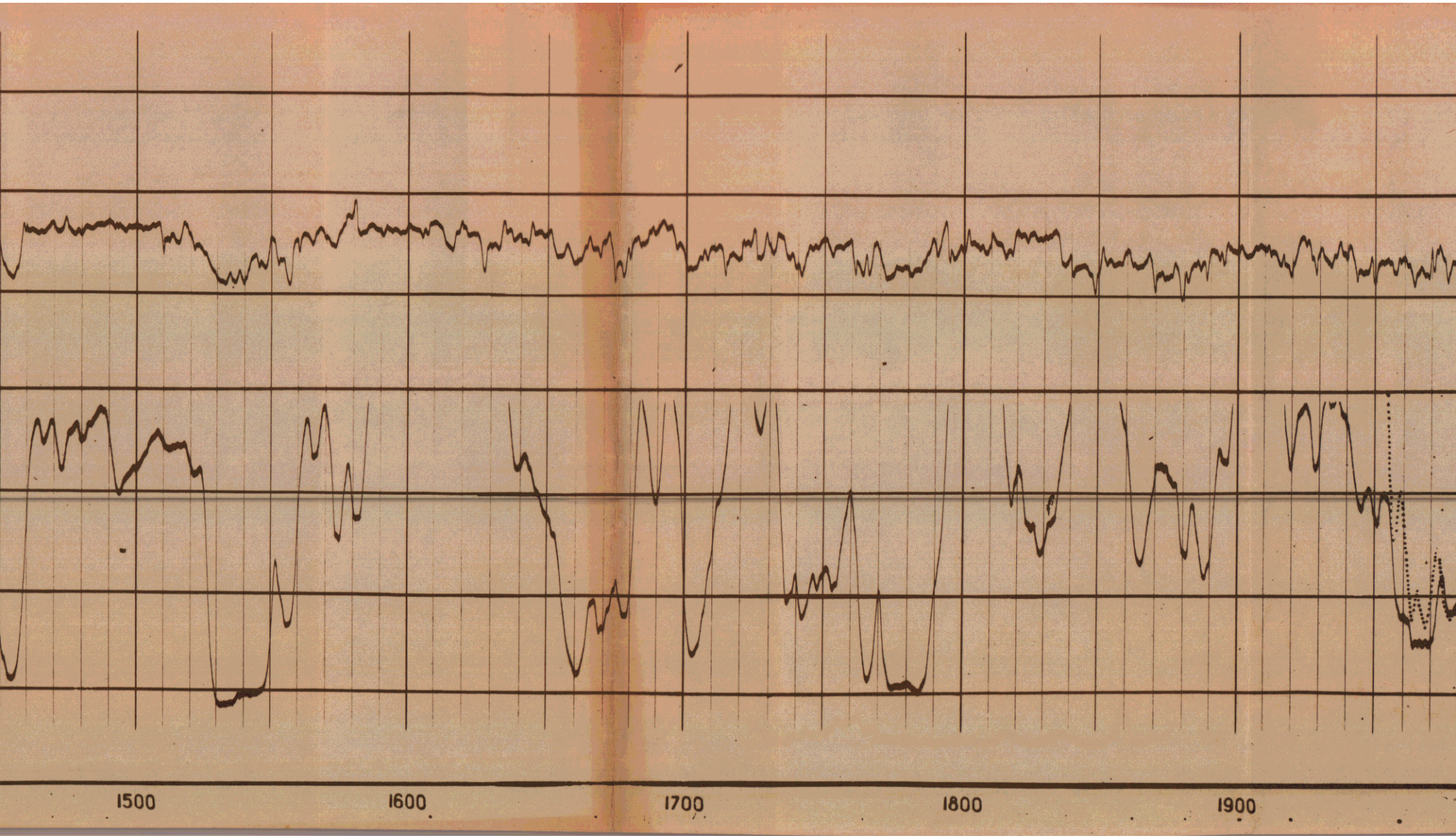
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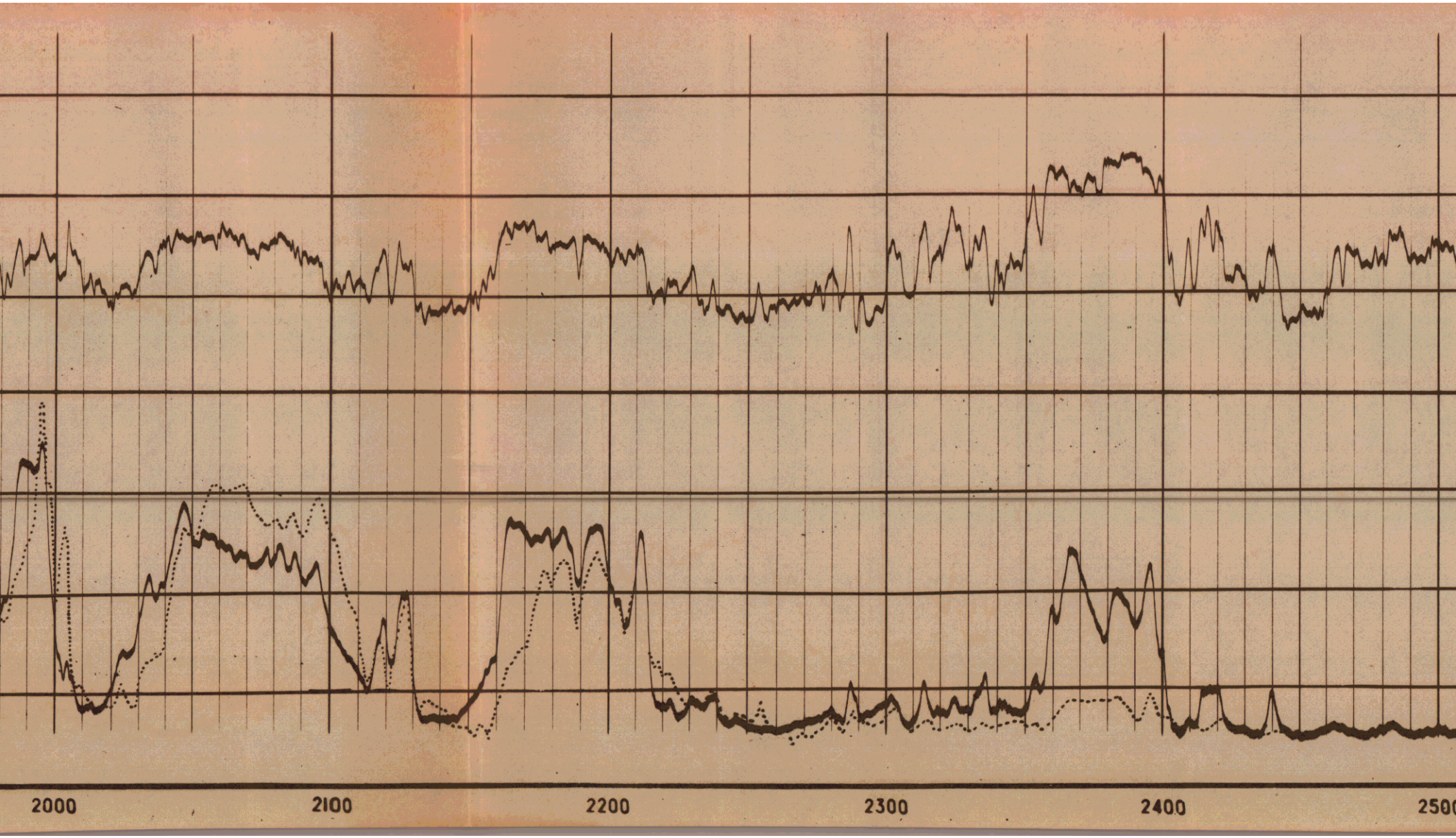
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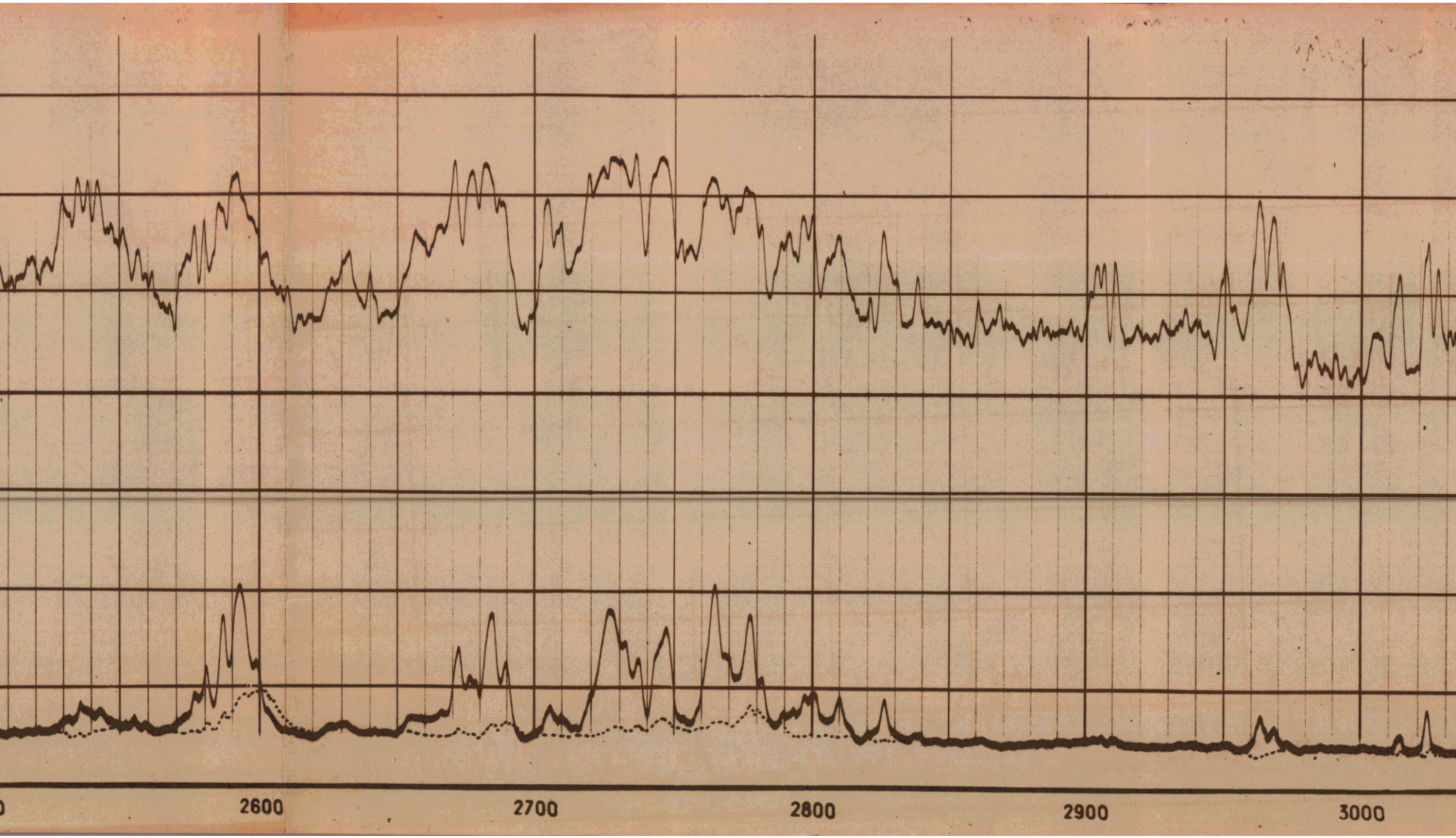
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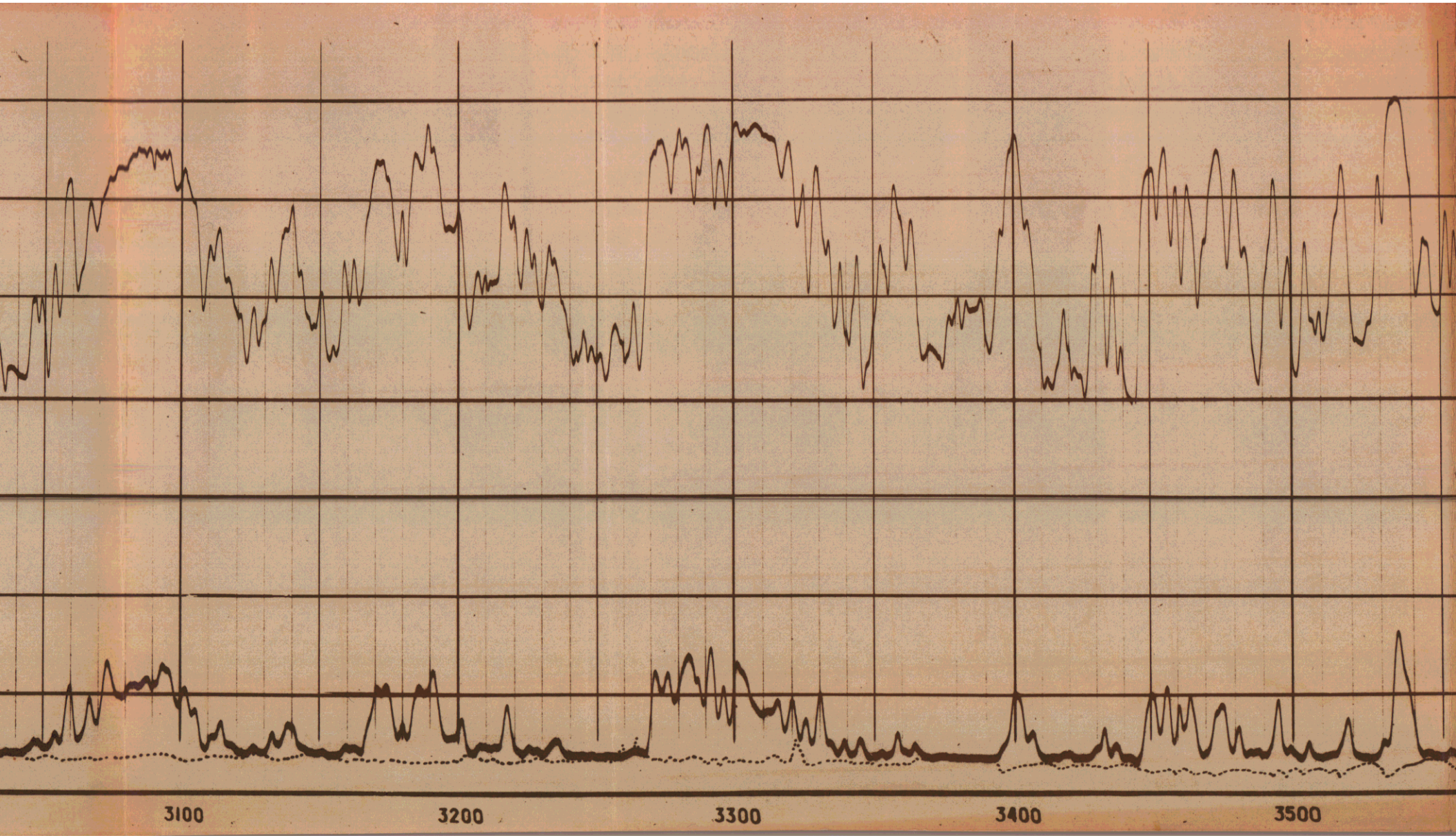
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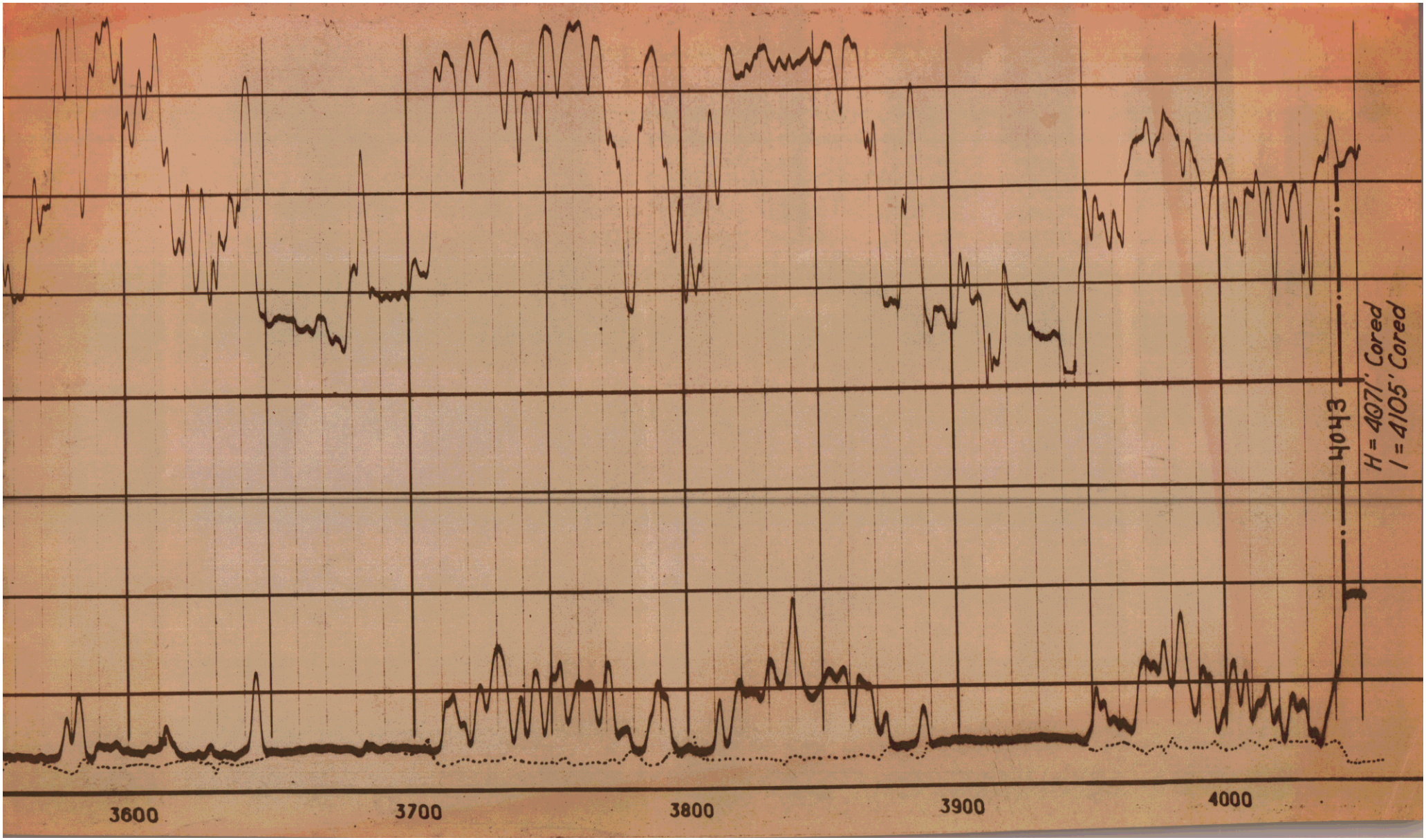

H = 4071' Cored
I = 4105' Cored
3600
3700
3800
3900
4000

RECEIVED 1-263

Pacific Energy Resources Ltd.

(037-09792)

~~"Oil Operators" 1~~

NWLBU 8-1

Sec. 13-4S-13W. LONG BEACH

S... RGER

...ATION

COMPANY: UNION OIL COMPANY OF CALIFORNIA

FIELD: Long Beach

WELL: Oil Operators #1

COUNTY: Los Angeles

FILING NO: C-5-1493

CO... IA

WELL: Oil Operators #1

RUN NO: Second

ELEVATION: Sec 13-4S-13W

SMB

FIELD: Long Beach

Reference to file of data

COUNTY: Los Angeles

STATE: California

Casing shoe depth:	Driller	4105 ft.	Started run	4:15 p. m.
	Schlumberger	ft.	Finished run	5:45 p. m.
Bottom Depth:	Driller	4532 ft.	Time well occupied by outfit	1½ h.
Max. depth reached by lower elect		4532 ft.	Time waiting at well	¼ h.
Footage measured		427 ft.	Mileage incurred by run	10 M.
Footage missed		1 ft.	Total time incurred by run	3 h.

1-263

1-263

DIAMETER OF HOLE

from ..... to 4532' 7-5/8"

from ..... to .....

from ..... to .....

Bottom Temperature 126 °F

MUD CHARACTERISTICS

Nature: Natural

Weight: 72

Viscosity: 500 cc Marsh Funnel 32

Resistivity: 8.9 @ ..... °F

REMARKS

Device: Long

Note: 60 Ohms scale attached at bottom

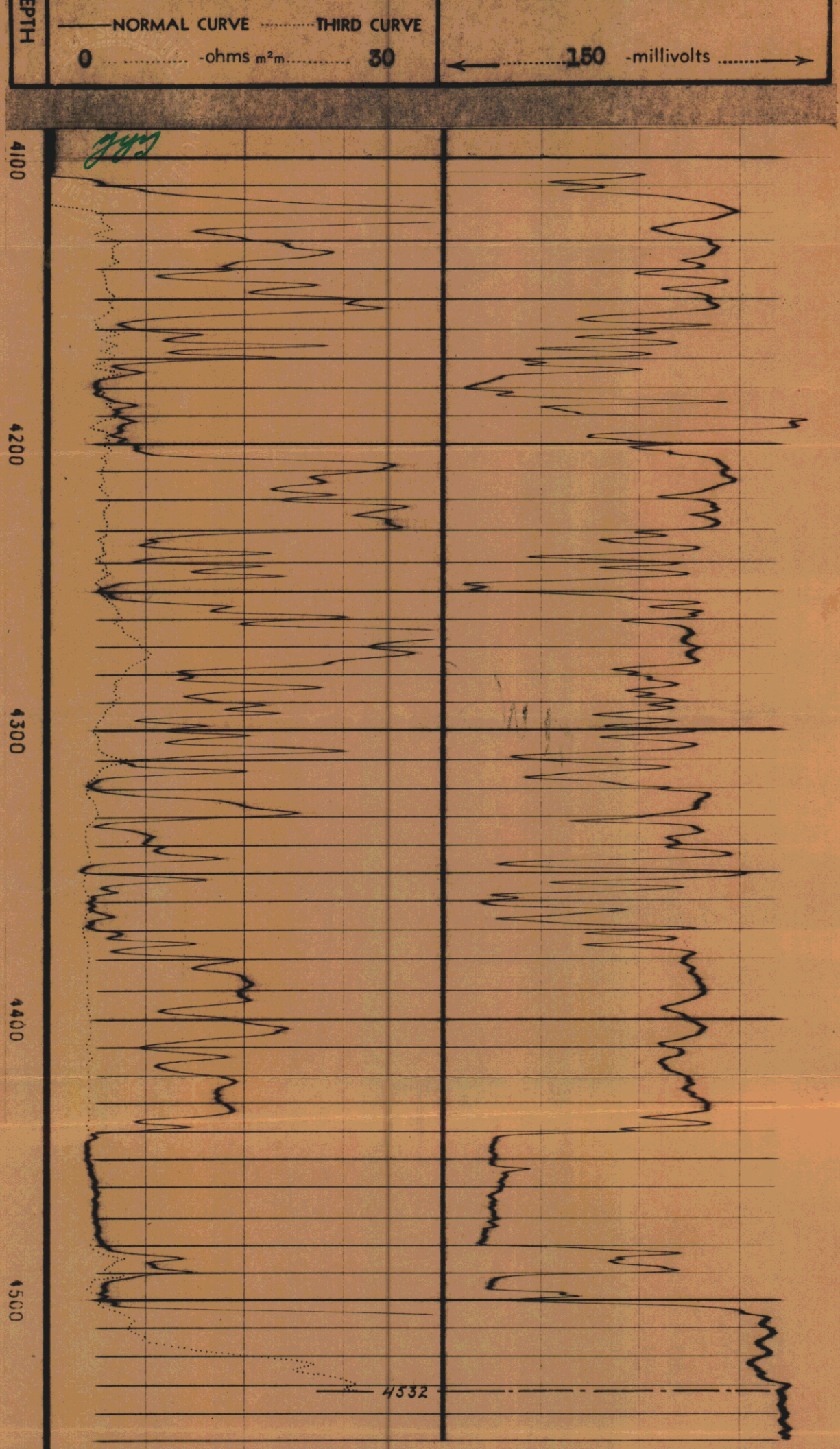
Depth measurements taken from: Top of rotary table

Maximum Pull 1800 lbs. at 4532 ft.

Witnessed By: Mr. Winter

DATE August 13, 1939 OBSERVERS V. T. FANT

D	RESISTIVITY	SELF-POTENTIAL


EPTH
NORMAL CURVE
THIRD CURVE
0
-ohms m²m
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-millivolts
4100
4200
4300
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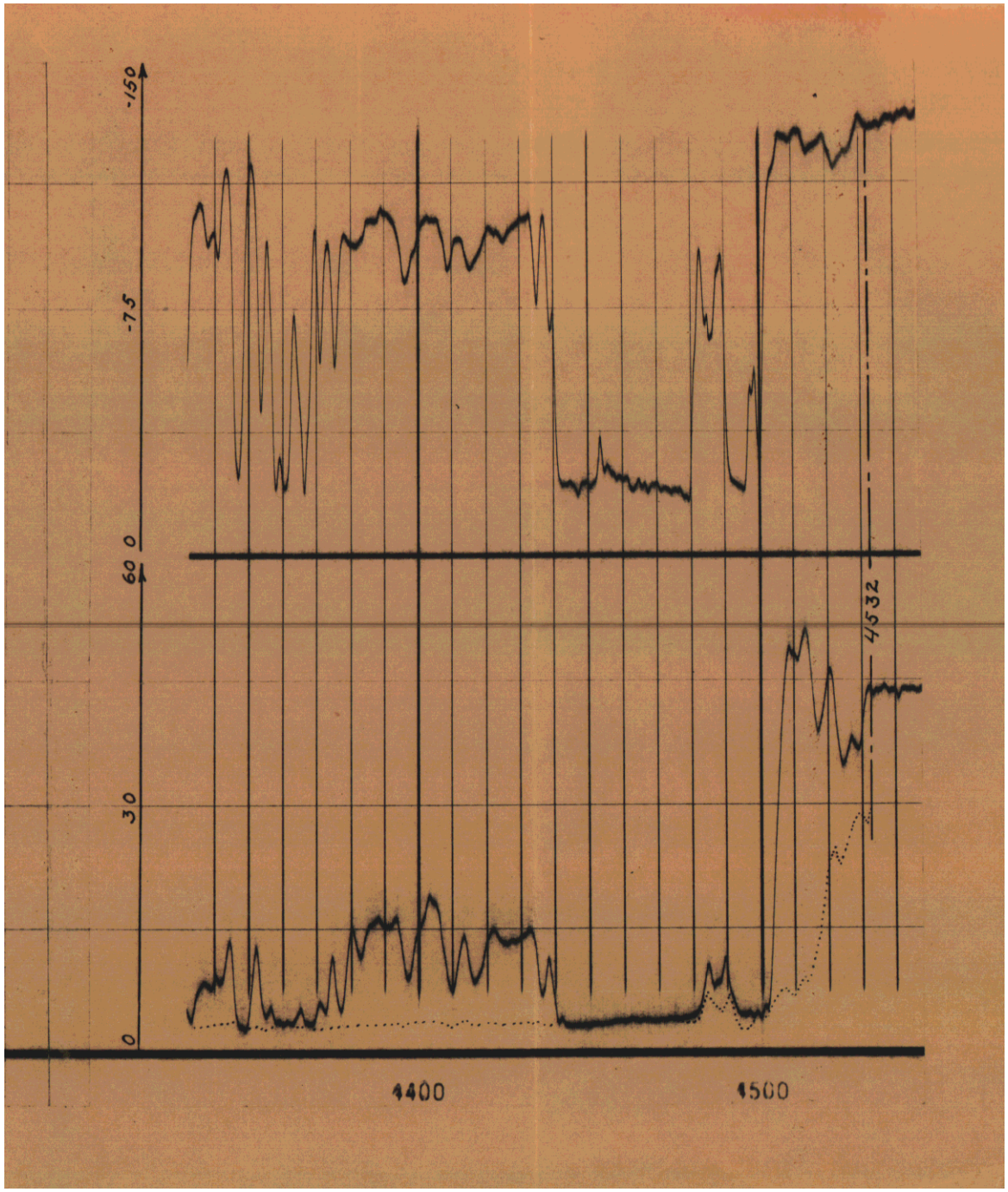
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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or county Wilmington, Long Beach, Montebello, Rosecrans, Rosecrans East, Torrance, and Newport West.		District One/Cypress
Former owner Pacific Energy Resources	Operator code P0250	Date 7/10/2007
Name and location of well(s) See Attatchment		
Description of the land upon which the well(s) is (are) located See Attachment		

Date of transfer, sale, assignment, conveyance, or exchange 06/14/2007	New owner Pacific Energy Resources Ltd.	Operator code P0250	Type of organization Partnership
	Address 111 West Ocean Blvd Long Beach, CA 90802		Telephone No. (562) 628-1526

Reported by OG30A Both Signed	
Confirmed by	
New operator new status (status abbreviation) PA	Request designation of agent Darren Katic, Agent
Old operator new status (status abbreviation) NPI	Remarks See Operator File

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor R.K. Baker	Signature Kenneth Carlson Ken Carlson Associate Engineer

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121			Map and book		
Form OGD140			Notice to be cancelled		
New well cards			Bond status	VM	7-11-07
Well records			EDP files		
Electric logs			Computer Files	VM	7-11-07
Production reports					

OGD156 (5/98)

WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY CORP.
SEE OGD156 DATED 5-13-94

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Long Beach, California

March 9, 1993

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Your report of the plugging and abandonment of well **NWLBU 8-1**, A.P.I. No. **037-09792**, Section **13**, T. **4**S, R. **13**W, S.B. B.& M., **Long Beach** Field, **Los Angeles** County, dated **10-6-92**, received **10-7-92**, has been examined in conjunction with operations witnessed and records filed in this office. We have determined that all of the requirements of this Division have been fulfilled.

NOTE: Surface plugging completed on **7-3-92**.

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

By R.C. Manuel
For R. K. Baker, *Deputy Supervisor*

KMCdf

cc: Update
Conservation Committee
L.A. County Assessor
L.A. County Fire Prevention Bureau
Don Callow, City of Signal Hill

OG159

DIVISION OF OIL AND GAS

CHECK - RECORDS RECEIVED AND WELL US

Company Peto Resources, Inc. Well No. NWLBU 8-1

API No. 037-09792 Sec. 13, T. 4S, R. 13W, S.B. B.&M.

County Los Angeles Field Long Beach

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	10/7/92 (D)
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

10-6-92

STATUS		STATUS	
Producing - Oil		Water Disposal	
Idle - Oil		Waterflood	
Abandoned - Oil		Steamflood	
Drilling - Idle		Fire Flood	
Abandoned - Dry Hole		Air Injection	
Producing - Gas		Gas Injection	
Idle - Gas		CO_2 Injection	
Abandoned - Gas		LPG Injection	
Gas-Open to Oil Zone		Observation	
Gas Storage		Waterflood Source	

DATE _____ "E" well Yes ☐ No ☐

RECOMPLETED

REMARKS

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) ✓
2. Electric Log
3. Operator's Name ✓
4. Signature ✓
5. Well Designation
6. Location
7. Elevation
8. Notices ✓
9. "T" Reports ✓
10. Casing Record
11. Plugs ✓
12. Surface Inspection ✓
13. Production
14. E Well on Prod., enter EDP
15. Directional Survey

CLERICAL CHECK LIST

1. Location change ____ (F-OGD165)
2. Elevation change ____ (F-OGD165)
3. Form OGD121 fc
4. Form OG159 (Final Letter) 3/9/93
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)
8. EDP (F-OGD42A-1, 2)

Surf. Insp. 2/14/92 GM

Final Letter

UPDATE CENTER 3-22-93

RECORDS NOT APPROVED

Reason:

RECORDS APPROVED Km 2/11/93

RELEASE BOND

Date Eligible

(Use date last needed records were received.)

MAP AND MAP BOOK F.S.L. 3-8-93

LONG BEACH OFFICE - USE REVERSE SIDE

OGD2 (6/91/GSR1/5M)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Petro Resources, Inc. Field Long Beach County Los Angeles
Well NWLBU 8-1, Sec. 13, T 4S, R 13W, S.B. B. & M.
A.P.I. No. 037-09792 Name Joe D. Rose (Person submitting report) Title Manager (President, Secretary or Agent)
Date Oct. 6, 1992

Signature

4200 Easton #16, Bakersfield, Ca. 93309 (Address) (805)323-4118 or 323-6922 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1/31/84	Ran 3-3/4" bailor to 518'. Bailed pieces of wood. Ran 6-3/4" bit.
2/3/84-2/6/84	Drill and mill wood and steel to 558'. Ran I.B., appears to be angle iron in hole. (Mill worn down on outside 6" diameter).
6/2/92	MIRU Finley Oilwell Service.
6/3/92	7" I.B. to 551'. Mark on outside of 7". Ran in sawtooth on 2-7/8" to 551'. Ran 1-1/4" tubing to 551'. No go.
6/4/92	Pickup power swivel,spools for wellhead etc. Short day.
6/5/92	Ran 7-3/8" shoe and 1 ft. washover pipe. Wash 551-554'. Pull @ 25,000# to free string. No fish. 2' worn inprint inside shoe.
6/8/92	Ran 7" shoe with skirt drill 551-555'. Torque up, pull 32,000#, slipped off. Ran again to 554', won't go. Torqued up.
6/9/92	Ran 7-3/8" x 6-5/8" ID diamond friction shoe -- no catch. Diamond friction springs flattened. Ran 7-5/8" bit drill hard, torquing, getting wood and metal. Drill to 555'.
6/10/92	Ran piloted cone buster mill 554-556'. Torqued up. 7" I.B., no impression. Ran 6-3/4" junk mill, flat bottomed. Mill 556-557'. Ran I.B., indicated 6" OD metal tube looking up.
6/11/92	Ran 4-3/8" magnet. Recovered 2 gallons of metal pieces and wood. Bolt pieces, pipe fragments, etc. Ran 4-5/8" mill, mill to 558', Ran I.B. - indeterminate.
6/12/92	Ran 4-1/2" washover shoe, c.o. to 564'. POOH, recover 6' - 3-1/2" OD metal tube split and twisted w/ID of interior full of redwood pieces and splinters. Ran again, wouldn't go. Blanks off like we are inside of a core inside of wood.
6/15/92	Ran 4-9/16" junk mill, c.o. to 573'. Lots of wood and some metal shavings. Ran 7-5/8" 2 cone bit, c.o. to 575'. Wood and metal.
6/16/92	Ran 2 prong spear. Recover 3' of 1" drilling line. Re-run. Recover misc. wire pieces, metal and wood. Ran magnet, a gallon of pieces of metal.
6/17/92	Load out tools. Rig up 10-900 double gate BOP. Shoot 8- 1/2" holes 578-70'. RIH with Baker permanent cement retainer set at 537'. Pump away at 0-200 psi.
6/18/92	Pump 250 sx. cmt. through retainer and out perfs. Open valve between 8-5/8" and 13-3/8" casing and circulate. Spot 273 sx - pull out of the retainer and circulate 162 sx. inside 8-5/8" casing, filling the 8-5/8" from 578' to surface, and 250 sx. of cement pumped away down from 578' on the outside of the 8-5/8" casing. Total 685 sx. cement.
7/3/92	Cut off casing 8' below ground level and welded on metal cap. Both strings observed to be full of cement.

RECEIVED
92 OCT -7 PM 1:28
DIVISION OF OIL & GAS
LONG BEACH, CA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

No. T 192-610

Report on Operations

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach Calif.
July 13, 1992

Your operations at well NWLBU 8-1, API No. 037-09792,
Sec. 13, T. 4S, R. 13W, S.B. B. & M. Long Beach
Field, in Los Angeles County,
were witnessed on 7-3-92. J. Hebein, Engineer, representative of
the supervisor, was present from 1400 to 1405.
There were also present Dave Dahlman
Present condition of well: 13 3/8" cem 757'; 8 5/8" cem 4105', cp 570'; 6 5/8" ld 4024'-4529', cp 4475'. Junk below 580'. TD 4532'. Bp 4200'. Plugged w/cem 4529'-4443', 4200'-4124', w/523 sx cem below 535' & w/cem 535'-8'.

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

DECISION:

APPROVED.

NOTE: The required Class II2M blowout prevention equipment was inspected and approved on 6-18-92.

DEFICIENCIES: None.

CONTRACTOR: Finley Oil Well Service, Inc.

Surface Inspection Approved 7-14-92
gm

JH:df

cc: Update
Callow, Signal Hill

K. P. Henderson, Acting Chief
State Oil and Gas Supervisor
By R. C. Manner
Deputy Supervisor
for R. K. Baker

OG109 (9/91/GSR1/5M)

EDP 7-10-92

192-610 lm 7/10/92

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator Petro Resources, Inc. Well No. NWLBU 8-1
API No. 037-09792 Sec. 13, T. 4S, R. 13W, S.B. B&M
Field Long Beach, County Los Angeles. On 7/3/92,
Mr./~~Ms.~~ J. Hebein, representative of the supervisor, was present from 1400 to 1405.
There were also present Dave Dahlman, Pacific Energy Resources

Casing record of well: 13 3/8 cem 757'; 8 5/8 cem 4105', cp 570'; 6 5/8 ld 4024'-4529', cp 4475'. Junk below 580'. TD 4532'. Bp 4200'. Plugged w/cem 4529'-4443', 4200'-4124', w/523 sx of cem below 535' + w/cem 535'-8'.

The operations were performed for the purpose of (L)

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____' is approved.

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
				6/18/92	Ret. @ 535'		returned	6'	523 SX	300	8 1/2" holes @ 570'

B/D 26 gt/m @ 200 psi.

Casing/tubing recovered: _____" shot/cut at _____', _____', _____' pulled fr. _____';
_____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): below 580'

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.

- NOTE (K) II 2M 6/18/92

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
6/18/92	162 Sx / 523 Sx	Ret. @ 535'	0900	M. Saw	8' *	visual	7/3/92 1403	J. Hebein

C/O 580', bad csg @ 551'
* plate welded on 20" conductor

OGD10 (9/91/GSR1/5M)

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Finlay Oil Well Service, Inc.

API No. _____ DIVISION OF OIL AND GAS T_____

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator Petro Resources, Inc. Well NWLBU 8-1
Field Long Beach County L.A. Spud Date

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	6/18/92	M. Saw	(0850 to 0900)	J. Meyers	R.F.
2nd			(to)		

Contractor _____ Rig # _____ Contractor's Rep. & Title _____
Casing record of well: _____

MEMO

OPERATION: ~~Testing~~ (inspecting) the blowout prevention equipment and installation.
DECISION: The blowout prevention equipment and its installation on the _____" casing are approved.

Proposed Well Opns: Abandon . MACP: _____ psi
Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

REQUIRED BOPE CLASS: II 2M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recovery Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
Rd	2/8	Shaffer	Mech	8	3000	—							
Rd	CSO	"	"	8	"	—							
						TOTAL:							

ACTUATING SYSTEM
Accumulator Unit(s) Working Pressure _____ psi
Total Rated Pump Output _____ gpm
Distance From Well Bore _____ ft.

	Accum. Manufacturer	Capacity	Precharge
1		gal.	psi
2		gal.	psi

CONTROL STATIONS	Elec.	Hyd.	Pneu.
Manifold at accumulator unit			
Remote at Driller's station			
X Other: Handwheels			

EMERG. BACKUP SYSTEM			Press.	Wkg. Fluid
N_2 Cylinders	1	L= "		gal.
Other:	2	L= "		gal.
	3	L= "		gal.
	4	L= "		gal.
	5	L= "		gal.
	6	L= "		gal.
		TOTAL:		gal.

AUXILIARY EQUIPMENT

	No.	Size (in.)	Rated Press.	Connections Weld	Flange	Thread	Test Press.
Fill-up Line							
X Kill Line		2	2000			X	
Control Valve(s)							
Check Valve(s)							
Aux. Pump Connect.							
Choke Line							
Control Valve(s)							
Pressure Gauge							
Adjustable Choke(s)							
Bleed Line							
Upper Kelly Cock							
Lower Kelly Cock							
Standpipe Valve							
Standpipe Press. Gauge							
X Pipe Safety Valve		2/8	2000				
Internal Preventer							

HOLE FLUID MONITORING EQUIPMENT	Alarm Type Audible	Visual	Class
Calibrated Mud Pit			A
Pit Level Indicator			B
Pump Stroke Counter			B
Pit Level Recorder			C
Flow Sensor			C
Mud Totalizer			C
Calibrated Trip Tank			C
Other:			

Hole Fluid Type	Weight	Storage Pits (Type & Size)

REMARKS AND DEFICIENCIES: _____

OGD9 (12/90/GSR1/2M)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P 192-651

412 (field code)
03 (area code)
-- (new pool code)
00 (old pool code)

PERMIT TO CONDUCT WELL OPERATIONS

Joe D. Rose
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach, California
June 16, 1992

Your _____ proposal to abandon well NWLBU 8-1, A.P.I. No. 037-09792, Section 13, T. 4S, R. 13W, S.B. B.& M., Wilmington field, Northwest Extension area, -- pool, Los Angeles County, dated 6-12-92, received 6-15-92, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, equivalent to this division's Class II2M requirements, or better, shall be installed and maintained in operating condition.
2. All portions of the hole not plugged with cement shall be filled with clay base mud having a minimum density of 72 lb/cu ft and a minimum gel-shear strength of 25 lb/100 sq ft.
3. This division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
4. THIS DIVISION SHALL BE NOTIFIED TO:
   a. Witness the clean-out depth.
   b. Witness the placing, location and hardness of the cement plug from 550' to 5' inside and outside the 8 5/8" casing.
   c. Inspect and approve the cleanup of the well site.

NOTES:

1. A crew drill may be required at the time of the blowout prevention equipment inspection.
2. The proposed surface plug shall not contain rock or gravel.
3. The base of the freshwater sands is at 2100'±.
4. Report on Operations (OG 109) (T-Report) and Report of Well Abandonment (OG 159) will not be released until all records and histories are on file with this Division.
5. This Division does not recommend building over or in proximity of this well.

KMC:ss

cc: Update
Don C. Callow, City of Signal Hill

BLANKET BOND

Engineer Kenneth M. Carlson

Phone (310) 590-5311

K.P. HENDERSON, Acting Chief

By R.C. Manuel
For R.K. Baker, Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111

OG

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin.

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS 114	FORMS 121
6/12/92	BB 6/12/92	6/12/92	6/12/92

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWLBU 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County. commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532', junk @ 551'

2. Complete casing record, including plugs and perforations:
13-3/8" csg. cmtd. @ 757'
8-5/8" csg. cmtd. @ 4105'
6-5/8" 4024-4529', cp @ 4475'.
PB 4520-4443', BP @ 4200'. Cmt. plug 4200-4124'.

3. Last produced N-A
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)

or

4. Last injected Never
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Additional data for dry hole (show depths)

5. Oil or gas shows

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 2100'

The proposed work is as follows:

1. Perforate 8 - 1/2" holes at 550'.
2. Set cement retainer at 500', squeeze 250 sxs. through retainer to squeeze below shoe of 13-3/8" surface casing.
3. Peforate 8- 1/2" holes at 480'. Establish circulation between 8-5/8" and 13-3/8" casings. Circulate cement leaving 8-5/8" and annulus between 8-5/8" & 13-3/8" full of cement - use 500 sx. cmt.
4. Cut off casing strings 6' below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 4200 Easton #16 (Street)
Bakersfield, Ca. 93309
(City) (State) (Zip)
Telephone Number (805) 323-4118

Petro Resources, Inc. (Name of Operator)
By Joe D. Rose (Name) 6-12-92 (Date)
Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

FORM 108 (REV. 1-73)

10341-705 1-73 10M ⓑ OSP

~~Fax~~

Jan Hunt N

(310) ~~[illegible]~~ Fax

595 0310

Peter

Vern Rice

NWLB 8-1[illegible]

FINLEY OILWELL SERVICE INC.
• DRILLING
• PULLING
• BAILING

VERN RICE

PRODUCTION SUPERINTENDENT

Mailing Address
P.O. Box 92527
Long Beach, CA 90809-2527

2945 Junipero Ave.
Signal Hill, CA
(213) 595-4505

RECEIVED
92 JUN 15 PM 1:35
DIVISION OF OIL & GAS
LONG BEACH, CA

TO: Ken

ROOM/STA. NO.

FROM: Vern

ROOM/STA. NO.

REPRESENTING

DATE: 6-16 | TIME: 11:45 | PHONE: (310) 595-4505 | ATSS ☐

☐ Telephoned ☐ Please call ☐ Was In
☐ Returned Call ☐ Will Call Again ☐ Wants To See You

☐ Information ☐ Comment ☐ Investigate ☐ Contact Me

NOTE and: ☐ Re-route ☐ Return ☐ File

REPLY: ☐ My Signature ☐ Copy Me ☐ Forwarded Per Request

MESSAGE/REMARKS

Did you fax the notice yet?

BY FAX (310) 595-0310

STATE OF CALIFORNIA
MESSAGE
STD 7 (REV 1/90) 89 54047

PROTECT YOUR INFORMATION ASSETS

OG

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin.

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS 114	FORMS 121
6/12/92	BB 6/12/92	6/12/92	6/12/92

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWLBU 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County, commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532', junk @ ~~551'~~ 560'

2. Complete casing record, including plugs and perforations:
13-3/8" csg. cmtd. @ 757'
8-5/8" csg. cmtd. @ 4105'
6-5/8" 4024-4529', cp @ 4475'.
PB 4520-4443', BP @ 4200'. Cmt. plug 4200-4124'.

3. Last produced N-A (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)

or

4. Last injected Never (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Additional data for dry hole (show depths)

5. Oil or gas shows

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 2100'

The proposed work is as follows:

1. Perforate 8 - 1/2" holes at 550'.
2. Set cement retainer at 500', squeeze 250 sxs. through retainer to squeeze below shoe of 13-3/8" surface casing.
3. Peforate 8- 1/2" holes at 480'. Establish circulation between 8-5/8" and 13-3/8" casings. Circulate cement leaving 8-5/8" and annulus between 8-5/8" & 13-3/8" full of cement - use 500 sx. cmt.
4. Cut off casing strings 6' below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 4200 Easton #16 (Street)
Bakersfield, Ca. 93309
(City) (State) (Zip)

Telephone Number (805) 323-4118

Petro Resources, Inc. (Name of Operator)

By [signature] (Name) 6-12-92 (Date)
Joe D. Rose

Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

FORM 108 (REV. 1-73)

10541-708 1-73 10M © CSP

RECEIVED

92 JUN 12 AM 11:01

DIVISION OF OIL & GAS
LONG BEACH, CA

PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

To : KEN CARLSON DIVISION OF O&G

Receiving FAX telephone : 310/590/5301

1 more page follows this cover page

Sent by :

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, , CA 93309

FAX Telephone : 805/323/8567
Voice Telephone : 805/323/4118

In case of trouble, contact : 805 323 4118

Sent on 06-12-1992 at 10:56

RECEIVED

92 JUN 12 AM 11:01

DIVISION OF OIL & GAS
LONG BEACH, CA

PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

To : KEN CARLSON DIVISION OF O&G

Receiving FAX telephone : 310/590/5301

1 more page follows this cover page

Sent by :

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, , CA 93309

FAX Telephone : 805/323/8567
Voice Telephone : 805/323/4118

In case of trouble, contact : 805 323 4118

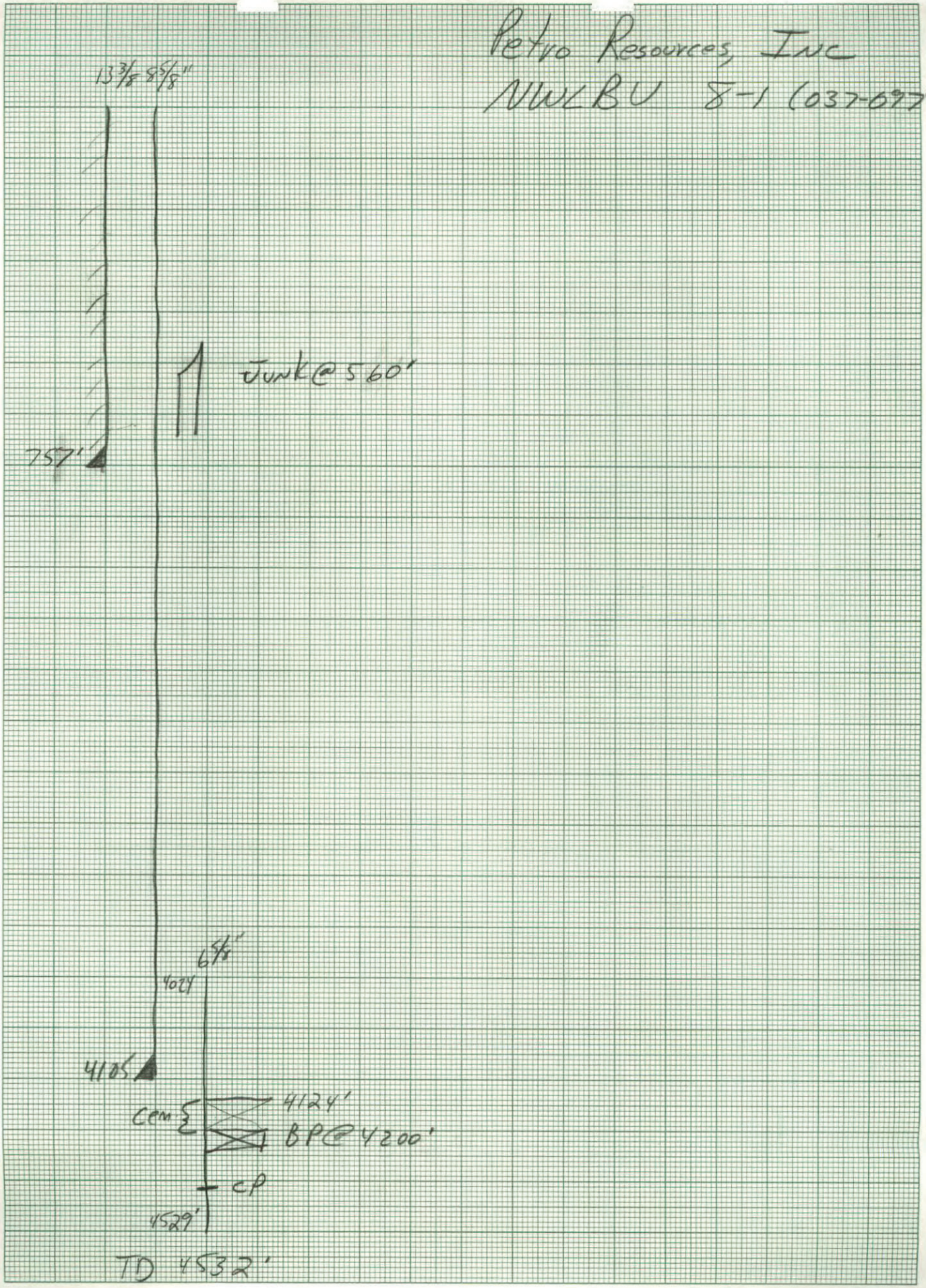
Sent on 06-12-1992 at 10:56

RECEIVED

92 JUN 12 AM 11:01

DIVISION OF OIL & GAS
LONG BEACH, CA

Petro Resources, Inc
NWLBU 8-1 (037-09792)



46 1510
K+E 10 X 10 TO THE CENTIMETER 18 X 25 CM.
KEUFFEL & ESSER CO. MADE IN U.S.A.

PETRO RESOURCES I

Cost Sheet 6-2-92 thru 6-11-92 NWLB 8-1

		Daily	Accum.
John M Phillips Co. :	12-900 x 8-900 X-OVER SPOOL	20.00	180.00
	8-900 PGSR	25.00	225.00
	1 EA 3½ IF P/ Lifter	15.-5.	30.00
	1 SET 4½" Tong JAWS	45.-45.	135.00
	1 SET 4½" SLIP INSERTS	20.-20.	60.00
	2 EA 4 3/4" DRILL COLLARS	10.-5.	50.00
	SOS TRUCK DELIVERY	98./HR.	200.00
		SUB TOTAL	$880.00
MARLIN Pacific:	TRUCKING	70./HR	600.00
	6 3/4" Junk mill ✓	205./EA.	1435.00
		SUB TOTAL	$2035.00
JET BAILER:	7" IMPRESSION BLOCK	PER JOB	196.00
	4" " "	" "	98.00
	4 3/8" " "	" "	110.00
	4 3/8" MAGNET	" "	100.00
		SUB TOTAL	$504.00
MIDWAY Fishing:	7" WASHOVER SHOE ✓	155./EA	1085.00
	7" W/O EXTENSION	170./85.	170.00
	7" DRIVE SUB F/W/O	260./135.	260.00
	6 1/8 Junk mill ✓	185/EA.	1157.00
	3 EA. X-OVER SUBS	25./12.	75.00
	7 3/8" Bit	300.00/JOB	300.00
		SUB TOTAL	$3037.00
Homco Int.:	7 3/8" SHOE	150./EA.	1126.00
	7 3/8" W/O PIPE	2.90 5.80 /ft.	174.00
	7 3/8" DRIVE SUB	220./110.	220.00
	6" DRILL COLLAR	58./29	58.00
	6 5/8" mill, Junk ✓	185./EA	1226.00
	3½ IF Lifter	25./12.	37.00
		SUB TOTAL	$2841.00
STEVE's oilfield TRUCKING :	4 DELIVERIES	98.00/HR.	800.00
MISC. UNBILLED:	Tools & EQUIP.		500.00
		SUB TOTAL	$1300.00

FINLEY . DRILLING . PULLING . . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49982

Company PETRO RESOURCES INC.
Lease NW LB. Well 8-1
Field LONG BEACH

Date 6-2-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____
Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS LAID OUT RIG MATS - MOVED IN MUD PUMP - M.I.R.U. MAST - S.D. T.M A.M.

Well Went Off Production ____ A.M. P.M. ____ 19____ Well Put On Production ____ A.M. P.M. ____ 19____

	START	STOP	HOURS
HOIST			
MAST #4	2:30 PM	4:30 PM	2
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. LUHEELER	2:30 PM	4:30 PM	2
HELPER A. MEDINA	/	/	/
HELPER JUAN MEDINA			
HELPER E. HARTSOCK - TRAINEE -			
HELPER			

FINLEY . DRILLING . PULLING . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49983

Company PETRO RESOURCES INC.
Lease NWLB Well 8-1
Field LONG BEACH, CAL

Date 6-3-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out Make Size Plunger Mandrel
Pump No. In Make Size Plunger Mandrel

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location
Make of tubing catcher, anchor Size Amount of tubing above catcher
Amount of tubing below catcher

BAILING RECORD

Maker of bailer Size Bailed from to Formation
Fluid Level Top. Perf. Bottom Perf. Zero Point

REMARKS REMOVE WELL HEAD - M/U 7" IMPRESSION BLOCK - JET BAILER - R.I.H. - STACKED OUT @ 551 - P.O.H. - DN. I.B. 1" WIDE MARK ON OUTSIDE OF FACE ON IB - R.I.H. W/OPEN END TBG - STOPPED @ 551' - UNABLE TO WORK PAST 551' P.O.H. - R.I.H. W/ 45° COLLAR - STOPPED @ 551' UNABLE TO GET PASSED 551' - P.O.H. - M/U JET BAILER 4" I.B. & R.I.H. - STACK OUT @ 551' - P.O.H - I.B. INDICATES PARTED OR BAD CSG. @ 551' - M/U 1 JT. 1¼" TBG. ON 2⅞ TBG & R.I.H. - UNABLE TO GET PASSED 551' W/1¼" TBG - P.O.H. - SECURE WELL LAY WATER LINE TO WELL 8-1

Rig & Crew 1503.00

Well Went Off Production A.M. P.M. 19 Well Put On Production A.M. P.M. 19

	START	STOP	HOURS
HOIST			
MAST #4	6:30AM	3:30PM	9HRS
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. WHEELER	6:30AM	3:30 PM	9HRS
HELPER A. MEDINA	"	"	"
HELPER M. MEDINA	"	"	"
HELPER E. HARTSOCK — TRN.	"	"	"
HELPER			

FINLEY . DRILLING . PULLING . . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49984

Company PETRO RESOURCES Inc.
Lease NWLB Well 8-1
Field LONG BEACH, CA.

Date 6-4-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____
Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS MOVE IN POWER SWIVEL & N/UP SAME & HANG BACK IN DERRECK. N/UP HOSES & CROSS-OVER SPOOL to PGSR: SHUT DN. until AM 6-5-92 to RECEIVE WASH OVER PIPE & MISC. C/O & FISHING tools.

$584.50 Rig & Crew
$40.00 Sub Pay

NO Accidents.

Well Went Off Production A.M. P.M. 19 Well Put On Production A.M. P.M. 19

	START	STOP	HOURS
HOIST #4	6:30 AM	10:00 AM	3.5
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. WHEELER	6:30 AM	10:00 AM	3.5
HELPER A. MEDINA	6:30 AM	10:00 AM	3.5
HELPER M. MEDINA	6:30 AM	10:00 AM	3.5
HELPER E. HARTSOCK	6:30 AM	10:00 AM	3.5
HELPER			

FINLEY OILWELL SERVICE INC.
. DRILLING
. PULLING
. . BAILING .

OX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49985

Company PETRO RESOURCES Inc.
Date 6-5-92
Lease NWLB Well 8-1
Work Order No.
Field LONG BEACH CA.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out Make Size Plunger Mandrel
Pump No. In Make Size Plunger Mandrel

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole
DAILY COST ON FISHING TOOLS			$2465.00	APPROX.	

Size of nipples in tubing string and location
Make of tubing catcher, anchor Size Amount of tubing above catcher
BAILING RECORD Amount of tubing below catcher
Maker of bailer Size Bailed from to Formation
Fluid Level Top. Perf. Bottom Perf. Zero Point

REMARKS SERVICE RIG & Components. RIH w/ OPEN-ENDED TBG. & CHANGE OVER to FRESH WATER; CIRC. FLUID. RECEIVE & UNLOAD WASH-OVER & MISC. Tools. PICK UP OTHER W/O TOOLS & MEAS. M/U & RIH w/ 7 3/8" OD T/C FLAT BTM. SHOE. WASH OVER f/ 551.43' KB to 554.43 +/- SHOE ID 6 1/4" INDICATED. APPROX. 1' OF FISH ENTERED FULL GAGE OF SHOE. 20-30,000# STRING WT to pull FREE BEFORE POH. STRING up-DN. Rt WTS. WERE 10,000#. DISCONTINUED W/O OPER. DUE to LACK OF COLLAR WT. SECURE WELL & SHUT DN. UNTIL AM 6-8-92 ORDERED 2 EA 30' w/ 52#/ft D.C. & CO BORE SHOE & ADD CUTTER SURFACE to INSIDE BORE f/ W/O.

CREW ONLY	6 HRS. @ 117.00	Total	702.00	$1810.00
RIG & CREW	4 HRS @ 167.00	Total	468.00	
SUB PAY		Total	40.00	
POWER SWIVEL & MUD PUMP	@ 300.00 EA.	Total	600.00	

NO ACCIDENTS

Well Went Off Production A.M. P.M. 19 Well Put On Production A.M. P.M. 19

	START	STOP	HOURS
HOIST 4	6 AM	4 PM	10
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. WHEELER	6 AM	4 PM	10
HELPER A. MEDINA	6 AM	4 PM	10
HELPER M. MEDINA	6 AM	4 PM	10
HELPER E. HARTSOCK	6 AM	4 PM	10
HELPER			

FINLEY . DRILLING . PULLING . BAILING .
OILWELL SERVICE INC.

...OX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49986

Company Pitco Energy Inc.
Lease NWLB Well 8-1
Field LONG BEACH

Date 6-8-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS See Equipt. N/up & RIH w/ 7" H-90 WASHOVER SHOE, EXTENSION, Top Sub, Spiral mill X 6 1/8" OD TAG w/ 7 3/8" OD w/ 6 1/4" ID w/ T/C on Btm, ID @ 550.35 +/- . DRESS OVER TO 553' TORQUE up P/up to 32,000# STRING WT 13,000# & Pull FREE. Attempt to WORK OVER & GET BACK to 555' UNABLE to GET BELOW 554'. UNABLE to GET TOOLS to Location until AM 6-9-92 SECURE WELL & SHUT DN UNTIL Tomorrow.

Rig & Crew	$918.50	$1558.50 Daily Cost
Sub Pay	40.00	
Power Swivel	300.00	
Mud Pump	300.00	

No Accidents

Well Went Off Production ____ A.M. P.M. ____ 19____ Well Put On Production ____ A.M. P.M. ____ 19____

		START	STOP	HOURS
HOIST	4	6:30 AM	12 PM	5 1/2
MAST				
SAND LINE				
PUMP				
SWIVEL				
PUSHER	R. Wheeler	6:30 AM	12 PM	5 1/2
HELPER	A. MEDINA	6:30 AM	12 PM	5 1/2
HELPER	J. MEDINA	6:30 AM	12 PM	5 1/2
HELPER	G. HARTSOCK	6:30 AM	12 PM	5 1/2
HELPER				

FINLEY OILWELL SERVICE INC.
. DRILLING
. PULLING
. . BAILING .

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49987

Company Petro Resources Inc.
Lease NWLB Well 8-1
Field Long Beach

Date 6-9-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS Su. Equip. Meas. m/u & RIH w/ 7 3/8" OD x 6 5/8" ID Diamond windowed friction shoe. Tag @ 552' +/- & work Dn. to 553' UNABLE to get below 553'. POH & BTM 2 Diamonds Bent out APPROX. 1' +/- OVER BSH w/ outside of shoe showing wear. Dn. W/O & Meas. m/u & RIH w/ 7 5/8 tri cone bit & DRILL 2' getting long STRINGS of WOOD & wood w/ metal scales POH 554' +/- LAY DN BIT & BIT SUB. SECURE WELL & SHUT DOWN to AM 6-10-92

Rig & Crew	$1252.50	
Sub Pay	40.00	$1892.50 total
Power Swivel	300.00	
Mud Pump	300.00	

NO ACC.

Well Went Off Production ____ A.M. P.M. ____ 19 ____ Well Put On Production ____ A.M. P.M. ____ 19 ____

	START	STOP	HOURS
HOIST #4	6 30 Am	2 Pm	7 1/2
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. Wheeler	6 30 Am	2 Pm	7 1/2
HELPER A. Medina	6 30 Am	2 Pm	7 1/
HELPER E. Hardsoch	6 30 Am	2 Pm	7 1
HELPER J. Medina	6 30 Am	10 Am	3 1
HELPER M. Medina	10 00 Am	2 Pm	4

FINLEY OILWELL SERVICE INC.
. DRILLING
. PULLING
. . BAILING .

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49988

Company Petro Resources Inc.
Lease N.W LB Well 8-1
Field Long Beach,

Date 6-10-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
Amount of tubing below catcher ____

BAILING RECORD

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS ✓ Equip. meet stinger truck @ 6:30am & P/U w/ Same 35' BHA RIH w/ Piloted Cone buster mill Tag @ 554' mill to 556' POH: mea. m/u & RIH w/ 7 3/8 Shoe & RIH & Reverse clean @ 556': Re Run Piloted Cone Buster & See 2 3/4" x 7/8" Wear Pattern on Pilot. Re Run Shoe & mill to get Pattern. POH & See circle wear Pattern. POH. RIH w/ 7" Impression Block: No show (Restricted). RIH w/ 6 3/4" Junk mill on 6" Drill collar Tag @ 556' & mill to 557' POH to ✓ wear Pattern. Indicates 6-6 1/4" OD metal tube w/ Smaller circular OD inside same. Ran 2 5/16" stinger & stop @ 557' Secure well Shut Dn. until Am 6-11-92

Rig & Crew	1837.00	@ 167.00/hr.	2477.00 Total
Power Swivel & Mud Pump	$600.00	@ 300.00/day ea.	
Sub Pay	40.00	@ per day rate	
	No Acc.		

Well Went Off Production ____ A.M. P.M. ____ 19__ Well Put On Production ____ A.M. P.M. ____ 19__

	START	STOP	HOURS
HOIST 4	6 Am	5 Pm	11
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER J. Wheeler	6 Am	5 Pm	11
HELPER A. Medina	6 Am	5 Pm	11
HELPER M. Medina	6 Am	5 Pm	11
HELPER E. Hardrock	6 Am	5 Pm	11
HELPER			

FINLEY . DRILLING . PULLING . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49989

Company PETRO RESOURCES INC.
Lease N.W.L.B. Well 8-1
Field LONG BEACH

Date 6-11-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
Amount of tubing below catcher ____

BAILING RECORD

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS ✓ EQUIP. AIR COMPRESSOR LEAKING. FILL & SEE NOTIFY MECH. SERVICES. MEAS. M/U & RIH W/ 5 3/8" OD IMPRESSION BLOCK. TAG @ 557'. SET BLOCK WT. ON SAME & SURE PICTURE. POH. & SHOW OF METAL CUTTINGS SETTLED ON OBSTRUCTION. RIH W/ 4 3/8" OD MAGNET. RECOVERED 3# COFFEE CAN FULL OF METAL FRAGMENTS LACED W/ STRINGS OF WOOD. DR. MAGNET. RIH W/ 5 3/8" RE-RUN IB: METAL OBJECT IN MIDDLE UNDETERMINED CEMENT CONFIGURATION. RIH W/ 4 5/8" MILL & 4 1/4 X 5 3/8" JUNK SUB ABOVE MILL. TAG @ 557' ROTATE W/O TORQUE TO 558' UNABLE TO ESTABLISH TORQUE POH & 4 9/16" OUTSIDE WEAR. 3 1/2" CIRCULATE W/ SOLID 2" CENTER WEAR PATTERN. SECURE WELL & SHUT ON.

RIG & CREW	1085.30	#1725.50 TOTAL
SWIVEL & PUMP	600.00	
SUB PAY	40.00	

NO ACC.

Well Went Off Production ____ A.M. P.M. ____ 19____ Well Put On Production ____ A.M. P.M. ____ 19____

		START	STOP	HOURS
HOIST	4	6:30 AM	1 PM	6 1/2
MAST				
SAND LINE				
PUMP				
SWIVEL				
PUSHER	L. WHEELER	6:30 AM	1 PM	6 1/2
HELPER	A. MEDINA	6:30 AM	1 PM	6 1/2
HELPER	M. MEDINA	6:30 AM	1 PM	6 1/2
HELPER	G. HARDSOCK	6:30 AM	1 PM	6 1/2
HELPER				

FORM OGD156 (5-80)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county	District
Long Beach	1
Former owner	**Date**
Sun Exploration & Production Co.	June 15, 1983

Name and location of well(s)

Sec. 13-4S-13W S.B.B.&M.

NWLBU 5-1 (037-09795)	NWLBU 8-1 (037-09792)	NWLBU 9-3 (037-09791)
NWLBU 5-2 (037-00397)	NWLBU 8-2 (037-09793)	NWLBU 9-4 (037-00392)
NWLBU 5-3 (037-09796)	NWLBU 8-3 (037-06496)	NWLBU 9-5 (037-00142)
NWLBU 5-4 (037-09797)	NWLBU 8-4 (037-06415)	NWLBU 9-6 (037-00393)
NWLBU 6-1 (037-09788)	NWLBU 8-7 (037-22512)	
NWLBU 6-2 (037-09789)	NWLBU 9-2 (037-13525)	

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange	New owner	Type of organization
May 1, 1983	Petro Resources, Inc.	Corp.
	Address: 4200 Easton Drive, Suite 16, Bakersfield, CA 94309	Telephone No. 805/323-4118

Reported by
Letter from Sun Exploration & Production Co. dated 5-16-83.

Confirmed by
Letter form Petro Resources, Inc., dated 5-18-83.

New operator new status (status abbreviation)	Request designation of agent
PA	Joe D. Rose, same address.
Old operator new status (status abbreviation)	**Remarks**
PA	

Deputy Supervisor	Signature
V. F. Gaede	Richard L. Manuel

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121	CP	7-7-83	Map and book	137	7/12/83
Form ODG140	NONE		Notice to be cancelled		
New well cards	CP	7-7-83	Bond status		
Well records	CP	7-7-83	EDP files Update		
Electric logs	CP	7-7-83	Conservation Committee		
Production reports			L. A. Assessors		

Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.

1-1-82, Form 156 dated 1-21-82. See ownership file.

FORM 157

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

Oct. 4, 1979

Mr. L. B. Carroll, Jr., Agent
Sun Oil Co.
23928 Lyons Ave.
Newhall, CA 91321

DEAR SIR:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R 13W, S.B B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

> "* * * The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

Old Designation		API	New Designation
"Oil Operators"	1	037-09792	NWLBU 8-1
" "	2	037-09793	NWLBU 8-2
" "	3	037-06496	NWLBU 8-3
" "	4	037-06415	NWLBU 8-4
"Pool"	1	037-09795	NWLBU 5-1
"	2	037-00397	NWLBU 5-2
"	3	037-09796	NWLBU 5-3
"	4	037-09797	NWLBU 5-4
"Amebco"	1	037-09788	NWLBU 6-1
"	2	037-09789	NWLBU 6-2
"Flood Control"	2	037-13525	NWLBU 9-2
" "	3	037-09791	NWLBU 9-3
" "	4	037-00392	NWLBU 9-4
" "	5	037-00142	NWLBU 9-5
" "	6	037-00393	NWLBU 9-6

M. G. Mefferd
JOHN F. MATTHEWS, JR.
State Oil and Gas Supervisor

RWS:sc

cc: Update Center
EDP
Conservation Committee

By Richard W. Strehl for
Acting Deputy Supervisor
R. A. Ybarra

CORRECTIONS (TYPE AS FOLLOWS) | BY WHOM
FORM 114 | |
" 115 | |
" 121 | sc 11-2-79
" 126 | |
CASING | |
PROPORTION PLAN | cc 11-2-79
WELL RECORD | SC 11-2-79
CHECKED | SC 11-2-79
FIELD MAPS 137 | pmc 11/2/79
MAP CODE | pmc 11/2/79

57996-705 11-71 3M ① OSP

Call
Dave Williams
805-259-2440

March 19, 1979

Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well (s):

Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach field, Los Angeles County.

OLD WELL #	OLD DESIGNATION OLD NAME OIL OPERATORS	NEW WELL #	NEW DESIGNATION NEW NAME ~~NLBU~~
1	03709792	8-1	NORTHWEST LONG BEACH UNIT
2	03709793	8-2	" " " " "
3	03706496	8-3	" " " " "
4	03706415	8-4	" " " " "

RS | Dave Williams 9/25/79
OK to use "NWLBU"

Dun Oil Co.
(Name of Operator)

23928 Lyons Ave
(Address)

Newhall, Calif 91321

By [signature]

X 3-9-79 TRS

Form 42 (10/71)

RECEIVED
MAR 29 10 51 AM '79
DIV. OF OIL AND GAS
LONG BEACH, CA.

March 19, 1979

Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well (s):

Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach field,

Los Angeles County.

OLD WELL #	OLD DESIGNATION	OLD NAME POOL	NEW WELL #	NEW DESIGNATION	NEW NAME
1	03709795		5-1	NORTHWEST	LONG BEACH UNIT
2	03700397		5-2	"	" " "
3	03709796		5-3	"	" " "
4	03709797		5-4	"	" " "
1	03709788	AMERCO	6-1	"	" " "
2	03709789		6-2	"	" " "
2	03713525	FLOOD CONTROL	9-2	"	" " "
3	03709791		9-3	"	" " "
4	03700392		9-4	"	" " "
5	03700142		9-5	"	" " "
6	03700393		9-6	"	" " "

Sun Oil Company
(Name of Operator)

23928 Lyons Avenue
(Address)

Newhall, Calif 91321

By Jack Andrews

Form 42 (10/71)

RECEIVED
MAR 29 10 51 AM '79
DIV. OF OIL AND GAS
LONG BEACH, CA.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county: Long Beach	District: 1
Former owner: General Exploration Co.	Date: February 15, 1979

Name and location of well(s)

Sec. 11-4S-13W

"Dominguez" 2-10 (037-11859)

Sec. 13-4S-13W

"Amebco" 1 (037-09788)
"Amebco" 2 (037-09789)
"Flood Control" 2 (037-13525)
"Flood Control" 3 (037-09791)
"Flood Control" 4 (037-00392)
"Flood Control" 5 (037-00142)

Sec. 13-4S-13W

"Flood Control" 6 (037-00393)
"Oil Operators" 1 (037-09792)
"Oil Operators" 2 (037-09793)
"Oil Operators" 3 (037-06496)
"Oil Operators" 4 (037-06415)
"Pool" 1 (037-09795)
"Pool" 2 (037-00397)
"Pool" 3 (037-09796)
"Pool" 4 (037-09797)

Description of the land upon which the well(s) is (are) located

Sec. 14-4S-13W

"Dominguez" 1 (037-11858)

Date of transfer, sale, assignment, conveyance, or exchange: Dec. 1, 1978	New owner: Sun Oil Company Address: 23928 Lyons Avenue, Newhall, CA 91321	Type of organization: Corporation Telephone No.

Reported by: Former operator

Confirmed by: New operator

New operator new status (status abbreviation): PA	Request designation of agent:
Old operator new status (status abbreviation): AB	Remarks:

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor: for M. B. Albright	Signature: Eleanor Rickel

PA – Producing Active
NPA – No Potential Active
PI – Potential Inactive
NPI – No Potential Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121			Map and book	PR	2-16-79
Form OGD148			Notice to delinquent		
New well cards			Bond status		
Well records			EDP [illegible]		
Electric logs			ara		
Production reports			cc: EDP Update Conservation Committee Update Center		

OGD156 (12-77-CSR1-2M)

(213) 590-5311

May 21, 1976

Mr. Robert L. Graves
GENERAL EXPLORATION CO.
4021 N. Pacific Place
Long Beach, California 90806

Dear Sir:

On May 20, 1976, Mr. G. W. Stark, our representative met with Bob Grey, your representative, to witness that one support piling was cut 20 feet below ground level. The Division approves of this method of pile removal if the holes are filled with tamped earth.

Sincerely,

ADS

A. D. Stockton
Associate Oil and Gas Engineer

ADS:dr

156

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach — District: 1

Former Owner: Union Oil Co. of California — Date: January 17, 1961

Description of Property: Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961
New Owner: General Exploration Co. of California
Address: 750 Subway Terminal Building, 417 South Hill Street, Los Angeles 13, Calif.

Telephone No.

Type of Organization: Corporation
Reported by: Union Oil Co. of California (Letter of January 6, 1961)
Confirmed by: General Exploration Co. of California (Letter of January 11, 1961)
New Operator New Status: PA, Old Operator New Status: PA
Request designation of agent: No

Remarks:

eb
CC- Mr. E. H. Musser
Prod. Dept.
Conservation Committee

Wm. C. Bailey
Deputy Supervisor

	INITIALS	DATE
Form 121	EB	1-17-61
New Well Cards		
Well Records	EB	1-17-61
Electric Logs		
Production Reports	C Chrd Dept	
Map and Book 130	S.C.	1-18-61
Form 148		
Notice to be cancelled	No JRT	1/18/61

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
NOTE—If Transfer Does Not Change Overall Status Enter "No Change"

(S.W. & N.W. of inter. Concord Pl. & P.E. Ry.)

96785 4-59 4500 SPO

E. H. MUSSER
State Oil and Gas Supervisor

W. C. BAILEY
Deputy

EDMUND G. BROWN
Governor

DEWITT NELSON
Director of Natural Resources

DIVISION OF OIL AND GAS
RECEIVED
JAN 13 1961
INGLEWOOD, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
830 NORTH LA BREA AVENUE
INGLEWOOD 3, CALIFORNIA

January 11, 1961

General Exploration Co. of California
417 South Hill Street
Los Angeles 13, California

Gentlemen

We have been informed that on January 1, 1961, you acquired Union Oil Company of California wells No. "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field.

Please furnish us with the information requested below which may be submitted on the duplicate copy of this letter attached. Please complete the letter, sign and return it to this office as soon as possible.

Yours truly

WM. C. BAILEY
Deputy Supervisor

By J. R. Thomas
J. R. Thomas
Associate Oil & Gas Engineer

eb

1. Effective date you acquired the wells: January 1, 1961.

2. Name and address of the person or company from whom you acquired the wells:
Union Oil Company of California
461 So. Boylston St., Los Angeles 17, California.

3. What are your plans for the wells: Continue producing wells.

4. Brief legal description of the property on which the wells are located:
Portions of Secs. 13 and 14, T. 4 S., R. 13 W., S.B.B. & M. in Long Beach field shown on D.O.G. Map No. 20 as Union Oil Co. of Calif. "Oil Operators" lease.

1-11-61
(Date)

GENERAL EXPLORATION COMPANY
OF CALIFORNIA

By [illegible]
(Signature)

UNION OIL COMPANY OF CALIFORNIA
UNION OIL CENTER
LOS ANGELES 17, CALIFORNIA

DIVISION OF OIL AND GAS
RECEIVED
JAN 10 1961
INGLEWOOD, CALIFORNIA

HAROLD H. STREAM
MANAGER OF LANDS

January 6, 1961

Wm. C. Bailey
Deputy Supervisor
Division of Oil and Gas
830 North La Brea Avenue
Inglewood 3, California

Re: LONG BEACH AREA
Los Angeles County, California
Oil Operators, Inc. Lease

Dear Mr. Bailey:

Pursuant to Article 4, Chapter 1, Division 3 of the Public Resources Code, notice is hereby given that Union Oil Company of California has sold and transferred to General Exploration Co. of California, 750 Subway Terminal Building, Los Angeles 13, California, effective as of 7:00 o'clock a.m., January 1, 1961, the following oil and gas wells:

Section 13, Township 4 South, Range 13 West

Oil Operator #1 (Standing)
Oil Operator #2
Oil Operator #3
Oil Operator #4

Very truly yours,

G. B. Hall
Supervisor of Lease Processing

By W. A. Watson
W. A. Watson

WAW/jb
cc: General Exploration Co. of California
750 Subway Terminal Building
Los Angeles 13, California

Attention: Mr. C. G. Willis, President

STENOGRAPHER

Forms Filed 102

Date Rec'd. 10-3-44

Electric Log /

Location /

Elevation /

ENGINEER

Form Needed none

Map Correction ✓

Form 150b (Date of Release)

At Request of Operator

Because Abandoned

Because Request by Oper.

Remarks O.K. rec for 102 ~~subsequent~~ work report

DCH.

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

SMB 5

DIVISION OF OIL & GAS
RECEIVED
OCT 3 1944
LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators #1, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Sept. 8, 1939 _____, was filed.

SIGNED Henry E Winter

Date September 27, 1944

Title Division Engineer
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Casing Record at Beginning of Work:
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf.
C.P. 4475' - Top 161' is Securaloy

Casing Record at End of Work:
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf.
C.P. 4475' - Top 161' is Securaloy

Date 1944	Depth	Effective Depth	Remarks
8-26	4532	Liner 4529	Rigged up to plug and perforate higher.
9-1	4532	Plug 4443	Cleaned out sand from 4497 to 4529'. Dumped 15 sacks of Blue Diamond construction cement in stages to fill from 4529 to 4443'. Location of plug at 4443' witnessed by Division of Oil and Gas.
9-4	4532	Plug 4443	Bailed out 143 barrels of oil and 8 barrels of water to lower fluid level from 525' to 1105'. Note: Apparently the Securaloy or some other part of the liner was letting fluid through, as all of the perforations were plugged.
9-8	4532	Plug 4124	Set 6-5/8" Cavins drillable bridge plug at 4200'. Dumped 8-1/2 sacks of Blue Diamond construction cement in stages to fill from 4200 to 4124'. Bailed out 194 barrels of water to lower fluid level from 830 to 1725'. Slight show of oil. Note: Securaloy liner must be defective since plug in 6-5/8" is only 21' from shoe of 8-5/8" and 6-5/8" has not been perforated.
9-10	4532	Plug 4124	Ran rods and 3-1/2" upset tubing to 2419' overall and put well to pumping.

Production Data

	Hrs.	Gross	Net	Gravity	Cut	Remarks
9-12	24	713	0		100.0	
9-14	24	698	0		100.0	
9-16	18	428	0		100.0	Changed pump.
9-18	24	640	0		100.0	
9-20	24	610	0		100.0	

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-43185

Los Angeles 14, Calif. September 8, 1944.

Mr. W. S. Eggleston,
Los Angeles 14, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "Oil Operators" 1 Sec. 13, T. 4 S, R. 13 W, S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by A. Pfeil, Inspector, representative of the supervisor, on Sept. 1, 1944. There was also present William Falconer, Driller, and Leo Murry, Helper.

Casing Record 13-3/8" cem. 757'; 8-5/8" cem. 4105', W.S.O. 6-5/8" 4024'-4529', c.p. 4475', perf. 4479'-4529'; T.D. 4532', plugged with cement 4529'-4443'.

Junk None

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 4529' to 4443' in the process of plugging.

The inspector arrived at the well at 2:15 p.m. and Mr. Falconer reported:

1. The hole was cleaned out to 4529'.
2. On August 31, 1944, 10 sacks of cement was dumped at 4529'; and on September 1, 1944, an additional 5 sacks was dumped.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 4443' and brought up a sample of set cement.
The test was completed at 3:15 p. m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 4443' ARE APPROVED.

cc - Mr. H. E. Winter
- Long Beach

AP:my

L/R.

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musser Deputy

28381 10-43 15M
STATE PRINTING OFFICE

CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-39843

Los Angeles 14, Calif. July 19, 1944

Mr. W. S. Eggleston
Los Angeles 14, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

121

Dear Sir:

Your proposal to plug & alter casing Well No. "Oil Operators" 1, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated July 15, 1944, received July 18, 1944, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Complete casing record.
Total depth 4532'
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf. C.P. 4475' (Top 161 ft. of liner Securaloy)

Well is non-commercial.

2. June, 1944 Prod. (Date) 82 (Net Oil) 22.1 (Gravity) 99.3 (29 days) (Cut)"

PROPOSAL:

"The proposed work is as follows:

1. Clean out to 4529' and plug with cement to 4455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4250-4270'.
4. If casing test is wet, cement 4-3/4" casing 4020-4300'.
5. Perforate 4250-4270 and test.
6. If wet, plug to 4230' and test plug by Division of Oil and Gas.
7. Perforate 4105 to 4120 and test."

DECISION:

THE PROPOSAL IS APPROVED.

NRMA:OH

cc- P. A. W.
H. E. Winter
Long Beach

S/ma

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Muesser Deputy

Blanket bond No. 99071

FORM 107. 29275 11-43 10M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
JUL 18 1944
LOS ANGELES, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Santa Fe Springs, Calif. July 15, 19 44

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling~~, plugging or altering casing at well No. Oil Operators 1
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

Total depth 4532'
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf. C.P. 4475' (Top 161 ft. of liner Securaloy)

Well is non-commercial.

2. ~~Last produced~~ June, 1944 (Date) Prod. 82 (Net Oil) 22.1 (Gravity) 99.3 (Cut) (29 days)

The proposed work is as follows:

1. Clean out to 4529' and plug with cement to 4455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4250-4270'.
4. If casing test is wet, cement 4-3/4" casing 4020-4300'.
5. Perforate 4250-4270 and test.
6. If wet, plug to 4230' and test plug by Division of Oil and Gas.
7. Perforate 4105 to 4120 and test.

plug + alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket bond #99071		

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Henry C. Winter
Division Engineer.

cc: P. A. W.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 102.

DIVISION OF OIL AND GAS
RECEIVED
SEP 14 1939
LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Co. of Calif. FIELD Long Beach

Well No. Oil Operators #1, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated 11-12-1937 _____, was filed.

SIGNED Henry E Winter

Date 9-8-39 Title Division Engineer
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

CSG= RECORD AT BEGINNING OF WORK

13-3/8 C 757
8-5/8 C 4105 OK
68-6-5/8 L 4155 inc 47 perf.

CSG. RECORD AT PRESENT

13-3/8 C 757
8-5/8 C 4105 OK
505-6-5/8 L 4529 inc 50 perf.
C P 4475

DATE	DEPTH	EFF=DEPTH	
7-31-39	4155		Rig up to pull liner and deepen. Cut and pulled all of liner. Deepening.
8-10-39	4254		
8-17-39	4532		Deepened to 4532. 505.15 - 6-5/8 landed 4529 (hung on Burns line hanger) inc 49.82 of 120 mesh (12-1-1/2-6) Kobe and cemented thru Baker whirler basket at 4475 with 125 sacks Victor Oil Well cement. Top 160.91 of liner is 6-5/8 Securaloy.
8-21-39	4532		C.O. to 4150. Top of cement 3794. Bailed fluid to 2810. Splice O K by Division of Oil and Gas.
8-22-39	4532		C.O. to 4528. Bailing.
8-25-39	4532		Ran 4433 - 3" tubing and rods. Rigged up pumping unit.
8-26-39			251 gross 184 Net 22.8 26.5% P 13 hr
8-27-39			254 " 248 " 22.0 2.5% P 24 hr
9-1-39			241 " 226 " 22.0 6.1% P 24 hr
9-4-39			235 " 201 " 22.0 14.3% P 24 hr

FORM 101.

DIVISION OF OIL AND GAS
RECEIVED
SEP 14 1939
LOS ANGELES, CALIFORNIA

7

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Union Oil Company of Calif. Field Long Beach

Well No. Oil Operators #1 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
4155	4532	377	Drilled & Cored	(See core record)	
	Quit on shell				

1086 1-38 10M

SMB

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

LONG BEACH FIELD UNION OIL COMPANY OIL OPERATORS LEASE #1 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPT. DIP	ANGLE OF HOLE
8-11-39	1	7-5/8" Elliott	4375	4385	9.8			9.8		Firm to hard medium to coarse gray sand - Dip 16°		
"	2	"	4385	4395	10.1			8.3		Firm to hard medium to coarse gray sand		
						0.1				Irregular inclusion of brown shale		
								1.7		Firm, fine to medium broken gray sand		
						0.1		10.0				
"	3	"	4395	4405	10.1			0.5		Firm, fine dark gray sand		
								9.6		Firm, coarse to medium gray sand		
								10.1				
"	4	"	4405	4415	11.9			3.0		Firm, soft medium gray sand		
								0.8		Firm, fine dark gray slightly argillaceous gray sand		
								5.9		Firm soft medium gray sand		
								2.2		Firm to firm soft, fine dark gray sand		
								11.9				
	5	"	4415	4425	10.6			10.6		Firm soft medium gray sand		
"	6	"	4425	4435	8.0			8.0		Firm soft medium gray sand		
8-12-39	7	7-5/8" Elliott	4435	4445	5.3	0.2				Hard brown shale		
								3.7		Firm soft fine to medium gray sand		
						0.1				Hard brown shale		
								0.1		Medium gray sand		
						0.2				Hard brown shale with streaks of fine gray sand		
								1.0		Soft medium gray sand with inclusion of brown shale 0.3 from top		
						0.5		4.8				
"	8	"	4445	4455	6.0	3.0				Hard fractured brown shale with high angle fracturing. Crushed zones at bottom and 1.4 from top		
						2.3				Hard massive brown shale		
						0.7				Hard broken brown shale		
						6.0						
"	9	"	4455	4465	11.3	11.3				Hard brown shale. Parts at angle of 30-35°		
"	10	"	4465	4475	4.2	4.2				Hard brown shale		

Henry E Winter

708A 1-38 10M

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

LONG BEACH FIELD UNION OIL COMPANY OIL OPERATORS LEASE #1 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPT. DIP	ANGLE OF HOLE
8-12-39	11	7-5/8" Elliott	4475	4485	9.6	4.7	0.1			Hard brown shale, slightly silty in spots.0.3 at top broken. Streaks of fine brown oil sand in bottom 1.6		
							0.1			Firm fine brown oil sand		
						0.5				Hard slightly silty brown shale with partings of fine brown oil sand		
							2.3			Firm to firm soft, fine brown oil sand, grading to medium at bottom. Good odor and dark amber cut		
						0.6				Hard silty brown shale with streaks and partings of fine brown oil sand		
							0.8			Firm soft to soft, medium brown oil sand. Good odor and dark amber cut		
						0.2				Hard brown shale		
							0.3			Firm, fine slightly argillaceous brown oil sand		
						6.0	3.6					
"	12	"	4485	4490	4.7		0.1			Firm fine dark brown oil sand		
						0.1				Hard brown shale		
							0.6			Firm fine brown oil sand. Good odor and dark amber cut		
						0.1				Hard brown shale		
							0.6			Firm soft medium brown oil sand		
						0.2				Hard slightly silty brown shale		
							2.3			Soft fine brown oil sand, mixed with mud		
						0.1				Hard brown shale		
							0.1			Soft fine brown oil sand		
						0.5				Hard brown shale, apparent dip 30°		
						1.0	3.7					
"	13	"	4490	4500	2.7	1.5				Hard broken brown shale, apparent dip 30°		
						1.2				Hard broken brown shale, badly broken in coring and mixed with mud. 0.1 crushed zone at top		
						2.7						
"	14	"	4500	4510	0.0					No recovery		
"	15	"	4510	4515	0.0					No recovery		
8-13-39	16	"	4515	4520	0.0					No recovery		

Henry E Winter

708A 1-38 10M

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

LONG BEACH FIELD UNION OIL COMPANY OIL OPERATORS LEASE #1 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPT. DIP	ANGLE OF HOLE
8-13-39	17	7-5/8" Elliott	4520	4525	5.8		3.6			Firm medium brown oil sand, grading to coarse pebbly brown oil sand		
							2.2			Firm soft fine brown oil sand, good odor and dark amber cut		
							5.8					
"	18	"	4525	4530	5.7		3.4			Firm soft medium to coarse, slightly pebbly in spots, brown oil sand Good odor and dark amber cut		
							2.3			Firm soft fine grading to medium brown oil sand, good odor and dark amber cut.		
							5.7					
"	19	"	4530	4532	2.9		2.9			Firm soft to soft coarse, slightly pebbly brown oil sand. Fair odor and dark amber cut. Sand does not look too good		
							2.9					
					T.D.	4532	8-13-39					

Henry E Winter

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 5735

DIVISION OF OIL AND GAS

LOS ANGELES

Union Oil Co of Caly Calif. 9/5 1939

Name of Operator

LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4S R. 13W - Long Bel, B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work

Elec log - Oil Operators 1 - 8/13/30

R. D. BUSH, State Oil and Gas Supervisor

AH By E Huguenin Deputy

DUPLICATE

FORM 127. 66837 1-39 3500 TRIP

CALIFORNIA STATE PRINTING OFFICE

FORM 109-D. 60529 7-38 15M.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-36446

Los Angeles, Calif. August 29, 1939

Mr. W. S. Eggleston,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 1 Sec. 13, T. 4S., R. 13W., S. B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, Engineer, representative of the supervisor, on August 21, 1939. There was also present H. E. Winter, Engineer, and H. C. Richardson, Foreman.

Casing Record 13-3/8" cem. 757'; 8-5/8" cem. 4105', N.S.O.; 6-5/8" liner 4024'-4529', c. p. 4475', perf. 4479'-4529'. T. D. 4532', plugged with cement 4475'-?

Junk None.

The operations were performed for the purpose of demonstrating that fluid does not have access to the well between the 6-5/8" and 8-5/8" casings,

and the data and conclusions are as follows:

ENGINEER PEIRCE ARRIVED AT THE WELL AT 11:45 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. The 6-5/8" liner landed at 4155' was all recovered.
2. An 8½" rotary hole was drilled from 4105' to 4532'.
3. Mud fluid was circulated 4 hr. before cementing the casing.
4. Electrical core readings showed the following: 4440' - 4480' - shale (J-K).
5. On August 17, 1939, 505' of 6-5/8" casing (top 161' Securaloy, bottom 344' - 26 lb.), including 50' of perforated, was landed at 4529' and was cemented through perforations at 4475' with 125 sacks of Victor cement.
6. Cement was drilled out of the 8-5/8" and 6-5/8" casings from 3794' to 4035', equivalent to 68 sacks, and the casing was cleaned out to 4150'.
7. The fluid was bailed to 2800' at 4:45 p. m., on August 21, 1939.

ENGINEER PEIRCE NOTED THE FOLLOWING:

1. The fluid rose 10' in 7½ hr., equivalent to 1 bbl. per 24 hr.
2. The hole was open to 4200'.

The test was completed at 12:30 a. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT fluid does not have access to the well between the 6-5/8" and 8-5/8" casings.

cc- H. E. Winter
Long Beach
GP:G
CSB

R. D. BUSH
State Oil and Gas Supervisor

By E. Hugenin Deputy

FORM 111
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-34051

Los Angeles, Calif. July 26, 1939.

Mr. W. S. Eggleston,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

121

Dear Sir:

Your proposal to deepen Well No. "OIL OPERATORS" 1, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated July 24, 1939, received July 26, 1939, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:
4155' deep
13-3/8" C 757'
8-5/8" C 4105' O.K.
68' 6-5/8" L 4155', inc. 47' perf.
June, 1939 production 1034 oil, 16,287 water - 30 days."

PROPOSAL:

"The proposed work is as follows:
1. Pull 6-5/8" liner.
2. Deepen to approximately 4535'.
3. Land 6-5/8" liner, including 110' perforated, at 4535' and cement through perforations at approximately 4425'."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test after drilling out the cement to within 50' of the cementing point to demonstrate that no fluid has access to the well between the 6-5/8" and 8-5/8" casings.

cc- H. E. Winter
Long Beach
WJC:OH

CLB

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy

FORM 107. 42649 3-37 10M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JUL 26 1939
LOS ANGELES, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Santa Fe Springs Calif. July 24 19 39

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of deepening, ~~redrilling, plugging, altering casing~~ at well No. Oil Operators #1
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

4155' deep

13-3/8" C 757'
8-5/8" C 4105' O.K.
68' 6-5/8" L 4155', inc. 47' perf.

June, 1939 production 1034 oil, 16,287 water - 30 days

The proposed work is as follows:

1. Pull 6-5/8" liner.

2. Deepen to approximately 4535'.

3. Land 6-5/8" liner, including 110' perforated, at 4535' and cement through perforations at approximately 4425'.

Deepen

Reference to file of data

Maps	Model	Cross Section	Cards	Forms 114	Forms 121
				✓	✓

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Henry E Wurter
Division Engineer

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 2558

DIVISION OF OIL AND GAS

LOS ANGELES

Calif. 11/30 19 37

Union Oil Co of Calif
Name of Operator

LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 *T.* 4 S *R.* 13 W - Long Bch *B. & M., as herewith enumerated by well numbers.*

Logs

History

Core record Elec log - "Oil Operators, Inc" 1 - 11/1/37

Subsequent work

R. D. BUSH, *State Oil and Gas Supervisor*

DUPLICATE

AH By E Huguenin *Deputy*

FORM 127. 46818 7-37 3M

CALIFORNIA STATE PRINTING OFFICE

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS NO. 1, Sec. 13, T. 4S, R. 13W, SB B. & M.

Signed Henry E Winter

Date NOVEMBER 12, 1937 Title DISTRICT ENGINEER.
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date		
1937	CASING RECORD AT START OF WORK.	CASING RECORD AT END OF WORK.
	NEW WELL	13-3/8" C 757 8-5/8" C 4105 OK 68' 6-5/8" L 4155 incl 47' perf. Total depth 4155'.

DEPTH	EFF. DEPTH	REMARKS
9-30	187	Spudded in and drilled with 17" rotary bit.
10-3-	757	Drilled with 17" bits to 757'. Cemented new 13-3/8" 45.97# National seamless slipjoint casing at 757' with 350 sacks Velo cement. Cementing operation approved by Pierce of D.O.G.
10-4-	817	Found top of cement at 737'. Cleaned out cement and plugs. Drilled ahead with 12-1/4" bit.
10-13	4110	Drilled and cored to 4043'. Ran Schlumberger survey. Cored ahead to 4110'.
10-14	"	Enlarged hole to 4106' with 12-1/4" reamer. Cemented 8-5/8" - 36# Grade "C" (510' of Grade D on bottom) 8 thread rounded seamless casing at 4105', with 400 sacks Victor Oil Well cement.
10-20	"	Found top of cement at 4081'. Cleaned out cement and plugs to 4110'. WSO test on 8-5/8" casing at 4105', witnessed and approved by Murray-Aaron of D.O.G. Directional survey of hole made by Alexander Anderson.
10-21	4155	Cored ahead to 4155' with 7-5/8 barrel.
10-22	"	Landed 68' of 6-5/8" 26# Grade "C" 10 thread casing at 4155' including 47' of 120 Mesh (16-2-6-) Kobe perforated on bottom.
10-23	"	Landed 3" Upset tubing at 4077'. Installed Xmas tree. Swabbed fluid to 2000'. Well started flowing by heads. CP 225#.

3

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS NO. 1, Sec. 13, T. 4S, R. 13W, SB B. & M.

Signed Henry E Winter

Date NOVEMBER 12, 1937 Title DISTRICT ENGINEER.
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

PRODUCTION TEST DATA

	Gross	Net	Gravity	Cut	Hrs.	CP.
10-24	370	363	23.9	1.8	P 24	325
10-25	97	96	"	1.4	P 4	
10-26	177	174	"	1.5	P 7	
10-27	322	317	""	1.6	P 24	
10-28	370	365	"	1.4	"	
10-29	333	328	"	1.5	"	
10-30	195	193	"	1.0	P 13	
10-31	457	452	"	"	P 24	
11-3	350	345	""	1.3	"	
11-5	433	427	23.4	1.4	"	
11-9	528	520	"	1.5	"	
11-11	456	451	"	1.2	"	

CALIFORNIA STATE PRINTING OFFICE

SUBMIT LOG IN DUPLICATE

FILL THIS BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

LOG OF OIL OR GAS WELL

Operator UNION OIL COMPANY OF CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS #1 Sec. 13, T. 4S, R. 13W, SB B. & M.

Location 555 S'ly along the prolongation of the center line of the W'ly portion of San Antonia Drive, from the center line of Del Mar Ave thence 110' N.W'ly at right angles. Elevation 56.84

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date NOVEMBER 12, 1937 Signed Henry E Winter

(Engineer or Geologist) (Superintendent) Title DISTRICT ENGINEER. (President, Secretary or Agent)

Commenced drilling September 30, 1937 Completed drilling October 23, 1937 Drilling tools ~~Cable~~ Rotary

Total depth 4155 Plugged depth

Junk

GEOLOGICAL MARKERS	DEPTH
Top of Wilbur shale	3647
Top Alamitos shale	3874
Top brown sand.	4106'

Commenced producing OCTOBER 24, 1937 (date) ~~Flowing/gas lift~~/pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	363	23.9	1.8	121		325#
Production after ~~30~~ 20 days	451	23.4	1.2	222		

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
13-3/8	757	Surface	45.97	New	Smls	C	17"	350	
8-5/8	4105	"	36#	"	"	C & D	12¼	400	
6-5/8	4155	4087	26#	"	"	C	7-5/8	-	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
6-5/8	4108 ft.	4155 ft.	120 Mesh	16	6"	Kobe.
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths Schlumberger from 757 - 4043. (Attach Copy of Log)

FORM 101.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator UNION OIL COMPANY OF CALIFORNIA Field LONG BEACH

Well No. OIL OPRATORS #1 Sec. 13, T. 4 S, R. 13W, SB B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
0	40	40			Surface clay
40	254	214			Clay and sand.
254	592	338			Sand and boulders
592	730	138			Sand
730	984	254			Shale and streaks of sand.
984	990	6			Hard sand.
990	1349	359			Shale and streaks of hard sand.
1349	3083	1734			Shale and streaks of sand.
3083	3087	4			Hard sand.
3087	3106	19			Shale and streaks of sand.
3106	3108	2			Shell
3108	3251	143			Shale and streaks of sand.
3251	3253	2			Hard sand.
3253	3398	145			Shale and streaks of sand.
3398	3399	1			Hard shell
3399	3442	43			Shale and streaks of sand.
3442	3445	3			Shell
3445	3459	14			Sand.
3459	3478	19			Shale and sand.
3478	3480	2			Shell
3480	3487	7			Hard sand.
3487	3498	11			Sand and shale
3498	3500	2			Hard sand
3500	3614	114			Shale and streaks of sand.
3614	3636	22			Hard sand.
3636	3800	164			Shale and streaks of sand.
3800	3911	111			Hard sand.
3911	3914	3			Shell
3914	3928	14			Medium hard sand and shale
3928	3930	2			Shell
3930	4010	80			Shale
4010	4040	30			Sand (See core record)
4040	4044	4			Shell
4044	4051	7			Sand.
4051	4053	2			Shell
4053	4155	102			Shale and sand.

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

8

LONG BEACH UNION OIL OIL OPERATORS 1

56.84

Henry E Winter

						Sh.	O.s.	Gy Sd	Shell	
7										
			0	4010						Drilled.
10-13	1	7-5/8 Soll	4010	4028	17.2			4.6		Firm soft medium to coarse gray sand. No odor
						0.1				Hard brown shale
								3.2		Firm fine compact gray sand, grading to medium in lower part
						0.2		0.1		Hard brown shale, streaks of fine gray sand
						0.2				Hard brown shale
						0.2		0.1		Hard brown shale, streaks of fine gray sand. Good dips of 31°-33°
								8.5		Firm soft medium to coarse gray sand
						0.7		16.5		Streak of brown shale at top
10-13	2	7-5/8 Soll	4028	4040	10.8			0.8		Firm soft medium gray sand
						0.1				Broken brown shale, inclusions of medium gray sand
								2.3		Firm soft medium gray sand, grading to very fine on bottom
						0.3				Hard brown shale, streaks of fine gray sand. Poor dip of 20°
								0.4		Very fine firm gray sand
						0.1				Hard brown shale
								0.3		Firm soft fine gray sand
						0.1				Hard brown shale
								6.4		Firm soft medium gray sand
						0.6		10.2		
10-13	3	7-5/8 Soll	4040	4041	0.7				0.7	Hard coarse calcareous sandstone
									0.7	shell. Vertical fracture.
			4041	4058						Drilled.
10-14	4	7-5/8 Soll	4058	4076	15.0			5.0		Firm soft medium gray sand. No odor
						0.8		0.1		Hard brown silty shale, streaks and partings of fine gray sand. Dip of 28°
								2.4		Firm soft medium gray sand
						0.1				Hard brown shale
								3.6		Firm soft medium gray sand
						0.1				Hard brown shale. Dip of 29°
								1.0		Firm soft medium to coarse gray sand
						1.9				Hard dark brown silty shale. Partings
						2.9		12.1		have dip of 23° to 28°. Streak of gray sand

DIVISION OF OIL AND GAS 9
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

LONG BEACH UNION OIL OIL OPERATORS 1

Henry C Winter

1937						Shale	O.S.	Gy Sd	Shell	
10-14	5	7-5/8 Soll	4076	4092	17.1	1.1				Hard dark brown shale
								0.2		Firm soft medium gray sand
						0.2				Hard sandy brown shale
								0.7		Firm soft fine to medium gray sand
						2.0				Hard dark brown shale. Streak of gray sand 0.7 from top
								3.6		Firm soft medium to coarse gray sand
						0.4				Hard sandy dark brown shale
								1.9		Firm soft medium gray sand
						2.9				Hard brownish black shale
								0.1		Firm soft medium argillaceous dark brown gray sand. Slightly oil stained with fair odor
						4.0				Hard brownish black slightly sandy shale. Laminated with partings of gray sand 0.6 from bottom. Streak of brown oil sand on bottom. Dip of 22°
						10.6		6.5		
10-14	6	7-5/8 SOLL	4092	4110	18.5		0.7			Firm, soft fine to medium dark brown oil sand. Strong odor and dark amber cut.
						0.4				Hard, brownish black shale.
							1.0			Firm, soft, fine to medium dark brown oil sand.
						0.5				Hard brownish black shale.
							0.1			Fine to medium dark brown oil sand.
						0.2				Hard, brown shale.
							0.6			Fine to medium dark brown oil sand.
						0.5				Hard, brownish, black shale.
								0.1		Hard, coarse, slightly calcareous gray sand.
						0.3				Hard, brownish, black shale.
								0.1		Firm, soft, fine dark gray sand. No odor and no cut.
						9.6				Hard, black to brownish shale.
							0.3			Firm, soft, fine dark brown oil sand. Streaks of mud.
						0.5				Hard brownish black shale. Firm soft fine to medium
							1.3			dark brown oil sand. Strong odor.
						0.6				Hard, brownish black massive shale.
							0.4			Fine, to medium dark brown oil sand. Strong odor and dark amber cut. Good flash
						0.4				Hard, brownish black shale, partings of fine, brown oil sand.
							0.9			Firm, soft, fine to medium dark brown oil sand - strong odor.
						13.0	5.3	0.2		

LONG BEACH UNION OIL OIL OPERATORS #1

56.84

Henry E Winter

937

						Sh.	O.S.	Gy Sd	Shell	
0-21	7	7-5/8 Soil	4110	4125	10.4		5.9			Soft, loose, fine dark brown oil sand. Good odor and dark amber cut. Core has strong flash test.
						0.1				Hard, grayish brown slightly calcareous bentonitic shale. This shale differs from the others and may be a marker.
							0.3			Soft, loose, fine dark brown oil sand.
						0.1				Hard, brownish black shale.
							4.0			Firm, soft, fine to medium dark brown oil sand. Strong odor with strong flash. Streak of shale 0.4 from bottom
						0.2	10.2			
0-21	8	7-5/8 SOIL	4125	4140	12.8		0.4			Soft, loose, grayish brown washed oil sand.
						0.1				Hard, brownish black shale
							0.6			Firm, soft, fine dark brown oil sand.
						0.3				Hard, brownish black shale.
							4.2			Firm soft, fine to medium dark brown oil sand. Dark amber cut.
						0.1				Hard, brown shale.
							4.4			Firm, soft fine to medium dark brown oil sand. Strong odor and dark amber cut. Streak of shale 3.0 from top.
						0.3				Hard, dark, brown shale . Streak of fine brown oil sand.
							2.4			Firm, soft, fine, dark brown oil sand. Strong odor.
						0.8	12.0			
0-21	9	7-5/8 SOIL	4140	4155	13.9		0.2			Firm, soft, fine to medium dark brown oil sand.
									0.3	Hard, slightly calcareous shale shell.
							4.1			Firm, soft, fine to medium dark brown oil sand. Strong odor and dark amber cut.
									0.1	Hard, slightly calcareous shale shell.
						0.1	8.1			Firm, soft, fine to medium dark brown oil sand. Strong odor and dark amber cut. Sand looks good. 0.1 of brown shale 0.3 from bottom.
						0.1	13.4		0.4	

629 South Hill Street
Los Angeles, California
November 11, 1937.

Union Oil Company of California,
Union Oil Building,
Los Angeles, Calif.

Gentlemen: Attention Mr. W. S. Eggleston

In accordance with recent conversation between your office and Engineer Crown of this office, we are correcting your notice of intention to drill, dated August 9, 1937, and the following reports issued by this office, to show the correct designation of the well as "Oil Operators" 1 (instead of "Oil Operators, Inc." 1), Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field:

Nos. P 1-31200; T 1-33187; T 1-33264, and T 1-33300.

Please correct your copies accordingly.

Yours truly,

E. H.

Deputy Supervisor.

Made as Follows	By Whom
Summaries ✓ WJC:EMS	Ems
Elev. and Loc. Cards	
Production Reports	
Well Records { Folders	
Well Records { Reports	
Pen Models	
Graphics	
Field Maps	

CC - Mr. R. D. Bush (2)
Long Beach

Topo 53 RBB
11/12/37.

FORM 109-B. 46392 7-37 8750.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T 1-33300

Los Angeles, Calif. November 5, 1937.

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

121

DEAR SIR:

Your well No. "OIL OPERATORS, ~~INC.~~ "1, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach Field, in Los Angeles County, was tested for shut-off of water on October 20 (Time and date), 1937. Mr. E. R. Murray-Aaron, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present J. R. Kewish, Drilling Foreman, and S. Hagestad and R. Rampton, Engineers.

Location of water tested above 4105' and normal fluid level not reported

Depth and manner of water shut-off: 4105 ft. of 8-5/8 in. 36 lb. / ft. of in. lb. casing was cemented 10-15-37 / ~~landed~~ in shale (Formation)

at 4105 ft. with 400 sacks Victor cement by casing method.

Water string was landed in 12¼" rotary (Size, rotary or cable tool) hole.

Casing record of well 13-3/8" cem. 757'; 8-5/8" as above.

Reported total depth of hole 4110 ft. Hole bridged from xx ft. to xx ft. Hole cleaned out to 4110 ft. for this test.

At time of test depth of hole measured See below ft. and bailer brought up sample of xxxx

At See below (Time and date) oil bailed to xx ft., drilling fluid bailed / swabbed to xx ft.

At " " (Time and date) top of oil found at xxx ft., top of fluid found at xxx ft.

MR. HAGESTAD REPORTED THE FOLLOWING:

1. No casing test was made.
2. 21' of set cement was drilled out of the 8-5/8" casing (equivalent to 6 sacks).
3. The Johnston tester was run into the hole on 4" drill pipe.
4. The wall packer was set at 4086'.

THE INSPECTOR NOTED THE FOLLOWING:

1. The tester valve was opened at 10:48 a. m. and remained open for 30 minutes. During this interval there was a strong, steady blow for the entire test period; gas reached the surface in 3 minutes.
2. The fluid between the drill pipe and the 8-5/8" casing remained stationary during the time that the valve was open.
3. When the drill pipe was removed 90' of oily, gassy mud fluid and 1910' of oil was found in the drill pipe above the tester, equivalent to 1.3 and 27.4 bbl. respectively.
4. The pressure bomb chart showed that the tester valve was open for 30 minutes.

The test was completed at 1:30 p. m.

THE SHUT-OFF IS APPROVED.

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy

cc- H. E. Winter
Long Beach
ERMA:OH

FORM 109-D. 47172 7-37 15M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-33264

Los Angeles, Calif. October 29, 1937

Mr. Ed Jussen, Jr.,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. 1 Sec. 13, T. 4S., R. 13W., S. B. B. & M., "OIL OPERATORS, ~~INC.~~" Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, representative of the supervisor, on Oct. 15, 1937. There was also present H. E. Winter, Engineer, and B. W. Messer, Driller.

Casing Record	Junk
13-3/8" cem. 757'. T. D. 4110'.	None.

The operations were performed for the purpose of demonstrating that the formations between 757' and 4106' were mudded until the loss was not more than 5 bbl. per hr.,

and the data and conclusions are as follows:

MR. WINTER REPORTED THE FOLLOWING:

1. A 12¼" rotary hole was drilled from 757' to 4106' and a 7-5/8" rotary hole was drilled from 4106' to 4110'.
2. Mud fluid was circulated for 2 hr. prior to the test.
3. No record was kept of the loss of mud fluid prior to the test.
4. The drill pipe was hanging at 4070' during the test.
5. Cores were taken from the following important depths:

   4010' - 4040' -- gray sand
   4040' - 4041' -- shell
   4058' - 4071' -- gray sand
   4071' - 4079' -- shale
   4079' - 4092' -- gray sand
   4092' - 4106' -- shale
   4106' - 4110' -- oil sand

THE ENGINEER NOTED THAT during a circulation test from 10:30 a. m. to 11:00 a. m. mud fluid was lost from the pit at the rate of 3 bbl. per hr.
THE MUDDING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval given to cement 8-5/8" casing at 4106' is hereby confirmed.

cc- H. E. Winter
Long Beach
GP:G

R. D. BUSH
State Oil and Gas Supervisor

By E. Augenbaum Deputy

629 South Hill Street
Los Angeles, California
October 8, 1937.

Union Oil Company of California,
Santa Fe Springs, Calif.

Gentlemen: Attention Mr. H. E. Winter.

This will acknowledge receipt of and thank you for your letter of October 7, 1937, giving the elevation of your well No. "Oil Operators, ~~Inc.~~" 1, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field, as 56.84 feet, U. S. G. S.

Our records have been corrected accordingly.

Yours truly,

E. J.

Deputy Supervisor.

B:EMS

CC - Mr. R. D. Bush (2)
Long Beach

[illegible] Made as Follows	By Whom
[illegible] Summaries	
[illegible] Loc. Cards	
Production Reports	
Well Records { Folders	
Well Records { Reports	
Peg Models	
Graphics	
Field Maps	

FORM 401 9-36 70M
PRINTED IN U. S. A.

DIVISION OF OIL AND GAS
RECEIVED
OCT 8 - 1937
LOS ANGELES, CALIFORNIA

Union Oil Company of California

PRODUCERS AND REFINERS OF
CRUDE OIL, FUEL OIL, ROAD OIL AND ASPHALT,
UNION GASOLINE, KEROSENE AND DISTILLATE,
'RED LINE' LUBRICATING OILS AND GREASES.

Santa Fe Springs, Calif. Oct. 7, 1937

Mr. E. Huguenin,
Depty Supervisor,
Division of Oil & Gas,
Los Angeles, Calif.

Dear Sir:

The elevation of the Union Oil Company well "Oil Operators, ~~Inc.~~ #1" in the Long Beach Field (Sec. 13-4S-13W), is 56.84 ft., U.S.G.S.

Our records have been corrected accordingly.

Very truly yours,
Henry E Winter
District Engineer.

HEW:S

M 109-D. 47172 7-37 15M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T1-33187

Los Angeles, Calif. October 22, 1937

Mr. Ed Jussen, Jr.,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS, ~~INC.~~" 1 Sec. 13, T. 4S., R. 13W. S. B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, representative of the supervisor, on Oct. 3, 1937. There was also present R. Rampton, Engineer, and G. Bussett, Driller.

Casing Record	Junk
13-3/8" cem. 757'. T. D. 757'.	--

The operations were performed for the purpose of demonstrating that the known surface waters are adequately protected,

and the data and conclusions are as follows:

THE ENGINEER ARRIVED AT THE WELL AT 3:30 P. M. AND MR. RAMPTON REPORTED THE FOLLOWING:
1. A 17" rotary hole was drilled from the surface to 757'.
2. 763' of 13-3/8" - 45.97 lb. casing was run into the hole to 757'.

THE ENGINEER NOTED THE FOLLOWING:
1. The 13-3/8" casing was cemented at the reported depth of 757' with 350 sacks of Velo cement.
2. The cement was displaced with 662 cubic feet of drilling fluid under a final pressure of 100 lb.

The test was completed at 4:30 p. m.

THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT the known surface waters are adequately protected.

cc- H. E. Winter
Long Beach
GP:G

R. D. BUSH
State Oil and Gas Supervisor

By E. Hugashian Deputy

46011 6-37 20M.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-31200

Los Angeles, Calif. August 16, 1937

Mr. Ed Jussen, Jr.,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

121

Dear Sir:

Your proposal to drill Well No. "OIL OPERATORS, ~~INC.~~" 1, Section 13, T. 4S., R. 13W., S. B. B. & M., Long Beach Field, Los Angeles County, dated Aug. 9, 1937, received Aug. 11, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows: * 56.84' U. S. G. S. (Correction letter 10-8-37)

THE NOTICE STATES:
"The well is 555' S-W'ly along the prolongation of the center line of the W'ly portion of San Antonio Drive from the center line of Del Mar Ave., thence 100' N-W'ly at right angles
The elevation of the derrick floor above sea level will be determined later ~~(Approx. 50')~~. *
We estimate that the first productive oil or gas sand should be encountered at a depth of about _____ feet, more or less."

PROPOSAL:
"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing	Weight	New or Second Hand	Depth	Landed or Cemented
13-3/8"	46	New	700	Cmtd.
8-5/8"	36	New	4100	Cmtd.
6-5/8" Perf. liner	26	New	4150	Landed

Well is to be drilled with rotary tools.
It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION:
THE PROPOSAL IS APPROVED PROVIDED THAT:

1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
   (b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.
3. The formations to be left back of the 8-5/8" casing shall be mudded by open circulation until the loss is not more than 5 bbl. per hr.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   (a) The cementing of the 13-3/8" surface casing.
   (b) Final mudding operations before cementing the 8-5/8" casing.
   (c) A test of the effectiveness of the 8-5/8" shut-off.

cc- H. E. Winter
Long Beach
WJC:G

R. D. BUSH
State Oil and Gas Supervisor

By E. Hagelstein Deputy

24758 9-35 10M
CALIFORNIA STATE PRINTING OFFICE

DIVISION OF OIL AND GAS
RECEIVED
AUG 11 1937
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice must be given before drilling begins

037-09792

General Exploration Co.

SANTA FE SPRINGS Cal. AUGUST 9, 1937

MR. E. HUGUENIN

Deputy State Oil and Gas Supervisor

Los Angeles, Calif. Cal.

DEAR SIR:

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. Oil Operators, ~~Inc.~~ #1 "Oil Operators" 1 (Correction letter 11-11-37), Sec. 13, T. 4-S, R. 13-W, S.B. B. & M., Long Beach Oil Field Los Angeles County. CJB

Lease consists of

The well is 555' S-W'ly along the prolongation of the center line of the W'ly portion of feet N. or S., and feet E. or W. from San Antonio Drive from the center line of Del Mar Ave., thence 100' N-W'ly at right angles
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is ~~Will be determined later (Approx. 50')~~ feet. 56.84' (Correction letter 10-8-37)

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	New or Second Hand	Depth	Landed or Cemented
13-3/8"	46	New	700	Cmtd.
8-5/8"	36	New	4100	Cmtd.
6-5/8" Perf. liner	26	New	4150	Landed

Well is to be drilled with rotary ~~cable~~ tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about feet, more or less.

Respectfully yours

Address Santa Fe Springs, Calif.

UNION OIL COMPANY OF CALIFORNIA
(Name of Company or Operator)

Telephone number Whittier 426-87

By Henry E Winter
District Engineer.

ADDRESS NOTICE TO DEPUTY STATE OIL AND GAS SUPERVISOR IN CHARGE OF DISTRICT WHERE WELL IS LOCATED

Reference to file of data

Map	Block	Section	Forms		
Map 53					
CJB	✓			✓	✓

Wildcat book

8/12/37 CJB

S[redacted] LOGS

Pacific Energy Resources Ltd.

"Oil Operators" 1
NWLBU 8-1
Sec. 13-4S-13W.
LONG BEACH

C[redacted] 1937
F[redacted] 13-3W
W[redacted] ft.

WEST LONG BEACH
Union Oil Co.
Oil Operators #1
UN No. C. 4-100

Casing shoe depth:	Driller	757 ft.	Started run	5:45 p m.
	Schlumberger	757 ft.	Finished run	8:00 p m.
Bottom Depth:	Driller	4041 ft.	Time well occupied by outfit	2¼ h.
Max. depth reached by lower elect		4043 ft.	Time waiting at well	0:45 h.
Max. footage measured (p or S. P.)		3286 ft.	Mileage incurred by run	15 M.
Footage missed		-- ft.	Total time incurred by run	4 h.

MUD CHARACTERISTICS

121

NATURE : natural VISCOSITY : 34 LEVEL :
DENSITY : 73 RESISTIVITY : 10½

DIAMETER OF HOLE

1-263

12¼" to 4000 ft.
7-5/8" to 4041 ft.

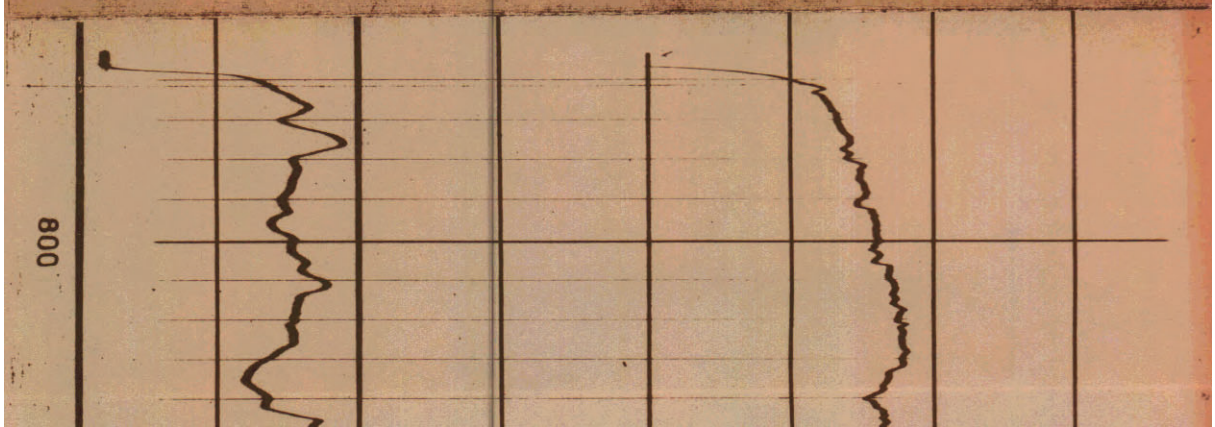
REMARKS

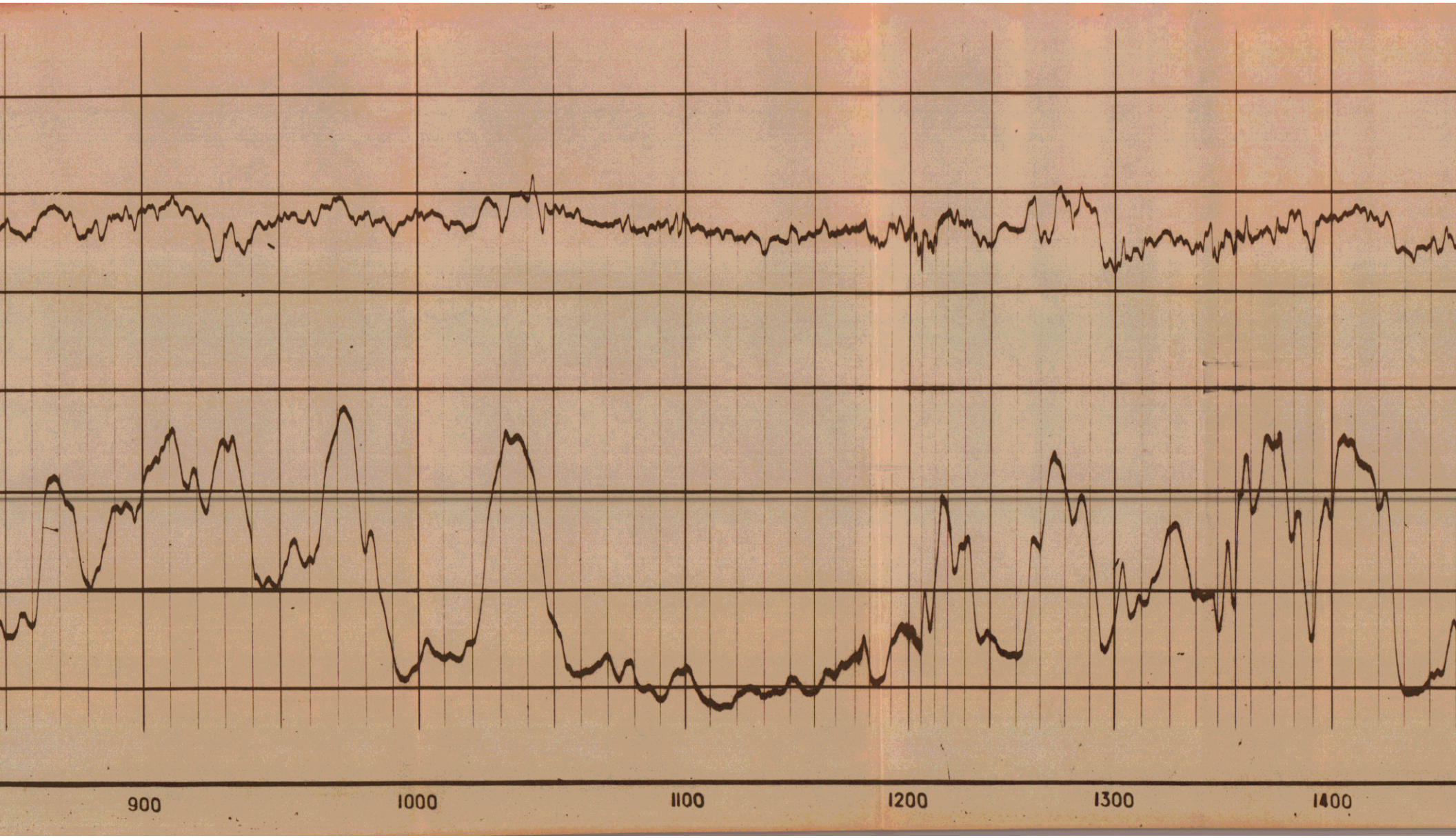
Device: 20"

Witnessed By : Mr. Winter

OBSERVERS : J. WALSTROM

DEPTH	RESISTIVITY LOG ohms. m²m	POROSITY LOG millivolts
	0 15 30	-------150 m.v.---------

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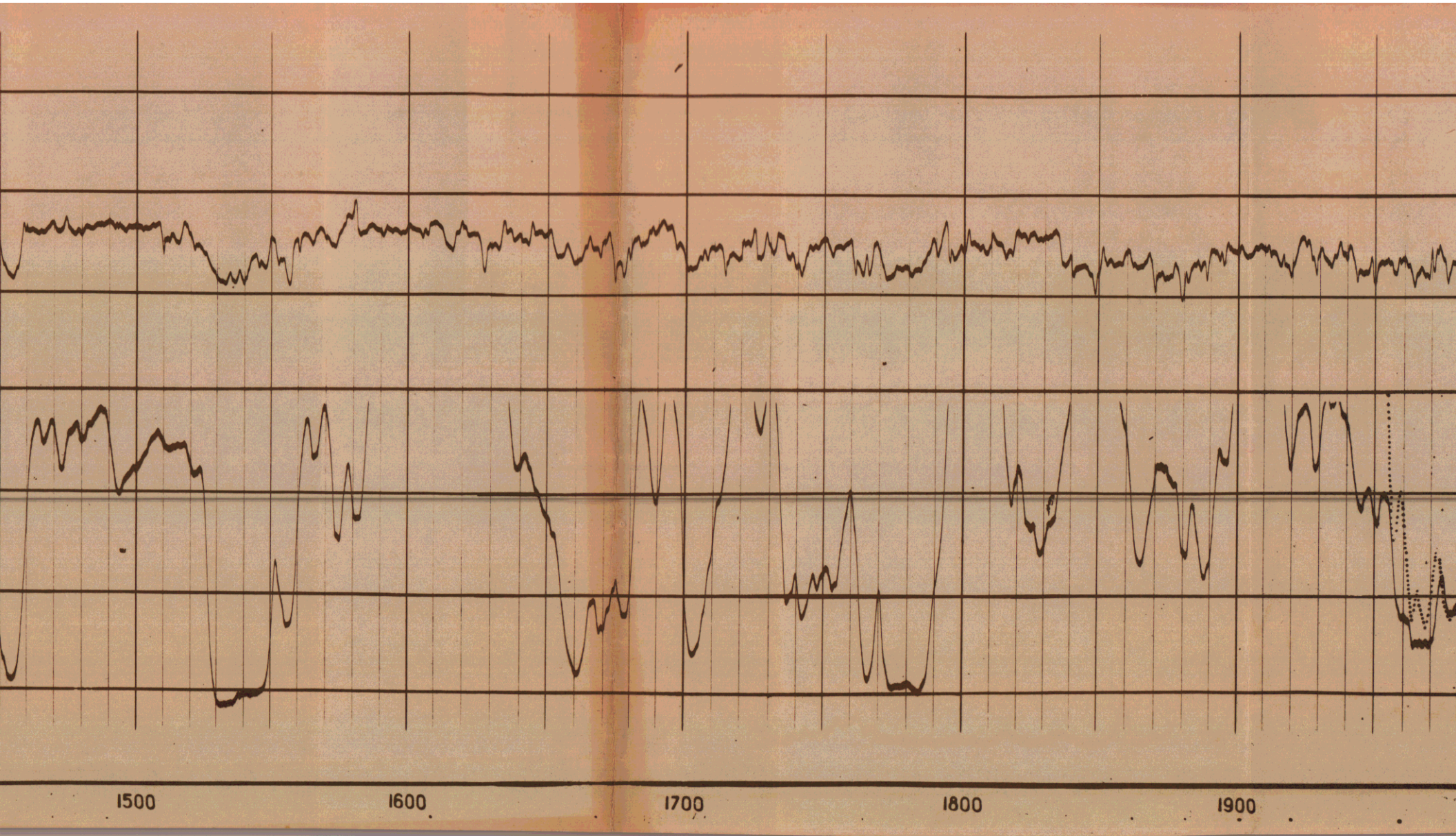
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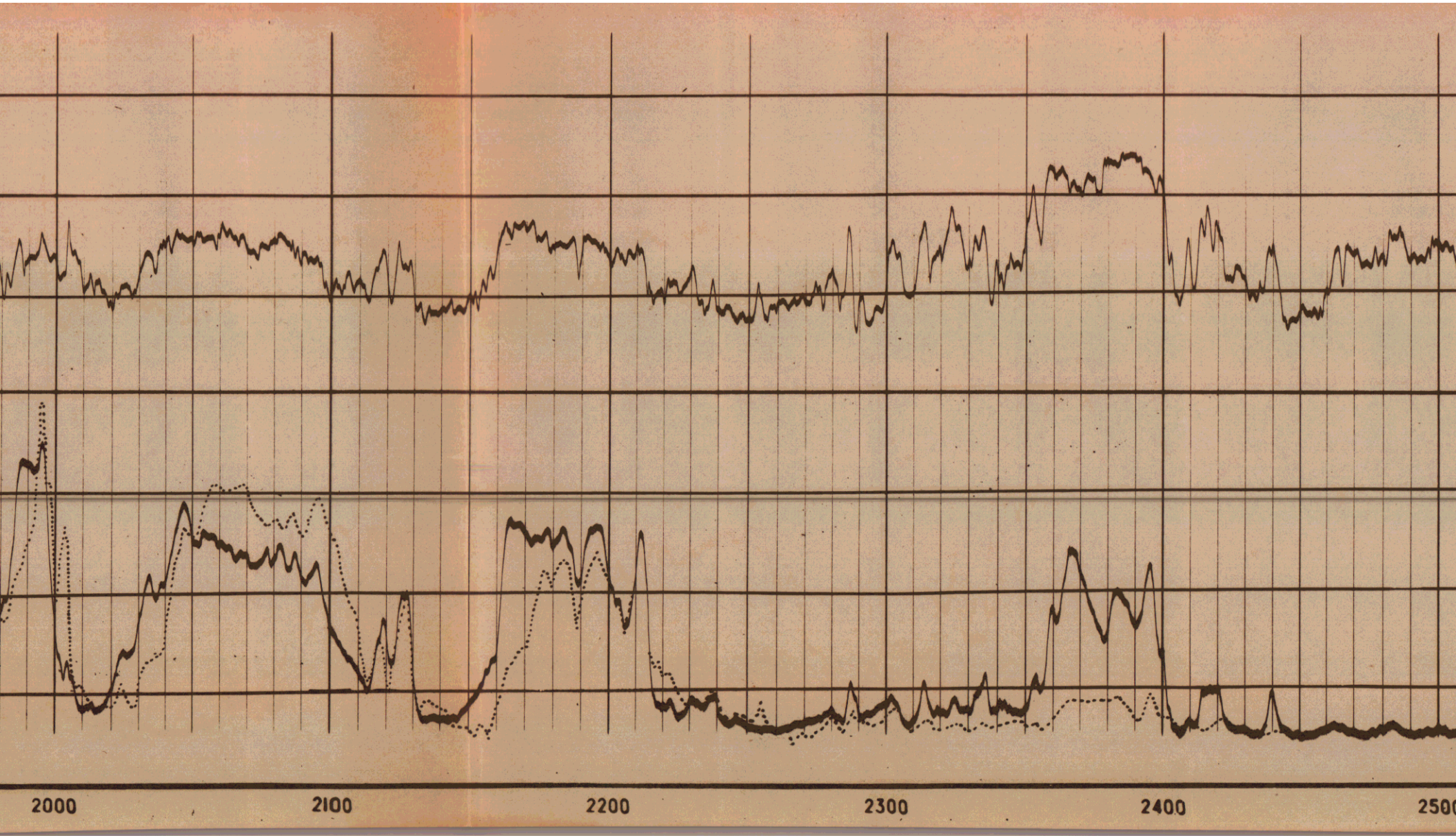
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2200
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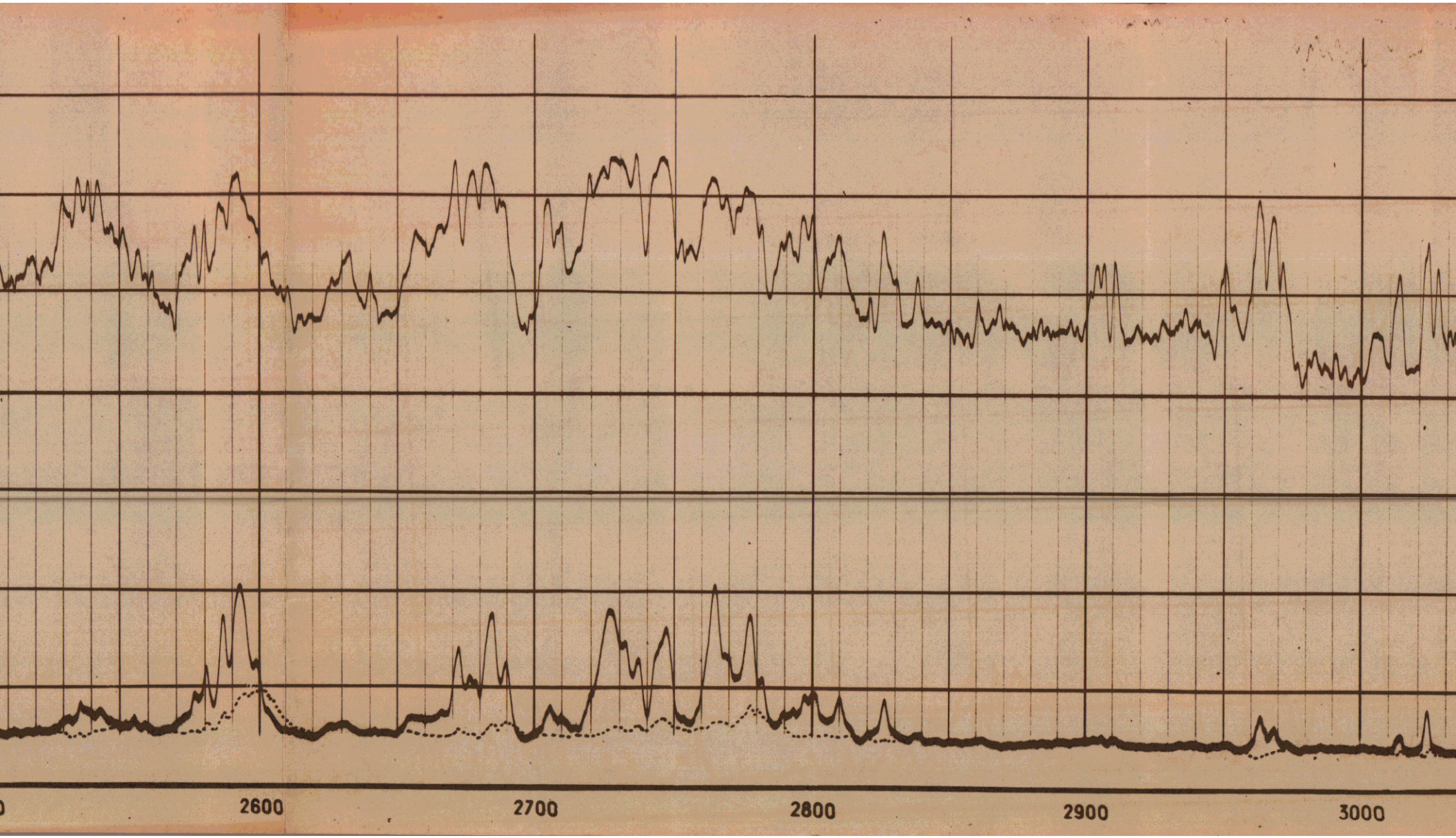
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2700
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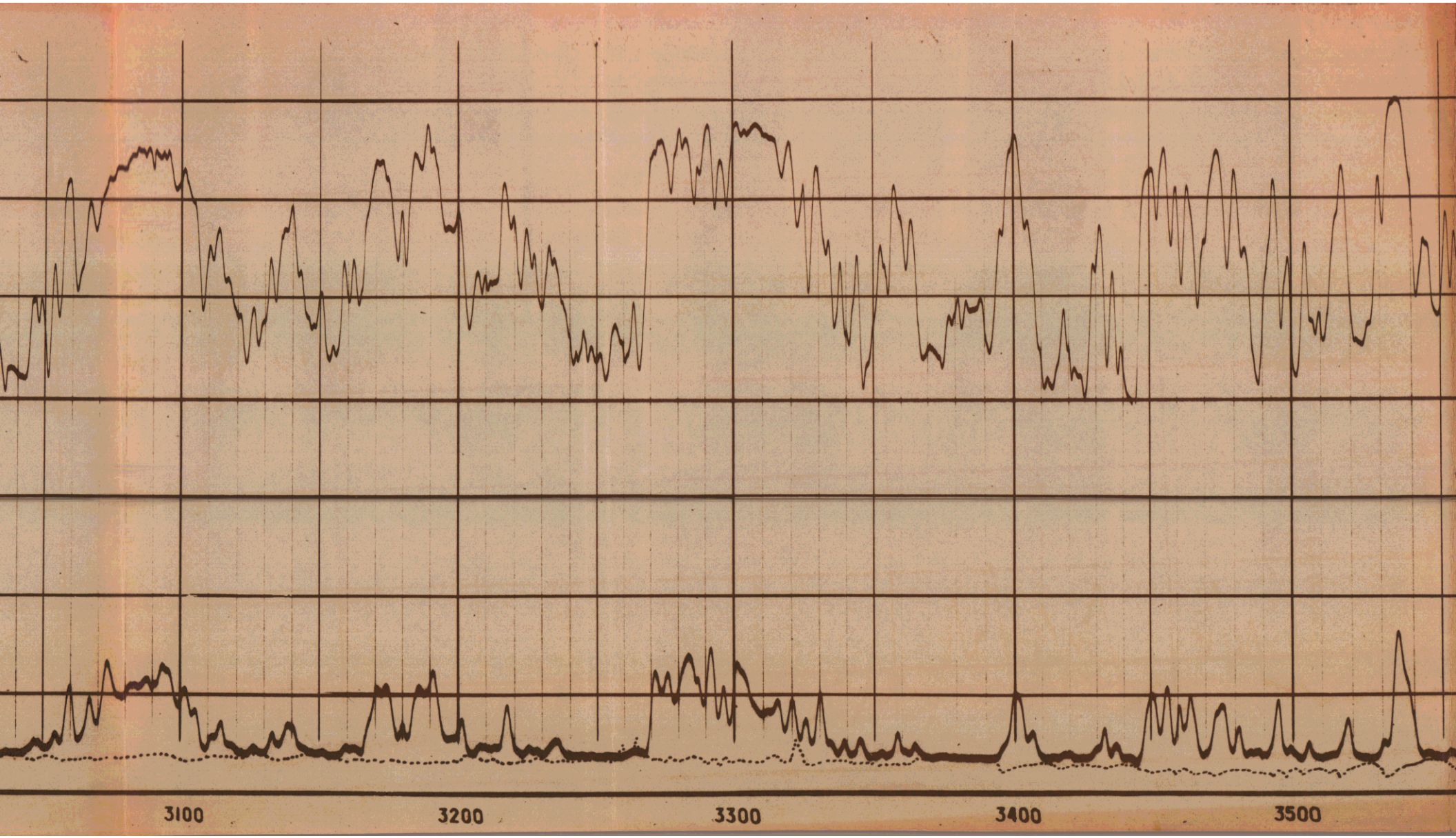
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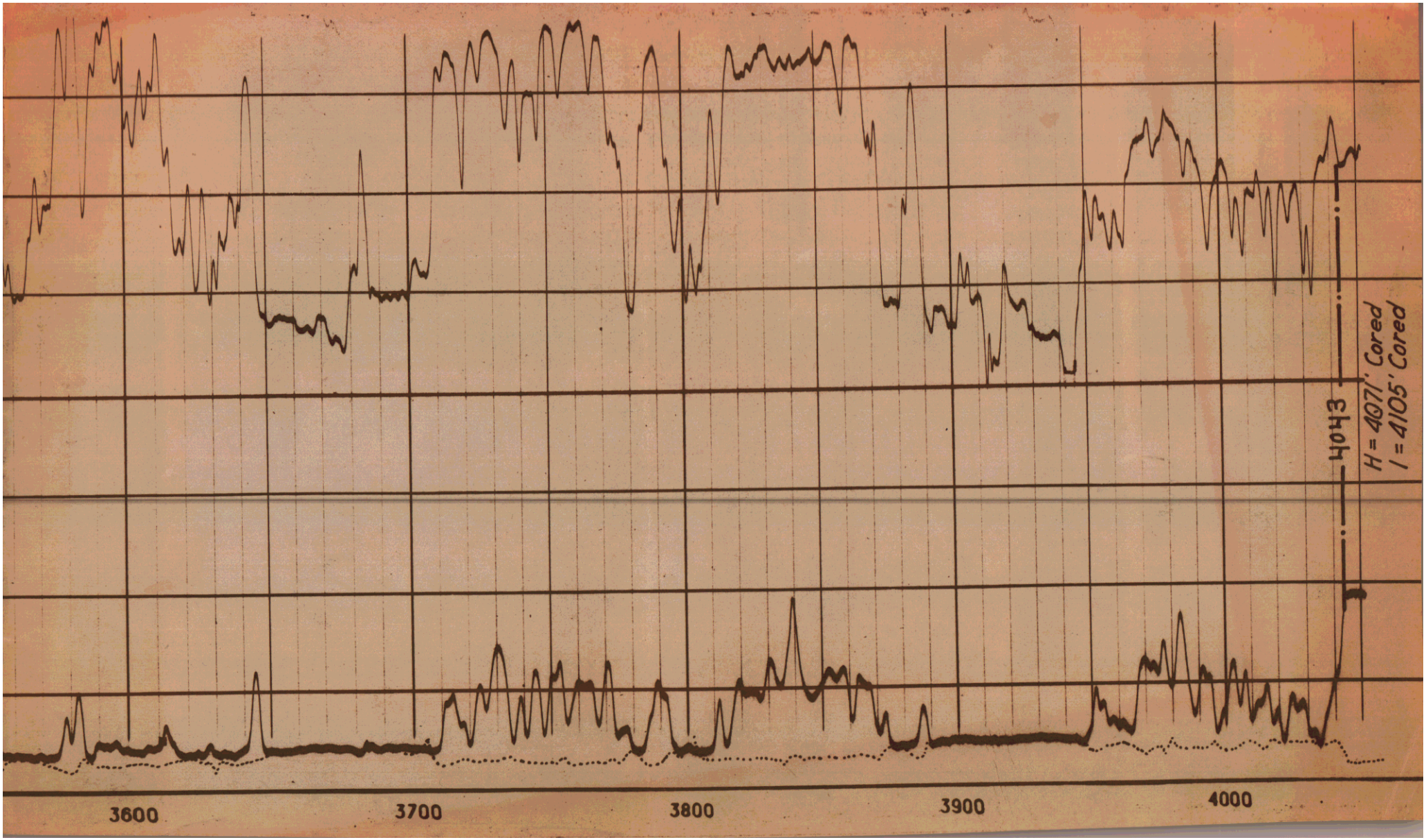
3200
3300
3400
3500


H = 4071' Cored
I = 4105' Cored
3600
3700
3800
3900
4000

RECEIVED 1-263

Pacific Energy Resources Ltd.

(037-09792)

~~"Oil Operators" 1~~

NWLBU 8-1

Sec. 13-4S-13W. LONG BEACH

S... RGER

...ATION

COMPANY: UNION OIL COMPANY OF CALIFORNIA

FIELD: Long Beach

WELL: Oil Operators #1

COUNTY: Los Angeles

FILING NO: C-5-1493

CO... IA

WELL: Oil Operators #1

RUN NO: Second

ELEVATION: Sec 13-4S-13W

SMB

FIELD: Long Beach

Reference to file of data

COUNTY: Los Angeles

STATE: California

Casing shoe depth:	Driller	4105 ft.	Started run	4:15 p. m.
	Schlumberger	ft.	Finished run	5:45 p. m.
Bottom Depth:	Driller	4532 ft.	Time well occupied by outfit	1½ h.
Max. depth reached by lower elect		4532 ft.	Time waiting at well	¼ h.
Footage measured		427 ft.	Mileage incurred by run	10 M.
Footage missed		1 ft.	Total time incurred by run	3 h.

1-263

1-263

DIAMETER OF HOLE

from ..... to 4532' 7-5/8"

from ..... to .....

from ..... to .....

Bottom Temperature 126 °F

MUD CHARACTERISTICS

Nature: Natural

Weight: 72

Viscosity: 500 cc Marsh Funnel 32

Resistivity: 8.9 @ ..... °F

REMARKS

Device: Long

Note: 60 Ohms scale attached at bottom

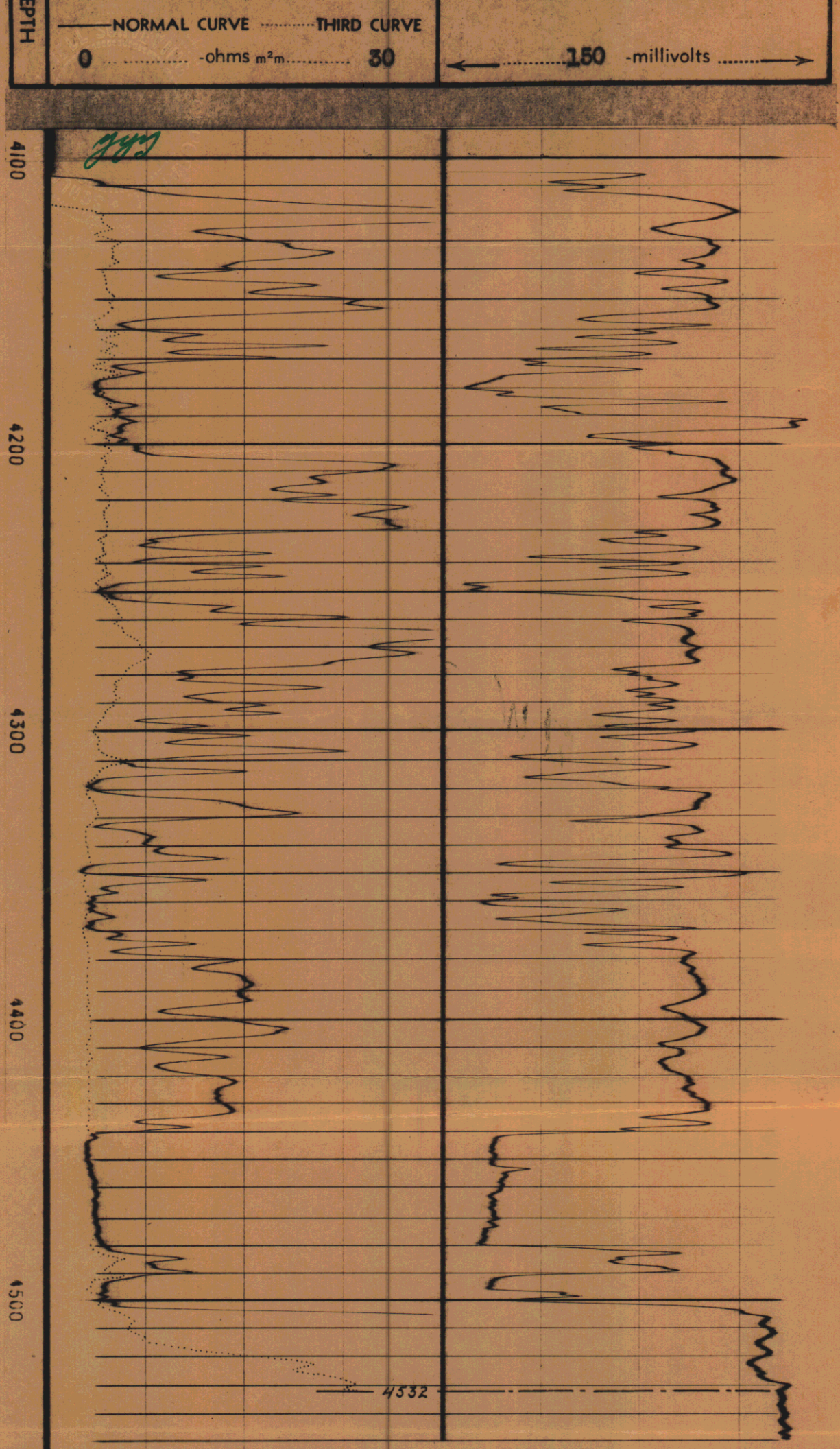
Depth measurements taken from: Top of rotary table

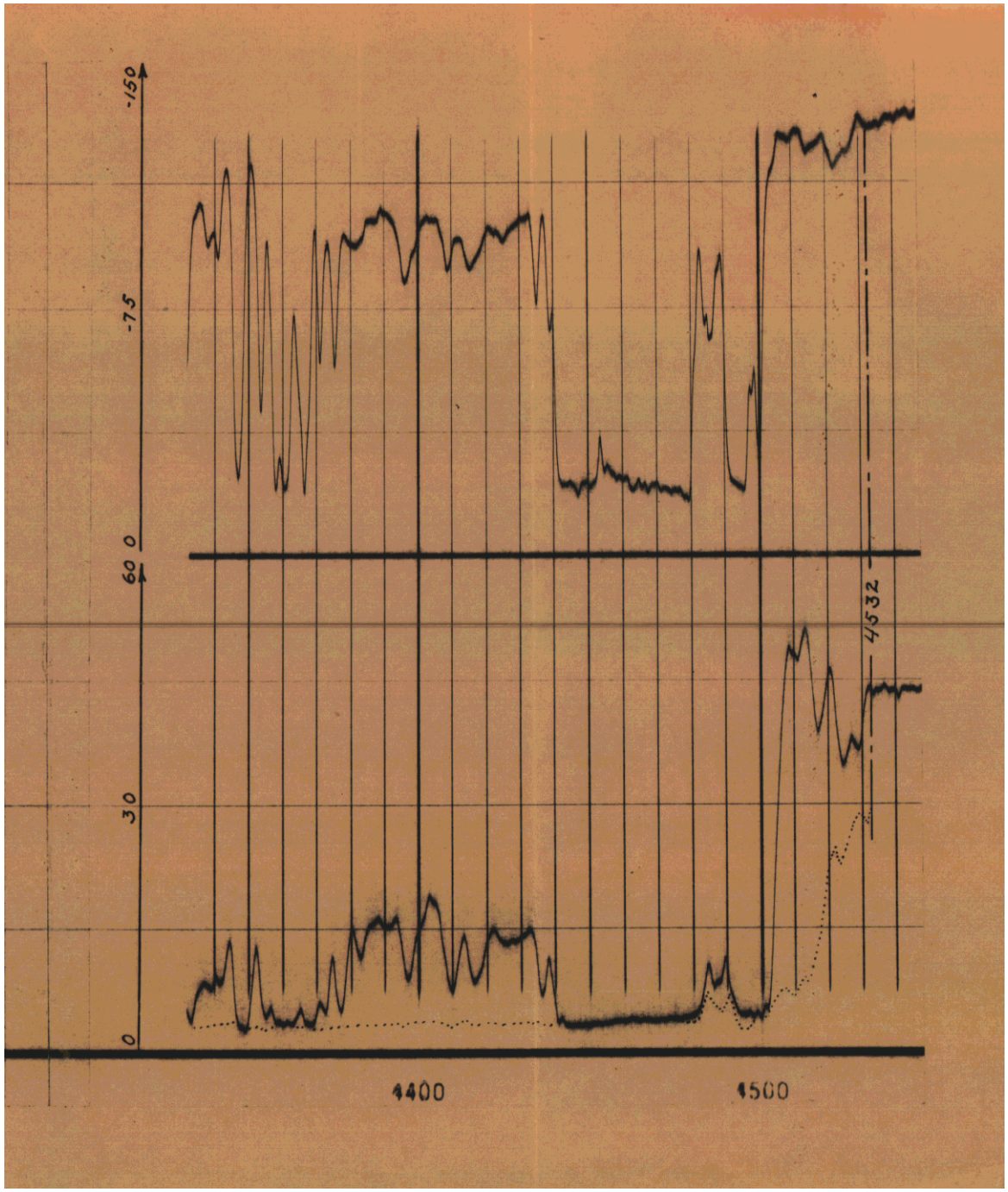
Maximum Pull 1800 lbs. at 4532 ft.

Witnessed By: Mr. Winter

DATE August 13, 1939 OBSERVERS V. T. FANT

D	RESISTIVITY	SELF-POTENTIAL


EPTH
NORMAL CURVE
THIRD CURVE
0
-ohms m²m
30
150
-millivolts
4100
4200
4300
4400
4500
4532


-150
-75
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60
30
0
4532
4400
4500

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or county Wilmington, Long Beach, Montebello, Rosecrans, Rosecrans East, Torrance, and Newport West.		District One/Cypress
Former owner Pacific Energy Resources	Operator code P0250	Date 7/10/2007
Name and location of well(s) See Attatchment		
Description of the land upon which the well(s) is (are) located See Attachment		

Date of transfer, sale, assignment, conveyance, or exchange 06/14/2007	New owner Pacific Energy Resources Ltd.	Operator code P0250	Type of organization Partnership
	Address 111 West Ocean Blvd Long Beach, CA 90802		Telephone No. (562) 628-1526

Reported by OG30A Both Signed	
Confirmed by	
New operator new status (status abbreviation) PA	Request designation of agent Darren Katic, Agent
Old operator new status (status abbreviation) NPI	Remarks See Operator File

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor R.K. Baker	Signature Kenneth Carlson Ken Carlson Associate Engineer

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121			Map and book		
Form OGD140			Notice to be cancelled		
New well cards			Bond status	VM	7-11-07
Well records			EDP files		
Electric logs			Computer Files	VM	7-11-07
Production reports					

OGD156 (5/98)

WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY CORP.
SEE OGD156 DATED 5-13-94

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Long Beach, California

March 9, 1993

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Your report of the plugging and abandonment of well **NWLBU 8-1**, A.P.I. No. **037-09792**, Section **13**, T. **4**S, R. **13**W, S.B. B.& M., **Long Beach** Field, **Los Angeles** County, dated **10-6-92**, received **10-7-92**, has been examined in conjunction with operations witnessed and records filed in this office. We have determined that all of the requirements of this Division have been fulfilled.

NOTE: Surface plugging completed on **7-3-92**.

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

By R.C. Manuel
For R. K. Baker, *Deputy Supervisor*

KMCdf

cc: Update
Conservation Committee
L.A. County Assessor
L.A. County Fire Prevention Bureau
Don Callow, City of Signal Hill

OG159

DIVISION OF OIL AND GAS

CHECK - RECORDS RECEIVED AND WELL US

Company Peto Resources, Inc. Well No. NWLBU 8-1

API No. 037-09792 Sec. 13, T. 4S, R. 13W, S.B. B.&M.

County Los Angeles Field Long Beach

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	10/7/92 (D)
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

10-6-92

STATUS		STATUS	
Producing - Oil		Water Disposal	
Idle - Oil		Waterflood	
Abandoned - Oil		Steamflood	
Drilling - Idle		Fire Flood	
Abandoned - Dry Hole		Air Injection	
Producing - Gas		Gas Injection	
Idle - Gas		CO_2 Injection	
Abandoned - Gas		LPG Injection	
Gas-Open to Oil Zone		Observation	
Gas Storage		Waterflood Source	

DATE _____ "E" well Yes ☐ No ☐

RECOMPLETED

REMARKS

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) ✓
2. Electric Log
3. Operator's Name ✓
4. Signature ✓
5. Well Designation
6. Location
7. Elevation
8. Notices ✓
9. "T" Reports ✓
10. Casing Record
11. Plugs ✓
12. Surface Inspection ✓
13. Production
14. E Well on Prod., enter EDP
15. Directional Survey

CLERICAL CHECK LIST

1. Location change ____ (F-OGD165)
2. Elevation change ____ (F-OGD165)
3. Form OGD121 fc
4. Form OG159 (Final Letter) 3/9/93
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)
8. EDP (F-OGD42A-1, 2)

Surf. Insp. 2/14/92 GM

Final Letter

UPDATE CENTER 3-22-93

RECORDS NOT APPROVED

Reason:

RECORDS APPROVED Km 2/11/93

RELEASE BOND

Date Eligible

(Use date last needed records were received.)

MAP AND MAP BOOK F.S.L. 3-8-93

LONG BEACH OFFICE - USE REVERSE SIDE

OGD2 (6/91/GSR1/5M)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Petro Resources, Inc. Field Long Beach County Los Angeles
Well NWLBU 8-1, Sec. 13, T 4S, R 13W, S.B. B. & M.
A.P.I. No. 037-09792 Name Joe D. Rose (Person submitting report) Title Manager (President, Secretary or Agent)
Date Oct. 6, 1992

Signature

4200 Easton #16, Bakersfield, Ca. 93309 (Address) (805)323-4118 or 323-6922 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1/31/84	Ran 3-3/4" bailor to 518'. Bailed pieces of wood. Ran 6-3/4" bit.
2/3/84-2/6/84	Drill and mill wood and steel to 558'. Ran I.B., appears to be angle iron in hole. (Mill worn down on outside 6" diameter).
6/2/92	MIRU Finley Oilwell Service.
6/3/92	7" I.B. to 551'. Mark on outside of 7". Ran in sawtooth on 2-7/8" to 551'. Ran 1-1/4" tubing to 551'. No go.
6/4/92	Pickup power swivel,spools for wellhead etc. Short day.
6/5/92	Ran 7-3/8" shoe and 1 ft. washover pipe. Wash 551-554'. Pull @ 25,000# to free string. No fish. 2' worn inprint inside shoe.
6/8/92	Ran 7" shoe with skirt drill 551-555'. Torque up, pull 32,000#, slipped off. Ran again to 554', won't go. Torqued up.
6/9/92	Ran 7-3/8" x 6-5/8" ID diamond friction shoe -- no catch. Diamond friction springs flattened. Ran 7-5/8" bit drill hard, torquing, getting wood and metal. Drill to 555'.
6/10/92	Ran piloted cone buster mill 554-556'. Torqued up. 7" I.B., no impression. Ran 6-3/4" junk mill, flat bottomed. Mill 556-557'. Ran I.B., indicated 6" OD metal tube looking up.
6/11/92	Ran 4-3/8" magnet. Recovered 2 gallons of metal pieces and wood. Bolt pieces, pipe fragments, etc. Ran 4-5/8" mill, mill to 558', Ran I.B. - indeterminate.
6/12/92	Ran 4-1/2" washover shoe, c.o. to 564'. POOH, recover 6' - 3-1/2" OD metal tube split and twisted w/ID of interior full of redwood pieces and splinters. Ran again, wouldn't go. Blanks off like we are inside of a core inside of wood.
6/15/92	Ran 4-9/16" junk mill, c.o. to 573'. Lots of wood and some metal shavings. Ran 7-5/8" 2 cone bit, c.o. to 575'. Wood and metal.
6/16/92	Ran 2 prong spear. Recover 3' of 1" drilling line. Re-run. Recover misc. wire pieces, metal and wood. Ran magnet, a gallon of pieces of metal.
6/17/92	Load out tools. Rig up 10-900 double gate BOP. Shoot 8- 1/2" holes 578-70'. RIH with Baker permanent cement retainer set at 537'. Pump away at 0-200 psi.
6/18/92	Pump 250 sx. cmt. through retainer and out perfs. Open valve between 8-5/8" and 13-3/8" casing and circulate. Spot 273 sx - pull out of the retainer and circulate 162 sx. inside 8-5/8" casing, filling the 8-5/8" from 578' to surface, and 250 sx. of cement pumped away down from 578' on the outside of the 8-5/8" casing. Total 685 sx. cement.
7/3/92	Cut off casing 8' below ground level and welded on metal cap. Both strings observed to be full of cement.

RECEIVED
92 OCT -7 PM 1:28
DIVISION OF OIL & GAS
LONG BEACH, CA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

No. T 192-610

Report on Operations

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach Calif.
July 13, 1992

Your operations at well NWLBU 8-1, API No. 037-09792,
Sec. 13, T. 4S, R. 13W, S.B. B. & M. Long Beach
Field, in Los Angeles County,
were witnessed on 7-3-92. J. Hebein, Engineer, representative of
the supervisor, was present from 1400 to 1405.
There were also present Dave Dahlman
Present condition of well: 13 3/8" cem 757'; 8 5/8" cem 4105', cp 570'; 6 5/8" ld 4024'-4529', cp 4475'. Junk below 580'. TD 4532'. Bp 4200'. Plugged w/cem 4529'-4443', 4200'-4124', w/523 sx cem below 535' & w/cem 535'-8'.

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

DECISION:

APPROVED.

NOTE: The required Class II2M blowout prevention equipment was inspected and approved on 6-18-92.

DEFICIENCIES: None.

CONTRACTOR: Finley Oil Well Service, Inc.

Surface Inspection Approved 7-14-92
gm

JH:df

cc: Update
Callow, Signal Hill

K. P. Henderson, Acting Chief
State Oil and Gas Supervisor
By R. C. Manner
Deputy Supervisor
for R. K. Baker

OG109 (9/91/GSR1/5M)

EDP 7-10-92

192-610 lm 7/10/92

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator Petro Resources, Inc. Well No. NWLBU 8-1
API No. 037-09792 Sec. 13, T. 4S, R. 13W, S.B. B&M
Field Long Beach, County Los Angeles. On 7/3/92,
Mr./~~Ms.~~ J. Hebein, representative of the supervisor, was present from 1400 to 1405.
There were also present Dave Dahlman, Pacific Energy Resources

Casing record of well: 13 3/8 cem 757'; 8 5/8 cem 4105', cp 570'; 6 5/8 ld 4024'-4529', cp 4475'. Junk below 580'. TD 4532'. Bp 4200'. Plugged w/cem 4529'-4443', 4200'-4124', w/523 sx of cem below 535' + w/cem 535'-8'.

The operations were performed for the purpose of (L)

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____' is approved.

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
				6/18/92	Ret. @ 535'		returned	6'	523 SX	300	8 1/2" holes @ 570'

B/D 26 gt/m @ 200 psi.

Casing/tubing recovered: _____" shot/cut at _____', _____', _____' pulled fr. _____';
_____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): below 580'

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.

- NOTE (K) II 2M 6/18/92

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
6/18/92	162 Sx / 523 Sx	Ret. @ 535'	0900	M. Saw	8' *	visual	7/3/92 1403	J. Hebein

C/O 580', bad csg @ 551'
* plate welded on 20" conductor

OGD10 (9/91/GSR1/5M)

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Finlay Oil Well Service, Inc.

API No. _____ DIVISION OF OIL AND GAS T_____

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator Petro Resources, Inc. Well NWLBU 8-1
Field Long Beach County L.A. Spud Date

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	6/18/92	M. Saw	(0850 to 0900)	J. Meyers	R.F.
2nd			(to)		

Contractor _____ Rig # _____ Contractor's Rep. & Title _____
Casing record of well: _____

MEMO

OPERATION: ~~Testing~~ (inspecting) the blowout prevention equipment and installation.
DECISION: The blowout prevention equipment and its installation on the _____" casing are approved.

Proposed Well Opns: Abandon . MACP: _____ psi
Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

REQUIRED BOPE CLASS: II 2M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details	Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recovery Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
Rd	2/8	Shaffer	Mech	8	3000	—							
Rd	CSO	"	"	8	"	—							
						TOTAL:							

ACTUATING SYSTEM
Accumulator Unit(s) Working Pressure _____ psi
Total Rated Pump Output _____ gpm
Distance From Well Bore _____ ft.

	Accum. Manufacturer	Capacity	Precharge
1		gal.	psi
2		gal.	psi

CONTROL STATIONS	Elec.	Hyd.	Pneu.
Manifold at accumulator unit			
Remote at Driller's station			
X Other: Handwheels			

EMERG. BACKUP SYSTEM			Press.	Wkg. Fluid
N_2 Cylinders	1	L= "		gal.
Other:	2	L= "		gal.
	3	L= "		gal.
	4	L= "		gal.
	5	L= "		gal.
	6	L= "		gal.
		TOTAL:		gal.

AUXILIARY EQUIPMENT

	No.	Size (in.)	Rated Press.	Connections Weld	Flange	Thread	Test Press.
Fill-up Line							
X Kill Line		2	2000			X	
Control Valve(s)							
Check Valve(s)							
Aux. Pump Connect.							
Choke Line							
Control Valve(s)							
Pressure Gauge							
Adjustable Choke(s)							
Bleed Line							
Upper Kelly Cock							
Lower Kelly Cock							
Standpipe Valve							
Standpipe Press. Gauge							
X Pipe Safety Valve		2/8	2000				
Internal Preventer							

HOLE FLUID MONITORING EQUIPMENT	Alarm Type Audible	Visual	Class
Calibrated Mud Pit			A
Pit Level Indicator			B
Pump Stroke Counter			B
Pit Level Recorder			C
Flow Sensor			C
Mud Totalizer			C
Calibrated Trip Tank			C
Other:			

Hole Fluid Type	Weight	Storage Pits (Type & Size)

REMARKS AND DEFICIENCIES: _____

OGD9 (12/90/GSR1/2M)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P 192-651

412 (field code)
03 (area code)
-- (new pool code)
00 (old pool code)

PERMIT TO CONDUCT WELL OPERATIONS

Joe D. Rose
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach, California
June 16, 1992

Your _____ proposal to abandon well NWLBU 8-1, A.P.I. No. 037-09792, Section 13, T. 4S, R. 13W, S.B. B.& M., Wilmington field, Northwest Extension area, -- pool, Los Angeles County, dated 6-12-92, received 6-15-92, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, equivalent to this division's Class II2M requirements, or better, shall be installed and maintained in operating condition.
2. All portions of the hole not plugged with cement shall be filled with clay base mud having a minimum density of 72 lb/cu ft and a minimum gel-shear strength of 25 lb/100 sq ft.
3. This division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
4. THIS DIVISION SHALL BE NOTIFIED TO:
   a. Witness the clean-out depth.
   b. Witness the placing, location and hardness of the cement plug from 550' to 5' inside and outside the 8 5/8" casing.
   c. Inspect and approve the cleanup of the well site.

NOTES:

1. A crew drill may be required at the time of the blowout prevention equipment inspection.
2. The proposed surface plug shall not contain rock or gravel.
3. The base of the freshwater sands is at 2100'±.
4. Report on Operations (OG 109) (T-Report) and Report of Well Abandonment (OG 159) will not be released until all records and histories are on file with this Division.
5. This Division does not recommend building over or in proximity of this well.

KMC:ss

cc: Update
Don C. Callow, City of Signal Hill

BLANKET BOND

Engineer Kenneth M. Carlson

Phone (310) 590-5311

K.P. HENDERSON, Acting Chief

By R.C. Manuel
For R.K. Baker, Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111

OG

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin.

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS 114	FORMS 121
6/12/92	BB 6/12/92	6/12/92	6/12/92

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWLBU 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County. commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532', junk @ 551'

2. Complete casing record, including plugs and perforations:
13-3/8" csg. cmtd. @ 757'
8-5/8" csg. cmtd. @ 4105'
6-5/8" 4024-4529', cp @ 4475'.
PB 4520-4443', BP @ 4200'. Cmt. plug 4200-4124'.

3. Last produced N-A
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)

or

4. Last injected Never
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Additional data for dry hole (show depths)

5. Oil or gas shows

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 2100'

The proposed work is as follows:

1. Perforate 8 - 1/2" holes at 550'.
2. Set cement retainer at 500', squeeze 250 sxs. through retainer to squeeze below shoe of 13-3/8" surface casing.
3. Peforate 8- 1/2" holes at 480'. Establish circulation between 8-5/8" and 13-3/8" casings. Circulate cement leaving 8-5/8" and annulus between 8-5/8" & 13-3/8" full of cement - use 500 sx. cmt.
4. Cut off casing strings 6' below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 4200 Easton #16 (Street)
Bakersfield, Ca. 93309
(City) (State) (Zip)
Telephone Number (805) 323-4118

Petro Resources, Inc. (Name of Operator)
By Joe D. Rose (Name) 6-12-92 (Date)
Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

FORM 108 (REV. 1-73)

10341-705 1-73 10M ⓑ OSP

~~Fax~~

Jan Hunt N

(310) ~~[illegible]~~ Fax

595 0310

Peter

Vern Rice

NWLB 8-1[illegible]

FINLEY OILWELL SERVICE INC.
• DRILLING
• PULLING
• BAILING

VERN RICE

PRODUCTION SUPERINTENDENT

Mailing Address
P.O. Box 92527
Long Beach, CA 90809-2527

2945 Junipero Ave.
Signal Hill, CA
(213) 595-4505

RECEIVED
92 JUN 15 PM 1:35
DIVISION OF OIL & GAS
LONG BEACH, CA

TO: Ken

ROOM/STA. NO.

FROM: Vern

ROOM/STA. NO.

REPRESENTING

DATE: 6-16 | TIME: 11:45 | PHONE: (310) 595-4505 | ATSS ☐

☐ Telephoned ☐ Please call ☐ Was In
☐ Returned Call ☐ Will Call Again ☐ Wants To See You

☐ Information ☐ Comment ☐ Investigate ☐ Contact Me

NOTE and: ☐ Re-route ☐ Return ☐ File

REPLY: ☐ My Signature ☐ Copy Me ☐ Forwarded Per Request

MESSAGE/REMARKS

Did you fax the notice yet?

BY FAX (310) 595-0310

STATE OF CALIFORNIA
MESSAGE
STD 7 (REV 1/90) 89 54047

PROTECT YOUR INFORMATION ASSETS

OG

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin.

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS 114	FORMS 121
6/12/92	BB 6/12/92	6/12/92	6/12/92

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWLBU 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County, commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532', junk @ ~~551'~~ 560'

2. Complete casing record, including plugs and perforations:
13-3/8" csg. cmtd. @ 757'
8-5/8" csg. cmtd. @ 4105'
6-5/8" 4024-4529', cp @ 4475'.
PB 4520-4443', BP @ 4200'. Cmt. plug 4200-4124'.

3. Last produced N-A (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)

or

4. Last injected Never (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Additional data for dry hole (show depths)

5. Oil or gas shows

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 2100'

The proposed work is as follows:

1. Perforate 8 - 1/2" holes at 550'.
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3. Peforate 8- 1/2" holes at 480'. Establish circulation between 8-5/8" and 13-3/8" casings. Circulate cement leaving 8-5/8" and annulus between 8-5/8" & 13-3/8" full of cement - use 500 sx. cmt.
4. Cut off casing strings 6' below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 4200 Easton #16 (Street)
Bakersfield, Ca. 93309
(City) (State) (Zip)

Telephone Number (805) 323-4118

Petro Resources, Inc. (Name of Operator)

By [signature] (Name) 6-12-92 (Date)
Joe D. Rose

Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

FORM 108 (REV. 1-73)

10541-708 1-73 10M © CSP

RECEIVED

92 JUN 12 AM 11:01

DIVISION OF OIL & GAS
LONG BEACH, CA

PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

To : KEN CARLSON DIVISION OF O&G

Receiving FAX telephone : 310/590/5301

1 more page follows this cover page

Sent by :

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, , CA 93309

FAX Telephone : 805/323/8567
Voice Telephone : 805/323/4118

In case of trouble, contact : 805 323 4118

Sent on 06-12-1992 at 10:56

RECEIVED

92 JUN 12 AM 11:01

DIVISION OF OIL & GAS
LONG BEACH, CA

PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

To : KEN CARLSON DIVISION OF O&G

Receiving FAX telephone : 310/590/5301

1 more page follows this cover page

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Voice Telephone : 805/323/4118

In case of trouble, contact : 805 323 4118

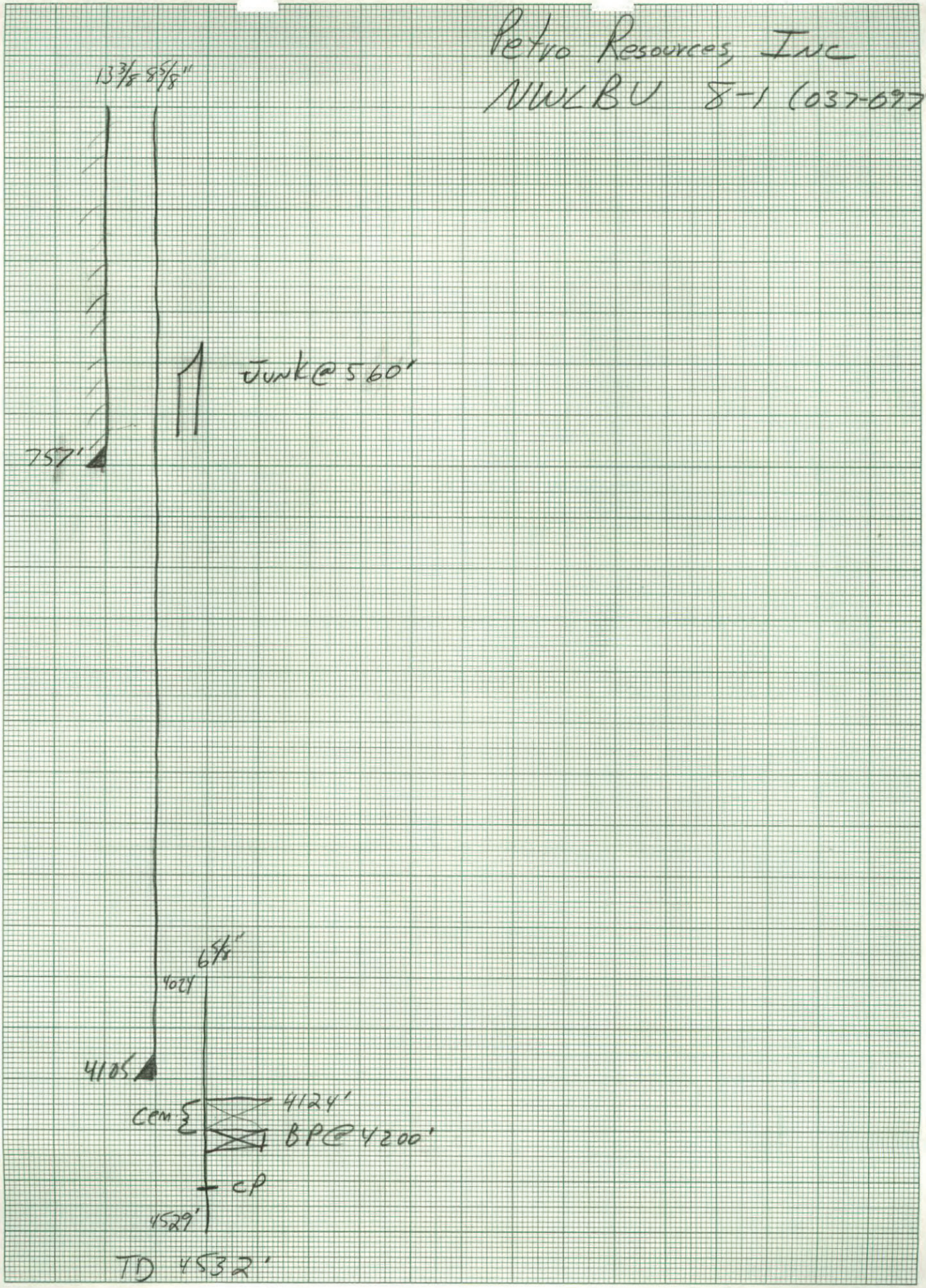
Sent on 06-12-1992 at 10:56

RECEIVED

92 JUN 12 AM 11:01

DIVISION OF OIL & GAS
LONG BEACH, CA

Petro Resources, Inc
NWLBU 8-1 (037-09792)



46 1510
K+E 10 X 10 TO THE CENTIMETER 18 X 25 CM.
KEUFFEL & ESSER CO. MADE IN U.S.A.

PETRO RESOURCES I

Cost Sheet 6-2-92 thru 6-11-92 NWLB 8-1

		Daily	Accum.
John M Phillips Co. :	12-900 x 8-900 X-OVER SPOOL	20.00	180.00
	8-900 PGSR	25.00	225.00
	1 EA 3½ IF P/ Lifter	15.-5.	30.00
	1 SET 4½" Tong JAWS	45.-45.	135.00
	1 SET 4½" SLIP INSERTS	20.-20.	60.00
	2 EA 4 3/4" DRILL COLLARS	10.-5.	50.00
	SOS TRUCK DELIVERY	98./HR.	200.00
		SUB TOTAL	$880.00
MARLIN Pacific:	TRUCKING	70./HR	600.00
	6 3/4" Junk mill ✓	205./EA.	1435.00
		SUB TOTAL	$2035.00
JET BAILER:	7" IMPRESSION BLOCK	PER JOB	196.00
	4" " "	" "	98.00
	4 3/8" " "	" "	110.00
	4 3/8" MAGNET	" "	100.00
		SUB TOTAL	$504.00
MIDWAY Fishing:	7" WASHOVER SHOE ✓	155./EA	1085.00
	7" W/O EXTENSION	170./85.	170.00
	7" DRIVE SUB F/W/O	260./135.	260.00
	6 1/8 Junk mill ✓	185/EA.	1157.00
	3 EA. X-OVER SUBS	25./12.	75.00
	7 3/8" Bit	300.00/JOB	300.00
		SUB TOTAL	$3037.00
Homco Int.:	7 3/8" SHOE	150./EA.	1126.00
	7 3/8" W/O PIPE	2.90 5.80 /ft.	174.00
	7 3/8" DRIVE SUB	220./110.	220.00
	6" DRILL COLLAR	58./29	58.00
	6 5/8" mill, Junk ✓	185./EA	1226.00
	3½ IF Lifter	25./12.	37.00
		SUB TOTAL	$2841.00
STEVE's oilfield TRUCKING :	4 DELIVERIES	98.00/HR.	800.00
MISC. UNBILLED:	Tools & EQUIP.		500.00
		SUB TOTAL	$1300.00

FINLEY . DRILLING . PULLING . . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49982

Company PETRO RESOURCES INC.
Lease NW LB. Well 8-1
Field LONG BEACH

Date 6-2-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____
Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS LAID OUT RIG MATS - MOVED IN MUD PUMP - M.I.R.U. MAST - S.D. T.M A.M.

Well Went Off Production ____ A.M. P.M. ____ 19____ Well Put On Production ____ A.M. P.M. ____ 19____

	START	STOP	HOURS
HOIST			
MAST #4	2:30 PM	4:30 PM	2
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. LUHEELER	2:30 PM	4:30 PM	2
HELPER A. MEDINA	/	/	/
HELPER JUAN MEDINA			
HELPER E. HARTSOCK - TRAINEE -			
HELPER			

FINLEY . DRILLING . PULLING . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49983

Company PETRO RESOURCES INC.
Lease NWLB Well 8-1
Field LONG BEACH, CAL

Date 6-3-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out Make Size Plunger Mandrel
Pump No. In Make Size Plunger Mandrel

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location
Make of tubing catcher, anchor Size Amount of tubing above catcher
Amount of tubing below catcher

BAILING RECORD

Maker of bailer Size Bailed from to Formation
Fluid Level Top. Perf. Bottom Perf. Zero Point

REMARKS REMOVE WELL HEAD - M/U 7" IMPRESSION BLOCK - JET BAILER - R.I.H. - STACKED OUT @ 551 - P.O.H. - DN. I.B. 1" WIDE MARK ON OUTSIDE OF FACE ON IB - R.I.H. W/OPEN END TBG - STOPPED @ 551' - UNABLE TO WORK PAST 551' P.O.H. - R.I.H. W/ 45° COLLAR - STOPPED @ 551' UNABLE TO GET PASSED 551' - P.O.H. - M/U JET BAILER 4" I.B. & R.I.H. - STACK OUT @ 551' - P.O.H - I.B. INDICATES PARTED OR BAD CSG. @ 551' - M/U 1 JT. 1¼" TBG. ON 2⅞ TBG & R.I.H. - UNABLE TO GET PASSED 551' W/1¼" TBG - P.O.H. - SECURE WELL LAY WATER LINE TO WELL 8-1

Rig & Crew 1503.00

Well Went Off Production A.M. P.M. 19 Well Put On Production A.M. P.M. 19

	START	STOP	HOURS
HOIST			
MAST #4	6:30AM	3:30PM	9HRS
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. WHEELER	6:30AM	3:30 PM	9HRS
HELPER A. MEDINA	"	"	"
HELPER M. MEDINA	"	"	"
HELPER E. HARTSOCK — TRN.	"	"	"
HELPER			

FINLEY . DRILLING . PULLING . . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49984

Company PETRO RESOURCES Inc.
Lease NWLB Well 8-1
Field LONG BEACH, CA.

Date 6-4-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____
Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS MOVE IN POWER SWIVEL & N/UP SAME & HANG BACK IN DERRECK. N/UP HOSES & CROSS-OVER SPOOL to PGSR: SHUT DN. until AM 6-5-92 to RECEIVE WASH OVER PIPE & MISC. C/O & FISHING tools.

$584.50 Rig & Crew
$40.00 Sub Pay

NO Accidents.

Well Went Off Production A.M. P.M. 19 Well Put On Production A.M. P.M. 19

	START	STOP	HOURS
HOIST #4	6:30 AM	10:00 AM	3.5
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. WHEELER	6:30 AM	10:00 AM	3.5
HELPER A. MEDINA	6:30 AM	10:00 AM	3.5
HELPER M. MEDINA	6:30 AM	10:00 AM	3.5
HELPER E. HARTSOCK	6:30 AM	10:00 AM	3.5
HELPER			

FINLEY OILWELL SERVICE INC.
. DRILLING
. PULLING
. . BAILING .

OX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49985

Company PETRO RESOURCES Inc.
Date 6-5-92
Lease NWLB Well 8-1
Work Order No.
Field LONG BEACH CA.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out Make Size Plunger Mandrel
Pump No. In Make Size Plunger Mandrel

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole
DAILY COST ON FISHING TOOLS			$2465.00	APPROX.	

Size of nipples in tubing string and location
Make of tubing catcher, anchor Size Amount of tubing above catcher
BAILING RECORD Amount of tubing below catcher
Maker of bailer Size Bailed from to Formation
Fluid Level Top. Perf. Bottom Perf. Zero Point

REMARKS SERVICE RIG & Components. RIH w/ OPEN-ENDED TBG. & CHANGE OVER to FRESH WATER; CIRC. FLUID. RECEIVE & UNLOAD WASH-OVER & MISC. Tools. PICK UP OTHER W/O TOOLS & MEAS. M/U & RIH w/ 7 3/8" OD T/C FLAT BTM. SHOE. WASH OVER f/ 551.43' KB to 554.43 +/- SHOE ID 6 1/4" INDICATED. APPROX. 1' OF FISH ENTERED FULL GAGE OF SHOE. 20-30,000# STRING WT to PULL FREE BEFORE POH. STRING UP-DN. RT WTS. WERE 10,000#. DISCONTINUED W/O OPER. DUE to LACK OF COLLAR WT. SECURE WELL & SHUT DN. UNTIL AM 6-8-92 ORDERED 2 EA 30' w/ 52#/FT D.C. & CO BORE SHOE & ADD CUTTER SURFACE to INSIDE BORE f/ W/O.

CREW ONLY	6 HRS. @ 117.00	Total	702.00	$1810.00
RIG & CREW	4 HRS @ 167.00	Total	468.00	
SUB PAY		Total	40.00	
POWER SWIVEL & MUD PUMP @ 300.00 EA.		Total	600.00	

NO ACCIDENTS

Well Went Off Production A.M. P.M. 19 Well Put On Production A.M. P.M. 19

	START	STOP	HOURS
HOIST 4	6 AM	4 PM	10
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. WHEELER	6 AM	4 PM	10
HELPER A. MEDINA	6 AM	4 PM	10
HELPER M. MEDINA	6 AM	4 PM	10
HELPER E. HARTSOCK	6 AM	4 PM	10
HELPER			

FINLEY . DRILLING . PULLING . BAILING .
OILWELL SERVICE INC.

...OX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49986

Company Pitco Energy Inc.
Lease NWLB Well 8-1
Field LONG BEACH

Date 6-8-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS See Equipt. N/up & RIH w/ 7" H-90 WASHOVER SHOE, EXTENSION, Top Sub, Spiral mill X 6 1/8" OD TAG w/ 7 3/8" OD w/ 6 1/4" ID w/ T/C on Btm, ID @ 550.35 +/- . DRESS OVER TO 553' TORQUE up P/up to 32,000# STRING WT 13,000# & Pull FREE. Attempt to WORK OVER & GET BACK to 555' UNABLE to GET BELOW 554'. UNABLE to GET TOOLS to Location until AM 6-9-92 SECURE WELL & SHUT DN UNTIL Tomorrow.

Rig & Crew	$918.50	$1558.50 Daily Cost
Sub Pay	40.00	
Power Swivel	300.00	
Mud Pump	300.00	

No Accidents

Well Went Off Production ____ A.M. P.M. ____ 19____ Well Put On Production ____ A.M. P.M. ____ 19____

		START	STOP	HOURS
HOIST	4	6:30 AM	12 PM	5 1/2
MAST				
SAND LINE				
PUMP				
SWIVEL				
PUSHER	R. Wheeler	6:30 AM	12 PM	5 1/2
HELPER	A. MEDINA	6:30 AM	12 PM	5 1/2
HELPER	J. MEDINA	6:30 AM	12 PM	5 1/2
HELPER	G. HARTSOCK	6:30 AM	12 PM	5 1/2
HELPER				

FINLEY OILWELL SERVICE INC.
. DRILLING
. PULLING
. . BAILING .

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49987

Company Petro Resources Inc.
Lease NWLB Well 8-1
Field Long Beach

Date 6-9-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
BAILING RECORD Amount of tubing below catcher ____

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS Su. Equip. Meas. m/u & RIH w/ 7 3/8" OD x 6 5/8" ID Diamond windowed friction shoe. Tag @ 552' +/- & work Dn. to 553' UNABLE to get below 553'. POH & BTM 2 Diamonds Bent out APPROX. 1' +/- OVER BSH w/ outside of shoe showing wear. Dn. W/O & Meas. m/u & RIH w/ 7 5/8 tri cone bit & DRILL 2' getting long STRINGS of WOOD & wood w/ metal scales POH 554' +/- LAY DN BIT & BIT SUB. SECURE WELL & SHUT DOWN to AM 6-10-92

Rig & Crew	$1252.50	
Sub Pay	40.00	$1892.50 total
Power Swivel	300.00	
Mud Pump	300.00	

NO ACC.

Well Went Off Production ____ A.M. P.M. ____ 19 ____ Well Put On Production ____ A.M. P.M. ____ 19 ____

	START	STOP	HOURS
HOIST #4	6 30 Am	2 Pm	7 1/2
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER R. Wheeler	6 30 Am	2 Pm	7 1/2
HELPER A. Medina	6 30 Am	2 Pm	7 1/
HELPER E. Hardsoch	6 30 Am	2 Pm	7 1
HELPER J. Medina	6 30 Am	10 Am	3 1
HELPER M. Medina	10 00 Am	2 Pm	4

FINLEY OILWELL SERVICE INC.
. DRILLING
. PULLING
. . BAILING .

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49988

Company Petro Resources Inc.
Lease N.W LB Well 8-1
Field Long Beach,

Date 6-10-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
Amount of tubing below catcher ____

BAILING RECORD

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS ✓ Equip. meet stinger truck @ 6:30am & P/U w/ Same 35' BHA RIH w/ Piloted Cone buster mill Tag @ 554' mill to 556' POH: mea. m/u & RIH w/ 7 3/8 Shoe & RIH & Reverse clean @ 556': Re Run Piloted Cone Buster & See 2 3/4" x 7/8" Wear Pattern on Pilot. Re Run Shoe & mill to get Pattern. POH & See circle wear Pattern. POH. RIH w/ 7" Impression Block: No show (Restricted). RIH w/ 6 3/4" Junk mill on 6" Drill collar Tag @ 556' & mill to 557' POH to ✓ wear Pattern. Indicates 6-6 1/4" OD metal tube w/ Smaller circular OD inside same. Ran 2 5/16" stinger & stop @ 557' Secure well Shut Dn. until Am 6-11-92

Rig & Crew	1837.00	@ 167.00/hr.	2477.00 Total
Power Swivel & Mud Pump	$600.00	@ 300.00/day ea.	
Sub Pay	40.00	@ per day rate	
	No Acc.		

Well Went Off Production ____ A.M. P.M. ____ 19__ Well Put On Production ____ A.M. P.M. ____ 19__

	START	STOP	HOURS
HOIST 4	6 Am	5 Pm	11
MAST			
SAND LINE			
PUMP			
SWIVEL			
PUSHER J. Wheeler	6 Am	5 Pm	11
HELPER A. Medina	6 Am	5 Pm	11
HELPER M. Medina	6 Am	5 Pm	11
HELPER E. Hardrock	6 Am	5 Pm	11
HELPER			

FINLEY . DRILLING . PULLING . BAILING .
OILWELL SERVICE INC.

P.O. BOX 92527 LONG BEACH, CA 90809
PHONE 595-4505

Service Report
JOB № 49989

Company PETRO RESOURCES INC.
Lease N.W.L.B. Well 8-1
Field LONG BEACH

Date 6-11-92
Work Order No.

ROD RECORD

Size	No. Rods Pulled	No. Rods Run	No. Subs Pulled	No. Subs Run	Length

PUMP RECORD

Pump No. Out ____ Make ____ Size ____ Plunger ____ Mandrel ____
Pump No. In ____ Make ____ Size ____ Plunger ____ Mandrel ____

TUBING RECORD

Size	No. Joints Out	Feet	No. Joints Run	Depth of Shoe	Total Feet in Hole

Size of nipples in tubing string and location ____
Make of tubing catcher, anchor ____ Size ____ Amount of tubing above catcher ____
Amount of tubing below catcher ____

BAILING RECORD

Maker of bailer ____ Size ____ Bailed from ____ to ____ Formation ____
Fluid Level ____ Top. Perf. ____ Bottom Perf. ____ Zero Point ____

REMARKS ✓ EQUIP. AIR COMPRESSOR LEAKING. FILL & SEE NOTIFY MECH. SERVICES. MEAS. M/U & RIH W/ 5 3/8" OD IMPRESSION BLOCK. TAG @ 557'. SET BLOCK WT. ON SAME & SURE PICTURE. POH. & SHOW OF METAL CUTTINGS SETTLED ON OBSTRUCTION. RIH W/ 4 3/8" OD MAGNET. RECOVERED 3# COFFEE CAN FULL OF METAL FRAGMENTS LACED W/ STRINGS OF WOOD. DR. MAGNET. RIH W/ 5 3/8" RE-RUN IB: METAL OBJECT IN MIDDLE UNDETERMINED CEMENT CONFIGURATION. RIH W/ 4 5/8" MILL & 4 1/4 X 5 3/8" JUNK SUB ABOVE MILL. TAG @ 557' ROTATE W/O TORQUE TO 558' UNABLE TO ESTABLISH TORQUE POH & 4 9/16" OUTSIDE WEAR. 3 1/2" CIRCULATE W/ SOLID 2" CENTER WEAR PATTERN. SECURE WELL & SHUT ON.

RIG & CREW	1085.30	#1725.50 TOTAL
SWIVEL & PUMP	600.00	
SUB PAY	40.00	

NO ACC.

Well Went Off Production ____ A.M. P.M. ____ 19____ Well Put On Production ____ A.M. P.M. ____ 19____

		START	STOP	HOURS
HOIST	4	6:30 AM	1 PM	6 1/2
MAST				
SAND LINE				
PUMP				
SWIVEL				
PUSHER	L. WHEELER	6:30 AM	1 PM	6 1/2
HELPER	A. MEDINA	6:30 AM	1 PM	6 1/2
HELPER	M. MEDINA	6:30 AM	1 PM	6 1/2
HELPER	G. HARDSOCK	6:30 AM	1 PM	6 1/2
HELPER				

FORM OGD156 (5-80)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county	District
Long Beach	1
Former owner	**Date**
Sun Exploration & Production Co.	June 15, 1983

Name and location of well(s)

Sec. 13-4S-13W S.B.B.&M.

NWLBU 5-1 (037-09795)	NWLBU 8-1 (037-09792)	NWLBU 9-3 (037-09791)
NWLBU 5-2 (037-00397)	NWLBU 8-2 (037-09793)	NWLBU 9-4 (037-00392)
NWLBU 5-3 (037-09796)	NWLBU 8-3 (037-06496)	NWLBU 9-5 (037-00142)
NWLBU 5-4 (037-09797)	NWLBU 8-4 (037-06415)	NWLBU 9-6 (037-00393)
NWLBU 6-1 (037-09788)	NWLBU 8-7 (037-22512)	
NWLBU 6-2 (037-09789)	NWLBU 9-2 (037-13525)	

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange	New owner	Type of organization
May 1, 1983	Petro Resources, Inc.	Corp.
	Address: 4200 Easton Drive, Suite 16, Bakersfield, CA 94309	Telephone No. 805/323-4118

Reported by
Letter from Sun Exploration & Production Co. dated 5-16-83.

Confirmed by
Letter form Petro Resources, Inc., dated 5-18-83.

New operator new status (status abbreviation)	Request designation of agent
PA	Joe D. Rose, same address.
Old operator new status (status abbreviation)	**Remarks**
PA	

Deputy Supervisor	Signature
V. F. Gaede	Richard L. Manuel

OPERATOR STATUS ABBREVIATIONS

PA – Producing Active
NPA – No Potential, Active
PI – Potential Inactive
NPI – No Potential, Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121	CP	7-7-83	Map and book	137	7/12/83
Form ODG140	NONE		Notice to be cancelled		
New well cards	CP	7-7-83	Bond status		
Well records	CP	7-7-83	EDP files Update		
Electric logs	CP	7-7-83	Conservation Committee		
Production reports			L. A. Assessors		

Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.

1-1-82, Form 156 dated 1-21-82. See ownership file.

FORM 157

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

Oct. 4, 1979

Mr. L. B. Carroll, Jr., Agent
Sun Oil Co.
23928 Lyons Ave.
Newhall, CA 91321

DEAR SIR:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R 13W, S.B B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

> "* * * The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

Old Designation		API	New Designation
"Oil Operators"	1	037-09792	NWLBU 8-1
" "	2	037-09793	NWLBU 8-2
" "	3	037-06496	NWLBU 8-3
" "	4	037-06415	NWLBU 8-4
"Pool"	1	037-09795	NWLBU 5-1
"	2	037-00397	NWLBU 5-2
"	3	037-09796	NWLBU 5-3
"	4	037-09797	NWLBU 5-4
"Amebco"	1	037-09788	NWLBU 6-1
"	2	037-09789	NWLBU 6-2
"Flood Control"	2	037-13525	NWLBU 9-2
" "	3	037-09791	NWLBU 9-3
" "	4	037-00392	NWLBU 9-4
" "	5	037-00142	NWLBU 9-5
" "	6	037-00393	NWLBU 9-6

M. G. Mefferd
JOHN F. MATTHEWS, JR.
State Oil and Gas Supervisor

RWS:sc

cc: Update Center
EDP
Conservation Committee

By Richard W. Strehl for
Acting Deputy Supervisor
R. A. Ybarra

CORRECTIONS (TYPE AS FOLLOWS) | BY WHOM
FORM 114 | —
" 115 | —
" 121 | sc 11-2-79
" 126 | —
CASING | —
PROPOSED NEW WELL | cc 11-2-79
WELL RECORD | SC 11-2-79
FIELD MAPS 137 | SC 11-2-79
MAP CODE | pmc 11/2/79
pmc 11/2/79

57996-705 11-71 3M ① OSP

Call
Dave Williams
805-259-2440

March 19, 1979

Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well (s):

Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach field, Los Angeles County.

OLD WELL #	OLD DESIGNATION OLD NAME OIL OPERATORS	NEW WELL #	NEW DESIGNATION NEW NAME ~~NLBU~~
1	03709792	8-1	NORTHWEST LONG BEACH UNIT
2	03709793	8-2	" " " " "
3	03706496	8-3	" " " " "
4	03706415	8-4	" " " " "

RS | Dave Williams 9/25/79
OK to use "NWLBU"

Dun Oil Co.
(Name of Operator)

23928 Lyons Ave
(Address)

Newhall, Calif 91321

By [signature]

X 3-9-79 TRS

Form 42 (10/71)

RECEIVED
MAR 29 10 51 AM '79
DIV. OF OIL AND GAS
LONG BEACH, CA.

March 19, 1979

Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well (s):

Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach field,

Los Angeles County.

OLD WELL #	OLD DESIGNATION	OLD NAME POOL	NEW WELL #	NEW DESIGNATION	NEW NAME
1	03709795		5-1	NORTHWEST	LONG BEACH UNIT
2	03700397		5-2	"	" " "
3	03709796		5-3	"	" " "
4	03709797		5-4	"	" " "
1	03709788	AMERCO	6-1	"	" " "
2	03709789		6-2	"	" " "
2	03713525	FLOOD CONTROL	9-2	"	" " "
3	03709791		9-3	"	" " "
4	03700392		9-4	"	" " "
5	03700142		9-5	"	" " "
6	03700393		9-6	"	" " "

Sun Oil Company
(Name of Operator)

23928 Lyons Avenue
(Address)

Newhall, Calif 91321

By Jack Andrews

Form 42 (10/71)

RECEIVED
MAR 29 10 51 AM '79
DIV. OF OIL AND GAS
LONG BEACH, CA.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county: Long Beach	District: 1
Former owner: General Exploration Co.	Date: February 15, 1979

Name and location of well(s)

Sec. 11-4S-13W

"Dominguez" 2-10 (037-11859)

Sec. 13-4S-13W

"Amebco" 1 (037-09788)
"Amebco" 2 (037-09789)
"Flood Control" 2 (037-13525)
"Flood Control" 3 (037-09791)
"Flood Control" 4 (037-00392)
"Flood Control" 5 (037-00142)

Sec. 13-4S-13W

"Flood Control" 6 (037-00393)
"Oil Operators" 1 (037-09792)
"Oil Operators" 2 (037-09793)
"Oil Operators" 3 (037-06496)
"Oil Operators" 4 (037-06415)
"Pool" 1 (037-09795)
"Pool" 2 (037-00397)
"Pool" 3 (037-09796)
"Pool" 4 (037-09797)

Description of the land upon which the well(s) is (are) located

Sec. 14-4S-13W

"Dominguez" 1 (037-11858)

Date of transfer, sale, assignment, conveyance, or exchange: Dec. 1, 1978	New owner: Sun Oil Company Address: 23928 Lyons Avenue, Newhall, CA 91321	Type of organization: Corporation Telephone No.

Reported by: Former operator

Confirmed by: New operator

New operator new status (status abbreviation): PA	Request designation of agent:
Old operator new status (status abbreviation): AB	Remarks:

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor: for M. B. Albright	Signature: Eleanor Rickel

PA – Producing Active
NPA – No Potential Active
PI – Potential Inactive
NPI – No Potential Inactive
Ab – Abandoned or No More Wells

FORM AND RECORD CHECK LIST

Form or record	Initials	Date	Form or record	Initials	Date
Form OGD121			Map and book	PR	2-16-79
Form OGD148			Notice to delinquent		
New well cards			Bond status		
Well records			EDP [illegible]		
Electric logs			ara		
Production reports			cc: EDP Update Conservation Committee Update Center		

OGD156 (12-77-CSR1-2M)

(213) 590-5311

May 21, 1976

Mr. Robert L. Graves
GENERAL EXPLORATION CO.
4021 N. Pacific Place
Long Beach, California 90806

Dear Sir:

On May 20, 1976, Mr. G. W. Stark, our representative met with Bob Grey, your representative, to witness that one support piling was cut 20 feet below ground level. The Division approves of this method of pile removal if the holes are filled with tamped earth.

Sincerely,

ADS

A. D. Stockton
Associate Oil and Gas Engineer

ADS:dr

156

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach — District: 1

Former Owner: Union Oil Co. of California — Date: January 17, 1961

Description of Property: Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961
New Owner: General Exploration Co. of California
Address: 750 Subway Terminal Building, 417 South Hill Street, Los Angeles 13, Calif.

Telephone No.

Type of Organization: Corporation
Reported by: Union Oil Co. of California (Letter of January 6, 1961)
Confirmed by: General Exploration Co. of California (Letter of January 11, 1961)
New Operator New Status: PA, Old Operator New Status: PA
Request designation of agent: No

Remarks:

eb
CC- Mr. E. H. Musser
Prod. Dept.
Conservation Committee

Wm. C. Bailey
Deputy Supervisor

	INITIALS	DATE
Form 121	EB	1-17-61
New Well Cards		
Well Records	EB	1-17-61
Electric Logs		
Production Reports	C Chrd Dept	
Map and Book 130	S.C.	1-18-61
Form 148		
Notice to be cancelled	No JRT	1/18/61

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
NOTE—If Transfer Does Not Change Overall Status Enter "No Change"

(S.W. & N.W. of inter. Concord Pl. & P.E. Ry.)

96785 4-59 4500 SPO

E. H. MUSSER
State Oil and Gas Supervisor

W. C. BAILEY
Deputy

EDMUND G. BROWN
Governor

DEWITT NELSON
Director of Natural Resources

DIVISION OF OIL AND GAS
RECEIVED
JAN 13 1961
INGLEWOOD, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
830 NORTH LA BREA AVENUE
INGLEWOOD 3, CALIFORNIA

January 11, 1961

General Exploration Co. of California
417 South Hill Street
Los Angeles 13, California

Gentlemen

We have been informed that on January 1, 1961, you acquired Union Oil Company of California wells No. "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field.

Please furnish us with the information requested below which may be submitted on the duplicate copy of this letter attached. Please complete the letter, sign and return it to this office as soon as possible.

Yours truly

WM. C. BAILEY
Deputy Supervisor

By J. R. Thomas
J. R. Thomas
Associate Oil & Gas Engineer

eb

1. Effective date you acquired the wells: January 1, 1961.

2. Name and address of the person or company from whom you acquired the wells:
Union Oil Company of California
461 So. Boylston St., Los Angeles 17, California.

3. What are your plans for the wells: Continue producing wells.

4. Brief legal description of the property on which the wells are located:
Portions of Secs. 13 and 14, T. 4 S., R. 13 W., S.B.B. & M. in Long Beach field shown on D.O.G. Map No. 20 as Union Oil Co. of Calif. "Oil Operators" lease.

1-11-61
(Date)

GENERAL EXPLORATION COMPANY
OF CALIFORNIA

By [illegible]
(Signature)

UNION OIL COMPANY OF CALIFORNIA
UNION OIL CENTER
LOS ANGELES 17, CALIFORNIA

DIVISION OF OIL AND GAS
RECEIVED
JAN 10 1961
INGLEWOOD, CALIFORNIA

HAROLD H. STREAM
MANAGER OF LANDS

January 6, 1961

Wm. C. Bailey
Deputy Supervisor
Division of Oil and Gas
830 North La Brea Avenue
Inglewood 3, California

Re: LONG BEACH AREA
Los Angeles County, California
Oil Operators, Inc. Lease

Dear Mr. Bailey:

Pursuant to Article 4, Chapter 1, Division 3 of the Public Resources Code, notice is hereby given that Union Oil Company of California has sold and transferred to General Exploration Co. of California, 750 Subway Terminal Building, Los Angeles 13, California, effective as of 7:00 o'clock a.m., January 1, 1961, the following oil and gas wells:

Section 13, Township 4 South, Range 13 West

Oil Operator #1 (Standing)
Oil Operator #2
Oil Operator #3
Oil Operator #4

Very truly yours,

G. B. Hall
Supervisor of Lease Processing

By W. A. Watson
W. A. Watson

WAW/jb
cc: General Exploration Co. of California
750 Subway Terminal Building
Los Angeles 13, California

Attention: Mr. C. G. Willis, President

STENOGRAPHER

Forms Filed 102

Date Rec'd. 10-3-44

Electric Log /

Location /

Elevation /

ENGINEER

Form Needed none

Map Correction ✓

Form 150b (Date of Release)

At Request of Operator

Because Abandoned

Because Request by Oper.

Remarks O.K. rec for 102 ~~subsequent~~ work report

DCH.

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

SMB 5

DIVISION OF OIL & GAS
RECEIVED
OCT 3 1944
LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Company of California FIELD Long Beach

Well No. Oil Operators #1, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Sept. 8, 1939 _____, was filed.

SIGNED Henry E Winter

Date September 27, 1944

Title Division Engineer
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Casing Record at Beginning of Work:
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf.
C.P. 4475' - Top 161' is Securaloy

Casing Record at End of Work:
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf.
C.P. 4475' - Top 161' is Securaloy

Date 1944	Depth	Effective Depth	Remarks
8-26	4532	Liner 4529	Rigged up to plug and perforate higher.
9-1	4532	Plug 4443	Cleaned out sand from 4497 to 4529'. Dumped 15 sacks of Blue Diamond construction cement in stages to fill from 4529 to 4443'. Location of plug at 4443' witnessed by Division of Oil and Gas.
9-4	4532	Plug 4443	Bailed out 143 barrels of oil and 8 barrels of water to lower fluid level from 525' to 1105'. Note: Apparently the Securaloy or some other part of the liner was letting fluid through, as all of the perforations were plugged.
9-8	4532	Plug 4124	Set 6-5/8" Cavins drillable bridge plug at 4200'. Dumped 8-1/2 sacks of Blue Diamond construction cement in stages to fill from 4200 to 4124'. Bailed out 194 barrels of water to lower fluid level from 830 to 1725'. Slight show of oil. Note: Securaloy liner must be defective since plug in 6-5/8" is only 21' from shoe of 8-5/8" and 6-5/8" has not been perforated.
9-10	4532	Plug 4124	Ran rods and 3-1/2" upset tubing to 2419' overall and put well to pumping.

Production Data

	Hrs.	Gross	Net	Gravity	Cut	Remarks
9-12	24	713	0		100.0	
9-14	24	698	0		100.0	
9-16	18	428	0		100.0	Changed pump.
9-18	24	640	0		100.0	
9-20	24	610	0		100.0	

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-43185

Los Angeles 14, Calif. September 8, 1944.

Mr. W. S. Eggleston,
Los Angeles 14, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "Oil Operators" 1 Sec. 13, T. 4 S, R. 13 W, S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by A. Pfeil, Inspector, representative of the supervisor, on Sept. 1, 1944. There was also present William Falconer, Driller, and Leo Murry, Helper.

Casing Record 13-3/8" cem. 757'; 8-5/8" cem. 4105', W.S.O. 6-5/8" 4024'-4529', c.p. 4475', perf. 4479'-4529'; T.D. 4532', plugged with cement 4529'-4443'.

Junk None

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 4529' to 4443' in the process of plugging.

The inspector arrived at the well at 2:15 p.m. and Mr. Falconer reported:

1. The hole was cleaned out to 4529'.
2. On August 31, 1944, 10 sacks of cement was dumped at 4529'; and on September 1, 1944, an additional 5 sacks was dumped.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 4443' and brought up a sample of set cement.
The test was completed at 3:15 p. m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 4443' ARE APPROVED.

cc - Mr. H. E. Winter
- Long Beach

AP:my

L/R.

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musser Deputy

28381 10-43 15M
STATE PRINTING OFFICE

CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-39843

Los Angeles 14, Calif. July 19, 1944

Mr. W. S. Eggleston
Los Angeles 14, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

121

Dear Sir:

Your proposal to plug & alter casing Well No. "Oil Operators" 1, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated July 15, 1944, received July 18, 1944, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Complete casing record.
Total depth 4532'
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf. C.P. 4475' (Top 161 ft. of liner Securaloy)

Well is non-commercial.

2. June, 1944 Prod. (Date) 82 (Net Oil) 22.1 (Gravity) 99.3 (29 days) (Cut)"

PROPOSAL:

"The proposed work is as follows:

1. Clean out to 4529' and plug with cement to 4455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4250-4270'.
4. If casing test is wet, cement 4-3/4" casing 4020-4300'.
5. Perforate 4250-4270 and test.
6. If wet, plug to 4230' and test plug by Division of Oil and Gas.
7. Perforate 4105 to 4120 and test."

DECISION:

THE PROPOSAL IS APPROVED.

NRMA:OH

cc- P. A. W.
H. E. Winter
Long Beach

S/ma

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Muesser Deputy

Blanket bond No. 99071

FORM 107. 29275 11-43 10M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
JUL 18 1944
LOS ANGELES, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given fifteen days before work begins when possible

Santa Fe Springs, Calif. July 15, 19 44

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling~~, plugging or altering casing at well No. Oil Operators 1
(Cross out unnecessary words)

, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

Total depth 4532'
13-3/8" C 757'
8-5/8" C 4105' O.K.
505' 6-5/8" L 4529', inc. 50' perf. C.P. 4475' (Top 161 ft. of liner Securaloy)

Well is non-commercial.

2. ~~Last produced~~ June, 1944 (Date) Prod. 82 (Net Oil) 22.1 (Gravity) 99.3 (Cut) (29 days)

The proposed work is as follows:

1. Clean out to 4529' and plug with cement to 4455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4250-4270'.
4. If casing test is wet, cement 4-3/4" casing 4020-4300'.
5. Perforate 4250-4270 and test.
6. If wet, plug to 4230' and test plug by Division of Oil and Gas.
7. Perforate 4105 to 4120 and test.

plug + alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket bond #99071		

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Henry C. Winter
Division Engineer.

cc: P. A. W.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 102.

DIVISION OF OIL AND GAS
RECEIVED
SEP 14 1939
LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Co. of Calif. FIELD Long Beach

Well No. Oil Operators #1, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated 11-12-1937 _____, was filed.

SIGNED Henry E Winter

Date 9-8-39 Title Division Engineer
(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

CSG= RECORD AT BEGINNING OF WORK

13-3/8 C 757
8-5/8 C 4105 OK
68-6-5/8 L 4155 inc 47 perf.

CSG. RECORD AT PRESENT

13-3/8 C 757
8-5/8 C 4105 OK
505-6-5/8 L 4529 inc 50 perf.
C P 4475

DATE	DEPTH	EFF=DEPTH	
7-31-39	4155		Rig up to pull liner and deepen. Cut and pulled all of liner. Deepening.
8-10-39	4254		
8-17-39	4532		Deepened to 4532. 505.15 - 6-5/8 landed 4529 (hung on Burns line hanger) inc 49.82 of 120 mesh (12-1-1/2-6) Kobe and cemented thru Baker whirler basket at 4475 with 125 sacks Victor Oil Well cement. Top 160.91 of liner is 6-5/8 Securaloy.
8-21-39	4532		C.O. to 4150. Top of cement 3794. Bailed fluid to 2810. Splice O K by Division of Oil and Gas.
8-22-39	4532		C.O. to 4528. Bailing.
8-25-39	4532		Ran 4433 - 3" tubing and rods. Rigged up pumping unit.
8-26-39			251 gross 184 Net 22.8 26.5% P 13 hr
8-27-39			254 " 248 " 22.0 2.5% P 24 hr
9-1-39			241 " 226 " 22.0 6.1% P 24 hr
9-4-39			235 " 201 " 22.0 14.3% P 24 hr

FORM 101.

DIVISION OF OIL AND GAS
RECEIVED
SEP 14 1939
LOS ANGELES, CALIFORNIA

7

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Union Oil Company of Calif. Field Long Beach

Well No. Oil Operators #1 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
4155	4532	377	Drilled & Cored	(See core record)	
	Quit on shell				

1086 1-38 10M

SMB

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

LONG BEACH FIELD UNION OIL COMPANY OIL OPERATORS LEASE #1 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPT. DIP	ANGLE OF HOLE
8-11-39	1	7-5/8" Elliott	4375	4385	9.8			9.8		Firm to hard medium to coarse gray sand - Dip 16°		
"	2	"	4385	4395	10.1			8.3		Firm to hard medium to coarse gray sand		
						0.1				Irregular inclusion of brown shale		
								1.7		Firm, fine to medium broken gray sand		
						0.1		10.0				
"	3	"	4395	4405	10.1			0.5		Firm, fine dark gray sand		
								9.6		Firm, coarse to medium gray sand		
								10.1				
"	4	"	4405	4415	11.9			3.0		Firm, soft medium gray sand		
								0.8		Firm, fine dark gray slightly argillaceous gray sand		
								5.9		Firm soft medium gray sand		
								2.2		Firm to firm soft, fine dark gray sand		
								11.9				
	5	"	4415	4425	10.6			10.6		Firm soft medium gray sand		
"	6	"	4425	4435	8.0			8.0		Firm soft medium gray sand		
8-12-39	7	7-5/8" Elliott	4435	4445	5.3	0.2				Hard brown shale		
								3.7		Firm soft fine to medium gray sand		
						0.1				Hard brown shale		
								0.1		Medium gray sand		
						0.2				Hard brown shale with streaks of fine gray sand		
								1.0		Soft medium gray sand with inclusion of brown shale 0.3 from top		
						0.5		4.8				
"	8	"	4445	4455	6.0	3.0				Hard fractured brown shale with high angle fracturing. Crushed zones at bottom and 1.4 from top		
						2.3				Hard massive brown shale		
						0.7				Hard broken brown shale		
						6.0						
"	9	"	4455	4465	11.3	11.3				Hard brown shale. Parts at angle of 30-35°		
"	10	"	4465	4475	4.2	4.2				Hard brown shale		

Henry E Winter

708A 1-38 10M

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

LONG BEACH FIELD UNION OIL COMPANY OIL OPERATORS LEASE #1 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPT. DIP	ANGLE OF HOLE
8-12-39	11	7-5/8" Elliott	4475	4485	9.6	4.7	0.1			Hard brown shale, slightly silty in spots.0.3 at top broken. Streaks of fine brown oil sand in bottom 1.6		
							0.1			Firm fine brown oil sand		
						0.5				Hard slightly silty brown shale with partings of fine brown oil sand		
							2.3			Firm to firm soft, fine brown oil sand, grading to medium at bottom. Good odor and dark amber cut		
						0.6				Hard silty brown shale with streaks and partings of fine brown oil sand		
							0.8			Firm soft to soft, medium brown oil sand. Good odor and dark amber cut		
						0.2				Hard brown shale		
							0.3			Firm, fine slightly argillaceous brown oil sand		
						6.0	3.6					
"	12	"	4485	4490	4.7		0.1			Firm fine dark brown oil sand		
						0.1				Hard brown shale		
							0.6			Firm fine brown oil sand. Good odor and dark amber cut		
						0.1				Hard brown shale		
							0.6			Firm soft medium brown oil sand		
						0.2				Hard slightly silty brown shale		
							2.3			Soft fine brown oil sand, mixed with mud		
						0.1				Hard brown shale		
							0.1			Soft fine brown oil sand		
						0.5				Hard brown shale, apparent dip 30°		
						1.0	3.7					
"	13	"	4490	4500	2.7	1.5				Hard broken brown shale, apparent dip 30°		
						1.2				Hard broken brown shale, badly broken in coring and mixed with mud. 0.1 crushed zone at top		
						2.7						
"	14	"	4500	4510	0.0					No recovery		
"	15	"	4510	4515	0.0					No recovery		
8-13-39	16	"	4515	4520	0.0					No recovery		

Henry E Winter

708A 1-38 10M

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

LONG BEACH FIELD UNION OIL COMPANY OIL OPERATORS LEASE #1 WELL

LOCATION ELEVATION

DATE	CORE NO.	DRILLER SIZE & TYPE BARREL	FROM	TO	TOTAL RECRY.	SHALE	OIL SAND	GRAY SAND	SHELL	DESCRIPTION OF CORE	APPT. DIP	ANGLE OF HOLE
8-13-39	17	7-5/8" Elliott	4520	4525	5.8		3.6			Firm medium brown oil sand, grading to coarse pebbly brown oil sand		
							2.2			Firm soft fine brown oil sand, good odor and dark amber cut		
							5.8					
"	18	"	4525	4530	5.7		3.4			Firm soft medium to coarse, slightly pebbly in spots, brown oil sand Good odor and dark amber cut		
							2.3			Firm soft fine grading to medium brown oil sand, good odor and dark amber cut.		
							5.7					
"	19	"	4530	4532	2.9		2.9			Firm soft to soft coarse, slightly pebbly brown oil sand. Fair odor and dark amber cut. Sand does not look too good		
							2.9					
					T.D.	4532	8-13-39					

Henry E Winter

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 5735

DIVISION OF OIL AND GAS

LOS ANGELES

Union Oil Co of Caly Calif. 9/5 1939

Name of Operator

LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4S R. 13W - Long Bel, B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work

Elec log - Oil Operators 1 - 8/13/30

R. D. BUSH, State Oil and Gas Supervisor

AH By E Huguenin Deputy

DUPLICATE

FORM 127. 66837 1-39 3500 TRIP

CALIFORNIA STATE PRINTING OFFICE

FORM 109-D. 60529 7-38 15M.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-36446

Los Angeles, Calif. August 29, 1939

Mr. W. S. Eggleston,
Los Angeles, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 1 Sec. 13, T. 4S., R. 13W., S. B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, Engineer, representative of the supervisor, on August 21, 1939. There was also present H. E. Winter, Engineer, and H. C. Richardson, Foreman.

Casing Record 13-3/8" cem. 757'; 8-5/8" cem. 4105', N.S.O.; 6-5/8" liner 4024'-4529', c. p. 4475', perf. 4479'-4529'. T. D. 4532', plugged with cement 4475'-?

Junk None.

The operations were performed for the purpose of demonstrating that fluid does not have access to the well between the 6-5/8" and 8-5/8" casings,

and the data and conclusions are as follows:

ENGINEER PEIRCE ARRIVED AT THE WELL AT 11:45 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. The 6-5/8" liner landed at 4155' was all recovered.
2. An 8½" rotary hole was drilled from 4105' to 4532'.
3. Mud fluid was circulated 4 hr. before cementing the casing.
4. Electrical core readings showed the following: 4440' - 4480' - shale (J-K).
5. On August 17, 1939, 505' of 6-5/8" casing (top 161' Securaloy, bottom 344' - 26 lb.), including 50' of perforated, was landed at 4529' and was cemented through perforations at 4475' with 125 sacks of Victor cement.
6. Cement was drilled out of the 8-5/8" and 6-5/8" casings from 3794' to 4035', equivalent to 68 sacks, and the casing was cleaned out to 4150'.
7. The fluid was bailed to 2800' at 4:45 p. m., on August 21, 1939.

ENGINEER PEIRCE NOTED THE FOLLOWING:

1. The fluid rose 10' in 7½ hr., equivalent to 1 bbl. per 24 hr.
2. The hole was open to 4200'.

The test was completed at 12:30 a. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT fluid does not have access to the well between the 6-5/8" and 8-5/8" casings.

cc- H. E. Winter
Long Beach
GP:G
CSB

R. D. BUSH
State Oil and Gas Supervisor

By E. Hugenin Deputy

FORM 111
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-34051

Los Angeles, Calif. July 26, 1939.

Mr. W. S. Eggleston,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

121

Dear Sir:

Your proposal to deepen Well No. "OIL OPERATORS" 1, Section 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated July 24, 1939, received July 26, 1939, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:
4155' deep
13-3/8" C 757'
8-5/8" C 4105' O.K.
68' 6-5/8" L 4155', inc. 47' perf.
June, 1939 production 1034 oil, 16,287 water - 30 days."

PROPOSAL:

"The proposed work is as follows:
1. Pull 6-5/8" liner.
2. Deepen to approximately 4535'.
3. Land 6-5/8" liner, including 110' perforated, at 4535' and cement through perforations at approximately 4425'."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test after drilling out the cement to within 50' of the cementing point to demonstrate that no fluid has access to the well between the 6-5/8" and 8-5/8" casings.

cc- H. E. Winter
Long Beach
WJC:OH

CLB

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy