

DIVISION OF OIL AND GAS
RECEIVED
JUL 26 1939
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 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 or altering casing in~~ 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	Meters	Cross-sections	Cards	Forms	
				114	115
				✓	✓

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

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. 45

R. 13 W - Long Beach B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work

See log - "Oil Operators, Inc" 1 - 11/1/37

R. D. BUSH, State Oil and Gas Supervisor

DUPLICATE

By [Signature] Deputy

DIRECTOR OF NATURAL GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

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

GASING RECORD AT START OF WORK.

GASING 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.	114	131
Total depth 4155'		

DEPTH EFF. DEPTH REMARKS

DATE	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 757'. 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 4106', 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 (10-2-6-) Kobe perforated on bottom.
10-23	"	Landed 3" Upset tubing at 4077'. Installed Xmas tree. Swabbed fluid to 2000'. Well started flowing by heads. C# 225#.

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1937
LOS ANGELES, CALIFORNIA

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. Winters

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	Out	Hrs.	CP.
10-24	376	363	23.9	1.8	P 24	326
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	"	

SUBMIT LOG IN DUPLICATE
 FILL THIS BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

UNIVERSITY OF CALIFORNIA GAS
 RECEIVED
 NOV 17 1937
 LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
 DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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 655 S'y along the prolongation of the center line of the W'y portion of San Antonio Drive, from the center line of Del Mar Avenue thence 100' N.W'y 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 Henny 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 _____
 GEOLOGICAL MARKERS DEPTH
Top of Wilbur shale 3647
Top Alamitos shale 3874

Top brown sand.		Fossils	
Section	Cards	214	121

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 1/2
Production after 30 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	gals	C	17"	350	
8-5/8	4105	"	36 1/2	"	"	C & D	12 1/2	400	
6-5/8	4155	4087	26 1/2	"	"	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)

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator UNION OIL COMPANY OF CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS #1 Sec. 13, T. 4 S, R. 13W, SB B. & M.

FORMATIONS PENETRATED BY WELL

Henry E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
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. ✓

LONG BEACH

UNION OIL

OIL OPERATORS

56.84

Henry E Winter

						Sh.	O.s.	Gy Sd	Shell
			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 shell. Vertical fracture.
				4041				0.7	
				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 have dip of 23° to 28°. Streak of gray sand
						2.9		12.1	

LONG BEACH

UNION OIL

OIL OPERATORS

1

Henry C. Winter

						Gy			
						Shale	O.S.	Sd	shell
1937									
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
						<u>4.0</u>			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.
						<u>18.0</u>	<u>6.3</u>	<u>0.2</u>	

LONG BEACH

UNION OIL

OIL OPERATORS

#1

56.84

Henry E Winter

937									
0-21	7	7-5/8 SOIL	4110	4125	10.4		5.9		
							0.1		soft, loose, fine dark brown oil sand. Good odor and dark amber cut. Core has strong flash test.
								0.3	Hard, grayish brown slightly calcareous bentonitic shale. <u>This shale differs from the others and may be a marker.</u>
							0.1	0.3	Soft, loose, fine dark brown oil sand. 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
							<u>0.2</u>	<u>10.2</u>	
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.
							<u>0.8</u>	<u>12.0</u>	
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.
							<u>0.1</u>	<u>13.4</u>	<u>0.4</u>

629 South Hill Street
Los Angeles, California
November 11, 1937.

Union Oil Company of California,
Union Oil Building,
Los Angeles, Calif.

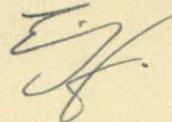
Gentlemen: Attention Mr. W. S. Eggleston

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,



Deputy Supervisor.

Summary Made as Follows	By Whom
Summaries <input checked="" type="checkbox"/> WJC:EMS	EMS
Plan. and Log. Cards	
Production Reports	CC - Mr. R. D. Bush (2)
Well Records	Folders Long Beach
	Reports
Log Models	
Graphics	
Field Maps	Topo 53 538

11/12/37.

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

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, 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. casing was { 10-15-37 cemented } in shale Formation

at 4105 ft. with 400 sacks Victor cement by casing method.

Water string was landed in 12 1/2" rotary 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 oil bailed to xx ft., drilling fluid { bailed } to xx ft. { swabbed }

At " " 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

cc- H. E. Winter
Long Beach

By *E. Hagestad* Deputy

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, 19 37

Mr. Ed Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

"OIL OPERATORS, INC."

Operations at your well No. 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. 15, 19 37. There was also present H. E. Winter, Engineer,

and B. W. Messer, Driller.

Casing Record 13-3/8" cem. 757'. T. D. 4110'. Junk 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 12 1/2" 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. J. Sullivan Deputy

629 South Hill Street
Los Angeles, California
October 8, 1937.

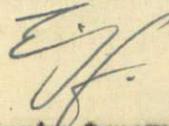
Union Oil Company of California,
Santa Fe Springs, Calif.

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,



Deputy Supervisor.

B:EMS

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

Material	By Whom
Summary Reports	
Log and Log Cards	
Production Reports	
Well Records { Folders	
{ Reports	
Log Models	
Graphics	
Field Maps	

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

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. Tl-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." 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 13-3/8" cem. 757'. T. D. 757'. Junk --

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
cut

R. D. BUSH
State Oil and Gas Supervisor

By E. Augustin Deputy

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, 19 37

Mr. Ed Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

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, 19 37, received Aug. 11, 19 37, 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:

- (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.
- Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.
- 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.
- THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
 - The cementing of the 13-3/8" surface casing.
 - Final mudding operations before cementing the 8-5/8" casing.
 - 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 Deputy

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, 19 37

Mr. E. HUGENIN

Deputy State Oil and Gas Supervisor

Los Angeles, Calif. Cal.

DEAR SIR:

"Oil Operators" 1

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 (Correction letter 11-11-37), Sec. 13, T. 4-S, R. 13-W, S.B. B. & M., Long Beach Oil Field Los Angeles County. *COB*

Lease consists of 555' S-W'ly along the prolongation of the center line of the W'ly portion of
The well is 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 is will be determined later (Approx. 50')
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~~ ~~tools~~ 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.

Reference to file of data

Map	Section	Form
1200 53		
COB	✓	

Wildcat book
8/2/37 COB

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

2100

2200

2300

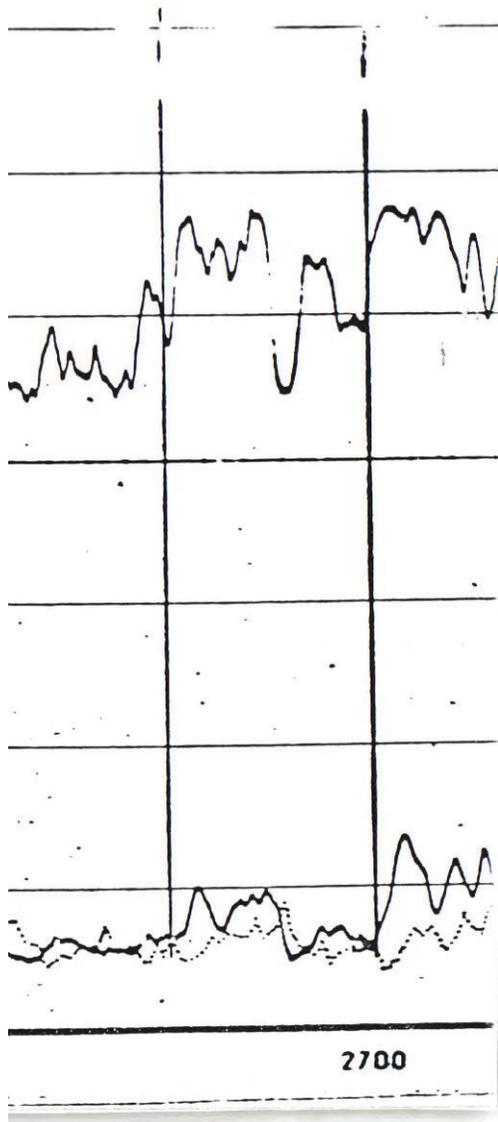
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2500

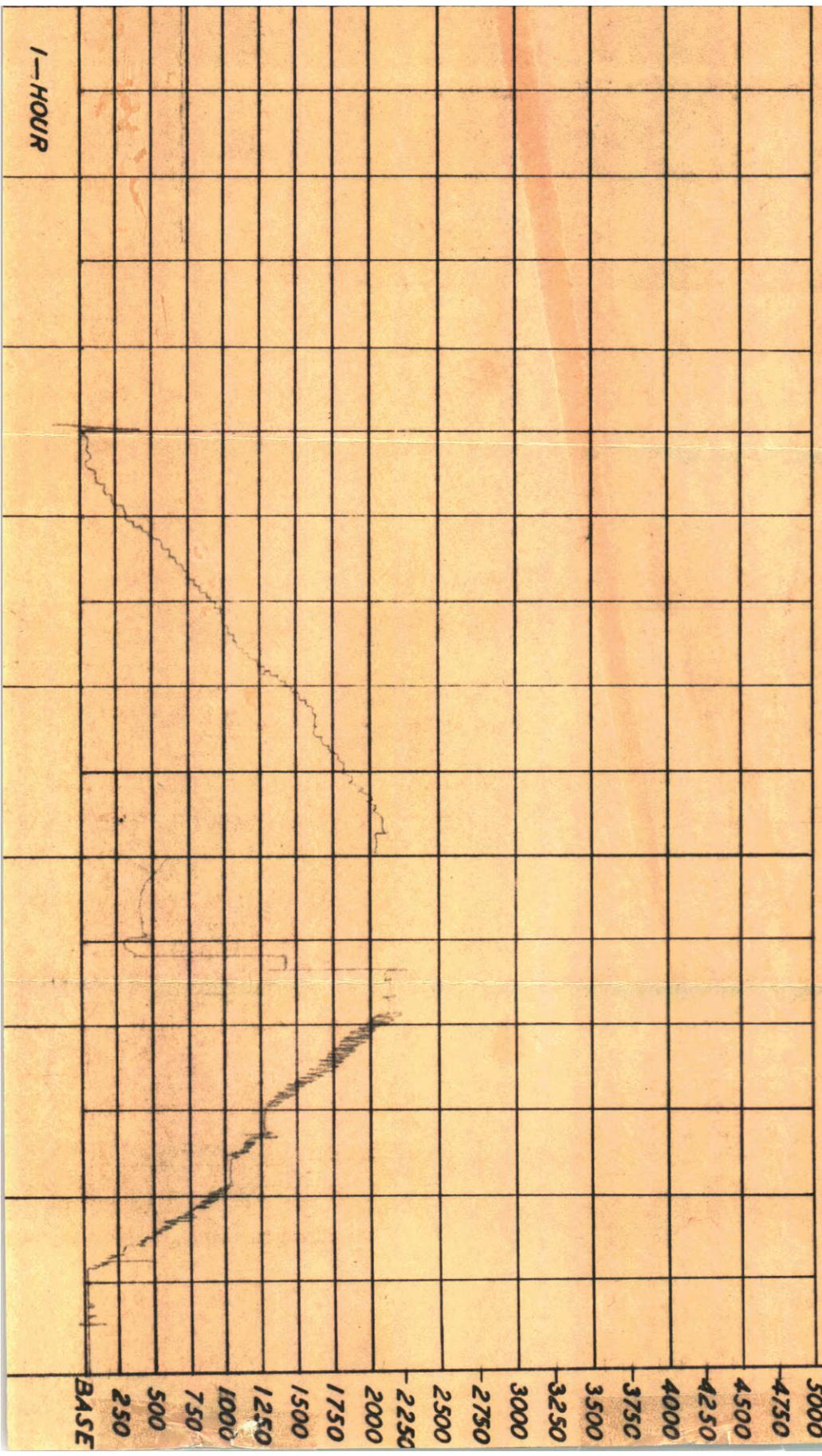
2600

2143
2169
2074





ELD SERVICE CORPORATION.



L.A.

SC

Pacific Energy Resources Ltd.
"Oil Operators" 2
NW LBA 8-2
LONG BEACH
Sec. 13-4S-13W.
operators #2

COM

937

FIELD

LONG BEACH

WELL

ELEVATION :ft.

W. LONG BEACH
Union Oil Co.
Oil Operators #2
RUN No. C-4-373

Casing shoe depth: { Driller 4016 ft. Started run 9:00 a.m.
 Schlumbergerft. Finished run 11:00 a.m.
 Bottom Depth: Driller 4105 ft. Time well occupied by outfit 2 h.
 Max. depth reached by lower elect 4104 ft. Time waiting at well -- h.
 Max. footage measured (p or S. P.) 72 ft. Mileage incurred by run 10 M.
 Footage missed 1 ft. Total time incurred by run 3 h.

MUD CHARACTERISTICS

NATURE : natural VISCOSITY : no sample LEVEL :
 DENSITY : 72 RESISTIVITY : no sample

DIAMETER OF HOLE

7-5/8"

1-275

REMARKS

Device: 20"

Tool	Cards	Perms
		114 181

SCHLUMBERGER ELECTRICAL LOGS

COMPANY : UNION OIL CO. DATE : 12/4/37
 FIELD : W. Long Beach LOCATION :
 WELL : Oil Operators #2 ELEVATION :ft.

W. LONG BEACH
Union Oil Co.
Oil Operator #2
RUN No. C-4-330

Casing shoe depth: { Driller 759 ft. Started run 4:15 p.m.
 Schlumbergerft. Finished run 5:45 p.m.
 Bottom Depth: Driller 4034 ft. Time well occupied by outfit 1 1/2 h.
 Max. depth reached by lower elect 4032 ft. Time waiting at well none h.
 Max. footage measured (p or S. P.) 173 ft. Mileage incurred by run 15 M.
 Footage missed 2 ft. Total time incurred by run 3 h.

MUD CHARACTERISTICS

NATURE : Natural VISCOSITY : 24 LEVEL :
 DENSITY : 75 RESISTIVITY : 3.4

DIAMETER OF HOLE

12 1/4" -- 3965 7-5/8" -- below

REMARKS

Device: 20"

SCHLUMBERGER ELECTRICAL LOGS

COMPANY: UNION OIL CO. DATE: 12/2/37

FIELD: Long Beach LOCATION:

WELL: Oil Operators #2 ELEVATION: ft.

LONG BEACH
Union Oil Co.
Oil Operators #2
RUN No. C-4-393

Casing shoe depth:	} Driller	759 ft. Started run	10:00 p.m.
		Schlumberger	ft. Finished run 12:45 a.m.
Bottom Depth:	Driller	3859 ft. Time well occupied by outfit	2 3/4 h.
Max. depth reached by lower elect		3857 ft. Time waiting at well	none h.
Max. footage measured (p or S. P.)		3098 ft. Mileage incurred by run	15 M.
Footage missed		2 ft. Total time incurred by run	3 1/2 h.

MUD CHARACTERISTICS

NATURE: Natural VISCOSITY: LEVEL:

DENSITY: 75 RESISTIVITY: 6.8

DIAMETER OF HOLE

12 1/4"

REMARKS

Device: 20"

Witnessed By: Mr. Winter

OBSERVERS: F. PEICUSHEK

DEPTH	RESISTIVITY LOG	ohms. m ² m	POROSITY LOG	millivolts
0	15	30	-----	150 Wv.

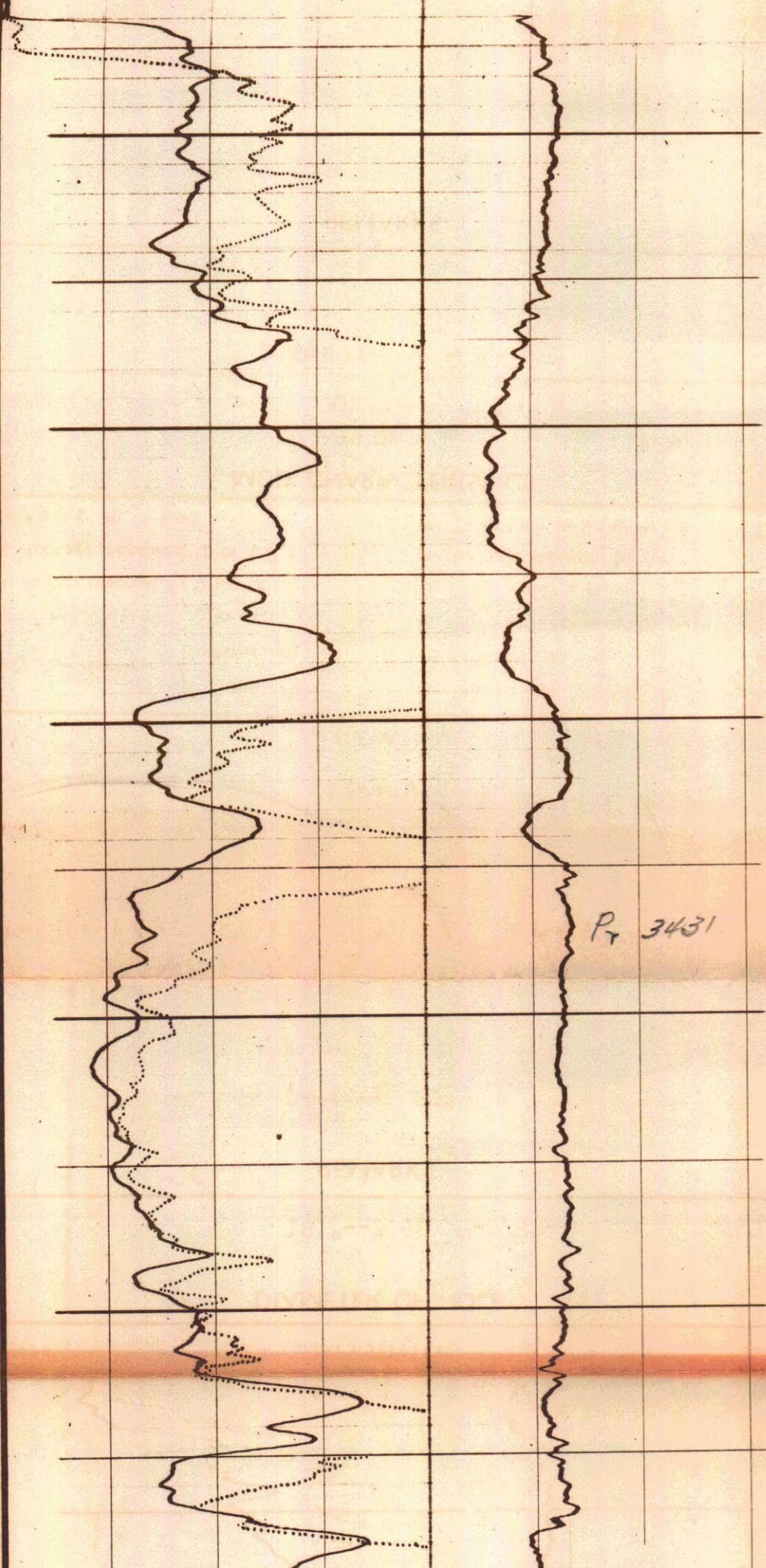
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900

1000

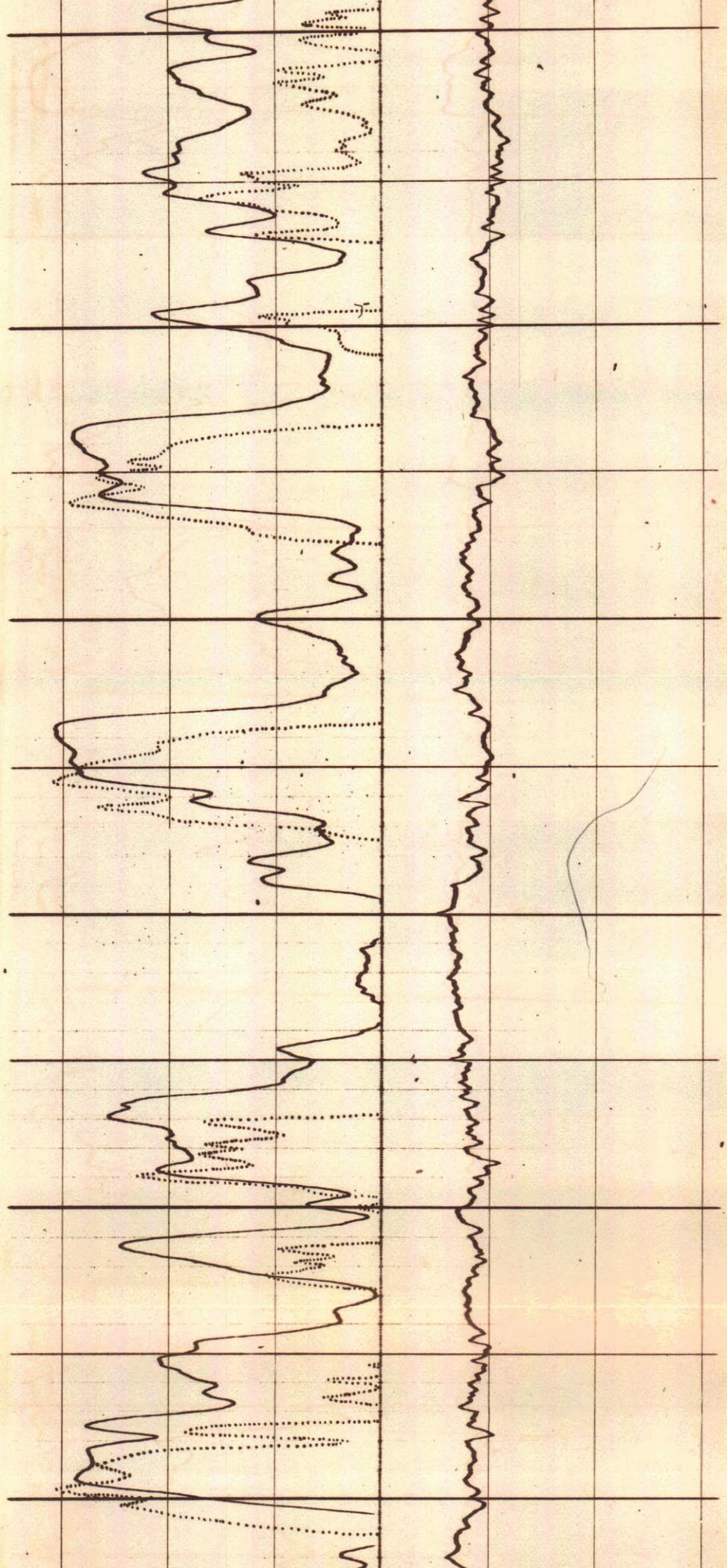
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1200



P_r 3431

1300 1400 1500 1600 1700 1800 .



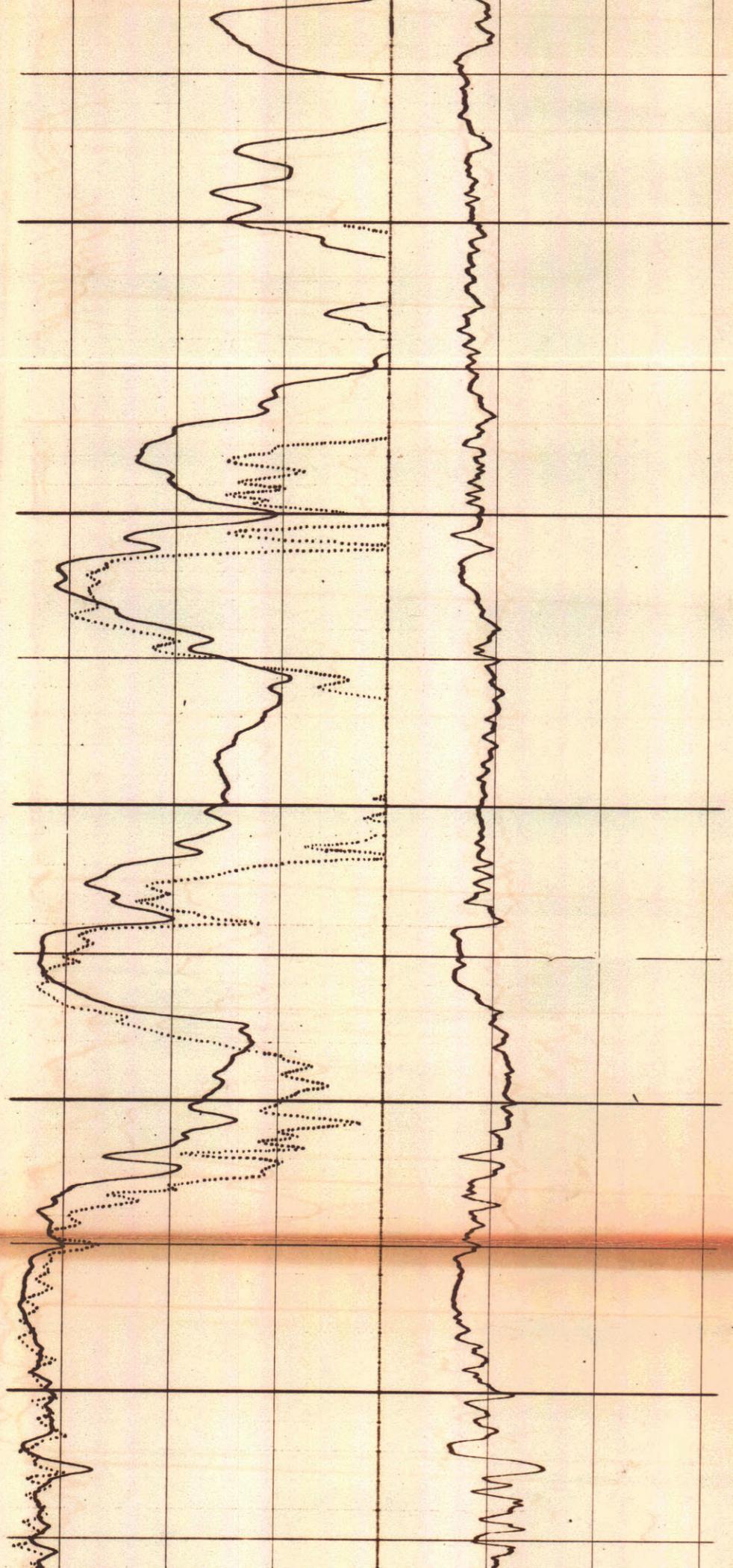
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2000

2100

2200

2300



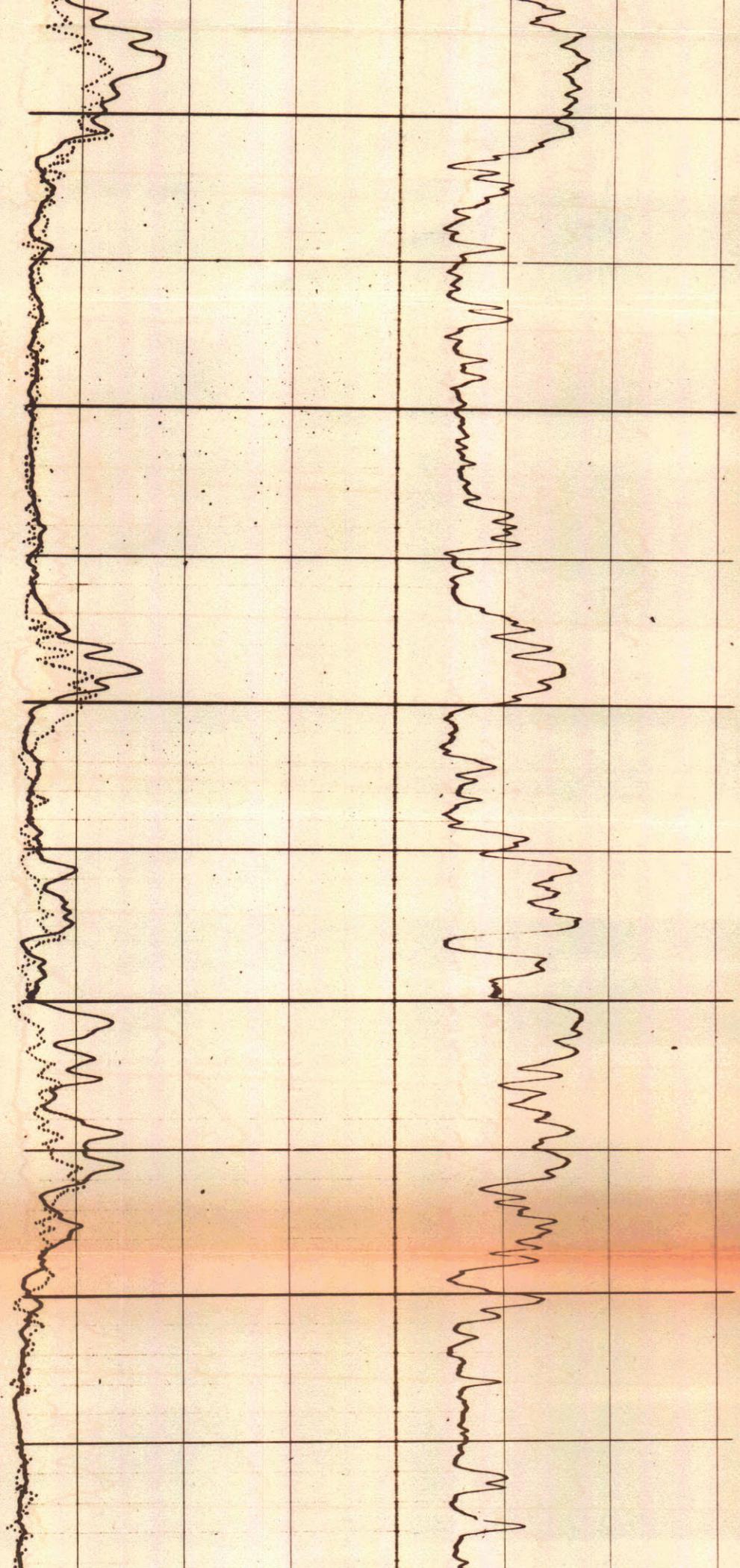
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2500

2600

2700

2800



2900

3000

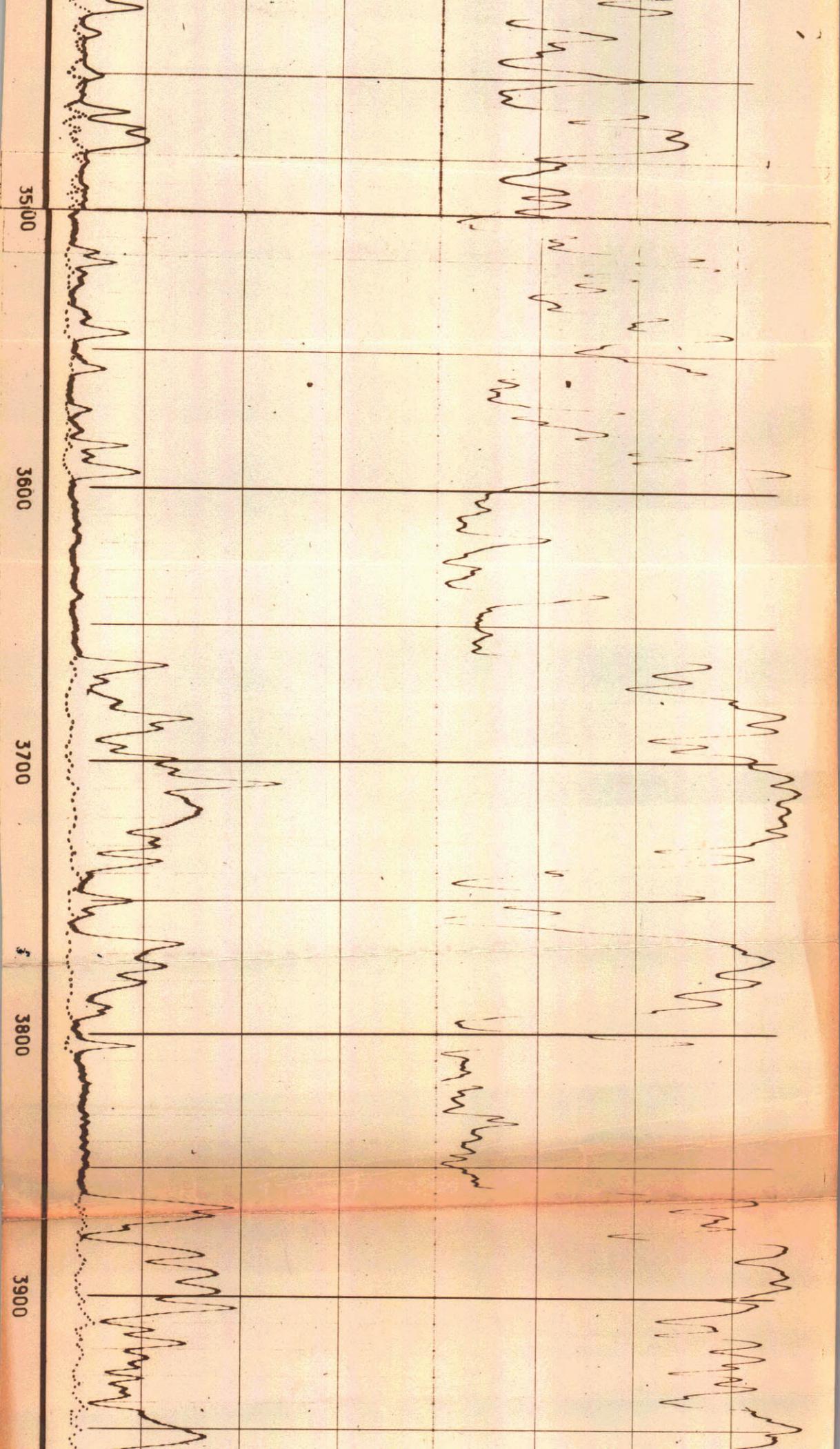
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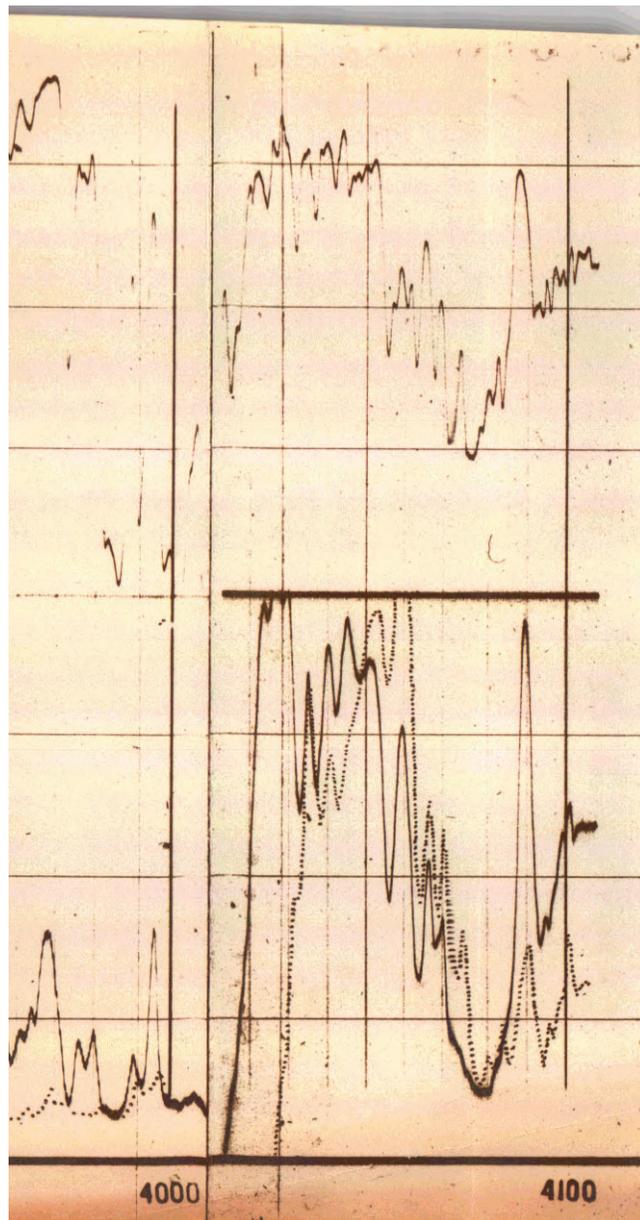
3200

3300

3400







L.A.

1 275

Pacific Energy Resources Ltd.

CO

FIELD

WELL:

SEC.

COUNTY:

ELEV.:

LWLBU 8-2
"Oil Operators" #2
(037-09793)
LONG BEACH

Sec. 13-4S-13W.

Oil Operators #2

RECEIVED
OCT 31 1941

13 T. 4 R. 13W

LOS ANGELES, CALIFORNIA
Los Angeles STATE: Calif.

COMPANY: UNION OIL CO.
OF CALIF.
FIELD: LONG BEACH
WELL: Oil Operators 2
COUNTY: Los Angeles
FILING NO: C-8-134
C-8-147

RUN	1-D	2-D	3	4	5
Date	10-27-41	10-29-41			
Csg. shoe	4016'	4016'			
Total depth	5235'	5480'			
Depth rchd.	5233'	5477'			
Ft. Meas.	1129'	242'			
Mud Nat.	Natural	Chemical			
Dens	76#	79#			
Visc.	40	40			
Res.	5.3 @ 82°F	5.5 @ 87°F			
Max. Temp.	160°F	175°F			
Meas. from	Top Table	Top Table			
Tension	2000#	1800#			
Rig. Time	2 hrs.	1 hr.			
Mileage	10	10			
Observer	V. Fant	W. Dale			
Witnessed by:	Mr. Winter				

DIAMETER OF HOLE

7-5/8"

REMARKS

Standard Device 3rd Curve: -----
Long Device 3rd Curve:

DEPTH	RESISTIVITY		SELF-POTENTIAL	
	NORMAL CURVE	THIRD CURVE	100	millivolts
0	← -ohms m ² m →	30	← →	

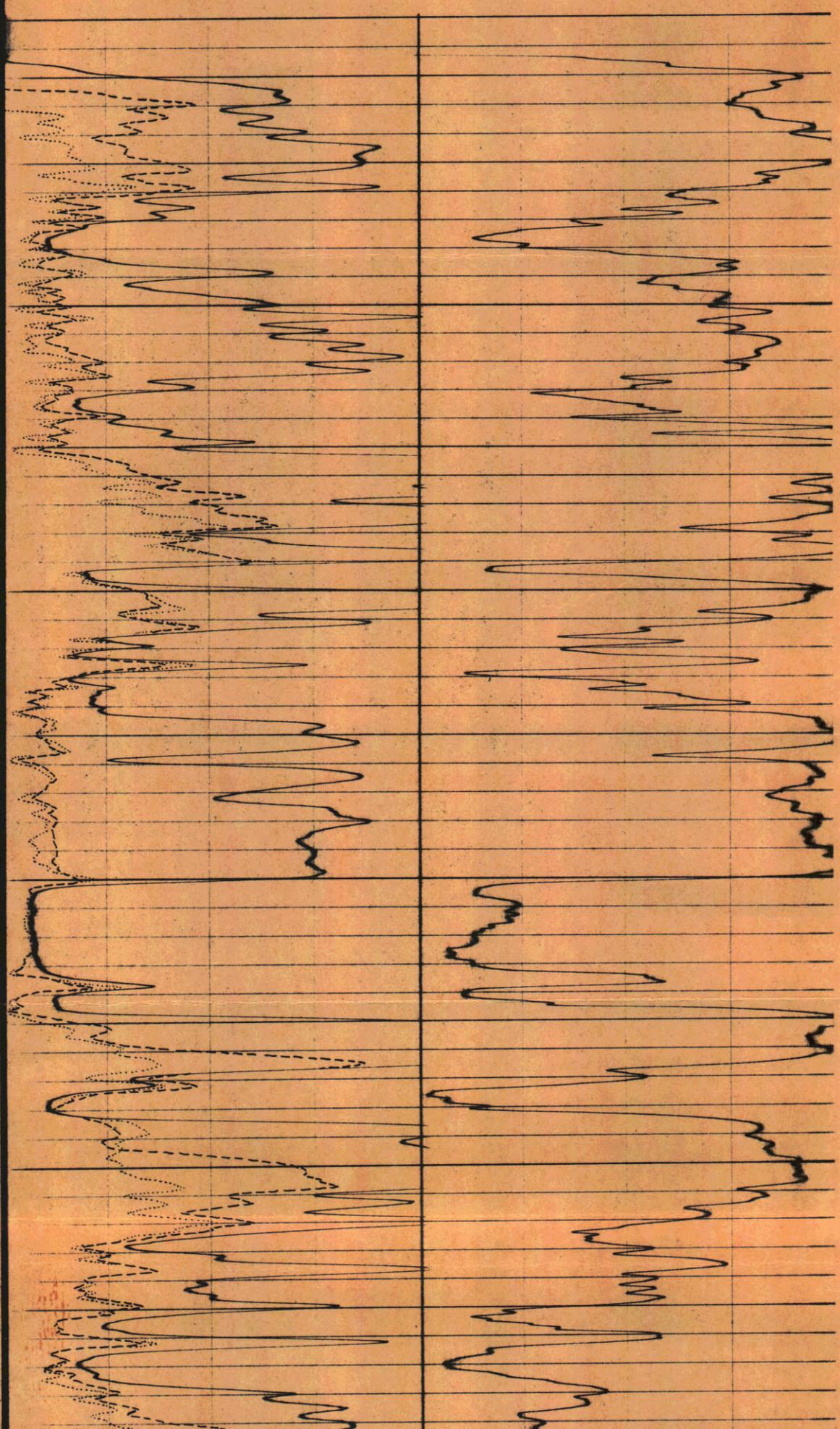
4000

4100

4200

4300

4400



4500

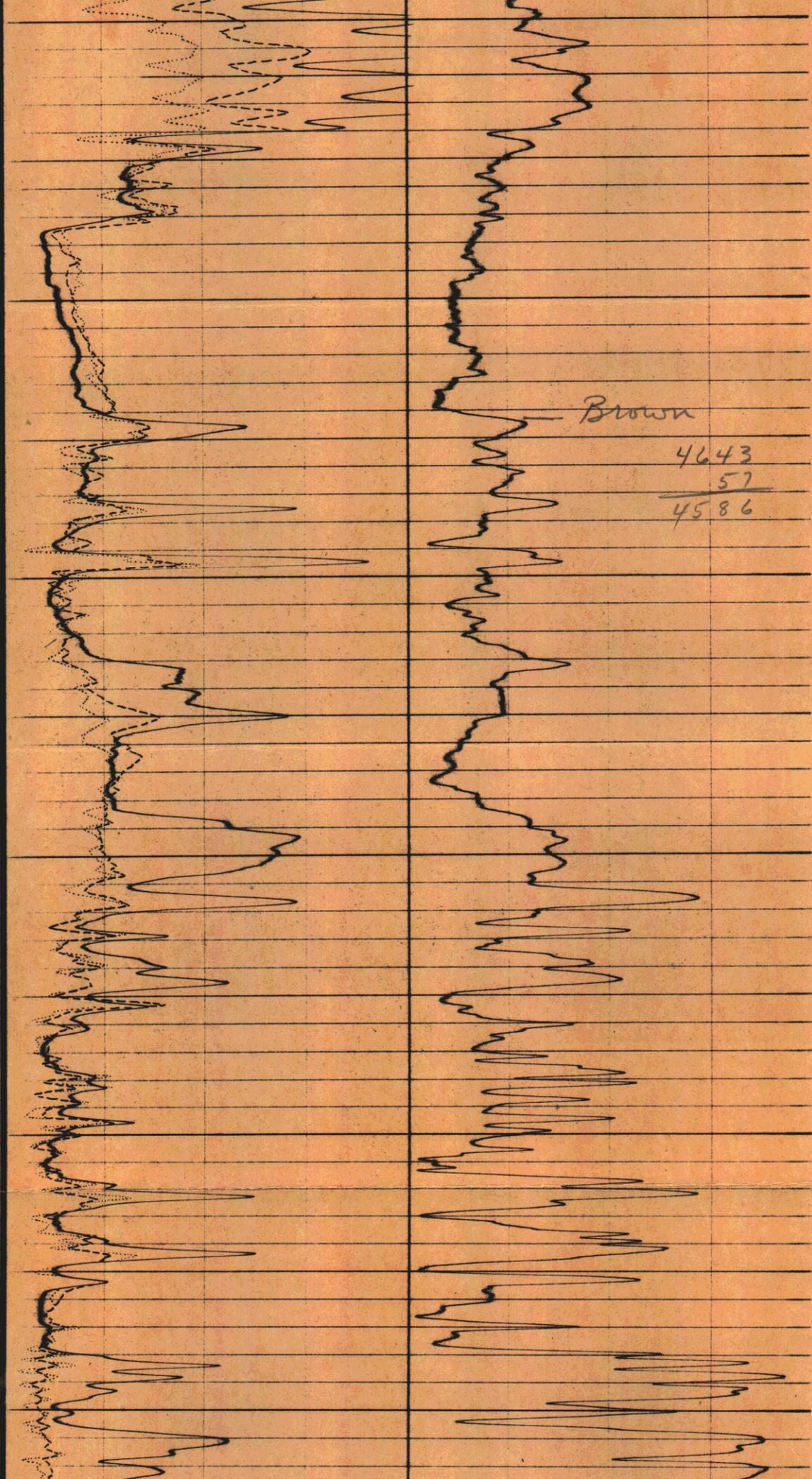
4600

4700

4800

4900

5000



Brown

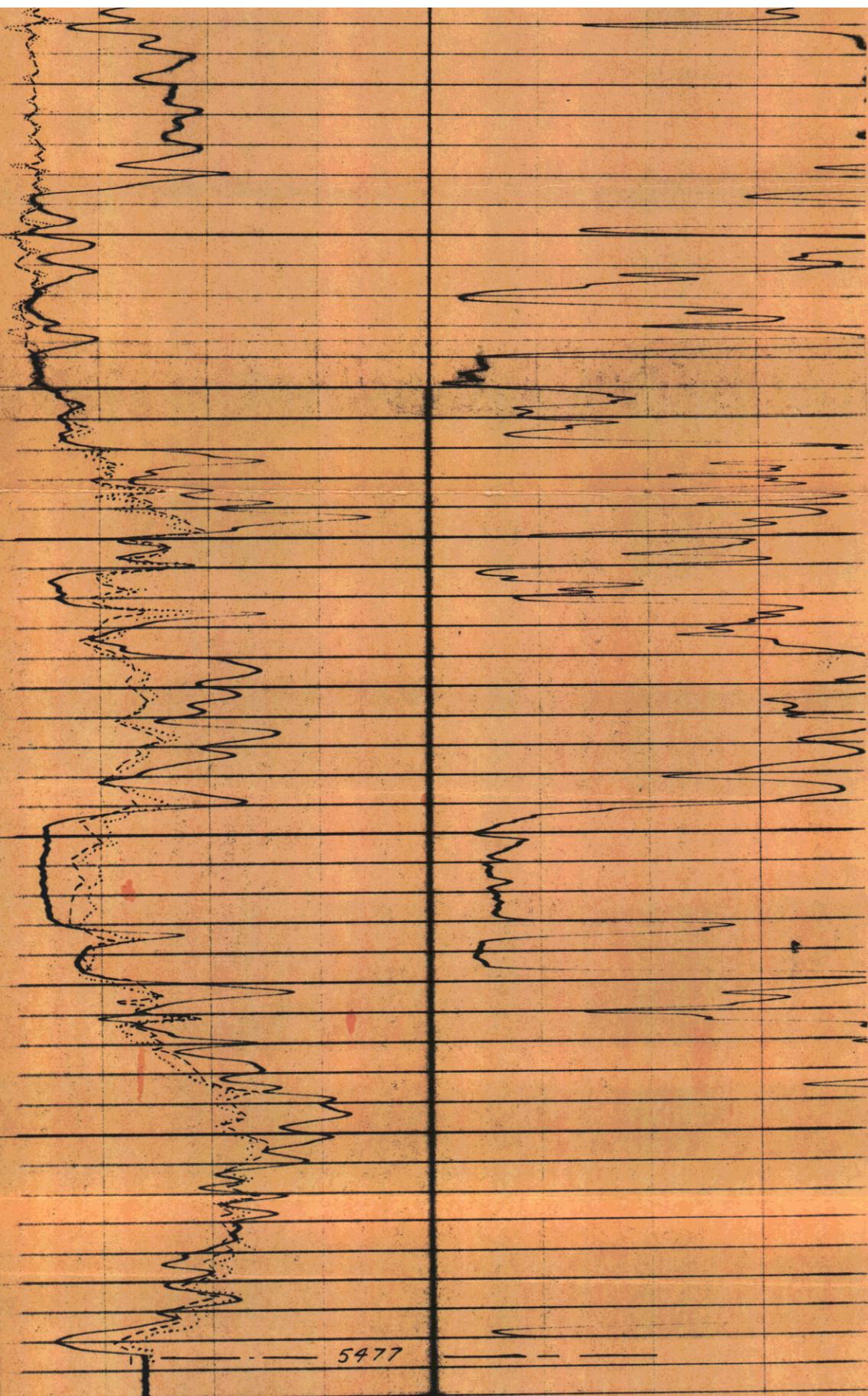
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<u>57</u>
4586

5100

5200

5300

5400

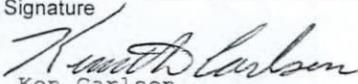


5477

10-29-41
UNION OIL COMPANY
Long Beach
Oil Operators #2

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 Attachment			
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  Ken Carlson Associate Engineer
	FORM AND RECORD CHECK LIST		
PA – Producing Active	Form or record	Initials	Date
NPA – No Potential, Active	Form OGD121	_____	_____
PI – Potential Inactive	Form OGD140	_____	_____
NPI – No Potential, Inactive	New well cards	_____	_____
Ab – Abandoned or No More Wells	Well records	_____	_____
	Electric logs	_____	_____
	Production reports	_____	_____
	Map and book	_____	_____
	Notice to be cancelled	_____	_____
	Bond status	UM	7-11-07
	EDP files	_____	_____
	Computer Files	UM	7-11-07

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

REPORT OF WELL PLUGGING AND ABANDONMENT

Long Beach, California

November 27, 1996

Steve Graner, President
NORTH SIDE OIL CORPORATION
P. O. Box 16007
LONG BEACH CA 90807

Your report of the plugging and abandonment of well **Pacific Energy Resources/NWLBU 8-2, A.P.I. No. 037-09793**, Section 13, T. 4S, R. 13W, S.B. B.& M., **Long Beach Field, Los Angeles County**, dated **November 1996**, received **November 22, 1996**, 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 relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

- NOTES:**
1. Surface plugging completed on **10-21-96**.
 2. Surface inspection made and approved **11-26-96**.

William F. Guerard, Jr.
State Oil and Gas Supervisor

By *R.K. Baker*
For R. K. Baker, *Deputy Supervisor*

DEC:df

NO BOND REQUIRED

cc: Update
L.A. County Assessor
L.A. County Fire Prevention Bureau
Gary Jones, City of Signal Hill
Pacific Energy Resources

OG159

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company North Side Oil Corp Pacific Energy Resource Well No. NW 21 B11 8-2
 API No. 1037-09793 Sec. 13, T. 4S, R. 13W, S.B. B. & M.
 County Boone Field Wilmington

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OG100)	_____
History (Form OG103)	<u>11-22-96</u>
Core Record (Form OG101)	_____
Directional Survey	_____
Sidewall Samples	_____
Other	_____
Date final records received	_____
Electric Logs:	_____
_____	_____
_____	_____
_____	_____
_____	_____

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil _____	Water Disposal _____
Idle - Oil _____	Waterflood _____
Abandoned - Oil <u>✓</u>	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 <u>10-21-96</u>	"E" well Yes ___ No <u>✓</u>
RECOMPLETED _____	
REMARKS _____	

ENGINEERS CHECK LIST

1. Summary, History, & Core Record (dupl.) SM
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. Directional Survey _____
13. Production _____
14. E Well on Prod., enter EDP _____
15. Surface Inspection OK 11-26-96

CLERICAL CHECK LIST

1. Location change _____ (F-OGD165)
2. Elevation change _____ (F-OGD165)
3. Form OGD121 _____
4. Form OGD150b (Release of Bond) _____
5. Duplicate logs to archives _____
6. Notice of Records Due (F-OGD170) _____
7. EDP (F-OGD42A-1,2) ✓
8. District Data Base ✓
9. Update Center _____
10. Form OG159 (Final Letter) 11-27-96

ABANDON OR

RECORDS NOT APPROVED
 Reason: _____

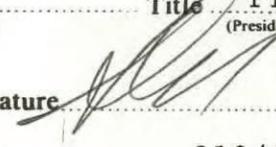
RECORDS APPROVED SM 11/96 - C-
 RELEASE BOND _____
 Date Eligible _____
 (Use date last needed records were received.)
 MAP AND MAP BOOK ✓ 137 MS
11/27/96

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Pacific Energy Resources

Operator NORTH SIDE OIL CORP. Field Wilmington County Los Angeles
Well NWLBU 8-2, Sec. 13, T. 4S, R. 13W, SB. B. & M.
A.P.I. No. 037-09793 Name Steve Graner Title President
Date November, 19 96 (Person submitting report) (President, Secretary or Agent)

Signature 

P O Box 16007, Long Beach, CA 90806

(Address)

310/424-2451

(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	
<u>1996</u>	
10/ 7	MIRU. RIH with 1-1/2" C.T.. Tagged top of lines at 3948'. Tagged fill at 4071'. Bottom of lines at 5065'. POOH. Secured well. MO.
10/14	MIRU. Filled well with water. Pressured casing to 500psi and held for 10 minutes. RIH with 1-1/2" C.T. to 3946'. Unable to go deeper. POOH. Secured well.
10/15	MIRU. RIH with 1-1/2" C.T. to 3946'. Spotted 5 barrels water followed by 181 cf of cement. Estimated TOC at 3417'. POOH. Filled hold with water. Pressured up casing to 500psi and held for 5 minutes. Squeezed 8-1/2 cf away. Estimate TOC at 3442'.
10/16	MIRU. RIH with 1-1/2" C.T. Tagged TOC at 3400'. Mudded hole with 72% mud from 3400' to 2575'. POOH. Rigged up Primo wireline and shot cavity shot at 2575'. RIH with 1-1/2" C.T. to 2575'. Spotted 5 barrels water followed by 152 cf of cement. Estimate top at 2132'. POOH. Filled hole with water. Downsqueezed 11 cf with 550psi and held for 5 minutes. Estimate TOC at 2164'.
10/17	MIRU. RIH with 1-1/2" CT and tagged TOC at 2177'. Mudded hole with 133 barrels of 72% mud from 2177' to surface. POOH. Secured well.
10/19	MIRU. Cut 8-5/8" casing at 70'. MO. MIRU. RIH with 1-1/2" C.T. to 70'. Spotted 5 barrels water followed by 242 cf of cement. Cement to surfact. POOH. Cement top fell. Cement with 97 cf of cement to surface.
10/21	Welded steel plate on casing. Well abandoned.

RECEIVED

NOV 22 1996

DIVISION OF OIL, GAS
& GEOTHERMAL RESOURCES
LONG BEACH



Jm

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

No. T 196-750

REPORT ON OPERATIONS

Long Beach, California
November 22, 1996

Steve Graner, President
NORTH SIDE OIL CORPORATION
P. O. Box 16007
LONG BEACH CA 90807

Your operations at well Pacific Energy Resources/NWLBU 8-2, A.P.I. No. 037-09793, Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County, were witnessed on 10-21-96. Bill Fedasko, representative of the supervisor, was present from 1530 to 1600. There was also present Steve Graner, President.

Present condition of well: 13 3/8" cem 759'; 8 5/8" cem 4016' WSO, cav shot 2575', pulled fr 70'; 5 1/2" cem 3950'-5475', perf 4869' WSO, perf 4018'-4055', 4118'-4228', 4640'-4700', @ int 4835'-4945', 5165'-5245', & 5345'-5395', collapsed 3980' ±. TD 5480'. Plugged w/cem 5475'-5456', 5415'-5065', 3946'-3400', 2575'-2177', 70'-5'.

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 10-14-96.

DEFICIENCIES: None.

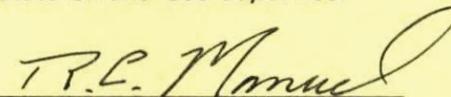
Surface Inspection Approved 11-26-96 

CONTRACTOR: Fleet Cementers, Inc.

DEC:df

cc: Update
Pacific Energy Resources

William F. Guerard, Jr.
State Oil and Gas Supervisor

By 
For R. K. Baker, Deputy Supervisor



nwlBU - 8-2
View: west, 10-21-96
Photo - Bill F. with R. Manuel

9AP.916
11-15

DEL 11/96 2A
-C
196-750

NORTH SIDE OIL CORP.

CEMENTING/PLUGGING MEMO

Operator Pacific Energy Resources Well No. NWLBU 8-2
API No. 037-09793 Sec. 13, T. 4S, R. 13W, S.R. B&M
Field Long Beach, County Los Angeles, On 10-21-96
Mr. / Ms. Rick Fedelesko, representative of the supervisor, was present from 1530 to 1600

There were also present Steve Graner, PRESIDENT

Casing record of well: 13 3/8" cem 759'; 8 5/8" cem 4016' WSO, cov shot 2575'
5 1/2" cem 3950'-5475', plug 4869' WSO, plug 4118'-4228', 4440'-
4700', @ int 4835'-4945', @ int 5105'-5248' & 5345'-5295'

The operations were performed for the purpose of (L)
TD 5480'. Plugged w/ 10cm 5475-5456', 5415-5065, 3946-5
3400, 2575'-2177', 70'-5'

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

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

1, PULLED FR 70'
2, COLLAPSED 3980'±
3, 4018'-4055'

Hole size: _____" fr. _____' to _____', _____' to _____' & _____' to _____'

Casing			Cemented			Top of Fill		Squeezed	Final	Perfs.	
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing	Away	Press.	
8 5/8"	32	0	4016'	10/15/96	SURE 552.	18/cf	form?	3400/3442	8.5	500*	4018'-5475'
5 1/2"	17	3950'		10/16	PORCH 1000/572	152cf	"	2177/2153	19cf/71cf	550	2575'
							* = locked up		tight		

(, 3422) Cov shot 2575'

Casing/tubing recovered: 8 5/8" shot/cut at 70', _____' pulled fr. 70'
5 1/2" shot/cut at _____', _____' pulled fr. _____'

Junk (in hole): _____

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

Mudding	Date	bbls.	Displaced	Poured	Fill	Engr.
pass	10/16/96	51	tbg 3400'		2575'±	Hebein
72 pig	10/17	132	" 2177		54-pipe	R. Navia

NOTE: (5) B-2u 10/14/96 5 1/2" collapsed (?) @ 3950'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
10/15/96	18/cf	tbg 3946'	rptd. L.	Bowen	3400'	2000#	10/16/96 1430	Hebein
10/16	152cf	" 2575	1930	R. Navia	2177'	"	10/17 1200	R. Navia
10/19	239 cf	T70	-	Porch	5'	Visual	10-21-96 1600	B. Fedelesko

S.S. Graner

coiled tubing only in to 3946'

photo 3970' (OKD by D.C.) - conventional rig

001-011

010
01-11

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Fleet America, Inc

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

No. P 196-1138

412

(Field Code)

03

(Area Code)

--

(New Pool Code)

00

(Old Pool Code)

PERMIT TO CONDUCT WELL OPERATIONS

Steve Graner, President
NORTH SIDE OIL CORP.
P. O. Box 16007
Long Beach, CA 90807

Long Beach, California
September 16, 1996

Your proposal to abandon well Pacific Energy Resources/NWLBU 8-2, A.P.I. No. 037-09793, Section 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Northwest Extension area, -- pool, Los Angeles County, dated 9/12/96, received 9/12/96 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 well 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. The well shall be plugged with cement from 3918' to 3850'.
4. The cement plug proposed to be placed to 2410' shall extend to at least 2375' outside and inside the casing.
5. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
6. THIS DIVISION SHALL BE NOTIFIED TO:
 - a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
 - b. Witness the placing, location and hardness of the cement plug from 5065' to 3850'.
 - c. Witness the mudding of the hole.
 - d. Witness the placing, location and hardness of the cement plug from 2575' to 2375'.
 - e. Witness the placing, location and hardness of the cement plug from 70' to 6'.
 - f. Inspect and approve the cleanup of the well site within 60 days after placement of the surface plug.

NOTE:

1. This Division does not pass upon your right to enter the property, but merely approves the proposal as conforming to our requirements.

10/11/96 5" hole branch / Casing - 5 1/2" COUPLERS @ 3980' ±, well down 527

DEC:dc w/ excess cement - OK on

cc: Update
EDP
Gary Jones/Signal Hill
Pacific Energy Resources

NO BOND REQUIRED

Engineer: D. E. Curtis

Phone: 310/590-5311

William F. Guerard, Jr.
State Oil and Gas Supervisor
By T.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.

412
PWS 03 K OG
-
00

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

Notice of Intention to Abandon Well

File in Duplicate

P196-1138

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS	
		OGD114	OGD121
9/13/96	BB	9/13/96	9/13/96

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well (North Side Oil Company 8-2) NWLSU 8-2, API No. 037-09793,
 Sec. 13 T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County,
 commencing work on October 10, 19 96.

The present condition of the well is:

1. Total depth 5480'
2. Complete casing record, including plugs and perforations (present hole)
see over
3. Last produced 8/93 5 0 460
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
 (or)
4. Last injected _____
(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 freshwater sands 2225' 2250

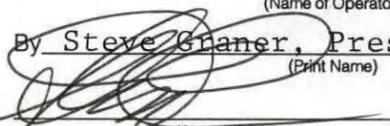
9. Is this a critical well according to the definition on the reverse side of this form? Yes No

The proposed work is as follows:

- a/ MIRU, install and test BOPE
- b/ Cleanout to greatest possible depth 5065'
- c/ Cement from greatest possible depth to 3918' NO 3850'
- d/ Fill hole with 72% mud from TOC to 2450'
- e/ Shoot cavity shot @ 2575' OK
- f/ Cement from 2410'-2575' inside and outside of pipe NO 2375'
- g/ Fill hole with mud from TOC to surface
- h/ Cut and retrieve 8-5/8" casing from 70'
- i/ Cement from 70' to 6'
- j/ Weld plate on casing stub

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address P O Box 16007
(Street)
Long Beach CA 90807
(City) (State) (Zip)
 Telephone Number (310)
(Area Code) (Number)

North Side Oil Corp.
(Name of Operator)
 By Steve Graner, President
(Print Name)

(Signature) 9/12/96
(Date)

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgement or upon written request of an operator. This written request shall contain justification for such an exception.

2. 13-3/8" cmt @ 759'; 8-5/8" cmt @ 4016' (WSO); 5-1/2" cmt @ 5475' top @ 3950'; perf 4869' WSO; perf 4018'-5395'; perfs plugged 5065'-5415' and 5456'-5475'.

RECEIVED

SEP 12 1996

DIVISION OF OIL, GAS
& GEOTHERMAL RESOURCES
LONG BEACH

NORT IDE OIL COMPAI

NWLBU 8-2

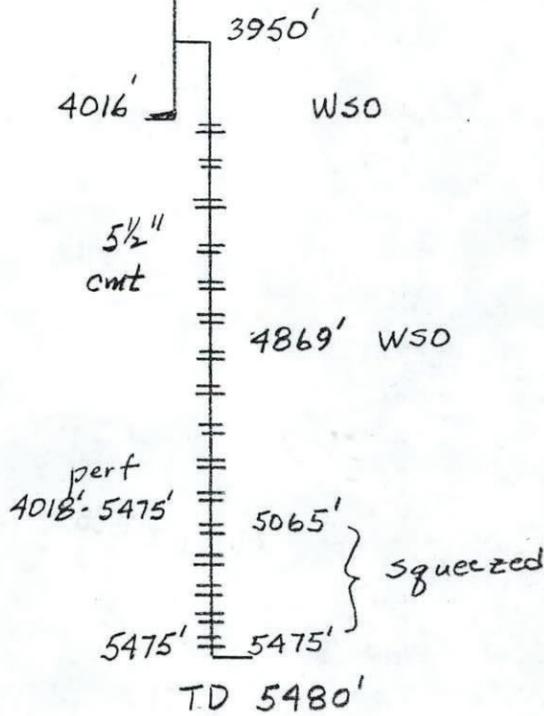
API No. 037-09793

13"
46#C
cmt
350sks
759

8 5/8"
32#36#
cmt
400sks

BFW 2225'

Top of cement-csg- 2911'



RECEIVED

SEP 12 1996

GEOTHERMAL RESOURCES
LONG BEACH

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

DIVISION OF OIL AND GAS

CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Petro Resources, Inc. Well No. NWLBU 8-2
 API No. 037-09793 Sec. 13, T. 4S, R. 13W, S.B. B.&M.
 County Los Angeles Field Long Beach

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OGI00)		Producing - Oil <input checked="" type="checkbox"/>	Water Disposal <input type="checkbox"/>
History (Form OGI03)	<u>3-15-84</u>	Idle - Oil <input type="checkbox"/>	Water Flood <input type="checkbox"/>
Core Record (Form OGI01)		Abandoned - Oil <input type="checkbox"/>	Steam Flood <input type="checkbox"/>
Directional Survey		Drilling - Idle <input type="checkbox"/>	Fire Flood <input type="checkbox"/>
Sidewall Samples		Abandoned - Dry Hole <input type="checkbox"/>	Air Injection <input type="checkbox"/>
Other		Producing - Gas <input type="checkbox"/>	Gas Injection <input type="checkbox"/>
Date final records received		Idle - Gas <input type="checkbox"/>	CO ₂ Injection <input type="checkbox"/>
Electric logs:		Abandoned - Gas <input type="checkbox"/>	LPG Injection <input type="checkbox"/>
		Gas-Open to Oil Zone <input type="checkbox"/>	Observation <input type="checkbox"/>
		Water Flood Source <input type="checkbox"/>	
		DATE	
		RECOMPLETED <u>2/15/84</u>	
		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 OGI59 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

UPDATE CENTER 5/30/84

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED HO 5/9/84

RELEASE BOND

Date Eligible _____
 (Use date last needed records were received.)

MAP AND MAP BOOK NC

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 8-2, Sec. 13, T. 4S, R. 13W, SB. B. & M.
A.P.I. No. 037-09793 Name Joe D. Rose Title Agent
Date March 14, 19 84 (Person submitting report) (President, Secretary or Agent)

Signature 

4200 Easton Dr., Bakersfield, CA 93309 Suite #16 (Address) (805) 323-4118 (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

2/14/84	SD @ 4085. Perf 4018-4055 w/4 jhpf.
2/15/84	Put on production.

RECEIVED
MAR 15 1 3 PM '84
OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS
Report on Operations

Joe D. Rose, Agent

PETRO RESOURCES, INC.

4200 Easton Drive, Suite 16

Bakersfield, CA 94309

Long Beach,

Calif.

March 22, 1984

Your operations at well NWLBU 8-2, API No. 037-09793
Sec. 13, T. 4S, R. 13W, S.B. B. & M. Long Beach Field, in Los Angeles County,
were witnessed on 2-15-84 by G. Muggelberg, Engineer, representative of
the supervisor, was present from 0810 to 0820. There were also present Joe Rose,
Agent

Present condition of well: 13-3/8" cem 761'; 8-5/8" cem 4016' WSO; 5 1/2" cem 3950'-5475',
perf 4869' WSO, perf 4118'-4228', 4640'-4700', @ int 4835'-4945', @ int 5165'-5245'
& 5345'-5395'. TD 5480'. Plugged w/ cem 5456'-5475' & 5415'-5065'.

The operations were performed for the purpose of inspecting the blowout prevention equipment
and installation.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED
Low pressure valve on kill line.

CONTRACTOR: Graner Oil Co.

GM:mh

cc: Update

M. G. MEFFERD
State Oil and Gas Supervisor

R
Deputy Supervisor

V. F. Gaede

1103-181

DEFICIENCIES—TO BE CORRECTED

None

DEFICIENCIES—CORRECTED

① Low pressure valve on kill line

CONTRACTOR

Graner Oil Co.

PERMIT TO CONDUCT WELL OPERATIONS

412
(field code)
03
(area code)
00
(new pool code)
00
(old pool code)

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Drive, Suite 16
Bakersfield, CA 94309

Long Beach, California
February 8, 1984

Your _____ proposal to alter casing in well NWLBU 8-2,
A.P.I. No. 037-09793, Section 13, T. 4S, R. 13W, S.B. B. & M.,
Long Beach field, Northwest Extension area, Alamitos pool,
Los Angeles County, dated --, received 1-31-84 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. Well killing fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
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 INSPECT THE INSTALLED BLOWOUT PREVENTION EQUIPMENT PRIOR TO COMMENCING DOWN-HOLE OPERATIONS.

NOTE: A crew drill may be required at the time of the blowout prevention equipment inspection.

RCM:mh

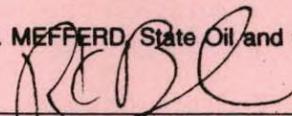
cc: Update

BLANKET BOND

Engineer Richard C. Manuel

Phone (213) 590-5311

M. G. MEPPERD, State Oil and Gas Supervisor

By 
V. F. Gaede, Deputy Supervisor

A copy of this report 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.

0/5

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD114	OGD121
Blanket	2-2-84	2-2-84

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well NWLBU 8-2, API No. 037-09793
(Well designation)
Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 5480
- Complete casing record, including plugs and perforations
8-5/8 @4016. 5-1/2 3950-5475. 13-7/8 @759
 Perf 5165-5205, 5220-5245, 5345-5395 Cmt plug 5415-5065
 Perf 4640-4700, 4835-4845, 4870-4945
 Perf 4118-4228, sand fill @4306 (May, 1967)
- Present producing zone name Alamitos; Zone in which well is to be recompleted Alamitos
- Present zone pressure ± 1200 psi; New zone pressure ± 1200 psi
- Last produced 7/67 16 1000 0
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)
 (or)
 Last injected -not- _____
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure, psig)

The proposed work is as follows:

- Check btm-clean out sand to below 4100.
- Perf 4018-4055
- POP.

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address 4200 Easton Drive #16
(Street)
Bakersfield, Calif. 93309
(City) (State) (Zip)
 Telephone Number (805) 323-4118

Petro Resources, Inc.
(Name of Operator)
 By Joe D. Rose
(Print Name)

(Signature) (Date)

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 Sun Exploration & Production Co.	Date 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 5-2 (037-00397)	NWLBU 8-2 (037-09793)
NWLBU 5-3 (037-09796)	NWLBU 8-3 (037-06496)
NWLBU 5-4 (037-09797)	NWLBU 8-4 (037-06415)
NWLBU 6-1 (037-09788)	NWLBU 8-7 (037-22512)
NWLBU 6-2 (037-09789)	NWLBU 9-2 (037-13525)
NWLBU 9-3 (037-09791)	NWLBU 9-4 (037-00392)
NWLBU 9-5 (037-00142)	NWLBU 9-6 (037-00393)

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

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

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

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

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

Old operator new status (status abbreviation) PA	Remarks
--	---------

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor V. F. Gaede	Signature <i>Richard V. Manuel</i>
--------------------------------------	---	---------------------------------------

OPERATOR STATUS ABBREVIATIONS	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential, Active	Form OGD121	CP	7-7-83	Map and book	137	7/12/83
PI - Potential Inactive	Form OGD140	NONE		Notice to be cancelled		
NPI - No Potential, Inactive	New well cards	CP	7-7-83	Bond status		
Ab - Abandoned or No More Wells	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.

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
p.m.c. 11/1/79

RWS:sc

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

cc: Update Center
EDP
Conservation Committee

By Richard W. Stahl /or
Acting Deputy Supervisor
R. A. Ybarra

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	Sec. 13-4S-13W
"Dominguez" 2-10 (037-11859)	"Flood Control" 6 (037-00393)
Sec. 13-4S-13W	"Oil Operators" 1 (037-09792)
"Amebco" 1 (037-09788)	"Oil Operators" 2 (037-09793)
"Amebco" 2 (037-09789)	"Oil Operators" 3 (037-06496)
"Flood Control" 2 (037-13525)	"Oil Operators" 4 (037-06415)
"Flood Control" 3 (037-09791)	"Pool" 1 (037-09795)
"Flood Control" 4 (037-00392)	"Pool" 2 (037-00397)
"Flood Control" 5 (037-00142)	"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	Type of organization Corporation
	Address 23928 Lyons Avenue Newhall, CA 91321	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 <i>Eleanor Rieker</i>
-------------------------------	--	------------------------------------

PA - Producing Active	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
NPA - No Potential Active	Form OGD121			Map and book	FR	12-16-78
PI - Potential Inactive	Form OGD148			Notice to be posted		
NPI - No Potential Inactive	New well cards			Send status		
Ab - Abandoned or No More Wells	Well records			EDP files		
	Electric logs			ara		
	Production records			cc: EDP Update		
				Conservation Committee		
				Update Center		

(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

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. E. & N.**

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. Kusser
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"	

Form 10

CLERK

RECEIPT FOR

Date Received 11-19-59 Form 100 101 103 10 New Well Records

Elec. Log Radio Log Subsequent Work

Direct. Surv. Other Data History Well Summary
(100)

Location Drillers Log
(101)

 Core Record
(101)

Elevation Clerk Scott History
(103)

Prod. Repts. Clerk Elec. Log

COMPLETED PRODUCING ON 10-27-59 ENGINEER

Other

ABANDONED ON

BOND Blanket Release Date Elig. 150b

End Prem. year Release Requested Superseded

Aband. Redrill

HOLD BOND Reason Deepen

 Plug

Data Needed Alter Csg.

 Final Letter Eng. RC Abandon

Ed

DIVISION OF OIL AND GAS
UNION OIL COMPANY

CASING RECORD

10

Oil Operators #2

WELL NO. _____

Long Beach

History of Oil or Gas Well
REPAIR REPORT

(FIELD)
Los Angeles

Port. Hoist - Contract

See below

(COUNTY)
13 4-S 13-W S.B.

(TOOLS)
October 26, 1959

SEC. _____ T. _____ R. _____ B. & M. _____

(PERIOD ENDING)

DIVISION OF OIL AND GAS
(NOTE INEFFECTIVE CASING)
RECEIVED

NOV 1 9 1959

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS
				<p>CHARGE: LR-AFE 59359, Job 539</p> <p>PROPOSED WORK: Add perforations in the Alamitos ^{INGLEWOOD, CALIFORNIA} Zone.</p> <p>PRODUCTION BEFORE REPAIR: 7 Gross - 6 Net - 21.8° - 12.1%</p> <p>ZERO POINT FOR THIS JOB: 1' above derrick floor.</p> <p>CASING RECORD AT START OF WORK:</p> <p>13-3/8" C 759'</p> <p>8-5/8" C 4016' WSO.</p> <p>114' 6-5/8" H 4105' incl. 90' pfs., pulled.</p> <p>1525' 5-1/2" G 5475'. Splice test OK.</p> <p>Bullet pf & plgd. 5165-5205', 5220-5245', 5345-5395'. Test holes 4869' OK.</p> <p>Bullet pf 4640-4700', 4835-4845', 4870-4945'. Perf & Repl 4915-4945'.</p> <p>CASING RECORD AT COMPLETION OF WORK:</p> <p>13-3/8" C 759'</p> <p>8-5/8" C 4016' WSO</p> <p>114' 6-5/8" H 4105' incl. 90' pfs., pulled.</p> <p>1525' 5-1/2" G 5475'. Splice test OK.</p> <p>Bullet pf & plgd., 5165-5205', 5220-5245', 5345-5395'. Test holes 4869' OK.</p> <p>Bullet pf 4118-4228', 4640-4700', 4835-4845', 4870-4945'.</p> <p>Pf & repl 4915-4945'.</p>
1	10-20	5480	Plug 5065	Contractor moved in and strung up 2 new tubing lines. Pulled rods and pump. Rigged to pull tubing. Could not get twist out of line. Strung 4 lines.
1	10-21	"	"	Pulled tubing. Strung in with 2-5/8" Cavins sand pump and found top of sand fill at 4995'. Ran in 4-1/2" impression block - stopped at 4995'. Tried to break off 8-5/8" production head - unable to do so.
1	10-22	"	"	Ran 8-5/8" washer cup on 2 joints of 2-1/2" tubing. Backed out 8-5/8" production riser. Replaced with new 8-5/8" production riser. Pulled and laid down 2 joints of tubing and 8-5/8" washer. Installed blow-out preventer.
1	10-23	"	"	Gun perforated 5-1/2" casing from 4228-4118' with two 1/2" bullets per foot. Used B-J wire line equipment. Fluid level at start 4450' - at finish 1200'. Very good blow of gas. Had approximately 400' of sand fill from 4900' to 4500'. Cleaned out to 4880' with 2-5/8" Cavins sand pump going through bridge.
	10-24			Crew off.
	10-25			" "
	10-26	"	"	Ran 2-5/8" Cavins sand pump and cleaned out sand from 4720' to 4780'. Laid down excess tubing. Ran tubing. Laid down excess rods. Ran rods and pump. Spaced pump. Loaded out tools. Fluid level at 700'.

NAMES OF DRILLERS/HEAD WELL PULLERS:
Terminal Drilling Co., - Contractor

Vaughn S. Meyer
DISTRICT ENGINEER

DIVISION OF OIL AND GAS
UNION OIL COMPANY

CASING RECORD

WELL NO. Oil Operators #2
Long Beach
(FIELD)
Los Angeles
(COUNTY)
SEC. 13, T. 4-S, R. 13-W.S.B. B. & M.

History of Oil or Gas Well
REPAIR REPORT

Port. Hoist - Contract
(TOOLS)
November 8, 1959
(PERIOD ENDING)

13-3/8" C 759'
8-5/8" C 4016' WSO
Field 11-1 6-5/8" W 1105' line - 901' pf.
1525' 5/8" C 5475' Splice test
OK. Bullet pf & plg 5165-5205',
5220-5245, 5245-5295'. WSO 4869'
Bullet pf 4118-4228, 4670-4700, 4835-
4845', 4870-
(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS	PRODUCTION DATA				Remarks	
					Hrg	Gross	Net	Cut		Grav.
	1959									
1	10-27	5480	Plug 5065	Spooled tubing line off of derrick. Loaded out tools. Contractor moved out.						
	10-27									Mvd in & assembled large pumping unit.
	10-28				16	289	29	90.0		4
	10-29				24	502	15	97.0		4
	10-30				24	579	12	98.0		3
	10-31				24	576	12	98.0		3
	11-1				24	593	12	98.0		3
	11-2				24	583	15	97.0		3
	11-3				24	581	15	97.0		3
	11-4				24	597	24	96.0	22.8	3
	11-5				24	583	17	97.0	22.3	3
	11-6				24	591	18	97.0	22.3	3
	11-7				24	590	18	97.0	22.3	3
	11-8				24	583	23	96.0	22.3	3

DIVISION OF OIL AND GAS
RECEIVED
NOV 19 1959
INGLEWOOD, CALIFORNIA

NAMES OF DRILLERS/HEAD WELL PULLERS:
Terminal Drilling Co. - Contractor

Vaughn S. Mayer
DISTRICT ENGINEER

COMPLETED PRODUCING ON 10-27-59

ABANDONED ON _____

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCESDIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P. 159-886

Mr. C. F. Bowden
P. O. Box 7600
Los Angeles 54, California
Agent for UNION OIL COMPANY OF CALIFORNIAInglewood 3, Calif.
October 21, 1959

DEAR SIR:

Your _____ proposal to alter casing Well No. "Oil Operators" 2,
Section 13, T. 4 S, R. 13 W S B B. & M., Long Beach Field, Los Angeles County,
dated Oct. 19, 1959, received Oct. 20, 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.

5-1/2" cem. 3950'-5475', perf. at intervals 5395'-5165', perf. 4869', W.S.O.,
plugged with cement 5480'-5456', 5417'-5065'.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth. 5480' Plug 5065'
2. Complete casing record.
13-3/8" C 759'
8-5/8" C 4016' WSO
~~11 1/4" 6-5/8" H 4105' - incl. = 90' - pfa., pulled.~~
1525' 5-1/2" C 5475'. Splice test OK.
Bullet pf & plgd 5165-5205', 5220-5245', 5345-5395'.
Test holes 4869' OK
Bullet pf 4640-4700', 4835-4845', 4870-4945'.
Repf. 4915-4945'.

3. Last produced.	Sept. 1959	6 B/D	21.8°	12.1%
	(Date)	(Net Oil)	(Gravity)	(Cut)

PROPOSAL

"The proposed work is as follows:

1. Pull rods and tubing.
2. Check hole open to top of plug at 5065'.
3. Check condition of 5-1/2" liner with impression blocks.
4. Perforate 5-1/2" casing from 4118-4228' with two 1/2" bullets per foot.
5. Check hole open to top of plug at 5065'.
6. Run rods and tubing.
7. Test on production."

DECISION

THE PROPOSAL IS APPROVED.

RC:omh
cc Vaughn S. Moyer

E. H. MUSSER, State Oil and Gas Supervisor

By John C. Baird, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

OCT 20 1959

INGLEWOOD, CALIFORNIA

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.

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 #2
(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. 5480' Plug 5065'
- Complete casing record.
13-3/8" C 759'
8-5/8" C 4016' WSO
~~114-6-5/8" H 4105' incl. 90' pfs., pulled.~~
1525' 5-1/2" C 5475'. Splice test OK.
Bullet pf & plgd 5165-5205', 5220-5245', 5345-5395'.
Test holes 4869' OK
Bullet pf 4640-4700', 4835-4845', 4870-4945'.
Repf. 4915-4945'.

3. Last produced. Sept. 1959 6 B/D 21.8° 12.1%
(Date) (Net Oil) (Gravity) (Cur)

The proposed work is as follows:

- Pull rods and tubing.
- Check hole open to top of plug at 5065'.
- Check condition of 5-1/2" liner with impression blocks.
- Perforate 5-1/2" casing from 4118-4228' with two 1/2" bullets per foot.
- Check hole open to top of plug at 5065'.
- Run rods and tubing.
- Test on production.

MAP	MAP BOOK	CARDS	BOND	FORMS 114 121	Union Oil Company of California
					(Name of Operator)
			<u>Blanket</u>	<u>EB EB</u>	

By V.S. Moyer R.J.H.
Vaughn S. Moyer Division Engr.

STENOGRAPHER

RECEIPT FOR

Date Received 10-21-53 Form 100 101 103

Elec. Log _____ Radio Log _____

Direct. Surv. _____ Other Data History

Location _____

Elevation _____ Steno. PCW

ENGINEER

BOND Blanket Release _____ Date Elig. _____ 150b _____

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

HOLD BOND _____ Reason _____

Data Needed none

Final Letter _____ Eng. JLW 11-3-53

: Well Summary _____

: Drillers Log _____

: Core Record _____

: History (2)

: Elec. Log _____

: Radio Log _____

: Direct. Surv. _____

: Redrill _____

: Deepen _____

: Plug

: Alter Csg.

: Abandon _____

Unsequed OKJLW

OCT 21 1953

DIVISION OF OIL AND GAS
UNION-OIL COMPANY

CASING RECORD
LOS ANGELES, CALIFORNIA

Oil Operators #2
WELL NO. Long Beach
(FIELD) Los Angeles
(COUNTY)
SEC. 13 T. 4-S R. 13-W S.B. B. & M.

History of Oil or Gas Well
REPAIR REPORT

Prod. Hoist - Contract
(TOOLS) September 10, 1953
(PERIOD ENDING)

See below

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS
	1953			CHARGE: B.R.-A.F.E. 51528 Job 240-D
				<u>PROPOSED WORK:</u> Plug with cement to 5100'. Test for WSO at 4869'. Gun perf 4870-4945'. Test on production.
				<u>PRODUCTION BEFORE REPAIR:</u> June, 1953 - 4 B/D Net - 23.8° - 83.0% <u>ZERO POINT for this job:</u> 12" above derrick floor.
				<u>Casing Record at Start of Work:</u> T.D. 4105' Deepen 5480' 13-3/8" C 759' 8-5/8" C 4016' WSO. 11-5/8" H 4205' line 90' pf. Pulled 1525' 5 1/2" C 5475'. Splice test OK Bullet pf 5165-5205', 5220-5245', 5345-5395'.
				<u>Casing Record at Completion of Work:</u> T.D. 5480'. Plug 5065'. 13-3/8" C 759'. 8-5/8" C 4016' WSO. 11-5/8" H 4205' line 90' pf. Pulled 1525' 5 1/2" C 5475'. Splice test OK. Bullet perf & plgd 5165-5205', 5220-5245', 5345-5395'. Test holes 4369' OK. Bullet perf 4640-4700', 4835-4845', 4870-4945'. Repair 4915-4945'.
1	9-2	5480	Plug 5456	CALIFORNIA PRODUCTION SERVICE, Contractor, moved in and rigged up. Pulled rods and tubing.
1	9-3	"	" 5270	<u>CLEAN OUT AND PLUG</u> Bailed with 3-1/8" Cavins sand pump from 5390' to 5415'. Ran 4-3/4" impression block to 5415'. Fluid level at 4060'. Dumped 16 sacks of Blue Diamond construction cement in 4 hours from 5415' to 5270'.
1	9-4	"	" 5065	Found top of cement at 5263'. Fluid level at 3950'. Dumped 18 sacks of Blue Diamond construction cement. Fluid level 3910'. Top of cement at 5065'. Witnessed by Division of Oil and Gas representative - OK.
1	9-5	"	" "	Found fluid level at 3905'.
1	9-8	"	" "	<u>WSO & PERFORATING</u> Ran in with McCullough 3-1/2" o.d., 4 shot gun. Checked fluid level at 3920'. Shot four 1/2" holes at 4869'. Let set four hours (7:15 a.m. to 11:15 a.m.) No fluid rise. Water shut-off witnessed and approved by Division of Oil and Gas representative. Ran in with 3-1/2" o.d., 20 shot gun and perforated 5-1/2" casing with four 1/2" holes per foot from 4945' to 4870'. Fluid level after perforating 3870'.
1	9-9	"	" "	Checked fluid at 3840', fill at 5047'. Cleaned out sand with 3-1/3" Cavins sand pump from 5047' to 5065'. Ran tubing.
1	9-10	"	" "	Ran rods. Put well on production. California Production Service, Contractor, moved out.

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

Vaughn S. Moyer,

DISTRICT ENGINEER

DIVISION OF OIL AND GAS

OCT 21 1953

011 Operators #2

UNION OIL COMPANY of California
History of Oil or Gas Well

CASING RECORD
LOS ANGELES, CALIFORNIA

WELL NO. _____

Long Beach

REPAIR REPORT
Prod. Hoist - Contract

See next page.

(FIELD)
Los Angeles

(COUNTY)
13 4-S 13-W S.B.

(TOOLS)
September 26, 1953

SEC. _____ T. _____ R. _____ B. & M. _____

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS				
				Hours	Gross	Net	Cut	Remarks
	1953	5480	Plug 5065					
								<u>PRODUCTION DATA</u>
	9-10			16	24	0	100.0	
	9-11			24	6	3	50.0	
	9-12			24	6	5	20.0	
	9-13			24	6	5	20.0	
	9-14			24	6	1	80.0	
	9-15			-				Pulled rods & tubing. Ran bailer.
	9-16			15	31	6	80.0	Lowered tubing 61'
	9-17			24	12	4	66.0	Pumped off
	9-18			24	7	1	80.0	
	9-19			24	6	1	30.0	
	9-20			24	6	1	80.0	
	9-21			24	6	5	13.0	
	9-22			24	6	5	13.0	
	9-23			24	5	4	13.0	
1	9-24	"	"					<u>CALIFORNIA PRODUCTION SERVICE, Contractor, moved in and rigged up. Pulled rods and tubing. Found fluid level at 3680', no fill. 4 3/4" impression block went to bottom - 5065'.</u>
1	9-25	"	"					<u>PERFORATING</u> Ran in with 4" o.d., Lane-Wells A-2 gun perforator and checked fluid level at 3750' at 7:45 a.m. Shot four 1/2" holes per foot from 4945' to 4915'. Very light gas blow on 5th run. Fluid level at 3710' at 10:20 a.m. Perforated from 4845' to 4835' with light to medium gas blow. Perforated from 4700' to 4640' with light to moderate blow. Total holes shot - 400. Fluid level 3450' at 1:50 p.m. Net fluid rise 300'. No fill.
1	9-26	"	"					Checked fluid level at 3445', no fill. Ran tubing and rods. Put well on production. <u>California Production Service, Contractor, moved out.</u> <u>Well completed pumping in the Brown Zone.</u>

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

Vaughn S. Moyer,

DISTRICT ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
UNION OIL COMPANY

13-3/8" C CASING RECORD 2 5/8" C 4016'
WSO. ~~224-6-5/8" H-4105'-inc~~
~~90'-pf Pulled. 1525' 5 1/2" C~~
~~5175'. Splice test OK. Bullet~~
~~pf & plgd 5265-5285', 5220-~~
~~5245', 5245-5295'. Test holes~~
~~4869' OK. Bullet pf 4640-4700'.~~

Oil Operators #2
WELL NO. Long Beach
(FIELD) Los Angeles
(COUNTY)
SEC. 13 T. 4-S R. 13-W S.B. B. & M.

History of Oil or Gas Well
REPAIR REPORT
Prod. Hoist - Contract
October 6, 1953
(TOOLS)

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)
~~4835-4845', 4870-4975'.~~
Repf 4915-4945'.

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS
	1953			

5480 Plug 5065

DIVISION OF OIL AND GAS
RECEIVED

OCT 21 1953

LOS ANGELES, CALIFORNIA

PRODUCTION DATA

	Hours	Gross	Net	Cut	Remarks
9-26	17	39	0	100.0	
9-27	24	47	6	87.0	
9-28	24	12	10	15.0	
9-29	24	9	8	12.0	
9-30	24	9	6	3.5	
10-1	24	8	7	8.0	
10-2	24	7	6	8.0	
10-3	24	7	6	8.0	
10-4	24	7	6	8.0	
10-5	24	6	6	2.8	
10-6	24	6	6	3.0	

bg
fs

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

Vaughn S. Moyer,

DISTRICT ENGINEER

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off
(BAILING)

No. T 153-1095

Los Angeles 15 Calif. September 16 1953

Mr. W S EgglestonLos Angeles 17 Calif.Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

Your well No. "Oil Operators" 2, 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 September 8, 19 53. Mr. W C Bradford, Inspector, designated by the supervisor,
 was present as prescribed in Sec. 3222 and 3223, Ch. 93, Stat. 1939; there were also present G Bradford, Hoist Operator
M Barr, Helper

Shut-off data: 5-1/2 in. 15 lb. casing was cemented at 5475 ft. on October 29, 19 41
 in 7-5/8 hole with 275 sacks of cement of which xxx sacks was left in casing.
 Casing record of well: 13-3/8" cem. 759'; 8-5/8" cem. 4016', W.S.O.; 5-1/2" cem. 3950'-
5475', perf. 5395'-5345', 5245'-5220', 5205'-5165', four 1/2" holes 4869', W.S.O.,
 plugged with cement 5480'-5456' and 5417'-5065'
 Reported total depth 5480 ft. ~~Drilled~~ ^{Plugged} with cement from 5417 ft. to 5065 ft. Cleaned out to 5065 ft. for this test.
 Casing test data:

THE INSPECTOR ARRIVED AT THE WELL AT 12:30 P.M. AND MR. BRADFORD REPORTED THE FOLLOWING:

1. The 5-1/2" casing was shot-perforated with four 1/2" holes at 4869'.
2. The fluid level was at 3910' at 7:00 a.m. on September 8, 1953.

THE INSPECTOR NOTED that no fluid entered the well while standing 5-1/2 hr. for test.

The test was completed at 1:30 p.m.

THE 5-1/2" SHUT-OFF AT 4869' IS APPROVED.

WCB:ES

cc Long Beach
Mr C F Bowden

R. D. BUSH, State Oil and Gas Supervisor

By R. M. Halling, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-1094

Los Angeles 15 Calif. September 16 1953

Mr. W S Eggleston
1109 Union Oil Building Calif.
Los Angeles 17
Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

Operations at your well No. "Oil Operators" 2 Sec. 13, T. 4 S, R. 13 W, S B B. & M.,
Long Beach Field, in Los Angeles County, were witnessed by
G C Hazenbush, Inspector, representative of the supervisor,
on September 4, 19 53. There was also present A Fowks, Foreman
W Bradford, Well Puller

Casing Record <u>13-3/8" cem. 759'; 8-5/8" cem. 4016'</u> , <u>W.S.O.; 5-1/2" cem. 3950'-5475', perf. 5395'-5345'</u> , <u>5245'-5220', 5205'-5165'; T.D. 5480', plugged with</u> <u>cement 5480'-5456', 5417'-5065'.</u>	Junk <u>xxx</u>
--	-----------------

The operations were performed for the purpose of testing the location and hardness of a cement
plug placed from 5417' to 5065', in the process of plugging back.

The inspector arrived at the well at 3:00 p.m. and Mr. Fowks reported:

1. The hole could not be cleaned out below 5417' because of a hard sand plug.
2. On September 3 and 4, 1953, 34 sacks of cement was dumped into the hole beginning at 5417'.

THE INSPECTOR NOTED that the bailer could not be spudded below 5065', and brought up a sample of set cement.

The test was completed at 4:00 p.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 5065' ARE APPROVED.

GCH:ES

cc Long Beach

Mr C F Bowden Div Eng
Union Oil Co of California
9645 S Santa Fe Springs Rd
Whittier California

R. D. BUSH
State Oil and Gas Supervisor

By R. H. Walling Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P. 153-1075

Los Angeles 15 Calif. August 25 1953

Mr. W S Eggleston
1109 Union Oil Building
Los Angeles 17 Calif.

121

Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

"Oil Operators"

Your proposal to plug & alter casing Well No. 2

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

dated Aug. 20 1953, received Aug. 21 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 from 5480'-5456'.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth.
4105' Deepen 5480'
2. Complete casing record.
13-3/8" C 759'
8-5/8" C 4016' W.S.O.
~~11 1/2" C 4105' including 90' perforations.~~ Pulled.
1525' 5-1/2" C 5475', splice test O.K.
Bullet perforate 5165-5205, 5220-5245, 5345-5395'.

3. Last produced. June 1953 4 B/D 23.8° 83.0%
(Date) (Net Oil) (Gravity) (Cut)"

PROPOSAL

"The proposed work is as follows:

1. Plug with cement to 5100'.
2. Test for water shut-off at 4869'.
3. Gun perforate interval 4870' to 4945'.
4. Test on production."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS

1. The location and hardness of cement plug at 5100'.
2. A test of the effectiveness of the 5-1/2" shut-off at 4869'.

JLW:OH

cc Long Beach

Records Filed
100
101
102 ✓ 10-21-53 JLW
E. Log

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

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Mussey Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED

DIVISION OF OIL AND GAS

AUG 21 1953

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, CALIFORNIA

Whittier

Calif.

August 20, 1953 19

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 #2
(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.

4105' Deepen 5480'

2. Complete casing record.

13-3/8" C 759'

8-5/8" C 4016' W.S.O.

~~11-6 5/8" H 4105' including 90' perforations. Pulled.~~

1525' 5-1/2" C 5475', splice test O.K.

Bullet perforate 5165-5205, 5220-5245, 5345-5395'

3. Last produced.

June 1953

(Date)

4 B/D

(Net Oil)

23.8°

(Gravity)

83.0%

(Cut)

The proposed work is as follows:

1. Plug with cement to 5100'.
2. Test for water shut-off at 4869'.
3. Gun perforate interval 4870' to 4945'.
4. Test on production.

Plug + alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
			<i>Blanket</i>		

UNION OIL COMPANY OF CALIFORNIA

(Name of Operator)

By

C. F. Bowden

C. F. Bowden, Division Engineer

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
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DEC 10 1941

LOS ANGELES, CALIFORNIA

Subsequent Work Report

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS NO. 2, 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 January 11, 1938

Reference to file of data, was filed. SIGNED *Henry E Winter*
Date December 5, 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.

Date

1941

CASING RECORD AT BEGINNING OF WORK

13-3/8" C 759'
8-5/8" C 4016' O.K.
114' of 6-5/8" L 4105' incl 90' perf.

CASING RECORD AT PRESENT

13-3/8" C 759'
8-5/8" C 4016' O.K.
1525' of 5-1/2" C 5475'
Gun Perforated 5165-5205'
5220-5245'
5345-5395'

<u>DEPTH</u>	<u>EFF. DEPTH</u>	<u>REMARKS</u>
10-6	4105'	Rig up rotary to deepen. Pulled rods and tubing.
10-8	4115'	Cleaned out and deepened with oil circulation through 6-5/8" liner to 4115'. Took hold of liner and jarred out same.
10-10	4120'	Drilled to 4120 and set Eastman removable whipstock.
10-28	5480'	Directionally drilled hole to 5480'. Location at "S" point 463' north and 50' east, loss 31', location at 5480' is 438' north and 40' east, loss 31'.
10-29	5480'	Cemented 1525.19' of new 5-1/2" J-55 15-1/2# Bethlehem seamless casing at 5475', including Burns plain liner hanger at top, 275 sacks of Slow Colton cement, Halliburton Cementing Company.
11-1	5480' Plug 5456'	Found top of cement at 5245'. Cleaned out cement to 5456'. Bailed fluid from surface. Could not lower below 1050'.
11-2	5480' Plug 3945'	Recemented splice with 100 sacks (50 Victor Hi-Temperature and 50 sacks Slow Colton), through drill pipe and Halliburton shoe squeeze tool set at 3911'. Displaced all of cement out of drill pipe. Final pressure 1375#. Cleaned out cement from 3905-3945'.

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

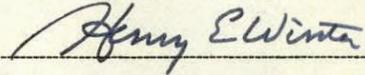
DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH
Well No. OIL OPERATORS NO. 2, Sec. 13, T. 4-S, R. 13-W, SB SB 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 January 11, 1938, was filed.

SIGNED _____


Date December 5, 1941Title 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

1941

<u>DEPTH</u>	<u>EFF. DEPTH</u>	<u>REMARKS</u>
11-4	5480'	Plug 5456' Cleaned to 5456' (cement from 3945-3970'). Bailed fluid to 3000', stood eight hours. Splice test OK by Division of Oil and Gas. No rise.
11-6	5480'	Replaced mud with oil and perforated 5-1/2" casing with Lane-Wells gun, 1/2" holes, as follows 5165-5205', 81 holes 5220-5245', 49 holes 5345-5395', 100 holes
11-7		Ran 5313' 2-1/2" tubing and rods and put on pump. Pumping unit broke after pumping 18 barrels of oil.
11-8		Repairing pumping unit.
11-9		Repairing pumping unit.
11-10		Repairing pumping unit.
11-11		Production - 116 net, 2.5% cut, P 15 hours
11-12		" 88 net, 23.8° gravity, 2.8% cut, P 24 hours
11-22		" 74 net, 25.4° gravity, 4.6% cut, P 24 hours
11-30		" 56 net, 25.4° gravity, 2.4% cut, P 24 hours

November Production - 1,317 barrels in 20 days.

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 CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS NO. 2 Sec. 13, T. 4S, R. 13W, SB B. & M.

FORMATIONS PENETRATED BY WELL

Henry E. Wirth

16
DIVISION OF OIL & GAS
RECEIVED
JAN 20 1942
LOS ANGELES, CALIFORNIA

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
4800	4802				Took 0.8 core of oil stained, medium, coarse gray sand with a basket while fishing for pieces of a disc bit.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-40317

Los Angeles, Calif. November 7, 19 41

Mr. W. S. Aggleston,
Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 2 Sec. 13, T. 4S., R. 13W., S. B. B. & M.,
Long Beach Field, in Los Angeles County, were witnessed by
James T. Carriel, Inspector, representative of the supervisor,
on November 4, 19 41. There was also present A. G. Hilton, Engineer,
and F. Dezarn, Drilling Foreman.

Casing Record <u>13-3/8" cem. 759', 8-5/8" cem. 4016'</u>	Junk <u>None</u>
<u>W. S. O.; 5-1/2" cem. 3950'-5475'. T. D. 5480',</u>	
<u>plugged with cement 5480'-5456'.</u>	

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 6:10 P. M. AND MR. HILTON REPORTED THE FOLLOWING:

1. All of the 6-5/8" casing was pulled out of the hole.
2. A 7-5/8" rotary hole was drilled from 4105' to 5480'.
3. On October 29, 1941, 1525' of 5-1/2" - 15 lb. casing was cemented at 5475' with 275 sacks of Slow Colton cement.
4. The 8-5/8" - 5-1/2" casing splice tested wet.
5. On November 2, 1941, the 8-5/8" - 5-1/2" casing splice was cemented with a Halliburton cementer set at 3911' with 100 sacks of Cement. It was estimated that 84 sacks of cement was forced away under a 1375 lb. final pressure.
6. Cement was drilled out of the 8-5/8" and 5-1/2" casings from 3905' to 3970' (equivalent to 16 sacks) and the casing was cleaned out to 5456'.
7. The fluid in the hole was bailed to 3000' at 10:00 a. m. on November 4, 1941.

THE INSPECTOR NOTED THE FOLLOWING:

1. No fluid entered the well while standing 8 hr. for test.
2. The hole was open to 5456'.

The test was completed at 7:05 p. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT fluid does not have access to the well between the 8-5/8" and 5-1/2" casings.

cc- H. E. Winter

Long Beach
JTC:G

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musser Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-36864

Los Angeles, Calif. September 15, 19 41.

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" 2,
Section 13, T. 4 S., R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County,
dated Sept. 11, 19 41, received Sept. 12, 19 41, 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 4105
- 13-3/8 cmtd. 759
- 8-5/8 cmtd. 4016 O.K.

114- 6-5/8 landed 4105 inc. 90 perforated.

It is desired to deepen to the R S & T Zones

Last Production August, 1941 - 1481 oil - 29224 water - 31 days."

PROPOSAL:

"The proposed work is as follows:

1. Pull 6-5/8 liner
2. Deepen well to 5450
3. Cement blank 5-1/2 liner 5450 to 3950
4. Test splice at 3950 by Division of Oil and Gas
5. Perforate R S & T Zones at intervals
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.
4. The formations to be left back of the 5-1/2" casing shall be mudded in a manner consistent with good drilling practice.
5. This division shall be kept informed of the results of tests, after each stage of perforating, and will designate any additional requirements at that time.

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

R. D. Bush

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Messer Deputy

DIVISION OF OIL & GAS
RECEIVED
SEP 12 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. September 11, 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 #2
(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 4105
13-3/8 cmtd. 759
8-5/8 cmtd. 4016 O.K.
114-6-5/8 landed 4105 inc. 90 perforated

It is desired to deepen to the R S & T Zones
Last Production August, 1941 - 1481 oil - 29224 water - 31 days

The proposed work is as follows:

1. Pull 6-5/8 liner
2. Deepen well to 5450
3. Cement blank 5-1/2 liner 5450 to 3950
4. Test splice at 3950 by Division of Oil and Gas
5. Perforate R S & T Zones at intervals
6. Test on production

Deepen

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

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 2792

DIVISION OF OIL AND GAS
LOS ANGELES

Calif. 1/13 1938

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. 4S

R. 13 W - Long Beach, B. & M., as herewith enumerated by well numbers.

Logs _____

History _____

Core record _____

Subsequent work else by Oil Operators 2 - 12/11/37

R. D. BUSH, State Oil and Gas Supervisor

[Signature] By _____ Deputy

DUPLICATE

DIVISION OF OIL AND GAS
RECEIVED
JAN 14 1938
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS 2, Sec. 13, T. 4-S, R. 13-W, S.D. B. & M.

Signed Henry E Winter

Date Jan. 11, 1938 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:

13-3/8" C 759'
8-5/8" C 4016'
114' 6-5/8" L 4105', Inc 90' perf.

1937	Depth	Remarks
11-13	73	Spudded in and drilled with 17" rotary bit.
11-17	761	Drilled with 17" rotary bits to 761'. Cemented new 13-3/8" 45.97# National seamless slipjoint casing at 759' with 350 sx Monolith Velo cement. Cementing operations witnessed and approved by Stolz, of Division of Oil & Gas.
11-19	1070	Found top of cement at 747'. Cleaned out cement and plugs and drilled ahead with 12-1/4" bits.
12-2	3859	Drilled with 12-1/4" bits to 3859'. Ran Schlumberger Survey.
12-5	4034	Drilled with 12-1/4" bits to 3965' and cored with 7-5/8" core barrels to 4034'. Ran Schlumberger Survey. Reamed out core hole with 12-1/4" bit to 4016'. Cemented 8-5/8" 32# Grade "C" (1963' of 36# Grade "C" on bottom) 8-thread rounded seamless casing at 4016' with 400 sx cement (200 sx Victor oil well and 200 sx Victor construction).
12-10	4075	Found top of cement at 3989. Drilled out cement and plugs to 4016 and cleaned out to 4021. Water shut off test on 8-5/8" casing at 4016 witnessed and approved by Stolz, of Division of Oil & Gas. Drilled and cored to 4075'.
12-12	4105	Cored to 4105. Ran Schlumberger Survey. Landed 114' of 6-5/8" 25# Grade "C" casing at 4105', including 90' of 16-2-6 120-mesh Kobe perforated on bottom. Bailed to 1200' and well started flowing by heads.
12-14	4105	Bailed hole clean of mud and sand. Landed 3" upset tubing at 3649'. Ran rods and installed pumping unit. Put well on pump 5:00 P.M. 12-14-37.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BRACH

Well No. OIL OPERATORS 2, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E. Winter

Date Jan. 11, 1938 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.

PRODUCTION TEST DATA:

1937	<u>Gross</u>	<u>Net</u>	<u>Grav.</u>	<u>Qtz</u>	<u>Status</u>	<u>Bean</u>	<u>T.P.</u>	<u>G.P.</u>	<u>Remarks</u>
12-14	391	203	23.8	48.0	P 10				On pump 5:00 P.M.
12-15	869	854	"	1.7	P 24				
12-16	873	862	"	1.3	"				
12-17	1757	1625	"	7.5	"				Well started to flow in morning.
12-18	0								Sanded up. Killed well. Rigged up to pull.
12-19									Pulled rods and tubing. Ran bailer and found hole open to bottom (4105) Landed 3" upset tubing at 3935.
	355	220	23.8	38.0	P 6	36/64"	260	275	
12-20	1482	1402	"	5.4	P 24	"	330	680	Well started flowing without swabbing
12-21	1129	1109	"	1.8	P 24	"	"	650	
12-22	984	974	"	1.0	"	"	320	600	
12-23	968	958	"	"	"	"	300	510	
12-24	1053	1042	"	"	"	57/64	125	400	
12-25	1117	1101	"	1.4	"	1 1/2"	50	275	
12-26	1093	1082	"	1.0	"	1 1/2 & 1 1/2	40	275	
12-27	1027	1015	"	1.2	"	"	35	260	
12-28	979	966	"	1.3	"	"	35	260	
12-29	973	963	"	1.0	"	"	25	260	
12-30	963	955	"	0.8	"	"	25	260	
12-31	938	929	"	1.0	"	"	25	270	

No daily gas
Dec gas 18,573 MCF

DIVISION OF OIL AND GAS
 RECEIVED
 JAN 14 1938
 104 W. WASHINGTON

DIVISION OF OIL AND GAS

Sun Oil Co. LOG OF OIL OR GAS WELL

Operator Union Oil Company of California Field Long Beach

Well No. Oil Operators 2 NW180th 2 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Location 523' W'ly along the center line of Bixby Road projected from the center of the Pacific Electric Railway Right of Way and thence 46' S'ly at 90° Elevation 56.97

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 Jan. 11, 1938

Signed Henry E Winter

(Engineer or Geologist) _____ (Superintendent) _____ Title District Engineer (President, Secretary or Agent)

Commenced drilling Nov. 13, 1937 Completed drilling Dec. 14, 1937 Drilling tools Cable Rotary

Total depth	Plugged depth	GEOLOGICAL MARKERS		DEPTH
<u>4105</u>		<u>Wilbur shale</u>		<u>3597-3662</u>
		<u>Alamitos shale</u>		<u>3795-3860</u>
		<u>"H"</u>		<u>3982</u>
		<u>"I"</u>		<u>4017</u>

Commenced producing Dec. 14, 1937 (date) Flowing/gas lift/pumping 1st 4 days (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	<u>854</u>	<u>23.8</u>	<u>1.7</u>			
Production after <u>17</u> days	<u>929</u>	<u>23.8</u>	<u>1.0</u>		<u>25</u>	<u>270</u>

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
<u>13-3/8</u>	<u>759</u>	<u>Surface</u>	<u>45.97#</u>	<u>New</u>	<u>Smls.</u>	<u>"C"</u>	<u>17"</u>	<u>350</u>	
<u>8-5/8</u>	<u>4016</u>	<u>Surface</u>	<u>32# & 36#</u>	<u>New</u>	<u>Smls</u>	<u>"C"</u>	<u>12-1/4"</u>	<u>400</u>	
<u>6-5/8</u>	<u>4105</u>	<u>3991</u>	<u>26#</u>	<u>New</u>	<u>Smls</u>	<u>"C"</u>	<u>7-5/8"</u>	<u>-</u>	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
<u>6-5/8</u>	<u>4015</u> ft.	<u>4105</u> ft.	<u>120 mesh</u>	<u>16</u>	<u>6</u>	<u>Koba</u>
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths Schlumberger from 759 to 4104. (Attach Copy of Log)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 14 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 2 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Jenny E. Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	708	708			Sand and gravel
708	770	62			Shale
770	1171	401			Sand and streaks of shale
1171	1215	44			Shale and streaks of sand
1215	1255	40			Sand and streaks of shale
1255	1277	22			Shale
1277	1425	148			Sand and streaks of shale
1425	1451	26			Shale
1451	1535	84			Sand and streaks of shale
1535	1560	25			Shale
1560	2017	457			Sand and streaks of shale
2017	2044	27			Shale
2044	2153	109			Sand and streaks of shale
2153	2170	17			Shale
2170	2235	65			Sand and streaks of shale
2235	2420	185			Shale and streaks of sand
2420	2526	106			Shale
2526	2877	351			Shale and streaks of sand
2877	2941	64			Shale
2941	2975	34			Shale and streaks of sand
2975	2978	3			Shell
2978	3075	97			Sand and streaks of shale
3075	3105	30			Shale
3105	3245	140			Sand and streaks of shale
3245	3247	2			Shell
3247	3336	89			Sand and streaks of shale
3336	3388	52			Shale and streaks of sand
3388	3390	2			Shell
3390	3480	90			Shale and streaks of sand
3480	3710	230			Sand and streaks of shale
3710	3713	3			Shell
3713	3798	85			Sand and streaks of shale
3798	3896	98			Shale and streaks of sand
3896	3899	3			Shell
3899	3983	84			Sand and shells (See core record)
3983	4101	18			Shale and streaks of sand (See core record)
4101	4105	4			Hard sand

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 CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS NO. 2 Sec. 13, T. 4-S, R. 13-W, SB B. & M.

FORMATIONS PENETRATED BY WELL

Henny E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
4105	4558	453	Drilled		Shale and sand
4558	4659	101	"		Sand and shale
4659	4749	90	"		Sand and hard shale
4749	4825	76	"		Shale
4825	4853	28	"		Sand and shale
4853	4957	104	"		Sand
4957	5000	43	"		Shale
5000	5297	297	"		Sand
5297	5360	63	"		Shale
5360	5385	25	"		Sand
5385	5404	19	"		Shale
5404	5471	67	"		Sand
5471	5480	9	"		Shale
<u>No cores taken.</u>					

Note: - see supplementary sheet rec'd. 1/20/42 for core taken between 4800-4802 E.P.M.

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

RECEIVED
JAN 14 1938

FIELD Long Beach COMPANY Union Oil LEASE Oil Operators WELL #2
LOCATION 36.97 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
1937												
12-3	1	7-5/8" Soli	3965	3983	12.0			12.0		Firm to hard, fine to medium gray sand. Streak of brown shale 4.3 from top. <u>Dip 25°</u>		
12-4	2	7-5/8" Soli	3983	4001	13.0	6.9	0.9			Hard dark brown shale, sandy in spots <u>Dip 16°</u> . Fractures of 35° and 37° Soft fine brown oil sand. Good odor Hard dark brown shale. Top 0.2 badly fractured		
						1.4				Firm, soft, medium brown oil sand. Shale partings in top 0.2		
						0.7				Hard dark brown shale. Fracture of 43°		
						0.2		2.8		Firm soft fine to medium brown oil sand		
						0.1				Hard dark brown shale		
						8.6	4.4					
12-4	3	7-5/8" Soli	4001	4019	16.5	0.8	0.3			Hard dark brown shale Soft fine brown oil sand		
						4.3				Hard dark brown silty shale, inclusions of fine brown oil sand in bottom 0.7		
						0.5				Firm soft fine brown oil sand		
						0.2				Hard dark brown sandy shale		
						0.5				Firm soft fine brown oil sand		
						0.4				Hard dark brown shale		
						0.1	0.4			Firm to hard fine brown oil sand with streaks and inclusions of hard brown shale		
						0.5				Firm soft fine brown oil sand		
						0.4				Hard dark brown shale		
						0.3				Firm soft fine brown oil sand		
						7.8				Hard dark brown shale, sandy in spots Streaks of fine brown oil sand 2.1 from bottom. <u>Dip 15°</u>		
						14.0	2.5					
12-4	4	7-5/8" Soli	4019	4034	14.1		0.9			Firm fine brown oil sand with inclusions of hard brown shale. Good odor and dark amber cut		
						0.2				Hard dark brown shale		
						5.2				Firm, soft, fine to medium brown oil sand. Good odor and dark amber cut		
						1.3				Firm soft coarse brown oil sand		
						0.4				Firm soft fine brown oil sand		
						0.2				Hard dark brown shale		
						3.1				Firm soft medium to coarse brown oil sand. Good odor and dark amber cut		
						2.8				Firm soft fine to medium brown oil sand. Good odor and dark amber cut		
						0.4	13.7					

UNION OIL COMPANY OF CALIFORNIA

CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE 2 WELL LOCATION ELEVATION

14

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
1937			4034	4060						Drilled interval <i>Henry E Winter</i>		
12-10	5	7-5/8" Soil	4060	4076	8.1		0.7			Firm soft fine to medium brown oil sand		
						0.1			0.2	Hard calcareous sandstone shell		
							3.0			Hard dark brown shale		
										Firm soft, medium brown oil sand. Good odor and dark amber cut		
						0.2				Hard dark brown shale		
							1.6			Firm soft fine brown oil sand laminated with mud		
						0.1				Hard dark brown shale		
							0.3			Firm soft fine dark brown argillaceous oil sand. Partings of dark brown shale		
						1.0				Hard dark brown shale with streaks of fine brown oil sand		
						0.3				Hard grayish-brown bentonitic shale laminated with fine brown oil sand		
						0.2				Hard dark brown shale		
							0.1			Fine grayish-brown oil sand. Light amber cut		
						0.3				Shale with streaks of oil sand. Broken and badly burnt		
						2.2	5.7		0.2			
12-11	6-	7-5/8" Soil	4076	4088	11.2		0.1			Firm soft fine brown oil sand		
						7.7	0.5			Hard brown silty shale with inclusions of fine gray sand. Streaks of fine brown oil sand. Fracture of 25° & 29°		
							0.2			Firm soft fine brown oil sand. Good odor and dark amber cut		
						0.2				Hard dark brown sandy shale		
						0.3				Firm soft fine brown oil sand		
						0.3				Hard dark brown sandy shale		
						0.4	0.1		0.5	Hard slightly calcareous shale shell		
										Hard dark brown sandy shale with streaks of fine brown oil sand		
							0.2			Firm soft fine dark brown argillaceous oil sand		
						0.7	0.1			Hard dark brown sandy shale with streaks of fine brown oil sand. Fracture of 24°		
						9.2	1.5		0.5			

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE 2 WELL LOCATION 06.07 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
1937												
12-11	7	7-5/8" Soli	4088	4105	14.4	0.1				Henry E. Winter Hard dark brown sandy shale		
									0.3	Hard, slightly calcareous, sandy shale shell		
						0.3				Hard brown sandy shale		
							5.2			Firm soft fine to medium brown oil sand		
										Good odor and dark greenish-brown cut		
						0.4	0.1			Hard sandy brown shale with streaks of fine brown oil sand		
									0.4	Firm fine dark brown argillaceous oil sand		
						0.2				Hard dark brown sandy shale		
							0.3			Firm soft fine brown oil sand		
						0.3				Hard brown sandy shale		
							0.4			Firm soft fine brown oil sand		
						0.1				Hard brown silty shale		
							0.5			Firm soft, fine dark brown oil sand. Good odor and dark greenish-brown cut		
										Dip 15°		
						0.7				Hard dark brown silty shale		
							0.7			Soft, loose, fine brown oil sand		
						0.7				Hard dark brown broken shale		
						0.1	0.8			Soft loose, fine to medium brown oil sand with streaks and inclusions of brown shale		
						0.1	0.5			Firm medium brown oil sand with streak of brown shale		
						0.3				Hard brown sandy shale		
							1.0			Firm soft fine to medium brown oil sand		
										Good odor and dark greenish-brown cut		
										Dip 15°		
						0.7	0.2			Hard dark brown silty shale with streak of fine brown oil sand		
						4.0	10.1		0.3			
										Total depth 4105 ft.		

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T-1-33546

Los Angeles, Calif. December 27, 1937.

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your well No. "OIL OPERATORS" 2, 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 10, 1937. Mr. F. C. Stolz,

Time and date

designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there

were also present R. W. Rampton, Engineer, and

J. Kewish, Toolpusher.

Location of water tested above 4016' and normal fluid level not determined.

Depth and manner of water shut-off: { 2053 ft. of 8-5/8 in. 32 lb. } casing was { 12-5-37 cemented } in shale Formation
{ 1963 ft. of 8-5/8 in. 36 lb. }

at 4016 ft. with 400 sacks Victor oil well and construction cement by casing method.

Water string was landed in 12 1/2" rotary hole.

Size, rotary or cable tool

Casing record of well 13-3/8" cem. 759'; 8-5/8" as above.

Reported total depth of hole 4034 ft. Hole bridged from xx ft. to xx ft. Hole cleaned out to 4021 ft. for this test.

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

At See below oil bailed to XXXX ft., drilling fluid { bailed } to XXX ft.
Time and date { swabbed }

At " " top of oil found at XXXX ft., top of fluid found at XXXX ft.
Time and date

THE INSPECTOR ARRIVED AT THE WELL AT 9:15 A. M. AND MR. RAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 27' 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 4005'.
5. The tester valve was opened at 8:51 a. m. and remained open for 33 minutes. During this interval there was a medium air blow for 4 minutes, a gas blow by heads for 15 minutes and a light blow for the remaining 11 minutes.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 40' of medium drilling fluid and 1890' of oil and gas was found in the drill pipe above the tester, equivalent to 0.6 and 27.0 bbl.
 2. The recording pressure bomb chart showed that the tester valve was open for 33 minutes.
- The test was completed at 11:40 a. m.

THE SHUT-OFF IS APPROVED.

cc- H. E. Winter
Long Beach

FCS:OH

R. D. BUSH

State Oil and Gas Supervisor

By *E. Augustin* Deputy

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, Depty. Supv.,
Division of Oil & Gas,
Los Angeles, Calif.

RE: Oil Operators #2

Dear Sir:

The elevation of the Union Oil Company
well "Oil Operators #2" at Long Beach (Sec. 13, 4S, 13W)
is 56.97 U.S.G.S.

The corrected location is as follows:

523 ft. Westerly along the center line of
Bixby Road projected from the center line
of the Pacific Electric Railway Right of Way
and thence 45 ft. Southerly at 90°

Our records have been corrected
accordingly.

Very truly yours,

Henry E Winter
District Engineer.

HEW:S

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-33385

Los Angeles, Calif. November 22, 1937

Mr. Ed Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

121

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 2 Sec. 13, T. 4S., R. 13W., S. B. B. & M.,
Long Beach Field, in Los Angeles County, were witnessed by
F. C. Stolz, representative of the supervisor,
on November 17, 19 37. There was also present H. E. Winter, Engineer,
and J. Kewish, Drilling Foreman.

Casing Record 13-3/8" cem. 759'. T. D. 761'. Junk --

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 3:00 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. A 17" rotary hole was drilled from the surface to 761'.
2. 766' of 13-3/8" - 45.97 lb. casing was run into the hole to 759'.

THE INSPECTOR NOTED THE FOLLOWING:

1. The 13-3/8" casing was cemented at the reported depth of 759' with 350 sacks of Monolith Velo cement.
2. The cement was displaced with 674 cubic feet of mud fluid.
3. The final pressure was 500 lb.

The operations were completed at 4:15 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

FCS:G

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

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

037-09793

General Exploration Co. Santa Fe Springs Cal. Oct. 28, 19 37

MR. E. Huguenin,
Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

Pi-31536

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 #2, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M., Long Beach Oil Field Los Angeles County.

Lease consists of 523 ft. westerly along the center line of Bixby Road projected from the center line of the Pacific Electric Railway Right of Way and thence 580' N'ly along center line of San Antonio from the center line of Del Mar and thence 115' N'ly at right angles
The well is feet N. or S., and feet E. or W. from (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 feet. (Approx. 55') 56.97

45 ft. southerly at 90°. 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.
~~cable~~

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 426-87

By Henry E. Winter
District Engineer

Wildcat - Wall.
Topog - 257.

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

Wildcat Book
GFB
10/29/37

2100

2200

2300

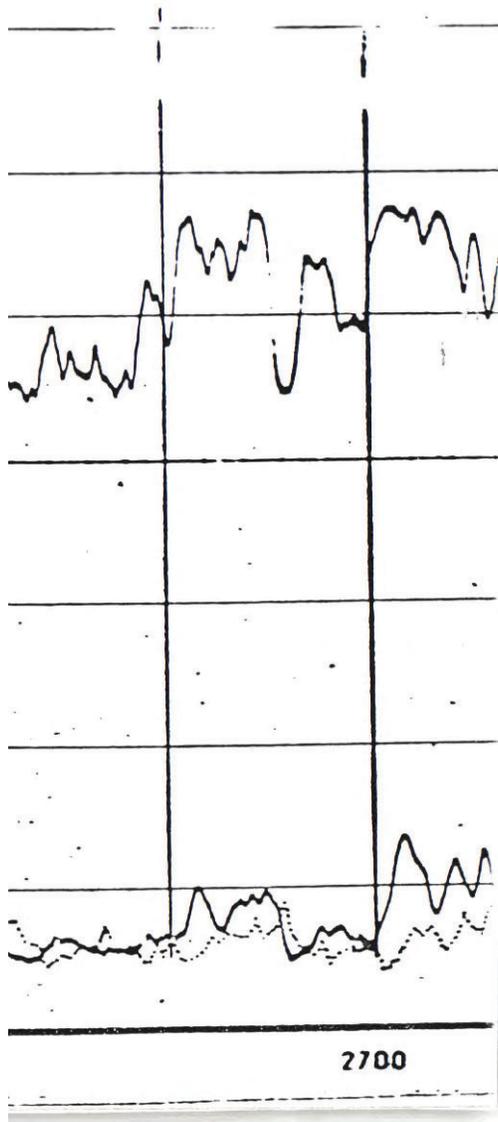
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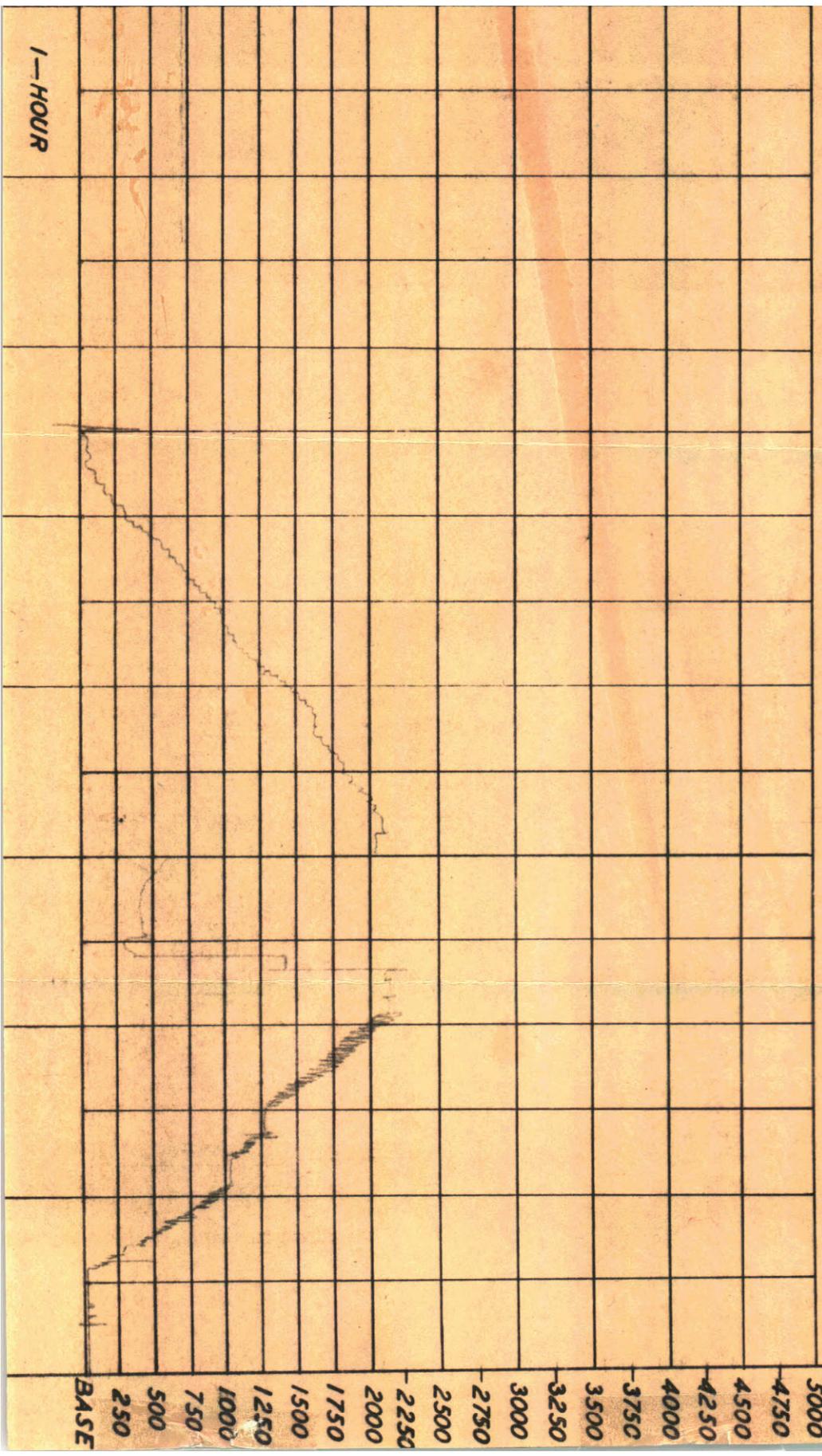
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2143
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2074





ELD SERVICE CORPORATION.



L.A.

SC

Pacific Energy Resources Ltd.
"Oil Operators" 2
NW LBA 8-2
LONG BEACH
Sec. 13-4S-13W.
operators #2

COM

937

FIELD

LONG BEACH

WELL

ELEVATION :ft.

W. LONG BEACH
Union Oil Co.
Oil Operators #2
RUN No. C-4-373

Casing shoe depth: { Driller 4016 ft. Started run 9:00 a.m.
 Schlumbergerft. Finished run 11:00 a.m.
 Bottom Depth: Driller 4105 ft. Time well occupied by outfit 2 h.
 Max. depth reached by lower elect 4104 ft. Time waiting at well -- h.
 Max. footage measured (p or S. P.) 72 ft. Mileage incurred by run 10 M.
 Footage missed 1 ft. Total time incurred by run 3 h.

MUD CHARACTERISTICS

NATURE : natural VISCOSITY : no sample LEVEL :
 DENSITY : 72 RESISTIVITY : no sample

DIAMETER OF HOLE

7-5/8"

1-275

REMARKS

Device: 20"

Tool	Card	Form
		114 181

SCHLUMBERGER ELECTRICAL LOGS

COMPANY : UNION OIL CO. DATE : 12/4/37
 FIELD : W. Long Beach LOCATION :
 WELL : Oil Operators #2 ELEVATION :ft.

W. LONG BEACH
Union Oil Co.
Oil Operator #2
RUN No. C-4-330

Casing shoe depth: { Driller 759 ft. Started run 4:15 p.m.
 Schlumbergerft. Finished run 5:45 p.m.
 Bottom Depth: Driller 4034 ft. Time well occupied by outfit 1 1/2 h.
 Max. depth reached by lower elect 4032 ft. Time waiting at well none h.
 Max. footage measured (p or S. P.) 173 ft. Mileage incurred by run 15 M.
 Footage missed 2 ft. Total time incurred by run 3 h.

MUD CHARACTERISTICS

NATURE : Natural VISCOSITY : 24 LEVEL :
 DENSITY : 75 RESISTIVITY : 3.4

DIAMETER OF HOLE

12 1/4" -- 3965 7-5/8" -- below

REMARKS

Device: 20"

SCHLUMBERGER ELECTRICAL LOGS

COMPANY: UNION OIL CO. DATE: 12/2/37

FIELD: Long Beach LOCATION:

WELL: Oil Operators #2 ELEVATION: ft.

LONG BEACH
Union Oil Co.
Oil Operators #2
RUN No. 0-4-3935

Casing shoe depth:	} Driller	759 ft. Started run	10:00 p.m.
		Schlumberger	ft. Finished run 12:45 a.m.
Bottom Depth:	Driller	3859 ft. Time well occupied by outfit	2 3/4 h.
Max. depth reached by lower elect		3857 ft. Time waiting at well	none h.
Max. footage measured (p or S. P.)		3098 ft. Mileage incurred by run	15 M.
Footage missed		2 ft. Total time incurred by run	3 1/2 h.

MUD CHARACTERISTICS

NATURE: Natural VISCOSITY: LEVEL:

DENSITY: 75 RESISTIVITY: 6.8

DIAMETER OF HOLE

12 1/4"

REMARKS

Device: 20"

Witnessed By: Mr. Winter

OBSERVERS: F. PEICUSHEK

DEPTH	RESISTIVITY LOG	ohms. m ² m	POROSITY LOG	millivolts
0	15	30	-----	150 Wv.

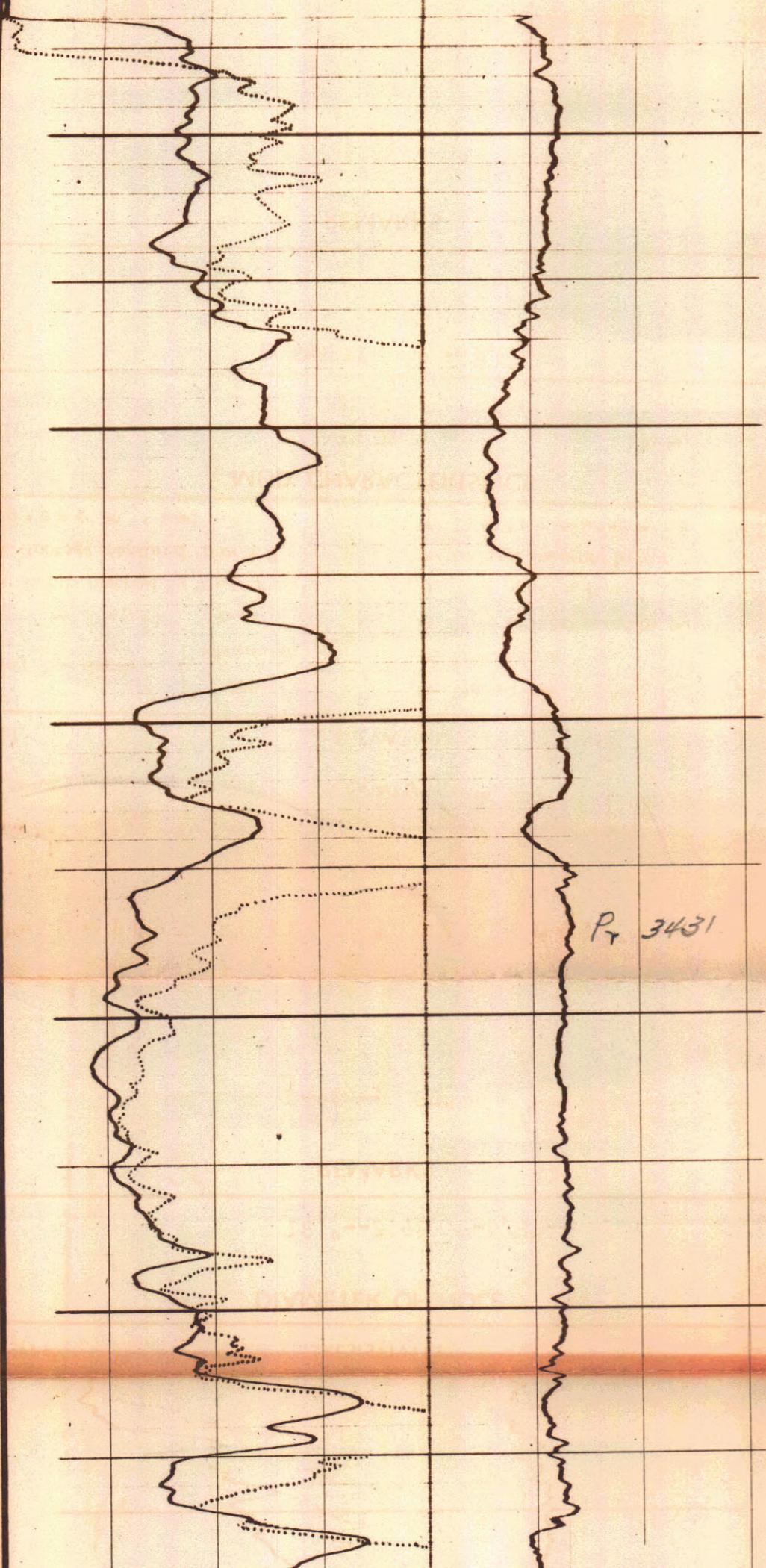
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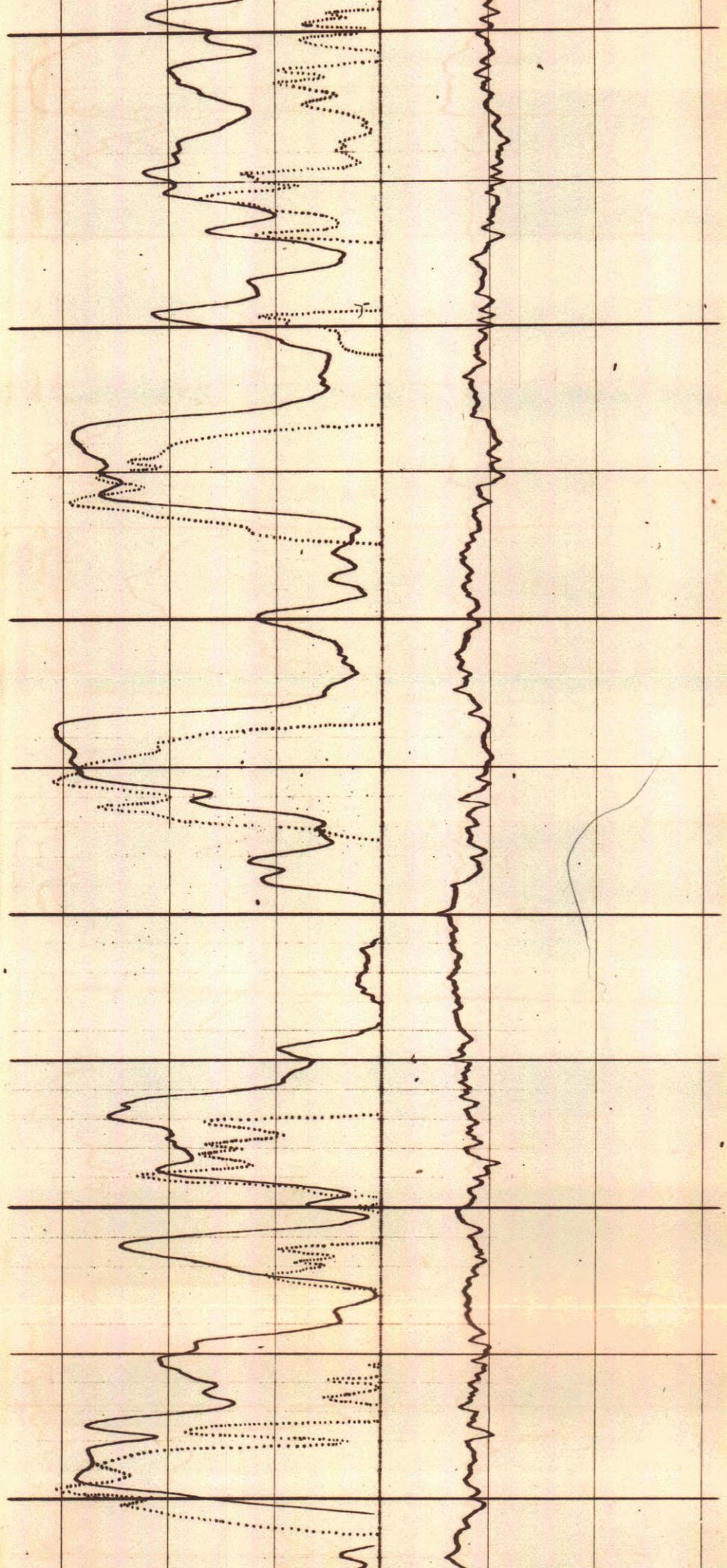
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1200



P_r 3431

1300 1400 1500 1600 1700 1800 .



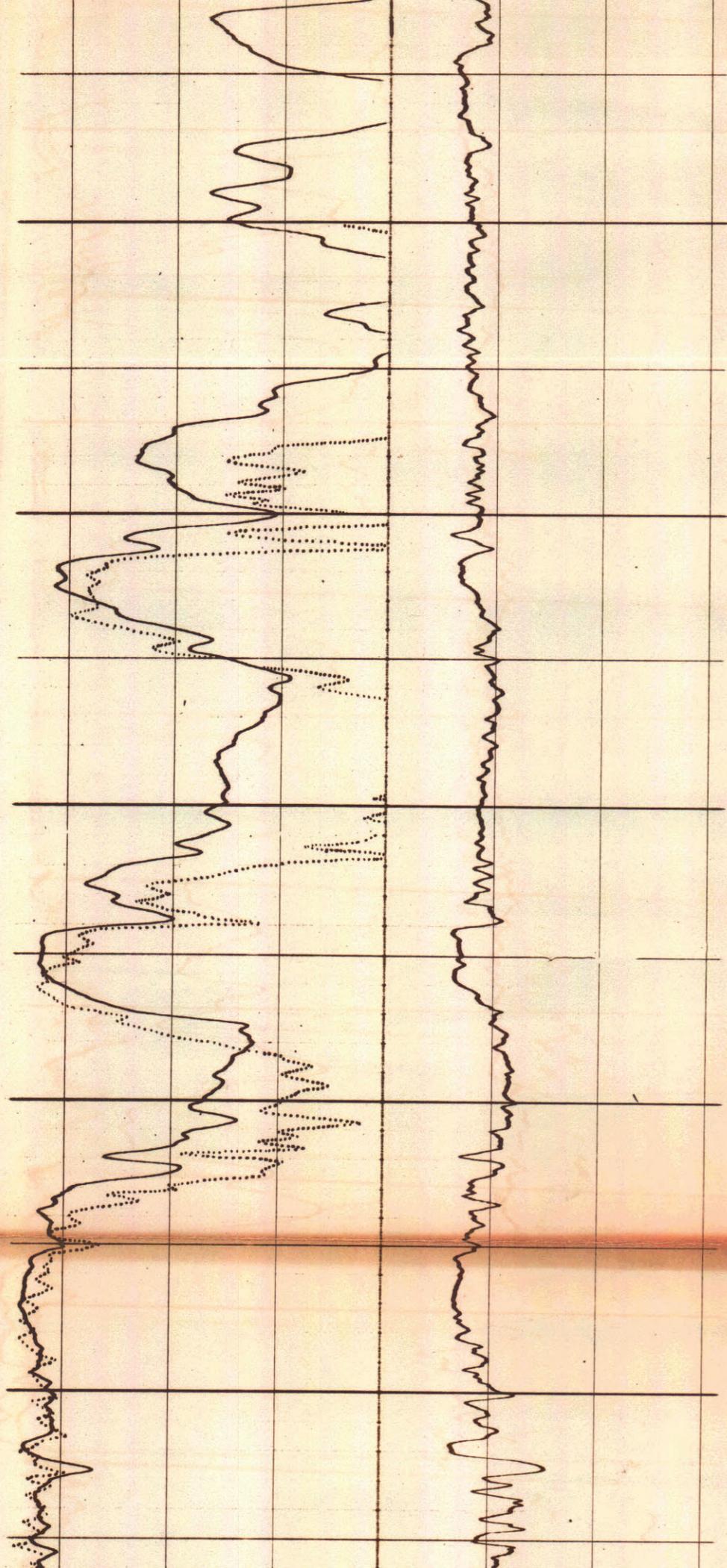
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2000

2100

2200

2300



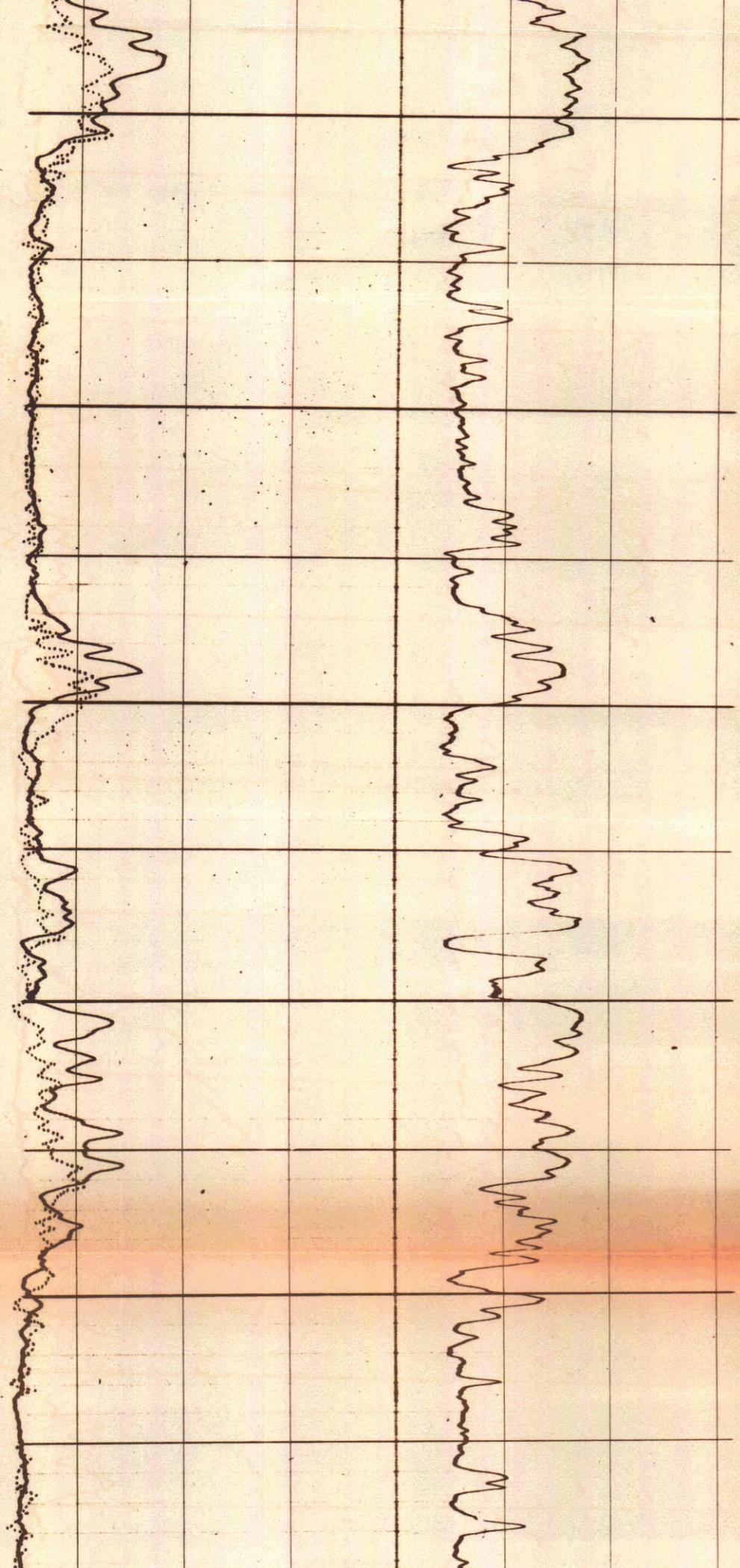
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2900

3000

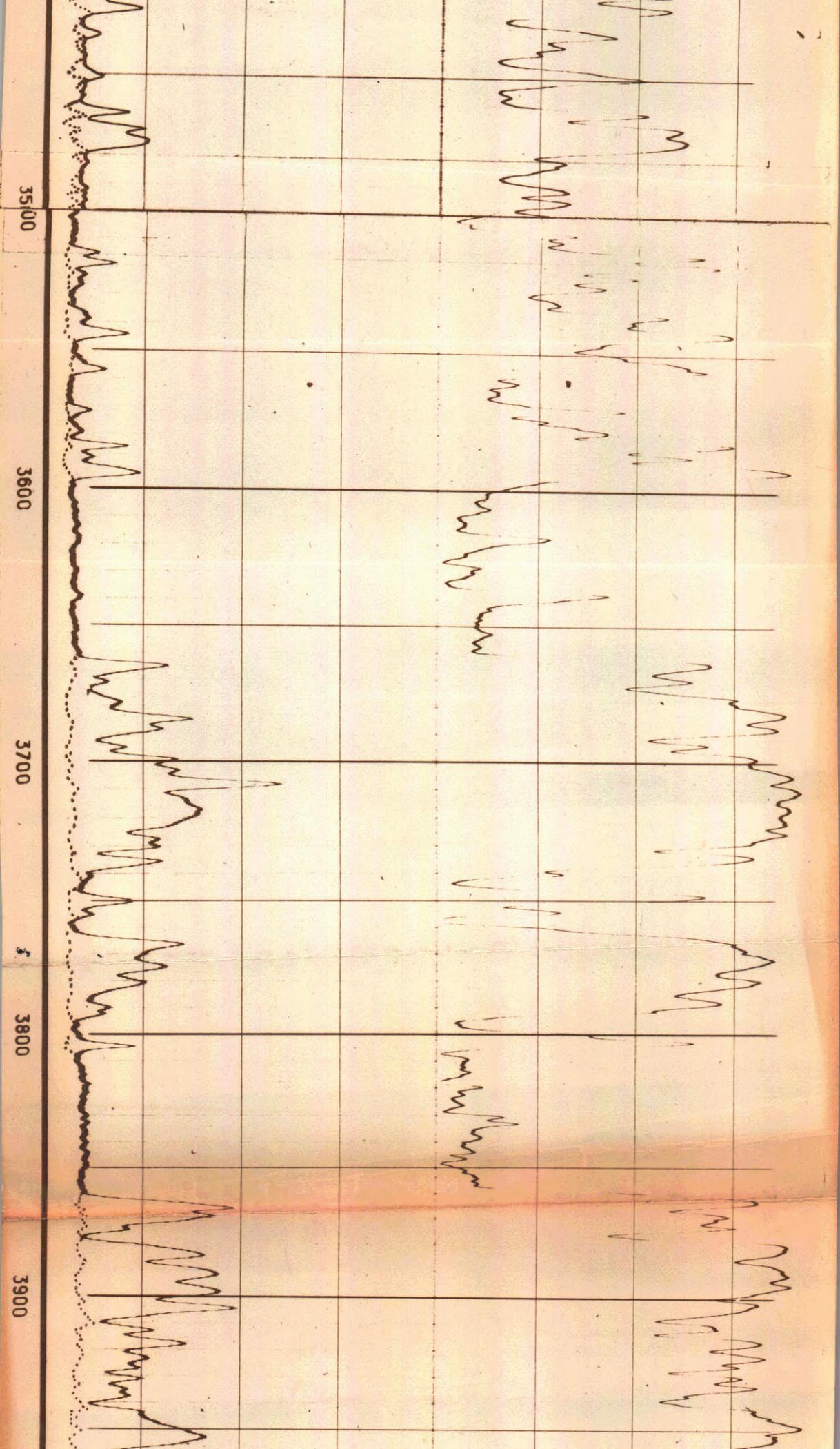
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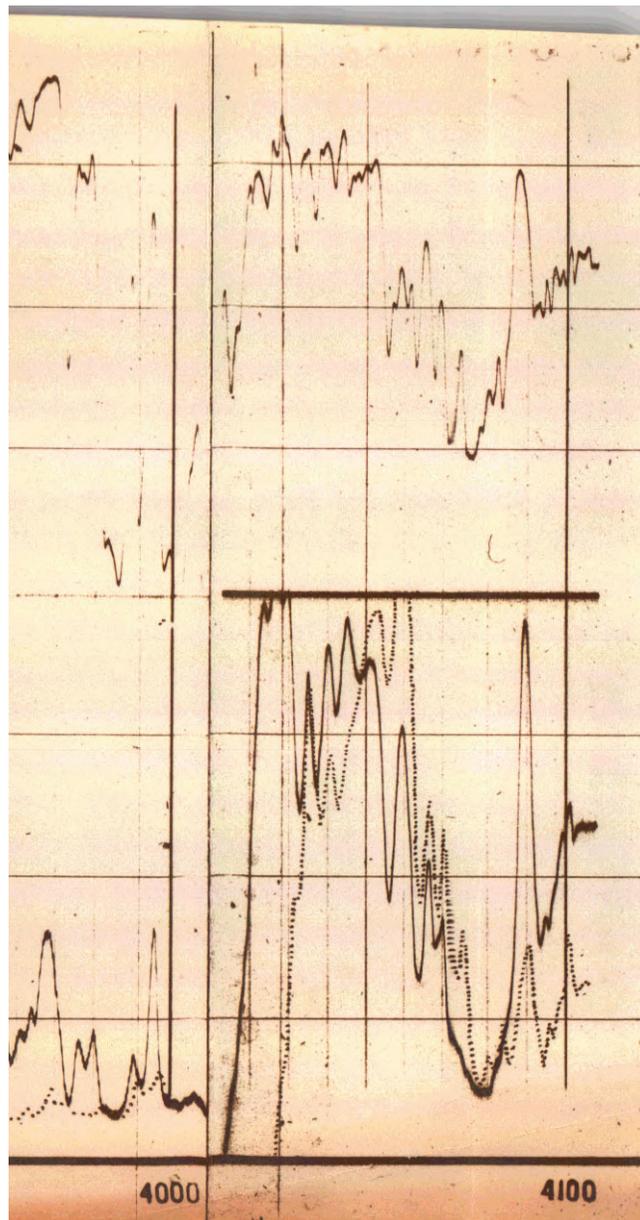
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L.A.

1 275

REGISTRATION

Pacific Energy Resources Ltd.
 LWLBU 8-2
 "Oil Operators" #2
 (037-09793)
 Sec. 13-4S-13W. LONG BEACH

COMPANY: UNION OIL CO.
 OF CALIF.
 FIELD: LONG BEACH
 WELL: OIL Operators 2
 COUNTY: Los Angeles
 FILING NO: C-8-134
 C-8-147

CO: [REDACTED]
 FIELD: [REDACTED]
 WELL: Oil Operators #2
 SEC: 13 T. 4 S. R. 13W
 COUNTY: Los Angeles STATE: Calif.
 ELEV.: 57

RUN	1-D	2-D	3	4	5
Date	10-27-41	10-29-41			
Csg. shoe	4016'	4016'			
Total depth	5235'	5480'			
Depth rchd.	5233'	5477'			
Ft. Meas.	1129'	242'			
Mud Nat.	Natural	Chemical			
Dens	76#	79#			
Visc.	40	40			
Res.	5.3 @ 82°F	5.5 @ 87°F			
Max. Temp.	160°F	175°F			
Meas. from	Top Table	Top Table			
Tension	2000#	1800#			
Rig. Time	2 hrs.	1 hr.			
Mileage	10	10			
Observer	V. Fant	W. Dale			
Witnessed by:	Mr. Winter				

DIAMETER OF HOLE
 7-5/8"

REMARKS

Standard Device 3rd Curve: -----
 Long Device 3rd Curve:

DEPTH	RESISTIVITY		SELF-POTENTIAL	
	NORMAL CURVE	THIRD CURVE	100	millivolts
0	← -ohms m ² m →	30	← →	

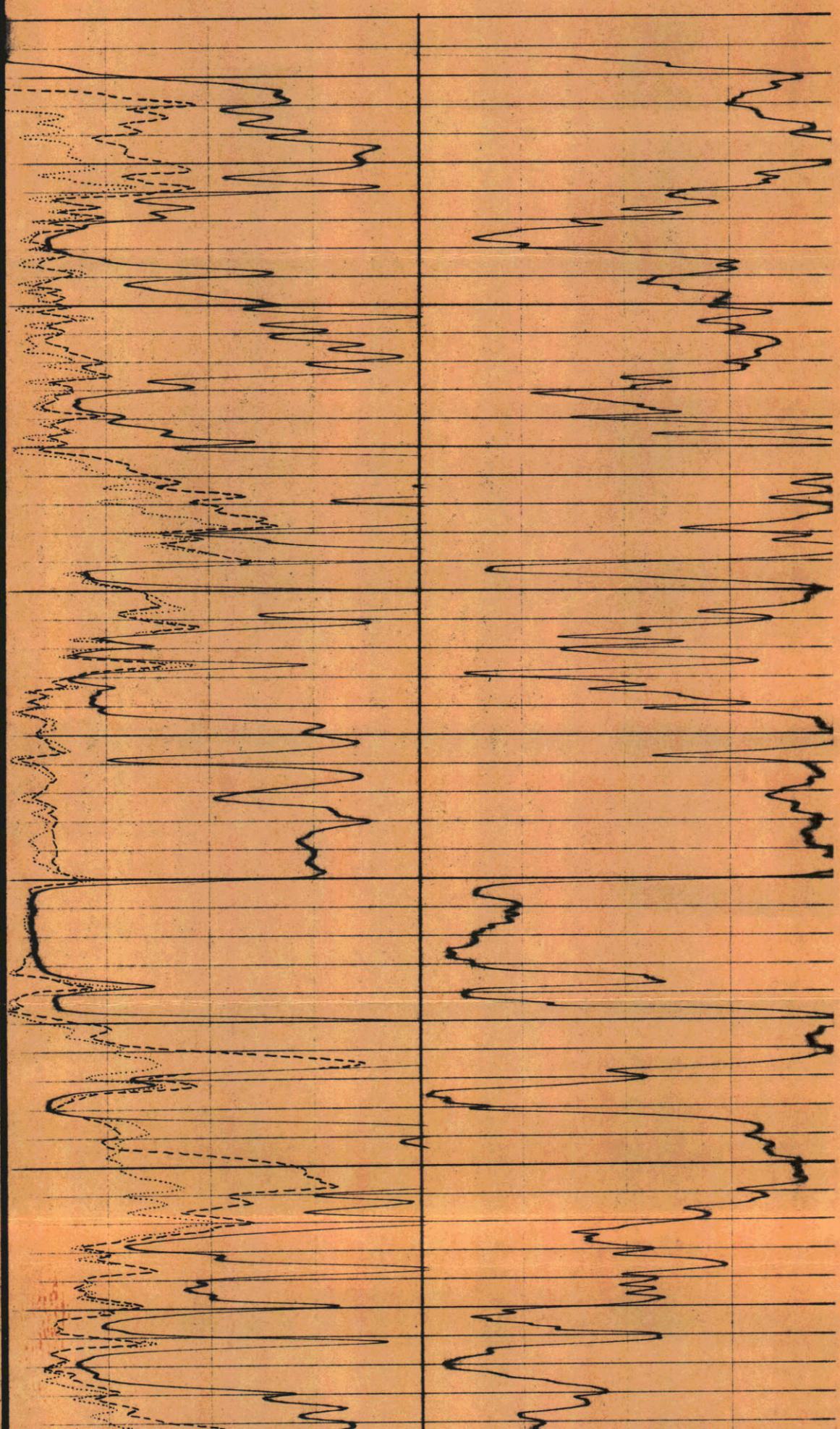
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4100

4200

4300

4400



4500

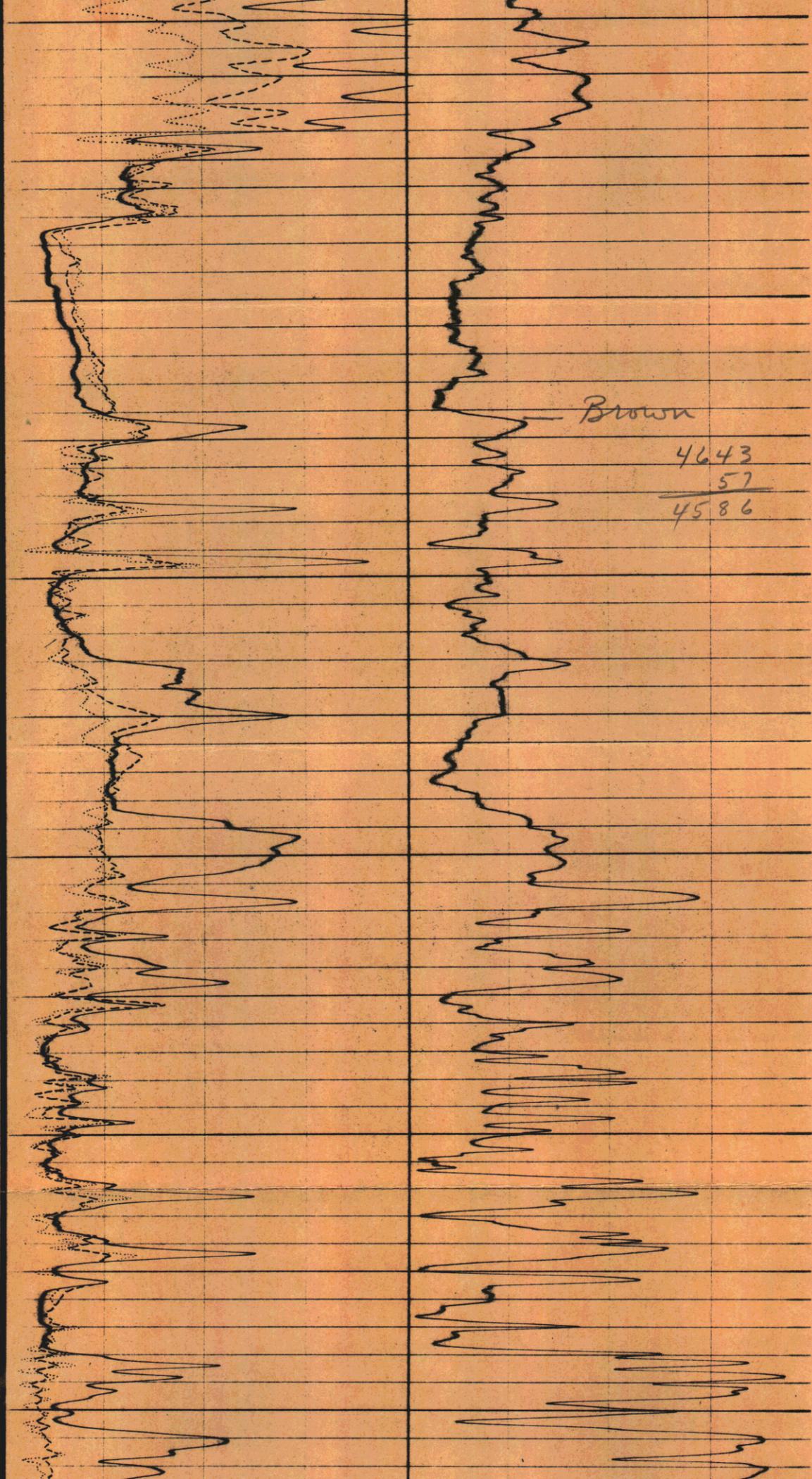
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Brown

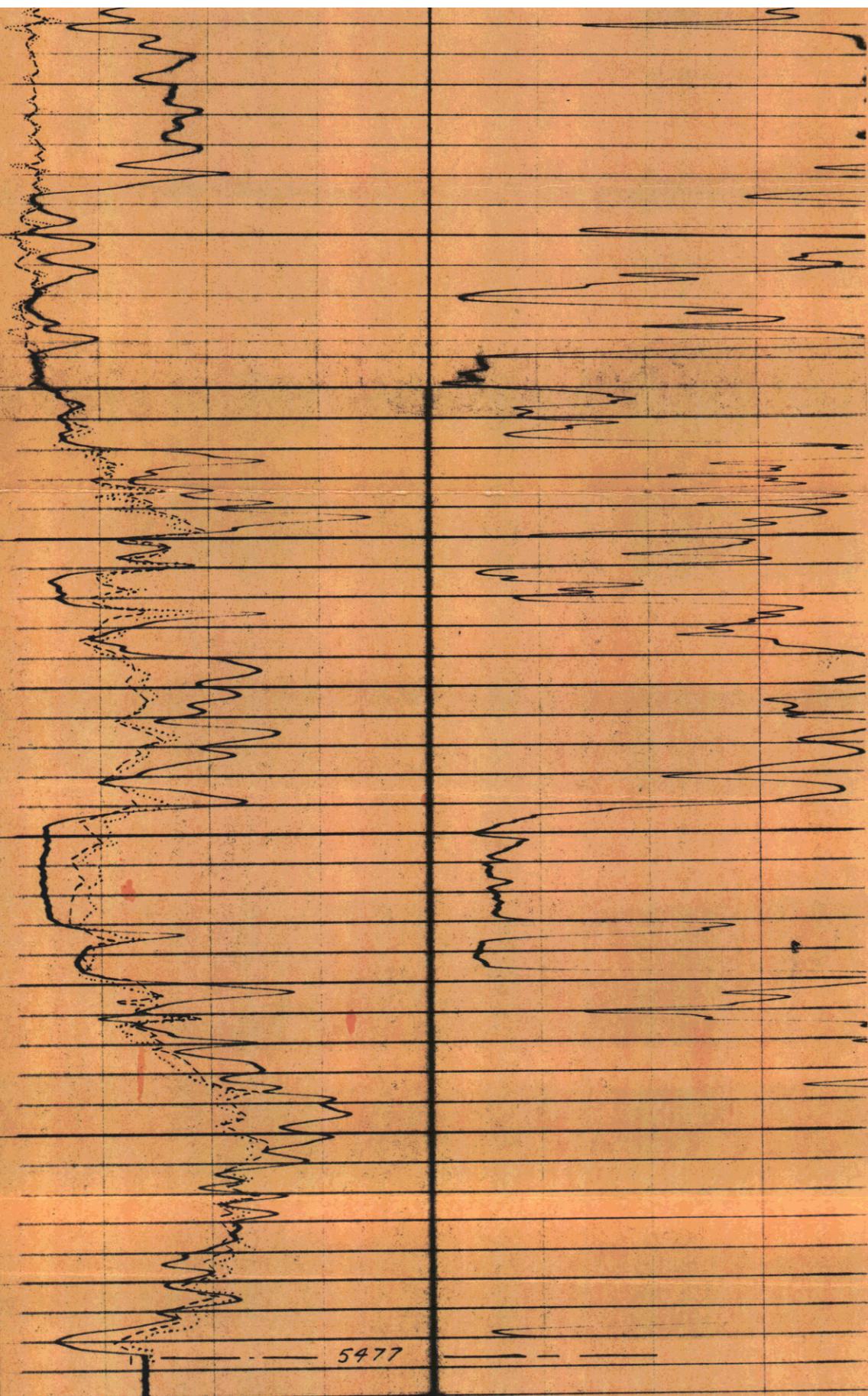
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5200

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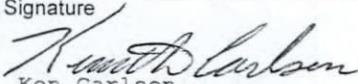


5477

10-29-41
UNION OIL COMPANY
Long Beach
Oil Operators #2

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 Attachment						
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  Ken Carlson Associate Engineer			
	FORM AND RECORD CHECK LIST					
PA – Producing Active						
NPA – No Potential, Active	Form or record	Initials	Date	Form or record	Initials	Date
PI – Potential Inactive	Form OGD121	_____	_____	Map and book		
NPI – No Potential, Inactive	Form OGD140	_____	_____	Notice to be cancelled		
Ab – Abandoned or No More Wells	New well cards			Bond status	UM	7-11-07
	Well records			EDP files		
	Electric logs			Computer Files	UM	7-11-07
	Production reports	_____	_____			

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

REPORT OF WELL PLUGGING AND ABANDONMENT

Long Beach, California

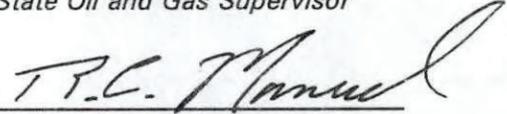
November 27, 1996

Steve Graner, President
NORTH SIDE OIL CORPORATION
P. O. Box 16007
LONG BEACH CA 90807

Your report of the plugging and abandonment of well **Pacific Energy Resources/NWLBU 8-2, A.P.I. No. 037-09793**, Section 13, T. 4S, R. 13W, S.B. B.& M., Long Beach Field, Los Angeles County, dated **November 1996**, received **November 22, 1996**, 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 relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

- NOTES:**
1. Surface plugging completed on **10-21-96**.
 2. Surface inspection made and approved **11-26-96**.

William F. Guerard, Jr.
State Oil and Gas Supervisor

By 
For R. K. Baker, Deputy Supervisor

DEC:df

NO BOND REQUIRED

cc: Update
L.A. County Assessor
L.A. County Fire Prevention Bureau
Gary Jones, City of Signal Hill
Pacific Energy Resources

OG159

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company North Side Oil Corp Pacific Energy Resource Well No. NW 26 B11 8-2
 API No. 1037-09793 Sec. 13, T. 4S, R. 13W, S.B. B. & M.
 County Boone Field Wilmington

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OG100)	_____
History (Form OG103)	<u>11-22-96</u>
Core Record (Form OG101)	_____
Directional Survey	_____
Sidewall Samples	_____
Other	_____
Date final records received	_____
Electric Logs:	_____
_____	_____
_____	_____
_____	_____
_____	_____

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil _____	Water Disposal _____
Idle - Oil _____	Waterflood _____
Abandoned - Oil <u>✓</u>	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 <u>10-21-96</u>	"E" well Yes ___ No <u>✓</u>
RECOMPLETED _____	
REMARKS _____	

ENGINEERS CHECK LIST

1. Summary, History, & Core Record (dupl.) SM
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. Directional Survey _____
13. Production _____
14. E Well on Prod., enter EDP _____
15. Surface Inspection OK 11-26-96

CLERICAL CHECK LIST

1. Location change _____ (F-OGD165)
2. Elevation change _____ (F-OGD165)
3. Form OGD121 _____
4. Form OGD150b (Release of Bond) _____
5. Duplicate logs to archives _____
6. Notice of Records Due (F-OGD170) _____
7. EDP (F-OGD42A-1,2) ✓
8. District Data Base ✓
9. Update Center _____
10. Form OG159 (Final Letter) 11-27-96

ABANDON OR

RECORDS NOT APPROVED
 Reason: _____

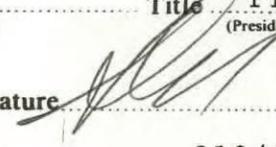
RECORDS APPROVED SM 11/96 - C-
 RELEASE BOND _____
 Date Eligible _____
 (Use date last needed records were received.)
 MAP AND MAP BOOK ✓ 137 MS
11/27/96

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Pacific Energy Resources

Operator NORTH SIDE OIL CORP. Field Wilmington County Los Angeles
Well NWLBU 8-2, Sec. 13, T. 4S, R. 13W, SB. B. & M.
A.P.I. No. 037-09793 Name Steve Graner Title President
Date November, 19 96 (Person submitting report) (President, Secretary or Agent)

Signature 

P O Box 16007, Long Beach, CA 90806

(Address)

310/424-2451

(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	
<u>1996</u>	
10/ 7	MIRU. RIH with 1-1/2" C.T.. Tagged top of lines at 3948'. Tagged fill at 4071'. Bottom of lines at 5065'. POOH. Secured well. MO.
10/14	MIRU. Filled well with water. Pressured casing to 500psi and held for 10 minutes. RIH with 1-1/2" C.T. to 3946'. Unable to go deeper. POOH. Secured well.
10/15	MIRU. RIH with 1-1/2" C.T. to 3946'. Spotted 5 barrels water followed by 181 cf of cement. Estimated TOC at 3417'. POOH. Filled hold with water. Pressured up casing to 500psi and held for 5 minutes. Squeezed 8-1/2 cf away. Estimate TOC at 3442'.
10/16	MIRU. RIH with 1-1/2" C.T. Tagged TOC at 3400'. Mudded hole with 72% mud from 3400' to 2575'. POOH. Rigged up Primo wireline and shot cavity shot at 2575'. RIH with 1-1/2" C.T. to 2575'. Spotted 5 barrels water followed by 152 cf of cement. Estimate top at 2132'. POOH. Filled hole with water. Downsqueezed 11 cf with 550psi and held for 5 minutes. Estimate TOC at 2164'.
10/17	MIRU. RIH with 1-1/2" CT and tagged TOC at 2177'. Mudded hole with 133 barrels of 72% mud from 2177' to surface. POOH. Secured well.
10/19	MIRU. Cut 8-5/8" casing at 70'. MO. MIRU. RIH with 1-1/2" C.T. to 70'. Spotted 5 barrels water followed by 242 cf of cement. Cement to surfact. POOH. Cement top fell. Cement with 97 cf of cement to surface.
10/21	Welded steel plate on casing. Well abandoned.

RECEIVED

NOV 22 1996

DIVISION OF OIL, GAS
& GEOTHERMAL RESOURCES
LONG BEACH



Jm

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

No. T 196-750

REPORT ON OPERATIONS

Long Beach, California
November 22, 1996

Steve Graner, President
NORTH SIDE OIL CORPORATION
P. O. Box 16007
LONG BEACH CA 90807

Your operations at well Pacific Energy Resources/NWLBU 8-2, A.P.I. No. 037-09793, Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County, were witnessed on 10-21-96. Bill Fedasko, representative of the supervisor, was present from 1530 to 1600. There was also present Steve Graner, President.

Present condition of well: 13 3/8" cem 759'; 8 5/8" cem 4016' WSO, cav shot 2575', pulled fr 70'; 5 1/2" cem 3950'-5475', perf 4869' WSO, perf 4018'-4055', 4118'-4228', 4640'-4700', @ int 4835'-4945', 5165'-5245', & 5345'-5395', collapsed 3980' ±. TD 5480'. Plugged w/cem 5475'-5456', 5415'-5065', 3946'-3400', 2575'-2177', 70'-5'.

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 10-14-96.

DEFICIENCIES: None.

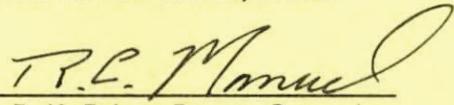
Surface Inspection Approved 11-26-96 

CONTRACTOR: Fleet Cementers, Inc.

DEC:df

cc: Update
Pacific Energy Resources

William F. Guerard, Jr.
State Oil and Gas Supervisor

By 
For R. K. Baker, Deputy Supervisor



nwlBU - 8-2
View: west, 10-21-96
Photo - Bill F. with R. Manuel

001-011

010
01-11

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Fleet America, Inc

API No. 03709793

DIVISION OF OIL AND GAS

T. _____

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator Pacific Energy Res. Well "NWLB4" 8-2
 Field _____ County _____ Spud Date _____

VISITS: Date 10/14/95 Engineer R. Navie Time (0900 to 0915) Operator's Rep. _____ Title _____
 1st _____ (_____ to _____)
 2nd _____ (_____ to _____)
 Contractor Fleet Cement, Inc Rig # _____ Contractor's Rep. & Title L. Bowen, RP
 Casing record of well: _____

MEMO

OPERATION: Testing (inspecting) the blowout prevention equipment and installation.

DECISION: The blowout prevention equipment and its installation on the 8 1/2" casing are approved.

Proposed Well Opns: ABU MACP: _____ psi **REQUIRED**
 Hole size: _____ " fr. _____ ' to _____ ' , _____ " to _____ ' & _____ " to _____ ' **BOPE CLASS:** D 2 1/4

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.
A	1 1/2	Bell Rubber Co	HL-HD	1 3/4	3000								
A	650	Hangwell	B	4	4000								
A	1 1/2	Bell Rubber Co	HL-HD	1 3/4	3000								

ACTUATING SYSTEM				TOTAL:		AUXILIARY EQUIPMENT							
Accumulator Unit(s) Working Pressure _____ psi								Connections				Test	
Total Rated Pump Output _____ gpm												Press.	
Distance From Well Bore _____ ft.													
Accum. Manufacturer		Capacity	Precharge	Fill-up Line		No.	Size (in.)	Rated Press.	Weld	Flange	Thread		
1		gal.	psi	Kill Line			2 1/2	2000				✓	
2		gal.	psi	Control Valve(s)									
CONTROL STATIONS				Elec.	Hyd.	Pneu.							
Manifold at accumulator unit													
Remote at Driller's station				✓									
Other:													
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.	✓	Pipe Safety Valve		1 1/2	2000			
							Internal Preventer						

HOLE FLUID MONITORING EQUIPMENT			Alarm Type		Class	Hole Fluid Type		Weight	Storage Pits (Type & Size)		
	Audible	Visual									
Calibrated Mud Pit					A	Clay based mud					
Pit Level Indicator					B						
Pump Stroke Counter											
Pit Level Recorder											
Flow Sensor					C						
Mud Totalizer											
Calibrated Trip Tank											
Other:											

REMARKS AND DEFICIENCIES: _____

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

No. P 196-1138

PERMIT TO CONDUCT WELL OPERATIONS

412
(Field Code)

03
(Area Code)

--
(New Pool Code)

00
(Old Pool Code)

Steve Graner, President
NORTH SIDE OIL CORP.
P. O. Box 16007
Long Beach, CA 90807

Long Beach, California
September 16, 1996

Your proposal to abandon well Pacific Energy Resources/NWLBU 8-2, A.P.I. No. 037-09793, Section 13, T. 4S, R. 13W, S.B. B. & M., Long Beach Field, Northwest Extension area, -- pool, Los Angeles County, dated 9/12/96, received 9/12/96 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 well 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. The well shall be plugged with cement from 3918' to 3850'.
4. The cement plug proposed to be placed to 2410' shall extend to at least 2375' outside and inside the casing.
5. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
6. THIS DIVISION SHALL BE NOTIFIED TO:
 - a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
 - b. Witness the placing, location and hardness of the cement plug from 5065' to 3850'.
 - c. Witness the mudding of the hole.
 - d. Witness the placing, location and hardness of the cement plug from 2575' to 2375'.
 - e. Witness the placing, location and hardness of the cement plug from 70' to 6'.
 - f. Inspect and approve the cleanup of the well site within 60 days after placement of the surface plug.

NOTE:

1. This Division does not pass upon your right to enter the property, but merely approves the proposal as conforming to our requirements.

10/11/96 5" hole bronze / Currys - 5 1/2" COUPLERS @ 3980' ±, well down 527

DEC:dc w/ excess cement - OK on

cc: Update
EDP
Gary Jones/Signal Hill
Pacific Energy Resources

NO BOND REQUIRED

Engineer: D. E. Curtis

Phone: 310/590-5311

William F. Guerard, Jr.
State Oil and Gas Supervisor
By T.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.

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

412
03
00
K
OG

Notice of Intention to Abandon Well

File in Duplicate

P196-1138

FOR DIVISION USE ONLY			
CARDS	BOND <small>AL</small>	FORMS	
		OGD114	OGD121
9/13/96	BB	9/13/96	9/13/96

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well (North Side Oil Company 8-2), API No. 037-09793

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

commencing work on October 10, 19 96.

The present condition of the well is:

- Total depth 5480'
- Complete casing record, including plugs and perforations (present hole)
see over
- Last produced 8/93 5 0 460
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
(or)
- Last injected _____
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Additional data for dry hole (show depths):

- Oil or gas shows
- Stratigraphic markers
- Formation and age at total depth
- Base of freshwater sands 2225' 2250'

9. Is this a critical well according to the definition on the reverse side of this form? Yes No

The proposed work is as follows:

- MIRU, install and test BOPE
- Cleanout to greatest possible depth 5065'
- Cement from greatest possible depth to 3918' NO 3850'
- Fill hole with 72% mud from TOC to 2450'
- Shoot cavity shot @ 2575' OK
- Cement from 2410'-2575' inside and outside of pipe NO 2375'
- Fill hole with mud from TOC to surface
- Cut and retrieve 8-5/8" casing from 70'
- Cement from 70' to 6'
- Weld plate on casing stub

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address P O Box 16007
(Street)
Long Beach CA 90807
(City) (State) (Zip)
Telephone Number (310)
(Area Code) (Number)

North Side Oil Corp.
(Name of Operator)
By Steve Graner, President
(Print Name)
[Signature]
(Signature) 9/12/96
(Date)

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgement or upon written request of an operator. This written request shall contain justification for such an exception.

2. 13-3/8" cmt @ 759'; 8-5/8" cmt @ 4016' (WSO); 5-1/2" cmt @ 5475' top @ 3950'; perf 4869' WSO; perf 4018'-5395'; perfs plugged 5065'-5415' and 5456'-5475'.

RECEIVED

SEP 12 1996

DIVISION OF OIL, GAS
& GEOTHERMAL RESOURCES
LONG BEACH

NORT IDE OIL COMPAI

NWLBU 8-2

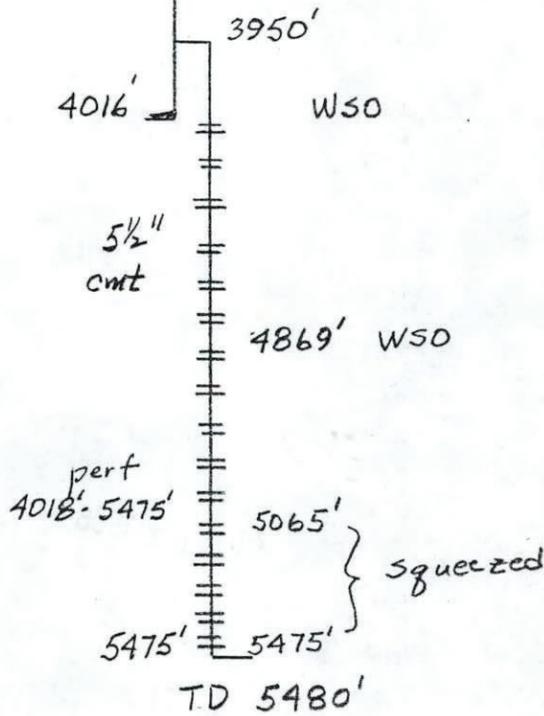
API No. 037-09793

13"
46#C
cmt
350sks
759

8 5/8"
32#36#
cmt
400sks

BFW 2225'

Top of cement-csg- 2911'



RECEIVED

SEP 12 1996

GEOTHERMAL RESOURCES
LONG BEACH

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

DIVISION OF OIL AND GAS

CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Petro Resources, Inc. Well No. NWLBU 8-2
 API No. 037-09793 Sec. 13, T. 4S, R. 13W, S.B. B.&M.
 County Los Angeles Field Long Beach

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OGI00)		Producing - Oil <input checked="" type="checkbox"/>	Water Disposal <input type="checkbox"/>
History (Form OGI03)	<u>3-15-84</u>	Idle - Oil <input type="checkbox"/>	Water Flood <input type="checkbox"/>
Core Record (Form OGI01)		Abandoned - Oil <input type="checkbox"/>	Steam Flood <input type="checkbox"/>
Directional Survey		Drilling - Idle <input type="checkbox"/>	Fire Flood <input type="checkbox"/>
Sidewall Samples		Abandoned - Dry Hole <input type="checkbox"/>	Air Injection <input type="checkbox"/>
Other		Producing - Gas <input type="checkbox"/>	Gas Injection <input type="checkbox"/>
Date final records received		Idle - Gas <input type="checkbox"/>	CO ₂ Injection <input type="checkbox"/>
Electric logs:		Abandoned - Gas <input type="checkbox"/>	LPG Injection <input type="checkbox"/>
		Gas-Open to Oil Zone <input type="checkbox"/>	Observation <input type="checkbox"/>
		Water Flood Source <input type="checkbox"/>	
		DATE	
		RECOMPLETED <u>2/15/84</u>	
		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 OGI59 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

UPDATE CENTER 5/30/84

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED HO 5/9/84

RELEASE BOND

Date Eligible _____
 (Use date last needed records were received.)

MAP AND MAP BOOK NC

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 8-2, Sec. 13, T. 4S, R. 13W, SB. B. & M.
A.P.I. No. 037-09793 Name Joe D. Rose Title Agent
Date March 14, 19 84 (Person submitting report) (President, Secretary or Agent)

Signature 

4200 Easton Dr., Bakersfield, CA 93309 Suite #16 (Address) (805) 323-4118 (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

2/14/84	SD @ 4085. Perf 4018-4055 w/4 jhpf.
2/15/84	Put on production.

RECEIVED

MAR 15 1 3 PM '84

OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS
Report on Operations

Joe D. Rose, Agent

PETRO RESOURCES, INC.

4200 Easton Drive, Suite 16

Bakersfield, CA 94309

Long Beach,

Calif.

March 22, 1984

Your operations at well NWLBU 8-2, API No. 037-09793
Sec. 13, T. 4S, R. 13W, S.B. B. & M. Long Beach Field, in Los Angeles County,
were witnessed on 2-15-84 by G. Muggelberg, Engineer, representative of
the supervisor, was present from 0810 to 0820. There were also present Joe Rose,
Agent

Present condition of well: 13-3/8" cem 761'; 8-5/8" cem 4016' WSO; 5 1/2" cem 3950'-5475',
perf 4869' WSO, perf 4118'-4228', 4640'-4700', @ int 4835'-4945', @ int 5165'-5245'
& 5345'-5395'. TD 5480'. Plugged w/ cem 5456'-5475' & 5415'-5065'.

The operations were performed for the purpose of inspecting the blowout prevention equipment
and installation.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED
Low pressure valve on kill line.

CONTRACTOR: Graner Oil Co.

GM:mh

cc: Update

M. G. MEFFERD
State Oil and Gas Supervisor

R
Deputy Supervisor

V. F. Gaede

DIVISION OF OIL AND GAS
BLOWOUT PREVENTION EQUIPMENT MEMO

R 2-21-84
T **184-507**

Operator Petro Resources, Inc. Well NWLBU 8-2 Field Long Beach County L.A.

VISITS: Date 2-15-84 Engineer G. Muggelberg Time 0810 to 0820 Operator's Rep. Joe Rose Title Agent
2nd _____ to _____

Casing record of well: 1 3/8" cem 761'; 2 3/8" cem 4016' WSD; 5 1/2" cem 3950'-5475'; perf 4869' WSD;
perf 4118'-4228', 4640'-4700', @ int 4935'-4945', @ int 5165'-5245' & 5345'-5395'. TD 5480'.
Plugged w/cem 5456'-5475' & 5415'-5065'.

OPERATION: Testing (inspecting) the blowout prevention equipment and installation.
DECISION: The blowout prevention equipment and its installation on the 8 3/8" casing are approved.

REQUIRED
BOPE CLASS: II 2M

Proposed Well Opns: alter casing MPSP: _____ psi
Hole size: _____ " fr. _____' to _____', _____" to _____' & _____" to _____'

CASING RECORD (BOPE ANCHOR STRING ONLY)					Cement Details			Top of Cement																																																																																																																																																																																																																																																																																																																				
Size	Weight(s)	Grade(s)	Shoe at	CP at				Casing	Annulus																																																																																																																																																																																																																																																																																																																			
BOP STACK					a	b	a/b	TEST DATA																																																																																																																																																																																																																																																																																																																				
API Symb.	Ram Sz.	Mfr.	Model or Type	Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Rec. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.																																																																																																																																																																																																																																																																																																															
Rd	2 3/8"	Shaffer	E	6	3000	-																																																																																																																																																																																																																																																																																																																						
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1103-181

DEFICIENCIES—TO BE CORRECTED

None

DEFICIENCIES—CORRECTED

① Low pressure valve on kill line

CONTRACTOR

Graner Oil Co.

PERMIT TO CONDUCT WELL OPERATIONS

412
(field code)
03
(area code)
00
(new pool code)
00
(old pool code)

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Drive, Suite 16
Bakersfield, CA 94309

Long Beach, California
February 8, 1984

Your _____ proposal to alter casing in well NWLBU 8-2,
A.P.I. No. 037-09793, Section 13, T. 4S, R. 13W, S.B. B. & M.,
Long Beach field, Northwest Extension area, Alamitos pool,
Los Angeles County, dated --, received 1-31-84 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. Well killing fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
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 INSPECT THE INSTALLED BLOWOUT PREVENTION EQUIPMENT PRIOR TO COMMENCING DOWN-HOLE OPERATIONS.

NOTE: A crew drill may be required at the time of the blowout prevention equipment inspection.

RCM:mh

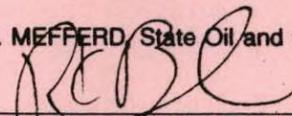
cc: Update

BLANKET BOND

Engineer Richard C. Manuel

Phone (213) 590-5311

M. G. MEPPERD, State Oil and Gas Supervisor

By 
V. F. Gaede, Deputy Supervisor

A copy of this report 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.

0/5

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

OG107 (8/79)

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD114	OGD121
Blanket	2-2-84	2-2-84

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well NWLBU 8-2, API No. 037-09793
(Well designation)
 Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 5480
- Complete casing record, including plugs and perforations
 8-5/8 @4016. 5-1/2 3950-5475. 13-7/8 @759
 Perf 5165-5205, 5220-5245, 5345-5395 Cmt plug 5415-5065
 Perf 4640-4700, 4835-4845, 4870-4945
 Perf 4118-4228, sand fill @4306 (May, 1967)

- Present producing zone name Alamitos; Zone in which well is to be recompleted Alamitos
- Present zone pressure ± 1200 psi; New zone pressure ± 1200 psi
- Last produced 7/67 16 1000 0
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)
 (or)
 Last injected -not- _____
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure, psig)

The proposed work is as follows:

- Check btm-clean out sand to below 4100.
- Perf 4018-4055
- POP.

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address 4200 Easton Drive #16
(Street)
Bakersfield, Calif. 93309
(City) (State) (Zip)
 Telephone Number (805) 323-4118

Petro Resources, Inc.
(Name of Operator)
 By Joe D. Rose
(Print Name)

(Signature) (Date)

DIVISION OF GAS

Notes of Inspection in Howards W-8

FOR DIVISION USE ONLY

RECEIVED
JAN 31 1 18 PM '84
DIV. OF 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 Sun Exploration & Production Co.	Date 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 5-2 (037-00397)	NWLBU 8-2 (037-09793)
NWLBU 5-3 (037-09796)	NWLBU 8-3 (037-06496)
NWLBU 5-4 (037-09797)	NWLBU 8-4 (037-06415)
NWLBU 6-1 (037-09788)	NWLBU 8-7 (037-22512)
NWLBU 6-2 (037-09789)	NWLBU 9-2 (037-13525)
NWLBU 9-3 (037-09791)	NWLBU 9-4 (037-00392)
NWLBU 9-5 (037-00142)	NWLBU 9-6 (037-00393)

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

Date of transfer, sale, assignment, conveyance, or exchange May 1, 1983	New owner Petro Resources, Inc.	Type of organization Corp.
	Address 4200 Easton Drive, Suite 16 Bakersfield, CA 94309	

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

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

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

Old operator new status (status abbreviation) PA	Remarks
--	---------

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor V. F. Gaede	Signature <i>Richard V. Manuel</i>
--------------------------------------	---	---------------------------------------

PA - Producing Active	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
NPA - No Potential, Active	Form OGD121	CP	7-7-83	Map and book	137	7/12/83
PI - Potential Inactive	Form OGD140	NONE		Notice to be cancelled		
NPI - No Potential, Inactive	New well cards	CP	7-7-83	Bond status		
Ab - Abandoned or No More Wells	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.

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
p.m.c. 11/1/79

RWS:sc

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

cc: Update Center
EDP
Conservation Committee

By Richard W. Stahl /or
Acting Deputy Supervisor
R. A. Ybarra

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)	"Flood Control" 6 (037-00393)				
"Amebco" 2 (037-09789)	"Oil Operators" 1 (037-09792)				
"Flood Control" 2 (037-13525)	"Oil Operators" 2 (037-09793)				
"Flood Control" 3 (037-09791)	"Oil Operators" 3 (037-06496)				
"Flood Control" 4 (037-00392)	"Oil Operators" 4 (037-06415)				
"Flood Control" 5 (037-00142)	"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	Type of organization Corporation			
	Address 23928 Lyons Avenue Newhall, CA 91321	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				
Deputy Supervisor for M. B. Albright		Signature <i>Eleanor Rieker</i>			
OPERATOR STATUS ABBREVIATIONS					
PA - Producing Active	FORM AND RECORD CHECK LIST				
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials Date
PI - Potential Inactive	Form OGD121			Map and book	FR 12-16-78
NPI - No Potential Inactive	Form OGD148			Notice to be posted	
Ab - Abandoned or No More Wells	New well cards			Send status	
	Well records			EDP files	
	Electric logs			ara	
	Production records			cc: EDP Update	
				Conservation Committee	
				Update Center	

(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

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. 3. E. & N.**

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. Kusser
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"	

Form 10

CLERK

RECEIPT FOR

Date Received 11-19-59 Form 100 101 103 10 New Well Records

Elec. Log Radio Log Subsequent Work

Direct. Surv. Other Data History Well Summary
(100)

Location Drillers Log
(101)

 Core Record
(101)

Elevation Clerk Scott History
(103)

Prod. Repts. Clerk Elec. Log

COMPLETED PRODUCING ON 10-27-59 ENGINEER

Other

ABANDONED ON

BOND Blanket Release Date Elig. 150b

End Prem. year Release Requested Superseded

Aband. Redrill

HOLD BOND Reason Deepen

 Plug

Data Needed Alter Csg.

 Final Letter Eng. RC Abandon

Ed

DIVISION OF OIL AND GAS
UNION OIL COMPANY

CASING RECORD

10

Oil Operators #2

WELL NO. _____

Long Beach

History of Oil or Gas Well
REPAIR REPORT

(FIELD)
Los Angeles

Port. Hoist - Contract

See below

(COUNTY)
13 4-S 13-W S.B.

(TOOLS)
October 26, 1959

SEC. _____ T. _____ R. _____ B. & M. _____

(PERIOD ENDING)

DIVISION OF OIL AND GAS
(NOTE INEFFECTIVE CASING)
RECEIVED

NOV 1 9 1959

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS
				<p><u>CHARGE:</u> LR-AFE 59359, Job 539</p> <p><u>PROPOSED WORK:</u> Add perforations in the Alamitos ^{INGLEWOOD, CALIFORNIA} Zone.</p> <p><u>PRODUCTION BEFORE REPAIR:</u> 7 Gross - 6 Net - 21.8° - 12.1%</p> <p><u>ZERO POINT FOR THIS JOB:</u> 1' above derrick floor.</p> <p><u>CASING RECORD AT START OF WORK:</u> 13-3/8" C 759' 8-5/8" C 4016' WSO. 114' 6-5/8" H 4105' incl. 90' pfs., pulled. 1525' 5-1/2" G 5475'. Splice test OK. Bullet pf & plgd. 5165-5205', 5220-5245', 5345-5395'. Test holes 4869' OK. Bullet pf 4640-4700', 4835-4845', 4870-4945'. Perf & Repf 4915-4945'.</p> <p><u>CASING RECORD AT COMPLETION OF WORK:</u> 13-3/8" C 759' 8-5/8" C 4016' WSO 114' 6-5/8" H 4105' incl. 90' pfs., pulled. 1525' 5-1/2" G 5475'. Splice test OK. Bullet pf & plgd., 5165-5205', 5220-5245', 5345-5395'. Test holes 4869' OK. Bullet pf 4118-4228', 4640-4700', 4835-4845', 4870-4945'. Pf & repf 4915-4945'.</p>
1	10-20	5480	Plug 5065	Contractor moved in and strung up 2 new tubing lines. Pulled rods and pump. Rigged to pull tubing. Could not get twist out of line. Strung 4 lines.
1	10-21	"	"	Pulled tubing. Strung in with 2-5/8" Cavins sand pump and found top of sand fill at 4995'. Ran in 4-1/2" impression block - stopped at 4995'. Tried to break off 8-5/8" production head - unable to do so.
1	10-22	"	"	Ran 8-5/8" washer cup on 2 joints of 2-1/2" tubing. Backed out 8-5/8" production riser. Replaced with new 8-5/8" production riser. Pulled and laid down 2 joints of tubing and 8-5/8" washer. Installed blow-out preventer.
1	10-23	"	"	Gun perforated 5-1/2" casing from 4228-4118' with two 1/2" bullets per foot. Used B-J wire line equipment. Fluid level at start 4450' - at finish 1200'. Very good blow of gas. Had approximately 400' of sand fill from 4900' to 4500'. Cleaned out to 4880' with 2-5/8" Cavins sand pump going through bridge.
	10-24			Crew off.
	10-25			" "
	10-26	"	"	Ran 2-5/8" Cavins sand pump and cleaned out sand from 4720' to 4780'. Laid down excess tubing. Ran tubing. Laid down excess rods. Ran rods and pump. Spaced pump. Loaded out tools. Fluid level at 700'.

NAMES OF DRILLERS/HEAD WELL PULLERS:
Terminal Drilling Co., - Contractor

Vaughn S. Meyer
DISTRICT ENGINEER

DIVISION OF OIL AND GAS
UNION OIL COMPANY

CASING RECORD

WELL NO. Oil Operators #2
Long Beach
(FIELD)
Los Angeles
(COUNTY)
SEC. 13, T. 4-S, R. 13-W.S.B. B. & M.

History of Oil or Gas Well
REPAIR REPORT

Port. Hoist - Contract
(TOOLS)
November 8, 1959
(PERIOD ENDING)

13-3/8" C 759'
8-5/8" C 4016' WSO
Field 11-1 6-5/8" W 1105' line - 901' pf.
1525' 5-1/2" C 5475' Splice test
OK. Bullet pf & plg 5165-5205',
5220-5245, 5245-5295'. WSO 4869'
Bullet pf 4118-4228, 4640-4700, 4835-
4845', 4870-
(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS	PRODUCTION DATA				Remarks	
					Hrs	Gross	Net	Cut		Grav.
	1959									
1	10-27	5480	Plug 5065	Spooled tubing line off of derrick. Loaded out tools. Contractor moved out.						
	10-27				-					Mvd in & assembled large pumping unit.
	10-28				16	289	29	90.0		4
	10-29				24	502	15	97.0		4
	10-30				24	579	12	98.0		3
	10-31				24	576	12	98.0		3
	11-1				24	593	12	98.0		3
	11-2				24	583	15	97.0		3
	11-3				24	581	15	97.0		3
	11-4				24	597	24	96.0	22.8	3
	11-5				24	583	17	97.0	22.3	3
	11-6				24	591	18	97.0	22.3	3
	11-7				24	590	18	97.0	22.3	3
	11-8				24	583	23	96.0	22.3	3

DIVISION OF OIL AND GAS
RECEIVED
NOV 19 1959
INGLEWOOD, CALIFORNIA

NAMES OF DRILLERS/HEAD WELL PULLERS:
Terminal Drilling Co. - Contractor

Vaughn S. Mayer
DISTRICT ENGINEER

COMPLETED PRODUCING ON 10-27-59

ABANDONED ON _____

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P. 159-886

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

Inglewood 3, Calif.
October 21, 1959

DEAR SIR:

Your _____ proposal to alter casing Well No. "Oil Operators" 2,
Section 13, T. 4 S, R. 13 W S B B. & M., Long Beach Field, Los Angeles County,
dated Oct. 19, 1959, received Oct. 20, 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.

5-1/2" cem. 3950'-5475', perf. at intervals 5395'-5165', perf. 4869', W.S.O.,
plugged with cement 5480'-5456', 5417'-5065'.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth. 5480' Plug 5065'
2. Complete casing record.
13-3/8" C 759'
8-5/8" C 4016' WSO
114' 6-5/8" H 4105' - incl. = 90' - pfa., pulled.
1525' 5-1/2" C 5475'. Splice test OK.
Bullet pf & plgd 5165-5205', 5220-5245', 5345-5395'.
Test holes 4869' OK
Bullet pf 4640-4700', 4835-4845', 4870-4945'.
Repf. 4915-4945'.

3. Last produced.	<u>Sept. 1959</u>	<u>6 B/D</u>	<u>21.8°</u>	<u>12.1%</u>
	(Date)	(Net Oil)	(Gravity)	(Cut)

PROPOSAL

"The proposed work is as follows:

1. Pull rods and tubing.
2. Check hole open to top of plug at 5065'.
3. Check condition of 5-1/2" liner with impression blocks.
4. Perforate 5-1/2" casing from 4118-4228' with two 1/2" bullets per foot.
5. Check hole open to top of plug at 5065'.
6. Run rods and tubing.
7. Test on production."

DECISION

THE PROPOSAL IS APPROVED.

RC:omh
cc Vaughn S. Moyer

E. H. MUSSER, State Oil and Gas Supervisor

By *John C. Baird*, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

OCT 20 1959

INGLEWOOD, CALIFORNIA

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.

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 #2
(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. 5480' Plug 5065'
- Complete casing record.
13-3/8" C 759'
8-5/8" C 4016' WSO
~~114-6-5/8" H 4105' incl. 90' pfs., pulled.~~
1525' 5-1/2" C 5475'. Splice test OK.
Bullet pf & plgd 5165-5205', 5220-5245', 5345-5395'.
Test holes 4869' OK
Bullet pf 4640-4700', 4835-4845', 4870-4945'.
Repf. 4915-4945'.

3. Last produced. Sept. 1959 (Date) 6 B/D (Net Oil) 21.8° (Gravity) 12.1% (Cur)

The proposed work is as follows:

- Pull rods and tubing.
- Check hole open to top of plug at 5065'.
- Check condition of 5-1/2" liner with impression blocks.
- Perforate 5-1/2" casing from 4118-4228' with two 1/2" bullets per foot.
- Check hole open to top of plug at 5065'.
- Run rods and tubing.
- Test on production.

MAP	MAP BOOK	CARDS	BOND	FORMS 114 121	Union Oil Company of California (Name of Operator)
			<u>Blanket</u>	<u>EB EB</u>	

By V.S. Moyer R.J.H.
Vaughn S. Moyer Division Engr.

STENOGRAPHER

RECEIPT FOR

Date Received 10-21-53 Form 100 101 103

Elec. Log _____ Radio Log _____

Direct. Surv. _____ Other Data History

Location _____

Elevation _____ Steno. PCW

ENGINEER

BOND Blanket Release _____ Date Elig. _____ 150b _____

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

HOLD BOND _____ Reason _____

Data Needed _____ none

Final Letter _____ Eng. JLW 11-2-53

: Well Summary _____

: Drillers Log _____

: Core Record _____

: History (2)

: Elec. Log _____

: Radio Log _____

: Direct.Surv. _____

: Redrill _____

: Deepen _____

: Plug

: Alter Csg.

: Abandon _____

Unsequed OKJLW

DIVISION OF OIL AND GAS
UNION-OIL COMPANY
History of Oil or Gas Well
REPAIR REPORT

Oil Operators #2
WELL NO. Long Beach
(FIELD) Los Angeles
(COUNTY)
SEC. 13 T. 4-S R. 13-W S.B. B. & M.

Prod. Hoist - Contract
(TOOLS) September 10, 1953
(PERIOD ENDING)

See below

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS
	1953			CHARGE: B.R.-A.F.E. 51528 Job 240-D
				<p><u>PROPOSED WORK:</u> Plug with cement to 5100'. Test for WSO at 4869'. Gun perf 4870-4945'. Test on production.</p> <p><u>PRODUCTION BEFORE REPAIR:</u> June, 1953 - 4 B/D Net - 23.8° - 83.0% ZERO POINT for this job: 12" above derrick floor.</p>
				<p><u>Casing Record at Start of Work:</u> T.D. 4105' Deepen 5480' 13-3/8" C 759' 8-5/8" C 4016' WSO. 11-5/8" H 4205' line 90' pf. Pulled 1525' 5/8" C 5475'. Splice test OK Bullet pf 5165-5205', 5220-5245', 5345-5395'.</p> <p><u>Casing Record at Completion of Work:</u> T.D. 5480'. Plug 5065'. 13-3/8" C 759'. 8-5/8" C 4016' WSO. 11-5/8" H 4205' line 90' pf. Pulled 1525' 5/8" C 5475'. Splice test OK. Bullet perf & plgd 5165-5205', 5220-5245', 5345-5395'. Test holes 4369' OK. Bullet perf 4640-4700', 4835-4845', 4870-4945'. Repair 4915-4945'.</p>
1	9-2	5480	Plug 5456	CALIFORNIA PRODUCTION SERVICE, Contractor, moved in and rigged up. Pulled rods and tubing.
1	9-3	"	" 5270	<u>CLEAN OUT AND PLUG</u> Bailed with 3-1/8" Cavins sand pump from 5390' to 5415'. Ran 4-3/4" impression block to 5415'. Fluid level at 4060'. Dumped 16 sacks of Blue Diamond construction cement in 4 hours from 5415' to 5270'.
1	9-4	"	" 5065	Found top of cement at 5263'. Fluid level at 3950'. Dumped 18 sacks of Blue Diamond construction cement. Fluid level 3910'. Top of cement at 5065'. Witnessed by Division of Oil and Gas representative - OK.
1	9-5	"	" "	Found fluid level at 3905'.
1	9-8	"	" "	<u>WSO & PERFORATING</u> Ran in with McCullough 3-1/2" o.d., 4 shot gun. Checked fluid level at 3920'. Shot four 1/2" holes at 4869'. Let set four hours (7:15 a.m. to 11:15 a.m.) No fluid rise. Water shut-off witnessed and approved by Division of Oil and Gas representative. Ran in with 3-1/2" o.d., 20 shot gun and perforated 5-1/2" casing with four 1/2" holes per foot from 4945' to 4870'. Fluid level after perforating 3870'.
1	9-9	"	" "	Checked fluid at 3840', fill at 5047'. Cleaned out sand with 3-1/3" Cavins sand pump from 5047' to 5065'. Ran tubing.
1	9-10	"	" "	Ran rods. Put well on production. California Production Service, Contractor, moved out.

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

Vaughn S. Moyer,

DIVISION OF OIL AND GAS

OCT 21 1953

011 Operators #2

UNION OIL COMPANY of California
History of Oil or Gas Well

CASING RECORD
LOS ANGELES, CALIFORNIA

WELL NO. _____

Long Beach

REPAIR REPORT

See next page.

(FIELD)
Los Angeles

Prod. Hoist - Contract

(COUNTY)
13 4-S 13-W S.B.

(TOOLS)
September 26, 1953

SEC. _____ T. _____ R. _____ B. & M. _____

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS					
				Hours	Gross	Net	Cut	Remarks	
	1953	5480	Plug 5065						
				<u>PRODUCTION DATA</u>					
	9-10			16	24	0	100.0		
	9-11			24	6	3	50.0		
	9-12			24	6	5	20.0		
	9-13			24	6	5	20.0		
	9-14			24	6	1	80.0		
	9-15			-					Pulled rods & tubing. Ran bailer.
	9-16			15	31	6	80.0		Lowered tubing 61'
	9-17			24	12	4	66.0		Pumped off
	9-18			24	7	1	80.0		
	9-19			24	6	1	30.0		
	9-20			24	6	1	80.0		
	9-21			24	6	5	13.0		
	9-22			24	6	5	13.0		
	9-23			24	5	4	13.0		
1	9-24	"	"	<p><u>CALIFORNIA PRODUCTION SERVICE, Contractor, moved in and rigged up. Pulled rods and tubing. Found fluid level at 3680', no fill. 4 3/4" impression block went to bottom - 5065'.</u></p>					
1	9-25	"	"	<p><u>PERFORATING</u> <u>Ran in with 4" o.d., Lane-Wells A-2 gun perforator and checked fluid level at 3750' at 7:45 a.m. Shot four 1/2" holes per foot from 4945' to 4915'. Very light gas blow on 5th run. Fluid level at 3710'. at 10:20 a.m. Perforated from 4845' to 4835' with light to medium gas blow. Perforated from 4700' to 4640' with light to moderate blow. Total holes shot - 400. Fluid level 3450' at 1:50 p.m. Net fluid rise 300'. No fill.</u></p>					
1	9-26	"	"	<p>Checked fluid level at 3445', no fill. Ran tubing and rods. Put well on production. <u>California Production Service, Contractor, moved out.</u></p> <p><u>Well completed pumping in the Brown Zone.</u></p>					

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

Vaughn S. Moyer,

DISTRICT ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
UNION OIL COMPANY

13-3/8" C CASING RECORD 2 5/8" C 4016'
WSO. ~~224-6-5/8" H-4105'-inc~~
~~90'-pf Pulled. 1525' 5 1/2" C~~
~~5175'. Splice test OK. Bullet~~
~~pf & plgd 5265-5285', 5220-~~
~~5245', 5245-5295'. Test holes~~
~~4869' OK. Bullet pf 4640-4700'.~~

WELL NO. Oil Operators #2
Long Beach
(FIELD)
Los Angeles
(COUNTY)
SEC. 13 T. 4-S R. 13-W S.B. B. & M.

History of Oil or Gas Well
REPAIR REPORT

Prod. Hoist - Contract

(TOOLS)
October 6, 1953

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)
~~4835-4845', 4870-4975'.~~
Repf 4915-4945'.

NO. TOURS	DATE	DEPTH	EFFECTIVE DEPTH	REMARKS																																																												
	1953	5480	Plug 5065																																																													
				PRODUCTION DATA																																																												
				<table border="1"> <thead> <tr> <th>Hours</th> <th>Gross</th> <th>Net</th> <th>Cut</th> <th>Remarks</th> </tr> </thead> <tbody> <tr><td>9-26</td><td>39</td><td>0</td><td>100.0</td><td></td></tr> <tr><td>9-27</td><td>47</td><td>6</td><td>87.0</td><td></td></tr> <tr><td>9-28</td><td>12</td><td>10</td><td>15.0</td><td></td></tr> <tr><td>9-29</td><td>9</td><td>8</td><td>12.0</td><td></td></tr> <tr><td>9-30</td><td>9</td><td>6</td><td>3.5</td><td></td></tr> <tr><td>10-1</td><td>8</td><td>7</td><td>8.0</td><td></td></tr> <tr><td>10-2</td><td>7</td><td>6</td><td>8.0</td><td></td></tr> <tr><td>10-3</td><td>7</td><td>6</td><td>8.0</td><td></td></tr> <tr><td>10-4</td><td>7</td><td>6</td><td>8.0</td><td></td></tr> <tr><td>10-5</td><td>6</td><td>6</td><td>2.8</td><td></td></tr> <tr><td>10-6</td><td>6</td><td>6</td><td>3.0</td><td></td></tr> </tbody> </table>	Hours	Gross	Net	Cut	Remarks	9-26	39	0	100.0		9-27	47	6	87.0		9-28	12	10	15.0		9-29	9	8	12.0		9-30	9	6	3.5		10-1	8	7	8.0		10-2	7	6	8.0		10-3	7	6	8.0		10-4	7	6	8.0		10-5	6	6	2.8		10-6	6	6	3.0	
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DIVISION OF OIL AND GAS
RECEIVED

OCT 21 1953

LOS ANGELES, CALIFORNIA

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

Vaughn S. Moyer,

DISTRICT ENGINEER

bg
fs

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off
(BAILING)

No. T 153-1095

Los Angeles 15 Calif. September 16 1953

Mr. W S Eggleston

Los Angeles 17 Calif.

Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

Your well No. "Oil Operators" 2, 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 September 8, 1953. Mr. W C Bradford, Inspector, designated by the supervisor,
was present as prescribed in Sec. 3222 and 3223, Ch. 93, Stat. 1939; there were also present G Bradford, Hoist Operator
M Barr, Helper

Shut-off data: 5-1/2 in. 15 lb. casing was cemented at 5475 ft. on October 29, 1941
in 7-5/8 hole with 275 sacks of cement of which xxx sacks was left in casing.
Casing record of well: 13-3/8" cem. 759'; 8-5/8" cem. 4016', W.S.O.; 5-1/2" cem. 3950'-
5475', perf. 5395'-5345', 5245'-5220', 5205'-5165', four 1/2" holes 4869', W.S.O.,
plugged with cement 5480'-5456' and 5417'-5065'
Reported total depth 5480 ft. ~~Drilled~~ Plugged with cement from 5417 ft. to 5065 ft. Cleaned out to 5065 ft. for this test.
~~Casing test data:~~

THE INSPECTOR ARRIVED AT THE WELL AT 12:30 P.M. AND MR. BRADFORD REPORTED THE FOLLOWING:

1. The 5-1/2" casing was shot-perforated with four 1/2" holes at 4869'.
2. The fluid level was at 3910' at 7:00 a.m. on September 8, 1953.

THE INSPECTOR NOTED that no fluid entered the well while standing 5-1/2 hr. for test.

The test was completed at 1:30 p.m.

THE 5-1/2" SHUT-OFF AT 4869' IS APPROVED.

WCB:ES

cc Long Beach
Mr C F Bowden

R. D. BUSH, State Oil and Gas Supervisor

By R. M. Halling, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-1094

Los Angeles 15 Calif. September 16 1953

Mr. W S Eggleston
1109 Union Oil Building Calif.
Los Angeles 17
Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

Operations at your well No. "Oil Operators" 2 Sec. 13, T. 4 S, R. 13 W, S B B. & M.,
Long Beach Field, in Los Angeles County, were witnessed by
G C Hazenbush, Inspector, representative of the supervisor,
on September 4, 19 53. There was also present A Fowks, Foreman
W Bradford, Well Puller

Casing Record <u>13-3/8" cem. 759'; 8-5/8" cem. 4016'</u> , <u>W.S.O.; 5-1/2" cem. 3950'-5475', perf. 5395'-5345'</u> , <u>5245'-5220', 5205'-5165'; T.D. 5480', plugged with</u> <u>cement 5480'-5456', 5417'-5065'.</u>	Junk <u>xxx</u>
--	-----------------

The operations were performed for the purpose of testing the location and hardness of a cement
plug placed from 5417' to 5065', in the process of plugging back.

The inspector arrived at the well at 3:00 p.m. and Mr. Fowks reported:

1. The hole could not be cleaned out below 5417' because of a hard sand plug.
2. On September 3 and 4, 1953, 34 sacks of cement was dumped into the hole beginning at 5417'.

THE INSPECTOR NOTED that the bailer could not be spudded below 5065', and brought up a sample of set cement.

The test was completed at 4:00 p.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 5065' ARE APPROVED.

GCH:ES

cc Long Beach

Mr C F Bowden Div Eng
Union Oil Co of California
9645 S Santa Fe Springs Rd
Whittier California

R. D. BUSH
State Oil and Gas Supervisor

By R. H. Walling Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P. 153-1075

Los Angeles 15 Calif. August 25 1953

Mr. W S Eggleston
1109 Union Oil Building
Los Angeles 17 Calif.

121

Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

"Oil Operators"

Your proposal to plug & alter casing Well No. 2

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

dated Aug. 20 1953, received Aug. 21 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 from 5480'-5456'.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth.
4105' Deepen 5480'
2. Complete casing record.
13-3/8" C 759'
8-5/8" C 4016' W.S.O.
~~11 1/2" C 4105' including 90' perforations.~~ Pulled.
1525' 5-1/2" C 5475', splice test O.K.
Bullet perforate 5165-5205, 5220-5245, 5345-5395'.

3. Last produced. June 1953 4 B/D 23.8° 83.0%
(Date) (Net Oil) (Gravity) (Cut)"

PROPOSAL

"The proposed work is as follows:

1. Plug with cement to 5100'.
2. Test for water shut-off at 4869'.
3. Gun perforate interval 4870' to 4945'.
4. Test on production."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS

1. The location and hardness of cement plug at 5100'.
2. A test of the effectiveness of the 5-1/2" shut-off at 4869'.

JLW:OH

cc Long Beach

Records Filed
100
101
102 ✓ 10-21-53 JLW
E. Log

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

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Mussey Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED

DIVISION OF OIL AND GAS

AUG 21 1953

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, CALIFORNIA

Whittier

Calif.

August 20, 1953 19

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 #2
(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.

4105' Deepen 5480'

2. Complete casing record.

13-3/8" C 759'

8-5/8" C 4016' W.S.O.

~~11-6 5/8" H 4105' including 90' perforations. Pulled.~~

1525' 5-1/2" C 5475', splice test O.K.

Bullet perforate 5165-5205, 5220-5245, 5345-5395'

3. Last produced.

June 1953

(Date)

4 B/D

(Net Oil)

23.8°

(Gravity)

83.0%

(Cut)

The proposed work is as follows:

1. Plug with cement to 5100'.
2. Test for water shut-off at 4869'.
3. Gun perforate interval 4870' to 4945'.
4. Test on production.

Plug + alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
			<i>Blanket</i>		

UNION OIL COMPANY OF CALIFORNIA

(Name of Operator)

By

C. F. Bowden

C. F. Bowden, Division Engineer

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED

DEC 10 1941

LOS ANGELES, CALIFORNIA

Subsequent Work Report

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS NO. 2, 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 January 11, 1938

Reference to file of data, was filed. SIGNED *Henry E Winter*
Date December 5, 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.

Date

1941

CASING RECORD AT BEGINNING OF WORK

13-3/8" C 759'
8-5/8" C 4016' O.K.
114' of 6-5/8" L 4105' incl 90' perf.

CASING RECORD AT PRESENT

13-3/8" C 759'
8-5/8" C 4016' O.K.
1525' of 5-1/2" C 5475'
Gun Perforated 5165-5205'
5220-5245'
5345-5395'

<u>DEPTH</u>	<u>EFF. DEPTH</u>	<u>REMARKS</u>
10-6	4105'	Rig up rotary to deepen. Pulled rods and tubing.
10-8	4115'	Cleaned out and deepened with oil circulation through 6-5/8" liner to 4115'. Took hold of liner and jarred out same.
10-10	4120'	Drilled to 4120 and set Eastman removable whipstock.
10-28	5480'	Directionally drilled hole to 5480'. Location at "S" point 463' north and 50' east, loss 31', location at 5480' is 438' north and 40' east, loss 31'.
10-29	5480'	Cemented 1525.19' of new 5-1/2" J-55 15-1/2# Bethlehem seamless casing at 5475', including Burns plain liner hanger at top, 275 sacks of Slow Colton cement, Halliburton Cementing Company.
11-1	5480' Plug 5456'	Found top of cement at 5245'. Cleaned out cement to 5456'. Bailed fluid from surface. Could not lower below 1050'.
11-2	5480' Plug 3945'	Recemented splice with 100 sacks (50 Victor Hi-Temperature and 50 sacks Slow Colton), through drill pipe and Halliburton shoe squeeze tool set at 3911'. Displaced all of cement out of drill pipe. Final pressure 1375#. Cleaned out cement from 3905-3945'.

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

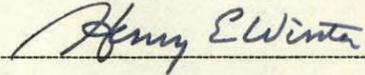
DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH
Well No. OIL OPERATORS NO. 2, Sec. 13, T. 4-S, R. 13-W, SB SB 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 January 11, 1938, was filed.

SIGNED _____


Date December 5, 1941Title 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

1941

<u>DEPTH</u>	<u>EFF. DEPTH</u>	<u>REMARKS</u>
11-4	5480'	Plug 5456' Cleaned to 5456' (cement from 3945-3970'). Bailed fluid to 3000', stood eight hours. Splice test OK by Division of Oil and Gas. No rise.
11-6	5480'	Replaced mud with oil and perforated 5-1/2" casing with Lane-Wells gun, 1/2" holes, as follows 5165-5205', 81 holes 5220-5245', 49 holes 5345-5395', 100 holes
11-7		Ran 5313' 2-1/2" tubing and rods and put on pump. Pumping unit broke after pumping 18 barrels of oil.
11-8		Repairing pumping unit.
11-9		Repairing pumping unit.
11-10		Repairing pumping unit.
11-11		Production - 116 net, 2.5% cut, P 15 hours
11-12		" 88 net, 23.8° gravity, 2.8% cut, P 24 hours
11-22		" 74 net, 25.4° gravity, 4.6% cut, P 24 hours
11-30		" 56 net, 25.4° gravity, 2.4% cut, P 24 hours

November Production - 1,317 barrels in 20 days.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

16
DIVISION OF OIL & GAS
RECEIVED
JAN 20 1942
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 NO. 2 Sec. 13, T. 4S, R. 13W, SB B. & M.

FORMATIONS PENETRATED BY WELL

Henry E. White

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
4800	4802				Took 0.8 core of oil stained, medium, coarse gray sand with a basket while fishing for pieces of a disc bit.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-40317

Los Angeles, Calif. November 7, 19 41

Mr. W. S. Aggleston,
Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 2 Sec. 13, T. 4S., R. 13W., S. B. B. & M.,
Long Beach Field, in Los Angeles County, were witnessed by
James T. Carriel, Inspector, representative of the supervisor,
on November 4, 19 41. There was also present A. G. Hilton, Engineer,
and F. Dezarn, Drilling Foreman.

Casing Record <u>13-3/8" cem. 759', 8-5/8" cem. 4016'</u>	Junk <u>None</u>
<u>W. S. O.; 5-1/2" cem. 3950'-5475'. T. D. 5480',</u>	
<u>plugged with cement 5480'-5456'.</u>	

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 6:10 P. M. AND MR. HILTON REPORTED THE FOLLOWING:

1. All of the 6-5/8" casing was pulled out of the hole.
2. A 7-5/8" rotary hole was drilled from 4105' to 5480'.
3. On October 29, 1941, 1525' of 5-1/2" - 15 lb. casing was cemented at 5475' with 275 sacks of Slow Colton cement.
4. The 8-5/8" - 5-1/2" casing splice tested wet.
5. On November 2, 1941, the 8-5/8" - 5-1/2" casing splice was cemented with a Halliburton cementer set at 3911' with 100 sacks of Cement. It was estimated that 84 sacks of cement was forced away under a 1375 lb. final pressure.
6. Cement was drilled out of the 8-5/8" and 5-1/2" casings from 3905' to 3970' (equivalent to 16 sacks) and the casing was cleaned out to 5456'.
7. The fluid in the hole was bailed to 3000' at 10:00 a. m. on November 4, 1941.

THE INSPECTOR NOTED THE FOLLOWING:

1. No fluid entered the well while standing 8 hr. for test.
2. The hole was open to 5456'.

The test was completed at 7:05 p. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT fluid does not have access to the well between the 8-5/8" and 5-1/2" casings.

cc- H. E. Winter

Long Beach
JTC:G

R. D. BUSH

State Oil and Gas Supervisor

By E. H. Musser Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-36864

Los Angeles, Calif. September 15, 19 41.

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" 2,
Section 13, T. 4 S., R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County,
dated Sept. 11, 19 41, received Sept. 12, 19 41, 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 4105
- 13-3/8 cmtd. 759
- 8-5/8 cmtd. 4016 O.K.

114- 6-5/8 landed 4105 inc. 90 perforated.

It is desired to deepen to the R S & T Zones

Last Production August, 1941 - 1481 oil - 29224 water - 31 days."

PROPOSAL:

"The proposed work is as follows:

1. Pull 6-5/8 liner
2. Deepen well to 5450
3. Cement blank 5-1/2 liner 5450 to 3950
4. Test splice at 3950 by Division of Oil and Gas
5. Perforate R S & T Zones at intervals
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.
4. The formations to be left back of the 5-1/2" casing shall be mudded in a manner consistent with good drilling practice.
5. This division shall be kept informed of the results of tests, after each stage of perforating, and will designate any additional requirements at that time.

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

R. D. Bush

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Messer Deputy

DIVISION OF OIL & GAS
RECEIVED
SEP 12 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. September 11, 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 #2
(Cross out unnecessary words)

Long Beach, 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 4105
13-3/8 cmtd. 759
8-5/8 cmtd. 4016 O.K.
114-6-5/8 landed 4105 inc. 90 perforated

It is desired to deepen to the R S & T Zones
Last Production August, 1941 - 1481 oil - 29224 water - 31 days

The proposed work is as follows:

1. Pull 6-5/8 liner
2. Deepen well to 5450
3. Cement blank 5-1/2 liner 5450 to 3950
4. Test splice at 3950 by Division of Oil and Gas
5. Perforate R S & T Zones at intervals
6. Test on production

Deepen

Month	Year	Days	Production

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

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

No. 2792

DIVISION OF OIL AND GAS
LOS ANGELES

Calif. 1/13 1938

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. 4S

R. 13 W - Long Beach, B. & M., as herewith enumerated by well numbers.

Logs _____

History _____

Core record _____

Subsequent work else by Oil Operators 2 - 12/11/37

R. D. BUSH, State Oil and Gas Supervisor

[Signature] By [Signature] Deputy

DUPLICATE

DIVISION OF OIL AND GAS
RECEIVED
JAN 14 1938
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BEACH

Well No. OIL OPERATORS 2, Sec. 13, T. 4-S, R. 13-W, S.D. B. & M.

Signed Henry E. Winter

Date Jan. 11, 1938 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:

13-3/8" C 759'
8-5/8" C 4016'
114' 6-5/8" L 4105', Inc 90' perf.

1937	Depth	Remarks
11-13	78	Spudded in and drilled with 17" rotary bit.
11-17	761	Drilled with 17" rotary bits to 761'. Cemented new 13-3/8" 45.97# National seamless slipjoint casing at 759' with 350 sx Monolith Velo cement. Cementing operations witnessed and approved by Stolz, of Division of Oil & Gas.
11-19	1070	Found top of cement at 747'. Cleaned out cement and plugs and drilled ahead with 12-1/4" bits.
12-2	3859	Drilled with 12-1/4" bits to 3859'. Ran Schlumberger Survey.
12-5	4034	Drilled with 12-1/4" bits to 3985' and cored with 7-5/8" core barrels to 4034'. Ran Schlumberger Survey. Reamed out core hole with 12-1/4" bit to 4016'. Cemented 8-5/8" 32# Grade "C" (1963' of 36# Grade "C" on bottom) 8-thread rounded seamless casing at 4016' with 400 sx cement (200 sx Victor oil well and 200 sx Victor construction).
12-10	4075	Found top of cement at 3989. Drilled out cement and plugs to 4016 and cleaned out to 4021. Water shut off test on 8-5/8" casing at 4016 witnessed and approved by Stolz, of Division of Oil & Gas. Drilled and cored to 4075'.
12-12	-4105	Cored to 4105. Ran Schlumberger Survey. Landed 114' of 6-5/8" 25# Grade "C" casing at 4105', including 90' of 16-2-6 120-mesh Kobe perforated on bottom. Bailed to 1200' and well started flowing by heads.
12-14	4105	Bailed hole clean of mud and sand. Landed 3" upset tubing at 3649'. Ran rods and installed pumping unit. Put well on pump 5:00 P.M. 12-14-37.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR UNION OIL COMPANY OF CALIFORNIA FIELD LONG BRACH

Well No. OIL OPERATORS 2, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed Henry E. Winter

Date Jan. 11, 1938 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.

PRODUCTION TEST DATA:

1937	<u>Gross</u>	<u>Net</u>	<u>Grav.</u>	<u>Qtz</u>	<u>Status</u>	<u>Bean</u>	<u>T.P.</u>	<u>G.P.</u>	<u>Remarks</u>
12-14	391	203	23.8	48.0	P 10				On pump 5:00 P.M.
12-15	869	854	"	1.7	P 24				
12-16	873	862	"	1.3	"				
12-17	1757	1625	"	7.5	"				Well started to flow in morning.
12-18	0								Sanded up. Killed well. Rigged up to pull.
12-19									Pulled rods and tubing. Ran bailer and found hole open to bottom (4105) Landed 3" upset tubing at 3935.
	355	220	23.8	38.0	P 6	36/64"	260	275	
12-20	1482	1402	"	5.4	P 24	"	330	680	Well started flowing without swabbing
12-21	1129	1109	"	1.8	P 24	"	"	650	
12-22	984	974	"	1.0	"	"	320	600	
12-23	968	958	"	"	"	"	300	510	
12-24	1053	1042	"	"	"	57/64	125	400	
12-25	1117	1101	"	1.4	"	1 1/2"	50	275	
12-26	1093	1082	"	1.0	"	1 1/2 & 1 1/2	40	275	
12-27	1027	1015	"	1.2	"	"	35	260	
12-28	979	966	"	1.3	"	"	35	260	
12-29	973	963	"	1.0	"	"	25	260	
12-30	963	955	"	0.8	"	"	25	260	
12-31	938	929	"	1.0	"	"	25	270	

No daily gas
Dec gas 18,573 MCF

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
 RECEIVED
 JAN 14 1938
 104 W. WASHINGTON

San Oil Co. LOG OF OIL OR GAS WELL

Operator Union Oil Company of California Field Long Beach

Well No. Oil Operators 2 NW180th 2 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Location 523' W'ly along the center line of Bixby Road projected from the center of the Pacific Electric Railway Right of Way and thence 45' S'ly at 90° Elevation 56.97

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 Jan. 11, 1938

Signed Henry E Winter

Title District Engineer

(Engineer or Geologist)

(Superintendent)

(President, Secretary or Agent)

Commenced drilling Nov. 13, 1937 Completed drilling Dec. 14, 1937 Drilling tools Cable Rotary

Total depth	Plugged depth	GEOLOGICAL MARKERS	DEPTH
4105		Wilbur shale	3597-3662
		Alamitos shale	3795-3860
		"H"	3982
		"I"	4017

Commenced producing Dec. 14, 1937 (date) Flowing/gas lift/pumping 1st 4 days (cross out unnecessary words)

Initial production 17
 Production after 36 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
854	23.8	1.7			
929	23.8	1.0		25	270

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	759	Surface	45.97#	New	Smls.	"C"	17"	350	
8-5/8	4016	Surface	32# & 36#	New	Smls	"C"	12-1/4"	400	
6-5/8	4105	3091	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	4015 ft.	4105 ft.	120 mesh	16	6	Koba
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths Schlumberger from 759 to 4104. (Attach Copy of Log)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 14 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 2 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

Jenny E. Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	708	708			Sand and gravel
708	770	62			Shale
770	1171	401			Sand and streaks of shale
1171	1215	44			Shale and streaks of sand
1215	1255	40			Sand and streaks of shale
1255	1277	22			Shale
1277	1425	148			Sand and streaks of shale
1425	1451	26			Shale
1451	1535	84			Sand and streaks of shale
1535	1560	25			Shale
1560	2017	457			Sand and streaks of shale
2017	2044	27			Shale
2044	2153	109			Sand and streaks of shale
2153	2170	17			Shale
2170	2235	65			Sand and streaks of shale
2235	2420	185			Shale and streaks of sand
2420	2526	106			Shale
2526	2877	351			Shale and streaks of sand
2877	2941	64			Shale
2941	2975	34			Shale and streaks of sand
2975	2978	3			Shell
2978	3075	97			Sand and streaks of shale
3075	3105	30			Shale
3105	3245	140			Sand and streaks of shale
3245	3247	2			Shell
3247	3336	89			Sand and streaks of shale
3336	3388	52			Shale and streaks of sand
3388	3390	2			Shell
3390	3480	90			Shale and streaks of sand
3480	3710	230			Sand and streaks of shale
3710	3713	3			Shell
3713	3798	85			Sand and streaks of shale
3798	3896	98			Shale and streaks of sand
3896	3899	3			Shell
3899	3983	84			Sand and shells (See core record)
3983	4101	18			Shale and streaks of sand (See core record)
4101	4105	4			Hard sand

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 CALIFORNIA Field LONG BEACH

Well No. OIL OPERATORS NO. 2 Sec. 13, T. 4-S, R. 13-W, SB B. & M.

FORMATIONS PENETRATED BY WELL

Henny E Winter

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
4105	4558	453	Drilled		Shale and sand
4558	4659	101	"		Sand and shale
4659	4749	90	"		Sand and hard shale
4749	4825	76	"		Shale
4825	4853	28	"		Sand and shale
4853	4957	104	"		Sand
4957	5000	43	"		Shale
5000	5297	297	"		Sand
5297	5360	63	"		Shale
5360	5385	25	"		Sand
5385	5404	19	"		Shale
5404	5471	67	"		Sand
5471	5480	9	"		Shale
<u>No cores taken.</u>					

Note:- see supplementary sheet rec'd. 1/20/42 for core taken between 4800-4802 E.P.W.

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

RECEIVED
JAN 14 1938

FIELD Long Beach COMPANY Union Oil LEASE Oil Operators WELL #2
LOCATION 36.97 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
1937												
12-3	1	7-5/8" Soli	3965	3983	12.0			12.0		Firm to hard, fine to medium gray sand. Streak of brown shale 4.3 from top. <u>Dip 25°</u>		
12-4	2	7-5/8" Soli	3983	4001	13.0	6.9	0.9			Hard dark brown shale, sandy in spots <u>Dip 16°</u> . Fractures of 35° and 37° Soft fine brown oil sand. Good odor Hard dark brown shale. Top 0.2 badly fractured Firm, soft, medium brown oil sand. Shale partings in top 0.2 Hard dark brown shale. Fracture of 43° Firm soft fine to medium brown oil sand Hard dark brown shale		
12-4	3	7-5/8" Soli	4001	4019	16.5	0.8	0.3			Hard dark brown shale Soft fine brown oil sand Hard dark brown silty shale, inclusions of fine brown oil sand in bottom 0.7 Firm soft fine brown oil sand Hard dark brown sandy shale Firm soft fine brown oil sand Hard dark brown shale Firm to hard fine brown oil sand with streaks and inclusions of hard brown shale Firm soft fine brown oil sand Hard dark brown shale Firm soft fine brown oil sand Hard dark brown shale, sandy in spots Streaks of fine brown oil sand 2.1 from bottom. <u>Dip 15°</u>		
12-4	4	7-5/8" Soli	4019	4034	14.1	14.0	2.5			Firm fine brown oil sand with inclusions of hard brown shale. Good odor and dark amber cut Hard dark brown shale Firm, soft, fine to medium brown oil sand. Good odor and dark amber cut Firm soft coarse brown oil sand Firm soft fine brown oil sand Hard dark brown shale Firm soft medium to coarse brown oil sand. Good odor and dark amber cut Firm soft fine to medium brown oil sand. Good odor and dark amber cut		
						0.2	5.2					
						1.3						
						0.4						
						0.2						
						3.1						
						2.8						
						0.4	13.7					

UNION OIL COMPANY OF CALIFORNIA

CORE RECORD

Long Beach

FIELD Union Oil

COMPANY Oil Operators

LEASE 2

WELL

LOCATION

ELEVATION

14

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
1937			4034	4060						Drilled interval <i>Henry E Winter</i>		
12-10	5	7-5/8" Soil	4060	4076	8.1		0.7			Firm soft fine to medium brown oil sand		
						0.1			0.2	Hard calcareous sandstone shell		
							3.0			Hard dark brown shale		
										Firm soft, medium brown oil sand. Good odor and dark amber cut		
						0.2				Hard dark brown shale		
							1.6			Firm soft fine brown oil sand laminated with mud		
						0.1				Hard dark brown shale		
							0.3			Firm soft fine dark brown argillaceous oil sand. Partings of dark brown shale		
						1.0				Hard dark brown shale with streaks of fine brown oil sand		
						0.3				Hard grayish-brown bentonitic shale laminated with fine brown oil sand		
						0.2				Hard dark brown shale		
							0.1			Fine grayish-brown oil sand. Light amber cut		
						0.3				Shale with streaks of oil sand. Broken and badly burnt		
						2.2	5.7		0.2			
12-11	6-	7-5/8" Soil	4076	4088	11.2		0.1			Firm soft fine brown oil sand		
						7.7	0.5			Hard brown silty shale with inclusions of fine gray sand. Streaks of fine brown oil sand. Fracture of 25° & 29°		
							0.2			Firm soft fine brown oil sand. Good odor and dark amber cut		
						0.2				Hard dark brown sandy shale		
						0.3				Firm soft fine brown oil sand		
						0.3				Hard dark brown sandy shale		
						0.4	0.1		0.5	Hard slightly calcareous shale shell		
										Hard dark brown sandy shale with streaks of fine brown oil sand		
							0.2			Firm soft fine dark brown argillaceous oil sand		
						0.7	0.1			Hard dark brown sandy shale with streaks of fine brown oil sand. Fracture of 24°		
						9.2	1.5		0.5			

UNION OIL COMPANY OF CALIFORNIA
CORE RECORD

Long Beach FIELD Union Oil COMPANY Oil Operators LEASE 2 WELL LOCATION 06.07 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
1937												
12-11	7	7-5/8" Soli	4088	4105	14.4	0.1				Henry E. Winter Hard dark brown sandy shale		
									0.3	Hard, slightly calcareous, sandy shale shell		
						0.3				Hard brown sandy shale		
							5.2			Firm soft fine to medium brown oil sand		
										Good odor and dark greenish-brown cut		
						0.4	0.1			Hard sandy brown shale with streaks of fine brown oil sand		
									0.4	Firm fine dark brown argillaceous oil sand		
						0.2				Hard dark brown sandy shale		
							0.3			Firm soft fine brown oil sand		
						0.3				Hard brown sandy shale		
							0.4			Firm soft fine brown oil sand		
						0.1				Hard brown silty shale		
							0.5			Firm soft, fine dark brown oil sand. Good odor and dark greenish-brown cut		
										Dip 15°		
						0.7				Hard dark brown silty shale		
							0.7			Soft, loose, fine brown oil sand		
						0.7				Hard dark brown broken shale		
						0.1	0.8			Soft loose, fine to medium brown oil sand with streaks and inclusions of brown shale		
						0.1	0.5			Firm medium brown oil sand with streak of brown shale		
						0.3				Hard brown sandy shale		
							1.0			Firm soft fine to medium brown oil sand		
										Good odor and dark greenish-brown cut		
										Dip 15°		
						0.7	0.2			Hard dark brown silty shale with streak of fine brown oil sand		
						4.0	10.1		0.3			
										Total depth 4105 ft.		

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T-1-33546

Los Angeles, Calif. December 27, 1937.

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your well No. "OIL OPERATORS" 2, 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 10, 1937. Mr. F. C. Stolz,

Time and date

designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there

were also present R. W. Rampton, Engineer, and

J. Kewish, Toolpusher.

Location of water tested above 4016' and normal fluid level not determined.

Depth and manner of water shut-off: { 2053 ft. of 8-5/8 in. 32 lb. } casing was { 12-5-37 cemented } in shale Formation
{ 1963 ft. of 8-5/8 in. 36 lb. }

at 4016 ft. with 400 sacks Victor oil well and construction cement by casing method.

Water string was landed in 12 1/2" rotary hole.

Size, rotary or cable tool

Casing record of well 13-3/8" cem. 759'; 8-5/8" as above.

Reported total depth of hole 4034 ft. Hole bridged from xx ft. to xx ft. Hole cleaned out to 4021 ft. for this test.

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

At See below oil bailed to XXXX ft., drilling fluid { bailed } to XXX ft.
Time and date { swabbed }

At " " top of oil found at XXXX ft., top of fluid found at XXXX ft.
Time and date

THE INSPECTOR ARRIVED AT THE WELL AT 9:15 A. M. AND MR. RAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 27' 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 4005'.
5. The tester valve was opened at 8:51 a. m. and remained open for 33 minutes. During this interval there was a medium air blow for 4 minutes, a gas blow by heads for 15 minutes and a light blow for the remaining 11 minutes.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 40' of medium drilling fluid and 1890' of oil and gas was found in the drill pipe above the tester, equivalent to 0.6 and 27.0 bbl.
 2. The recording pressure bomb chart showed that the tester valve was open for 33 minutes.
- The test was completed at 11:40 a. m.

THE SHUT-OFF IS APPROVED.

cc- H. E. Winter
Long Beach

FCS:OH

R. D. BUSH

State Oil and Gas Supervisor

By

E. Augustin

Deputy

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, Depty. Supv.,
Division of Oil & Gas,
Los Angeles, Calif.

RE: Oil Operators #2

Dear Sir:

The elevation of the Union Oil Company
well "Oil Operators #2" at Long Beach (Sec. 13, 4S, 13W)
is 56.97 U.S.G.S.

The corrected location is as follows:

523 ft. Westerly along the center line of
Bixby Road projected from the center line
of the Pacific Electric Railway Right of Way
and thence 45 ft. Southerly at 90°

Our records have been corrected
accordingly.

Very truly yours,

Henry E Winter
District Engineer.

HEW:S

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-33385

Los Angeles, Calif. November 22, 1937

Mr. Ed Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

121

DEAR SIR:

Operations at your well No. "OIL OPERATORS" 2 Sec. 13, T. 4S., R. 13W., S. B. B. & M.,
Long Beach Field, in Los Angeles County, were witnessed by
F. C. Stolz, representative of the supervisor,
on November 17, 19 37. There was also present H. E. Winter, Engineer,
and J. Kewish, Drilling Foreman.

Casing Record 13-3/8" cem. 759'. T. D. 761'. Junk --

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 3:00 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. A 17" rotary hole was drilled from the surface to 761'.
2. 766' of 13-3/8" - 45.97 lb. casing was run into the hole to 759'.

THE INSPECTOR NOTED THE FOLLOWING:

1. The 13-3/8" casing was cemented at the reported depth of 759' with 350 sacks of Monolith Velo cement.
2. The cement was displaced with 674 cubic feet of mud fluid.
3. The final pressure was 500 lb.

The operations were completed at 4:15 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

FCS:G

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

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

037-09793

General Exploration Co.

Santa Fe Springs Cal. Oct. 28, 19 37

MR. E. Huguenin,

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

Pi-31536

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 #2, Sec. 13, T. 4-S,

R. 13-W, S.B. B. & M., Long Beach Oil Field Los Angeles County. *ELB*

Lease consists of 523 ft. westerly along the center line of Bixby Road projected from the center line of the Pacific Electric Railway Right of Way and thence

The well is 580' N'ly along center line of San Antonio from the center line of Del Mar and feet N. or S., and thence 115' N'ly at right angles feet E. or W. from thence 115' N'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 feet. ~~(Approx. 55')~~ 56.97

45 ft. southerly at 90°. 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~~ ~~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 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 426-87

By Henry E. Winter
District Engineer

Reference to file of well

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

*Wildcat - Wall.
Topog - 257.*

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

*Wildcat
Book
ELB
10/29/37*

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

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

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

REPORT OF WELL ABANDONMENT

Long Beach California

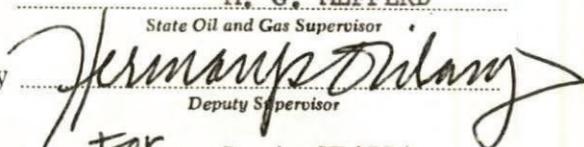
October 7, 1981

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Your report of abandonment of well NWLBU 8-5
(Name and number)
A.P.I. No. 037-22295, Section 13, T. 4S, R. 13W, S. B. B. & M.
Long Beach field, Los Angeles County,
dated 9-2-81, received 9-4-81, has been
examined in conjunction with records filed in this office, and we have determined that all of
the requirements of this Division have been fulfilled.

HO:dh

cc: Update
Los Angeles County Planning Comm.
Fire Prevention Bureau
L. A. County Assessor
Dept. of Bldg. & Safety
Fire Dept.
Conservation Committee
Blanket Bond

M. G. MEFFERD
State Oil and Gas Supervisor
By 
Deputy Supervisor
For R. A. YBARRA

DIVISION OF OIL AND GAS

CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Sun Oil Company Well No. MWLBW 8-5
 API No. 037-22295 Sec. 13 T. 4S, R. 13W, S.B. B.&M.
 County _____ Field Long Beach

RECORDS RECEIVED

DATE

- Well Summary (Form OGD100) 9-4-81 (2)
- History (Form OGD103) 9-4-81 (2)
- Core Record (Form OGD101) _____
- Directional Survey _____
- Sidewall Samples _____
- Other _____
- Date final records received _____
- Electric logs: _____

STATUS

STATUS

- | | | | |
|----------------------|-------------------------------------|----------------|-------|
| Producing - Oil | _____ | Water Disposal | _____ |
| Idle - Oil | _____ | Water Flood | _____ |
| Abandoned - Oil | _____ | Steam Flood | _____ |
| Drilling - Idle | _____ | Fire Flood | _____ |
| Abandoned - Dry Hole | <input checked="" type="checkbox"/> | Air Injection | _____ |
| Producing - Gas | _____ | Gas Injection | _____ |
| Idle - Gas | _____ | CO2 Injection | _____ |
| Abandoned - Gas | _____ | LPG Injection | _____ |
| Gas-Open to Oil Zone | _____ | Observation | _____ |
| Water Flood Source | _____ | | |
| DATE | <u>8/22/81</u> | | |
| 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 need
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 10-7-81
4. Form OGD159 (Final Letter) 10-7-81
5. Form OGD150b (Release of Bond) _____
6. Duplicate logs to archives _____
7. Notice of Records due (F-OGD170) _____

surface inspection 8-17-81 skye, ng

UPDATE CENTER 10-14-81

surface insp 5 return T, H0

Final Letter - 9/17/81

RECORDS NOT APPROVED

Reason: need surface insp

RECORDS APPROVED

RELEASE BOND

Date Eligible _____
 (Use date last needed records were received.)

MAP AND MAP BOOK maps 137 & book 8-17-81
81-4965

WELL SUMMARY REPORT

Operator SUN OIL COMPANY (Delaware)		Well NW1BU #8-5			
Field Long Beach		County Los Angeles	Sec. 13	T. 4 S	R. & M. 13 W SB
Location (Give surface location from property or section corner, street center line and/or California coordinates) 534.81' N & 762.8' W frm intersection of C/L of San Antonio Dr. & Del Mar Ave.			Elevation of ground above sea level 45.5		

Commenced drilling (date) 7/30/81	Total depth			Depth measurements taken from top of:	
	(1st hole) 4965'	(2nd)	(3rd)	<input type="checkbox"/> Derrick Floor	<input type="checkbox"/> Rotary Table
Completed XXXXXX P&A 8/20/81	Present effective depth N/A			Which is \pm 10 feet above ground	
Commenced producing (date) N/A	Junk None			GEOLOGICAL MARKERS	
<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas lift				N/A	
Name of producing zone(s) Lower Alamitos	Formation and age at total depth Brown				

	Clean Oil (bbl per day)	Gravity Clean Oil	Percent Water including emulsion	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	N/A					
Production After 30 days						

CASING RECORD (Present Hole)								
Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)
13 3/8"	Surface	662'	48#	K-55	New	17 1/2"	903 Sacks Cl "G" cmt.	-

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)
None

Was the well directionally drilled? If yes, show coordinates at total depth
 Yes No **415' N & 115' W**

Electrical log depths
N/A

Other surveys
N/A

In compliance with Sec. 3215, Division 3 of the Public Resources Code, 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.

Name L.B. Carroll, Jr.		Title District Engineer	
Address P.O. Box 55060		City Valencia	Zip Code 91355
Telephone Number 805-257-6200	Signature <i>L.B. Carroll Jr</i>	Date 9/3/81	

by Jtg

RECEIVED

SEP 4 11 51 AM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

SUBMIT IN DUPLICATE
 RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SUN OIL COMPANY (DELAWARE) Field or County Long Beach
 Well North Wilmington Long Beach Unit 8-5, Sec. 13, T4S, R13W, SB. B. & M.
 A.P.I. No. 037-22295 Name L. B. CARROLL, JR. Title Agent
 Date 9/2/81, 1981 (Person submitting report) (President, Secretary or Agent)

Signature L. B. Carroll Jr.

P. O. Box 55060, Valencia, California 91355 (805) 257-6200
 (Address) (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	
1981	
7/30	5826 TVD/"V" SANDS/IR/ATLANTIC OIL/LA CA/WI 1.00/ SURF LOC: 534.81' N & 762.8' W FRM INTERSECTION OF C/L OF SAN ANTONIO DR & DEL MAR AVE; BHL: 415' N & 115' W FRM SURF LOC/ 475 SD SH D (420) DRLG/MIRU ATLANTIC OIL CO RIG #3/SPUD @ 7 AM/ DRLG 17½" HOLE FRM 55-65'/SHUT DN 2½ HR WAITING ON DP ELEVATORS/ INST SOUND PROOFING ARND MUD PMPs/DRLG 17½" HOLE FRM 65-475'/ MW 68/VIS 55/
7/31	665 SD SH D (190) WOC/DRLG 17½" HOLE FRM 475-665/PREP HOLE TO RUN CSG/RAN 18 JTS (669) 13-3/8" 48#, H40, ST-C w GUIDE SHOE @ 662, FLOAT CLR @ 622/HALIB PMP 903 CF CL "G" CMT w 2% CaCl ₂ /DISP w 573 CF DRLG MUD/DID NOT BMP PLUG/CIP @ 1:55 AM/225 CF CMT RTNS TO SURF/ WOC 4 HRS/SURV @ 665 ¼°/MW 70/VIS 47/
8/3	8-1/665 SD SH RIH w 12¼" BIT/CUT OFF CONDUCTOR & CLN CELLAR/WELD ON 13-3/8" CSG HD/INST & TST BOE TO 1000 PSI, OK/MU BHA & RIH/ MW 66/VIS 42/8-2/1239 SD GR D (574) DRLG/RIH w 12¼" BIT & TAG CMT @ 343/TST CSG & BOE TO 1000 PSI, OK/WAIT ON DOG 1 HR/CO CMT FRM 343-622/TST CSG & BOE, OK/DRLG FLOAT, CMT & SHOE TO 662/DRLG 12¼" HOLE FRM 662-1239/MW 70/VIS 44/8-3/1768 SD SH D (529) DRLG/DRLG & DYNA DRL 12¼" HOLE FRM 1239-1768/SURV @ 1692 9°15' N40°30' W/TVD 1690.50/SEC. 23.26/N-21.10/E-10.94/MW 69/VIS 42/
8/4	2062 SD SH D (294) DRLG/DRLG & DYNA DRL 12¼" HOLE FRM 1768-2062/ SURV @ 2031 10°30' N37°W/TVD 2023.60/SEC.81.77/N-71.50/W-48.16/ MW 70/VIS 40/
8/5	2498 SD SH D (436) TRIP FOR DYNA DRL/DRLG 12¼" HOLE FRM 2062-2498/ SURV @ 2488 13°45' N32°W/TVD 2469.26/SEC.176.82/N-154.17/W-105.73/ MW 68/VIS 37/
8/6	2760 SD SH D (262) DRLG/DRLG & DYNA DRL FRM 2498-2760/SURV @ 2669' 12°30' N 08°30' W/TVD 2645.77/SEC.216.84/N-192.52/W-176.42/MW 68/ VIS 39/
8/7	3337 SD SH D (577) TRIP/DRLG 12¼" HOLE FRM 2760-3337/TRIP FOR BIT/ DRL PIPE VERY TIGHT/SURV @ 3307/10°30' N 05°30' W/TVD 3272.09/SEC. 336.52/N-313.02/W-130.54/MW 68/VIS 39/

DIVISION OF OIL & GAS
History of Well

NWLBU #8-5
Sec. 13, T13, R4S, SBB&M

Page: 2

1981

- 8/8 3524 SD SH D (187) TRIP FOR BHA/FINISH TRIP SERVICING ALL TOOL JTS/DRL 12 $\frac{1}{4}$ " HOLE FRM 337-3524/SURV @ 3518' 6 $^{\circ}$ 30'/N 0 $^{\circ}$ 30' W/ TVD 3480.77/SEC.366.91/N-343.87/W-133.02/MW 69/VIS 39/
- 8/9 3940 SD SH D (416) DRLG/DRLG 12 $\frac{1}{4}$ " HOLE FRM 3524-3940/SURV @ 3940 5 $^{\circ}$ /N 0 $^{\circ}$ 30' E/TVD 3900.77/SEC.406.94/N-384.81/W-135.14/MW 69/ VIS 38/
- 8/10 4040 SD SH D (100) DRLG/TRIP TO CHG TOOLS TO 8-3/4"/DRLG 8-3/4" HOLE FRM 3940-4028, SURV LINE BROKE, TRIP TO RETRIEVE SURV & LINE/DRLG 8-3/4" HOLE FRM 4028-4040/SURV @ 4028 4 $^{\circ}$ 30'/N 2 $^{\circ}$ 30' W/ TVD 3988.46/SEC.413.99/N-392.10/W-135.27/MW 68/VIS 40/
- 8/11 4432 SD SH D (392) REPR SWIVEL/DRLG 8-3/4" HOLE FRM 4040-4432/REPR SWIVEL 2 HRS/SURV @ 4390 3 $^{\circ}$ /N 17 $^{\circ}$ 30' E/TVD 4349.88/SEC.433.32/ N-412.11/W-135.46/MW 69/VIS 37/
- 8/12 4432 PREPNG RIG/REPR SWIVEL/TRIP FOR NEW BIT/REPR ROTARY CLUTCH/ REPR HOOK ON BLOCKS/MW 68/VIS 35/
- 8/13 4669 SD SH D (237) DRLG/COMPLETE THE RIG REPR/DRLG 8-3/4" HOLE FRM 4432-4669/SURV @ 4578' 1 $^{\circ}$ 45', N09 $^{\circ}$ E/TVD 4537.71/SEC.440.46/N- 419.95/W-133.88/MW 68/VIS 42/
- 8/14 4822 SD SH D (158) REAMING/DRLG 8-3/4" HOLE FRM 4669-4700/REPR RIG FOR 2 $\frac{1}{2}$ HRS/DRLG FRM 4700-4822/TRIP FOR BIT & BHA/REAM FRM 4690-4822/ SURV @ 4822, 0 $^{\circ}$ 30', N-39 $^{\circ}$ -E/TVD 4781.66/SEC.444.70/N-424.55/W-133.17/ MW 68/VIS 37/
- 8/15 4965 SD SH D (183) ATTMPT TO FREE STUCK PIPE/DRLG 8-3/4" HOLE FRM 4822-4965/LOST RTNS @ 4965/PU TO 4790; PIPE STUCK/WRK STUCK DP & PMP TOT OF 1700 BBLS MUD & LCM w NO RTNS/MW 68/VIS 30/
- 8/16 4965 SD SH FISHING DP/ATTMPT TO FILL HOLE;COULD NOT FILL/ MIRU DIA-LOG/RAN FREE POINT/FREE POINT SHOWD PIPE STUCK @ 703 & 826/PIPE FREE @ 638 INSIDE 13-3/8" SURF CSG/STG SHOT TOOL JT @ 638/ COULD NOT BACK OFF/RESHOT @ 638/BK OFF DP @ 638/PULLED 130,000# DN DP FRM 638-577/POH w DP/BTM JT COVERD w CMT/MU FISHING TOOLS & RIH w OVERSHOT, BMPR SUB, JARS, DC's/TAG FILL @ 538 w TOP OF FISH @ 638/CO FILL TO TOP OF FISH @ 638 w NO RTNS/ATTMPT TO GET OVR FISH/ PUSHD FISH DN HOLE/CK TO SEE FISHING TOOLS FREE, OK/TOP OF FISH @ 726; BTM @ 4878/MW 68/VIS 70/
- 8/17 4965 SD SH FISHING DP/ATTMPT TO WASH DN OVR 4" DP w 7-5/8" OVERSHOT TO 842 w NO RTNS/POH & LD FISHING TOOLS/RIH w 12 $\frac{1}{4}$ " BIT DC's & BMPR SUB/STPD @ 539/POH & MU 9-5/8" OVERSHOT, BMPR SUB, JARS, DC's & ACCELERATOR/RIH & WRK THRU TIGHT SPOT @ 539-542/CO TO 870 w NO RTNS/PREP TO CALIPER 13-3/8" CSG; POSSIBLY COLLAPSD OR PARTD/MW 70/ VIS 85/
- 8/18 4965 POH w IB/RIG UP DIA LOG & RUN CSG INSP LOG/CSG PARTED @ 544/ RIH w 1 CONE 12 $\frac{1}{4}$ " BIT, UNABL TO GET INTO CSG, RUN DN BESIDE 13-3/8 TO 677'/WAIT ON I.B./RUN 11 $\frac{1}{2}$ " IB TO 544, SET DN 10,000#/POH w IB/

DIVISION OF OIL & GAS
History of Well

NWLBU #8-5
Sec. 13, T13, R4S, SBB&M

Page: 3

1981

- 8/19 4965 PREPNG TO PMP TEMP BLOCK "60" PILL/RIH OPN ENDED TO 544'/
MIX & PMP 300 BBLs OF LCM, 200 BBLs w 27# PER BBL OF LCM, 100 BBLs
w 15-17# PER BBL OF LCM, NO RTNS/RIH w 10½" IB w 12½ STAB ABOVE IT,
TO 544/IB SHOWS CSG IS 5"± OUT IN HOLE/RIH OPN ENDED TO 544, PREP TO
MIX TEMP BLOCK "60"/
- 8/20 4965 PREPNG TO P&A/MX & PMP 60 BBLs OF TEMP BLOCK 61 @ 518/POH
WAIT 2 HRS, ATTEMPT TO FILL HOLE, HOLE WD NOT FILL/RIH TO 518,
PMP 30 BBLs OF TEMP BLOCK 61, POH/RIH w 4-3/4" SWEDGE, 1 JT
CROOKED 4" DP, 8-3/4" STAB ON 5 - 6" D.C./ATTEMPT TO GET INTO
SHIFTED CSG/UNABL TO DO SO/RUN 10-1/4" IB TO 544, POH IB SHOWS
CSG 4 - 5" INSIDE/LD ALL TOOLS & PREP TO P&A/
- 8/21 4965 TD WOC/w OPN ENDED DP @ 564, HALIB PMP 100 SX "G" CMT
w .25% THIX SET "A", .25% THIX SET "B", 25# PER SX GIL, ¼# PER SX
FLOCELE w 2% CaCl₂/WOC 4 HRS, RIH TO 564 NO PLUG/PMP 4, 50 SX PLUGS,
1 EVERY 2 HRS/WOC² FOR 4 HRS/RIH 541, PMP 50 CF FLO-CHECK, 100 SX
CMT PLUG/POH & WOC/
- 8/22 4965 TD, PSA ON 8-21-81/TAG CMT PLUG @ 301, WITNESS & APPRVD BY
D.O.G./SPOT CMT FRM 181-SURF/PULL BOP, CUT OFF WELL HD & CSG 5' BELOW
GRND LEVEL/RIG DN RIG PREP TO MOVE TO NWLBU #8-7/

RECEIVED

SEP 4 11 51 AM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS

Report on Operations

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Long Beach Calif.
September 14, 1981

Your operations at well NWLBU 8-5, API No. 037-22295,
Sec. 13, T4S, R. 13W S.B. B. & M. Long Beach Field, in Los Angeles County,
were witnessed on 8-21-81 by G. W. Stark, Engineer, representative of
the supervisor, was present from 0810 to 0940. There were also present D. Rodgers,
Drilling Foreman.

Present condition of well: 20" cem 56'; 13-3/8" cem 662', parted @ 544', Junk below 648'
TD 4965'. Plugged w/cem 548'-301' & 185'-8'+.

The operations were performed for the purpose of Witnessing the plugging operations in the
process of abandonment.

DECISION: APPROVED.

surface inspection 9-17-81 dhg/ny

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED
NONE

CONTRACTOR: Atlantic Oil Company

GWS:dh

cc: Update
EDP

M. G. MEFFERD

State Oil and Gas Supervisor

By *[Signature]*

Deputy Supervisor

R. A. YBARRA

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

158-598
17
191-883

Operator Sun Oil Company Well No. NWLBU 8-5
 API No. 037-22295 Sec. 13, T. 45, R. 13W, SB B&M
 Field Long Beach, County Los Angeles. On 8-21-81
 Mr. GW Stark, representative of the supervisor was present from 0810 to 0940
 There were also present D. Rodgers DF

Casing record of well: 20" cem 56'; 13 3/8" cem 662, parted @ 544', Junk
below 648'. TD 4965'. plugged w/ cem 548'-301' & 185'-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			

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	Engr.
<u>Existing Hole mud used to fill space 301-185'</u>						
<u>weight 72#cf vis 50 w/ lost circulation material Added.</u>						

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
<u>8/20/81</u>	<u>500 SX</u>	<u>DP @ 548</u>	<u>8/20/81</u>	<u>Reported by Rodgers.</u>	<u>301'</u>	<u>all dp wt</u>	<u>8-21-81 0830</u>	<u>GW Stark</u>
<u>8/21/81</u>	<u>100 SX</u>	<u>DP @ 185</u>	<u>0910</u>	<u>GW Stark</u>	<u>8'</u>	<u>visual</u>	<u>8-21-81 0940</u>	<u>GW Stark</u>

Deficiencies corrected
none

Deficiencies to be corrected
none.

Contractor Atlantic Oil Company

REPORT ON PROPOSED OPERATIONS

412
(field code)
03
(area code)
00
(pool code)

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Long Beach, California
August 31, 1981

Your _____ proposal to abandon well NWLBU 8-5,
A.P.I. No. 037-22295, Section 13, T. 4S, R. 13W, S. B. B. & M.,
Long Beach field, Northwest Extension area, - - - pool,
Los Angeles County, dated 8-20-81, received 8-21-81 has been examined in conjunction with records
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. All portions of the hole not plugged with cement shall be filled with clay base mud fluid having a minimum density of 72 lb/ cu ft and a minimum gel-shear strength of 25 lb/ 100 sq ft.
2. **THIS DIVISION SHALL BE NOTIFIED:**
 - a. To witness the placing, location and hardness of the cement plug from 648' to 440'.
 - b. To witness the placing of the cement surface plug .
 - c. To inspect and approve the clean-up of the well site before approval of abandonment will be issued.

HO:dh

cc: Update

Blanket Bond

M. G. MEFFERD, State Oil and Gas Supervisor

for By R. A. YBARRA, Deputy Supervisor

A copy of this report 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.

06 / Dry

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	121
8-24-81	Blanket	8-24-81	8-24-81

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 #8-5, API No. 037-22295, Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County, commencing work on August 20, 19 81.

The present condition of the well is:

1. Total depth: 4965' (8 3/4" Hole)
2. Complete casing record, including plugs and perforations:
13 3/8", 48#, H-40, ST&C csg shoe @ 662'; cmt'd w/903 CF CL 'G' cmt w/2% CaCl₂ 13 3/8" csg parted @ 540'; 4" DP Fish from 638' to 4790'
3. Last produced Never Produced
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)

or

4. Last injected Never Injected
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

5. Additional data for dry hole (show depths)
Well never logged or tested - stuck drill pipe
Oil or gas shows N/A
6. Stratigraphic markers: N/A
7. Formation and age at total depth: N/A
8. Base of fresh water sands: N/A

The proposed work is as follows:

- (1) RIH w/4" D P open-ended to 540'
- (2) Spot 300 sx of CL 'G' cmt w/0.25% Thix-set 'A', 0.25% Thix-set 'B', 25#/sx Gilsonite, 1#/sx Flocele, & 2% CaCl₂
- (3) Tag TOC @ 440' or higher
- (4) Spot column of 68PCF fresh water-gel mud to 100' from surface
- (5) Spot additional cement plug from 100' to surface
- (6) Cut off 13 3/8" casing
- (7) RDMO
- (8) Restore surface to original conditions

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 25322 West Rye Canyon Road
(Street)
Valencia California 91355
(City) (State) (Zip)
Telephone Number (805) 257-6200

Sun Production Company
(Name of Operator)
By [Signature] 8-20-81
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

RECEIVED

AUG 21 2 33 PM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS

Report on Operations

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Long Beach Calif.
September 14, 1981

Your operations at well NWLBU 8-5, API No. 037-22295,
Sec. 13, T. 4S, R. 13W, S. B. & M. Long Beach Field, in Los Angeles County,
were witnessed on 8-1-81 by W. E. Brannon, Engineer, representative of
the supervisor, was present from 0600 to 1100. There were also present D. Rodgers,
Drilling Foreman.
Present condition of well: 20" cem 56'; 13-3/8" cem 662'. TD 665'.

The operations were performed for the purpose of Testing the blowout prevention equipment
and installation.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED

1. Pressure guage was on kill line.
2. Pump unable to hold pressure above 500#.
3. Adjustable choke had slow leak.
4. Remote control box was not hooked up.
5. First test failed.

CONTRACTOR: Atlantic Oil Company

WEB:dh

cc: Update
Dispatcher Clerk

M. G. MEFFERD

State Oil and Gas Supervisor

By [Signature]

Deputy Supervisor

R. A. YBARRA

**DIVISION OF OIL AND GAS
BLOWOUT PREVENTION EQUIPMENT MEMO**

T 181-834

Operator Sun Oil Company Well NWLRLI 8-5 Field Long Beach County Los Angeles

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	<u>8-1-81</u>	<u>W.E. BRANNON</u>	<u>0600 to 1100</u>	<u>D. Rodgers</u>	<u>DF</u>
2nd	<u>8-1-81</u>	<u>" " "</u>	<u>1100 to 1300</u>	<u>" " "</u>	<u>"</u>

Casing record of well: 20" Cem 56'; 13 3/8" Cem 662' TD 665'

OPERATION: Testing (~~inspecting~~) the blowout prevention equipment and installation.
DECISION: The blowout prevention equipment and installation are approved.

Proposed Well Opns: drill MSPSP: _____ psi
Hole size: 24 " fr. 0 ' to 20 ', 17 1/2 " to 665 ' & _____ " to _____ ' REQUIRED
BOPE CLASS: III B3M

CASING RECORD (BOPE ANCHOR STRING ONLY)					Cement Details		Top of Cement	
Size	Weight(s)	Grade (s)	Shoe at	CP at			Casing	Annulus
<u>13 3/8</u>	<u>48#</u>	<u>A-51C</u>	<u>662</u>		<u>905cf</u>	<u>did not bump plug</u>	<u>3433</u>	<u>0</u>

BOP STACK						a	b	a/b	TEST DATA				
API Symb.	Ram Sz.	Mfr.	Model or Type	Size In.	Press. Rtg.	Date Last Overhaul	Gal. to Close	Rec. Time Min.	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>A</u>	<u>12</u>	<u>Hydril</u>	<u>GK</u>	<u>12</u>	<u>3000</u>							<u>8/1/81</u>	<u>1200</u>
<u>Rd</u>	<u>4</u>	<u>Shaffer</u>	<u>B</u>	<u>12</u>	<u>3000</u>							<u>8/1/81</u>	<u>1300</u>
<u>Rd</u>	<u>850</u>	<u>Shaffer</u>	<u>B</u>	<u>12</u>	<u>3000</u>							<u>Rpt b D. Rodgers</u>	<u>1000</u>

ACTUATING SYSTEM			
Accum. Unit(s)	Wkg. Press.	<u>1500 psi</u>	
Total Rated Pump Output	_____ gpm		
Distance From Well Bore	<u>75 ft.</u>		
Mfr.	Accum. Cap.	Precharge	
<u>1 Hydril</u>	<u>80 gal.</u>	<u>750 psi</u>	
<u>2</u>	<u>gal.</u>	<u>psi</u>	
CONTROL STATIONS			Elec. Hyd.
<input checked="" type="checkbox"/>	Manif. at accum. unit		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Remote at Drlr's stn.		<input checked="" type="checkbox"/>
Other: _____			
EMERG. BACKUP SYST.		Press.	Wkg. Fl.
<input checked="" type="checkbox"/>	<u>N2 Cyl No: 3 Tpe: G</u>	<u>12700</u>	<u>gal</u>
	Other:	<u>22400</u>	<u>gal</u>
		<u>32600</u>	<u>gal</u>
		<u>4</u>	<u>gal</u>
		<u>5</u>	<u>gal</u>
		<u>6</u>	<u>gal</u>

AUXILIARY EQUIPMENT						
	No.	Sz. (in)	Rated Press.	Connections		
				Weld	Flan.	Thrd.
<input checked="" type="checkbox"/>						
<input checked="" type="checkbox"/>						
<input checked="" type="checkbox"/>		<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>			<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>			<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>			<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>		<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>			<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>			<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>		<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>		<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>						
<input checked="" type="checkbox"/>						
<input checked="" type="checkbox"/>						
<input checked="" type="checkbox"/>						
<input checked="" type="checkbox"/>		<u>4</u>	<u>3000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>		<u>4</u>	<u>3000</u>			<input checked="" type="checkbox"/>

HOLE FLUID MONITORING EQUIPMENT			
	Alarm		Class
	Aud.	Vis.	
<input checked="" type="checkbox"/>			<u>A</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>B</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>B</u>
			<u>C</u>

REMARKS: _____

Hole Fluid Type	Weight	Storage-Pits
<u>Clay base mud</u>	<u>9.5#</u>	<u>270 Bbl</u>

DEFICIENCIES—TO BE CORRECTED NONE

DEFICIENCIES—CORRECTED

- 1- Pressure gauge was on Kill line
- 2- Pump unable to hold pressure above 500#
- 3- Adjustable choke had slow leak
- 4- Remote control box was not hooked up.
- 5- First test failed

CONTRACTOR Atlantic Oil Co

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

REPORT OF CORRECTION OR CANCELLATION

Long Beach, California

June 25, 1981

L. B. Carroll, Jr., Agent

SUN OIL COMPANY

25322 W. Rye Canyon Road

Valencia, CA 91355

In accordance with your notice of June 8, 1981

the following change pertaining to your well NWLBU 8-5 (037-22295),
Long Beach field, Los Angeles County,
Sec. 13, T. 4S, R. 13W, S.B. B. & M., is being made in our records:

The corrected location is _____

The corrected elevation is _____

Report No. _____, dated _____, has been
corrected as follows: _____

Your notice to _____ dated _____
(Drill, abandon, etc.)
and our report No. P _____, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

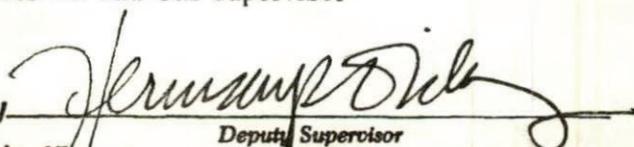
Other: Bottom Hole Location: 415' North and 115' West from
surface location.

HO:eb

cc: Update Center
EDP

Blanket Bond

State Oil and Gas Supervisor

By 
Deputy Supervisor

for: R. A. Ybarra

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE of Bottom Hole Location

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL FILE
	OGD114	OGD121	
Blanket			

DIVISION OF OIL AND GAS

LONG BEACH Calif.

A notice to you dated November 25, 1980, stating the intention to

Drill NW LONG BEACH UNIT #8-5, API No. 037-22295

(Drill, rework, abandon) (Well name and number)
Sec. 13, T. 4S, R. 13W, B. & M., LONG BEACH Field,

Los Angeles County, should be amended because of changed conditions.

The present condition of the well is as follows: The well has not been drilled as yet.

Total depth

Complete casing record including plugs and perforations:

We now propose BHL: 415' North & 115' West from surface location.

write on form OGD 165

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 25322 W. Rye Canyon Road
(Street)

Valencia California 91355
(City) (State) (Zip)

Telephone Number 805/257-6200

Sun Oil Company (Delaware)

(Name of Operator)

Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

By L. B. Carroll, Jr. 6/8/81
(Name) (Date)

Signature L. B. Carroll, Jr.

by [Signature]

RECEIVED

JUN 9 11 10 AM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

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

REPORT OF CORRECTION OR CANCELLATION

Long Beach, California

Mr. L. B. Carroll, Jr., Agent
SUN OIL COMPANY
23928 Lyons Avenue
Newhall, CA 91321

December 1, 1980

In accordance with your (corrected copy) Notice of Intention to Drill _____

the following change pertaining to your well No. NWLBU 8-5 (037-22295),
Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach field,
Los Angeles County, District No. _____, is being made in our records:

The corrected location is 535' North & 763' West @ Right Angle from intersection
C/L San Antonio Drive & Del Mar Ave.

The corrected elevation is _____
 Report No. _____, dated _____, has been
corrected as follows: _____

CORRECTIONS MADE AS FOLLOWS:		BY WHOM
PROB. LOG		
" 1/2"		
" 1/4"	<u>CP</u>	<u>CP</u>
" 1/8"		
CADRE		
PRODUCTION REPORTS		
WELL RECORDS (FOLDERS)		<u>CP</u>
(REPORTS)		<u>CP</u>
FIELD MAPS		<u>CP</u>
DEEP RECORD		<u>CP</u>

Your notice to _____ dated _____
(Drill, abandon, etc.)
and our report No. P _____, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

Other: Proposed coordinates from surface location @ TD 393' S & 439' E

HO/bd

cc: Update Center - EDP
Sun Oil Co.

Blanket Bond

State Oil and Gas Supervisor

By [Signature]
V. A. Ybarra, Deputy Supervisor

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well

*CORRECTED COPY

C.E.Q.A. INFORMATION			
EXEMPT CLASS <input type="checkbox"/>	NEG. DEC. <input checked="" type="checkbox"/> ND 64-77 S.C.H. NO. _____	E.I.R. <input type="checkbox"/> S.C.H. NO. _____	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well NW LONG BEACH UNIT #8-5, API No. _____ (Assigned by Division)
Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.
Legal description of mineral-right lease, consisting of 149 acres, is as follows: _____ (Attach map or plat to scale)

Do mineral and surface leases coincide? Yes _____ No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 535 feet North ~~along section property line~~ and 763 feet West
(Direction) (Cross out one) (Direction)

at right angles to ~~said line~~ from the ~~corner of section property~~
(Cross out one)

intersection of centerlines of San Antonio Drive & Del Mar Avenue

Is this a critical well according to the definition on the reverse side of this form? Yes No

* If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:
415 393 feet South ~~North~~ and 439 115 feet East ~~West~~
(Direction) (Direction)

Elevation of ground above sea level 45.5 feet. *Correction dated 6/25/81*

All depth measurements taken from top of Kelly Bushing that is 10 feet above ground.
(Derrick Floor, Rotary Table, or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
10-3/8"	48#	H-40	Surface	650'	650'	Surface
9-5/8"	36#	K-55; S-80	Surface	5950'	5950'	1500'

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Lower Alamitos @ 4311' TVD; Brown @ 4726' TVD Estimated total depth 5876' TVD
(Name, depth, and expected pressure) Pres. ≈ 800 PSI

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>SUN OIL COMPANY (DELAWARE)</u>		Type of Organization (Corporation, Partnership, Individual, etc.) <u>CORPORATION</u>	
Address <u>23928 LYONS AVENUE</u>		City <u>NEWHALL, CALIFORNIA</u>	Zip Code <u>91321</u>
Telephone Number <u>805/259-2440</u>	Name of Person Filing Notice <u>L. B. CARROLL</u>	Signature <u>L. B. Carroll</u>	Date <u>11-25-80</u>

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice *or* supply the following information:

Lead Agency: City of Long Beach
Contact Person: G. H. Felgemaker
Address: 333 West Ocean Blvd.
Long Beach, California 90802
Phone: (213) 590-6894

FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

RECEIVED
NOV 28 12 51 PM '80
DIV. OF OIL AND GAS
LONG BEACH CA

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well

*CORRECTED COPY

C.E.Q.A. INFORMATION			
EXEMPT CLASS <input type="checkbox"/>	NEG. DEC. <input checked="" type="checkbox"/> ND 64-77 S.C.H. NO. _____	E.I.R. <input type="checkbox"/> S.C.H. NO. _____	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well NW LONG BEACH UNIT #8-5, API No. _____
(Assigned by Division)
Sec. 13, T4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.
Legal description of mineral-right lease, consisting of 149 acres, is as follows: _____
(Attach map or plat to scale)

Do mineral and surface leases coincide? Yes _____ No X If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 535 feet North ~~along section property line~~ and 763 feet West
(Direction) (Cross out one) (Direction)
at right angles to said line from the ~~corner of section property~~
(Cross out one)
intersection of centerlines of San Antonio Drive & Del Mar Avenue

Is this a critical well according to the definition on the reverse side of this form? Yes No

* If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:
393 feet South and 439 feet East
(Direction) (Direction)

Elevation of ground above sea level 45.5 feet.

All depth measurements taken from top of Kelly Bushing that is 10 feet above ground.
(Derrick Floor, Rotary Table, or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
10-3/8"	48#	H-40	Surface	650'	650'	Surface
9-5/8"	36#	K-55; S-80	Surface	5950'	5950'	1500'

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Lower Alamitos @ 4311' TVD; Brown @ 4726' TVD Estimated total depth 5876' TVD
(Name, depth, and expected pressure) Pres. ≈ 800 PSI

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>SUN OIL COMPANY (DELAWARE)</u>	Type of Organization (Corporation, Partnership, Individual, etc.) <u>CORPORATION</u>		
Address <u>23928 LYONS AVENUE</u>	City <u>NEWHALL, CALIFORNIA</u>	Zip Code <u>91321</u>	
Telephone Number <u>805/259-2440</u>	Name of Person Filing Notice <u>L. B. CARROLL</u>	Signature <u>L. B. Carroll</u>	Date <u>11-25-80</u>

257 4702 DISTRICT ENGINEER
This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice or supply the following information:

Lead Agency: City of Long Beach
Contact Person: G. H. Felgemaker
Address: 333 West Ocean Blvd.
Long Beach, California 90802
Phone: (213) 590-6894

FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

CRITICAL WELL

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

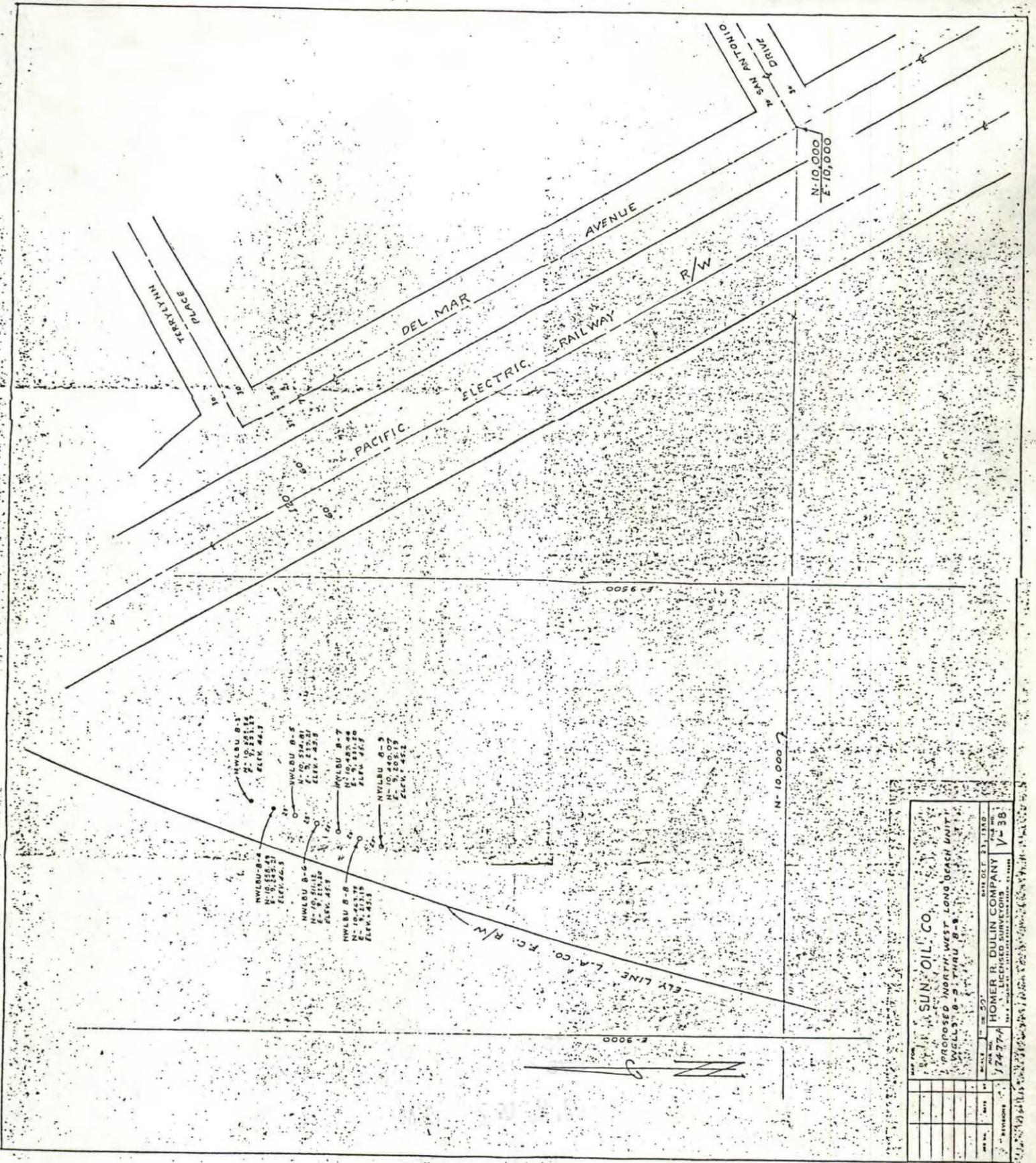
- (1) 300 feet of the following:
 - (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
 - (B) Any airport runway.
- (2) 100 feet of the following:
 - (A) Any dedicated public street, highway, or nearest rail of an operating railway that is in general 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

LONG BEACH, CA.
DIV. OF OIL AND GAS

NOV 28 12 51 PM '80

RECEIVED



DATE PLOTTED		DATE OF FIELD SURVEY	
1/24/77		3/1/70	
DRAWN BY		CHECKED BY	
HOMER R. DULIN COMPANY		V-38	
SUN OIL CO. PROPOSED NORTH WEST LONG BEACH UNIT WELLS B-1 THROUGH B-9			

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Nov 28 12 51 PM '80

DIV. OF OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well

C.E.Q.A. INFORMATION				FOR DIVISION USE ONLY				
EXEMPT CLASS <input type="checkbox"/>	NEG. DEC. NO. 64-77 <input checked="" type="checkbox"/> S.C.H. NO. _____	E.I.R. <input type="checkbox"/> S.C.H. NO. _____	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>	MAP 10-30-80	MAP BOOK	CARDS 10-28-80	BOND Blanket	FORMS 114 121 10-28-80 10-28-80
See Reverse Side								

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well NW LONG BEACH UNIT #8-5, API No. 037-22295 (Assigned by Division)
Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.
Legal description of mineral-right lease, consisting of 149 acres, is as follows: _____
(Attach map or plat to scale)

- See Attached -

Do mineral and surface leases coincide? Yes _____ No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 535-534 feet North ~~along section/property line~~ and 763-767 feet West
(Direction) (Cross out one) (Direction)
at right angles ~~to such line~~ from the ~~corner of section/property line~~ intersection of San Antonio Drive & Del Mar Avenue
(Cross out one)

Is this a critical well according to the definition on the reverse side of this form? Yes No

If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:
393 ~~324~~ 415 feet South ~~North~~ 439 ~~449~~ 115 feet East West
(Direction) and (Direction) Correction dated 11-25-80

Elevation of ground above sea level 46 ~~45.5~~ feet. 11 11 6-25-81

All depth measurements taken from top of Kelly Bushing that is 10 feet above ground.
(Derrick Floor, Rotary Table, or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
<u>10 3/8"</u> 13-3/8"	48#	K-55	Surface	650'	650'	Surface
9-5/8"	36#	K-55 & S-80	Surface	5900'	5900'	1500'

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Lower Alamitos @ 4315' TVD, Brown @ 4730' TVD Estimated total depth 5860' TVD
(Name, depth, and expected pressure) Press 800 PSI

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>SUN OIL COMPANY (DELAWARE)</u>	Type of Organization (Corporation, Partnership, Individual, etc.) <u>Corporation</u>
Address <u>23928 Lyons Avenue</u>	City <u>Newhall, California</u>
Telephone Number <u>805/259-2440</u>	Zip Code <u>91321</u>
Name of Person Filing Notice <u>L. B. CARROLL, JR.</u>	Signature <u>L. B. Carroll (by mejm)</u>
	Date <u>10/23/80</u>

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice *or* supply the following information:

Lead Agency: CITY OF LONG BEACH
Contact Person: G. H. FELGEMAKER
Address: 333 WEST OCEAN BLVD.
LONG BEACH, CALIFORNIA 90802
Phone: (213) 590-6894

FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

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OCT 24 8 40 AM '80
DIV. OF OIL AND GAS
LONG BEACH, CA

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

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

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

REPORT OF WELL ABANDONMENT

Long Beach California

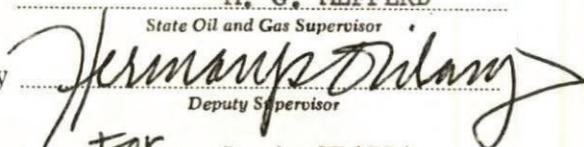
October 7, 1981

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Your report of abandonment of well NWLBU 8-5
(Name and number)
A.P.I. No. 037-22295, Section 13, T. 4S, R. 13W, S. B. B. & M.
Long Beach field, Los Angeles County,
dated 9-2-81, received 9-4-81, has been
examined in conjunction with records filed in this office, and we have determined that all of
the requirements of this Division have been fulfilled.

HO:dh

cc: Update
Los Angeles County Planning Comm.
Fire Prevention Bureau
L. A. County Assessor
Dept. of Bldg. & Safety
Fire Dept.
Conservation Committee
Blanket Bond

M. G. MEFFERD
State Oil and Gas Supervisor
By 
Deputy Supervisor
For R. A. YBARRA

DIVISION OF OIL AND GAS

CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Sun Oil Company Well No. MWLBW 8-5
 API No. 037-22295 Sec. 13 T. 4S, R. 13W, S.B. B.&M.
 County _____ Field Long Beach

RECORDS RECEIVED

DATE

✓ Well Summary (Form OGD100) 9-4-81 (2)
 ✓ History (Form OGD103) 9-4-81 (2)
 Core Record (Form OGD101) _____
 Directional Survey _____
 Sidewall Samples _____
 Other _____
 Date final records received _____
 Electric logs: _____

STATUS

STATUS

Producing - Oil	_____	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	_____	CO2 Injection	_____
Abandoned - Gas	_____	LPG Injection	_____
Gas-Open to Oil Zone	_____	Observation	_____
Water Flood Source	_____		
DATE	<u>8/22/81</u>		
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 need
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 10-7-81
4. Form OGD159 (Final Letter) 10-7-81
5. Form OGD150b (Release of Bond) _____
6. Duplicate logs to archives _____
7. Notice of Records due (F-OGD170) _____

surface inspection 8-17-81 skay.ug

UPDATE CENTER 10-14-81

surface insp 5 return T. Ho

Final Letter - 9/17/81

RECORDS NOT APPROVED

Reason: need surface insp

RECORDS APPROVED

RELEASE BOND

Date Eligible _____
 (Use date last needed records were received.)

MAP AND MAP BOOK maps 137 & book 8-17-81
81-4965

WELL SUMMARY REPORT

Operator SUN OIL COMPANY (Delaware)		Well NW1BU #8-5			
Field Long Beach		County Los Angeles	Sec. 13	T. 4 S	R. & M. 13 W SB
Location (Give surface location from property or section corner, street center line and/or California coordinates) 534.81' N & 762.8' W frm intersection of C/L of San Antonio Dr. & Del Mar Ave.				Elevation of ground above sea level 45.5	

Commenced drilling (date) 7/30/81	Total depth			Depth measurements taken from top of:	
	(1st hole) 4965'	(2nd)	(3rd)	<input type="checkbox"/> Derrick Floor	<input type="checkbox"/> Rotary Table
Completed XXXXXX P&A 8/20/81	Present effective depth N/A			Which is \pm 10 feet above ground	
Commenced producing (date) N/A	Junk None			GEOLOGICAL MARKERS	
<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas lift				N/A	
Name of producing zone(s) Lower Alamitos	Formation and age at total depth Brown				

	Clean Oil (bbl per day)	Gravity Clean Oil	Percent Water including emulsion	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	N/A					
Production After 30 days						

CASING RECORD (Present Hole)								
Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)
13 3/8"	Surface	662'	48#	K-55	New	17 1/2"	903 Sacks Cl "G" cmt.	-

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)
None

Was the well directionally drilled? If yes, show coordinates at total depth
 Yes No **415' N & 115' W**

Electrical log depths
N/A

Other surveys
N/A

In compliance with Sec. 3215, Division 3 of the Public Resources Code, 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.

Name L.B. Carroll, Jr.		Title District Engineer	
Address P.O. Box 55060		City Valencia	Zip Code 91355
Telephone Number 805-257-6200	Signature <i>L.B. Carroll Jr</i>	Date 9/3/81	

by Jtg

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SEP 4 11 51 AM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

SUBMIT IN DUPLICATE
 RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SUN OIL COMPANY (DELAWARE) Field or County Long Beach
 Well North Wilmington Long Beach Unit 8-5, Sec. 13, T4S, R13W, SB. B. & M.
 A.P.I. No. 037-22295 Name L. B. CARROLL, JR. Title Agent
 Date 9/2/81, 1981 (Person submitting report) (President, Secretary or Agent)

Signature L. B. Carroll Jr.

P. O. Box 55060, Valencia, California 91355 (805) 257-6200
 (Address) (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	
1981	
7/30	5826 TVD/"V" SANDS/IR/ATLANTIC OIL/LA CA/WI 1.00/ SURF LOC: 534.81' N & 762.8' W FRM INTERSECTION OF C/L OF SAN ANTONIO DR & DEL MAR AVE; BHL: 415' N & 115' W FRM SURF LOC/ 475 SD SH D (420) DRLG/MIRU ATLANTIC OIL CO RIG #3/SPUD @ 7 AM/ DRLG 17½" HOLE FRM 55-65'/SHUT DN 2½ HR WAITING ON DP ELEVATORS/ INST SOUND PROOFING ARND MUD PMPs/DRLG 17½" HOLE FRM 65-475'/ MW 68/VIS 55/
7/31	665 SD SH D (190) WOC/DRLG 17½" HOLE FRM 475-665/PREP HOLE TO RUN CSG/RAN 18 JTS (669) 13-3/8" 48#, H40, ST-C w GUIDE SHOE @ 662, FLOAT CLR @ 622/HALIB PMP 903 CF CL "G" CMT w 2% CaCl ₂ /DISP w 573 CF DRLG MUD/DID NOT BMP PLUG/CIP @ 1:55 AM/225 CF CMT RTNS TO SURF/ WOC 4 HRS/SURV @ 665 ¼°/MW 70/VIS 47/
8/3	8-1/665 SD SH RIH w 12¼" BIT/CUT OFF CONDUCTOR & CLN CELLAR/WELD ON 13-3/8" CSG HD/INST & TST BOE TO 1000 PSI, OK/MU BHA & RIH/ MW 66/VIS 42/8-2/1239 SD GR D (574) DRLG/RIH w 12¼" BIT & TAG CMT @ 343/TST CSG & BOE TO 1000 PSI, OK/WAIT ON DOG 1 HR/CO CMT FRM 343-622/TST CSG & BOE, OK/DRLG FLOAT, CMT & SHOE TO 662/DRLG 12¼" HOLE FRM 662-1239/MW 70/VIS 44/8-3/1768 SD SH D (529) DRLG/DRLG & DYNA DRL 12¼" HOLE FRM 1239-1768/SURV @ 1692 9°15' N40°30' W/TVD 1690.50/SEC. 23.26/N-21.10/E-10.94/MW 69/VIS 42/
8/4	2062 SD SH D (294) DRLG/DRLG & DYNA DRL 12¼" HOLE FRM 1768-2062/ SURV @ 2031 10°30' N37°W/TVD 2023.60/SEC.81.77/N-71.50/W-48.16/ MW 70/VIS 40/
8/5	2498 SD SH D (436) TRIP FOR DYNA DRL/DRLG 12¼" HOLE FRM 2062-2498/ SURV @ 2488 13°45' N32°W/TVD 2469.26/SEC.176.82/N-154.17/W-105.73/ MW 68/VIS 37/
8/6	2760 SD SH D (262) DRLG/DRLG & DYNA DRL FRM 2498-2760/SURV @ 2669' 12°30' N 08°30' W/TVD 2645.77/SEC.216.84/N-192.52/W-176.42/MW 68/ VIS 39/
8/7	3337 SD SH D (577) TRIP/DRLG 12¼" HOLE FRM 2760-3337/TRIP FOR BIT/ DRL PIPE VERY TIGHT/SURV @ 3307/10°30' N 05°30' W/TVD 3272.09/SEC. 336.52/N-313.02/W-130.54/MW 68/VIS 39/

DIVISION OF OIL & GAS
History of Well

NWLBU #8-5
Sec. 13, T13, R4S, SBB&M

Page: 2

1981

- 8/8 3524 SD SH D (187) TRIP FOR BHA/FINISH TRIP SERVICING ALL TOOL JTS/DRL 12 $\frac{1}{4}$ " HOLE FRM 337-3524/SURV @ 3518' 6 $^{\circ}$ 30'/N 0 $^{\circ}$ 30' W/ TVD 3480.77/SEC.366.91/N-343.87/W-133.02/MW 69/VIS 39/
- 8/9 3940 SD SH D (416) DRLG/DRLG 12 $\frac{1}{4}$ " HOLE FRM 3524-3940/SURV @ 3940 5 $^{\circ}$ /N 0 $^{\circ}$ 30' E/TVD 3900.77/SEC.406.94/N-384.81/W-135.14/MW 69/ VIS 38/
- 8/10 4040 SD SH D (100) DRLG/TRIP TO CHG TOOLS TO 8-3/4"/DRLG 8-3/4" HOLE FRM 3940-4028, SURV LINE BROKE, TRIP TO RETRIEVE SURV & LINE/DRLG 8-3/4" HOLE FRM 4028-4040/SURV @ 4028 4 $^{\circ}$ 30'/N 2 $^{\circ}$ 30' W/ TVD 3988.46/SEC.413.99/N-392.10/W-135.27/MW 68/VIS 40/
- 8/11 4432 SD SH D (392) REPR SWIVEL/DRLG 8-3/4" HOLE FRM 4040-4432/REPR SWIVEL 2 HRS/SURV @ 4390 3 $^{\circ}$ /N 17 $^{\circ}$ 30' E/TVD 4349.88/SEC.433.32/ N-412.11/W-135.46/MW 69/VIS 37/
- 8/12 4432 PREPNG RIG/REPR SWIVEL/TRIP FOR NEW BIT/REPR ROTARY CLUTCH/ REPR HOOK ON BLOCKS/MW 68/VIS 35/
- 8/13 4669 SD SH D (237) DRLG/COMPLETE THE RIG REPR/DRLG 8-3/4" HOLE FRM 4432-4669/SURV @ 4578' 1 $^{\circ}$ 45', N09 $^{\circ}$ E/TVD 4537.71/SEC.440.46/N- 419.95/W-133.88/MW 68/VIS 42/
- 8/14 4822 SD SH D (158) REAMING/DRLG 8-3/4" HOLE FRM 4669-4700/REPR RIG FOR 2 $\frac{1}{2}$ HRS/DRLG FRM 4700-4822/TRIP FOR BIT & BHA/REAM FRM 4690-4822/ SURV @ 4822, 0 $^{\circ}$ 30', N-39 $^{\circ}$ -E/TVD 4781.66/SEC.444.70/N-424.55/W-133.17/ MW 68/VIS 37/
- 8/15 4965 SD SH D (183) ATTMPT TO FREE STUCK PIPE/DRLG 8-3/4" HOLE FRM 4822-4965/LOST RTNS @ 4965/PU TO 4790; PIPE STUCK/WRK STUCK DP & PMP TOT OF 1700 BBLS MUD & LCM w NO RTNS/MW 68/VIS 30/
- 8/16 4965 SD SH FISHING DP/ATTMPT TO FILL HOLE;COULD NOT FILL/ MIRU DIA-LOG/RAN FREE POINT/FREE POINT SHOWD PIPE STUCK @ 703 & 826/PIPE FREE @ 638 INSIDE 13-3/8" SURF CSG/STG SHOT TOOL JT @ 638/ COULD NOT BACK OFF/RESHOT @ 638/BK OFF DP @ 638/PULLED 130,000# DN DP FRM 638-577/POH w DP/BTM JT COVERD w CMT/MU FISHING TOOLS & RIH w OVERSHOT, BMPR SUB, JARS, DC's/TAG FILL @ 538 w TOP OF FISH @ 638/CO FILL TO TOP OF FISH @ 638 w NO RTNS/ATTMPT TO GET OVR FISH/ PUSHD FISH DN HOLE/CK TO SEE FISHING TOOLS FREE, OK/TOP OF FISH @ 726; BTM @ 4878/MW 68/VIS 70/
- 8/17 4965 SD SH FISHING DP/ATTMPT TO WASH DN OVR 4" DP w 7-5/8" OVERSHOT TO 842 w NO RTNS/POH & LD FISHING TOOLS/RIH w 12 $\frac{1}{4}$ " BIT DC's & BMPR SUB/STPD @ 539/POH & MU 9-5/8" OVERSHOT, BMPR SUB, JARS, DC's & ACCELERATOR/RIH & WRK THRU TIGHT SPOT @ 539-542/CO TO 870 w NO RTNS/PREP TO CALIPER 13-3/8" CSG; POSSIBLY COLLAPSD OR PARTD/MW 70/ VIS 85/
- 8/18 4965 POH w IB/RIG UP DIA LOG & RUN CSG INSP LOG/CSG PARTED @ 544/ RIH w 1 CONE 12 $\frac{1}{4}$ " BIT, UNABL TO GET INTO CSG, RUN DN BESIDE 13-3/8 TO 677'/WAIT ON I.B./RUN 11 $\frac{1}{2}$ " IB TO 544, SET DN 10,000#/POH w IB/

DIVISION OF OIL & GAS
History of Well

NWLBU #8-5
Sec. 13, T13, R4S, SBB&M

Page: 3

1981

- 8/19 4965 PREPNG TO PMP TEMP BLOCK "60" PILL/RIH OPN ENDED TO 544'/
MIX & PMP 300 BBLs OF LCM, 200 BBLs w 27# PER BBL OF LCM, 100 BBLs
w 15-17# PER BBL OF LCM, NO RTNS/RIH w 10½" IB w 12½ STAB ABOVE IT,
TO 544/IB SHOWS CSG IS 5"± OUT IN HOLE/RIH OPN ENDED TO 544, PREP TO
MIX TEMP BLOCK "60"/
- 8/20 4965 PREPNG TO P&A/MX & PMP 60 BBLs OF TEMP BLOCK 61 @ 518/POH
WAIT 2 HRS, ATTEMPT TO FILL HOLE, HOLE WD NOT FILL/RIH TO 518,
PMP 30 BBLs OF TEMP BLOCK 61, POH/RIH w 4-¾" SWEDGE, 1 JT
CROOKED 4" DP, 8-¾" STAB ON 5 - 6" D.C./ATTEMPT TO GET INTO
SHIFTED CSG/UNABL TO DO SO/RUN 10-¼" IB TO 544, POH IB SHOWS
CSG 4 - 5" INSIDE/LD ALL TOOLS & PREP TO P&A/
- 8/21 4965 TD WOC/w OPN ENDED DP @ 564, HALIB PMP 100 SX "G" CMT
w .25% THIX SET "A", .25% THIX SET "B", 25# PER SX GIL, ¼# PER SX
FLOCELE w 2% CaCl₂/WOC 4 HRS, RIH TO 564 NO PLUG/PMP 4, 50 SX PLUGS,
1 EVERY 2 HRS/WOC² FOR 4 HRS/RIH 541, PMP 50 CF FLO-CHECK, 100 SX
CMT PLUG/POH & WOC/
- 8/22 4965 TD, PSA ON 8-21-81/TAG CMT PLUG @ 301, WITNESS & APPRVD BY
D.O.G./SPOT CMT FRM 181-SURF/PULL BOP, CUT OFF WELL HD & CSG 5' BELOW
GRND LEVEL/RIG DN RIG PREP TO MOVE TO NWLBU #8-7/

RECEIVED

SEP 4 11 51 AM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS

Report on Operations

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Long Beach Calif.
September 14, 1981

Your operations at well NWLBU 8-5, API No. 037-22295,
Sec. 13, T4S, R. 13W S.B. B. & M. Long Beach Field, in Los Angeles County,
were witnessed on 8-21-81 by G. W. Stark, Engineer, representative of
the supervisor, was present from 0810 to 0940. There were also present D. Rodgers,
Drilling Foreman.

Present condition of well: 20" cem 56'; 13-3/8" cem 662', parted @ 544', Junk below 648'
TD 4965'. Plugged w/cem 548'-301' & 185'-8'+.

The operations were performed for the purpose of Witnessing the plugging operations in the
process of abandonment.

DECISION: APPROVED.

surface inspection 9-17-81 dhg/ny

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED
NONE

CONTRACTOR: Atlantic Oil Company

GWS:dh

cc: Update
EDP

M. G. MEFFERD

State Oil and Gas Supervisor

By *[Signature]*

Deputy Supervisor

R. A. YBARRA

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

158-598
17
191-883

Operator Sun Oil Company Well No. NWLBU 8-5
 API No. 037-22295 Sec. 13, T. 45, R. 13W, SB B&M
 Field Long Beach, County Los Angeles. On 8-21-81
 Mr. GW Stark, representative of the supervisor was present from 0810 to 0940
 There were also present D. Rodgers DF

Casing record of well: 20" cem 56'; 13 3/8" cem 662, parted @ 544', Junk
below 648'. TD 4965'. plugged w/ cem 548'-301' & 185'-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			

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	Engr.
<u>Existing Hole mud used to fill space 301-185'</u>						
<u>weight 72#cf vis 50 w/ lost circulation material Added.</u>						

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
<u>8/20/81</u>	<u>500 SX</u>	<u>DP @ 548</u>	<u>8/20/81</u>	<u>Reported by Rodgers.</u>	<u>301'</u>	<u>all dp wt</u>	<u>8-21-81 0830</u>	<u>GW Stark</u>
<u>8/21/81</u>	<u>100 SX</u>	<u>DP @ 185</u>	<u>0910</u>	<u>GW Stark</u>	<u>8'</u>	<u>visual</u>	<u>8-21-81 0940</u>	<u>GW Stark</u>

Deficiencies corrected
none

Deficiencies to be corrected
none.

Contractor Atlantic Oil Company

REPORT ON PROPOSED OPERATIONS

412
(field code)
03
(area code)
00
(pool code)

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Long Beach, California
August 31, 1981

Your _____ proposal to abandon well NWLBU 8-5,
A.P.I. No. 037-22295, Section 13, T. 4S, R. 13W, S. B. B. & M.,
Long Beach field, Northwest Extension area, - - - pool,
Los Angeles County, dated 8-20-81, received 8-21-81 has been examined in conjunction with records
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. All portions of the hole not plugged with cement shall be filled with clay base mud fluid having a minimum density of 72 lb/ cu ft and a minimum gel-shear strength of 25 lb/ 100 sq ft.
2. THIS DIVISION SHALL BE NOTIFIED:
 - a. To witness the placing, location and hardness of the cement plug from 648' to 440'.
 - b. To witness the placing of the cement surface plug .
 - c. To inspect and approve the clean-up of the well site before approval of abandonment will be issued.

HO:dh

cc: Update

Blanket Bond

M. G. MEFFERD, State Oil and Gas Supervisor

for By R. A. YBARRA, Deputy Supervisor

**A copy of this report 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.**

06 / Dry

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	121
8-24-81	Blanket	8-24-81	8-24-81

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 #8-5, API No. 037-22295, Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County, commencing work on August 20, 19 81.

The present condition of the well is:

1. Total depth: 4965' (8 3/4" Hole)
2. Complete casing record, including plugs and perforations:
13 3/8", 48#, H-40, ST&C csg shoe @ 662'; cmt'd w/903 CF CL 'G' cmt w/2% CaCl₂ 13 3/8" csg parted @ 540'; 4" DP Fish from 638' to 4790'
3. Last produced Never Produced
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
or
4. Last injected Never Injected
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

5. Additional data for dry hole (show depths)
Well never logged or tested - stuck drill pipe
Oil or gas shows N/A
6. Stratigraphic markers:
N/A
7. Formation and age at total depth: N/A
8. Base of fresh water sands: N/A

The proposed work is as follows:

- (1) RIH w/4" D P open-ended to 540'
- (2) Spot 300 sx of CL 'G' cmt w/0.25% Thix-set 'A', 0.25% Thix-set 'B', 25#/sx Gilsonite, 1#/sx Flocele, & 2% CaCl₂
- (3) Tag TOC @ 440' or higher
- (4) Spot column of 68PCF fresh water-gel mud to 100' from surface
- (5) Spot additional cement plug from 100' to surface
- (6) Cut off 13 3/8" casing
- (7) RDMO
- (8) Restore surface to original conditions

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 25322 West Rye Canyon Road
(Street)
Valencia California 91355
(City) (State) (Zip)
Telephone Number (805) 257-6200

Sun Production Company
(Name of Operator)
By [Signature] 8-20-81
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

RECEIVED

AUG 21 2 33 PM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS

Report on Operations

L. B. Carroll, Jr., Agent
SUN OIL COMPANY
P. O. Box 55060
Valencia, CA 91355

Long Beach Calif.
September 14, 1981

Your operations at well NWLBU 8-5, API No. 037-22295,
Sec. 13, T. 4S, R. 13W, S. B. & M. Long Beach Field, in Los Angeles County,
were witnessed on 8-1-81 by W. E. Brannon, Engineer, representative of
the supervisor, was present from 0600 to 1100. There were also present D. Rodgers,
Drilling Foreman.
Present condition of well: 20" cem 56'; 13-3/8" cem 662'. TD 665'.

The operations were performed for the purpose of Testing the blowout prevention equipment
and installation.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED

1. Pressure guage was on kill line.
2. Pump unable to hold pressure above 500#.
3. Adjustable choke had slow leak.
4. Remote control box was not hooked up.
5. First test failed.

CONTRACTOR: Atlantic Oil Company

WEB:dh

cc: Update
Dispatcher Clerk

M. G. MEFFERD

State Oil and Gas Supervisor

By [Signature]

Deputy Supervisor

R. A. YBARRA

**DIVISION OF OIL AND GAS
BLOWOUT PREVENTION EQUIPMENT MEMO**

T 181-834

Operator Sun Oil Company Well NWLRLI 8-5 Field Long Beach County Los Angeles

VISITS:	Date	Engineer	Time	Operator's Rep.	Title
1st	<u>8-1-81</u>	<u>W.E. BRANNON</u>	<u>0600 to 1100</u>	<u>D. Rodgers</u>	<u>DF</u>
2nd	<u>8-1-81</u>	<u>" " "</u>	<u>1100 to 1300</u>	<u>" " "</u>	<u>"</u>

Casing record of well: 20" Cem 56'; 13 3/8" Cem 662' TD 665'

OPERATION: Testing (~~inspecting~~) the blowout prevention equipment and installation.
DECISION: The blowout prevention equipment and installation are approved.

Proposed Well Opns: drill MPSP: _____ psi
Hole size: 24 " fr. 0 ' to 20 ', 17 1/2 " to 665 ' & _____ " to _____ '

REQUIRED
BOPE CLASS: III B3M

CASING RECORD (BOPE ANCHOR STRING ONLY)					Cement Details		Top of Cement	
Size	Weight(s)	Grade (s)	Shoe at	CP at			Casing	Annulus
<u>13 3/8</u>	<u>48#</u>	<u>A-51C</u>	<u>662</u>		<u>905cf</u>	<u>did not bump plug</u>	<u>3433</u>	<u>0</u>

BOP STACK						a	b	a/b	TEST DATA				
API Symb.	Ram Sz.	Mfr.	Model or Type	Size In.	Press. Rtg.	Date Last Overhaul	Gal. to Close	Rec. Time Min.	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>A</u>	<u>12</u>	<u>Hydril</u>	<u>GK</u>	<u>12</u>	<u>3000</u>							<u>8/1/81</u>	<u>1200</u>
<u>Rd</u>	<u>4</u>	<u>Shaffer</u>	<u>B</u>	<u>12</u>	<u>3000</u>							<u>8/1/81</u>	<u>1300</u>
<u>Rd</u>	<u>850</u>	<u>Shaffer</u>	<u>B</u>	<u>12</u>	<u>3000</u>							<u>Rpt b D. Rodgers</u>	<u>1000</u>

ACTUATING SYSTEM			
Accum. Unit(s)	Wkg. Press.	<u>1500 psi</u>	
Total Rated Pump Output	_____ gpm		
Distance From Well Bore	<u>75 ft.</u>		
Mfr.	Accum. Cap.	Precharge	
<u>1 Hydril</u>	<u>80 gal.</u>	<u>750 psi</u>	
<u>2</u>	_____ gal.	_____ psi	
CONTROL STATIONS			Elec. Hyd.
<input checked="" type="checkbox"/>	Manif. at accum. unit		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Remote at Drlr's stn.		<input checked="" type="checkbox"/>
Other: _____			
EMERG. BACKUP SYST.		Press.	Wkg. Fl.
<input checked="" type="checkbox"/>	<u>N2 Cyl No: 3 Tpe: G</u>	<u>12700</u>	<u>1 gal</u>
	Other:	<u>22400</u>	<u>1 gal</u>
		<u>32600</u>	<u>1 gal</u>
		<u>4</u>	<u>gal</u>
		<u>5</u>	<u>gal</u>
		<u>6</u>	<u>gal</u>

AUXILIARY EQUIPMENT						
	No.	Sz. (in)	Rated Press.	Connections		
				Weld	Flan.	Thrd.
<input checked="" type="checkbox"/> Fill-Up Line						
<input checked="" type="checkbox"/> Kill Line		<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/> <u>1200</u>
<input checked="" type="checkbox"/> Control Valve(s)	<u>1</u>		<u>3000</u>			<input checked="" type="checkbox"/> _____
<input checked="" type="checkbox"/> Check Valve(s)	<u>1</u>		<u>3000</u>			<input checked="" type="checkbox"/> <u>1200</u>
<input checked="" type="checkbox"/> Auxil. Pump Connec.			<u>3000</u>			<input checked="" type="checkbox"/> <u>1200</u>
<input checked="" type="checkbox"/> Choke Line		<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/> <u>1200</u>
<input checked="" type="checkbox"/> Control Valve(s)	<u>1</u>		<u>3000</u>			<input checked="" type="checkbox"/> <u>1200</u>
<input checked="" type="checkbox"/> Pressure Gauge						<input checked="" type="checkbox"/> _____
<input checked="" type="checkbox"/> Adjustable Choke(s)	<u>1</u>	<u>2"</u>	<u>3000</u>			<input checked="" type="checkbox"/> _____
<input checked="" type="checkbox"/> Bleed Line		<u>2"</u>				<input checked="" type="checkbox"/> _____
<input checked="" type="checkbox"/> Upper Kelly Cock						
<input checked="" type="checkbox"/> Lower Kelly Cock						
<input checked="" type="checkbox"/> Standpipe Valve						
<input checked="" type="checkbox"/> Standpipe Pressure Ga.						
<input checked="" type="checkbox"/> Pipe Safety Valve	<u>4</u>		<u>3000</u>			<u>1200</u>
<input checked="" type="checkbox"/> Internal Preventer	<u>4</u>		<u>3000</u>			

HOLE FLUID MONITORING EQUIPMENT			
	Alarm		Class
	Aud.	Vis.	
<input checked="" type="checkbox"/> Calibrated Mud Pit			<u>A</u>
<input checked="" type="checkbox"/> Pit Level Indicator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>B</u>
<input checked="" type="checkbox"/> Pump Stroke Counter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>B</u>
<input type="checkbox"/> Pit Level Recorder			<u>C</u>
<input type="checkbox"/> Flow Sensor			
<input type="checkbox"/> Mud Totalizer			
<input type="checkbox"/> Calibrated Trip Tank			
Other: _____			

REMARKS: _____

Hole Fluid Type	Weight	Storage-Pits
<u>Clay base mud</u>	<u>9.5#</u>	<u>270 Bbl</u>

DEFICIENCIES—TO BE CORRECTED NONE

DEFICIENCIES—CORRECTED

- 1- Pressure gauge was on Kill line
- 2- Pump unable to hold pressure above 500#
- 3- Adjustable choke had slow leak
- 4- Remote control box was not hooked up.
- 5- First test failed

CONTRACTOR Atlantic Oil Co

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

REPORT OF CORRECTION OR CANCELLATION

Long Beach, California

June 25, 1981

L. B. Carroll, Jr., Agent

SUN OIL COMPANY

25322 W. Rye Canyon Road

Valencia, CA 91355

In accordance with your notice of June 8, 1981

the following change pertaining to your well NWLBU 8-5 (037-22295),
Long Beach field, Los Angeles County,
Sec. 13, T. 4S, R. 13W, S.B. B. & M., is being made in our records:

The corrected location is _____

The corrected elevation is _____

Report No. _____, dated _____, has been
corrected as follows: _____

Your notice to _____ dated _____
(Drill, abandon, etc.)
and our report No. P _____, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

Other: Bottom Hole Location: 415' North and 115' West from
surface location.

HO:eb

cc: Update Center
EDP

Blanket Bond

State Oil and Gas Supervisor

By [Signature]
Deputy Supervisor

for: R. A. Ybarra

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE of Bottom Hole Location

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL FILE
	OGD114	OGD121	
Blanket			

DIVISION OF OIL AND GAS

LONG BEACH Calif.

A notice to you dated November 25, 1980, stating the intention to

Drill NW LONG BEACH UNIT #8-5, API No. 037-22295

(Drill, rework, abandon) (Well name and number)
Sec. 13, T. 4S, R. 13W, B. & M., LONG BEACH Field,

Los Angeles County, should be amended because of changed conditions.

The present condition of the well is as follows: The well has not been drilled as yet.

Total depth

Complete casing record including plugs and perforations:

We now propose BHL: 415' North & 115' West from surface location.

write on form OGD 165

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 25322 W. Rye Canyon Road
(Street)

Valencia California 91355
(City) (State) (Zip)

Telephone Number 805/257-6200

Sun Oil Company (Delaware)

(Name of Operator)

Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

By L. B. Carroll, Jr. 6/8/81
(Name) (Date)

Signature L. B. Carroll, Jr.

by [Signature]

RECEIVED

JUN 9 11 10 AM '81

DIV. OF OIL AND GAS
LONG BEACH, CA.

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

REPORT OF CORRECTION OR CANCELLATION

Long Beach, California

Mr. L. B. Carroll, Jr., Agent
SUN OIL COMPANY
23928 Lyons Avenue
Newhall, CA 91321

December 1, 1980

In accordance with your (corrected copy) Notice of Intention to Drill _____

the following change pertaining to your well No. NWLBU 8-5 (037-22295),
Sec. 13, T. 4S, R. 13W, S.B. B. & M., Long Beach field,
Los Angeles County, District No. _____, is being made in our records:

The corrected location is 535' North & 763' West @ Right Angle from intersection
C/L San Antonio Drive & Del Mar Ave.

The corrected elevation is _____
 Report No. _____, dated _____, has been
corrected as follows: _____

CORRECTIONS MADE AS FOLLOWS:		BY WHOM
PROB. LOG		
" 1/2"		
" 1/4"	<u>CP</u>	<u>CP</u>
" 1/8"		
CADRE		
PRODUCTION REPORTS		
WELL RECORDS (FOLDERS)		<u>CP</u>
(REPORTS)		<u>CP</u>
FIELD MAPS		<u>CP</u>
FIELD BOOKS		<u>CP</u>

Your notice to _____ dated _____
(Drill, abandon, etc.)
and our report No. P _____, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

Other: Proposed coordinates from surface location @ TD 393' S & 439' E

HO/bd

cc: Update Center - EDP
Sun Oil Co.

Blanket Bond

State Oil and Gas Supervisor

By [Signature]
V. A. Ybarra, Deputy Supervisor

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well

*CORRECTED COPY

C.E.Q.A. INFORMATION			
EXEMPT CLASS <input type="checkbox"/>	NEG. DEC. <input checked="" type="checkbox"/> ND 64-77 S.C.H. NO. _____	E.I.R. <input type="checkbox"/> S.C.H. NO. _____	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well NW LONG BEACH UNIT #8-5, API No. _____ (Assigned by Division)
Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.
Legal description of mineral-right lease, consisting of 149 acres, is as follows: _____ (Attach map or plat to scale)

Do mineral and surface leases coincide? Yes _____ No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 535 feet North ~~along section property line~~ and 763 feet West
(Direction) (Cross out one) (Direction)

at right angles to ~~said line~~ from the ~~corner of section property~~
(Cross out one) (Cross out one)

intersection of centerlines of San Antonio Drive & Del Mar Avenue

Is this a critical well according to the definition on the reverse side of this form? Yes No

* If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:
415 393 feet South ~~North~~ and 439 115 feet East ~~West~~
(Direction) (Direction)

Elevation of ground above sea level 45.5 feet. *Correction dated 6/25/81*

All depth measurements taken from top of Kelly Bushing that is 10 feet above ground.
(Derrick Floor, Rotary Table, or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
10-3/8"	48#	H-40	Surface	650'	650'	Surface
9-5/8"	36#	K-55; S-80	Surface	5950'	5950'	1500'

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Lower Alamitos @ 4311' TVD; Brown @ 4726' TVD Estimated total depth 5876' TVD
(Name, depth, and expected pressure) Pres. ≈ 800 PSI

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>SUN OIL COMPANY (DELAWARE)</u>		Type of Organization (Corporation, Partnership, Individual, etc.) <u>CORPORATION</u>	
Address <u>23928 LYONS AVENUE</u>		City <u>NEWHALL, CALIFORNIA</u>	Zip Code <u>91321</u>
Telephone Number <u>805/259-2440</u>	Name of Person Filing Notice <u>L. B. CARROLL</u>	Signature <u>L. B. Carroll</u>	Date <u>11-25-80</u>

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice *or* supply the following information:

Lead Agency: City of Long Beach
Contact Person: G. H. Felgemaker
Address: 333 West Ocean Blvd.
Long Beach, California 90802
Phone: (213) 590-6894

FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

RECEIVED
NOV 28 12 51 PM '80
DIV. OF OIL AND GAS
LONG BEACH CA

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well

*CORRECTED COPY

C.E.Q.A. INFORMATION			
EXEMPT <input type="checkbox"/>	NEG. DEC. <input checked="" type="checkbox"/>	E.I.R. <input type="checkbox"/>	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>
CLASS _____	ND 64-77 S.C.H. NO. _____	S.C.H. NO. _____	
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well NW LONG BEACH UNIT #8-5, API No. _____
(Assigned by Division)
Sec. 13, T4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.
Legal description of mineral-right lease, consisting of 149 acres, is as follows: _____
(Attach map or plat to scale)

Do mineral and surface leases coincide? Yes _____ No X If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 535 feet North ~~along section property line~~ and 763 feet West
(Direction) (Cross out one) (Direction)
at right angles to said line from the ~~corner of section property~~
(Cross out one)
intersection of centerlines of San Antonio Drive & Del Mar Avenue

Is this a critical well according to the definition on the reverse side of this form? Yes No

* If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:
393 feet South and 439 feet East
(Direction) (Direction)

Elevation of ground above sea level 45.5 feet.

All depth measurements taken from top of Kelly Bushing that is 10 feet above ground.
(Derrick Floor, Rotary Table, or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
10-3/8"	48#	H-40	Surface	650'	650'	Surface
9-5/8"	36#	K-55; S-80	Surface	5950'	5950'	1500'

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Lower Alamitos @ 4311' TVD; Brown @ 4726' TVD Estimated total depth 5876' TVD
(Name, depth, and expected pressure) Pres. ≈ 800 PSI

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>SUN OIL COMPANY (DELAWARE)</u>	Type of Organization (Corporation, Partnership, Individual, etc.) <u>CORPORATION</u>
Address <u>23928 LYONS AVENUE</u>	City <u>NEWHALL, CALIFORNIA</u>
Telephone Number <u>805/259-2440</u>	Zip Code <u>91321</u>
Name of Person Filing Notice <u>L. B. CARROLL</u>	Signature <u>L. B. Carroll</u>
<u>257 4702</u> DISTRICT ENGINEER	Date <u>11-25-80</u>

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice or supply the following information:

Lead Agency: City of Long Beach
Contact Person: G. H. Felgemaker
Address: 333 West Ocean Blvd.
Long Beach, California 90802
Phone: (213) 590-6894

FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

LONG BEACH, CA.
DIV. OF OIL AND GAS

NOV 28 12 51 PM '80

RECEIVED

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Nov 28 12 51 PM '80

DIV. OF OIL AND GAS
LONG BEACH, CA.

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

C.E.Q.A. INFORMATION				FOR DIVISION USE ONLY				
EXEMPT CLASS <input type="checkbox"/>	NEG. DEC. NO. 64-77 <input checked="" type="checkbox"/> S.C.H. NO. _____	E.I.R. <input type="checkbox"/> S.C.H. NO. _____	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>	MAP 10-30-80	MAP BOOK	CARDS 10-28-80	BOND Blanket	FORMS 114 121
See Reverse Side								

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well NW LONG BEACH UNIT #8-5, API No. 037-22295 (Assigned by Division)
 Sec. 13, T. 4S, R. 13W, SB B. & M., Long Beach Field, Los Angeles County.
 Legal description of mineral-right lease, consisting of 149 acres, is as follows: _____
 (Attach map or plat to scale)
 - See Attached -

Do mineral and surface leases coincide? Yes _____ No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 535-534 feet North ~~along section/property line~~ and 763-767 feet West
 (Direction) (Cross out one) (Direction)
 at right angles ~~to such line~~ from the ~~corner of section/property line~~
 (Cross out one)
intersection of San Antonio Drive & Del Mar Avenue

Is this a critical well according to the definition on the reverse side of this form? Yes No

If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:
393 ~~324~~ 415 feet South ~~North~~ 439 ~~449~~ 115 feet East West
 (Direction) (Direction) Correction dated 11-25-80

Elevation of ground above sea level 46 ~~45.5~~ feet. 11 11 6-25-81

All depth measurements taken from top of Kelly Bushing that is 10 feet above ground.
 (Derrick Floor, Rotary Table, or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
13-3/8" <u>10 3/8"</u>	48#	K-55	Surface	650'	650'	Surface
9-5/8"	36#	K-55 & S-80	Surface	5900'	5900'	1500'

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Lower Alamitos @ 4315' TVD, Brown @ 4730' TVD Estimated total depth 5860' TVD
 (Name, depth, and expected pressure) Press 800 PSI. 5876'

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>SUN OIL COMPANY (DELAWARE)</u>	Type of Organization (Corporation, Partnership, Individual, etc.) <u>Corporation</u>
Address <u>23928 Lyons Avenue</u>	City <u>Newhall, California</u>
Telephone Number <u>805/259-2440</u>	Zip Code <u>91321</u>
Name of Person Filing Notice <u>L. B. CARROLL, JR.</u>	Signature <u>L. B. Carroll (by meym)</u>
	Date <u>10/23/80</u>

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice *or* supply the following information:

Lead Agency: CITY OF LONG BEACH
Contact Person: G. H. FELGEMAKER
Address: 333 WEST OCEAN BLVD.
LONG BEACH, CALIFORNIA 90802
Phone: (213) 590-6894

FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

CRITICAL WELL

As defined in the California Administrative Code, 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 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.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

RECEIVED
OCT 24 8 40 AM '80
DIV. OF OIL AND GAS
LONG BEACH, CA

C.R.G. Properties, Ltd.

DECL. CORR. 14 DEG. 30 MIN. EAST

PAGE 1

MEAS. DEPTH	DRIFT ANGLE	DRIFT BEARING	VERTICAL DEPTH	VERTICAL SUB-SEA	TOTAL COORDINATES
125	0015	N64 00E	125.0	-69.0	.1 N .2 E
215	0015	N14 00E	215.0	-159.0	.4 N .5 E
306	0015	S18 00W	306.0	-250.0	.5 N .1 E
417	0015	N36 00W	417.0	-361.0	.5 N .4 W
507	0015	N49 00E	507.0	-451.0	.8 N .3 W
600	0015	N60 00W	600.0	-544.0	1.3 N .4 W
693	0015	N34 00E	693.0	-637.0	1.6 N .5 W
783	0015	N09 30E	783.0	-727.0	2.0 N .3 W
875	0015	N80 00E	875.0	-819.0	2.3 N 0.0 W
965	0030	S05 00E	965.0	-909.0	1.9 N .4 E
1120	0030	N73 00W	1120.0	-1064.0	1.1 N .6 W
1192	0030	N15 00W	1192.0	-1136.0	1.5 N 1.0 W
1286	0000	N00 00E	1286.0	-1230.0	1.9 N 1.2 W
1386	0015	N21 00W	1386.0	-1330.0	2.1 N 1.2 W
1428	0245	N01 00W	1428.0	-1372.0	3.2 N 1.4 W
1489	0415	N14 00W	1488.9	-1432.9	6.9 N 1.9 W
1549	0600	N29 00W	1548.6	-1492.6	11.9 N 3.9 W
1611	0730	N24 00W	1610.2	-1554.2	18.4 N 7.1 W
1672	0930	N17 00W	1670.5	-1614.5	26.9 N 10.3 W
1735	1115	N11 00W	1732.5	-1676.5	37.9 N 13.0 W
1766	1215	N13 00W	1762.8	-1706.8	44.0 N 14.4 W
1894	1330	N25 00W	1887.6	-1831.6	71.0 N 23.6 W
1989	1315	N23 30W	1980.0	-1924.0	91.1 N 32.7 W
2081	1315	N22 00W	2069.6	-2013.6	110.5 N 40.8 W
2173	1315	N25 30W	2159.1	-2103.1	129.8 N 49.3 W
2264	1300	N30 30W	2247.8	-2191.8	148.0 N 59.0 W
2357	1230	N25 30W	2338.5	-2282.5	166.2 N 68.7 W
2404	1330	N21 00W	2384.3	-2328.3	175.9 N 72.8 W
2465	1330	N05 00W	2443.6	-2387.6	189.8 N 76.0 W
2571	1300	N02 00E	2546.8	-2490.8	214.0 N 76.7 W
2663	1300	N02 00E	2636.4	-2580.4	234.7 N 75.9 W
2754	1245	N03 00E	2725.1	-2669.1	255.0 N 75.1 W
2848	1230	N03 00E	2816.8	-2760.8	275.5 N 74.0 W
2938	1215	N05 30E	2904.7	-2848.7	294.7 N 72.6 W
3022	1200	N04 30E	2986.9	-2930.9	312.3 N 71.0 W

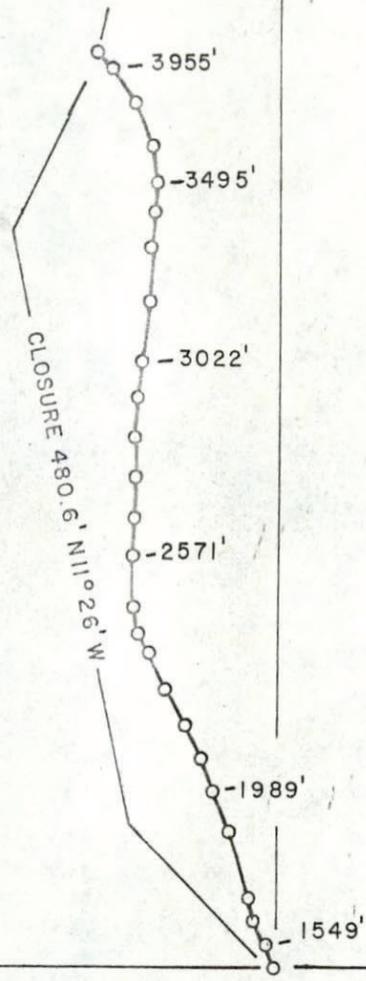
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 MAY 19 11 51 AM '83
 DIV OF OIL AND GAS
 LONG BEACH, CALIF.

MEAS. DEPTH	DRIFT ANGLE	DRIFT BEARING	VERTICAL DEPTH	VERTICAL SUB-SEA	TOTAL COORDINATES	
3175	1200	N04 30E	3136.5	-3080.5	344.0 N	68.5 W
3207	1200	N04 30E	3167.8	-3111.8	350.7 N	68.0 W
3310	1130	N03 30E	3268.7	-3212.7	371.6 N	66.5 W
3404	1130	N04 30E	3360.8	-3304.8	390.3 N	65.2 W
3495	1045	N05 00E	3450.1	-3394.1	407.8 N	63.8 W
3575	1330	N11 00W	3528.3	-3472.3	424.6 N	64.7 W
3635	1200	N25 00W	3586.8	-3530.8	437.1 N	68.7 W
3696	0930	N34 00W	3646.7	-3590.7	447.1 N	74.3 W
3758	0615	N43 00W	3708.2	-3652.2	453.7 N	79.6 W
3863	0330	N41 00W	3812.8	-3756.8	460.3 N	85.6 W
3955	0215	N41 00W	3904.7	-3848.7	463.8 N	88.6 W
4047	0200	N42 00W	3996.6	-3940.6	466.4 N	90.9 W
4139	0115	N40 00W	4088.6	-4032.6	468.3 N	92.6 W
4235	0115	N69 00W	4184.5	-4128.5	469.6 N	94.3 W
4332	0045	N54 00W	4281.5	-4225.5	470.4 N	95.8 W
4427	0015	N34 00E	4376.5	-4320.5	471.2 N	95.9 W
4518	0030	S26 00E	4467.5	-4411.5	471.1 N	95.3 W

CLOSURE: 480.6 FEET N 11 DEG. 26 MIN. W

COMPUTED USING THE AVERAGED ANGLE METHOD

4518' M.D.
471.1' NORTH
95.3' WEST



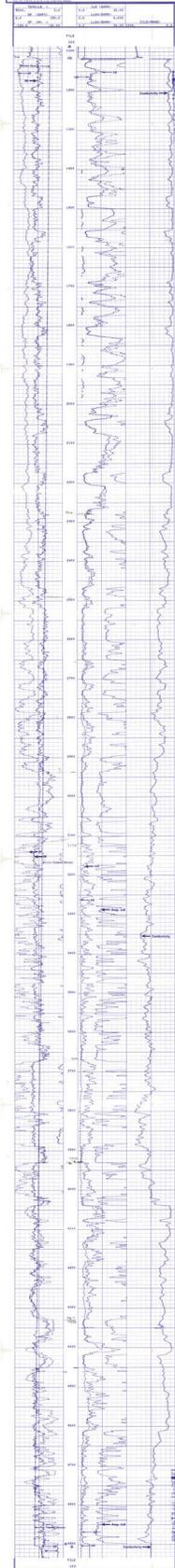
DECL. 14°30'



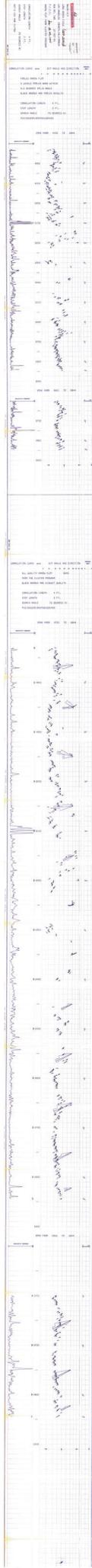
1" = 100'

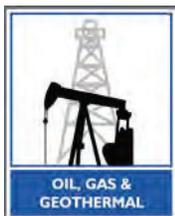
N.W.L.B.U. WELL No. 8-7

PROPERTY RECORD No. _____ Date _____ City _____	
OWNER Name _____ Address _____ City _____	ASSESSOR Name _____ Address _____ City _____
DESCRIPTION _____ _____ _____	REMARKS _____ _____ _____



DATE _____ _____ _____	TIME _____ _____ _____	LOCATION _____ _____ _____	REMARKS _____ _____ _____
--	--	--	---





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**" **9-2**, A.P.I. No. **037-13525**, Section **13**, T. **04S**, R. **13W**, **SB** B.&M., **Long Beach** field, **Los Angeles** County, dated **4/21/2014**, received **5/6/2014**, 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 1/7/2014.
2. Site inspection made and approved on 1/15/2014.

Kenneth A. Harris Jr.

State Oil and Gas Supervisor

Digitally signed by Scott Walker
DN: cn=Scott Walker, o=Department of Conservation,
ou=Division of Oil, Gas & Geothermal Resources,
email=scott.walker@conservation.ca.gov, c=US
Date: 2017.04.07 16:55:45 -07'00'

By
For

Daniel J. Dudak, *District Deputy*

EPM:epm

cc: Long Beach Dept. of Gas & Oil

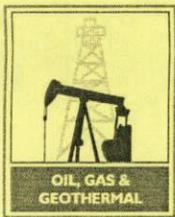
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company:	Westates Petroleum Corp. <i>C.R.G. Properties, LTD</i>	Well: "NWLBU 8-7"
API#:	037-22512	Sec. 13, T. 4S, R.13W. S. B. B. & M.
County:	Los Angeles	Field: Long Beach

RECORDS RECEIVED	DATE	STATUS
Well Summary (Form OG100)	1/8/2014 (2)	Producing <input type="checkbox"/> Drilling <input type="checkbox"/>
History (Form OG103)		Abandoned <input checked="" type="checkbox"/> Idle <input type="checkbox"/>
Core Record (Form OG101)		Reabandoned <input type="checkbox"/> Other <input type="checkbox"/>
Directional Survey		
Sidewall Samples		
Date final records received.		
Electric Logs:		
Other:		
		WELL TYPE
		Oil <input checked="" type="checkbox"/> Waterflood <input type="checkbox"/>
		Gas <input type="checkbox"/> Water Disposal <input type="checkbox"/>
		Water Source <input type="checkbox"/> Cyclic Steam <input type="checkbox"/>
		Observation <input type="checkbox"/> Steam Flood <input type="checkbox"/>
		Exploratory <input type="checkbox"/> Fire Flood <input type="checkbox"/>
		Dry Hole <input type="checkbox"/> Other <input type="checkbox"/>
		EFFECTIVE DATE: 12/21/13
		REMARKS: Abandoned

ENGINEERS CHECK LIST	CLERICAL CHECK LIST
<input checked="" type="checkbox"/> Summary, History & Core Record (Dupl.)	Location change
<input type="checkbox"/> Electric Log	Elevation change
<input checked="" type="checkbox"/> Operator's Name	Form OGD121
<input checked="" type="checkbox"/> Signature	Form OGD150b (Release of Bond)
<input checked="" type="checkbox"/> Well Designation	Duplicate logs to archives
<input checked="" type="checkbox"/> Location	Notice of Records Due
<input type="checkbox"/> Elevation	EDP MC 5-2-14
<input type="checkbox"/> Notices	District Date Base
<input checked="" type="checkbox"/> "T" Reports	Final Letter (OG159)
<input checked="" type="checkbox"/> Casing Record	Update Center MC 5-2-14
<input type="checkbox"/> Plugs	
<input type="checkbox"/> Directional Survey	
<input checked="" type="checkbox"/> Production/Injection (FAP Codes: 412-03--)	
<input type="checkbox"/> E Well on Prod., enter EDP	
<input checked="" type="checkbox"/> Surface Inspection Required	FIELD CHECK LIST
<input type="checkbox"/> Surface inspection Waived (Island)	Date Surface Inspection Completed: 12/19/2013
<input type="checkbox"/> Well site restoration deferred (common cellar)	Other:
<input checked="" type="checkbox"/> Final Letter Required AB: <input checked="" type="checkbox"/> REAB: <input type="checkbox"/>	
<input type="checkbox"/> Other:	

RECORDS NOT APPROVED	RECORDS APPROVED
(Reason:)	<i>DEL 4/30/14</i>
Well Summary (OG100)	(Signature)
Core Record (OG101)	RELEASE BOND
Casing Record	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK



JRAL RESOURCES AGENCY OF CALIFORNIA
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

No. T 114-0090

REPORT ON OPERATIONS

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

Cypress, California
January 29, 2014

Your operations at well "Nwlbu" 8-7, A.P.I. No. 037-22512, Sec. 13, T. 04S, R. 13W, SB B.&M., Long Beach field, in Los Angeles County, were witnessed on 12/24/2013, by Cary Wicker, a representative of the supervisor.

The operations were performed for the purpose of re-abandonment.

DECISION: APPROVED

NOTE: The required Class II3M blowout prevention equipment was inspected and approved on 11/20/2013.

DEFICIENCIES NOTED AND CORRECTED: None

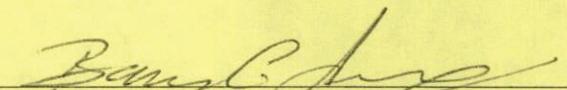
BI/kj

cc: Update
AllenCo

Tim Kustic

State Oil and Gas Supervisor

By



Daniel J. Dudak, District Deputy

T# 114-0090

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CEMENTING/PLUGGING MEMO

Operator C.R.G. Properties, LTD Well No. "Nwlbu" 8-7
 API No. 037-22512 Sec. 13 T. 04 S R. 13 W, SB B&M
 Field Long Beach, County Los Angeles On 12-24-2013
 Mr. / Ms. Cary Wicker representative of the supervisor, was present from 0900 to 1215.

There were also present Mick Beyer (Allenco)

Casing record of well: 13 3/8" cem 1122'; 9 5/8" cem 4715', CP 100', 210', and 2440'; 7" Id 4626'-5847'. TD 5850'. Plugged w/ cem 5425' - 3522', 3058' - 2852', 2440' - 2136', 214' - 6'.

The operations were performed for the purpose of: 3 (Re-abandon)

- The plugging/cementing operations as witnessed and reported are approved.
 The location and hardness of the cement plug @ _____ are approved.

Hole size: 17 1/2 " fr. 50 ' to 1122 ', 12 1/4 " to 4715 ' & 11 " to 5850 '

Casing			Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations	
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus				Casing
9 5/8"	36#	0'	4715'	12/3/2013	tbg@2440'	180 cf	2218'±	2136'	71 cf	1600 psi	2440'-2450'
9 5/8"	36#	0'	4715'	12/6/2013	tbg@214'	234 cf	6'	6	143 cf	600 psi	100'-110', 210'

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

Junk (in hole): _____

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

***mud interval displaced upward 70'± by subsequent cement plug**

Mudding	Date	bbls	Displaced	Poured	Fill	Engineer
72 / 25 #	12/2/2013	32	3580*		3069*	P. Kaufman
72/27	12/3/2013	31	2852'		2450'	R. Morlan
72/35	12/4/2013	146	2136'		250'	T. Tyler

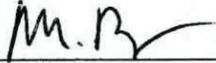
Note: 12 II3M - ZA 11/20/13

C/O @ 5425'; 11-26-2014; M. Chavez (w/ B. Irick approval).

Cement Plugs		Placing		Placing Witnessed		Top Witnessed		
Date	Sx./cf	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
11-27-2013	346 CF	Tbg@5425'	1545	M. Chavez	3580'	2000#	12/2/13 0715	P. Kaufman
12/2/2013 **	25 cf	tbg @ 3580'	1100	P. Kaufman	3522'	----	----	ETOC - not tagged
12/2/2013	78 cf	tbg @ 3058'	1115	P. Kaufman	2852'	2000#	12/3/13 0745	R. Morlan
12/3/2013	180 cf	Tbg @ 2440'	1200	R. Morlan	2136'	2000#	12/4/13 0720	T. Tyler
12/6/2013	234 cf	tbg @ 214'	1345	P. Kaufman	6'	visual	12/24/2013 1030	C. Wicker

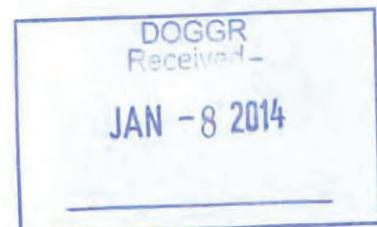
**** press test 9" csg 12/2/13 0820-0835, 690-660 psi**

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" 8-7 Sec. 13 T. 04S R. 13w sbB.&M.
A.P.I. No. 037-22512 Name Mick Beyer Title Operations Manager
(Person submitting report) (President, Secretary, or Agent)
Date 12-15-13
(Month, day, year)
Signature 
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.

- 11-20-13 M.I.R.U. – Installed and tested BOPE–Witnessed by Z. Amilhussin w/DOGGR - Secured Well
- 11-21-13 R.I.H. W/5 ½" Scraper on 2 7/8" tbg. tagged down at 4110' - Circ.with water w/returns of oily water and gas – Witnessed by Z. Amilhussin w/ DOGGR – P.O.H. - Secured well
- 11-22-13 R.I.H.W/Tbg. Tagged fill at 4110' Cleaned out sand to 4250' unable to work deeper – P.O.H.– Secured
- 11-25-13 to 11-26-13 R.I.H. W/ 4 1/8" Drill bit Tagged fill at 4250' drilled hard formation, gravel and cement to 4490' dropped to 5423' circ. Hole clean – P.O.H. Witnessed by T. Tyler w/DOGGR - Secured well.
- 11-27-13 R.I.H. W/ 5 ½" scraper on 2 7/8" tbg. Stopped at 4250' unable to work deeper – P.O.H. – R.I.H. W/Tbg. To 5425' Mixed and pumped 346 cu/ft. (304 sxs) class G cement in 5 stages – All witnessed by M. Chavez w/ DOGGR – Secured well
- 12-02-13 R.I.H.Tagged cement plug at 3580' – Pumped 30 bbls. of 73# mud – W/Tbg. Tail at 3580' mixed and pumped 25 cu/ft.(22 sxs) class G cement – P.O.H.- W/Tbg. Tail at 3060' Mixed and pumped 78 cu/ft.(68 sxs) class G cement - P.O.H. – All Witnessed by P. Kaufman w/ DOGGR – Secured well
- 12-03-13 R.I.H. Tagged cement at 2850' – Pump 30 bbls. 73# mud – Prs. Tested csg. At 1000 psi good – P.O.H. - Shot perforations from 2450' to 2440' – P.O.H.- R.I.H.w/ Tbg. Tail at 1914' mixed and pumped 183 cu/ft (161 sxs) class G cement squeezed away 54 cu/ft.(47 sxs) unable to squeeze any more (s.i.prs.1500 psi) Witnessed by R. Morlan w/ DOGGR - secured well
- 12-04-13 R.I.H. Tagged cement 2136' – Pumped 130 bbls, 73# mud – P.O.H. – R.I.H. Cut 9" casing at 210' – P.O.H. – R.I.H. W/Spear unable to pull casing – Removed B.O.P.E. – Welder cut wellhead bowl – Witnessed by T. Tyler w/DOGGR – Secured well
- 12-05-13 TO 12-06-13 Attempted to pull casing at 80k unable to pull free – R.I.H. W/Cement bond log found cement between casings from 95' to surface - Shot perforation from 110' to 100' – R.I.H. W/tbg. Tail at 210' mixed and pumped 140 cu/ft.(123 sxs) class G cement – cement to surface – P.O.H.- installed wellhead flange and mixed and pumped 95 cu/ft.(83 sxs) Total of 235 cu/ft (s.i. prs.600 psi) Witnessed by P. Kaufman w/DOGGR - R.D.M.O.
- 12-24-13 Dug down around well and cut casing ' below surface – C. Wicker w/DOGGR witnessed surface tag and welding of I.D.Plate - Backfilled well location - Job complete.



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" 8-7 Sec. 13 T. 04S R. 13w sbB.&M.
A.P.I. No. 037-22512 Name Mick Beyer Title Operations Manager
(Person submitting report) (President, Secretary, or Agent)
Date 12-15-13
(Month, day, year)
Signature M. Beyer
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.

- 11-20-13 M.I.R.U. – Installed and tested BOPE–Witnessed by Z. Amilhussin w/DOGGR - Secured Well
- 11-21-13 R.I.H. W/5 ½" Scraper on 2 7/8" tbg. tagged down at 4110' - Circ.with water w/returns of oily water and gas – Witnessed by Z. Amilhussin w/ DOGGR – P.O.H. - Secured well
- 11-22-13 R.I.H.W/Tbg. Tagged fill at 4110' Cleaned out sand to 4250' unable to work deeper – P.O.H.– Secured
- 11-25-13 to 11-26-13 R.I.H. W/ 4 1/8" Drill bit Tagged fill at 4250' drilled hard formation, gravel and cement to 4490' dropped to 5423' circ. Hole clean – P.O.H. Witnessed by T. Tyler w/DOGGR - Secured well.
- 11-27-13 R.I.H. W/ 5 ½" scraper on 2 7/8" tbg. Stopped at 4250' unable to work deeper – P.O.H. – R.I.H. W/Tbg. To 5425' Mixed and pumped 346 cu/ft. (304 sxs) class G cement in 5 stages – All witnessed by M. Chavez w/ DOGGR – Secured well
- 12-02-13 R.I.H.Tagged cement plug at 3580' – Pumped 30 bbls. of 73# mud – W/Tbg. Tail at 3580' mixed and pumped 25 cu/ft.(22 sxs) class G cement – P.O.H.- W/Tbg. Tail at 3060' Mixed and pumped 78 cu/ft.(68 sxs) class G cement - P.O.H. – All Witnessed by P. Kaufman w/ DOGGR – Secured well
- 12-03-13 R.I.H. Tagged cement at 2850' – Pump 30 bbls. 73# mud – Prs. Tested csg. At 1000 psi good – P.O.H. - Shot perforations from 2450' to 2440' – P.O.H.- R.I.H.w/ Tbg. Tail at 1914' mixed and pumped 183 cu/ft (161 sxs) class G cement squeezed away 54 cu/ft.(47 sxs) unable to squeeze any more (s.i.prs.1500 psi) Witnessed by R. Morlan w/ DOGGR - secured well
- 12-04-13 R.I.H. Tagged cement 2136' – Pumped 130 bbls, 73# mud – P.O.H. – R.I.H. Cut 9" casing at 210' – P.O.H. – R.I.H. W/Spear unable to pull casing – Removed B.O.P.E. – Welder cut wellhead bowl – Witnessed by T. Tyler w/DOGGR – Secured well
- 12-05-13 TO 12-06-13 Attempted to pull casing at 80k unable to pull free – R.I.H. W/Cement bond log found cement between casings from 95' to surface - Shot perforation from 110' to 100' – R.I.H. W/tbg. Tail at 210' mixed and pumped 140 cu/ft.(123 sxs) class G cement – cement to surface – P.O.H.- installed wellhead flange and mixed and pumped 95 cu/ft.(83 sxs) Total of 235 cu/ft (s.i. prs.600 psi) Witnessed by P. Kaufman w/DOGGR - R.D.M.O.
- 12-24-13 Dug down around well and cut casing ' below surface – C. Wicker w/DOGGR witnessed surface tag and welding of I.D.Plate - Backfilled well location - Job complete.

DOGGR
Received -
JAN - 8 2014

Irick, Barry@DOC

To: Abdulrahman, Abdulmageed@DOC
Subject: RE: Well NWLBU 8-7

For cementing in well NWLBU 8-7 per the program contained in the Corrected Permit of July 22, 2013:

The bottom plug was to be above the 7" liner. Top of liner @ 4626'. Bottom plug was to be from 3831'-4626' within a 9 5/8" 36# casing.

4626'-3831' = 795' linear
9 5/8" 36# casing conversion factor: 0.4340 cf/lf
795lf x 0.4340cf/lf = **345cf**

346cf was pumped on 11/27/2013.
25cf was pumped on top of 3580' tag on 12/02/2013.

HOWEVER

Tubing tail was at 5423'.
5423'-4626' (TOL) = 797' in 7" casing
7" 26# casing conversion factor: 0.2148 cf/lf
797lf x 0.2148 cf/lf = 171cf in 7" casing

346cf-171cf = 175cf in 9 5/8" casing
9 5/8" 36# casing conversion factor: 2.3038 lf/cf
175cf x 2.3038 lf/cf = 403lf
4626'-403' = 4223'

4223' SHOULD have been the tag after pumping of 346cf.
4223' - 3580' (actual tag) = 643'
643lf x 0.4340cf/lf = 279cf (where is this from?)

OLD PLUG FROM 4242'-4423' IN 9 5/8" CASING
4423'-4242' = 181'
181lf x 0.4340 cf/lf = 78cf (78.5cf) volume of plug

4 1/8" drill bit used to drill through plug.
4 1/8" hole conversion: 0.0928cf/lf or 10.7752 lf/cf
181lf x 0.0928 cf/lf = 17cf (16.8cf) volume of hole drilled through plug
78cf-17cf = 61cf cement left in hole from plug.

279cf-61cf = 218cf (fill/cement ?) unaccounted for in casing.

From: Abdulrahman, Abdulmageed@DOC
Sent: Thursday, December 12, 2013 9:06 AM
To: Irick, Barry@DOC
Subject: FW: Well NWLBU 8-7

"Nwbu" 8-7
API: 037-22512

HAM
Well Class - Oil
12/05/2013

9-5/8", 36#
13-3/8"; 54.5#
0'?

40 cf in 9 5/8" x 13 3/8"
91 cf in 9 5/8" casing

1122'

ETOC 884'

131 cf

234 CF = 143.592' @ 600psi

Hole: 12-1/4" top mul = 458
M & D = 728 CF

0' - 458' = 199 CF
40
239 CF

2218
BFW-2280'±

Log shows salt

U gas zone @ 2500'

Wilbur zone @ 3120'

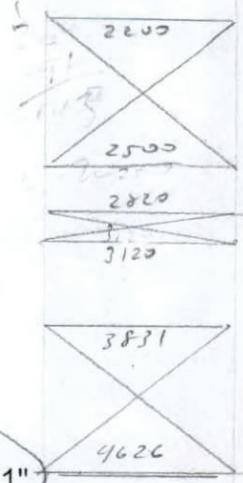
Alamitos @ 4038'

4715'

Brown zone @ 5724'

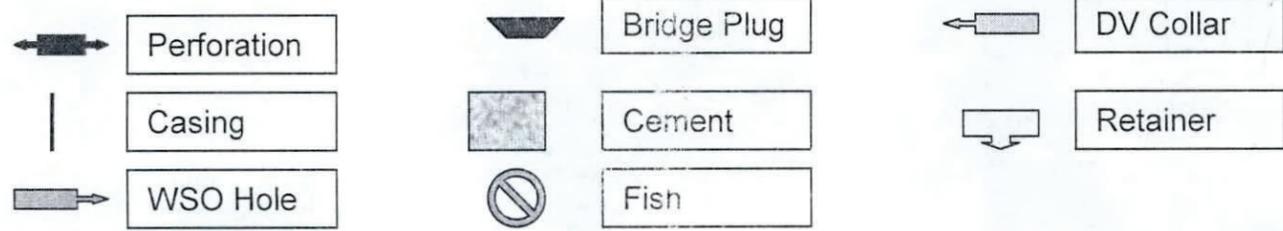
5847'

TD - 5850'



345 CF

346 CF @ 5423 = 3812 (tag?)
tag 3580
+ 25 CF =
3522



Perf: 5724-5777, 4356-4412, 4038 - 40119

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator C.R.G. Properties, LTD Well "Nwlbu" 8-7 Sec. 13 T. 4S R. 13W
 Field Long Beach County L.A. Spud Date _____
VISITS: Date Engineer Time Operator's Rep. Title
 1st 11/20/13 Z. Amilhussin (1630 to 1700) _____
 2nd _____ (_____ to _____) _____
 Contractor Allenco Rig # 2 Contractor's Rep. & Title I. Sandoval, Rig Manager
 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 9 " casing are approved.

Proposed Well Ops: 1. MACP: _____ psi **REQUIRED BOPE CLASS: II3M**
 Hole size: _____ " fr. _____ ' to _____ ' & _____ " to _____ ' _____

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	Townsend	81	9	3M		1						
Rd	cso	Townsend	81	9	3M		1						

ACTUATING SYSTEM				TOTAL: 2		AUXILIARY EQUIPMENT						
Accumulator Unit(s) Working Pressure _____ psi						Connections						
Total Rated Pump Output _____ gpm				Fluid Level		No.	Size (in.)	Rated Press	Weld	Flange	Thread	Test Press.
Distance from Well Bore <u>25</u> ft.				ok								
Accum. Manufacturer		Capacity		Precharge		Fill-up Line						
1		gal.	psi	x			2	3M				x
2		gal.	psi	x			2	3M				x

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

EMERG. BACKUP SYSTEM				Press.		Wkg. Fluid									
N ₂ Cylinders	1	L= 55 "		2,750psi		10 gal.									
Other:	2	L= "				gal.									
	3	L= "				gal.									
	4	L= "				gal.									
	5	L= "				gal.									
	6	L= "				gal.									
TOTAL: 10							gal.	x							

HOLE FLUID MONITORING EQUIPMENT			Alarm Type		Class		Hole Fluid Type		Weight		Storage Pits (Type & Size)	
Calibrated Mud Pit					A		lease water				50 bbl pump, 250 bbl spare	
Pit Level Indicator					B							

REMARKS AND DEFICIENCIES:

CONTRACTOR:

Atterco

UNCORRECTABLE DEFICIENCIES:

DEFICIENCIES NOTED AND TO BE CORRECTED:

DEFICIENCIES NOTED AND CORRECTED:

} none



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

No. P 113-0598

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

PERMIT TO CONDUCT WELL OPERATIONS

**CRITICAL WELL
 CORRECTED COPY**

Cypress, California
 July 22, 2013

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

Your proposal to (Re) Abandon well "Nwlbu" 8-7, A.P.I. No. 037-22512, 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:

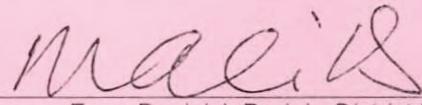
1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
 - a. Class II3M, with hydraulic controls, during abandonment operations.
 - b. A 3M lubricator for wire line operations.
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. The well is cleaned out to 4626'.
4. The well is plugged with cement from 4626' to 3831'.
5. The proposed cement plug from 2600' to 2180' shall extend from 2500' to at least 2200'.
6. 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.
7. Prior to shooting any perforations for braidenhead squeezes, a pressure test of the 9-5/8" casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
8. All casing must be removed from between 5' and 10' below ground level.
9. Well site restoration shall be completed within 60 days following the completion of plugging operations.
10. 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 circumference of the outer casing.
11. 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.
12. No program changes are made without prior Division approval.

(Continue on page 2)

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

Tim Kustic
 State Oil and Gas Supervisor

Engineer Ellen Moser
 Office (714) 816-6847

By 
 For: Daniel J. Dudak, District Deputy

GN/gn

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.

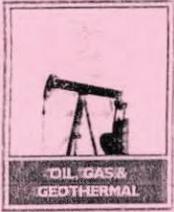
13. THIS DIVISION SHALL BE NOTIFIED TO:

- a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
- b. Witness the clean-out depth at **4426'**.
- c. Witness the placing, location and hardness of the cement plug from **4626' to 3831'**.
- d. Witness the mudding operations.
- e. Witness the placing, location and hardness of the cement plug from **3120' to 2820'**.
- f. Witness the placing, location and hardness of the cement plug from **2500' to 2200'**.
- g. Witness the cement squeeze through the **perforations** at **200'** or through a retainer or packer (if casing integrity is not demonstrated).
- h. Witness the placing, location and hardness of the cement plug from **210' to 0'**.
- i. Inspect the restored well site.

NOTE:

1. 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.
2. Upon completion of the proposed work, a History of Oil or Gas Well (form OG103) shall be submitted to this office.
3. Hydrogen sulfide gas (H₂S) 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 2280'**
 - b. **Top of the Upper Gas Zone 2500'**
 - c. **Top of the Wilbur Zone 3120'**
 - d. **Top of the Alamitos Zone 4038'**
 - e. **Top of the Brown Zone 5724'**

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 & GEOTHERMAL RESOURCES
 5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. P 113-0598

PERMIT TO CONDUCT WELL OPERATIONS

CRITICAL WELL

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

Cypress, California
 July 22, 2013

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

Your proposal to **(Re) Abandon** well "Nwlbu" 8-7, A.P.I. No. **037-22512**, 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:

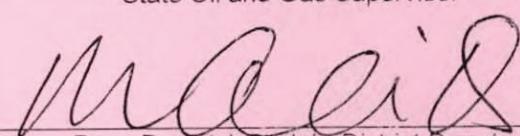
1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
 - a. Class **II3M**, with hydraulic controls, during **abandonment** operations.
 - b. A **3M** lubricator for **wire line** 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. A diligent effort shall be made to clean out to **4242'**.
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 **9-5/8"** 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 proposed cement plug from **3120'** to **2920'** shall extend from **3130'** to at least **2930'**.
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. 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 circumference of the outer casing.
10. 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.
11. No program changes are made without prior Division approval.
 - a. Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.

(Continue on page 2)

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

Engineer Ellen Moser
 Office (714) 816-6847

Tim Kustic
 State Oil and Gas Supervisor

By 
 For: Daniel J. Dudak, District Deputy

GN/gn

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.

- b. Witness the clean-out depth at **4242'**.
- c. Witness the placing, location and hardness of the cement plug from **3130'** to **2930'**.
- d. Witness the mudding operations.
- e. Witness the placing, location and hardness of the cement plug from **2600'** to **2180'**.
- f. Witness the cement squeeze through the **perforations** at **200'** or through a retainer or packer (if casing integrity is not demonstrated).
- g. Witness the placing, location and hardness of the cement plug from **210'** to **0'**.
- h. Inspect the restored well site.

NOTE:

1. 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.
2. Upon completion of the proposed work, a History of Oil or Gas Well (form OG103) shall be submitted to this office.
3. Hydrogen sulfide gas (H₂S) 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 2280'**
 - b. **Top of the Upper Gas Zone 2500'**
 - c. **Top of the Wilbur Zone 3120'**
 - d. **Top of the Alamitos Zone 3930'**
 - e. **Top of the Brown Zone 4380'**

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

113-0599
 OJ
 EL

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

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" 8-7, API No. 037-22512

(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: 5847 feet. The effective depth is: 4243 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: 2280 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 <i>M. B.</i>	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
 p. Elox 7/10/13

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/

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

C.R.G. Properties, Ltd. Well "Nwlbu" 8-7 (037-22512), 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:** See map Exhibit A - Attachment II
2. **Accessibility:**
3. **Status:** Idle deserted
4. **Total Depth:** 5847' **Effective Depth:** 4243, **Elevation of Kelly Bushing (KB) above sea level:** 55.5'.
5. **Casing:** 13-3/8" cemented at 1122'; 9 5/8" casing cemented at 4715', cemented to 884' behind pipe; 7" casing landed from 4626' to 5847', perf @ int. 5724-5777', perf 4038'-4119 & perf int @ 4356-4412'. TD 5847'. Plugged w/cem 5777'-5583' & 4423'-4242'.
6. **Tubing:** Unknown **Rods:** Unknown
7. **Base of Fresh Water (BFW):** 2280'
8. **Producing Zone(s):** Brown
9. **Hole Fluid:** Unknown
10. **Junk:** Unknown
11. **Plugs:** 5777'-5583' & 4423'-4242'.
12. **Comments:** Top of Brown zone 4380', top of Alamitos zone 3930', top of Wilbur zone 3120', and top of Upper Gas zone 2500'.

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 II 3M, 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.
6. Kill well. Install and function test rod Reagan or equivalent BOPE. Pull out of the hole with rods and pump.

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

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 4243'.
10. Run in scraper. Scrape the 7" casing.
11. Run in hole with tubing (if tag high, clean out fill to 4243).
12. The well shall be plugged with cement from 4243' to 3730'.
13. The well shall be plugged with cement from 3120' to 2920.
14. The well shall be plugged with cement from 2600' to 2180.
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 packer is required for squeeze operations.
16. The 9-5/8" casing shall be perforated from 210 to 200'. Get an injection rate or a breakdown.
17. Sufficient cement shall be squeezed into the perforations to fill to surface.
18. The well shall be plugged with cement from 210' to surface.
19. All casing must be removed from between 5' and 10' below ground level.
20. 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.
21. Cellar, production pads and pipelines shall be removed and the resulting excavations filled with earth and compacted properly to prevent settling.
22. 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.
23. 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.
24. 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.

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2 Legal Office
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5 Telephone (916) 323-6733
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8 **STATE OF CALIFORNIA**
9 **NATURAL RESOURCES AGENCY**
10 **DEPARTMENT OF CONSERVATION**
11 **DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES**
12

13 **FORMAL ORDER TO:**
14 **PLUG AND ABANDON WELLS &**
15 **RESTORE LEASE CONDITIONS**
16
17

18 **NO. 1032**

19 **Dated: October 17, 2012**

20 **Operator: C.R.G. Properties, Ltd. (C0250)**
21
22

23 **BY**

24 **Tim Kustic**

25 **STATE OIL AND GAS SUPERVISOR**
26
27