



DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES  
1000 S. Hill Rd, Suite 116 Ventura, CA 93003-4458  
Phone: (805) 654-4761 Fax: (805) 654-4765  
**REPORT ON OPERATIONS**

No. T215-0430

GAS STORAGE PROJECT  
"Sesnon-Frew" - Modelo (Miocene-Eocene)

Thomas W. Schroeder  
Southern California Gas Company (S4700)  
9400 Oakdale Avenue  
Chatsworth, CA 91313

Ventura, California  
November 10, 2015


Your operations at well **"Standard Sesnon" 25**, A.P.I. No. **037-00776**, Sec. **28**, T. **03N**, R. **16W**, **SB B. & M.**, **Aliso Canyon** field, in **Los Angeles** County, were witnessed on **11/5/2015**. **Kris Gustafson**, a representative of the supervisor.

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

**DECISION:**

APPROVED

Steven Bohlen  
State Oil and Gas Supervisor

By   
Bruce Hesson  
District Deputy

KG/tkc  
OG109

## BLOWOUT PREVENTION EQUIPMENT MEMO

# 11, 1

Operator Socal Gas Well Session 25 Sec. 28 T. 03N R. 16W  
 Field Aliso Cyn County Los Angeles Spud Date \_\_\_\_\_  
 VISITS: Date Engineer Time Operator's Rep. Title  
 1st 11/4/15 K. Constanzo (0700 to 1730) Todd Vander Pute company man  
 2nd 11/5/15 11 (0900 to 1700) \_\_\_\_\_ \_\_\_\_\_  
 Contractor Boots & Coats Rig # CTH #4 Contractor's Rep. & Title Jack Abate PSS  
 Casing record of well: Danny Clayton PSS

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☐ N ☒DECISION: The blowout prevention equipment and its installation on the 7 " casing are approved.

Proposed Well Opns: Kill the well MACP: \_\_\_\_\_ psi  
 Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ " to \_\_\_\_\_ " to \_\_\_\_\_ " & \_\_\_\_\_ " to \_\_\_\_\_ " REQUIRED BOPE CLASS: III SM

## CASING RECORD OF BOPE ANCHOR STRING

## Cement Details

## Top of Cement

Size	Weight(s)	Grade(s)	Shoe at	CP at		Casing	Annulus
<u>11 3/4</u>	<u>42</u>	<u>H-40</u>					
<u>7</u>	<u>23, 26, 29#</u>	<u>K-55, N-80</u>					

## BOP STACK

## TEST DATA

API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>R</u>	<u>2 1/2</u>	<u>Halliburton</u>	<u>4850</u>		<u>15M</u>								
<u>RA</u>	<u>C50</u>												
<u>RA</u>	<u>1 1/2</u>												
<u>S</u>													
<u>Rd C50</u>													

## ACTUATING SYSTEM

## TOTAL:

## AUXILIARY EQUIPMENT

Accumulator Unit(s) Working Pressure <u>3000</u> psi								Connections				Test Press		
Total Rated Pump Output _____ gpm Fluid Level								No.	Size (in.)	Rated Press	Weld		Flange	Thread
Distance from Well Bore <u>60</u> ft.														
Accum. Manufacturer		Capacity		Precharge		Fill-up Line								
1	<u>Koorey Type</u>		<u>60</u> gal.	<u>1200</u> psi		Kill Line								
2			gal.	psi		<u>2</u> Control Valve(s)		<u>HCR</u>		<u>X</u>				
CONTROL STATIONS				Elec.		Hyd.		Pneu.						
Manifold at accumulator unit						Check Valve(s)								
Remote at Driller's station						Aux. Pump Cnnct.								
Other:						Choke Line		<u>2</u>						
						Control Valve(s)		<u>HCR</u>		<u>5M</u>				
EMERG. BACKUP SYSTEM				Press.		Wkg.Fluid		Pressure Gauge						
N2 Cylinders	1	L= <u>55</u> "			gal.		Adjustble Choke(s)		<u>2 1/4 3 1/4</u>		<u>4.2m</u>			
Other:	2	L= "			gal.		Bleed Line		<u>2</u>					
	3	L= "			gal.		Upper Kelly Cock							
	4	L= "			gal.		Lower Kelly Cock							
	5	L= "			gal.		<del>Standpipe Valve</del>		<u>CTW</u>					
	6	L= "			gal.		Stndpipe Pres. Gau.							
				TOTAL:		gal.		Pipe Safety Valve		<u>CGI</u>				

## CONTROL STATIONS

Elec. Hyd. Pneu.

Manifold at accumulator unit

Remote at Driller's station

Other:

## EMERG. BACKUP SYSTEM

Press. Wkg. Fluid

N2 Cylinders	1	L= <u>55</u>	"	gal.
Other:	2	L=	"	gal.
	3	L=	"	gal.
	4	L=	"	gal.
	5	L=	"	gal.
	6	L=	"	gal.

TOTAL: gal.

## HOLE FLUID

## Alarm Type

## MONITORING EQUIPMENT

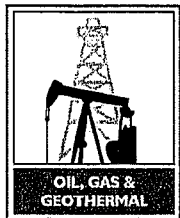
Audible Visual Class

Calibrated Mud Pit			A
Pit Level Indicator			B
Pump Stroke Counter			
Pit Level Recorder			
Flow Sensor			
Mud Totalizer			
Calibrated Trip Tank			
Other:			

Hole Fluid Type Weight Storage Pits (Type &amp; Size)

## REMARKS AND DEFICIENCIES:

NOTE: Work done w/ CT R.L.  
Drill called & approved on 11/5/2015



N. JRAL RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES  
1000 S. Hill Rd, Suite 116 Ventura, CA 93003 - 4458

## PERMIT TO CONDUCT WELL OPERATIONS

Gas Storage  
Gas Release Mitigation  
"Sesnon-Frew" - Modelo (Miocene-Eocene) Formation

No. **P 215-0225**

<u>Old</u>	<u>New</u>
010	010
FIELD CODE	
00	00
AREA CODE	
30	30
POOL CODE	

Ventura, California  
November 04, 2015

Thomas W. Schroeder, Agent  
Southern California Gas Company (S4700)  
9400 Oakdale Avenue  
Chatsworth, CA 91313

Your proposal to **Rework** well "**Standard Sesnon**" 25, A.P.I. No. **037-00776**, Section **28**, T. **03N**, R. **16W**, **SB B. & M., Aliso Canyon** field, **Any** area, **Sesnon-Frew** pool, **Los Angeles** County, dated **11/4/2015**, received **11/4/2015** has been examined in conjunction with records filed in this office. (Lat: **34.315083** Long: **-118.564069** Datum: **83**)

### THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
  - a. **Class III 5M** on the **7"** casing for all coiled tubing operations.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
4. No operation shall be undertaken or continued that will contaminate or otherwise damage the environment.
5. A daily report shall be furnished to the Division clearly outlining all operations that have been undertaken.
6. A Notice of Intent is required prior to fully plugging and abandoning, repairing, or suspending the well.
7. This office shall be contacted by phone prior to making any program changes and no changes are made without Division approval.
8. **THIS DIVISION SHALL BE NOTIFIED TO:**
  - a. Witness a test of the installed blowout prevention equipment.
  - b. Witness all well control and cleanout operations.
  - c. Witness any cementing operations.
  - d. Witness the location and hardness of any cement plugs placed in the well.
  - e. Witness any wireline or diagnostic tests of the wellbore.


Blanket Bond Dated: 7/6/1999  
UIC Project No. 0100006

Engineer Kris Gustafson  
Office (805) 654-4761

KG/kg

Steven Bohlen  
State Oil and Gas Supervisor

By

  
Bruce Hesson, District Deputy

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

Page 2

Well #: "Standard Sesnon" 25

API #: 037-00776

Permit : P 215-0225

Date: November 04, 2015

**NOTE:**

1. The base of the freshwater zone is at or above 800'±.
2. A Well Summary Report (Form OG 100) and Well History (Form OG 103) shall to be submitted to the Division within 60 days after the well is drilled, reworked, plugged and abandoned, or if the work is suspended. Any additional well work will require an additional notice to be submitted to this office prior to resuming well operations.



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

FOR DIVISION USE ONLY		
Bond	Forms	
	<del>OGG-21</del>	OGG-21
CAL WIMS	115V	

## NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

P215-0225

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework ☒ / redrill ☐ well "Standard Sesnon" 25, API No. 037-00776  
(Check one)

Sec. 28, T. 3N, R. 16W, S.B. B.&M., Aliso Canyon Field, Los Angeles County.

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

11-3/4", 42#, H-40 at 990'

7", 23#, 26#, 29#, J-55, N-80 at 8585' (cemented), WSO @ 8583', 8475'; Perf w/4, 1/2" jspf from 8510'-8538', 8542'-8559'

5-1/2", 20#, J-55 from 8559'-8748' with 120 Mesh from 8592'-8748' / TD = 8749'

The total depth is: 8749 feet.

The effective depth is: 8748 feet.

Present completion zone(s): Sesnon (Storage)  
(Name)

Anticipated completion zone(s): Sesnon (Storage)  
(Name)

Present zone pressure: Varies psi.

Anticipated/existing new zone pressure: Varies psi.

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

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency?  
Yes ☐ No ☒ If yes, see next page.

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

(See Attached Program) : Nipple up a 5M Class III BOPE and pressure test.

Move in and rig up a 1-1/2" coiled tubing unit. Pressure test all lines and equipment.

Pump glycol in the 2-7/8" tubing to above the master valve and if necessary attempt to displace/wash to 467' with 10.8 ppg brine while maintaining a 2700-3000 psig back pressure on the tubing. Wash down the 2-7/8" with 10.8 ppg brine while maintaining 2700-3000 psig back pressure and work coiled tubing to approximately 8496' MD. Kill/secure the well and monitor wellhead pressures. A 14.8 ppg +, Class "G" cement plug may be pumped into the 5-1/2" liner to secure the well.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth

at total depth: \_\_\_\_\_ feet and \_\_\_\_\_ feet Estimated true vertical depth: \_\_\_\_\_  
(Direction) (Direction)

Will the Field and/or Area change? Yes ☐ No ☐ If yes, specify New Field: \_\_\_\_\_

New Area: \_\_\_\_\_

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

Name of Operator

Southern California Gas Company

Address

12801 Tampa Ave.

City/State

Northridge, CA

Zip Code

91326-1045

Name of Person Filing Notice

Todd Van de Putte

Telephone Number:

661-305-5387

Signature

Todd Van de Putte

Date

11-4-2015

Individual to contact for technical questions:

Todd Van de Putte

Telephone Number:

661-305-5387

E-Mail Address:

tvandeputte@semprautilities.com

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

Rec'd 11-04-15 DOGGR D2 Ventura

## INFORMATION FOR COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970 (CEQA)

If an environmental document has been prepared by the lead agency, submit a copy of the **Notice of Determination** or **Notice of Exemption** with this notice. Please note that a CEQA determination by a local jurisdiction, if required, must be complete, or the Division may not issue a permit.

### CRITICAL WELL DEFINITION

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

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

### WELL OPERATIONS REQUIRING BONDING

1. Drilling, redrilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

## Coiled Tubing Workover Program

**DATE:** November 4, 2015  
**OPERATOR:** Southern California Gas Company  
**FIELD:** Aliso Canyon  
**WELL:** Standard Sesnon 25  
**CONTRACTOR:** Halliburton 1-1/2" Coiled Tubing Unit  
**OBJECTIVE:** Wash a bridge/blockage from the 2-7/8" completion tubing string and kill/secure the well.  
**API Number:** 037-00776  
**ELEVATION:** Take all measurements from the original KB = 6' above GL (GL@ 2927').  
**SURFACE LOCATION:** Sec 28, T3N, R16W, S.B. B&M (GPS NAD 83: 34.315083, - 118.564069)

### WELLBORE CONDITIONS (See attached wellbore schematic):

0' - 990'	11-3/4"	42#	H-40	Cemented
0' - 2398'	7"	23#	J-55	
2398' - 6308'		23#	N-80	
6308' - 8282'		26#	N-80	
8282' - 8585'		29#	N-80	Cemented / WSO @ 8475', 8583' ; Perf w/ 4, 1/2" jspf from 8510'-8538', 8542'-8559'
8559' - 8748'	5-1/2"	20#	J-55	120 Mesh from 8592' - 8748' / TD = 8749'

### Estimated Wellbore Top of Geologic Marker:

S8: 8590' MD / 8576' TVD

Estimated Surface Pressure: 2500 psig (variable)

Estimated Bottomhole Static Temperature: 150 deg F

### **Pre Rig Notes:**

Locate the rig anchors and reinstall if necessary.

There is a blockage in the 2-7/8" completion tubing string which didn't allow for the complete killing of the well.

The last wireline survey run on 10-21-14 tagged at a depth of 8720' MD.

The wellbore is slightly deviated/vertical.

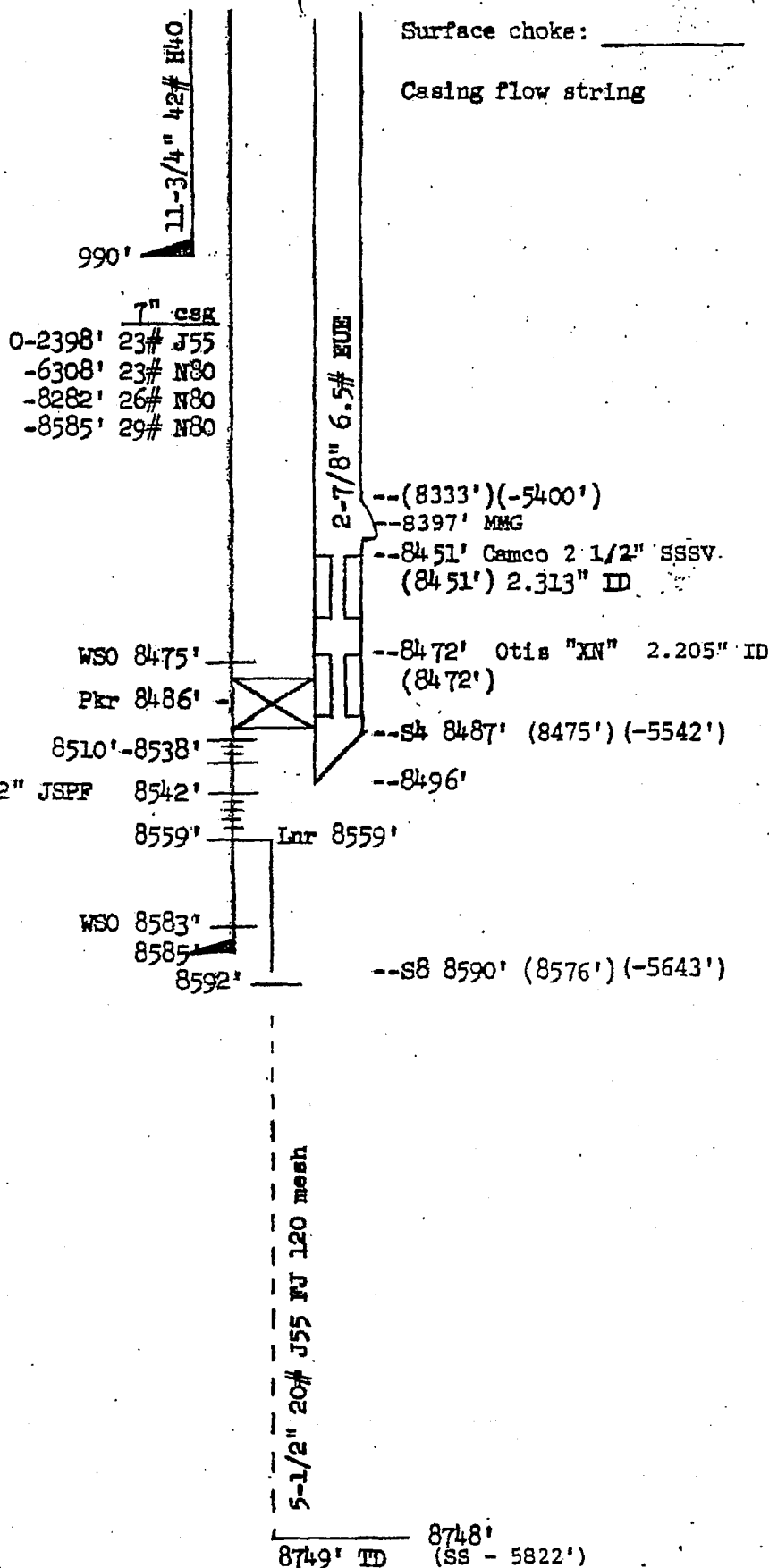
### **WELL WORK PROGRAM**

1. Move in and rig up the 1-1/2" Halliburton Offshore Coiled Tubing Unit package. Spot the pump and the closed top and open top tanks.
2. Install the coiled tubing 5M BOPE. All connections and valves must be at least 5000 psig rated.
  - a. Pressure test the 5M BOPE equipment to 4000 psig for at least 5 to 10 minutes. Test Blind Rams and the 3-1/2" Pipe Rams to 4000 psig for 15 minutes. Test all lines and connections to 4000 psig.
  - b. Perform a 300 psig low pressure test on the coiled tubing 5M BOPE (blind rams, shear rams and the pipe rams) for 5 to 10 minutes each.
  - c. All tests are to be charted and witnessed by a DOGGR representative.
3. Rig up and pressure test the 1-1/2" coiled tubing reel to 8500 psig and 300 psig with brine for approximately 10 minutes at each pressure. Verify the choke manifold lines and equipment have been pressure tested prior to beginning the coiled operation in the well.
4. Pump/displace glycol in the 2-7/8" tubing to approximately 467' MD. If unable to displace the glycol, then attempt to wash through the suspected hydrate plug in the 2-7/8" tubing.
5. Circulate the 2-7/8" tubing with the 10.8 ppg CaCl<sub>2</sub> brine at 1.0 bpm and adjust the choke to maintain approximately 2700 psig - 3000 psig back pressure on the 2-7/8" tubing string. Record the pump pressure and set the kick out on the pump to 500 psig above the recorded pump pressure.
6. Wash down the 2-7/8" tubing at approximately 10-15 ft/min while pumping the 10.8 ppg CaCl<sub>2</sub> brine to a depth of approximately 8496' MD. Maintain 2700 psig - 3000 psig back pressure with the choke and adjust the choke accordingly monitoring for possible hydrate plugging and work the coiled tubing to prevent sticking. (The pump rate will be dictated by the ability to wash through any hydrates or bridge in the 2-7/8" tubing).
7. Kill the well with the 10.8 ppg brine and secure the well and monitor the well.
8. A 14.8 ppg+, Class "G" cement plug (with additives) may be pumped/spotted through the 1-1/2" coiled tubing into the 5-1/2" liner to plug back the storage zone and secure the well.
9. Nipple down the coiled tubing 5M BOPE, the coiled tubing unit and the associated equipment and secure the well.



Elevation 2927" G.L.  
DF: 6'

Standard Sesnon 25



10/1/53 - Well spud  
2/25/54 - Well completed  
893' of 4-1/2" drill pipe + Johnston tester side tracked - old TD 4948' plugged back 3860'  
5/24/73 - 6/6/73 Cleaned out to 8748', pressure tested csg, perforated for conversion to gas storage, ran tbg with gas lift valves.  
6/25/76 - 7/9/76 Cleaned out to 8748', ran tbg with SSSV  
2/16/79-2/20/79 Replaced safety system

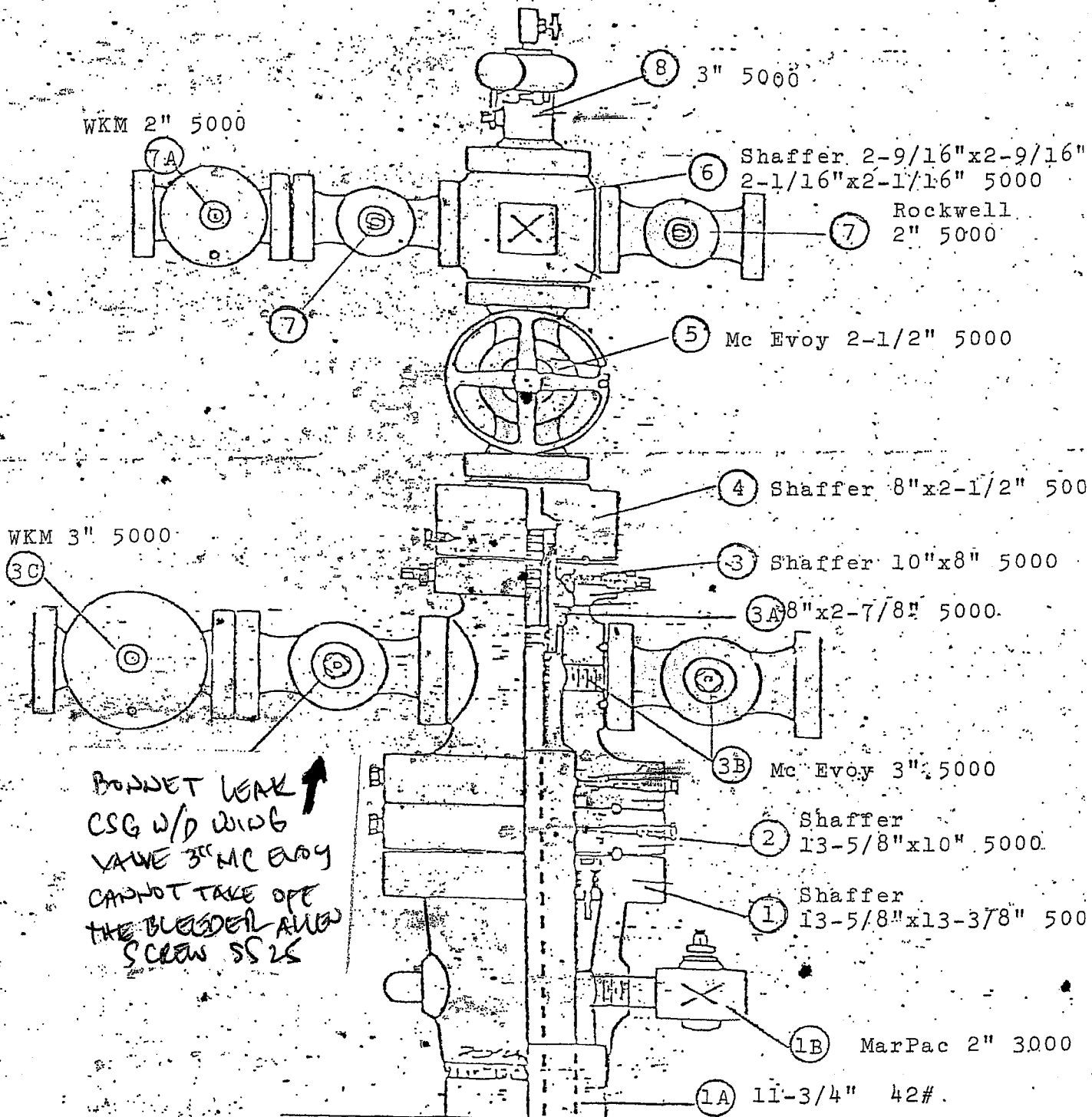
NOTE: Unable to use lower nipple - use M-lock for SSSV nipple. See wire-line tickets.

#### WELL VOLUME

	Cu.Ft.	Bbl.
Tubing	276	49
Csg/Lnr.	37	7
Annulus	1469	262



# TYPE IV



Well Name: SS 25 - Aliso Canyon

Mfgr.: Shaffer

Rec'd 11-04-15 DOGGR D2 Ventura

Date Prepared: 12-20-82

Well No. SS-25

Field Aliso

Date Prepared 5-11-81

Wellhead Mfgr Shaffer

1. Casing Head Shaffer Size 13-5/8"x11-3/4" Type KD

Slips & Pack-off 13-5/8" x 7"

A. Surface Csg. Size 11-3/4" Wt 42# Grade H-40

B. Casing Head Valve Ma pac Size 2" 3000 psi Fig.No. CSB-790-JN

2. Seal Flange Shaffer Size 13-5/8"x10" 5000 psi

A. Type Seal Lockscrew Ring BX-160 & R-54

3. Tubing Head Shaffer Size 10"x8" 5000 psi Type

Ring R-54 & Ring R-50

Outlets 3" 5000 psi Sec.Seal Lockscrew

Valve Removal Thrd 2-1/2" API

A. Tubing Hanger Shaffer Size 8"x2-1/2" Type AJO

B.P.V. Size 2-7/8" Thrd 4 L.H.

B. Tubing Head Valves Mc Evoy Size 3" 5000 psi Fig.No. 129

C. Automatic Csg. Valve WKM Size 3" 5000 ps Fig.No. 114522

4. Adapter Seal Flange Shaffer Size 8" x 2-1/2" Type AJO

A. Ring Size R-50 & R-27

5. Master Valve Mc Evoy Size 2-1/2" 5000 Fig.No. 129

6. Xmas Tree Cross Shaffer Size 2-1/16"x2-1/16" Bore Thru 2-9/16"  
Across 2-1/16"

7. Tubing Wing Valves Rockwell Size 2" 5000 psi Fig.No. 21055

A. Automatic Tbg. Valve WKM Size 2" 5000 psi Fig. No. 114522

8. Unibolt Size 3" 5000 psi Inside Thrds

9. Wt. Landed in Csg. Head 190,000 Wt. 23# Grade J-55

10. Wt. Landed on Doughnut 35,000 Wt. 2-7/8" Grade J-55

11. Tubing Head to Ground Level 1.50 Below



STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Ventura, California

November 6, 1991

R. D. Phillips, Agent  
SOUTHERN CALIFORNIA GAS COMPANY  
P.O. Drawer 3249 Mail Location 22G0  
Los Angeles, CA 90051-1249

Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 2, has been received.

The proposed change in designation, in accordance with Section 3203, Public Resources Code, is authorized as follows:

FROM

TO

"SFZU" SS-11 (037-00763)  
"SFZU" SS-13 (037-00765)  
"SFZU" SS-14 (037-00766)  
"SFZU" SS-16 (037-00768)  
"SFZU" SS-17 (037-00769)

"Standard Sesnon" 11 (037-00763)  
"Standard Sesnon" 13 (037-00765)  
"Standard Sesnon" 14 (037-00766)  
"Standard Sesnon" 16 (037-00768)  
"Standard Sesnon" 17 (037-00769)

"SFZU" SS-25 (037-00776)  
"SFZU" SS-29 (037-00741)  
"SFZU" SS-30 (037-00780)  
"SFZU" SS-31 (037-00781)  
"SFZU" SS-44 (037-00788)  
"SFZU" SS-1-0 (037-22058)

✓ "Standard Sesnon" 25 (037-00776)  
"Standard Sesnon" 29 (037-00741)  
"Standard Sesnon" 30 (037-00780)  
"Standard Sesnon" 31 (037-00781)  
"Standard Sesnon" 44 (037-00788)  
"Standard Sesnon" 1-0 (037-22058)

M. G. MEFFERD, State Oil and Gas Supervisor

By

*Patrick J. Kinneer*  
Deputy Supervisor

PATRICK J. KINNEAR



OPERATOR SOUTHERN CALIF GAS  
 LSE & NO SF24 5-25  
 MAP 250

	(1)	(2)	(3)	( )	( )	( )
INTENTION	DRILL	SUPP TO (1)	ALTR CSG TO GAS STORAGE			
NOTICE DATED	10-1-53	1-18-54	4-19-73			
P-REPORT NUMBER	153-1294	154-111	273-180			
CHECKED BY/DATE						
MAP LETTER DATED			8-14-76			
SYMBOL	②	●	⊙ CS			

REC'D NEED REC'D NEED REC'D NEED REC'D NEED REC'D NEED REC'D NEED

NOTICE	10-1-53	1-20-54	4-25-73				
HISTORY	→	6-7-54	8-5-76				
SUMMARY	→	6-7-54					
IES/ELECTRIC LOG							
DIRECTIONAL SURV							
CORE/SWS DESCRIP		6-7-54					
OTHER							
RECORDS COMPLETE		②	②				

ENGINEERING CHECK

T-REPORTS	_____
OPERATOR'S NAME	_____
WELL DESIGNATION	_____
LOC & ELEV	_____
SIGNATURE	_____
SURFACE INSPECTION	_____
FINAL LETTER OK	_____

CLERICAL CHECK

POSTED TO 121	170 MAILED	FINAL LETTER
_____	_____	MAILED
_____	_____	_____
_____	_____	RELEASED BOND
_____	_____	_____
_____	_____	_____

REMARKS: CSG DETAIL 8-11-76

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso CanyonWell No. Standard-Sesnon #25, Sec. 28, T. 3N, R. 16W, S. B. B. & M.Date July 29,, 1976

Signed

P. S. MAGRUDER, Jr.

P. O. Box 3249, Terminal Annex

Los Angeles, California 90051Title Agent

(Address)

(213) 689-3561

(Telephone Number)

(President, Secretary or Agent)

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

Date

<u>6-25-76</u>	Killed well with 350 barrels of 72#/cu. ft. IMC brine-polymer drilling fluid.
<u>6-28-76</u>	Moved in rig and equipment from WEZU #30 to Standard Sesnon #25. CPS #D-1 installed back pressure valve in doughnut.
<u>6-29-76</u>	Installed 8" 5000 psi B.O.P.E. - Tested complete shut off rams to 4000 psi for 20 minutes with water. Also tested 2 7/8" pipe rams. Hydril bag tested at 3000 psi for 20 minutes. Tested Hydril to 3000 psi with nitrogen.
<u>6-30-76</u>	Tested complete shut-off rams to 4000 psi with nitrogen for 20 minutes. Pressure tested 2 7/8" tubing rams to 4000 psi for 20 minutes. Pressure tested manifold to 4000 psi for 20 minutes.
<u>7-1-76</u>	Laid down hydrostatic packer, five gas lift valves, No-Go nipple, and Baker valve. Tripped in hole with 4 5/8" bit and 5 1/2" 17# casing scraper. Measured tubing in hole. Cleaned out 5 1/2" liner from 8559' to 8748'. Circulated hole clean.
<u>7-2-76</u>	Ran in with Baker Retrieval-"D" packer on wireline which stopped at 8333'. Ran in hole with 6" mill and 7" 29# casing scraper. Circulated hole clean.
<u>7-3-76</u>	Re-ran Baker packer which stopped at 8338'. Ran in with 6" mill and cleaned out to top of liner at 8359'. Circulated hole clean.
<u>7-4-76</u>	Rig idle.
<u>7-5-76</u> (Holiday)	Rig idle.
<u>7-6-76</u>	Set Baker Retrieval-"D" packer on wireline at 8480'.



History of Well - Standard Sesnon #25  
Aliso Canyon

PAGE 2.

7-7-76

Ran in with 2 7/8" tubing. Removed collars, cleaned pins applying Baker seal and hydrotested tubing to 5000 psi for one minute test.

7-8-76

Landed tubing on packer with 10,000# - Pulled up 15,000# over weight of tubing to check latch. Installed back pressure valve in doughnut. Removed B.O.P.E. and installed Christmas tree. Pressure tested to 5,000 psi - O.K. Circulated drilling fluid out of well with waste lease salt water.

7-9-76

Set plug in No-Go nipple and pressure tested seals and packer to 2500 psi for 20 minutes - O.K. Released rig at 2:00 p.m.

JUN 17 1976

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

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

SANTA PAULA, CALIFORNIA

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
B.B.	✓	✓

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3. Public Resources Code, notice is hereby given that it is our intention to rework well No. STANDARD-SESNON #25, API No. \_\_\_\_\_, Sec. 28, T. 3N, R. 16W, S. B. B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 8749'
2. Complete casing record, including plugs and perforations:

11 3/4" cemented 990'

7" cemented 8585', seg 8583', WSO 8475'  
perforated 8510'-8559'

189' 5 1/2" landed 8748' slotted 8592'-8748'

3. Present producing zone name SESNON Zone in which well is to be recompleted -
4. Present zone pressure 3000 New zone pressure -
5. Last produced Gas Storage Well  
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)  
or
6. Last injected \_\_\_\_\_  
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

1. Move in rig and kill well. Install B.O.P.E. and pressure test.
2. Pull tubing. Clean out to 8748'.
3. Run packer, tubing and safety valve.

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

Address P.O. Box 3249, Terminal Annex  
(Street)  
Los Angeles, California 90051  
(City) (State) (Zip)  
Telephone Number (213) 689-3561

SOUTHERN CALIFORNIA GAS COMPANY  
(Name of Operator)  
By P. S. Magruder, Jr. 6/16/76  
(Name) (Date)  
Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

## DIVISION OF OIL AND GAS

### History of Oil or Gas Well

OPERATOR Pacific Lighting Service Company FIELD Aliso Canyon  
 Well No. SFZU SS-25, Sec. 28, T. 3N, R. 16W, S.B. B. & M.  
 Date September 5, 19 73 Signed [Signature]  
P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054 (213) 689-3561 Title Agent  
(Address) (Telephone Number) (President, Secretary or Agent)

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

Date  
1973

- 5-24 Before moving in California Production Service rig, pumped 50 bbls. of oil heated to 250° into tubing to dewax the well. Rigged up and using McCullough, shot four 3/8" holes in tubing at 8485' with deflecting bullets. Pumped in one 60 bbl. batch of high gel polymer drilling fluid and obtained circulation with 400 bbls. of drilling fluid.
- 5-25 Circulated out gas and oil from well and bled off trap pressure. Removed X-mas tree and installed B.O.P., including hydril, complete shut-off and tubing rams. Pulled tubing and packer. Ran in hole with 4-5/8" bit and casing scraper.
- 5-26 Ran 4-5/8" bit and casing scraper and cleaned out bridges 8723'-8748', circulated hole clean recovering carbonate material from drilling fluid. Pulled out of hole and ran Dresser Atlas cement bond log and recorded 8737'-6950'. Ran neutron life-time log and recorded 8742'-8000'.
- 5-27 Idle.
- 5-28 Ran Dresser Atlas acoustilog and recorded 8560'-8000'. Ran densilog and recorded 8560'-8000'. Ran 6" bit and casing scraper and cleaned out to 8559'.
- 5-29 Ran Baker retrievable retainer and using Halliburton cementing truck pressure tested 7" casing as follows:
- |               |                         |
|---------------|-------------------------|
| 8525'-surface | 1500 psi for 23 minutes |
| 6000'-surface | 2000 psi for 25 minutes |
| 4500'-surface | 2400 psi for 25 minutes |
| 3000'-surface | 2800 psi for 27 minutes |
| 2000'-surface | 3100 psi for 25 minutes |
| 1000'-surface | 3400 psi for 33 minutes |

Using Dresser Atlas 4" Golden Jet gun, shot four 1/2" jet holes from 8542'-8538'. Ran Baker bridge plug and set at 8550'.

1973

- 5-30 Ran Halliburton tester and set packer at 8471' with tail to 8487'. Opened tool at 11:45 A.M. with strong blow and gas to surface in 3 minutes, shut in and turned to trap at 11:53 A.M. Flowed gas at approximate rate of 4 MM cu. ft. per day for 33 minutes. Shut in for 65 minutes to take initial shut in pressure. Re-opened tool at 1:30 P.M. and flowed for 60 minutes through 1/4" surface choke and 5/8" choke in tester at rate of 1.7 MM cu. ft. per day with surface pressure of 1150 psi. Flowed from 2:30 P.M. until 4:00 P.M. through 1/2" surface choke at rate of 4.2 MM cu. ft. per day with surface pressure of 750 psi. Flowed 4:00 P.M. to 7:00 P.M. through 1" surface choke at rate of 4.5 MM cu. ft. per day with surface pressure of 575 psi. Shut in tester at 7:00 P.M. for final static pressure.
- 5-31 Bled pressure down to 225 psi (trap back pressure). Pulled tester at 8:45 A.M. for final shut in of 11 hours and 45 minutes. Opened backscuttle valve and circulated drilling fluid to pump gas to trap. Pulled out of hole and recovered drilling fluid in bottom 120' of 2-7/8" tubing below backscuttle valve. Recovered no sand in tubing or in tester.

## PRESSURE RECORDER DATA:

Hydrostatic	3722 psi
Initial Flow	1338 psi
Initial Shut-in	1461 psi
Initial Flow 1/4"	1442 psi
Flow 1/2" Choke	1386 psi
Flow 1" Choke	1373 psi
Final Shut-in	1459 psi

Ran in with latching tool and found no sand on Baker bridge plug at 8550'. Backscuttled and recovered no sand. Pulled bridge plug to 4975' and reset same.

- 6-1 Removed casing spool. Removed rings and rubber packing from casing head. Filled 7" x 11-3/4" annulus with 50 bbls. of mud. Using jack hammers, dug concrete out of cellar for 20". Rigged up casing jack and spear and unlanded 7" casing with 196,000 lb. pull. Removed slips. Welder cut off conductor and 11-3/4" surface casing. Leveled and tack welded new casing head on 11-3/4" casing.
- 6-2 Completed welding casing head and checked weld with Gamma ray. Rigged up casing jacks and spear. Pulled 196,000 lbs. on 7" casing and landed on slips in casing head and installed packing. Cut off 4-1/2" of 7" casing and rebeveled top of casing. Tested casing head packing and secondary flange pack-off, both to 2800 psi for 30 minutes. Reinstalled B.O.P. Started in well with tool to retrieve bridge plug.
- 6-3 Idle.
- 6-4 Recovered bridge plug from 4975' and found no sand on bridge plug. Using Dresser Atlas 4" Golden Jet gun, shot four 1/2" holes per foot 8559'-8542' and 8538'-8510'. Ran wire brush perforation cleaner and found 13' of fill circulated and worked brush from 8736'-8592'. Pulled out of well.

1973

- 6-5 Ran 2-7/8" tubing, including packer, nipple, sliding sleeve and five gas lift mandrels (details attached). Hydrottested tubing to 5000 psi and found no leaks. Landed tubing on doughnut with bottom of tubing at 8492'. Using Hydrottest, pumped down tubing but obtained circulation. Pulled and reran bottom gas lift valve with piano wire unit. Using rig pump, set packer but apparently could not shear ball seat.
- 6-6 Pumped water down tubing with hot oil truck and found seat had been sheared with rig pump. Using piano wire unit, shifted sleeve at 8390' to open position. Removed B.O.P., installed new X-mas tree and tested doughnut and tree to 3500 psi, each for 20 minutes. Circulated drilling fluid out of hole with lease water. Displaced water to top gas lift valve with nitrogen. Blew well down to zero pressure and shut-in. Moved out rig.

TUBING DETAILS

Derrick floor to top of tubing	0'-8.35'
160 jts. 2-7/8" 8rd., EUE, J-55	8.35'-4983'
KBMG mandrel w/BK valve 1050 psi	4983'-4995'
30 jts. 2-7/8" tubing	4995'-5914'
KBMG mandrel w/BK valve 1025 psi	5914'-5925'
28 jts. 2-7/8" tubing	5925'-6784'
KBMG mandrel w/BK valve 1000 psi	6784'-6795'
26 jts. 2-7/8" tubing	6795'-7589'
KBMG mandrel w/BK valve 975 psi	7589'-7600'
23 jts. 2-7/8" tubing	7600'-8314'
KBMG mandrel w/BK valve 950 psi	8314'-8325'
2 jts. 2-7/8" tubing	8325'-8387'
Baker model "L" sliding sleeve (open)	8387'-8390'
1 jt. 2-7/8" tubing	8390'-8421'
Baker "F" nipple	8421'-8422'
1 jt. 2-7/8" tubing	8422'-8453'
Baker FH hydrostatic packer	8453'-8460'
1 jt. 2-7/8" tubing	8460'-8491'
Baker ball seat & chamfered collar	8491'-8492'

## DIVISION OF OIL AND GAS

## REPORT ON PROPOSED OPERATIONS No. P 273-180

Mr. P. S. Magruder, Jr., Agent  
Pacific Lighting Service Co.  
P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054

Santa Paula Calif.  
April 25, 1973

DEAR SIR:

(037-00776)

Your proposal to alter casing Well No. "SFZU" SS-25  
Section 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County,  
dated 4/19/73, received 4/25/73, has been examined in conjunction with records filed in this office.

Note: Four 1/2" holes @ 8583', company WSO.

THE PROPOSAL IS APPROVED PROVIDED THAT ADEQUATE BLOWOUT PREVENTION EQUIPMENT SHALL  
BE INSTALLED AND MAINTAINED IN OPERATING CONDITION AT ALL TIMES.

Blanket Bond

ALL:r

cc: Operator

JOHN F. MATTHEWS, JR., State Oil and Gas Supervisor

By LOCC Ritzius, Deputy

## DIVISION OF OIL AND GAS

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

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

SANTA PAULA, CALIFORNIA

Los Angeles Calif. April 19, 1973

## DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. SFZU SS 25

(Cross out unnecessary words)

, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 8749'

2. Complete casing record, including plugs:

11-3/4" c. 990'

7" c. 8585'

5-1/2" 8559' to 8748'

4 holes 8475' WSO

Perforations 120m slots 8592' to 8748'

3. Last produced. \_\_\_\_\_ (Date) \_\_\_\_\_ (Oil, B/D) \_\_\_\_\_ (Water, B/D) \_\_\_\_\_ (Gas, Mcf/D)

The proposed work is as follows:

Jet perforate 2 HPF and/or 4 HPF as required from 8487' to 8748'  
to convert well to a gas storage well.

MAP	MAP BLOCK	C.A.S. NO.	REMARKS	FORMS	
				11A	11B
			Blanket	✓	✓

P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054

(Address)

(213) 689-3561

(Telephone No.)

Pacific Lighting Service Company

(Name of Operator)

By

*J. S. Maguedes*

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

830 North La Brea Avenue

Inglewood, California

September 23, 1968

Mr. Mr. C. G. Nelson, Agent  
Getty Oil Co., Operator  
P. O. Box 811  
Agent for Ventura, California 93001

DEAR SIR:

Your request dated letter dated August 26, 1968, relative to change in designation of well(s) in Sec. 28, 29, T. 3 N., R. 16 W., S. B. B. & M., Aliso Canyon field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

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

the proposed change in designation is hereby authorized as follows:

See attached list.

ag

cc: F. E. Kasline  
Production Dept.  
Conservation Committee

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

By

*Wm. C. Bailey*

Deputy Supervisor



Proposed Changes in Designation

Sec. 28:

<u>Old Designation</u>		<u>New Designation</u>
"Standard-Sesnon 1"	1	"SFZU" SS-1 (037-00754)
"	2	" SS-2 (037-00755)
"	3	" SS-3 (037-00756)
"	5	" SS-5 (037-00758)
"	6	" SS-6 (037-00759)
"	7	" SS-7 (037-00760)
"	8	" SS-8 (037-00761)
"	9	" SS-9 (037-00762)
"	11	" SS-11 (037-00763)
"	13	" SS-13 (037-00765)
"	14	" SS-14 (037-00766)
"	16	" SS-16 (037-00768)
"	17	" SS-17 (037-00769)
"	24	" SS-24 (037-00770)
"	25	" SS-25 (037-00776)
"	29	" SS-29 (037-00041)
"	30	" SS-30 (037-00780)
"	31	" SS-31 (037-00781)
"	44	" SS-44 (037-00788)

Sec. 29:

<u>Old Designation</u>		<u>New Designation</u>
"Standard-Sesnon 1"	4	"SFZU" SS-4 (037-00757)
"	10	" SS-10 (037-00040)
"	12	" SS-12 (037-00764)

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## WELL SUMMARY REPORT

DIVISION OF OIL AND GAS  
RECEIVED

JUN 7 1954

LOS ANGELES, CALIFORNIA

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON  
Well No. Standard-Gesnon 1-#25 Sec. 28, T. 3 N, R. 16 W, S.B. B. & M.  
Location 820.00' South & 5360.00' West Elevation above sea level 2927.02 feet.  
from Station #84 All depth measurements taken from top of derrick floor,  
which is 6.35 feet above ground.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date May 28, 1954Signed J. E. WeaverJ. R. Boyer  
(Engineer or Geologist)G. O. Suman  
(Superintendent)Title Agent  
(President, Secretary or Agent)Commenced drilling October 1, 1953 Completed drilling February 14, 1954 Drilling tools Cable RotaryTotal depth 4948' Plugged depth 3860'; R.D. 8749' GEOLOGICAL MARKERS DEPTHJunk 893' - 4-1/2" drill pipe and Johnston  
tester 3967' - 4860' (sidetracked)Commenced producing February 25, 1954 (date) Flowing/gas lift/pumping  
(cross out unnecessary words)3/20/54 On gas lift  
Initial production  
4/18/54 Production after 30 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
232	20.3	2.6%	89	100#	700#
101	20.8	2.0%	35	250#	900#

## CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
11-3/4"	990'	0'	42#	New	Seamless	H-40	16"	600 Dlamix +	
7"	8585'	0'	23, 26, 29#	New	Seamless	J-55, N-80	10-5/8"	235 Neat Cmt	
5-1/2"	8748'	8559'	20#	New	Seamless	J-55, F.J.	6"		

## PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
5-1/2"	8592 ft.	8748 ft.	120 Mesh x 2" slots	12	6"	6° Undercut by Pacific
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths 851'-4909'; 3860'-8748' (Attach Copy of Log)

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYONWell No. Standard-Sasnon 1-#25, Sec. 28, T. 3 N, R. 16 W, S.B. B. & M.Signed J E Weaver, Jr.Date May 28, 1954 Title Agent  
(President, Secretary or Agent)

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

Date

LOCATION: 820.00' South and 5360.00' West from Station #84ELEVATION: 2927.02' Mat

2933.37' Derrick Floor

1953

9/8-9/28

9/29-9/30

10/1

10/2-10/3

10/4-10/14

10/15-10/18

10/19

10/20-10/22

10/23

10/24

10/25-10/26

10/27-11/4

11/5

11/6

11/7

11/8

11/9

Grading, digging rat hole and cellar, poured cellar, moved in equipment.  
Rigged up rotary.

Spudded 10-5/8" hole at 1:00 PM and drilled to 169'. Lost circulation for 5 hours.

Drilled 10-5/8" hole from 169' to 741'. Lost circulation for 3-3/4 hours.

Drilled 10-5/8" hole from 741' to 2567'. Ran Schlumberger electric log at 2567'. Opened 10-5/8" hole to 16" from surface to 212'.

Opened 10-5/8" hole to 16" from 212' to 990'. Ran and cemented 11-3/4" 42# Youngstown T & C casing at 990' with 600 sacks 1:1 Diamix followed by 100 sacks Neat cement. Lost circulation with 11 1/2 cu. ft. of cement slurry to displace. Pressure built up from 200-500# when plugs bumped. Time 9:45 PM. B.J. Service. Cemented around outside of casing with 75 sacks of Neat cement.

Cemented around outside of casing with additional 60 sacks Neat cement. Cleaned out and found cement at 984'.

Cleaned out to 2567'. Drilled 10-5/8" hole from 2567' to 2925'. Twisted off drill collar in hole. Fishing at 2925'.

Washing over drill collar at 2908'.

Washed over and recovered drill collar.

Drilled 10-5/8" hole from 2925' to 3073'. Twisted off 28 joints of drill pipe and 2 drill collars at 3073'. Recovered same with McCullough socket.

Drilled 10-5/8" hole from 3073' to 4362'. Changed to Carbonox mud at 4350'.

Drilled 10-5/8" hole from 4362' to 4530'.

Drilled 8-1/2" hole from 4530' to 4630'. Ran Schlumberger electric log at 4630'. Opened 8-1/2" hole to 10-5/8" from 4530' to 4552'.

Opened 8-1/2" hole to 10-5/8" from 4552' to 4630'. Reduced hole to 8-1/2" and drilled from 4630' to 4685'.

Drilled 8-1/2" hole from 4685' to 4765'.

Drilled 8-1/2" hole from 4765' to 4781'. Ran Schlumberger electric log at 4781'. Ran Johnston formation tester on 4-1/2" drill pipe and set packers at 4652' and 4661' with perforated tailpipe to 4781'. Used 500' water cushion. Opened tester at 4:05 PM. Had medium, steady blow for 8 minutes when gas reached surface.

Increased to strong, steady blow for next 5 minutes when cushion reached surface. Well unloaded cushion in 12 minutes. After tester was open a total of 20 minutes

1953

- 11/9 (cont.) well was producing gas at maximum rate of 1,591,000 CF/D. After 40 minutes, rate decreased to approximately 360,000 CF/D. After 55 minutes, well died. After 60 minutes, had medium to light heading blow for balance of 75 minute test. Recovered 1620' net rise of gas cut drilling mud. Pressure charts showed 1100# pressure.
- 11/10 Opened 8-1/2" hole to 10-5/8" to 4761', then drilled 8-1/2" hole from 4781' to 4796'.
- 11/11-13 Drilled 8-1/2" hole from 4796' to 4910'. Ran Schlumberger electric log to 4910'.
- 11/14 Ran Johnston formation tester on 4-1/2" drill pipe and set sidewall packers at 4787' and 4795' with perforated tailpipe to 4910'. Opened tester at 7:35 AM. Had fair, diminishing to light blow throughout one hour test. Recovered 2590' net rise; top 755' drilling mud, remainder salt water with average salinity of 373 g/g. Bottom hole pressure 1250#. Reran Schlumberger electric log to 4910'. Opened 8-1/2" hole to 10-5/8" from 4761' to 4788'.
- 11/15-16 Drilled 8-1/2" hole from 4910' to 4948'. Ran Lane-Wells Neutron Ray, Gamma Ray and sidewall sampler.
- 11/17 Hung 4-1/2" drill pipe and 97' of 2-7/8" tubing equipped with scratchers at 4948'. Pumped in 60 sacks Colton Slow cement preceded by 25 cu. ft. of water. Reciprocated and rotated pipe while displacing water and cement. Equalized cement at approximately 4830'. Time 11:30 AM. B.J. Service. Cleaned out to bottom and found no cement.
- 11/18 Hung 4-1/2" drill pipe and 97' of 2-7/8" tubing equipped with scratchers at 4948' and pumped in 60 sacks Colton Slow cement. Reciprocated and rotated pipe while displacing cement. Time 10:30 AM. B.J. Service. Found top of cement at 4830' and cleaned out to 4860'. Mud weight 74#, 33 viscosity, 3.3 c.c. water loss.
- 11/19 Ran Johnston tester on 4-1/2" drill pipe and set sidewall packers at 4715' and 4725' with perforated tailpipe to 4860'. Used 500' water cushion. Opened tester at 11:20 AM. Had light, steady blow for 5 minutes, decreasing to faint, intermittent blow throughout balance of 1 hour test. Could not pull tester loose. Jarred for 3 hours without results. Backed off left hand thread below packers and pipe rotated easily. Attempted to pull tester again but would not come loose. Rotated again and twisted off drill pipe, leaving a single, 7 doubles, drill collar and tools in hole (approximately 893' total fish). Backscuttled and recovered fresh water cushion. Ran in with fishing tool, jarred for 3 hours without results.
- 11/20 Jarred on fish for 4 hours with no results. Pulled out and laid down fishing tools. McAteer Drilling Contractor released at 10:00 AM. Moving out.
- 11/21-23 Standing idle.
- 11/24 Finished moving out rotary.
- 11/25-12/28 Idle.
- 12/29-31 Moved in and rigged up rotary.

1954

- 1/1 Replaced Series 600 casing flange with Series 900. Making up drill pipe.
- 1/2 Cleaned out to top of fish at 3967'. Hung 4-1/2" drill pipe at 3967' and pumped in 150 sacks Colton Slow cement, 20% sand. Time 12:00 Midnight. B.J. Service.
- 1/3 Found top of cement at 3770'. Cleaned out to solid cement at 3830'. Standing cemented. Mud weight 74#, 68 viscosity, 4.1 c.c. water loss.
- 1/4 Drilled out solid cement from 3830' to 3860'. Running Eastman "shoe horn type" whipstock. Mud weight 74#, 58 viscosity, 4.2 c.c. water loss.
- 1/5 Drilled off Eastman "shoe horn type" whipstock from 3860' to 3878' with 7-7/8" bit. Opened hole to 10-5/8" and drilled ahead to 3929'. Deviation at 3900' equals 3.5 degrees. Mud weight 73#, 65 viscosity, 4.2 c.c. water loss.



1954

- 1/6 Drilled 10-5/8" hole from 3929' to 4139'. Mud weight 72#, 45 viscosity, 5.1 c.c. water loss.
- 1/7 Redrilled 10-5/8" hole from 4139' to 4333'. Mud weight 73#, 45 viscosity, 6.0 c.c. water loss.
- 1/8 Redrilled 10-5/8" hole from 4333' to 4594'. Mud weight 75#, 55 viscosity, 5.5 c.c. water loss.
- 1/9 Redrilled 10-5/8" hole from 4594' to 4661', then reduced size of hole to 8-1/2" and drilled to 4770'.
- 1/10-1/11 Redrilled 8-1/2" hole from 4770' to 4806'. Repaired drilling equipment.
- 1/12 Redrilled 8-1/2" hole from 4806' to 4840'. Ran Schlumberger electric log at 4840'. Mud weight 75#, 52 viscosity, 3.3 c.c. water loss.
- 1/13 Opened 8-1/2" hole to 10-5/8" from 4661' to 4680'. Ran Johnston tester on 4-1/2" drill pipe and set packers at 4806' and 4716' with perforated tailpipe to 4840'. Used 500' water cushion. Opened 3/8" bean at 6:45 AM. Had medium blow for 3 minutes, strong, steady blow for 25 minutes, decreasing to dead in 45 minutes. Pulled packers loose after 50 minute test. Gas to surface in 3 minutes. Maximum rate 247 MCF after being open 15 minutes. Recovered net rise of 360' gas-cut drilling fluid. Pressure bomb charts confirmed details of test. Opened 8-1/2" hole to 10-5/8" from 4680' to 4840'. Mud weight 75#, 48 viscosity, 4.4 c.c. water loss.
- 1/14 Redrilled 10-5/8" hole from 4840' to 4948'. Deepened from 4948' to 4967' with 10-5/8" bit. Mud weight 76#, 50 viscosity, 3.0 c.c. water loss.
- 1/15 Drilled 10-5/8" hole from 4967' to 5053'. Mud weight 76#, 45 viscosity, 3.2 c.c. water loss.
- 1/16 Drilled 10-5/8" hole from 5053' to 5160'. Mud weight 78#, 45 viscosity, 3.6 c.c. water loss.
- 1/17 Drilled 10-5/8" hole from 5160' to 5450'. Mud weight 77#, 48 viscosity, 3.1 c.c. water loss.
- 1/18 Reduced size of hole to 8-1/2" and drilled from 5450' to 5630'. Ran Schlumberger electric log at 5630'. Opened 8-1/2" hole to 10-5/8" from 5450' to 5520'. Mud weight 78#, 50 viscosity, 3.0 c.c. water loss.
- 1/19 Drilled 8-1/2" hole from 5630' to 5645'. Ran Johnston formation tester on 4-1/2" drill pipe and set sidewall packers at 5522' and 5527' with bottom of perforated tailpipe to 5645'. Used 500' water cushion. Opened 3/8" bean at 6:50 PM. Had moderate, steady blow for duration of 1 hour test with gas to surface in 10 minutes. Maximum gas rate after 22 minutes, 38 MCF per day. Recovered 570' net rise gassy emulsified heavy oil. No free water. Charts checked details of test. Final maximum pressure 620#. Cleaned out rat hole to 5645' with 8-1/2" bit. Mud weight 78#, 53 viscosity, 3.2 c.c. water loss.
- 1/20 Drilled 8-1/2" hole from 5645' to 5790'. Ran Schlumberger electric log at 5770'. Mud weight 78#, 50 viscosity, 3.5 c.c. water loss.
- 1/21 Drilled 8-1/2" hole from 5790' to 5945'. Ran Schlumberger electric log at 5945' and took sidewall samples at 5537', 5567', 5627', 5646', 5668', 5722', 5725', 5734', 5757', 5804', 5819', 5858', 5878' and 5938'. Opened hole to 10-5/8" from 5522' to 5945'. Mud weight 77#, 53 viscosity, 3.6 c.c. water loss.
- 1/22 Cored 8-1/2" hole from 5945' to 6005' with Mercury conventional core barrel. Opened hole to 10-5/8" from 5945' to 6005'. Mud weight 77#, 44 viscosity, 6.6 c.c. water loss.
- 1/23 Drilled 10-5/8" hole from 6005' to 6372'. Mud weight 78#, 48 viscosity, 3.6 c.c. water loss.
- 1/24 Drilled 10-5/8" hole from 6372' to 6706'. Mud weight 77#, 45 viscosity, 5.4 c.c. water loss.

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- 1/25 Drilled 10-5/8" hole from 6706' to 7111'. Mud weight 78#, 45 viscosity, 6.3 c.c. water loss.
- 1/26 Drilled 10-5/8" hole from 7111' to 7227'. Ran Schlumberger Magnetic survey at 7227'.  
Mud weight 78#, 48 viscosity, 6.8 c.c. water loss.
- 1/27 Drilled 10-5/8" hole from 7227' to 7526'. Mud weight 78#, 50 viscosity, 7.2 c.c. water loss.
- 1/28 Drilled 10-5/8" hole from 7526' to 7594'. Stuck drill pipe 138' off bottom (7594'). Spotted 80 barrels of oil and came loose. Mud weight 78#, 55 viscosity, 8.0 c.c. water loss.
- 1/29 Drilled 10-5/8" hole from 7594' to 7780'. Attempted to run shoe horn type bit at 7778', facing S 25 Deg. E, but failed to function. Mud weight 76#, 45 viscosity, 6.1 c.c. water loss.
- 1/30 Drilled 10-5/8" hole from 7780' to 7897'. Mud weight 78#, 50 viscosity, 5.8 c.c. water loss.
- 1/31 Drilled 10-5/8" hole from 7897' to 7917'. Set conventional whipstock at 7917', facing South 55 Deg. East. Drilled off whipstock with 7-1/2" bit to 7928', then opened hole to 10-5/8" and drilled ahead to 7936'. Mud weight 78#, 45 viscosity, 6.0 c.c. water loss.
- 2/1 Drilled 10-5/8" hole from 7936' to 8030'. Mud weight 78#, 58 viscosity, 6.6 c.c. water loss.
- 2/2 Drilled 10-5/8" hole from 8030' to 8093'. Mud weight 74#, 46 viscosity, 5.6 c.c. water loss.
- 2/3 Reamed off key seat from approximately 3800' to 3900', then reamed remainder of hole. Mud weight 76#, 58 viscosity, 5.2 c.c. water loss.
- 2/4 Drilled 10-5/8" hole from 8093' to 8177'. Mud weight 79#, 48 viscosity, 4.8 c.c. water loss.
- 2/5 Drilled 10-5/8" hole from 8177' to 8240'. Mud weight 79#, 45 viscosity, 4.3 c.c. water loss.
- 2/6 Drilled 10-5/8" hole from 8240' to 8373'. Mud weight 79#, 47 viscosity, 4.2 c.c. water loss.
- 2/7 Drilled 10-5/8" hole from 8373' to 8544'. Mud weight 80#, 52 viscosity, 3.8 c.c. water loss.
- 2/8 Drilled 10-5/8" hole from 8544' to 8580'. Ran Schlumberger electric log at 8550'. Drilled ahead to 8580' and ran Schlumberger electric log and Neutron - Self-potential log. Circulated with double three point reamer. Mud weight 80#, 50 viscosity, 4.0 c.c. water loss.
- 2/9 Drilled 10-5/8" hole from 8580' to 8585'. Mud weight 78#, 44 viscosity, 3.3 c.c. water loss. Running 7" casing.
- 2/10 Cemented 7" Youngstown, Speedtite casing at 8585' with 600 sacks Colton Hi-temperature cement. Detail of casing is as follows: Surface to 2398' - 23#, J-55; 2398' to 6308' - 23#, N-80; 6308' to 8282' - 26#, N-80; 8282' to 8585' - 29#, N-80. Pressure rose from 1000-1500# when plugs bumped. Time 3:10 AM. B.J. Service (two pump trucks). Used two centralizers and three scratchers on each of bottom three joints. Tested casing 1200# O.K. for 15 minutes. Making up 3-1/2" drill pipe.
- 2/11 Found top of hard cement at 8537'. Drilled out cement to 8584'. Ran Schlumberger Neutron and collar locator to 8584'. Ran Schlumberger jet gun and shot four holes at 8583'.
- 2/12 Ran Johnston tester on 3-1/2" drill pipe and set packer at 8522' with perforated tailpipe to 8539' to test jet holes at 8583'. Used 1000' water cushion. Opened tester at 11:05 AM. Had light, steady blow for 5 minutes, then dead for 1 hour test. Recovered 30' net rise of water drilling fluid. Charts checked details



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- 2/12 (cont) of test. Obtained segregation at 8583'. Ran Schlumberger jet perforator and shot four holes at 8475'. Ran Johnston tester on 3-1/2" drill pipe and set packer at 8434' with perforated tailpipe to 8451'. Used 1000' water cushion. Opened tester at 9:40 PM. Had light blow for 1 minute, then dead for balance of 1 hour test. Recovered 30' net rise drilling fluid. Charts confirmed results of test. Water shutoff on holes at 8475' witnessed and approved by Division of Oil and Gas. Mud weight 76#, 46 viscosity, 2.4 c.c. water loss.
- 2/13 Cleaned out from 8581' to 8585'. Drilled 6" hole from 8585' to 8634'. Mud weight 80#, 59 viscosity, 4.8 c.c. water loss.
- 2/14 Ran Schlumberger electric log at 8749'. Reamed 6" hole from 8585' to 8749'. Mud weight 79#, 47 viscosity, 4.2 c.c. water loss.
- 2/15 Landed 189' of 5-1/2" 20# J-55 Youngstown flush joint liner at 8748'. Top of hanger 8559'. Perforations 8592' - 8748'. Details of perforations: 120 Mesh, 12 rows, 2" slots, 6" centers, 6° undercut, by Pacific. Laid down drill pipe and made up tubing.
- 2/16 Installed Christmas tree and landed 2-7/8" tubing at 8540'. Displaced mud with oil.
- 2/17 Swabbed 12 hours. Fluid level 3200'. Lost swab. Fishing.
- 2/18 Circulated out swab with oil. Resumed swabbing. Fluid level 1500'. Swabbed out approximately 125 barrels.
- 2/19 Swabbed 150 barrels gross fluid, all circulating oil. Fluid level 2500'.
- 2/20 In 12 hours swabbed 107 barrels gross fluid, all formation oil. 9 1/2 barrels net oil, 12.0% cut, 18.3 gravity. Swabbed at 6000'. Fluid level 3500'. Released Pike Drilling Contractor at 6:00 PM.
- 2/21-22 Contractor moving out.
- 2/23 Shut in. 160# tubing pressure; 325# casing pressure.
- 2/24 Shut in. 200# tubing pressure; 300# casing pressure.
- 2/25 Well began flowing at 1:30 PM and in 8-1/2 hours produced 105 barrels gross fluid, 99 barrels net oil, cut 6.0% water, 2 1/2" bean, 100# tubing pressure, 1600# casing pressure. Well died at 10:00 PM. 6:00 AM tubing pressure 100#; casing pressure 1600#.
- 2/26 In 3 hours well flowed by heads 39 barrels gross fluid, no cut or gravity, 6 1/2" bean, 300# tubing pressure, 1475# casing pressure.
- 2/27 Well dead. 100# tubing pressure, 1400# casing pressure.
- 2/28 Well dead. Bleeding down casing pressure.
- 3/1 Rigged up California Production Service hoist and in 16 hours swabbed 82 barrels gross fluid, 78 barrels net oil, 4.1% cut, 19.7 gravity, fluid level remaining from 2500-3000'.
- 3/2 In 16 hours swabbed 129 barrels gross fluid, 128 barrels net oil, 1.0% cut, 20.6 gravity, 0# tubing pressure, 0# casing pressure. Fluid level 4000'. Released crew 12:00 Midnight.
- 3/3 Shut in. 350# tubing pressure; 350# casing pressure.
- 3/4 Shut in. 450# tubing pressure; 300# casing pressure.
- 3/5 Shut in. 560# tubing pressure; 500# casing pressure.
- 3/6 Shut in. 560# tubing pressure; 500# casing pressure.
- 3/7 Shut in. 500# tubing pressure; 560# casing pressure.
- 3/8 In 17 hours well flowed on gas lift 101 barrels gross fluid, 101 barrels approximate net oil, 0.1% cut, 21.2 gravity, 16/64" bean, 100# tubing pressure, 1350# casing pressure, 0 MCF gas.

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3/9 In 8 hours well flowed on gas lift 29 barrels gross fluid, 29 barrels approximate net oil, 0.1% cut, 21.2 gravity, 16/64" bean, 680# tubing pressure, 1250# casing pressure, 0 MCF gas.

3/10 Shut in. 1300# tubing pressure; 1300# casing pressure.

3/11 Shut in. Let off tubing pressure but well would not flow. 100# tubing pressure; 1400# casing pressure.

3/12 In 8 hours well flowed 76 barrels gross fluid, approximately 74 barrels net oil, 3.0% cut, 21.0 gravity, 16/64" bean, 200# tubing pressure, 1400# casing pressure. Bleeding off pressures. Preparing to install gas flow valves.

3/13 Bleeding off pressure. 200# tubing pressure; 1400# casing pressure.

3/14 Bleeding off pressure. 150# tubing pressure; 700# casing pressure.

3/15 Bleeding off pressure. 200# tubing pressure; 0# casing pressure.

3/16 Bled off pressure and filled hole with dead oil. Will move in mast if weather permits.

3/17 California Production Service moving in with mast.

3/18 Pulled tubing. Ran 7" Guiberson KV-30 wall packer and set at 8525' with 14,000#; included are five Guiberson gas lift flow valves as follows: 1000# valve - 1965'; 975# valve - 3835'; 950# valve - 5504'; 925# valve - 6973'; 900# valve - 8271' (no ball and check on this valve). Above depths are from tubing head.

3/19 Hooked up tree and began injecting gas. In 15 hours well flowed on gas lift as follows:

	Gross	Net	Cut	Gravity	Bean	Tubing Pressure	Casing Pressure	MCF Gas Inj	Net
	211 gross fluid, of which 171 barrels is formation oil, 166 barrels net oil, cut 3.0%, 50# tubing pressure, 300# casing pressure, 20.3 gravity, 153 MCF injected gas, 47 MCF net.								
3/20	238	232	2.6%	20.3	32/64	100#	700#	217	89
3/21	103	103	0.3%	20.7	32/64	200#	750#	49	88
	Off 13 hours - gas injection line froze.								
3/22	Injection line frozen 3-1/2 hours.								
	190	190	0.2%	21.0	32/64	360#	750#	220	79
3/23	146	143	2.0%	20.6	32/64	140#	750#	211	109
3/24	152	151	0.4%	20.5	32/64	100#	940#	207	109
3/25	130	130	0.2%	20.5	32/64	250#	900#	232	68
	Off 4-1/2 hours - gas injection line frozen.								
3/26	166	166	0.2%	20.5	32/64	250#	900#	232	68
3/27	130	130	0.2%	20.5	32/64	250#	900#	220	118
3/28	119	119	0.2%	20.5	32/64	250#	900#	187	56
	Off 4 hours - gas injection line frozen.								
3/29	70	70	0.3%	20.8	14/64	250#	900#	61	65
	Off 11 hours - gas injection line frozen.								
3/30	95	95	0.3%	20.8	14/64	250#	900#	92	78
3/31	74	74	0.3%	20.8	14/64	250#	900#	145	97
4/1	71	70	0.8%	20.8	14/64	250#	900#	87	53
4/2	97	97	0.8%	20.8	14/64	250#	900#	92	78
4/3	38	38	0.8%	20.8	14/64	250#	900#	150	73



JUN 7 1954

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

LOS ANGELES, CALIFORNIA

WELL NO.: Standard-Sesnon 1-#25, Aliso Canyon Field

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1954	Gross	Net	Cut	Gravity	Bean	Tubing Pressure	Casing Pressure	MCF Gas Inj	Net
1954									
4/4	184	183	0.8%	20.8	1 1/64	250#	900#	220	87
4/5	103	102	0.8%	20.8	1 1/64	250#	900#	89	56
4/6	97	96	0.8%	20.8	1 1/64	250#	900#	49	89
4/7	111	110	0.8%	20.8	1 1/64	250#	900#	95	87
4/8	124	123	0.8%	20.8	1 1/64	250#	900#	119	110
4/9	107	106	0.8%	20.8	1 1/64	250#	900#	120	102
4/10	114	113	0.8%	20.8	1 1/64	250#	900#	122	124
4/11	92	91	0.8%	20.8	1 1/64	250#	900#	64	86
4/12	103	102	0.8%	20.8	1 1/64	250#	900#	44	96
4/13	103	102	0.8%	20.8	1 1/64	250#	900#	134	84
4/14	62	61	2.0%	20.8	1 1/64	250#	900#	55	43
	Off 13 hours.								
4/15	103	101	2.0%	20.8	1 1/64	250#	900#	122	72
4/16	113	111	2.0%	20.8	1 1/64	250#	900#	128	52
4/17	92	91	2.0%	20.8	1 1/64	250#	900#	168	40
4/18	103	101	2.0%	20.8	1 1/64	250#	900#	154	35
4/19-21	Shut in for pressure survey.								

CASING RECORD

11-3/4" 42# C 990'  
 7" 23, 26, 29# C 8585' 4 H 8583', 8475'  
 189' 5-1/2" 20# L 8748' Top 8559' Pf. 8592'-8748'

JUNK

893' 4-1/2" drill pipe and Johnston tester 3967'-4860'

TUBING RECORD

2-7/8" L 8540'

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCESDIVISION OF OIL AND GAS  
RECEIVED

## DIVISION OF OIL AND GAS

JUN 7-1954

## LOG AND CORE RECORD OF OIL OR GAS WELL

LOS ANGELES, CALIFORNIA

Operator TIDE WATER ASSOCIATED OIL COMPANYField ALISO CANYONWell No Standard-Sesnon 1-#25Sec. 28T. 3 NR. 16 W

S.B.

B. &amp; M.

## FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<u>1-1/4" LANE-WELLS SIDEWALL SAMPLES</u>					
3415'				3/4"	Soft, greenish-gray siltstone containing forams. Faint cut and odor.
3490'				No Recovery.	
3537'				1/2"	Soft, fine grained greenish-brown sandy siltstone. Faint cut, good odor.
3600'				1-1/4"	Soft, greenish-gray siltstone. Faint cut, no odor.
4630'				1-1/4"	Soft, greenish-brown silty shale with occasional forams. Slight cut, good odor.
4665'				No recovery.	
4705'				1/2"	Soft, light brown, coarse grained oil sand. Good cut and odor. Pebbles to 1/2".
4725'				3/4"	As above.
4767'				No recovery.	
4798'				3/4"	As above.
4820'				1-1/4"	As above.
4820'				1/2"	As above.
4820'				No recovery.	
4835'				1"	As above.
4860'				1"	Firm, coarse to medium grained, light brown oil sand with occasional shell fragments. Good cut and odor. Has grayish cast.
4860'				1/2"	As above.
4880'				No Recovery.	
4902'				1"	Soft, medium grained oil sand. Good cut & odor.
4902'				1/4"	As above.

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## DIVISION OF OIL AND GAS

LOS ANGELES, CALIFORNIA

## LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYONWell No. Standard-Resnon 1- 25 Sec. 28, T. 3 N, R. 16 W, S.B. B. & M.

## FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<u>SCHLUMBERGER SIDEWALL SAMPLES:</u>					
5530'				Fragment	Soft, medium grained, light brown oil sand.
5537'				1/2"	Firm, coarse grained, light brown oil sand.
5567'				3/4"	Firm, medium grained, dark brown oil sand. Good cut and odor.
5627'				No recovery	- cup in hole.
5646'				1/2"	Firm, greenish gray siltstone.
5668'				1"	As above.
5722'				3/4"	As above.
5725'				1/2"	As above.
5734'				1/2"	As above.
5757'				3/4"	Firm, greenish gray siltstone with occasional megafossils.
5804'				1/2"	Firm, greenish gray oil stained siltstone. Fair cut and odor.
5819'				3/4"	Oil stained as above.
5858'				1/2"	Firm, greenish gray siltstone.
5878'				1/2"	As above.
5938'				1/2"	Firm, light brown, silty oil sand with occasional megafossils. Good cut and odor.
<u>8-1/2" MERCURY CONVENTIONAL CORE BARREL:</u>					
5945'	5975'			15'	15' Oil Stained Sand. Variegated, greenish gray and brown, very fine grained to clayey siltstone. Generally firm but friable to mushy where core was disturbed in removing from barrel; fair to poor permeability and

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-3-  
LOS ANGELES, CALIFORNIA

## LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON

Well No. Standard-Sesnon 1-425 Sec. 28, T. 3 N, R. 16 W, S.B. B. & M.

## FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
8-1/2" MERCURY CONVENTIONAL CORE BARREL: (cont.)					
5945'	5975' (cont.)				porosity, staining is irregular with red-dish brown oil, strong gasoline odor, dark brown cuts, estimated 50% oil stained. Core looks wet. Occasional thin streaks of claystone (green). Shows slick places with black oil on surfaces. Sand grains look fresh and are chiefly quartz.
5975'	6005'			12'	12' Gray Sand. Greenish-gray, very fine grained, silty, well sorted, firm but friable, fair permeability and porosity. No cut, stain or odor except for 3" spotty staining at 6002' where core has mottled appearance (20% saturation), good odor, light amber cut. Sand grains are fresh, chiefly quartz with scattered biotite. Core is definitely wet.

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

Report on Test of Water Shut-off  
(FORMATION TESTER)

No. T 154-208

Mr. F C Foster  
Box "Y"  
Los Nietos California  
 Agent for TIDE WATER ASSOCIATED OIL CO

Los Angeles Calif.  
February 19 19 54

DEAR SIR:

Your well No. "Standard-Sesnon 1" 25, Sec. 28, T. 3 N, R. 16 W, S. B. B & M.  
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off  
 on February 13, 19 54. Mr. V F Gaede, Inspector, designated by the supervisor was present  
 from 12:25 a.m. to 2:30 a.m. as prescribed by law; there were also present M Shuler, Engineer  
R Frantz, Drilling foreman  
 Shut-off data: 7 in. 23, 29 lb. casing was cemented xxx at 8585 ft.  
 on February 10, 19 54 in. 10-5/8 in. hole with 600 ~~xxx~~ sacks of cement  
xxx calculated to fill behind casing to 6628 ft. below surface.  
 Casing record of well: 11-3/4" cem. 990'; 7" cem. 8585', four 1/2" holes 8583'; four 1/2"  
holes 8475', W.S.O.; Junk: T.D. (1st hole) 4948'

Present depth 8585 ft. cmt. bridge 8585 ft. to 8584 ft. Cleaned out cmt. 8547 ft. to 8584 ft. for test.  
 A pressure of 1200 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 8547 ft.  
 A Johnston tester was run into the hole on 3-1/2 in. drill pipe ~~xxx~~  
 with 1000 ft. of water-~~xxx~~ cushion, and packer set at 8434 ft. with tailpiece to 8451 ft.  
 Tester valve, with 3/8 in. bean, was opened at 9:40 p.m., February 12, 1954 and remained  
 open for 1 hr. and xxx min. During this interval there was a light steady blow for 1 minute,  
then no blow thereafter.

Mr. Shuler reported:

1. A 10-5/8" rotary hole was drilled 990'-4948'.
2. Lost Johnston tester and 4-1/2" drill pipe in hole from 4860' to 3967'.
3. On January 3, 1954, 150 sacks of cement mixed with 20% sand was pumped into the hole through 4-1/2" drill pipe hanging at 3967', filling to 3770'.
4. Cement was drilled out of the hole from 3770' to 3860'.
5. A whipstock was set at 3860'.
6. A 10-5/8" rotary hole was drilled 3860' to 8585'.
7. The 7" casing was cemented as noted above.
8. The 7" casing was shot-perforated with four 1/2" holes at 8583' for company test of shut-off.
9. The above perforations tested dry.
10. The 7" casing was shot-perforated with four 1/2" holes at 8475'.
11. A Johnston tester was run as noted above.

## THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed, a net recovery of 30' of drilling fluid was found in the drill pipe above the tester, equivalent to 0.2 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hour.

THE 7" SHUT-OFF AT 8475' IS APPROVED.

VIG:BS F/B

cc T L Wark  
 R S Curl  
 J R Bovyer (2)

R. D. BUSH, State Oil and Gas Supervisor

By R. H. Halling, Deputy



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

No. P 154-111

Los Angeles 15

Calif. January 21

19 54

Mr. F C Foster

Box "Y"

Los Nietos

Calif.

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Agent for TIDE WATER ASSOCIATED OIL CO

DEAR SIR:

"Standard-Sesnon 1"

Your supplementary proposal to drill Well No. 25

Section 28, T. 3 N., R. 16 W., S. B. B. &amp; M., Aliso Canyon Field, Los Angeles County,

dated Jan 18 19 54, received Jan 20 19 54, 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 new conditions are as follows:

1. Drilled to 2567' and cemented 11-3/4" 42# casing at 990' with 600 sacks Diamix and 100 sacks Neat cement.
2. Drilled to 4948' T.D. (Tested 4661'-4781'; 4795'-4910'.) Plugged to 4860'.
3. Left 893' of fish (including Johnston tester with two sidewall packers and 135' of tailpipe) in hole from 3967' to 4860'.
4. Parted 4-1/2" drill pipe while jarring, took hold of fish and resumed jarring, but could not recover."

## PROPOSAL:

## "New Program:

1. Move in larger rotary. Plug interval from 3860' to 3967'.
  2. Set whipstock and redrill to 4840'.
  3. Test interval from approximately 4710' to 4840'.
  4. Redrill to 5630' and test interval from 5450' to 5630'.
  5. Redrill to approximately 5755' and test interval from 5630' to 5755'. If commercial well indicated, cement 7" casing with water shutoff to be witnessed by D.O.G.
  6. If well is not commercial, drill to approximately 8575'.
  7. Cement 7" casing at point below the top of the Lower Sesnon Zone.
  8. Test for segregation between Upper and Lower Sesnon Zones.
  9. Test for water shutoff at top of Upper Sesnon Zone, to be witnessed by Division of Oil and Gas.
  10. Drill through Lower Sesnon interval and land 5-1/2" liner."
- DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT in all other respects, the well is redrilled in accordance with the requirements outlined in our report No. P 153-1294 dated October 20, 1953.

FVK:ES

cc T L Wark

Jos Jensen

J R Boyer (2)

Blanket bond.

R. D. BUSH

State Oil and Gas Supervisor

By

*R. H. Halling*

Deputy



DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS  
RECEIVED

JAN 20 1954

Supplementary Notice

LOS ANGELES, CALIFORNIA

Los Nietos Calif. January 18, 1954

DIVISION OF OIL AND GAS

Los Angeles Calif.

Our notice to you dated October 1, 1953, stating our intention to

Redrill

(Drill, deepen, redrill, abandon)

well No. Standard-Sesnon 1-#25

Sec. 28, T. 3 N, R. 16 W, S.B. B. & M. Aliso Canyon Field,

County, must be amended on account of changed or recently

discovered conditions.

The new conditions are as follows:

1. Drilled to 2567' and cemented 11-3/4" 42# casing at 990' with 600 sacks Diamix and 100 sacks Neat cement.
2. Drilled to 4948' T.D. (Tested 4661'-4781'; 4795'-4910'.) Plugged to 4860'.
3. Left 893' of fish (including Johnston tester with two sidewall packers and 135' of tailpipe) in hole from 3967' to 4860'.
4. Parted 4-1/2" drill pipe while jarring, took hold of fish and resumed jarring, but could not recover.

New Program:

1. Move in larger rotary. Plug interval from 3860' to 3967'.
2. Set whipstock and redrill to 4840'.
3. Test interval from approximately 4710' to 4840'.
4. Redrill to 5630' and test interval from 5450' to 5630'.  
~~When well is commercial~~
5. Redrill to approximately 5755' and test interval from 5630' to 5755'. If commercial well indicated, cement 7" casing with water shutoff to be witnessed by D.O.G.
6. If well is not commercial, drill to approximately 8575'.
7. Cement 7" casing at point below the top of the Lower Sesnon Zone.
8. Test for segregation between Upper and Lower Sesnon Zones.
9. Test for water shutoff at top of Upper Sesnon Zone, to be witnessed by Division of Oil and Gas.
10. Drill through Lower Sesnon interval and land 5-1/2" liner.

*Suppl. to drill*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
			Blanket	EB	EB

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

By *J E Weaver*  
Agent *B.*

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

## Special Report on Operations Witnessed

No. T 153-1352

Los Angeles 15  
Calif. November 17 1953

Mr F C Foster

Mr Box Y

Los Nietos

Calif.

Agent for TIDE WATER ASSOCIATED OIL CO

DEAR SIR:

"Standard-Seanon 1"

Operations at your well No. 25 Sec. 28, T. 3 N, R. 16 W, S. B. B. &amp; M.,

Aliso Canyon

Field, in Los Angeles

County, were witnessed by

G. J. Borkovich, Inspector

, representative of the supervisor,

on November 9, 1953. There was also present R. Butler, Driller;

J. Manson, Derrickman.

Casing Record 11-3/4" cas. 990'. T.D. 3628'.

Junk None

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

The inspector arrived at the well at 12:40 p.m. and Mr. Butler reported:

1. A 10-5/8" rotary hole was drilled from the surface to 2572' and opened up to 16" hole to 990'.
2. On October 18, 1953, 11-3/4", 42 lb. casing was cemented at 990' with 600 cu. ft. 1:1 mix cement and diamix.
3. Cement returned to the surface.
4. A 10-5/8" rotary hole was drilled from 2572' to 3628'.

THE INSPECTOR NOTED THAT THE WELL WAS EQUIPPED WITH THE FOLLOWING BLOWOUT PREVENTION EQUIPMENT:

1. A Regan blowout preventer for closing in the well with the drill pipe out of the hole.
2. A Regan blowout preventer for closing around the 4-1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure stopcock into the 11-3/4" casing below the above equipment.

The inspection was completed at 1:20 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

GJB:OH

CC J R Boyer (2)

Mr T L Mark

c/o Tide Water Associated Oil Co

79 New Montgomery Street

San Francisco California

Mr Jos Jensen

c/o Tide Water Associated Oil Co

688 Pacific Electric Bldg

LOS ANGELES 14

R. D. BUSH

State Oil and Gas Supervisor

By

*R. D. Bush*

Deputy



STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCESDIVISION OF OIL AND GAS  
REPORT ON PROPOSED OPERATIONSNo. P 153-1294Los Angeles 15 Calif.October 20 19 53Mr. F C FosterBox YLos Nietos

Calif.

121

Agent for TIDE WATER ASSOCIATED OIL CO

DEAR SIR:

Your \_\_\_\_\_ proposal to drill Well No. "Standard-Sesnon 1" 25Section 28, T. 3 N, R. 16, S. B B. & M., Aliso Canyon Field, Los Angeles County,dated Oct. 1 19 53, received Oct. 15 19 53, 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 820.00 feet S. and 5360.00 feet W. from Station #84

Elevation of ground above sea level 2927.02 feet.

All depth measurements taken from top of Derrick Floor, which is 6.35 feet above ground.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4550 feet."

## PROPOSAL

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

Size of Casing	Weight	Grade and Type	Depth	Landed or Cemented
11-3/4"	42 & 47#	T&C, H-40, J-55	2500'*	Cemented
7"	23#	T & C, J-55	4775'	Cemented
5"	18#	J-55 F.J.	4900'	Landed

\*The 11-3/4" casing will be set between 1000'-2500', depending upon lost circulation.

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

## DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
2. Any hole to be sidetracked in any oil or gas zone shall be filled with cement, if possible.
3. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
  - (a) To inspect the installed blowout prevention equipment before drilling below 3000'.
  - (b) To witness a test of the effectiveness of the 7" shut-off.

FEK:OH

cc J R Boyver (2)

T L Wark

c/o Tide Water Associated Oil Co  
79 New Montgomery Street  
San Francisco CaliforniaWes. Jensen c/o Tide Water Assoc.  
888 Pac. Elec. Bldg. Oil Co.  
Los Angeles 14

R. D. BUSH

State Oil and Gas Supervisor

By

*R. D. Bush*

Deputy



OCT 15 1953

LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

037-00776

Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

Los Nietos,

Calif.

October 1

1953

DIVISION OF OIL AND GAS

Los Angeles

Calif.

MAP	MAP BOOK	CARDS	BOND	FORMS	
18A			Blanket	114	121

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. "Standard-Seanon I" #25, Sec. 28, T. 3 N

R. 16 W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

Legal description of lease

Standard-Seanon 1

The well is 820.00 feet N. or S., and 5360.00 feet E. or W. from Station #84

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

Elevation of ground above sea level 2927.02 feet

All depth measurements taken from top of Derrick Floor, which is 8.35 feet above ground.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4550' feet.

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

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
11-3/4"	42 & 47#	T&C, H-40, J-55	2500' *	Cemented
7"	23#	T & C, J-55	4775'	Cemented
5"	18#	J-55 F.J.	4900'	Landed

\*The 11-3/4" casing will be set between 1000'-2500', depending upon lost circulation.

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

Address P. O. Box "Y", Los Nietos,

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

Telephone number Oxford 91051

By

J. C. Foster  
Agent