

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P -1-15688

Los Angeles

Cal.

Nov. 28

192 8

Mr. L.B. Little

Whittier

Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA Company

DEAR SIR:

Your supplementary proposal to drill Well No. "SAN GABRIEL" 17,  
Section 11, T. 5 S, R. 12 W, S.B. B. & M., Seal Beach Oil Field, Los Angeles County,  
dated Nov. 22 192 8, received Nov. 27 192 8, 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 quoted below.

THE NOTICE STATES:

"The new conditions are as follows:

Depth - 4839'

Csg. Record - 18" - 505' Cmtd. Not tested.

11 3/4" - 4638' " W.S.O.

9" - 4818' " and recemented 3 times.

The test of W.S.O. on the 9" csg. was approved with the hole cleaned out to 4820'.

Subsequent tests with the cement plug cleaned out show salt water entering the hole."

PROPOSAL:

"We now propose (Confirming conversation Copley-Richards)

1. Deepen to 5150' and cement 6-5/8" csg. at 5150' in the Lower Wasem Zone.

2. Deepen to 5350 and land 4 1/2" perforated liner.

3. Your department will be notified to witness mud circulating test prior to landing the 6-5/8" casing and for a test of W.S.O. on the same. The exact depth for effecting a W.S.O. and for completion will be determined by coring."

DECISION:

THE PROPOSAL IS APPROVED.

cc--J. M. Atwell  
G. L. Andrews  
Long Beach

SGD:ML

R. D. BUSH

State Oil and Gas Supervisor

By *[Signature]* Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING  
DEPARTMENT OF PETROLEUM AND GAS

DIVISION OF MINES & MINING  
RECEIVED  
NOV 27 1928  
Department of Petroleum and Gas  
LOS ANGELES, CALIFORNIA

Supplementary Notice

Whittier Cal. November 22, 1928

Mr. E. Huguenin

Deputy State Oil and Gas Supervisor

Los Angeles Cal.

DEAR SIR:

Please be advised that our notice to you dated September 27 1928,

stating our intention to Drill well No. San Gabriel #17  
(Drill, deepen, redrill, abandon)

Sec 11, T. 5:S, R. 11:W, S.B. B. & M. Seal Beach Oil Field,

Los Angeles County, must be amended on account of changed or recently

discovered conditions.

The new conditions are as follows:

Depth - 4839'

Csg. Record - 18" - 505' Cmtd. Not tested.

11-3/4" - 4638' " W.S.O.

9" - 4818' " and recemented 3 times.

The test of W.S.O. on the 9" csg. was approved with the hole cleaned out to 4820'. Subsequent tests with the cement plug cleaned out show salt water entering the hole.

We now propose (Confirming conversation Copley & Richards)

1. Deepen to 5150' and cement 6-5/8" csg. at 5150' in the Lower Wasem Zone.
2. Deepen to 5350 and land 4-3/4" perforated liner.
3. Your department will be notified to witness mud circulating test prior to landing the 6-5/8" casing and for a test of W.S.O. on the same. The exact depth for effecting a W.S.O. and for completion will be determined by coring.

*sup drill*

Respectfully yours

Reference to file of data

STANDARD OIL COMPANY OF CALIFORNIA

(Name of Company)

APPROVED	Position	Signature
	Division Superintendent	<i>[Signature]</i>

By

*[Signature]*

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING  
DEPARTMENT OF PETROLEUM AND GAS

DIVISION OF MINES & MINING  
RECEIVED  
OCT 31 1928  
Department of Petroleum and Gas  
LOS ANGELES, CALIFORNIA

Notice of Test of Water Shut-Off

This notice must be given at least five days before the test, and a longer time is desirable

Whittier, Cal. October 26, 1928

MR. E. Huguenin  
Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to test the shut-off of water in well No. San Gabriel #17, Sec. 11, T. 5-S., R. 12-W., S.B. B. & M., Seal Beach Oil Field, Los Angeles County, on the 30th day of October, 1928. 9 inch 45 lb. casing was landed/cemented in sandy brown shale at 4818 (Formation) (Depth) on October 25, 1928 (Date)

45 sacks Golden Gate (Kind) of cement were used.

The Tubing - cement treated with calcium chloride method was used in placing cement.

Fluid level will be bailed to a depth of 2000 feet and left undisturbed for at least 12 hours before your inspection.

The well is 4839 feet deep. There is/is not a plug or bridge from feet to feet.

Respectfully yours

STANDARD OIL COMPANY OF CALIF. (Name of Company or Operator)

By G. L. Andrews

Reference to file of data

M	Maps	Cross-section	Cards	Forms

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

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Department of Petroleum and Gas  
LOS ANGELES, CALIFORNIA

Notice of Test of Water Shut-Off

This notice must be given at least five days before the test, and a longer time is desirable

Whittier, Cal. October 15, 1928

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

Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to test the shut-off of water in well number San Gabriel No. 17, Sec. 11, T. 5: S., R. 11: W., S. B. B. & M., Seal Beach Oil Field, Los Angeles County, on the 19th day of October, 1928. 9 inch 45 lb. casing was landed/cemented in sandy brown shale at 4818 (Formation) (Depth) on October 14, 1928 (Date)

50 sacks Golden Gate (Kind) of cement were used.

The Perkins - all cement treated with calcium chloride method was used in placing cement.

Fluid level will be bailed to a depth of 2000 feet and left undisturbed for at least 12 hours before your inspection.

The well is 4839 feet deep. There is/is not a plug or bridge from feet to feet.

Respectfully yours

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

By G. L. Andrews

Reference to file of data

M	Station	Position	Cards	Forms
	10/22/28			
	P.O.A.			

Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Special Report on Operations Witnessed

No. T -1-15524

Los Angeles Cal. October 17 1928

Mr. L. B. Little

Whittier Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA Company

DEAR SIR:

Operations at your well No. "SAN GABRIEL" 17 Section 11, T. 5-S, R. 12-W, S. B. B. & M., Seal Beach Oil Field, in Los Angeles County, were witnessed by

L. W. Richards, representative of the supervisor,

on October 10, 1928. There were also present W. Eardley, Engineer, and

E. Preston, Driller

Casing Record 18" cem. 505'; 11 1/2" cem. 4638', N.T.

The operations were performed for the purpose of demonstrating that the formations between 4638' and 4818' were mudded until the loss was not more than 1 bbl. per hr.

and the data and conclusions are as follows:

MR. EARDLEY REPORTED THE FOLLOWING:

1. The 6-5/8" liner was removed.
2. A 10-5/8" rotary hole was drilled from 4638' to 4839'.
3. Mud fluid was circulated for 13 hr. prior to the test.
4. The initial rate of loss was 2 bbl. per hr.
5. The final rate of loss was 1 bbl. per hr.
6. The drill pipe was hanging at 4837' during the test.
7. Shale was cored from 4789' to 4818', and oil sand from 4818' to 4839'.

THE INSPECTOR NOTED that during a circulation test from 11 a.m. to 11:30 a.m. no mud fluid was lost from the pit.

THE MUDDING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval given to cement 9" casing at 4818' is hereby confirmed.

cc: J. M. Atwell  
G. B. Andrews  
Blag Beach

LWR:BB

AA

R. D. BUSH

State Oil and Gas Supervisor

By *[Signature]* Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P-1-18391

Los Angeles Cal. Oct. 2 1928

Mr. L. B. Little

Whittier Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA ~~Company~~ *102*

DEAR SIR:

Your supplementary proposal to drill Well No. "SAN GABRIEL" 17,  
Section 11, T. 5 S, R. 12 W, S.B. B. & M., Seal Beach Oil Field, Los Angeles County,  
dated Sept. 27 1928, received Oct. 1 1928, 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 quoted below.

THE NOTICE STATES:

"The new conditions are as follows:

Depth - 4680'

Csg. record: 18" - 505' cemented. Not tested.

11 3/8" - 4638' " W.S.O.

6-5/8" - 4680' - 67' liner including 24' 7" 40# 130 M Kobe perforated.

Subsequent to making the test of W.S.O. the hole was drilled into the Upper Selover Zone and tests showed the zone to be wet with no commercial production."

PROPOSAL:

"We now propose (Confirming conversation Richards & Eardley)

1. Recover 6-5/8" liner.
2. Deepen to Lower Selover Zone and cement 9" 45# csg. at about 4800'.
3. Complete well at about 4840' and land 6-5/8" oil string.
4. Your dept. will be notified to witness mud circulation test prior to landing the 9" csg. and to witness a test of W.S.O. on the same. The point for effecting a shut-off and completion depth to be determined by coring."

DECISION:

THE PROPOSAL IS APPROVED.

cc--J. M. Atwell  
G. L. Andrews  
Long Beach

ABH:ML

N.

R. D. BUSH

State Oil and Gas Supervisor

By *R. D. Bush* Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING  
DEPARTMENT OF PETROLEUM AND GAS

DIVISION OF MINES & MINING  
S. RECEIVED  
J. M. A.  
W. OCT - 1 1928  
Department of Petroleum and Gas  
LOS ANGELES, CALIFORNIA

Supplementary Notice

Whittier Cal. September 27 1928

Mr. E. Huguenin

Deputy State Oil and Gas Supervisor

Los Angeles Cal.

DEAR SIR:

Please be advised that our notice to you dated July 12 1928,

stating our intention to drill well No. San Gabriel 17

(Drill, deepen, redrill, abandon)

Sec. 11, T. 5:S, R. 11:W, S. B. B. & M. Seal Beach Oil Field,

Los Angeles

County, must be amended on account of changed or recently

discovered conditions.

The new conditions are as follows:

Depth - 4680

Csg. Record:

18" - 505' Cemented Not Tested  
11-3/4" 4638' " W. S. O.

6-5/8" 4680' - 67' liner including 24' 7" 40# 130 M Kobe Perforated.

Subsequent to making the test of W. S. O. the hole was drilled into the Upper Selover Zone and tests showed the zone to be wet with no commercial production.

We now propose (Confirming conversation Richards & Eardley)

1. Recover 6-5/8" liner.
2. Deepen to Lower Selover Zone and cement 9" 45# csg. at about 4800'.
3. Complete well at about 4840' and land 6-5/8" oil string.
4. Your Dept. will be notified to witness mud circulation test prior to landing the 9" csg. and to witness a test of W.S.O. on the same. The point for effecting a shut-off and completion depth to be determined by coring.

Respectfully yours

*sup drill*

Approved *[Signature]*  
Division Superintendent

STANDARD OIL COMPANY OF CALIFORNIA  
(Name of Company)

By *[Signature]*

Copy	Model	Section	Division Superintendent

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off  
(BAILING)

No. T -1-15290

Los Angeles Cal. Sept. 12 1928

Mr. L. B. Little

Whittier Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA Company

DEAR SIR:

Your well No. "SAN GABRIEL" 17, Sec. 11, T. 5 S, R. 12 W, S.E. B. & M., Seal Beach Oil Field, in Los Angeles County, was tested for

shut-off of water on August 31, 1928 Mr. L. W. Richards designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present W. Eardley, Engineer and C. Brewster, Foreman

Location of water tested above 4638' and normal fluid level not reported

Depth and manner of water shut-off: { 4638 ft. of 11 3/4 in. 60 lb. } re-cemented 8/24/28 in shale  
{ ft. of in. lb. } casing was landed Formation

at 4638 ft. with 125 sacks Golden Gate cement by Tubing method.

Water string was landed in 16 1/2" rotary hole.

Casing record of well 18" S.P. cem. 505'; 11 3/4" as above.

Reported total depth of hole 4654 ft. Hole bridged from - ft. to - ft. Hole cleaned out to 4654 ft. for this test.

At time of test depth of hole measured 4647 ft. and bailer brought up sample of shale

At 3 a.m. August 31, 1928 oil bailed to no oil ft., drilling fluid { bailed } to 1800 ft.  
{ swabbed }

At 3 p.m. August 31, 1928 top of oil found at no oil ft., top of fluid found at 1785 ft.

Result of test:

MR. EARDLEY REPORTED THE FOLLOWING:

1. On August 16, 1928, the 11 3/4" casing was cemented with 500 sacks of Golden Gate cement by Perkins method. The last 100 sacks of cement was treated.
2. 64' of set cement was drilled out of the 11 3/4" casing, equivalent to 34 sacks.
3. The water was not shut off.
4. The 11 3/4" casing was recemented as above.
5. 142' of set cement was drilled out of the 11 3/4" casing, equivalent to 75 sacks.
6. All the cement was treated with quick setting chemical.

THE INSPECTOR NOTED THE FOLLOWING:

1. The fluid rose 15' in 12 hr., equivalent to 3.3 bbl. per 24 hr.
2. Samples of the fluid taken from the depths of 1785' consisted of very light mud fluid and from 4647' of heavy mud fluid showing a little gas.

THE SHUT-OFF IS APPROVED.

cc--G. L. Andrews - J. M. Atwell

LWR:ML  
N.

Long Beach

R. D. BUSH

State Oil and Gas Supervisor

By *E. Augustini* Deputy

DIVISION OF MINES & MINING  
RECEIVED  
SMB  
JMA  
WNT  
AUG 20 1928  
Department of Petroleum and Gas  
LOS ANGELES, CALIFORNIA  
FILE

# CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

## Notice of Test of Water Shut-Off

This notice must be given at least five days before the test, and a longer time is desirable

Whittier, Cal. August 20, 1928

Mr. E. Huguenin,  
Deputy State Oil and Gas Supervisor  
Los Angeles Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to test the shut-off of water in well number San Gabriel 17, Sec. 11, T. 5-S, R. 12-W, S.B. B. & M., SEAL BEACH Oil Field, Los Angeles County, on the 21st day of August, 1928. 11 3/4" inch 60 lb. casing was landed/cemented in Hard sandy shale at 4638' (Formation) (Depth) on August 17, 1928 (Date)

500 sacks Golden Gate (Kind) of cement were used.

The Perkins (last 100 sks treated with Cal. Chloride) method was used in placing cement.

Fluid level will be bailed to a depth of 1800 feet and left undisturbed for at least 12 hours before your inspection.

The well is 4654 feet deep. There is/is not a plug or bridge from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

Respectfully yours

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

By G. Andrews

*Handwritten notes:*  
9/8/29  
Copy - Bolman  
Checked -  
wants to deepen + 7450 -  
Plug 7" or more in porosity +  
Production - 5450. CP 5200/amp  
Sand OK & need 7400 - OK  
copy file contact -  
EJA

Reference to file of data

Made	Model	Cards	Files
	BBN		

Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P-1-17841

Los Angeles

Cal.

July 18 1928

Mr. L. B. Little

Whittier

Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA Company

DEAR SIR:

Your proposal to drill Well No. "SAN GABRIEL" 17, Section 11, T.5-S, R. 12-W, S.B. B. & M., Seal Beach Oil Field, Los Angeles County, dated July 12 1928, received July 16 1928, has been examined in conjunction with records filed in this office.

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

THE NOTICE STATES:

"The well is 1494.4 feet S. and 857.6 feet E. from N.W. corner Sec. 11-5-11. The elevation of the derrick floor above sea level is 10.23' U.S.G.S. We estimate that the first productive oil or gas sand should be encountered at a depth of about 4670 feet, more or less."

PROPOSAL:

"We propose to use the following strings of casing either cementing or landing them as here indicated: (Confirming conversation Copley & Roberts)

Size of Casing	Weight	New or Second Hand	Depth	Landed or Cemented
28"	Stovepipe	New	60	Cemented
18"	"	"	550	"
11 3/4"	60	"	4670	"
9"	45	"	4690	Landed

Mud fluid of a quality consistent with good drilling practice will be used in drlg. this well. The mud column will be maintained to the surface during drilling operations. The exact depth for effecting a W.S.O. over the Selover zone will be determined by coring. Your department will be notified to witness a mudding test prior to landing the 11 3/4" csg. and a test of W.S.O. on the same. 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.

cc-J.M.Atwell  
G.L.Andrews  
Long Beach

GSF:BB

J.S.

R. D. BUSH

State Oil and Gas Supervisor

By E. Auger Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING  
DEPARTMENT OF PETROLEUM AND GAS

037-08532  
DIVISION OF MINES AND MINING  
RECEIVED  
JUL 16 1928  
S.M.B.  
M.A.  
W.V.T.  
G.L.A.  
Department of Petroleum & Gas  
LOS ANGELES, CALIFORNIA.

Notice of Intention to Drill New Well  
This notice must be given before drilling begins

CHEVRON U.S.A. INC.

Whittier, Cal. July 12, 1928

Mr. E. Huguenin

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

"SAN GABRIEL" 17

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 number San Gabriel 17, Section 11, T. 5:S, R. 11:W, S.B.B. & M., Seal Beach Oil Field, Los Angeles County.

The well is 1494.4 feet N or S, and 857.6 feet E. or W from N.W. corner Sec. 11-5-11  
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is 10.23 U.S.C.S. feet.

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

Confirming conversation Copley & Roberts

Size of Casing, Inches	Weight, Lb. Per Foot	New or Second Hand	Depth	Landed or Cemented
28"	Stovepipe	New	60	Cemented
18"	"	"	550	"
11-3/4"	60	"	4670	"
9"	45	"	4690	Landed

Mud fluid of a quality consistent with good drilling practice will be used in drlg. this well. The mud column will be maintained to the surface during drlg. operations. The exact depth for effecting a W.S.O. over the Selover zone will be determined by coring. Your Dept. will be notified to witness a mudding test prior to landing the 11-3/4" csg. and a test of W.S.O. on the same.

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 4670 feet, more or less.

Respectfully yours

APPROVED: W. J. Thompson  
Address: Division Superintendent

STANDARD OIL COMPANY OF CALIF.  
(Name of Company or Operator)

Telephone number \_\_\_\_\_

By J. Andrews

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

Reference to file of data

32	7-16-28	7-16-28	Cards	Forms

Lease consists of: \_\_\_\_\_

13-7-16-28  
mealy



# Department of Conservation


[Oil, Gas & Geothermal](#)
[Well Search Help](#)
[Online Data](#)

## Division of Oil, Gas, and Geothermal Resources - Well Search

### Well Information

<b>API #</b>	<b>Lease</b>	<b>Well #</b>	<b>County</b>	<b>District</b>		
03708535	San Gabriel	20	Los Angeles[037]	1		
<b>Operator</b>	<b>Field</b>		<b>Area</b>			
Chevron U.S.A. Inc.[C5640]	Seal Beach[688]		Alamitos[03]			
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Base</b>	<b>Well Status</b>	<b>Latitude</b>	<b>Longitude</b>
11	05S	12W	Meridian SB	Plugged & Abandoned	33.757089	118.111105

### Sum By

 County: **Los Angeles [037]**

 Field: **Seal Beach [688]**

 Operator: **Chevron U.S.A. Inc. [C5640]**

 Lease: **San Gabriel**

## Well Records

File Name	Type	Size	Modified on
03708535_2016-02-12_DATA.PDF	PDF	14.00 MB	2/12/2016

## Production Data

 Show  entries

&lt;&lt; First &lt; Previous Next &gt; Last &gt;&gt;

Showing 0 to 0 of 0 entries

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

**REPORT OF PROPERTY AND WELL TRANSFER**

Field or County Imperial Co., Wilmington, L.A. Co., W. Coyote, Montebello, Beverly Hills, Seal Beach, El Segundo, Inglewood, Rosecrans, Venice Beach, Las Cienegas, S. Salt Lake, Dominguez, Hyperion, Lawndale, Leffingwell, Long Beach, Los Angeles Downtown, Potrero, Salt Lake, Santa Fe Springs, Cheviot Hills, Sherman, Torrance, Whittier, Howard Townsite, Huntington Beach, Yorba Linda, Orange Co., Richfield, Kraemer, W. Newport, Sunset Beach, Belmont Offshore	District District 1 (Cypress, California)
Former owner ChevronTexaco Exploration & Production Co.	C5680
Date 9/23/2005	

Well Name	API Number	Section Township Range
See Attached List  For Complete List of Wells See Operator Folder (C5640) Chevron U.S.A. Inc. Dist. 1, Cypress, CA	See Attached List  For Complete List of Wells See Operator Folder (C5640) Chevron U.S.A. Inc. Dist. 1, Cypress, CA	See Attached List  For Complete List of Wells See Operator Folder (C5640) Chevron U.S.A. Inc. Dist. 1, Cypress, CA

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

Date of transfer 7/11/2005	New owner Chevron U.S.A. Inc. <b>C5640</b>	Type of organization Corp.
	Address: 9525 Camino Media Bakersfield, CA 93311	Telephone 661/654-7065
Reported by	OG30A received in Sacramento 9/2005	
Confirmed by	Same as above	
New operator new status <b>PA</b>	Designation of Agent Greg Leyendecker, Agent	
Old operator new status <b>AB</b>	Remarks For further information see Operator file (C5640) Chevron U.S.A. Inc.	

<b>OPERATOR STATUS ABBREVIATIONS</b>	Deputy Supervisor  R. K. Baker	Signature  Richard K. Baker, District Deputy																																				
<i>PA - Producing Active</i> <i>NPA- No potential, Active</i> <i>PI- Potential Inactive</i> <i>NPI-No potential, Inactive</i> <i>AB-Abandoned or No More Wells</i>	<b>FORM AND RECORD CHECK LIST</b>																																					
cc: Update; Envir Desk (2); File Conservation Committee Harold W. Bertholf, Inc. L.A. & Orange County Assessors WellStats - Cypress Dist. 1 WellStats - Sacramento HQS	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Form or Record</th> <th>Initials</th> <th>Date</th> <th>Form or Record</th> <th>Initials</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Form OGD121</td> <td>—</td> <td>—</td> <td>Map and Book</td> <td>—</td> <td>—</td> </tr> <tr> <td>Operator Card</td> <td>Ⓞ</td> <td>9-23-05</td> <td>Notice cancellations</td> <td>—</td> <td>—</td> </tr> <tr> <td>Well Records</td> <td>Ⓞ</td> <td>9/26/05</td> <td>Bond Status</td> <td>BB</td> <td>Ⓞ 9-23-05</td> </tr> <tr> <td>Log Records</td> <td>Ⓞ</td> <td>9/26/05</td> <td>EDP</td> <td>HQS</td> <td>J.C 7-11-05</td> </tr> <tr> <td>Production Reports</td> <td>—</td> <td>—</td> <td>Data Base</td> <td>edey DL</td> <td>Ⓞ 9-26-05</td> </tr> </tbody> </table>	Form or Record	Initials	Date	Form or Record	Initials	Date	Form OGD121	—	—	Map and Book	—	—	Operator Card	Ⓞ	9-23-05	Notice cancellations	—	—	Well Records	Ⓞ	9/26/05	Bond Status	BB	Ⓞ 9-23-05	Log Records	Ⓞ	9/26/05	EDP	HQS	J.C 7-11-05	Production Reports	—	—	Data Base	edey DL	Ⓞ 9-26-05	
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Production Reports	—	—	Data Base	edey DL	Ⓞ 9-26-05																																	

# WELL TRANSFER NOTICE

Effective August 22, 2002

**Chevron USA Inc.  
Texaco California Inc.  
And  
Texaco Exploration and Production, Inc.**

Transferred ALL THEIR WELLS  
To

**ChevronTexaco Exploration & Production Company**

*See OGD156 dated October 18, 2002 in Operator File for ChevronTexaco  
Exploration & Production Company (C5680) for details*

See Ownership file, CHEVRON U.S.A. INC., for Form 156 dated 1-12-77 listing all wells (Imperial, Los Angeles, and Orange Counties) transferred effective 1-1-77 from Standard Oil Co. of Calif. (change of operating name).

CLERK

(27)

RECEIPT FOR

Date Received 12-19-56 Form 100 101 103

New Well Records

Elec. Log \_\_\_\_\_ Radio Log \_\_\_\_\_

Subsequent Work

Direct. Surv. \_\_\_\_\_ Other Data Hist of abandon

Well Summary

(100)

Location \_\_\_\_\_

Drillers Log \_\_\_\_\_

(101)

Elevation \_\_\_\_\_ Clerk Scott

Core Record \_\_\_\_\_

(101)

History

(103)

Prod. Repts. \_\_\_\_\_ Clerk \_\_\_\_\_

Elec. Log \_\_\_\_\_

Other \_\_\_\_\_

ENGINEER

6/5 BOND Blanket Release \_\_\_\_\_ Date Elig. \_\_\_\_\_ 150b \_\_\_\_\_

End Prem. Year \_\_\_\_\_ Release Requested \_\_\_\_\_ Superseded \_\_\_\_\_

Aband. \_\_\_\_\_

Redrill \_\_\_\_\_

HOLD BOND \_\_\_\_\_ Reason \_\_\_\_\_

Deepen \_\_\_\_\_

Data needed None

Alter Csg. \_\_\_\_\_

Final Letter  Eng. key

Abandon

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

27

REPORT OF WELL ABANDONMENT

Los Angeles ..... California

December 27 1956 .....

Mr. W C Johnson .....  
Box 397 .....  
La Habra California .....  
Agent for STANDARD OIL CO OF CALIFORNIA .....

DEAR SIR:

Your report of abandonment of Well No. "San Gabriel" 20 .....,  
Sec. 11, T. 5 S., R. 12 W., S B B. & M., Seal Beach ..... field,  
Los Angeles ..... County, dated November 23, 1956 ....., has been  
examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which  
are based on all information filed with it, have been fulfilled.

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
NE 0 1/2 32 Yq 1/16/57	um		Blanket	EB	M. J.

cc Mr E H Musser  
Mr K B McNamara  
Mr C W Gibbs  
Long Beach  
Conservation Committee  
Mr L A Dutton  
Fire Prevention Bureau

E. H. MUSSER  
State Oil and Gas Supervisor

By R. M. Halling Deputy Supervisor

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## Special Report on Operations Witnessed

No. T156-1298

Mr. W C Johnson  
P O Box 397  
La Habra California  
Agent for STANDARD OIL CO OF CALIFORNIA

Los Angeles 15 Calif.  
August 27 19 56

DEAR SIR:

Operations at your well No. "San Gabriel" 20 Sec. 11, T5 S, R. 12 W, S B B. & M., Seal Beach Field, in Los Angeles County, were witnessed on August 20, 1956. Mr. G. Hazenbush, Engineer, representative of the supervisor was present from 4:00 to 5:00 p.m. There were also present R. Daharsh, Foreman, R. Riddle, Foreman.

Present condition of well: 28" cem. 60'; 18" cem. 567'; 11-3/4" cem. 4928', d.d., shot and pulled from 687'; 9" ld. 4227'-5520', c.p. 5122'-5139', perf. 5121'-5160', 5599'-5609'; 6-5/8" cem. 4471'-6172', perf. 5121'-5160', 5599'-5609', cut at 4680' and 5000'; 4-3/4" ld. 6132'-6330', perf. 6162'-6330'; T.D. 6375', plugged with cement 6375'-6065', 5848'-4433', 4220'-4169', 715'-499', 20'-5'; Junk (cem. in hole) 6318'-5850'.

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

Mr. ~~XXXXXXXXXX~~ reported:

ENGINEER G. HAZENBUSH VISITED THE WELL FROM 2:00 - 3:00 P.M., AUGUST 15, 1956, AND MR. RIDDLE REPORTED: 1. The well was cleaned out to the top of cement at 5650'.  
2. On August 13 and 14, 1956, 138 sacks of cement was pumped into the hole (in 3 stages) through 2 1/2" tubing hanging at 5640', filling to 4433'.

THE ENGINEER NOTED: 1. The cement plug at the reported depth of 4433' supported all the weight of the 2 1/2" tubing.

2. The driller's tally showed 4433' of 2 1/2" tubing in the hole.

ENGINEER G. HAZENBUSH VISITED THE WELL FROM 8:00 - 9:00 A.M., AUGUST 20, 1956, AND MR. DAHARSH REPORTED: 1. A wood plug was driven to the 9" casing stub at 4227'.

2. On August 15, 1956, 30 sacks of cement was dumped into the hole beginning at 4227'.

3. The top of the cement was located at 4169'.

4. The 11-3/4" casing was shot at 687' and pulled from that depth.

5. On August 20, 1956, 248 sacks of cement plus 20% sand was pumped into the hole (in 2 stages) through 2 1/2" tubing hanging at 715', filling to 499'.

THE ENGINEER NOTED: 1. The cement plug at the reported depth of 499' supported all of the weight of the 2 1/2" tubing.

2. The driller's tally showed 499' of 2 1/2" tubing in the hole.

THE ENGINEER ARRIVED AT THE WELL AT 4:00 P.M. AND MR. DAHARSH REPORTED:

1. The hole was bridged at 20' with a wood plug.

2. On August 20, 1956, 17 sacks of cement was poured into the hole.

THE ENGINEER NOTED THAT THE TOP OF THE CEMENT IN THE 18" CASING WAS AT THE CELLAR FLOOR, 5' BELOW THE GROUND SURFACE.

THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

GH:OH

cc Messrs K B McNamara  
C W Gibbs  
Long Beach

E. H. MUSSER  
State Oil and Gas Supervisor

By K. W. Walling Deputy  
75K

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

No. P 156-1151

Mr. W C Johnson  
P O Box 397  
LA HABRA California  
Agent for STANDARD OIL CO OF CALIFORNIALos Angeles 15 Calif.  
August 9, 1956

DEAR SIR:

Your \_\_\_\_\_ proposal to abandon Well No. "San Gabriel" 20  
Section 11, T. 5 S, R. 12 W, S B B. & M., Seal Beach Field, Los Angeles County,  
dated Aug. 7, 1956, received Aug. 8, 1956, has been examined in conjunction with records filed in this office.

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

## THE NOTICE STATES

"The present condition of the well is:

1. Total Depth: 6375' Plug 5650-5848'  
6065-6375' w/cmt.
2. Complete casing record, including plugs:
 

28"	cemented at	60'
18"	"	" 567'
11-3/4"	"	" 4928' Deferred decision
- 1293' 9" landed " 5520' Perfd 5139-5520' C.P. 5122-5139'. Gun perfd. 5121-5160' & 5599-5609'. Splice at 4227'. Tested OK
- 1701' 6-5/8" cemented at 6172' Gun perfd 5121-5160' & 5599-5609 Cut at 4680' & 5000'.
- 198' 4-3/4" landed at 6330' Perfd 6162-6330'.
- Junk: 468' of 2" tubing cemented in place from 5850-6318'.

3. Last Produced	Nov. 1955	0	213
	(Date)	(Oil, B/D)	(Water, B/D)"

## PROPOSAL

"The proposed work is

1. Bail hole clean to 5650' (top of plug).
2. Plug 6-5/8" casing w/cement from 5650-5050'.
3. Cap 6-5/8" and 9" stubs with 50' lineal feet of cement.
4. Fill hole with mud and attempt to cut and recover 11-3/4" from 620' or lower. If recovered, plug with cement and suspend.
5. If unable to recover 11-3/4" casing, hang wooden plug 15' below cellar floor. Fill to surface with cement. Weld steel plate over 28", 18" and 11-3/4", clear location and abandon well."

## DECISION

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

1. The location and hardness of the cement plug at 5050'.
2. The dumping of the 20' cement plug on the stub of 11-3/4" casing.

RC:OH

cc Messrs K B McNamara  
C W Gibbs  
Long Beach

E. H. MUSSER, State Oil and Gas Supervisor

By R. W. Walling Deputy

**DIVISION OF OIL AND GAS**

DIVISION OF OIL AND GAS

AUG 8 1956

LOS ANGELES, CALIFORNIA

**Notice of Intention to Abandon Well**

This notice must be given at least five days before work is to begin; one copy only

La Habra, Calif. August 7, 1956

DIVISION OF OIL AND GAS

In compliance with Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. San Gabriel #20, Sec. 11, T. 5 S., R. 12 W., S.B. B. & M., Seal Beach Field, Los Angeles County, commencing work on \_\_\_\_\_ 19\_\_\_\_.

THE PRESENT CONDITION OF THE WELL IS:

ADDITIONAL DATA FOR DRY HOLE

- Total Depth: 6375' Plug: 5650-5848'  
6065-6375' w/cmt.
- Complete casing record, including plugs:  
28" cemented at 60'  
18" " " 567'  
11-3/4" " " 4928' Deferred decision  
1293' 9" landed " 5520' Perfd 5139-5520'  
C.P. 5122-5139'. Gun perfd 5121-5160' & 5599-5609'.  
Splice at 4227'. Tested OK  
1701' 6-5/8" cemented at 6172' Gun perfd 5121-5160' & 5599-5609'  
Cut at 4680' & 5000'.  
198' 4-3/4" landed at 6330' Perfd 6162-6330'.  
Junk: 468' of 2" tubing cemented in place from 5850-6318'.
- Last Produced Nov. 1955 0 213  
(Date) (Oil, B/D) (Water, B/D)

4. Oil or Gas showings and results of tests:

5. Stratigraphic markers and depths:

6. Geologic age at bottom: \_\_\_\_\_

7. Base of fresh water sands: \_\_\_\_\_

THE PROPOSED WORK IS

- Bail hole clean to 5650' (top of plug).
- Plug 6-5/8" casing w/cement from 5650-5050'.
- Cap 6-5/8" and 9" stubs with 50+ lineal feet of cement.
- Fill hole with mud and attempt to cut and recover 11-3/4" from 620' or lower. If recovered, plug with cement and suspend.
- If unable to recover 11-3/4" casing, hang wooden plug 15' below cellar floor. Fill to surface with cement. Weld steel plate over 28", 18" and 11-3/4", clear location and abandon well.

*Abandon*

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

Box 397, La Habra, California  
(Address)  
OXford 7-1721  
(Telephone No.)

Standard Oil Company of California  
(Name of Operator)  
By W.C. Johnson  
W.C. Johnson, Mgr., Prod. Dept., So. Div.

DIVISION OF OIL AND GAS  
 RECEIVED  
 AUG 1 1929  
 WGB  
 SMB  
 GLA  
 WNT  
 COMPANY

COMPLETION REPORT—NEW WELL—PRO 18-1 1929

FIELD Seal Beach STANDARD OIL CO. OF CALIF. LOS ANGELES, CALIF.

PROPERTY San Gabriel WELL NO. 20 SEC. 11 T. 5-S. R. 12-W S B & M  
 938' south and 416.7' east from northwest corner  
 LOCATION Section 11-5-12. ELEV. 9.6 USGS

FOLLOWING IS COMPLETE AND CORRECT RECORD OF ALL WORK DONE ON THIS WELL.

COMMENCED: RIGGING UP Jan. 23, 1929 COMMENCED DRILLING Jan. 27, 1929  
 COMPLETED: RIGGING UP Jan. 26, 1929 COMPLETED DRILLING April 21, 1929  
 DEPTH 5576 PLUGGED TO 5500 DATE OF INITIAL PRODUCTION June 12, 1929  
 PRODUCTION (DAILY AVERAGE 1ST 30 DAYS) FLOWING Gas lift 1317 BBL. OIL: 109 BBL. WATER: 24.2 °A.P.I.  
 GAS PRODUCTION (DAILY AVERAGE 1ST 30 DAYS) 1130\* M. CU. FEET Reference to the California Gasoline PER M. CUBIC FEET  
 TUBING PRESS. 300 to 350 CASINGHEAD PRESS. 780 to 880 FLOW NIPPLE 26/32 to 28/32"

CASING RECORD

SIZE OF CASING	LENGTH OF CASING	DEPTH LANDED	CEMENTED (DEPTH IF THROUGH PERFORATION)	WEIGHT PER FOOT	THREADS PER INCH	MAKE OF CASING	SEAMLESS OR LAPWELDED	MAKE OF SHOE
28"	60	60				Stovepipe		Plain
18"	567	567				"		"
11 1/2"	4928	4928		60#	8	Youngstown	Hercules	"
9"	5520	5520	5122	45#	8	"	Seamless	"

CEMENTING OR OTHER SHUT OFF RECORD

SIZE OF CASING	DEPTH LANDED	DEPTH CEMENTED	NO. SACKS USED	NO. SACKS TREATED	KIND OF CEMENT	METHOD	TIME SET DAYS	RESULT OF TEST
18"	567	567	200	100	Gold Gate	Perkins	2	Not tested.
11 1/2"	4928	4928	500	-	Victor	"	7	Deferred decision
9"	5520	5122	45	-	"	"	8	Water not shut off
			65	-	"	"	6	

PERFORATION RECORD

SIZE OF CASING	FROM	TO	SIZE OF HOLES OR SLOTS	NUMBER OF ROWS	SPACING (INCHES)	HOW PERFORATED
9"	5122	5203		12		Kobe, 8 row, 130 M. 4 rows
9"	5203	5229		12		70 M. Kobe 6 rows, 100 mesh, 6 rows
9"	5229	5288	1 1/2", 130 M.	14	4" centers	Kobe
9"	5288	5490	100 M.	14	4" centers	McEvoy
9"	5490	5520	1 1/2", 130 M.	14	4" centers	Kobe

PLUG: Cmt. KIND BOTTOM 5576 TOP AT 5500  
 ADAPTER: KIND SIZE SET AT  
 ROTARY TOOLS: FROM 0 TO 5576 FEET CABLE TOOLS: FROM TO FEET

SIDETRACKED PIPE AND LOST TOOL RECORD

N O N E.

\*Formation gas--using about 600 Mcf. to DRILLERS NAMES ON LAST SHEET flow well

DATE JUL 18 1929

STANDARD OIL CO. OF CALIF.  
 BY *D. Andrews*

## WELL COMPLETION REPORT-LOG—PRO. 18-3

WELL NO. 20

PROPERTY San Gabriel Standard Oil Co. of COMPANY  
Calif.

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS.

FROM	TO	FEET	FORMATION DRILLED AND CORED
0	60	60	Surface sand
Jan. 27, 1929 cemented 60' 28" stovepipe with 125 sacks Golden Gate cement.			
60	200	140	Sand and gravel
200	416	216	Sticky shale streaks sand
416	511	95	Sand and gravel
511	567	56	Sandy shale streaks sand
Jan. 29, 1929 cemented 567' 18" stovepipe with 200 sacks Golden Gate cement, last 100 sacks treated with calcium chloride. 40 min. mixing and pumping cement to place under 360# pressure. Stood cemented 2 days.			
567	879	312	Sandy shale
879	1174	295	Sandy shale streaks sticky shale
1174	1575	401	Sandy shale streaks sand
1575	1700	125	Sandy shale streaks hard sandy shale
1700	1856	156	Sandy shale
1856	1900	44	Gray sand
1900	1998	98	Sandy shale
1998	2040	42	Gray sand
2040	2047	7	Hard sand
2047	2060	13	Gray sand
2060	2104	44	Sandy shale
2104	2310	206	Sticky shale streaks sandy shale
2310	2360	50	Gray sand
2360	2395	35	Sandy shale
2395	2443	48	Gray sand
2443	2486	43	Sticky shale streaks hard sand
2486	2504	18	Hard gray sand
2504	2580	76	Sticky shale
2580	2610	30	Sandy shale
2610	2620	10	Gray sand
2620	2659	39	Sandy shale
2659	2666	7	Hard sand
2666	2690	24	Tough sticky shale
2690	2735	45	Sandy shale
2735	2754	19	Hard gray sand
2754	2787	33	Sandy shale
2787	2792	5	Shell
2792	2840	48	Hard sand streaks gray sand
2840	2850	10	Sandy shale
2850	2870	20	Gray sand
2870	2900	30	Sandy shale
2900	2915	15	Tough shale
2915	3010	95	Gray sand streaks sandy shale
3010	3070	60	Sticky shale streaks sandy shale
3070	3078	8	Gray sand
3078	3164	86	Sandy shale streaks sticky shale
3164	3221	57	Sticky shale streaks sandy shale
3221	3224	3	Shell
3224	3260	36	Sandy shale

WELL COMPLETION REPORT-LOG—PRO. 18-3

WELL NO. 20 PROPERTY San Gabriel Standard Oil Co. of COMPANY  
 NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS. Calif.

FROM	TO	FEET	FORMATION DRILLED AND CORED
3224	3260	36	Sandy shale
3260	3290	30	Hard sand
3290	3345	55	Tough shale
3345	3384	39	Sandy shale
3384	3464	80	Sticky shale streaks sandy shale
3464	3475	11	Hard sand
3475	3490	15	Sandy shale
3490	3505	15	Hard sand
3505	3515	10	Sandy shale
3515	3521	6	Gray sand
3521	3600	79	Sandy shale streaks sticky shale
3600	3612	12	Hard sandy shale
3612	3620	8	Hard sand
3620	3630	10	Sandy shale
3630	3636	6	Hard sandy shale & shells
3636	3640	4	Shell
3640	3644	4	Gray sand
3644	3703	59	Hard sandy shale
3703	3706	3	Shell
3706	3745	39	Gray sand
3745	3785	40	Hard sandy shale & shells
3785	3812	27	Hard sand
3812	3862	50	Hard sandy shale
3862	3900	38	Sticky shale
3900	3920	20	Sandy shale
3920	3936	16	Hard sandy shale
3936	3956	20	Hard sandy shale streaks sticky shale
3956	4037	81	Hard sandy shale
4037	4041	4	Hard sand
4041	4056	15	Sandy shale
4056	4059	3	Hard sandy shale
4059	4062	3	Hard sand
4062	4090	28	Sandy shale streaks sticky shale
4090	4119	29	Hard sandy shale
4119	4123	4	Shell
4123	4148	25	Hard sandy shale
4148	4150	2	Sticky shale
4150	4152	2	Shell
4152	4185	33	Hard sandy shale
4185	4198	13	Hard sand
4198	4205	7	Sticky shale
4205	4230	25	Hard sand
4230	4234	4	Tough shale
4234	4257	23	Hard sandy shale
4257	4268	11	Sticky shale
4268	4310	42	Hard sand
4310	4322	12	Sticky shale
4322	4375	53	Hard sand
4375	4413	38	Tough sticky shale
4413	4426	13	Hard sandy shale
4426	4430	4	Hard sand
4430	4435	5	Sandy shale
4435	4553	118	Hard sand

WELL COMPLETION REPORT-LOG—PRO. 18-3

WELL NO. 20 PROPERTY San Gabriel Standard Oil Co. of COMPANY  
 NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS. Calif.

FROM	TO	FEET	FORMATION DRILLED AND CORED
4553	4565	12	Tough sticky shale
4565	4573	8	Tough shale
4573	4580	7	Hard sand
4580	4585	5	Sticky shale
4585	4597	12	Sticky shale & shells
4597	4607	10	Hard sand
4607	4611	4	Hard sandy shale
4611	4613	2	Hard sand
4613	4618	5	Sticky shale
4618	4628	10	Hard sand
4628	4642	14	Sticky shale
4642	4654	12	Hard sand
4654	4669	15	Sticky shale
4669	4687	18	Hard sand
4687	4698	11	Hard sandy shale
4698	4733	35	Hard sand
4733	4738	5	Hard sandy shale
4738	4742	4	Hard sand
4742	4750	8	Sticky shale
4750	4766	16	Hard sand
4766	4783	17	Hard sandy shale
4783	4798	15	Sandy shale
4798	4800	2	Shell
4800	4813	13	Tough shale
4813	4841	28	Hard sand
4841	4847	6	Hard sandy shale
4847	4874	27	Hard sand
4874	4890	16	Sticky shale
4890	4892	2	Hard shell
4892	4898	6	Sticky shale
4898	4903	5	Hard dark sandy shale thin streaks OIL SAND
4903	4928	25	Hard dark sandy shale
4928	4934	6	OIL SAND
4934	4944	10	Hard dark sandy shale thin streaks OIL SAND

Mudding test witnessed by State Mining Bureau. March 27, 1929 cemented 4928' 11 1/2" 60# 8 thd. Youngstown A.P.I. seamless casing with 500 sacks Victor cement. 1 hr. 53 min. mixing and pumping cement to place under 450# pressure.

Stood cemented 7 days. Drilled out cement and cleaned out 4865' to 4943'. Stood bailed to 1700' for 13 hours. Deferred decision on water shut-off by STATE MINING BUREAU.

4944	4949	5	Hard sandy shale
4949	4960	11	Hard sandy shale thin streaks hardsand
4960	4961	1	Shell
4961	4971	10	Sandy shale
4971	4975	4	Hard sand
4975	4983	8	Hard sandy shale
4983	4985	2	Shell
4985	5006	21	Hard sandy shale 7 shells

## WELL COMPLETION REPORT-LOG—PRO. 18-3

WELL NO. 20 PROPERTY San Gabriel Standard Oil Co. of COMPANY  
Calif.

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS.

FROM	TO	FEET	FORMATION DRILLED AND CORED
5006	5010	4	Hard shale
5010	5017	7	Hard sand
5017	5022	5	Sandy shale
5022	5024	2	Hard dark shale
5024	5034	10	Sandy shale
5034	5037	3	Shell
5037	5047	10	Hard sand
5047	5057	10	Sandy shale streaks sand
5057	5081	24	Sandy shale
5081	5085	4	Hard sand
5085	5089	4	Hard sandy shale
5089	5091	2	Sandy shale
5091	5106	15	Hard dark sandy shale (Core 5091-5108 rec. 14')
5106	5108	2	Hard dark sandy brown shale seams OIL SAND
5108	5121	13	Hard dark sandy shale (Core 5108-15 rec. 7')
5121	5133	12	OIL SAND few thin streaks sandy shale, 90 sand (Core 5115-33 rec. 18')
5133	5141	8	OIL SAND (Core 5133-51 rec. 19')
5141	5146	5	Hard dark sandy shale streaks OIL SAND
5146	5152	6	OIL SAND
5152	5153	1	Hard gray sandstone (Core 5151-69 rec. 12')
5153	5198	45	OIL SAND
5198	5200	2	Shell
5200	5213	13	OIL SAND
5213	5221	8	Sand
5221	5225	4	Tough sticky shale
5225	5238	13	Hard sand
5238	5244	6	Sand
5244	5247	3	Shell
5247	5248	1	Sand
5248	5262	14	Sand streaks hard sand
5262	5266	4	Hard sand
5266	5305	39	Sand streaks hard sand
5305	5309	4	Sand streaks hard sand showing OIL
5309	5313	4	Shell
5313	5344	31	OIL SAND (Core 5320-37 rec. 8')
5344	5384	40	OIL SAND streaks shale (Core 5337-44 rec. 5')
5384	5385	1	Shell
5385	5416	31	HARD OIL SAND (Core 5405-16 rec. 11')
5416	5431	15	OIL SAND (Core 5416-33 rec. 17')
5431	5433	2	Very sandy shale showing OIL (Core 5433-36 rec. 6")
5433	5436	3	Shale shell
5436	5449	13	OIL SAND
5449	5454	5	Dark sandy shale slight showing OIL (Core 5437 54 rec. 12')
5454	5460½	6	Dark sandy shale 4" OIL SAND at 5457' 11 deg. dip.
5460	5464	4	OIL SAND
5464	5470	6	Hard dark sandy shale
5470	5471	1	OIL SAND (Core 5454-71 rec. 17')
5471	5479	8	OIL SAND thin streakd dark sandy shale core 5471-88 rec. 17')

WELL COMPLETION REPORT-LOG—PRO. 18-3

#6

WELL NO. 20 PROPERTY San Gabriel Standard Oil Co. of COMPANY  
Calif.

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS.

FROM	TO	FEET	FORMATION DRILLED AND CORED
5479	5484	5	Hard dark sandy shale
5484	5485	1	OIL SAND
5485	5488	3	Hard dark sandy shale
5488	5489	1	Hard dark shale
5489	5494	5	OIL SAND (Core 5488-94 rec. 5')
5494	5495	1	Hard dark sandy shale
5495	5498	3	OIL SAND
5498	5500	2	Soft shale
5500	5511	11	OIL SAND thin streaks brown shale (Core 5494-5511 rec. 15')
5511	5519	8	OIL SAND
5519	5528	9	Dark brown laminated shale showing OIL (Core 5511-28 rec. 12')
5528	5537	9	Dark brown fractured shale thin streaks hard OIL SAND
5537	5539	2	OIL SAND streaks hard dark shale, 30% shale
5539	5542	3	Dark fractured shale (Core 5528-40 rec. 12')
5542	5553	11	OIL SAND few thin streaks dark shale (Core 5540-543 rec. 12')
5553	5574	21	OIL SAND (Core 5553-66 rec. 9', 5566-76 rec. 10')
5574	5575	1	Gray sand
5575	5576	1	Gray sandstone shell

April 23, 1929 pumped in through 5580' drill pipe hung at 5575', 60 sacks Victor cement. Equalized cement and pulled out drill pipe. Located top cement at 5420'. Drilled out cement 5420 to 5500'.  
April 24, 1929 mud test witnessed by State Mining Bureau Rep. Austin.

April 27, 1929 landed 5520' 9" 45# 8 thd. Seamless Youngstown casing consisting of 5119' blank, then 2'10" LeFlore cement collar and Baker Basket, then 398' perforated casing. Cemented through perforations at 5122'. Stood cemented 8 days.

Drilled out cement 5086 to 5122'. Cleaned out 5122 to 5520'. May 6, 1929 put in 5502' tubing, washed hole clean and injected gas into casing under 900# pressure. Swabbed well in 7:00 A.M. May 7, 1929.

Production for 24 hour periods:

Date	Bbls. Oil	Bbls. Water	Gray.	Cut	Nip.	T.P.	C.P.
May 8, 1929:	1963 net	461	23.3	21.9	28/32	400	1135
9,	1717	603	20.6	29.1	"	400	1140
10,	1784	532	20.6	26.0	"	420	1200
11,	1791	585	21.1	27.6	"	420	1170

Conditioned hole and ran water witch, located water below 5505'. (Note: Later developments lead us to doubt the accuracy of these results.)

May 16, 1929 pumped in through 5571' tubing hung at 5569, 40 sacks Victor cement, equalized cement, pulled tubing back to 5390' and

WELL COMPLETION REPORT—18-4  
LOG AND HISTORY

WELL NO. 20 PROPERTY San Gabriel Standard Oil Co. of Calif COMPANY

estimated 20 sacks forced into cement under 850# pressure. Located cement at 5406', bailed out cement to 5438'.

Washed perforations with McGregor and Strang perforation washer 5429 to 5122'. Stood cemented 7 days. May 23, 1929 injected gas into casinghead under 900# pressure. Swabbed well in at 2:30 A.M. May 24, 1929. Flowed 1½ hours and died. May 24, 1929 made 500 bbls. net oil, gravity 21.3, cut 30.0.

Well gave considerable/sand trouble and would not flow steadily. While swabbing May 28th, salt water rose to 1200'. Conditioned hole and ran water witch May 30th, 1929. Located water 5125 to 5130'. Filled hole with screened sand to 5139'. Hole took water freely under 550# pressure.

June 2, 1929 pumped in through 5137' tubing 65 sacks Victor cement. Forced 44 sacks into formation under 1200 bbls. pressure, Perkins pumps.

Stood recemented 6 days. Drilled out cement 5118-5139' and cleaned out 5139 to 5438'. Drilled out cement plug 5438' to 5480'. Washed perforations with McGregor Strang perforation washer 5454 to 5122'. Drilled out cement 5480 to 5000'.

June 11, 1929 Put in 5408' tubing. Swabbed well. Started flowing steadily 2 P.M. June 12, 1929.

Production for 24 hour periods:  
(net)

Date	Bbls. Oil	Bbls. Water	Grav.	Cut	Nip.	T.P.	C.P.
June 12, 1929:	1201	74	24.4	5.78	26/32	300	820
13,	1330	46	25.5	3.35	"	320	780
14,	1430	46	25.5	3.10	"	300	780
15,	1285	161	23.3	11.14	28/32	300	850
16,	1315	169	23.8	11.3	"	300	850
17,	1284	192	23.1	13.0	"	300	850
18,	1294	170	23.7	11.6	"	300	850

(Gas lift)

Drillers

J. Detemple, E.C. Pinard, A. Waidler

R.D.C. 7/18/29

WELL COMPLETION REPORT PRO. 18-2

WGB  
DOG(2)  
PCM  
CDB  
MAY 1 7 1933  
LOS ANGELES, CALIFORNIA

~~REDRILLING~~ DEEPENING ~~ABANDONING~~

FIELD SEAL BEACH

STANDARD OIL COMPANY OF CALIF.

COMPANY

PROPERTY San Gabriel

WELL NO. 20

SEC. 11

T5-S. R. 12-W. B & M

S.B.

FOLLOWING IS COMPLETE AND CORRECT RECORD OF ALL WORK

DONE ON THE WELL SINCE THE PREVIOUS RECORD DATED July 18, 1929

COMMENCED WORK Jan. 8, 1933  
COMPLETED WORK Feb. 20, 1933

TOTAL DEPTH 6375  
REDRILLED FROM - TO  
DEEPENED FROM 5576 TO 6375  
PLUGGED FROM 6375 TO 6330

ROTARY TOOLS: FROM 5576 TO 6375 FEET CABLE TOOLS: FROM TO FEET

PURPOSE OF WORK Deepen Lower Wasem to Upper McGrath Zone.

PRODUCTION

30 DAY AVERAGE PRIOR OR LAST AVAILABLE	36	BBL. OIL	477	BBL. WATER	GRAVITY 23.3 °A. P. I.
30 DAY AVERAGE AFTER	319	BBL. OIL	11	BBL. WATER	GRAVITY 27.0 °A. P. I.

CASING RECORD AFTER REDRILLING, DEEPENING OR ABANDONING

SIZE OF CASING	LENGTH OF CASING	DEPTH LANDED	CEMENTED (Depth if thru perf)	WEIGHT PER FOOT	THREADS PER INCH	MAKE OF CASING	SEAMLESS OR LAPWELDED	MAKE OF SHOE
28"		60	Yes	No rec.	-	Stovepipe	-	Plain
18"		567	"	" "	-	Hercules S.P.	-	"
11 3/4"		4928	"	60#	8	Youngstown	Seamless	"
9"		5520	5122-39	45#	8	"	"	"
6 5/8"		6172	Yes	28#	10	"	"	Baker
4 3/4"	198	6330	No	16#	10	"	"	Shop

CEMENTING OR OTHER SHUT OFF RECORD

SIZE OF CASING	DEPTH LANDED	DEPTH CEMENTED	NO. SACKS USED	NO. SACKS TREATED	KIND OF CEMENT	METHOD	TIME SET DAYS	RESULT OF TEST
28"		60	125	-	Gold Gate	Tubing	1	Not tested
18"		567	200	100	" "	Rotary	2	" "
11 3/4"		4928	500	None	Victor	Perkins	7	Def. decision
9"	5520	5122-39	110	"	"	"	8 & 6	2 jobs. Results ind.
6 5/8"		6172	160	100	Sta Cruz	"	6	Def. decision

PERFORATION RECORD

SIZE OF CASING	FROM	TO	SIZE OF HOLES OR SLOTS	NUMBER OF ROWS	SPACING (INCHES)	HOW PERFORATED
4 3/4"	6162	6330	1 1/2" x 120 mesh 6% undercut	8	6	Kobe

PLUG: Yes KIND Cement LENGTH 45' TOP AT 6330  
ADAPTER: Yes KIND Baash-Ross "Burney" SIZE 5-3/8" O.D. SET AT 6132

SIDETRACKED PIPE AND LOST TOOL RECORD

None.

DRILLERS NAMES ON LAST SHEET

DATE April 20, 1933.

STANDARD OIL CO. OF CALIF.,

BY *L.B. Little*  
L.B. Little - General Supt.

## WELL COMPLETION REPORT LOG—PRO. 18-3

WELL NO. 20

PROPERTY SAN GABRIEL STANDARD OIL CO. OF COMPANY

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

CALIF.

FROM	TO	FEET	FORMATION DRILLED AND CORED
<u>History</u>			
Well was recompleted in Lower Wasem Zone on June 12, 1929 with daily average production for first 30 days of 1317 bbls. oil and 109 bbls. water, 24.2° gravity. Production declined to an average of 36 bbls. oil and 477 bbls. water during a 28 day pumping test in September-October 1932. Well shut in on Oct. 8, 1932.			
<u>Proposed Work (Dated Dec. 10, 1932)</u>			
(1) Deepen through 9" casing, coring from about 6050'.			
(2) Cement 6 $\frac{5}{8}$ " casing at about 6090' over the Upper McGrath Zone, using sufficient cement to reach to 5000', due to questionable 9" combination shut-off. Division of Oil and Gas to witness mud test prior to running 6 $\frac{5}{8}$ " casing and shut-off test on same.			
(3) Complete at about 6400' (the exact depth to be determined by coring). Complete with 4 $\frac{3}{4}$ " liner.			
<u>Work Done</u>			
On Dec. 6, 1932, received authorization to deepen to Upper McGrath Zone. Job Order No. 2496.			
Dec. 7, 1932 to Jan. 7, 1933 hauling in rotary material and rigging up rotary.			
On Jan. 8, 1933, moved in rotary crew. Ran 7 $\frac{3}{4}$ " fishtail on 4 $\frac{1}{2}$ " drill pipe, circulated oil out of hole with water and cleaned out 5488 to 5501', then drilled out cement plug 5501 to 5576' (bottom). On Jan. 10th started deepening well with 7-7/8" Zublin bits.			
5576	5592	16	hard shale
5592	5605	13	hard shale, streaks of hard sand
5605	5608	3	hard shale
5608	5690	82	hard shale, streaks of sand
5690	5700	10	sandy shale, streaks of sand
5700	5705	5	sand
5705	5716	11	sandy shale, streaks of hard sand
5716	5756	40	sandy shale
5756	5780	24	sandy shale, thin streaks of hard sand
5780	5855	75	sandy shale, streaks of hard sand
5855	5858	3	hard sand
5858	5860	2	hard sandy shale
5860	5867	7	sandy shale, streaks of hard sand
5867	5868	1	hard sand

## WELL COMPLETION REPORT LOG—PRO. 18-3

#10

WELL NO. 20

PROPERTY SAN GABRIEL STANDARD OIL CO. OF COMPANY  
NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS CALIF.

FROM	TO	FEET	FORMATION DRILLED AND CORED
Underreamed hole 5547 to 5865' with 8-3/4" globe under-reamer.			
5868	5879	11	hard shale with streaks of sand
5879	5931	52	sandy shale
5931	5933	2	hard sand
5933	5952	19	hard sandy shale
5952	6050	98	sandy shale
Cored ahead with 7-7/8" globe core barrel.			
6050	6051	1	rec. 8".
6050	6051	1	8" soft, medium grained, gray sand with 1" compact, hard gray shale at base; sand looked wet.
Drilled ahead with 7-7/8" Varco bit:			
6051	6053	2	hard sand
6053	6054	1	sandy shale
Cored ahead with 7-7/8" Globe Core barrel.			
6054	6064	10	rec. 6'.
6054	6055	1	1/2' compact gray shale
6055	6064	9	5 1/2' soft, fine grained, gray sand, grading to medium-grained gray sand in bottom foot, sand looked wet
6064	6074	10	rec. 9'.
6064	6071	7	6' firm, medium grained, "poker chip" sand, showing curved fracture, throughout of 18 1/2"; sand looked wet.
6071	6074	3	3' compact, dark brown shale, grading in bottom foot to soft, medium grained gray sand that looked wet.
6074	6083	9	rec. 5'.
6074	6079	5	5' medium to fine-grained "poker chip" gray sand with 1" compact, hard brown shale at 6075' and several 1" streaks compact, hard brown shale 6078 to 6079'; sand looked wet.
6079	6083	4	4' no rec. (cored like sand)
6083	6093	10	rec. 10'.
6083	6085	2	2' firm, medium grained gray sand with 6" very hard gray sandstone shell at 6084'; sand looked wet
6085	6086	1	1/2' compact, dark brown shale at top, and 1/2' soft, medium grained gray sand that looked wet at base.

## WELL COMPLETION REPORT LOG—PRO. 18-3

#11

WELL NO. 20

PROPERTY SAN GABRIEL STANDARD OIL CO. OF COMPANY

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

CALIF.

FROM	TO	FEET	FORMATION DRILLED AND CORED
6086	6087	1	1' compact, hard dark brown shale, showing forams
6087	6088	1	1' medium grained, soft gray sand that looked wet, with 3" compact brown shale at top
6088	6089	1	1' compact, hard dark brown shale showing carbonaceous fragments
6089	6090	1	1' soft gray sand and brown sand, with several 2" streaks compact, dark brown shale
6090	6093	3	medium grained, soft gray sand that looked wet
6093	6103	10	rec. 6'.
6093	6099	6	6' medium grained, gray sand that looked wet; with 6" compact dark brown shale at 6095' and 2" compact dark brown shale at 6097', shale showed forams
6099	6103	4	no rec. (cored like sand with thin streaks of shale)
6103	6113	10	rec. 7'.
6103	6110	7	medium to coarse grained gray sand that looked wet, sand showed 29° fracture planes.
6110	6113	3	no rec. (cored like sand)
6113	6123	10	rec. 6'.
6113	6119	6	medium to fine grained, "poker chip" gray sand, that looked wet, sand showed 29° fracture planes; 6" compact dark brown shale at 6114' and 1" compact dark brown shale at 6117'.
6119	6123	4	4' no rec. (cored like sand)
6123	6133	10	rec. 9'.
6123	6124	1	medium grained, gray sand, that looked wet
6124	6125	1	compact, dark brown slightly sandy shale
6125	6128	3	medium grained, gray sand, that looked wet, and 3" streak of brown shale at 6126'
6128	6133	5	4' compact, chocolate brown shale with scattered forams and 6" streak of medium grained, very sandy brown shale at 6129'
6133	6143	10	rec. 8'.
6133	6137	4	compact, chocolate brown, somewhat platy shale, scattered forams
6137	6140	3	medium grained, gray sand, that looked wet
6140	6141	1	medium grained, very sandy brown shale
6141	6143	2	no rec. (cored like shale)
6143	6153	10	rec. 8'.

## WELL COMPLETION REPORT LOG—PRO. 18-3

#12

WELL NO. 20

PROPERTY SAN GABRIEL STANDARD OIL CO. OF COMPANY

NOTE: FORMATIONS SHOWING OIL OR GAS SHOULD BE NOTED IN CAPITALS

CALIF.

FROM	TO	FEET	FORMATION DRILLED AND CORED
6143	6151	8	firm, fine to medium grained gray sand that looked wet, 4" streaks compact hard brown shale at 6144' and at 6148' and a few spots and stains of OIL for 6" under shale streak at 6148
6151	6153	2	no recovery, cored like sand
6153	6163	10	rec. 10'.
6153	6163	10	medium to coarse grained, gray sand that looked unquestionably wet; a 6" hard sandstone shell at 6154' with 1" streak of OIL SAND below shell and a 1" streak of compact, brown shale at 6161' with stains of OIL for 6" below shale streak
6163	6173	10	rec. 6'.
6163	6165	2	compact, brownish gray shale, few thin laminations and inclusions of sandy shale, some of them stained with OIL
6165	6169	4	firm, medium grained, brown well saturated OIL SAND with a 2" streak of compact, brownish gray shale at 6166' and a 4" streak of shale at 6167' and another 4" shale at 6168'
6169	6173	4	no rec. cored like brown shale with streaks of OIL SAND
6173	6183	10	rec. 7'.
6173	6180	7	firm, medium grained, well saturated OIL SAND with 6" of hard sandstone shell at 6177'.
6180	6183	3	no rec. (cored like OIL SAND)

Underreamed hole 5543 to 6180' with 8 $\frac{3}{4}$ " Globe underreamer.

Circulated with drill pipe, rotating at 6180' for 4 hours, and during 1/2 hr. test at end of this period, mud loss out of pit at rate of 1 bbl. per hr. Test witnessed by Inspector F.C.Hodges of Division of Oil and Gas, and mudding of formations 5139-6183' approved.

Changed mud and re-underreamed hole 5520-6183' with 8 $\frac{3}{4}$ " Globe underreamer.

On Feb. 2, 1933, cemented 6 $\frac{5}{8}$ " water string at 6172' with 160 sacks Santa Cruz Special Oil Well cement, mixed 48% slurry and last 100 sacks treated with calcium chloride (1.010 Sp.Gr.). Plugs bumped under 500 lbs. working pressure and 1000 lbs. final pressure. 40 $\frac{1}{2}$  min. mixing and pumping cement to place. Casing free and cir-

OFFICE OF OIL AND GAS  
 STATE OF CALIFORNIA  
 DIVISION OF OIL AND GAS  
 MAY 17 1933  
 LOS ANGELES, CALIFORNIA

## WELL COMPLETION REPORT—18-4 LOG AND HISTORY

#13

WELL NO. 20      PROPERTY SAN GABRIEL STANDARD OIL CO. OF COMPANY  
 CALIF.

ulation good while cementing, Perkins process. One bottom and two top plugs.

Casing Detail: All 6 $\frac{5}{8}$ " 28 lb. Youngstown seamless Grade "C", Range 2, 10 thread, second-hand casing, fitted with regular collars. Baker steel shoe with cast cement guide and Baker float collar with cast iron float 33' above shoe. Stepp casing centralizers 4 $\frac{1}{2}$ " and 39' above shoe, shoe and casing centralizers, spot-welded on.

Circulated mud out of hole with water, bailed water to 3010', stood 3 hours, no rise, casing test O.K.

On Feb. 8th ran 5-5/8" fishtail on 3 $\frac{1}{2}$ " drill pipe, drilled out cement and plugs 6136 to 6172' where shoe was located (instead of 6171' as originally reported). Cleaned out to 6183', using water forcercirculation, then circulated 1 $\frac{1}{2}$  pits of mud to bottom and pulled drill pipe.

Bailed water to 3000', made several 2-hr. tests, fluid level fluctuating 50 to 100' due to action of gas, showing a little on top of water. Hole open to 6183'. Sample from bottom tested 68 grains salt per gallon.

Bailed water back to 3000', stood 17 hours. Oil and oily gas-cut mud rose 175' (equivalent to 9.2 bbls. per 24 hours). Sample of fluid from top was mostly oil and bailer picked up at 6183' and brought up sample of oily, muddy water and sand. Water tested 68 grains salt per gallon. Test witnessed by Inspector V. Auston of the Division of Oil and Gas. Deferred decision on account of high rise of fluid.

Company continued testing 6 $\frac{5}{8}$ " shut-off by bailing for 20 hrs., running to bottom about every hour. Top of oil at 2950', balance of fluid in hole mixed gas-cut, muddy water and oil. Sample from 6183' after 20 hours additional bailing still tested only 68 grains per gallon, indicating shut-off to be effective.

On Feb. 12th ran 5-5/8" Zublin bit on 3 $\frac{1}{2}$ " drill pipe. Mudded up hole and drilled ahead:

6183	6185	2	hard sand
6185	6210	25	brown shale
6210	6225	15	sand and thin streaks of shale

Cored ahead with 5-5/8" Globe and Crum core barrels:

6225	6235	10	rec. 6'.
6225	6229	4	firm, medium grained, slightly micaceous, well saturated OIL SAND, showing some "poker chip" fracturing
6229	6231	2	alternate 6" streaks of compact, brownish-gray shale and medium grained, well saturated OIL SAND

# WELL COMPLETION REPORT—18-4

## LOG AND HISTORY

#14

WELL NO. 20      PROPERTY SAN GABRIEL      STANDARD OIL CO. OF      COMPANY  
CALIF.

6231	6235	4	no rec. (cored like OIL SAND, streaks shale)
6235	6245	10	rec. 6'.
6235	6237	2	soft, fine grained, well saturated OIL SAND with 1" compact, gray shale at 6235'
6237	6238	1	compact, dark brown shale showing forams and few thin laminations fine sand, stained with OIL
6238	6241	3	alternative 4" streaks of compact, dark brown shale, showing forams and coarse grained, fairly well saturated OIL SAND, a 2" very hard sandstone shell at 6240'
6241	6245	4	no rec. (cored like OIL SAND, streaks of shale)
6245	6255	10	rec. 7'.
6245	6250	5	compact, dark brown shale, showing forams, 2" to 4" streaks, soft fine grained OIL SAND throughout
6250	6252	2	firm, medium grained, well saturated OIL SAND
6252	6255	3	no rec. (cored like OIL SAND, streaks shale)
6255	6265	10	rec. 9'.
6255	6262	7	6½' firm, medium to fine grained, well saturated OIL SAND showing "poker chip" fracturing and two 2" streaks shale 6260 to 6261'.
6262	6265	3	2½' compact, brownish gray shale, showing forams
6265	6275	10	rec. 9'.
6265	6267	2	firm, medium grained, well saturated OIL SAND, showing "poker chip" fracturing and several 1" streaks of shale at top, core showed good 10° dips.
6267	6271	4	compact, dark brown shale, grading to sandy shale 6270-6271 and showing good 13° dips
6271	6275	4	3' firm, medium grained, well saturated OIL SAND, showing "poker chip" fracturing, and 3" platy gray shale at 6271'
6275	6285	10	rec. 5'.
6275	6280	5	firm, medium grained, well saturated OIL SAND with 6" hard brown shale at 6280'
6280	6285	5	no rec. (cored like OIL SAND)
6285	6295	10	rec. 2'.
6285	6287	2	firm, medium grained, well saturated OIL SAND, several 1" streaks platy, fine grained, gray sandy shale and lignitic fragments
6287	6295	8	no rec. (cored like OIL SAND)
6295	6305	10	rec. 5'.
6295	6300	5	no rec. (cored like OIL SAND)
6300	6302	2	firm, coarse grained, rich OIL SAND, showing "poker chip" fracture
6302	6305	3	firm, medium to fine grained, well saturated OIL

## WELL COMPLETION REPORT—18-4 LOG AND HISTORY

WELL NO. 20

PROPERTY SAN GABRIEL STANDARD OIL CO. OF COMPANY  
CALIF.

			SAND with many thin streaks sand laminations of dark brown shale and carbonaceous fragments. Core showed 13° dips.
6305	6315	10	rec. 8'.
6305	6307	2	firm, medium grained, well saturated OIL SAND with 2" very hard, limy, gray sandstone shell at 6305'
6307	6308	1	compact, platy, hard brown shale showing forams
6308	6315	5	firm, medium grained, well saturated OIL SAND
6315	6325	10	rec. 9'.
6315	6318	3	firm, medium grained, well saturated OIL SAND
6318	6319	1	firm, medium grained, brownish-grey sandy shale
6319	6321	2	firm, medium grained, well saturated OIL SAND, showing carbonaceous fragments
6321	6325	4	3' firm, coarse to medium grained, well saturated OIL SAND
6325	6335	10	rec. 7'.
6325	6330	5	firm, medium grained, well saturated OIL SAND, 3" streak, medium grained, gray sandy shale at 6327'
6330	6332	2	compact, dark gray somewhat sandy shale, 1" OIL SAND at 6332'
6332	6335	3	no rec. (cored like shale)
6335	6345	10	rec. 2'.
6335	6336	1	compact, dark gray shale, showing carbonaceous fragments
6336	6337	1	firm, medium grained, well saturated OIL SAND
6337	6345	8	no rec. (cored like OIL SAND, streaks dark shale)
6345	6350	5	rec. 4"
6345	6346	1	4" firm, medium grained, well saturated OIL SAND, showing several 1/4" grayish spots
6346	6350	4	no rec. cored like OIL SAND
6350	6355	5	no rec.
6350	6355	5	no rec. (cored like soft sand)
6355	6360	5	rec. 1'.
6355	6356	1	soft, medium to coarse grained gray sand, looked unquestionably wet
6356	6360	4	no rec. (cored like sand)
6360	6365	5	rec. 5'.
6360	6365	5	soft, medium grained, gray sand, stained with OIL, 6362-6364'; looked unquestionably wet.
6365	6375	10	rec. 3'.
6365	6366	1	medium to coarse grained, gray sand, looked wet.
6366	6368	2	top 3" compact gray shale. Then soft fine grained OIL SAND grading to medium grained soft gray sand

WELL COMPLETION REPORT—18-4  
LOG AND HISTORY

WELL NO. 20

PROPERTY SAN GABRIEL STANDARD OIL CO. OF CALIF. COMPANY

6368 6375 7 at bottom. Looked unquestionably wet.  
no rec. (cored like sand)

On Feb. 18, 1933 ran 5-1/8" cement bit on 3 1/2" drill pipe. Thinned up mud with water, then pumped in 20 sacks of Santa Cruz cement with through 3 1/2" drill pipe, rotating at 6374', 22 minutes mixing and equalizing cement, Perkins pumps and mixer used.

On Feb. 19, 1933 ran 5-5/8" fishtail, cleaned out through cement bridges from 6193 to 6250' and drilled out cement plug 6250 to 6330'. Underreamed hole with 6 1/2" Globe underreamer 6172 to 6330'.

-----  
Feb. 21, 1933 landed 198' of 4 3/4" liner at 6330'.

Casing Detail: All 4 3/4" 16# Youngstown Seamless Grade C, Range 2, new casing, all fitted with 5-1/16" O.D. Baash-Ross 10 thread, inserted joints, except top end of top joint which is 10 thread standard. Liner fitted with a 5-3/32" O.D. shop made plain steel shoe, spotwelded on and with an open end cast iron guide. Also fitted with a 5-3/8" O.D. Baash-Ross "Burney" steel screw adapter (not welded on).

Perforation Detail: Bottom 168' perforated 8 rows, 1 1/2" x 120 mesh slots, 6" centers and 6% undercut. Balance 30' (top joint) is blank pipe.

-----  
Ran 3 3/4" Midway Perforation washer on 3 1/2" drill pipe, washed perforations with water from 6330 to 6162' and pulled washer.

Hung 3" U.E. tubing at 6280', including 182' of 2" U.E. tubing on bottom with special 2" to 3" left-hand adapter on top of 2" tubing, adapter fitted with a bevel seat to support a special 1 1/4" U.E. collar.

Swabbed water to 3700' through 3" tubing, hole showed some oil and gas, applied 900# gas pressure on casing head at 1:00 P.M. and well started flowing through 3" tubing at 3:00 P.M. Feb. 24, 1933.

Production Record for 24-hour periods ending at 7:00 A.M.

	Hrs.	Bbls. Oil	Bbls. Water	Grav. W	Cut	Bean	C.P.	T.P.	Gas
Feb. 24, 1933	16	139	43	-	24.0	1" & 23/64"	340	104	104
25,	24	227	31	27.0°	12.0	1" & 23/64"	350	115	
26,	24	275	24	27.3	8.2	1" & 23/64"	350	115	
27,	24	261	17	25.8	6.2	1" & 23/64"	325	50-60	
28,	16	180	5	26.8	2.7	32/64"	280-	40-	
							940	130	
Mar. 1,	24	263	18	26.5	6.4	32/64" to 46/64"	400-	80-	
2,	21	277	24	26.6	8.0	1" & 34/64"	425	245	
							450-	125-	450
							1075	130	

## WELL COMPLETION REPORT—18-4 LOG AND HISTORY

WELL NO. 20      PROPERTY SAN GABRIEL STANDARD OIL CO. OF CALIF COMPANY

	Hrs.	Bbls. Oil	Bbls. Water	Grav.	Cut	Bean	C.P.	T.P.	Gas
Mar. 3, 1933	24	265	11	26.1	4.0	34/64"	250-	75-	550
4,	24	278	5	26.1	1.8	48/64"	525	140	
5,	24	288	8	26.6	2.6	48/64"	150	525	222
6,	24	280	4	26.7	1.4	48/64"	140-	525-	270
							155	635	
Apr. 1, 1933	24	401	12	27.0	2.8	2-3/8" & 53/64"	320	60	
2,	24	408	12	27.0	2.8	2-3/8" & 53/64"	375	80	
3,	24	414	8	26.5	1.8	2-3/8" & 53/64"	370	80	
4,	24	413	12	27.2	2.8	2-3/8" & 53/64"	370	80	
5,	24	409	13	27.0	3.0	2-3/8" & 53/64"	300	50	
6,	24	401	16	27.3	3.8	2" bean	50	350	
7,	24	409	16	27.3	3.8	2"	80	350	
8,	24	395	15	27.2	3.8	2"	60	400	
<p>On April 12th ran in 6098' of 1 1/2" U.E. tubing and landed same in special adapter at bottom of 3" tubing.</p>									
Apr. 13,	24	248	19	26.7	7.2	1"	890	60	
14,	24	208	7	26.4	3.2	48/64" - 14/64"	950	210	
15,	24	215	8	25.8	3.4	22/64"	1000	115-	
								150	
16,	24	215	7	26.4	3.2	22/64"	840-	50-	
							980	250	
17,	24	203	7	26.6	3.2	22/64"	980-	60-	
							1100	450	
18,	24	196	6	27.0	3.0	22/64"	900-	50-	
							1100	475	
19,	24	189	8	27.1	4.0	22/64"	900-	50-	
							1100	475	

WELL COMPLETION REPORT—18-4  
LOG AND HISTORY

#18

WELL NO. 20 PROPERTY SAN GABRIEL STANDARD OIL CO. of COMPANY  
CALIF.

## - SUMMARY -

TOTAL DEPTH: 6375'. CEMENT PLUG: 6330 to 6375'.

CASING RECORD: 28" stovepipe cemented 60', not tested,  
18" cemented 567', not tested,  
11 $\frac{3}{4}$ " " 4928', deferred decision,  
9" landed 5520', bottom 398' perforated,  
cemented thru perfs. at 5122-5139',  
result of test indeterminate.  
6 $\frac{5}{8}$ " cemented 6172', deferred decision,  
198' - 4 $\frac{3}{4}$ " landed 6330', bottom 168' is 120 mesh  
Kobe perforated.

JUNK: None.

DRILLERS:

H. A. Wade,  
J. A. Porter,  
E. L. Bowen,  
Roy Callahan,  
T. J. Holt,  
R. E. Downs,  
R. M. Wilson,  
G. F. Stanford,  
R. L. Hilliard.

GAC:SR

G. A. COLLINS

April 20, 1933.

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 DIVISION OF OIL AND GAS  
**WELL COMPLETION REPORT PRO-18-2**

PLUG AND ALTER CASING  
**REDRILLING DEEPENING ABANDONING**

DOO-2  
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 LOS ANGELES, CALIFORNIA S.B.

FIELD **SRAL BEACH**

STANDARD OIL COMPANY OF CALIFORNIA COMPANY

PROPERTY **SAN GABRIEL**

WELL NO. **20** SEC. **11** T. **5-S** R. **12-W** B & M

FOLLOWING IS COMPLETE AND CORRECT RECORD OF ALL WORK  
 DONE ON THE WELL SINCE THE PREVIOUS RECORD DATED **APRIL 20, 1933**

COMMENCED WORK **August 2, 1945** TOTAL DEPTH **6375'**  
 COMPLETED WORK **April 30, 1946** REDRILLED FROM - TO -  
 DEEPENED FROM - TO -  
 PLUGGED FROM **5378'** TO **5848'**  
 CABLE TOOLS: FROM **6065'** TO **6375'** FEET  
 ROTARY TOOLS: FROM - TO - FEET  
 PURPOSE OF WORK

**Abandon Upper McGrath and perforate Lower Wascon.**

**PRODUCTION**

<b>31 (July 1945) Pro 20</b>	<b>3</b> BBL. OIL	<b>29</b> BBL. WATER	GRAVITY <b>25.0</b>	°A.P.I.
<b>30 DAY AVERAGE PRIOR OR LAST AVAILABLE</b>		<b>17</b>	GRAVITY <b>26.8</b>	°A.P.I.
<b>31 (May 1946) Pro 20</b>	BBL. OIL	BBL. WATER	GRAVITY	°A.P.I.
<b>30 DAY AVERAGE AFTER</b>				

**CASING RECORD AFTER REDRILLING, DEEPENING OR ABANDONING**

SIZE OF CASING	LENGTH OF CASING	DEPTH LANDED	CEMENTED (DEPTH IF THRU PERF.)	WEIGHT PER FOOT	THREADS PER INCH	MAKE OF CASING	SEAMLESS OR LAPWELDED	MAKE OF SHOE
20"		60	100	No Rec.		Stovepipe		Plain
18"		567	"	" "		Hercules S.P.		"
11 1/2"		4928	"	60#	8	Ygatin.	Seamless	"
9"	1293	5520	5122-5139'	45#	8	"	"	"
6-5/8"	1701	6172	Yes	28#	10	"	"	Maker Shop
4 1/2"	198	6330	No	16#	10	"	"	"

**CEMENTING OR OTHER SHUT OFF RECORD**

SIZE OF CASING	DEPTH LANDED	DEPTH CEMENTED	NO. SACKS USED	NO. SACKS TREATED	KIND OF CEMENT	METHOD	TIME SET DAYS	RESULT OF TEST
20"		60	125	-	Gold Gate	Tubing	1	Not tested
18"	567	567	200	100	" "	Rotary	2	" "
11 1/2"	4928	4928	500	-	Victor	Perkins	7	Def. dec. terminate
9"	5520	5122-5139	110	-	"	"	8&6	2 jobs. Results inde-
9"x11 1/2"	Splice	4227'	30	-	Colt.cons.	Squeeze	2	Pressure tested 0.1.
6-5/8"	6172	6172	100	100	Sta. Cr. Perkins	Perkins	6	Def. decision

**PERFORATION RECORD**

SIZE OF CASING	FROM	TO	SIZE OF HOLES OR SLOTS	NUMBER OF ROWS	SPACING (INCHES)	HOW PERFORATED
9"	5121	5160	See summary page #28 for details.			
6-5/8"	5121	5160	" " " " " "			
See completion reports dated 7-18-29 & 4-20-33 for further perforation detail.						

PLUG: **Yes** KIND **Cement** LENGTH **See sum.** TOP AT **5378'**  
 ADAPTER: **Yes** KIND **Baash-Ross "Burney"** SIZE **5-3/8" O.D.** SET AT **6132'**

**SIDETRACKED PIPE AND LOST TOOL RECORD**

**403' of 2" tubing cemented in place from 5850-6318'.**

DRILLERS NAMES ON LAST SHEET

DATE **November 5, 1946**

STANDARD OIL COMPANY OF CALIFORNIA

BY *J. E. Gogline*  
 J. E. Gogline, Mgr., Prod. Dept. Dist. 4  
 PRO-18-2 (4,500 11-45)

San Gabriel #20  
Seal Beach

Standard Oil Company of California

DIVISION OF OIL AND GAS

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LOS ANGELES, CALIFORNIA

### History

On May 7, 1929 this well was completed in the Lower Wasam Zone from the interval 5122-5520', flowing 1900 B/D oil and 600 B/D water. On May 30, 1929, ran water witch and located water entry from 5125-5130'. Re-cemented through perforations 5122-5130' and recompleted well for 1,317 B/D oil and 109 B/D water. Production remained steady for 6 months, when the oil rapidly declined and water increased to 400 B/D. Prior to deepening, this well averaged 36 B/D oil and 477 B/D water during a 20-day pumping test in September-October 1932. Consideration at that time was given to plugging back to 5530', but due to effect requirements, it was decided to deepen to the Upper McGrath Zone.

On February 24, 1933, well was deepened and completed in the Upper McGrath for 319 B/D oil and 11 B/D water. The production declined to approximately 45 B/D oil and 25 B/D water in January, 1936, when it was shut in for curtailment. Well stood shut in until January 1944, except for a 5-month pumping test made in 1937. From January 1944 to March, 1945 well averaged 2 B/D oil and 29 B/D water. On May 1, 1945, tubing was lowered to 6277', or 55' off bottom, and for 29 days during May, 1945, averaged 4 B/D oil and 30 B/D water. During June, 1945, well averaged 5 B/D oil and 27 B/D water for 30 days, and during July averaged 3 B/D oil and 29 B/D water for 31 days.

San Gabriel #20  
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Standard Oil Company of California

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Condition of Casing

There is no record of bad pipe. A 2-5/8" bailer went to 6330' when last bailed on December 27, 1943.

Discussion

As this well is not an economic producer in the Upper McGrath Zone, it is proposed to plug and abandon this zone and gun perforate the top 20' of the Lower Wasen Zone.

Proposal (dated 7-3-45)

1. Plug with cement 6330-6100'.
2. Set bridge plug at 5400' and cap with 20' of cement.
3. Cut and recover 6-5/8" casing from 5000', or above, if necessary.
4. Pressure test 6-5/8" x 9" splice. If splice takes fluid, squeeze with cement.
5. Cut and recover 9" casing from 4700', or above, if necessary.
6. Pressure test 9" x 11 1/2" splice. If splice takes fluid, squeeze with cement.
7. Gun perforate 6-5/8" casing 6130-6150'.
8. Return well to pump.

Work Done

August 2, 1945, Harbor Production Service, contractor, moved in equipment and rigged up.

August 3-6, 1945, pulled sucker rods and 2 1/2" tubing. Ran 2-5/8" bailer and cleaned out to bottom at 6330'.

August 7, 1945, pumped in 40 sacks of high temperature cement through 2" and 2 1/2" tubing hanging at 6325'. Displaced cement with 120 cu. ft. of water. Fifteen minutes mixing and displacing under 450# working and 600# final pressure. Pulled tubing to 6318' where same stuck. Unable to pull loose.

Located top of cement in tubing at 6065'.

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August 8-9, 1945, ran McCullough inside cutter on sucker rods and cut 2" tubing at 5850'. Pulled and recovered 2" and 2½" tubing from where cut at 5850', thus leaving in hole 498' of 2" tubing cemented in place from 5850-6318'.

August 9, 1945, pumped in 40 sacks of high temperature Victor cement through 2" and 2½" tubing hanging at 5848'. Cemented mixed to an average slurry of 118%. Equalized cement with 168 cu. ft. of water. Circulation good throughout job. Ten minutes mixing and pumping cement to place. Pulled up to 5850' and established circulation to remove any excess cement. Used Oil Well Cementing Company power equipment and bulk cement. Located top of cement at 5869'.

Location and hardness of plug at 5860' witnessed and approved by Inspector Chas. Corwin of the Division of Oil and Gas.

Applied 1000# pressure between 9" and 6-5/8" casings - held O.K. for three minutes.

August 11, 1945, pumped in 25 sacks of slow Colton construction cement through 2½" and 2" tubing hanging at 5855', mixed to an average slurry of 116%. Displaced with 160 cu. ft. of water. Ten minutes mixing and displacing cement. Used Oil Well Cementing equipment.

Located top of cement at 5878'.

August 16-27, 1945, ran McCullough inside cutter and cut 6-5/8" casing at 5000'. Could not work pipe loose. Applied 2500# pressure inside 6-5/8" casing but could not break circulation. Cut 6-5/8" casing with McCullough cutter at 4690' but casing would not pull out. Applied 2000# pressure - no circulation. Ran spear and jars and obtained vibration at 4500'. Cut 6-5/8" casing at 4471' with McCullough cutter. Pulled and recovered 6-5/8" casing from where cut at 4471', thus leaving 1701' of 6-5/8" casing in hole from 4471-6172'.

Set a 5-7/8" I.D. x 7-5/8" O.D. x 1' long shop made adaptor on top of 6-5/8" casing stub from 4470-4471'. Applied 1200# pressure in 9" casing.

August 23, 1945, ran spear and jars and tried to get vibration on 9" casing at 4375'. Tried every 25' and obtained vibration at 4250'.

August 29-30, 1945, ran McCullough cutter and cut 9" casing at 4227' but casing would not come loose. Ran spear and jars and tried to get vibration from 4200'. Tried every 25' and obtained fair vibration at 3970', and good at 3940'.

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San Gabriel #20  
Seal BeachStandard Oil Company of California  
LOS ANGELES, CALIFORNIA

To squeeze gun perforations in 6-5/8" casing 5130-5150': January 14, 1946, set Ramer Model "K" magnesium retainer in 6-5/8" casing at 5100'.

Closed circulating ports and pooled off at surface to pressure test 11 1/2" casing. Pumped water into annulus of 2 1/2" tubing and 11 1/2" casing at 5 cu. ft. per minute rate under 1000#. Closed circulating ports and broke formation down with water under 600#. Formation took 50 cu. ft. of water with pressure increasing from 600 to 1150#. Opened ports and pumped in 25 sacks of slow Colton cement, mixed to an average 114-116#/ cu. ft. Displaced cement with 100 cu. ft. of water and closed ports. Squeezed gun holes 5130-5150' with an additional 60 cu. ft. of water. Estimate 20 sacks cement away under 2150# final pressure. Eighteen minutes mixing and pumping cement to place. Used International Cementers power equipment and bulk cement.

Located top of cement at 5095'.

Closed well in at surface and applied 1200# pressure to 11 1/2" casing. Pressure dropped to 600# in four minutes, indicating leak in casing.

January 16, 1946, set Halliburton squeeze tool in 6-5/8" casing at 4500'. Applied 1500# for ten minutes without loss.

January 17, 1946, set Halliburton squeeze tool in 9" casing at 3940' and pumped fluid away under 1000#, indicating a hole in 9" casing below that depth.

Ran in to 4227' with squeeze tool but unable to get below that depth.

Set squeeze tool in 9" casing at 4200' and broke circulation around 9" under 1000#.

January 19, 1946, ran Beach-Ross casing spear and recovered 305' of 9" casing from 4227', thus leaving in hole 1293' of 9" casing landed at 5520'.

January 21, 1946, set adapter over stub of 9" casing at 4227', had to drive adapter through bad place in 11 1/2" casing at 4165'.

Set squeeze tool in 9" casing at 4265'. Applied 1700# pressure and dropped to 350# in 20 minutes.

Tested 9" casing with Halliburton squeeze tool at 4455', 4265' and 4239'. Held 1700# O. K.

Tested 11 1/2" casing and 11 1/2" x 9" splice as follows:

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Standard Oil Company of CALIFORNIA

<u>Tool set at</u>	<u>Pressure Applied</u>	<u>Took water at following rate - cu. ft./min.</u>
4150'	1500 $\frac{1}{2}$	10 cu. ft./min.
4159'	1500 $\frac{1}{2}$	5 cu. ft./min.
4180'	1400 $\frac{1}{2}$	5 cu. ft./min.
4200'	1400 $\frac{1}{2}$	5 cu. ft./min.

thus indicating 9" x 11 $\frac{1}{2}$ " splice at 4227' leaking.

January 23, 1946, cemented 9" x 11 $\frac{1}{2}$ " splice at 4227'. Set Halliburton squeeze tool in 11 $\frac{1}{2}$ " casing at 4140'. Formation broke down and took fluid at an 8 cu. ft./min. rate under 1400 $\frac{1}{2}$  pressure. Pumped in 60 sacks of Colton construction cement, mixed to a 11 $\frac{1}{2}$ " slurry. Displaced cement with 75 cu. ft. of water and closed tool. Displaced cement with an additional 105 cu. ft. of water under 1350 $\frac{1}{2}$  final pressure. Estimate 30 sacks squeezed around splice. Thirty minutes mixing and pumping to place. Used Halliburton Cementers power equipment and bulk cement.

Located top of cement at 4251'.

Pressure tested 11 $\frac{1}{2}$ " casing with 1100 $\frac{1}{2}$ . Held O.K. for five minutes.

January 24, 1946, drilled out cement 4221-4227' with an 10-5/8" bit.

Pressure tested 11 $\frac{1}{2}$ " casing. Held 1050 $\frac{1}{2}$  for twenty minutes.

January 25, 1946, drilled out cement in 11 $\frac{1}{2}$ " casing from 4217-4227' with a 10-5/8" bit.

Pressure tested 9" x 11 $\frac{1}{2}$ " splice at 4227' with 1150 $\frac{1}{2}$ . Held O. K. for twenty minutes.

January 25, 1946, drilled out cement in 9" casing 4227-4471' with a 7-7/8" bit.

Pressure tested 11 $\frac{1}{2}$ " casing, 9" x 11 $\frac{1}{2}$ " splice, and 9" and 8-6/8" casings to 5079'. Held 1250 $\frac{1}{2}$  O.K. for twenty minutes.

January 26 and 28, 1946, drilled out retainer and cement 5079-5160' and cleaned out to 5378' with a 6-5/8" bit.

Circulated hole clean to 5378', using water.

Bailed hole clean to 5378' with a 3 $\frac{1}{2}$ " x 60' baller.

January 30, 1946, regun perforated 6-5/8" and 9" casings with four 1/2" holes per foot 5130-5150' using a Lane-Wells gun.

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San Gabriel #20  
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Standard Oil Company of California

January 31, 1946, hung 2 $\frac{1}{2}$ " tubing at 4153' with a 2 $\frac{1}{2}$ " pump shoe at 4151'.

February 1, 1946, ran 2 $\frac{1}{2}$ " pump on all 3/4" rods to 4151'.

Returned well to production on February 2, 1946, and produced 133 barrels all water.

February 4, 1946, pulled plunger loose and washed well back. Well would not produce.

February 5-6, 1946, pulled rods and tubing.

February 7, 1946, hung 2 $\frac{1}{2}$ " and 2" tubing at 4044'. Ran 2" x 10' invert type pump on 4044' of 3/4" rods, including 1990' of 7/8" rods. Pump at 4044'.

Well stood idle for three days.

February 11, 1946, lowered pump to 5076'. Well pumped 14 hours but did not produce.

February 12, 1946, well pumped five minutes and pumped off. Ran water in casing for twenty minutes and well started pumping all water.

February 13, 1946, well pumped six hours but did not produce.

February 14-18, 1946, well produced a small amount of water.

#### Proposal

1. Pull rods and tubing
2. Bail and locate fluid level. Bail fluid to 4500'.
3. Regun perforate with six 1/2" holes per foot 5130-5150'.
4. Check fluid rise with bailer; if necessary, run Yowell push-out type washer and check perforations.
5. If necessary, re-perforate 5130-5150' and recheck perforations with washer.
6. Return well to pump.

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San Gabriel #20  
Seal BeachStandard Oil Company of California  
LOS ANGELES, CALIFORNIA

August 31-September 5, 1945, ran 9" McDullough cutter and cut 9" casing at 3921'. Pulled and recovered 9" casing from where cut at 3921', thus leaving in hole 1599' of 9" from 3921-5520', perforated 5139-5520', and cemented through perforations 5122-5150'.

Bailed hole clean to 5378'. Applied 1100<sup>lb</sup> pressure in 11<sup>1/2</sup>" casing, held O.K.

Set an 8-1/16" I.D. x 10<sup>1/2</sup>" O.D. x 16" long chop side adapter on stub of 9" casing from 3920-3921'.

Washed out mud with water to 5378'.

September 11, 1945, ran Lane-Wells gun perforator and shot six 1/2" holes per foot in 6-5/8" casing and 9" from 5130-5150' (120 holes).

Bailed hole clean to 5378' with a 3<sup>1/2</sup>"x 45' bailer.

September 15, 1945, hung 2<sup>1/2</sup>" tubing (including 890' of 2" on bottom) at 5000', including 2" pump shoe at 4993'.

September 15, 1945, ran and landed 2" x 10' invert type pump at 4993' on a combination string of 100 - 3/4" rods and 62 - 7/8" rods.

Returned well to production on September 15, 1945, and for 17 days averaged 0 oil and 246 water. During October, well averaged 326 water for 24 days. Water tested 1720 G/O. Well has been standing idle since October 25, 1945.

Proposal (dated 11-19-45)

1. Clean out to 5378' (top of plug).
2. Set cement retainer at 5100' and squeeze perforations 5130-5150' with cement.
3. Clean out to 5378'.
4. Regun perforate 6-5/8" casing 5130-5150' with four 1/2" holes per foot.
5. Return to production.

Work Done

January 10-12, 1946, Harbor Production Service, contractor, moved in equipment and rigged up. Pulled rods and tubing. Cleaned out to 5150' with a 3<sup>1/2</sup>" bailer.

San Gabriel #20  
Seal Beach

Standard Oil Company of California

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LOS ANGELES, CALIFORNIA

Program

1. Check bottom with bailer; hole must be clean to 5160'.
2. Gun perforate with six 9/16" holes per foot 5121-5130' and 5150-5160'.
3. Check holes with perforation washer. If new holes are not open, re-perforate.
4. Return to production.

Work Done

April 24, 1946, Harbor Production Service, contractor, moved in equipment and rigged up. Pulled rods and tubing.

April 25, 1946, bailed hole clean to 5368' with a 3 1/2" x 46' bailer.

April 25, 1946, ran Lane-Wells gun perforator and shot six 9/16" holes per foot in 6-5/8" and 9" casings from 5121-5130' and 5150-5160'. Fluid level rose from 4240-4280'.

Bailed hole clean to 5368' with a 3 1/2" x 46' bailer.

Washed perforations in 6-5/8" and 9" casings with a Yowell push-cut type washer from 5121-5160'. Perforations not open from 5144-5148' and 5158-5160'.

Ran bailer and found hole clean to 5348'.

April 27, 1946, ran Lane-Wells gun perforator and reshot six 9/16" holes per foot in 6-5/8" and 9" casings from 5144-5148' and 5158-5160'.

Washed perforations with Yowell washer from 5121-5160'. Holes not open from 5144-5148' and 5158-5160'.

Ran 3 1/2" bailer and cleaned out sand 5330-5370'. Fluid level 4000'.

April 29, 1946, ran Lane-Wells gun perforator and reshot six 9/16" holes per foot in 6-5/8" and 9" casings from 5144-5148' and 5158-5160'.

Ran Yowell washer and found all perforations open. Bailed hole clean to 5378'.

April 30, 1946, hung 2 3/4" U.S. tubing at 5051' with pump shoe at 5048'.

April 30, 1946, reran same rods and plunger as was previously in hole.

Returned well to production on May 1, 1946.

During May, 1946, well averaged 9 B/D oil, 17 B/D water, gravity 26.8°, for 31 days. (Pre 20 figures).

San Gabriel #20  
Seal Beach

Standard Oil Company of California  
LOS ANGELES, CALIFORNIA

Work Done

February 20-21, 1946, Harbor Production Service, contractor, moved in equipment and rigged up. Pulled rods and tubing. Located top of fluid at 4360'. Bailed heavy cement-cut mud from 5270'. Lowered fluid level to 4500'.

February 22, 1946, located top of fluid at 4400' with a bailer. Run shot six 9/16" holes per foot 5130-5150' in 6-5/8" and 9" casings with Lane-Wells gun perforator. Bailed cement-cut mud from 5210-5378'. Fluid level 4400'.

February 23, 1946, ran bailer and located top of fluid at 4360'. Washed perforations with a Yowell push-out type washer from 5130-5150'. Perforations open from 5130-5144', not open from 5144-5150'.

Well stood idle forty hours.

February 25, 1946, ran 3 1/2" x 65' bailer and located top of oil at 4235'. Bailed cement-cut mud from 5378' for four hours without lowering fluid level. Hole showing more oil and gas.

February 26, 1946, ran bailer and located top of fluid at 4235'.

February 26, 1946, hung 2 1/2" U.S. tubing at 5061', with a 2 1/2" pump shoe at 5048'.

Tubing Detail:

All 156 joints, or 5061', are 2 1/2" U.S., 6.5# 6-round thread, range 3, unknown make and grade of tubing, fitted on bottom, or at 5061', with a 2 1/2" x 3" perforated nipple, and fitted at 5048' with a 2 1/2" pump shoe.

Total 156 joints, or 5061'.

February 26, 1946, ran a 2 1/2" pump on all 3/4" rods to 5076'.

Returned well to production on February 26, 1946, and produced 30 barrels all water in sixteen hours.

February 27, 1946, well produced 4 oil and 36 water, and for the 28th produced 10 oil and 6 water.

During March, 1946, well averaged 8 B/D oil and 10 B/D water for 31 days. (Pre 20 figures).

San Gabriel #20  
Seal Beach

Standard Oil Company of California

DIVISION OF OIL AND GAS  
**RECEIVED**  
NOV - 8 1948

S U M M A R Y

Total Depth: 6375'.

Plugs: 5375-5843', 6005-6375', cement. LOS ANGELES, CALIFORNIA

Casing: 23" cemented 60'. Not tested.  
 18" " 567' " "  
 11 1/2" " 4923' Deferred decision  
 1203' - 9" landed 5520'. Perforated 5139-5520'. C.P. 5122-5139' results indeterminate. Gun perforated 5121-5160'.  
 1701' - 6-5/8" cemented 6172'. Splice at 4227' pressure tested O.K. Deferred decision. Gun perforated 5121-5160'.  
 193' - 4 1/2" landed 6330'. Plugged with cement to 5375'. Perforated 6162-6330'.

Junks 408' of 2" tubing cemented in place from 6350-6313'.

Perforation Detail:

9" and 6-5/8" -

5121-5130'	- six 9/16" holes/foot	(Lance-Holle Gun)
5130-5150'	- ten 1/2" holes/foot	( " " " )
5130-5144'	- six 9/16" holes/foot	( " " " )
5144-5148'	- eighteen 9/16" holes/foot	( " " " )
5148-5158'	- six 9/16" holes/foot	( " " " )
5158-5160'	- eighteen 9/16" holes/foot	( " " " )

See completion reports dated July 18, 1929 and April 20, 1933, for other perforation detail.

Contractor's Drillers:

J. M. Newby  
C. Case  
T. F. Jones

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

H. BAPP

BR:PS  
November 5, 1948

WELL COMPLETION REPORT LOS ANGELES, CALIFORNIA  
 PERFORATING  
 REDRILLING DEEPENING ABANDONING

M.C. File

FIELD SEAL BEACH STANDARD OIL COMPANY OF CALIFORNIA COMPANY

PROPERTY SAN GABRIEL WELL NO. 20 SEC. 11 T. 5-S. R. 12-W. B & M S.B.

FOLLOWING IS COMPLETE AND CORRECT RECORD OF ALL WORK  
 DONE ON THE WELL SINCE THE PREVIOUS RECORD DATED November 5, 1946

COMMENCED WORK February 4, 1947  
 COMPLETED WORK February 24, 1947

TOTAL DEPTH 6375'  
 REDRILLED FROM - TO -  
 DEEPENED FROM - TO -  
 PLUGGED FROM See summ. TO See summ.  
 CABLE TOOLS: FROM - TO - FEET

ROTARY TOOLS: FROM - TO - FEET  
 PURPOSE OF WORK

Gun perforate a portion of the Lower Wasem Zone.

PRODUCTION

31 (Pro 20) Jan. '47	9 BBL. OIL	9 BBL. WATER	GRAVITY 26.8 °A.P.I.
30 DAY AVERAGE PRIOR OR LAST AVAILABLE	17 BBL. OIL	145 BBL. WATER	GRAVITY 26.8 °A.P.I.
17 (Pro 20) Apr. '47			
30 DAY AVERAGE AFTER			

CASING RECORD AFTER REDRILLING, DEEPENING OR ABANDONING

SIZE OF CASING	LENGTH OF CASING	DEPTH LANDED	CEMENTED (Depth if thru perf)	WEIGHT PER FOOT	THREADS PER INCH	MAKE OF CASING	SEAMLESS OR LAPWELDED	MAKE OF SHOE
28"		60	Yes	no record	-	Stovepipe	-	Plain
18"		567	"	" "	-	Hercules S.P.	-	"
11 3/4"		4928	"	60#	8	Ygstn.	Seamless	"
9"	1293	5520	5122-5139'	45#	8	"	"	"
6 5/8"	1701	6172	Yes	28#	10	"	"	Baker
4 3/4"	198	6330	No	16#	10	"	"	Shop

CEMENTING OR OTHER SHUT OFF RECORD

SIZE OF CASING	DEPTH LANDED	DEPTH CEMENTED	No. SACKS USED	No. SACKS TREATED	KIND OF CEMENT	METHOD	TIME SET DAYS	RESULT OF TEST
28"	60	60	125	-	Gold. Gate	Tubing	1	Not tested.
18"	567	567	200	100	" "	Rotary	2	" "
11 3/4"	4928	4928	500	-	Vic.	Perkins	7	Def. dec.
9"	5520	5122-5139'	110	-	"	"	8&6	2 jobs. Results inde-
9x11 3/4"	Splice	4227	30	-	Colt. cons.	Squeeze	2	terminate. (see summ.)
6 5/8"	6172	6172	160	100	Sta. Cruz	Perkins	6	Press tested OK. Def. dec.

PERFORATION RECORD

SIZE OF CASING	FROM	TO	SIZE OF HOLES OR SLOTS	NUMBER OF ROWS	SPACING (INCHES)	HOW PERFORATED
9"	5121	5160	See summary	page 28	for details	
6 5/8"	5121	5160	" "	" "	" "	
6 5/8"	5599	5609	six 1/2" holes/foot			McCullough gun)
4 3/4"	6162	6330	1 1/2" x 120 mesh 6% undercut	8	6	Kobe
See completion reports dated 7-18-29 & 4-20-33 for further perforations.						

PLUG: Yes KIND Cement LENGTH See summ. TOP AT 5650'  
 ADAPTER: Yes KIND Baash-Ross "Burney" SIZE 5 3/8" O.C. SET AT 6132'

SIDETRACKED PIPE AND LOST TOOL RECORD

468' of 2" tubing cemented in place from 5850-6318'

DRILLERS NAMES ON LAST SHEET

DATE October 1, 1947

STANDARD OIL COMPANY OF CALIFORNIA

BY *J.H. Thatcher*  
 J.H. Thatcher, Mgr., Prod. Facilities Dist.

OCT 9 - 1947

Recent History

LOS ANGELES, CALIFORNIA

In the latter part of 1945, this well was plugged with cement from 6328-6065' and bridged 5848-5378', thus abandoning the McGrath Zone. Subsequently the well was gun perforated through the 6 5/8" and 9" casings to expose the top 39' of the Lower Wasen Zone. Although the interval was perforated six separate times and the perforations were washed repeatedly, the well has averaged only about 9 B/D oil and 17 B/D water since it was returned to production in May, 1946. It is believed that very few of the bullets completely penetrated the two casing strings and the cement sheath, thus explaining the low production.

Trend of Production

	<u>B/D</u> <u>Oil</u>	<u>B/D</u> <u>Wtr</u>	<u>°API</u> <u>Crav.</u>	<u>Days</u>
Oct. '46	7	10	26.8	31
Nov.	8	9	26.8	30
Dec.	9	9	26.8	31
Jan. '47	9	9	26.8	31

Proposal (dated 1-31-47)

1. Pull rods and tubing and drill out cement plug 5378-5650', using oil for circulation.
2. Shoot six 1/2" holes per foot from 5599-5609'. Wash perforations to determine if perforations are open, if not regun perforate and recheck.
3. Return well to production.

Work Done

February 4-10, 1947, Harbor Production Service, contractor, moved in equipment and rigged up. Pulled rods and tubing. Cleaned out hole to 5323'. Pumped in 100 barrels of oil.

February 12, cleaned out hole from 5323-5356', using oil, no circulation.

February 13-14, displaced oil in hole with water. Cleaned out 5356-5378'; drilled out cement plug 5378-5395' and cleaned out to 5440'. Displaced water in hole with aquagel mud.

February 15, 17 & 18, drilled out cement 5440-5650' using a 5 5/8" bit. Displaced mud in hole with water and displaced water with oil.

February 19, ran McCullough gun perforator and shot six 1/2" holes per foot in 6 5/8" casing from 5599-5609'.

February 20, washed perforations from 5599-5609' with a Yewell pushout type washer; holes all open.

-----

San Gabriel #20  
Seal Beach

Standard Oil Company of California

DIVISION OF OIL AND GAS  
RECEIVED  
31. OCT 9 - 1947  
LOS ANGELES, CALIFORNIA

February 24, hung 2 $\frac{1}{2}$ " tubing at 5187' with pump shoe at 5185'. Ran combination string of 3/4" and 7/8" rods and pump.

-----

Returned well to production on February 24, 1947.

\*During February, well averaged 0 B/D oil, 111 B/D water, gravity 26.0° for 4 days. (Pro 20 figures)

\*Recov. 354 bbls. circulating oil in 4 days, gravity 27.0°.

\*During March, averaged 0 B/D oil, 111 B/D water, 11 MCF/D Gas, for 31 days. (Pro 20 figures)

\*Recov. 231 bbls. circ. oil, gravity 27.0° in 31 days.

During April, averaged 17 B/D oil, 145 B/D water, 2 MCF/D gas, 26.8° gravity. (Pro 20 figures)

San Gabriel #20  
Seal Beach

Standard Oil Company of California

DIVISION OF OIL AND GAS  
RECEIVED  
OCT 9 - 1947

SUMMARY

LOS ANGELES, CALIFORNIA

Total Depth: 6375' Plugs: 5650-5818', 6065-6375', cement.

<u>Casings:</u>	28" cemented	60'.	Not tested.
	18" "	567'.	" "
	11 3/4" cemented	4928'.	Deferred decision.
1293'	9" landed	5520'.	Perforated 5139-5520'. C.P. 5122-5139'. results indeterminate. Gun perf. 5121-5160'.
1701'	6 5/8" cemented	6172'.	Deferred decision. Gun perforated 5121- 5160' and 5599-5609'. Plugged with cement to 5650'.
198'	4 3/4" landed	6330'.	Perforated 6162-6330'.

Junk: 468' of 2" tubing cemented in place from 5850-6318'.

Perforation Details:

9" and 6 5/8"

	5121-5130'	- six 9/16" holes/foot	(Lane-Wells gun)
	5130-5150'	- ten 1/2" holes/foot	( " " " )
	5130-5144'	- six 9/16" holes/foot	( " " " )
	5144-5148'	- eighteen 9/16" holes/foot	( " " " )
	5148-5158'	- six 9/16" holes/foot	( " " " )
	5158-5160'	- eighteen 9/16" holes/foot	( " " " )
6 5/8"	5599-5609'	- six 1/2" holes/foot	(McCullough gun)
4 3/4"	6162-6330'	- 1 1/2" x 120 mesh, 6% undercut, 8 rows, 6" centers, Kobe.	

Harbor Production Service Driller: J. M. Newby

B. RICHARDS

BR:js  
10-1-47

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

RE-COMPLETION OR ABANDONMENT REPORT - PRO 319-DIVISION OF OIL AND GAS  
 STANDARD OIL COMPANY OF CALIFORNIA

RECEIVED  
 DEC 19 1956  
 LOS ANGELES, CALIFORNIA

FIELD: Seal Beach

PROPERTY: San Gabriel

WELL NO: 20

Sec. 11, T. 5-S., R. 12-W., S.B. B.&M.

Following is complete and correct record of all work done on the well since the previous record dated October 1, 1947.

PURPOSE OF WORK: Abandon

DATE OF REPORT: November 23, 1956

By W. C. JOHNSON  
 Manager, Production, So. Div.

WORK DONE BY: Macrate Production Service, contractor, using portable equipment.

COMMENCED OPERATIONS: August 11, 1956 COMPLETED OPERATIONS: August 20, 1956.

DATE WELL LAST PRODUCED: November 11, 1955 ABANDONED: August 20, 1956

S U M M A R Y

TOTAL DEPTH: 6375'

PLUGS: 0-15'; 499-712'; 4169-4227';  
 4433-5848' and 6065-6375',  
 cement.

CASING:	28"	cemented	60'	Not tested.
	18"	cemented	567'	with 200 sacks. Not tested.
	4241'	11-3/4"	cemented	4928' with 500 sacks. Deferred decision. Cut at 687'.
	1293'	9"	landed	5520' Perforated 5139-5520'. C.P. 5122-5139'. Gun perforated 5121-5160'.
	1701'	6-5/8"	cemented	6172' with 160 sacks. Deferred decision. Gun perforated 5121-5160' and 5599-5609'.
	198'	4-3/4"	landed	6330' Perforated 6162-6330'.

PERFORATIONS: 9" and 6-5/8" gun perforated with six 9/16" holes/foot from 5121-5144' and 5148-5158'; with ten 1/2" holes/foot from 5130-5150'; with eighteen 9/16" holes/foot from 5144-5148' and 5158-5160'.

6-5/8" gun perforated with six 1/2" holes/foot from 5599-5609', McCullough gun.

4-3/4" perforated from 6162-6330' with 8 rows, 1-1/2"x120 mesh, 5% undercut, 6" centers, Kobe.

JUNK: 468' of 2" tubing cemented in place from 5850-6318'.

San Gabriel #20  
Seal Beach

Standard Oil Company of California

34.

DIVISION OF OIL AND GAS  
RECEIVED

DEC 19 1956

Dissussion

San Gabriel #20 last produced 0/213 B/D on November 11, 1955 from the Upper and Lower Wasem zone. It has since remained shut-in as uneconomic.

Proposal (Dated August 7, 1956)

1. Bail hole clean to 5650' (top of Plug).
2. Plug 6-5/8" casing with cement from 5650' to 5050'.
3. Cap 6-5/8" and 9" stubs with 50' lineal feet of cement.
4. Fill hole with mud and attempt to cut and recover 11-3/4" from 620' or lower. If recovered, plug with cement and suspend.
5. If unable to recover 11-3/4" casing, hang wooden plug 15' below cellar floor. Fill to surface with cement. Weld steel plate over 28", 18" and 11-3/4" casings, clear location and abandon well.

Work Done

August 11, 1956, Macrate Production Service, contractor, moved in portable equipment and commenced work at 8:00 a.m. Installed B.O.P. and pulled rods.

August 12, 1956, pulled tubing and bailed sand from 5480' and 5650'.

To Plug Hole with Cement: August 13, 1956, pumped 46 sacks of type "S" cement, through 2-7/8" tubing hanging at 5640'. Preceded cement with 30 cubic feet of water. Displaced cement with 110 cubic feet of salt water. Five minutes mixing and pumping cement to place. Finished job at 6:30 p.m. Used Halliburton Cementing Company power equipment and bulk cement. Located top of cement at 5488'.

To Plug Hole with Cement: August 14, 1956, pumped 46 sacks of type "S" cement, through 2-7/8" tubing hanging at 5457'. Preceded cement with 180 cubic feet of water. Displaced cement with 125 cubic feet of salt water. Five minutes mixing and pumping cement to place. Finished job at 12:35 p.m. Used Halliburton Cementing Company power equipment and bulk cement. Located top of cement at 5221'.

San Gabriel #20  
Seal Beach

Standard Oil Company of California

27  
DIVISION OF OIL AND GAS  
RECEIVED

DEC 19 1956

CLAYTON

To Plug Hole with Cement: August 14, 1956, pumped 46 sacks of type "S" cement, through 2-7/8" tubing hanging at 5206'. Preceded cement with 175 cubic feet of water. Displaced cement with 125 cubic feet of water. Five minutes mixing and pumping cement to place. Finished job at 9:15 p.m. Used Halliburton Cementing Company power equipment and bulk cement. Located top of cement at 4433'.

Location and hardness of cement plug at 4433' witnessed and approved by Inspector G. C. Hazenbush of the Division of Oil and Gas.

August 15, 1956, placed a wooden plug on top of 9" casing at 4227' and capped with 30 sacks of type "A" cement.

August 16, 1956, located top of cement at 4169'.

August 17, 1956, ran Ford-Alexander free point indicator and located free point in 11-3/4" casing at 700'.

August 18, 1956, shot and recovered 11-3/4" casing from 687', leaving 4241' of 11-3/4" casing in hole from 687' to 4928'.

To Bridge Hole with Cement: August 19, 1956, pumped 148 sacks of type "A" cement, mixed with 20% sand to an average 118#/cu.ft. slurry, through 2-1/2" tubing hanging at 712'. Displaced cement with 18 cubic feet of mud. Ten minutes mixing and pumping cement to place. Finished job at 11:45 a.m. Used Byron Jackson power equipment and bulk cement. Located top of cement at 575'.

To Bridge Hole with Cement: August 19, 1956, pumped 100 sacks of type "A" cement, mixed to an average 118#/cu.ft. slurry, through 2-1/2" tubing hanging at 555'. Displaced cement with 15 cubic feet of drilling fluid. Ten minutes mixing and pumping cement to place. Finished job at 5:00 p.m. Used Byron Jackson power equipment and bulk cement. Located top of cement at 499'.

Location and hardness of cement bridge at 499' witnessed and approved by Inspector G. C. Hazenbush of the Division of Oil and Gas.

August 20, 1956, hung a wooden plug in 18" casing 15' below the cellar floor and filled to surface with cement.

Location and hardness of surface plug witnessed and approved by Inspector G. C. Hazenbush of the Division of Oil and Gas.

August 20, 1956, welded a steel plate on 28" and 18" casings and abandoned well in this condition.

San Gabriel #20  
Seal Beach

Standard Oil Company of California

DIVISION OF OIL AND GAS  
RECEIVED  
DEC 19 1956  
36.  
CALIFORNIA

---

Crew released at 8:00 p.m., August 20, 1956

Contractor: Macrate Production Service

Drillers: L. V. Patton  
J. A. McGraw  
H. Smith

N. TWERELL

NT:pb  
November 23, 1956

STENOGRAPHER

Date Received 10-9-47 Form 100 \_\_\_\_\_ 101 \_\_\_\_\_ 103 \_\_\_\_\_

Elec. Log \_\_\_\_\_ Radio Log \_\_\_\_\_

Direct. Surv. \_\_\_\_\_ Other Data Letter of alteration

Location \_\_\_\_\_

Elevation \_\_\_\_\_ Steno. 1

ENGINEER

BOND Blanket Release \_\_\_\_\_ Date Elig. \_\_\_\_\_ 150b \_\_\_\_\_

End Prem. Yr. \_\_\_\_\_ Release Requested \_\_\_\_\_ Superseded \_\_\_\_\_ Aban. \_\_\_\_\_

HOLD BOND \_\_\_\_\_ Reason \_\_\_\_\_

Data Needed None

Final Letter \_\_\_\_\_ Eng. SMR  
10/9/47

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. Pl-43028

Los Angeles 14, Calif. February 7, 1947

MR. W. C. Johnson

Los Angeles 54, Calif.

Agent for STANDARD OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your proposal to alter casing Well No. "San Gabriel" 20,  
Section 11, T5 S., R. 12 W., S.B. B. & M., Seal Beach Field, Los Angeles County,  
dated Jan. 31, 1947, received Feb. 5, 1947, has been examined in conjunction with records filed in this office.

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

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

11-3/4" cem. 4928', D. D., partially collapsed at 4163'; 6-5/8" cem. 6172', D. D.,  
perf. 5121'-5160', cut at 5000' and 4680', pulled from 4471'; 4-3/4" ld. 6133'-6330',  
perf. 6162'-6330'; Junk (in hole) 2-1/2" tbg. cem. 5850'-6318', plugged with cement,  
40 sacks above 6327', and 5850'-5378'.

THE NOTICE STATES:

"The present condition of the well is as follows:

- Complete casing record. Total Depth: 6375' Cement Plug: 5378-5848'  
Note - Top of junk 2 1/2" tubing at 5850'.  
Hole abandoned below that depth.  
Casing: 28" cemented at 60'  
18" cemented at 567'  
11 3/4" cemented at 4928' Deferred Decision.  
1293' of 9" landed at 5520' Perforated 5139-5520' & C.P. 'd 5122-5139'.  
Gun perforated 5121-5160'. Splice at 4227'. Tested OK.  
1701' of 6-5/8" cemented at 6172' Gun perforated 5121-5160'. Cut at 4680' & 5000'.
- Last produced December, 1946 9 B/D Oil and 9 B/D Water for 31 days.  
(Date)"

PROPOSAL:

"The proposed work is as follows: (Confirming conversation G. A. Collins - S. Rook)

- Pull rods and tubing and drill out cement plug 5378' to 5650' using oil for circulation.
- Shoot six 1/2" holes per foot from 5599-5609'. Wash perforations to determine if perforations are open, if not re-gun perforate and recheck.
- Return well to production."

DECISION:

THE PROPOSAL IS APPROVED.

SHR:OH

cc- J. E. Toussaint  
G. A. Collins  
Long Beach

R. D. BUSH  
State Oil and Gas Supervisor

By E. H. Musser Deputy

Blanket bond.

Records Filed	
100	10/9/47
101	
103	10/9/47 GAK
E. Log.	

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

DIVISION OF OIL AND GAS  
**RECEIVED**  
FEB 5 1947  
LOS ANGELES, CALIFORNIA

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

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

La Habra, Calif. January 31, 19 47

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at well No. San Gabriel #20  
(Cross out unnecessary words)

Sec. 11, T. 5 S, R. 12 W, S.B. B. & M.  
Seal Beach Field, Los Angeles County.

The present condition of the well is as follows:

- 1. Complete casing record. Total Depth: 6375' Cement Plug: 5378-5848'  
Note - Top of junk 2 1/2" tubing at 5850'.  
Hole abandoned below that depth.

Casing:

- 28" cemented at 60'
- 18" cemented at 567'
- 11 3/4" cemented at 4928' Deferred Decision.
- 1293' of 9" landed at 5520' Perforated 5139-5520' & C.P.'d 5122-5139'.  
Gun perforated 5121-5160'. Splice at 4227'. Tested OK.
- 1701' of 6 5/8" cemented at 6172' Gun perforated 5121-5160'. Cut at 4680' & 5000'.

- 2. Last produced December, 1946 9 B/D Oil and 9 B/D Water for 31 days.  
(Date) (NEED) (GIVEN) (GIVE)

The proposed work is as follows: (Confirming conversation G. A. Collins - S. Rook)

- 1. Pull rods and tubing and drill out cement plug 5378' to 5650' using oil for circulation.
- 2. Shoot six 1/2" holes per foot from 5599-5609'. Wash perforations to determine if perforations are open, if not re-gun perforate and recheck.
- 3. Return well to production.

MAP	MAP BOOK	CARDS	BOND	FORMS	
			blanket	emb	emb

Orig: DOG ✓  
cc: JET  
LA File  
MC File

*alter casing*

STANDARD OIL COMPANY OF CALIFORNIA

(Name of Operator)

By J.E. Gosline, Mgr. Prod. Dept. So. Dist.

STENOGRAPHER

Forms Filed Test of plugs & alter

Date Rec'd. 11-8-46

Electric Log \_\_\_\_\_

Location \_\_\_\_\_

Elevation \_\_\_\_\_

ENGINEER

Form Needed Name

Map Correction None

Form 150b (Date of Release)

At Request of Operator Blanket

Because Abandoned \_\_\_\_\_

Because Request by Oper. \_\_\_\_\_

Remarks OK receipt for history of

plugging & altering casing  
11-8-46

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

Report on Proposed Operations

No. P1-41982

Los Angeles 14, Calif. May 1, 1946

Mr. W. C. Johnson

Los Angeles 54, Calif.

Agent for STANDARD OIL COMPANY OF CALIFORNIA

121

DEAR SIR:

Your proposal to alter casing Well No. "San Gabriel" 20, Section 11, T.5 S., R.12 W., S.B.B. & M., Seal Beach Field, Los Angeles County, dated April 23, 1946, received April 25, 1946, 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:

9" ld. 5520', perf. 5130'-5520', c.p. 5122'-5139', pulled from 3921'; 6-5/8" cem. 6172', D.D., perf. 5130'-5150', pulled from 4471'. Plugged with cement 40 sacks above 6327', 5850'-5378'.

THE NOTICE STATES:

"The present condition of the well is as follows:

- Complete casing record. Total depth: 6375' Plugs: 5378': hole abandoned below 5378'.  
 28" cemented 60'  
 18" cemented 567'  
 11-3/4" cemented 4928', Deferred decision.  
 1293' of 9" landed 5520'. Perforated 5130-5150'.  
 1701' of 6-5/8" cemented 6172'. Deferred decision.  
 Perforated 5130-5150'. Plugged to 5378'.

- Last produced Averaged 8 B/D oil and 10 B/D water for 31 days of March 1946  
 (Date) (Net Oil) (Gravity) (Cut)"

PROPOSAL:

"The proposed work is as follows: (Confirming conversation, Rook-Colshan)

- Gun perforate 6-5/8" and 9" casings 5121-5130' and 5150-5160'.
- Return well to production."

DECISION:

THE PROPOSAL IS APPROVED.

SHR:OH

cc- J. E. Toussaint  
G. A. Collins  
Long Beach

R. D. BUSH  
State Oil and Gas Supervisor

By [Signature] Deputy

*See Record of plugging & Attenuating log filed 11-8-46 JAP*

DIVISION OF OIL AND GAS  
RECEIVED  
APR 25 1946  
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

Los Angeles Calif. April 23 1946

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. San Gabriel #20  
(Cross out unnecessary words)

Sec. 11, T. 5S, R. 12W, S. B. B. & M.  
Seal Beach Field, Los Angeles County.

The present condition of the well is as follows:

- Complete casing record. Total depth: 6375' Plug: 5378'; hole abandoned below 5378'.  
 28" cemented 60'  
 18" cemented 567'  
 11-3/4" cemented 4928'. Deferred decision.  
 1293' of 9" landed 5520'. Perforated 5130-5150'.  
 1701' of 6-5/8" cemented 6172'. Deferred decision.  
 Perforated 5130-5150'. Plugged to 5378'.

- Last produced Averaged 8 B/D oil and 10 B/D water for 31 days of  
(Date) (Net Oil) (Gravity) (Cut) March 1946

The proposed work is as follows: (Confirming conversation, Rook-Colahan)

- Gun perforate 6-5/8" and 9" casings 5121-5130' and 5150-5160'.
- Return well to production.

*alter casing*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
		<i>Blanket</i>		<i>M</i>	<i>M</i>
		<i>101,906</i>			

Orig. D.O.G. ✓  
CC: J.E.T.  
L.A. File  
M.C. File

STANDARD OIL COMPANY OF CALIFORNIA

(Name of Operator)

By *J.H. Reinhart*  
J.E. Gosline, Mgr. Prod. Dept. So. Dist.

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-41398

Los Angeles 14, Calif. November 27, 19 45

MR. W. C. Johnson

Los Angeles 54, Calif.

Agent for STANDARD OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your supplementary proposal to plug & alter casing Well No. "San Gabriel" 20,  
Section 11, T. 5 S., R. 12 W., S.B. B. & M., Seal Beach Field, Los Angeles County,  
dated Nov. 19, 19 45, received Nov. 21, 19 45, 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 new conditions are as follows:

Total Depth: 6375'. Plug: 5378'. Hole abandoned below 5378'.

Casing: 28" cemented 60'.  
18" cemented 567'.

11-3/4" cemented 4928'. Deferred Decision  
1599' of 9" Landed 5520'. Perforated 5139' - 5520'. C.P. 5122-5139'. Results Indeterminate.

1701' of 6-5/8" Cemented 6172'. Deferred Decision. Perforated 5130' - 5150'. Plugged with cement to 5378'.

Condition of Casing: No record of bad pipe. On September 12, 1945, a 3-1/2" bailer went to 5378' (Top of plug)

Recent Production: Averaged 0 B/D oil and 326 B/D water for 24 days in October, 1945. Water tested 1720 G/G

Work Completed since Previous Notice to Plug and Alter Casing Dated 7/3/45:

1. Plugged with cement 6035' - 6328' and 5560'-5848'. Top of plug at 5560' approved by Division of Oil and Gas.
2. Plugged with cement 5378'-5560'.
3. Cut and recovered 6-5/8" casing from 4471'.
4. Cut and recovered 9" casing from 3921'.
5. Pressure tested 6-5/8" x 9" and 9" x 11-3/4" splices; held 1100# for 15 minutes without loss.
6. Gun perforated 6-5/8" casing 5130'-5150'.
7. Returned well to production September 14th, 1945. Averaged no oil and 246 B/D water for 17 days in September 1945 with pump at 4140'. Averaged no oil and 326 B/D water for 24 days in October, 1945. Water tested 1720 grains per gallon. Well stdg idle since October 25, 1945."

PROPOSAL:

"We now propose:

1. Clean out to 5378'. (Top of plug)
2. Set cement retainer at 5100' and squeeze perforations 5130'-5150' with cement.
3. Clean out to 5378'.
4. Re-gun perforate 6-5/8" casing 5130'-5150' with four 1/2" holes per foot.

R. D. BUSH

State Oil and Gas Supervisor

By (CONTINUED ON PAGE 2) Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-41398

Page 2

STANDARD OIL COMPANY OF CALIFORNIA

Well No. "San Gabriel" 20, Section 11, T. 5 S., R. 12 W., S.B. B. & M.,

5. Return to production."

DECISION:

THE PROPOSAL IS APPROVED.

ERMA:GH

cc- J. E. Toussaint  
G. A. Collins  
Long Beach

*B/W*

*4/23/46 - Calahan-Rock. - was pg. back & perf'd top of Wasen zone  
fr. 5130-50. Now producing 8 b/d oil 10 b/d water  
Propose perf 5121-30 & 5150-60 and put back on prod. will  
file notice.  
we need records of work done since 7/3/45*

*See Records filed  
11-8-46*

R. D. BUSH

State Oil and Gas Supervisor

By *[Signature]*

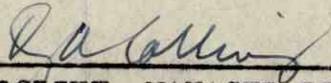
Deputy

S.G. #20

- (1) Plug with cement 6330-6100'.
- (2) Set bridge plug at 5400 and cap with 20' of cement.
- (3) Cut and recover 6-5/8" casing from 5000' or above if necessary.
- (4) Pressure test 6-5/8" x 9" splice. If splice takes fluid, squeeze with cement.
- (5) Cut and recover 9" casing from 4700' or above if necessary.
- (6) Pressure test 9" x 11-3/4" splice. If splice takes fluid, squeeze with cement.
- (7) Gun perforate 6-5/8" casing 5130-5150'.
- (8) Return well to pump.

STANDARD OIL COMPANY OF CALIFORNIA

By

  
\_\_\_\_\_  
J. E. GOSLINE, MANAGER PRODUCING  
DEPARTMENT, SOUTHERN DISTRICT

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

DIVISION OF OIL AND GAS  
RECEIVED  
NOV 21 1945  
LOS ANGELES, CALIFORNIA

Supplementary Notice

Los Angeles Calif. Nov. 19 19 45

DIVISION OF OIL AND GAS

Los Angeles Calif.

Our notice to you dated July 3, 19 45, stating our intention to

Plug and alter casing well No. San Gabriel #20  
(Drill, deepen, redrill, abandon)

Sec. 11, T. 5 S, R. 12 W, S.B. Seal Beach B. & M. Field,

Los Angeles County, must be amended on account of changed or recently

discovered conditions.

The new conditions are as follows:

Total Depth: 6375'. Plug: 5378'. Hole abandoned below 5378'.

Casing: 28" cemented 60'.  
18" cemented 567'.  
1599' of 11-3/4" cemented 4928'. Deferred Decision  
9" Landed 5520'. Perforated 5139' - 5520'.  
C.P. 5122-5139'. Results Indeterminate.

1701' of 6-5/8" Cemented 6172'. Deferred Decision. Perforated  
5130' - 5150'. Plugged with cement to  
5378'.

Condition of Casing: No record of bad pipe. On September 12, 1945,  
a 3 1/2" bailer went to 5378' (Top of plug)

WORKING PURPOSE

Recent Production: Averaged 0 B/D oil and 326 B/D water for 24 days in  
October, 1945. Water tested 1720 G/G.

Work Completed since Previous Notice to Plug and Alter Casing Dated 7/3/45:

1. Plugged with cement 6035' - 6328' and 5560'-5848'. Top of plug at 5560' approved by Division of Oil and Gas.
2. Plugged with cement 5378'-5560'.
3. Cut and recovered 6-5/8" casing from 4471'.
4. Cut and recovered 9" casing from 3921'.
5. Pressure tested 6-5/8" x 9" and 9" x 11-3/4" splices; held 1100# for 15 minutes without loss.
6. Gun perforated 6-5/8" casing 5130'-5150'.
7. Returned well to production September 14th, 1945. Averaged no oil and 246 B/D water for 17 days in September 1945 with pump at 4140'. Averaged no oil and 326 B/D water for 24 days in October, 1945. Water tested 1720 grains per gallon. Well stdg idle since October 25, 1945.

(See Page Two)

xBrx



DIVISION OF OIL AND GAS  
RECEIVED  
NOV 21 1945  
LOS ANGELES, CALIFORNIA

- 2 -

San Gabriel #20

11/19/45

We Now Propose:

1. Clean out to 5378'. (Top of plug)
2. Set cement retainer at 5100' and squeeze~~per-~~ perforations 5130'-5150' with cement.
3. Clean out to 5378'.
4. Re-gun perforate 6-5/8" casing 5130'-5150' with four 1/2" holes per foot.
5. Return to production.

STANDARD OIL COMPANY OF CALIFORNIA

For

*J. E. Gosline*  
\_\_\_\_\_  
J. E. GOSLINE, MGR. PROD. DEPT.  
SOUTHERN DISTRICT

ORIG: D.O.G.  
J.E.T.  
L.A. FILE  
M.C. FILE

*Sup. plugs after casing*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
			<i>Blanket 101,906</i>	<i>end</i>	<i>end</i>

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-44309

Mr. W. C. Johnson Los Angeles 14, Calif. August 22, 19 45  
Los Angeles 54, Calif.  
Agent for STANDARD OIL COMPANY OF CALIFORNIA

DEAR SIR:

Operations at your well No. "San Gabriel" 20 Sec. 11, T. 5 S., R. 12 W., S. B. B. & M.,  
Seal Beach Field, in Los Angeles County, were witnessed by  
Chas. Corwin, Inspector representative of the supervisor,  
on August 10, 19 45. There was also present G. F. Stanford, Drilling Foreman  
J. M. Newby, Driller

Casing Record	28" cem. 60'; 18" cem. 567'; 11-3/4" cem.	Junk	None sidetracked
	4928', def. dec.; 9" ld. 5520', c.p. 5122'-5139', perf.		
	5122'-5520'; 6-5/8" cem. 6172', def. dec.; 4-3/4" ld.		
	6132'-6330', perf. 6162'-6330'. Junk (in hole) 2"		
	tubing 5850'-6327'. T.D. 6375', plugged with cement		
	40 sacks above 6327' and 5850'-5560'		

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 5850'-5560', in the process of plugging.

The inspector arrived at the well at 12:30 p.m. and Mr. Stanford reported:

1. On August 7, 1945, 40 sacks of cement was pumped in the hole through 2" tubing hanging at 6327'.
2. The 2" tubing was cemented in the hole at 6327' and was recovered from 5850'.
3. On August 9, 1945, 40 sacks of cement was dumped in the hole beginning at 5850'.

THE INSPECTOR NOTED that the bailer could not be spudded below 5560' and brought up a sample of set cement.

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

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 5560' ARE APPROVED.

cc - J. E. Toussaint  
G. A. Collins  
Long Beach

CC:ES

*W/mt*

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 1-40906

Los Angeles 14, Calif. July 10, 1945

Mr. W. C. Johnson

Los Angeles, Calif.

Agent for STANDARD OIL COMPANY OF CALIFORNIA

171

DEAR SIR:

Your plug and alter casing proposal to Well No. "San Gabriel" 20,  
Section 11, T. 5 S., R. 12 W., S.E.B. & M., Seal Beach Field, Los Angeles County,  
dated July 3, 1945, received July 5, 1945, has been examined in conjunction with records filed in this office.

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

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

THE NOTICE STATES:

"The present condition of the well is as follows:

- 1. Complete casing record.

Total Depth: 6375' Plugs: 6330-6375 Junk: None

Casing: 28" cemented 60'  
18" cemented 567' Not tested  
11-3/4" cemented 4928 Deferred decision  
9" landed 5520, perf'd 5122-5520', c.p. 5122-5139,  
results indeterminate.  
6-5/8" cemented 6172, Deferred decision  
198' 4-3/4" landed 6330, perf'd 6162-6330."

PROPOSAL:

"The proposed work is as follows:

Condition of Casing: No record of bad pipe.

Recent Production, Averaged 4 B/D oil and 30B/D water for 29 days  
in May 1945, pump @ 6277'.

The proposed work is as follows: Confirming conversation Collins -  
Murray - Aaron

- (1) Plug with cement 6330-6100'.
- (2) Set bridge plug at 5400 and cap with 20' of cement.
- (3) Cut and recover 6-5/8" casing from 5000' or above if necessary
- (4) Pressure test 6-5/8" x 9" splice. If splice takes fluid, squeeze with cement.
- (5) Cut and recover 9" casing from 4700' or above if necessary.
- (6) Pressure test 9" x 11-3/4" splice. If splice takes fluid, squeeze with cement.
- (7) Gun perforate 6-5/8" casing 5130-5150'.
- (8) Return well to pump."

DECISION:

THE PROPOSAL IS APPROVED.

cc - P.A.W.

J. E. Toussaint  
G. A. Collins  
Long Beach

*Handwritten initials*

R. D. BUSH

State Oil and Gas Supervisor

By E. H. Messer Deputy

Records Filed  
100 \_\_\_\_\_  
101 7-11-8-46  
103 \_\_\_\_\_  
E. Log. \_\_\_\_\_

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS  
RECEIVED  
JUL 5 - 1945

Notice of Intention to ~~Deepen, Re-drill,~~ Plug or Alter Casing in Well

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

Los Angeles Calif. July 3 1945

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, re-drilling,~~ <sup>and</sup> plugging ~~or~~ altering casing at well No. San Gabriel #20

(Cross out unnecessary words)

Sec. 11, T. 5S, R. 12W, S.B. B. & M.

Seal Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

Total Depth: 6375'      Plugs: 6330-6375      Junk: None

Casing: 28" cemented 60'  
18" cemented 567' Not tested  
11-3/4" cemented 4928 Deferred decision  
9" landed 5520, perf'd 5122-5520', c.p. 5122-5139, results indeterminate.  
6-5/8" cemented 6172, Deferred decision  
198' 4-3/4" landed 6330, perf'd 6162-6330.

2. Last produced \_\_\_\_\_  
(Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

Condition of Casing: No record of bad pipe

Recent Production, Averaged 4 B/D oil and 30B/D water for 29 days in May 1945, pump @ 6277'.

The proposed work is as follows: Confirming conversation Collins - Murray - Aaron (See Attached)

cc:  
D.O.G.  
LA File  
MC File  
J.E.T.  
P.A.W.

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
			Blanket 101,906	Emb	Emb

*Plug alter casing*

Standard Oil Company of California  
(Name of Operator)

By *J. E. Gosline*  
J. E. Gosline, Mgr. Prod. Dept. So. Dist.

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off  
(BAILING)

No. T-1-24892

Los Angeles, Cal. February 21, 1933.

Mr. L. B. Little,

Los Angeles, Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA ~~Company~~

DEAR SIR:

Your well No. "SAN GABRIEL" 20, Sec. 11, T. 5 S., R. 12 W., S. B. B. & M.,

Seal Beach Oil Field, in Los Angeles County, was tested for

shut-off of water on February 11, 1933. Mr. V. Austin

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 E. S. White, Engineer, and

J. Holt, Driller.

Location of water tested above 6171' and normal fluid level Not determined

Depth and manner of water shut-off: { 6171 ft. of 6-5/8 in. 28 lb. } casing was { cemented } in Shale  
{ ft. of in. lb. } { 2/2/33 }  
~~Formation~~

at 6171 ft. with 160 sacks Santa Cruz cement by casing method.

Water string was landed in 8 1/2" rotary hole.

Size, rotary or cable tool

Casing record of well 28" S.P. cem. 60'; 18" S.P. cem. 567'; 11 1/2" cem. 4928', D.D.; 9" ld. 5520', perf. 5122'-5520', c.p. 5122'-5139'; 6-5/8" as above.

Reported total depth of hole 6183 ft. Hole bridged from xx ft. to xx ft. Hole cleaned out to 6183 ft. for this test.

At time of test depth of hole measured 6183 ft. and bailer brought up sample of Sand

At 4:30 p.m., Feb. 10, 1933 oil bailed to xxx ft., drilling fluid { bailed } to 3000 ft.  
Time and date { scrubbed }

At 9:30 a.m., Feb. 11, 1933 top of oil found at xxx ft., top of fluid found at 2825 ft.  
Time and date

Result of test:

MR. WHITE REPORTED THE FOLLOWING:

1. No fluid entered the well when bailed to 3010' and allowed to stand 4 hr. for casing test.
2. 35' of set cement was drilled out of the 6-5/8" casing, equivalent to 6 sacks.
3. The last 100 sacks of cement was treated with quick setting chemical.
4. While bailing for test well was making some gas and fluid was surging up and down the hole.

THE INSPECTOR NOTED THE FOLLOWING:

1. The fluid rose 175' in 17 hr., equivalent to 9.2 bbl. per 24 hr.
2. The fluid sample from top was mostly oil and from bottom was oily, gas cut mud fluid.
3. The sample from bottom tested 68 gr. of salt per U. S. Gallon.

The test indicates that the 6-5/8" shut-off is probably effective, but is not conclusive because of the high fluid rise. A decision is therefore deferred pending the receipt of production data after completion of the well.

cc-R. C. Stoner  
P. C. McConnell  
Huntington Beach

7/3/45 Geo Collins phoned TP 6375 prod'g 6330-6172  
will plug 6330-6100 R. D. BUSH (McBrath)  
plus 5460 w/cem on (we will not witness) bridge  
top Rec. 6376 @ 5000 ±

State Oil and Gas Supervisor

VA:CH

ESB

9 @ 4700 I  
test both splices - gun perf 5150-5130 (locker below) ERma

By Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS  
RECEIVED  
FEB 7 1933  
LOS ANGELES, CALIFORNIA

DOG  
RCS  
PCM  
CLB

Notice of Test of Water Shut-Off

This notice must be given at least five days before the test, and a longer time is desirable

Los Angeles, Cal. Feb. 3, 19 33

Mr. E. Huguenin,

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to test the shut-off of water in well No. San Gabriel #20, Sec. 11, T. 5-S., R. 12-W., S.B. B. & M., Seal Beach Oil Field, Los Angeles County, on the 9th day of February, 1933.

6 5/8 inch 28 lb. casing was ~~laid~~ cemented in brown shale and OIL SAND (Formation) at 6171 (Depth) on Feb. 2, 19 33 (Date)

160 sacks of Santa Cruz (Kind) cement were used.

The Perkins method was used in placing cement.

Fluid level will be bailed to a depth of 3000 feet and left undisturbed for at least 12 hours before your inspection.

The well is 6183 feet deep. There is/is not a plug or bridge from feet to feet.

Cored continuously from 6054 to 6183', obtained good recovery.

6054-6163 grey sands that looked unquestionably wet and few streaks shale 6085-6090; estimate top of Upper McGrath Zone at 6090'.

6163-6165 compact brownish gray shale.

6165-6169 firm medium grained well saturated OIL SAND and streaks shale 6167-6168

6169-6173 no recovery, cored like brown shale streaks OIL SAND

6173-6183 firm medium grained well saturated OIL SAND

Respectfully yours

STANDARD OIL COMPANY OF CALIF.,

(Name of Company or Operator)

By L.B. Little - Gen'l. Supt.

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

Reference to file of data

Maps	Model	Certs.	Forms	
			11	12
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

GAC:SR

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T. -1-24833

Los Angeles, Cal. February 1, 1933.

Mr. L. B. Little,

Los Angeles, Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA ~~X COMPANY~~ Company

121

DEAR SIR:

Operations at your well No. "SAN GABRIEL" 20 Section 11, T. 5 S., R. 12 W., S.E. B. & M., Seal Beach Oil Field, in Los Angeles County, were witnessed by

F. C. Hodges, representative of the supervisor,

on January 29, 1933. There was also present R. E. Downs, Driller, and W. Henry, Foreman.

Casing Record 28" S.P. cem. 60'; 18" S.P. cem. 567'; 11 1/4" cem. 4928', def. dec.; 9" landed 5520', perf. 5122'-5520', c.p. 5122'-5139'; T.D. 6183'.

The operations were performed for the purpose of demonstrating that the formations between 5520' and 6183' were mudded until the loss was not more than 1.0 bbl. per hr.

and the data and conclusions are as follows:

MR. HENRY REPORTED THE FOLLOWING:

1. A. 7-5/8" rotary hole was drilled from 5520' to 6183' and underreamed to 8 3/4" from 5520' to 6183'.
2. Mud fluid was circulated for 3 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 6180' during the test.
5. Cores were taken from the following important depths:  
6153' - 6165' Gray sand.  
6165' - 6170' Shale.  
6170' - 6183' Oil sand.

THE INSPECTOR NOTED THAT during a circulation test from 12:05 p. m. to 12:35 p. m. mud fluid was lost from the pit at the rate of 1.0 bbl. per hr.

THE MUDDING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval given to cement 6-5/8" casing at 6170' is hereby confirmed.

cc-R. C. Stoner  
P. C. McConnell  
Huntington Beach  
FCH:OH

*L. H. M.*

R. D. BUSH

State Oil and Gas Supervisor

By *E. H. [Signature]* Deputy

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

**Report on Proposed Operations**

No. P -1-24882

Los Angeles, Cal. December 20, 19 32.

Mr. L. B. Little,  
Los Angeles, Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA ~~Company~~

DEAR SIR:

Your proposal to deepen Well No. "SAN GABRIEL" 20,  
Section 11, T. 5 S., R. 12 W., S.B. B. & M., Seal Beach Oil Field, Los Angeles County,  
dated Dec. 10, 19 32, received Dec. 16, 19 32, 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:

- Depth - 5576' Plug - 5500-5576' (cement)
- Casing Record: 28" Stovepipe cemented - 60' - not tested.
- 18" cemented 567' - not tested.
- 11 3/4" cemented 4928' - deferred decision.
- 9" landed 5520', bottom 398' perforated, cemented through perforations @ 5122', tested wet. Recemented through perforations 5122-5139', results indeterminate.

Junk - None.

The daily average for May, 1931 was 115 bbls. oil and 425 bbls. water. The well remained shut in for curtailment from May, 1931 to Sept., 1932 when a 28-day pumping test was made during which well averaged 36 bbls. oil and 477 bbls. water daily."

PROPOSAL:

"The proposed work is as follows: (Confirming conversation Austin-Collins) -

1. Deepen thru 9" casing, coring from about 6050'.
2. Cement 6-5/8" casing at about 6090', over the Upper McGrath zone, using sufficient cement to reach to 5000', due to questionable 9" combination shutoff. Your department will be notified to witness mud test prior to running 6-5/8" casing and a shutoff test on same.
3. Complete at about 6400' (the exact depth to be determined by coring) with 4 1/2" liner."

DECISION:

THE PROPOSAL IS APPROVED.

cc-P. C. McConnell  
R. C. Stoner  
Huntington Beach  
GP:OH

R. D. BUSH  
State Oil and Gas Supervisor

By E. J. Ferguson Deputy

Division of Oil & Gas.  
DIVISION OF OIL AND GAS  
RECEIVED  
DEC 16 1932  
LOS ANGELES, CALIFORNIA

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

Los Angeles, Cal. December 10, 1932.

Mr. E. HUGUENIN

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

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

20, Sec. 11, T. 5 S., R. 12 W., S.B. B. & M.  
Seal Beach Oil Field, Los Angeles County.

The present condition of the well is as follows: Depth - 5576' Plug - 5500-5576' (cement)  
Casing Record: 28" Stovepipe cemented - 60' - not tested.  
18" cemented 567' - not tested.  
11 1/4" cemented 4928' - deferred decision.  
9" landed 5520', bottom 398' perforated, cemented through perforations @ 5122', tested wet. Recemented through perforations 5122-5139', results indeterminate.

Junk - None.

The daily average for May, 1931 was 115 bbls. oil and 425 bbls. water. The well remained shut in for curtailment from May, 1931 to Sept., 1932 when a 28-day pumping test was made during which well averaged 36 bbls. oil and 477 bbls. water daily.

The proposed work is as follows: (Confirming conversation Austin-Collins) -

1. Deepen thru 9" casing, coring from about 6050'.
2. Cement 6-5/8" casing at about 6090', over the Upper McGrath zone, using sufficient cement to reach to 5000', due to questionable 9" combination shutoff. Your department will be notified to witness mud test prior to running 6-5/8" casing and a shutoff test on same.
3. Complete at about 6400' (the exact depth to be determined by coring) with 4 1/4" liner.

*repe*

Reference to file of data

Respectfully yours

Maps	Model	Cross section	Cards	Forms	
				110	121
				✓	✓

STANDARD OIL COMPANY OF CALIFORNIA,

Name of Company or Operator  
By *D. B. Little*  
General Supt.

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off  
(BAILING)

No. T-1-17227

Los Angeles Cal. April 8 1929

Mr. L. B. Little

Whittier Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA Company

DEAR SIR:

Your well No. "SAN GABRIEL" 20, Sec. 11, T. 5 S, R. 12 W, S. B. B. & M., Seal Beach Oil Field, in Los Angeles County, was tested for

shut-off of water on April 5, 1929. Mr. V. Austin, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there

were also present W. Bardley, Engineer, and

F. Temple, Driller

Location of water tested above 4928' and normal fluid level not determined

Depth and manner of water shut-off: { 4928 ft. of 11 1/2 in. 60 lb. } casing was { cemented } in shale Formation  
{ ft. of in. lb. } { 3/27/29 } { treated }

at 4928 ft. with 500 sacks Victor cement by Perkins method.

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

Casing record of well 18" S.P. cem. 567'; 11 1/2" as above.

Reported total depth of hole 4944 ft. Hole bridged from - ft. to - ft. Hole cleaned out to 4944 ft. for this test.

At time of test depth of hole measured 4944 ft. and bailer brought up sample of sand

At 8 p.m. April 4, 1929 oil bailed to - ft., drilling fluid { bailed } to 1700 ft.  
Time and date { swabbed }

At 9 a.m. April 5, 1929 top of oil found at - ft., top of fluid found at 1540 ft.  
Time and date

Result of test:

MR. BARDLEY REPORTED THE FOLLOWING:

1. No casing test was made.
2. 63' of set cement was drilled out of the 11 1/2" casing, equivalent to 37 sacks.
3. The cement was not treated.
4. When bailed to 1500' and allowed to stand 2 hr. the fluid level rose 120'.
5. When bailed to 1700' the well began to show considerable gas.

THE INSPECTOR NOTED THE FOLLOWING:

1. The fluid rose 160' in 13 hr., equivalent to 32.4 bbl. per 24 hr.
2. Gas was issuing from the casing.
3. The fluid sample from 1540' was gas cut mud fluid and from 4944' was heavy gas cut mud fluid showing no free water and a trace of oil.

CONTINUED ON PAGE TWO

cc-J.M. Atwell  
G.L. Andrews  
Huntington Beach

R. D. BUSH  
State Oil and Gas Supervisor

By \_\_\_\_\_ Deputy

VA:BB

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING  
DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off  
OR  
Special Report on Operations Witnessed

No. T-1-17227  
Page 2

STANDARD OIL COMPANY OF CALIFORNIA ~~Company~~

Well No. "SAN GABRIEL" 20, Sec. 11, T. 5 S, R. 12 W, S.B. B. & M.,

4. A salt test of the water filtered from the heavy mud fluid from 4944' showed 60 gr. per U.S.gallon.

THE TEST INDICATES THAT THE 11 1/2" shut off is probably effective but is not conclusive because of the high fluid rise. A decision is therefore deferred pending the receipt of further production data.

R. D. BUSH  
State Oil and Gas Supervisor

By E. Arguier Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING

DEPARTMENT OF PETROLEUM AND GAS

Special Report on Operations Witnessed

No. T-1-17384

Los Angeles

Cal.

April 25 1929

Mr. L. B. Little

Whittier

Cal.

Agent for STANDARD OIL COMPANY OF CALIFORNIA Company

DEAR SIR:

Operations at your well No. "SAN GABRIEL" 20 Section 11, T. 5 S, R. 12 W, S.B. B. & M., Seal Beach Oil Field, in Los Angeles County, were witnessed by V. Austin

on April 24, 1929. There were also present R. D. Copley, Engineer and J. D. Temple, Driller

Casing Record 28" S.P. cem. 60'; 18" S.P. cem. 567'; 11 1/2" cem. 4928', deferred decision. Total depth 5576', plugged with cement 5520-5576'.

The operations were performed for the purpose of demonstrating that the formations between 4928' and 5120' were mudded until the loss was not more than 1.0 bbl. per hr.

and the data and conclusions are as follows:

MR. COPLEY REPORTED THE FOLLOWING:

1. An 11" rotary hole was drilled from 4928' to 5576' and plugged with cement from 5576' to 5520'.
2. Mud fluid viscosity than
3. Mud fluid was circulated for 4 1/2 hr. prior to the test.
3. The average rate of loss for a 3 hr. period prior to the test was 2.0 bbl. per hr.
4. The drill pipe was hanging at 5514' during the test.
5. Cores were taken from the following important depths:
  - 5091-5106' - hard dark sandy shale
  - 5106-5108' - hard dark sandy shale and thin streaks of oil sand
  - 5108-5121' - hard sandy shale
  - 5121-5141' - oil sand
  - 5141-5146' - sandy shale and streaks of oil sand
  - 5320-5574' - oil sand, streaks of shale
  - 5574-5576' - grey sand.

THE INSPECTOR NOTED THAT during a circulation test from 10:30 a.m. to 11 a.m. mud fluid was lost from the pit at the rate of 1.0 bbl. per hr.

THE MUDDING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval to land 9" casing at 5520' and cement thru perforations at 5120' is hereby confirmed.

cc--J. M. Atwell-G. L. Andrews  
Huntington Beach

R. D. BUSH

State Oil and Gas Supervisor

By *E. Ferguson* Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINES AND MINING  
DEPARTMENT OF PETROLEUM AND GAS

DIVISION OF MINES & MINING  
RECEIVED  
APR - 4 1929  
Department of Petroleum and Gas  
LOS ANGELES, CALIFORNIA

Notice of Test of Water Shut-Off

This notice must be given at least five days before the test, and a longer time is desirable

Whittier, Cal. March 28, 1929

Mr. E. Huguenin

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to test the shut-off of water in well No. San Gabriel No. 20, Sec. 11, T. 5-S., R. 12-W., S.B. B. & M., Seal Beach Oil Field, Los Angeles County, on the 1st day of April, 1929. 11 3/4 inch 60 lb. casing was landed/cemented in hd dk sandy shale at 4928 (Formation) (Depth) on March 27, 1929 (Date)

500 sacks Victor (Kind) of cement were used.

The Perkins method was used in placing cement.

Fluid level will be bailed to a depth of 1800 feet and left undisturbed for at least 12 hours before your inspection.

The well is 4944 feet deep. There is/is not a plug or bridge from feet to feet.

Respectfully yours

STANDARD OIL COMPANY OF CALIF. (Name of Company or Operator)

By

G. L. Andrews

Reference to file of data

Model	Gas Section	Cards	Forms
519			114 121

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