

50. California Gas Co.
 OPERATOR Partick
 LSE & NO. SF 20 55-11
 MAP NO. 250

REPERFORATE

	1	2	3	4	5
INTENTION	<u>ML</u>				
NOTICE DATED		<u>5-15-77</u> <u>rework</u>	<u>01/19/2006</u>		
P-REPORT NUMBER	<u>273-161</u>	<u>277-177</u>	<u>P206-25</u>		
CHECKED BY/DATE					
MAP LETTER DATED	<u>NC</u>	<u>no change</u>			
SYMBOL					

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE HISTORY	<u>9-7-73</u>		<u>8-4-77</u>		<u>01/25/06</u>					
SUMMARY					<u>3/6/00</u>					
IES/ELECTRIC LOG										
DIRECTIONAL SURV.										
CORE/SWS DESCRIPT.										
DIPMETER RESULTS										
OTHER			<u>rework</u> <u>8/15/77</u>	<u>X</u>	<u>3/3/00</u>					
RECORDS COMPLETE	<u>9-7-73</u>		<u>8-15-77</u>	<u>X</u>	<u>SK</u>					

ENGINEERING CHECK

CLERICAL CHECK

ENGINEERING CHECK	CLERICAL CHECK
T-REPORTS	POSTED TO 121 _____ 170 MAILED _____ FINAL LETTER _____
OPERATOR'S NAME	MAILED _____
WELL DESIGNATION	RELEASE _____
LOG. & ELEV.	BOND _____
SIGNATURE	_____
SURFACE INSPECTION	_____
FINAL LETTER OK	_____

REMARKS: _____

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

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company

Field: Aliso Canyon

County: Los Angeles

Well: Standard Sesnon 31

Surface Location: Sec. 28, T3N, R16W S.B.B.&M.

A.P.I. No. 037-00781

Mark Kuncir

Title: Storage Field Engineer

(President, Secretary, or Agent)

Date: 03/03/2006

Signature: 

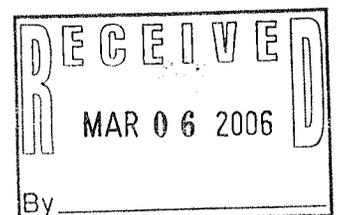
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number: 818-700-3810

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

Start Date	Ops. DOGGR Rpt
01/20/2006	RU Spicer W/L. RIH w/ 1-3/4" x 30' drift tool to check tbg for obstructions. Tagged @ 9154' w/ tbg tail @ 8824'. RD W/L.
02/23/2006	MIRU Schlumberger W/L. RIH w/ PDC GR-NL tool and tagged fill @ 9116'. PU 1-11/16" strip gun and RIH and perforated 7" csg w/ 2 SPF (Enjet-DP 1.69", EJ3, RDX, ~0.28" holes) from 9095-9075', 9075-9055', 9055-9035', 9035-9015', 9015-8995' and 8980-8960' (Runs 1 - 6, 120'). Closed well in overnight.
02/27/2006	RIH w/ 1-11/16" strip gun and perforated 7" csg w/ 2 SPF from 8960-8940', 8940-8935', 8920-8900', 8900-8880', 8880-8860' and 8860-8850' (Runs 7 - 12, 95'). RD W/L.



PERMIT TO CONDUCT WELL OPERATIONS

010
(field code)
00
(area code)
30
(new pool code)
30
(old pool code)

Gas Storage

James D. Mansdorfer, Agent
Southern California Gas Company
9400 Oakdale Ave
Chatsworth CA 91313

Ventura, California
January 26, 2006

Your _____ proposal to _____ reperform _____ well "Standard Sesnon" 31
A.P.I. No. 037-00781 Sec. 28, T. 3N, R. 16W, SB B.&M.,
Aliso Canyon field, _____ area, Sesnon-Frew pool
Los Angeles County, dated 01/19/2006 received 01/25/2006 has been examined in conjunction
with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Wire line operations are conducted through at least a 5M lubricator.
2. This office shall be consulted before initiating any changes or additions to this proposed operation or if operations are to be suspended.

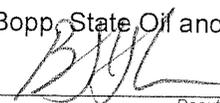
The Division recommends, as a minimum, that carbon monoxide monitoring equipment and a vent line be installed and maintained operational during all extensive perforating operations.

SAF:sf

Engineer Steven A. Fields

Phone (805) 654-4761

Hal Bopp, State Oil and Gas Supervisor

By  _____
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

010
100
30

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

NOTICE OF INTENTION TO REWORK / REDRILL WELL

P20625

C.E.Q.A. INFORMATION (when redrilling or deepening only)			
Exempt <input type="checkbox"/>	Neg. Dec. <input type="checkbox"/>	E.I.R. <input type="checkbox"/>	Document not required by local jurisdiction <input type="checkbox"/>
Class _____	S.C.H. No. _____	S.C.H. No. _____	
See Reverse Side			

FOR DIVISION USE ONLY			
Bond	Forms		EDP Well
	OGD114	OGD121	File
1000000	111	115	

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

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 31 API No. 03700759
(Circle one) (Well designation)

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

GS

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

0-1708' 11-3/4" 42-47# H40 & J55 Surface csg;
0-9130' 7" 23-29# J55 & N80 Prod. csg. Cmt plug from 9013-9128';
0-8824' 2-7/8" 6.5# J55 EUE 8rd tbg landed on 7" pkr @ 8806';
7" 26# csg perforated w/ four 1/2" HPF from 8850-8920', 8935-8980', 8995-9055', 9055-9095' and 9105-9128' (238' total). Re-perforated w/ two 1/2" HPF from 8850-8870', 8878-8884', 8878-8884', 8892-8894', 8897-8899' and 9064-9067'.

2. The total depth is: 9130 feet. The effective depth is: 9128 feet.

3. Present completion zone (s): Sesnon Anticipated completion zone (s): Sesnon
(Name) (Name)

4. Present zone pressure: 2740 psi. Anticipated/existing new zone pressure: 2740 psi.

5. Last produced: 11/2005 4 1 3.458
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

(or)
Last injected: _____ (Date) _____ (Water, B/D) _____ (Gas, Mcf/D) _____ (Surface pressure, psig)

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

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

Re-perforate storage-zone (Sesnon) w/ 2 SPF (1-11/16" strip gun loaded w/ Enjet-DP 1.69", RDX, -0.28" hole) from 8850-8920', 8935-8980', 8995-9055' and 9055-9095' (215' total).

JAN 25 2006

For redrilling or deepening: NA NA
(Proposed bottom-hole coordinates) (Estimated true vertical depth)

The division must be notified if changes to this plan become necessary.

Name of Operator Southern California Gas Company	Telephone Number 818.700.3810
Address 12801 Tampa Avenue	City Northridge
Name of Person Filing Notice Mark T. Kuncir	Signature
	Zip Code 91326
	Date 1/19/06

File In Duplicate

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Ventura, California

November 6, 1991

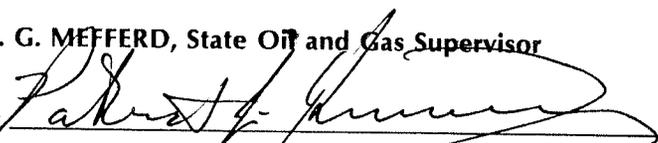
R. D. Phillips, Agent
SOUTHERN CALIFORNIA GAS COMPANY
P.O. Drawer 3249 Mail Location 22G0
Los Angeles, CA 90051-1249

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:

<u>FROM</u>	<u>TO</u>
"SFZU" SS-11 (037-00763)	"Standard Sesnon" 11 (037-00763)
"SFZU" SS-13 (037-00765)	"Standard Sesnon" 13 (037-00765)
"SFZU" SS-14 (037-00766)	"Standard Sesnon" 14 (037-00766)
"SFZU" SS-16 (037-00768)	"Standard Sesnon" 16 (037-00768)
"SFZU" SS-17 (037-00769)	"Standard Sesnon" 17 (037-00769)
"SFZU" SS-25 (037-00776)	"Standard Sesnon" 25 (037-00776)
"SFZU" SS-29 (037-00741)	"Standard Sesnon" 29 (037-00741)
"SFZU" SS-30 (037-00780)	"Standard Sesnon" 30 (037-00780)
"SFZU" SS-31 (037-00781)	"Standard Sesnon" 31 (037-00781)
"SFZU" SS-44 (037-00788)	"Standard Sesnon" 44 (037-00788)
"SFZU" SS-1-0 (037-22058)	"Standard Sesnon" 1-0 (037-22058)

M. G. MEFFERD, State Oil and Gas Supervisor

By 

Deputy Supervisor

PATRICK J. KINNEAR

- 7-1-77 Ran in hole with Otis J.P. plug and could not stab in packer. Pulled out and ran in with new plug to set in packer but plug would not hold pressure. Started pulling out of hole.
- 7-2-77 Finished pulling out of hole with Otis J.P. plug, made up Baker model "C" bridge plug. Set at 2420'. Pulled above bridge plug and tested to 2000 psi for 15 minutes, O.K. Removed cellar floor to weld on new casing head.
- 7-5-77 Finished digging out cellar floor. Removed Hydril bag and saw that drilling mud was gas cut. Replaced bag and hooked up B.O.P.E. Ran in hole, circulated above bridge plug and pulled bridge plug. Started running in hole open ended to circulate gas cut mud.
- 7-6-77 Ran in hole and circulated bottoms up. Pulled out and made up Baker Lock-Set bridge plug and set at 2500'. Pulled up and tested plug to 2000 psig for 20 minutes, O.K. Pulled out and ran in with Baker model "C" bridge at 500' and pressure tested to 2000 psig for 15 minutes. Started removing rig floor and B.O.P.E.
- 7-7-77 Made up casing spear and bumper sub. Removed packing plate and packing and ran around 7" casing. Attempt to remove slips failed. Cut 1 1/4" casing, still no luck. Welder split 1 1/4" casing head and removed slips. Digging out cellar.
- 7-8-77 Finished digging out cellar, cut off conductor pipe and 1 1/4" casing, cut and threaded 7" casing pup (23# N-80) and made up.
- 7-9-77 Rigged up power tongs and hyrotester. Tested 7" casing pup to 4000 psig for 15 minutes, O.K. Welded on 5000# casing head and X-rayed weld.
- 7-11-77 Set 7" combination casing string with 215,000# on slips in 1 1/4" casing head. Made up seal flange and tubing head. Tested to 3500 psig, O.K. Installed B.O.P.E. and tested as follows:
- | | | | | | | |
|------------|------|------|----|---------|-------|------|
| Blind rams | 4000 | psig | 20 | minutes | water | O.K. |
| Pipe | " | " | " | " | " | O.K. |
| Hydril bag | 3000 | " | " | " | " | O.K. |
- 7-12-77 Finished testing B.O.P.E. as follows:
- | | | | | | | |
|------------|------|------|----|---------|----------|------|
| Blind rams | 4000 | psig | 20 | minutes | nitrogen | O.K. |
| Pipe rams | " | " | " | " | " | O.K. |
| Hydril bag | 3000 | " | " | " | " | O.K. |
- Pulled bridge plugs from 500' and 2500'. Ran in hole with 6" bit and casing scraper to 8817 (top of packer).
- 7-13-77 Pulled 6" bit and casing scraper. Ran in hole with sawtoothed collar on the end of 2 7/8" Hydril flush joint stinger to clean out hole below packer at 8817'. Found 12' of fill at 9116' consisting of scale and minor amounts of sand. Circulated fill out. Pulled out and ran in with Otis J.P. plug for packer at 8817'. Tested packer with 2000 psig at surface for 15 minutes, O.K. Changed over to fresh water.
- 7-14-77 Ran in with Baker Pull bore retainer and tested casing as follows:

4500'	-	8817'	with	2200	psig	60	minutes	O.K.
4500'	-	Surface	"	2400	"	"	"	O.K.
3800'	-	"	"	2700	"	"	"	O.K.

DIVISION OF OIL AND GAS
RECEIVED

AUG 1 1977

SANTA PAULA, CALIFORNIA

3400' - Surface with 2900 psig 60 minutes O.K.
 3000' - " " 3100 " " " O.K.

Pulled up to 2400' with retainer unset. Replaced cellar floor.

7-15-77

Continued testing 7" with results as follows:

2400' to surface with 3300 psig 60 minutes O.K.
 2000' " " " 3500 " " " O.K.
 1600' " " " 4000 " " " O.K.

Ran in to retrieve J.P. plug from Otis packer.

7-16-77

Pulled out of hole and found only "J" slot portion of the plug. Seals were left in packer body. Designed a fishing tool and ran it bottom.

7-18-77

Pulled out of hole and recovered packer plug fish. Hydrottested tubing, changed collars and applied Baker Seal.

7-19-77

Ran 2 7/8" tubing, changed collars, applied Baker Seal and hydrottested to 5000 psig for 1 minute. Replaced 88 joints of bad tubing.

7-20-77

Finished running and testing 2 7/8" tubing. Landed on packer at 8817' with 8000#. Spaced out and installed back pressure plug in donut. Removed B.O.P.E. and made up Christmas tree. Tested to 5000 psig for 50 minutes. Changed over to lease water and circulated.

7-21-77

Set plug in NO-GO nipple. Tested seals in packer @ 8817' with 1500 psig for 20 minutes, O.K. Recovered tubing plug, installed blind flanges on well head valves. Rig released 11:00 A.M.

DIVISION OF OIL AND GAS
 RECEIVED

AUG 4 1977

SANTA PAULA, CALIFORNIA

PW

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

Report on Operations

No. T 277-155

Mr. P. S. Magruder, Jr., Agent
So. California Gas Co.
P.O. Box 54790 Terminal Annex
Los Angeles, Calif. 90054

Santa Paula, Calif.
July 15, 1977

DEAR SIR:

Operations at well No. "SFZU" SS-31, API No. 037-00781, Sec. 28, T. 34, R. 16W,
S.B. B & M, Aliso Canyon Field, in Los Angeles County, were witnessed
on 6/30/77. Mr. P.R. Wygle, representative of the supervisor was
present from 1400 to 1600. There were also present D. Barton, foreman

Present condition of well: No additions to the casing record since proposal dated
5/18/77.

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

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

M. G. MEFFERD (acting)

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

By John L. Herndon Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 277-182 ¹⁷⁷

Mr. P.S. Marruder, Jr., Agent
Southern Calif. Gas Co.
P.O. Box 54790 Terminal Annex
Los Angeles, Calif. 90054

Santa Paula, Calif.
May 23, 1977

DEAR SIR:

(037-00781)

Your proposal to rework gas storage Well No. "SFZU" SS-31, Section 28, T. 3N, R. 16W, S.E.B. & M., Aliso Canyon Field, Los Angeles County, dated 5/18/77, received 5/23/77, has been examined in conjunction with records filed in this office.

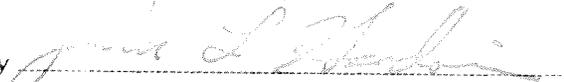
THE PROPOSAL IS APPROVED PROVIDED THAT:

1. The drilling fluid used shall be of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts; and a reserve supply of this material shall be kept on hand to meet any emergency.
2. Blowout prevention equipment, at least of the Division of Oil and Gas Class III, 3M rating, shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS A PRESSURE TEST OF THE BLOWOUT PREVENTION EQUIPMENT BEFORE COMMENCING DOWNHOLE OPERATIONS.

NOTE: A COPY OF THIS APPROVAL SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

Blanket Bond
MD:b

M. G. MEFFERD (acting)
JOHN F. MATTHEWS, Jr., State Oil and Gas Supervisor

By  Deputy

MAY 23 1977

DIVISION OF OIL AND GAS
Notice of Intention to Rework Well

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

SANTA ANITA, CALIFORNIA

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
	✓	✓

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 #31, 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:

- Total depth. 9130'
- Complete casing record, including plugs and perforations:
 - 11 3/4" cemented 1708'
 - 7" cemented 9130' - plug at 9128'
 - WSO 8849'
 - Segregation 8990'
 - Perforated at intervals 9128'-8995'
 - and 8980'-8850'

- Present producing zone name SESNON Zone in which well is to be recompleted ---
- Present zone pressure 2500 New zone pressure ---
- Last produced Gas Storage Well
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)
or
- Last injected _____
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

- Move in, kill well and install B.O.P.E.
- Remove 3000 psi casing head and replace with 5000 psi casing head.
- Run tubing with safety valve and return well to gas storage.

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 689-3561

SOUTHER CALIFORNIA GAS COMPANY
(Name of Operator)
By P.S. Magruder, Jr. 5-18-77
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

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. & 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)

DIVISION OF OIL AND GAS

SEP 7 1973

History of Oil or Gas Well

SANTA PAULA, CALIFORNIA

OPERATOR Pacific Lighting Service Company FIELD Aliso Canyon

Well No. SF7U SS #31, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Date September 5, 1973 Signed J.B. Maguire Jr.

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	
4-27	Moved in California Production Service rig with mud pump. Bled off well head pressure from 1,000 psi to 200 psi. Pumped 900 bbls. of polymer drilling fluid including two 60 bbl. high gel polymer drilling fluid batches but were unable to establish circulation. Well head pressure fell to zero.
4-28	Mixed and pumped an additional four separate batches of high gel polymer drilling fluid waiting one to three hours between batches. Pumped at total of 300 bbls. but still unable to establish circulation.
4-29	Idle.
4-30	Pumped 50 bbls. of polymer drilling fluid and obtained oil returns for ten minutes when fluid started going away into well. Ran Otis tubing plug and set in ported "X" nipple at 8865' to plug off the Sesnon Zone. Removed Xmas tree and installed B.O.P. Mixed 350 bbls. of Emulgo inverted emulsion mud. Displaced polymer drilling fluid with Emulgo.
5-1	Using Otis wireline equipment attempted to recover tubing plug at 8865'. After several attempts, proceeded to pull 2-7/8" tubing including seven gas lift mandrels, Guiberson packer, "X" nipple and two Guiberson cups. Ran in well with 6" bit and casing scraper.
5-2	Pumped Emulgo drilling fluid and after pumping 60 bbls. obtained full circulation. Circulated and cleaned out fill from 9094' to 9128'. Ran Dresser Atlas Neutron lifetime log and recorded from 9108' to 7700'. Ran Dresser Atlas compensated density log and recorded from 9104' to 7700'.

1973

5-3 Ran Dresser Atlas cement bond & neutron logs and recorded from 9086'-6800'. Ran bridge plug and retrievable retainer and pressure tested 7" casing as follows:

0-8835'	1200 psi
0-7000'	1750 psi
0-4800'	2100 psi
0-3000'	2700 psi
0-1500'	3400 psi

5-4 Pulled retrievable retainer and recovered bridge plug. Ran 6" bit and casing scraper and cleaned out fill 9094'-9128'. Circulated 2 hours and recovered sand and debris. Using Dresser Atlas 4" Golden Jet gun and reference collars shot two 1/2" holes per foot as follows: 9067'-9064', 8899'-8897', 8894'-8892', 8884'-8878', 8870'-8850'; total 66 shots.

5-5 Using Dresser Atlas wireline equipment and reference collars, set Otis permanent packer with bottom at 8820' and top at 8817'. Ran 2-7/8" tubing and landed in existing tubing head with new doughnut. Landed tubing with 6000# on packer. Attempted to set tubing plug but tools broke at cable head and assumed fell to bottom of well (details of fish attached).

TUBING DETAIL:

31'	8857'-8826'	1 jt. 2-7/8" EUE, J-55 w/chamfered collar on bottom
6'	8826'-8820'	4 Otis seal nipples
31'	8820'-8789'	1 jt. 2-7/8" EUE, J-55
3'	8789'-8786'	Otis sliding sleeve
33'	8786'-8753'	1 jt. 2-7/8" EUE, J-55
1'	8753'-8752'	Otis X nipple
32'	8752'-8720'	1 jt. 2-7/8" EUE, J-55
12'	8720'-8708'	Camco KBMG Mandrel BK-1 valve, 950# (1)
728'	8708'-7980'	24 jts. 2-7/8" EUE, J-55
11'	7980'-7969'	Camco KBMG mandrel BK-1 valve, 975# (2)
786'	7969'-7183'	26 jts. 2-7/8" EUE, J-55
11'	7183'-7172'	Camco KBMG mandrel BK-1 valve, 1000# (3)
789'	7172'-6383'	26 jts. 2-7/8" EUE, J-55
11'	6383'-6371'	Camco KBMG mandrel BK-1 valve, 1025# (4)
849'	6371'-5522'	28 jts. 2-7/8" EUE, J-55
11'	5522'-5511'	Camco KBMG mandrel BK-1 valve, 1050# (5)
5485'	5511'-26'	179 jts. 2-7/8" EUE J-55
16'	26'-10'	one 10' & one 6' jt. of 2-7/8" EUE J-55

K.B. 10' above ground

Total 287 joints of tubing plus one 10' and one 6' joint.

5-6 Idle.

5-7 Pumped 300 bbls. of lease salt water down tubing with seals pulled out of packer and recovered 150 bbls. of Emulgo drilling fluid. Relanded tubing and set tubing plug in X nipple at 8753'. Pressure tested packer to 2000 psi. Removed B.O.P. and installed Xmas tree. Pressure tested Xmas tree and doughnut to 3500 psi. Displaced fluids in well with nitrogen to 6000'. Attempted to pull tubing plug but were unable to latch same. Released rig.

1973

5-7 Summary of fluids lost in killing and workover SS #31:
Cont'd

1100 bbls. polymer drilling fluid

300 bbls. Emulgo drilling fluid

300 bbls. lease salt water

NOTE: May 8, ran Otis wireline bailer to bail sand off tubing plug at 8753' and stuck bailer. Unable to free bailer, so on May 9, cut line and recovered line cutter. On May 19, ran 1/4" multiwire unit and latched onto stuck bailer, but unable to pull with 2400 lbs. Since were unable to recover bailer and tubing plug with wireline moved rig back to well to pull tubing and recover stuck tools.

5-22 Moved in and rigged up California Production Service rig. Circulated and conditioned Emulgo drilling fluid. Pulled valve from gas lift mandrel at 7969'. Circulated down tubing and killed well. Removed Xmas tree and installed B.O.P.

5-23 Pulled tubing and found tubing plug and bailer stuck in sand. Ran new seal units and new BK-1 valves in gas lift mandrels. Reran tubing, hydrotesting to 5000 psi. Landed tubing with 6000 lbs. on packer and placed X nipple below sliding sleeve. Attempted to displace Emulgo drilling fluid with lease water but pumped water away into formation.

TUBING DETAIL

31'	8857'-8826'	1 jt. 2-7/8" EUE, J-55 w/chamfered collar
6'	8826'-8820'	4 Otis seal nipples & locator sub
31'	8820'-8789'	1 jt. 2-7/8"
1'	8789'-8788'	Otis X nipple
33'	8788'-8755'	1 jt. 2-7/8"
3'	8755'-8752'	Otis sliding sleeve (<u>closed</u>)
32'	8752'-8720'	1 jt. 2-7/8"
12'	8720'-8708'	Camco KBMG BK-1 valve 950#
728'	8708'-7980'	24 jts. 2-7/8"
11'	7980'-7969'	Camco KBMG BK-1 valve 975#
786'	7969'-7183'	26 jts. 2-7/8"
11'	7183'-7172'	Camco KBMG BK-1 valve 1000#
789'	7172'-6383'	26 jts. 2-7/8"
11'	6383'-6371'	Camco KBMG BK-1 valve 1025#
849'	6371'-5522'	28 jts. 2-7/8"
11'	5522'-5511'	Camco KBMG BK-1 valve 1050#
5485'	5511'-26'	179 jts. 2-7/8"
16'	26'-10'	one 10' & one 6' pup
10'	10'-surface	Derrick floor to top of tubing

5-24 Removed B.O.P. and installed Xmas tree. Tested Xmas tree and doughnut to 3500 psi. Pumped nitrogen down annulus and only obtained 100 bbls. of Emulgo drilling fluid. Moved out rig and returned well to production.

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 273-181

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:

(037-00781)

Your proposal to alter casing Well No. "SFZJ" SS-31
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.

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 *John F. Matthews, Jr.*, Deputy

DIVISION OF OIL & GAS
APR 19 1973
SANTA PAULA, CALIFORNIA

DIVISION OF OIL AND GAS

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

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

Los Angeles Calif. April 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 31

(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:

- Total depth. 9130'
- Complete casing record, including plugs:

- 11-3/4" c. 1708'
- 7" c. 9130'
- Plug 9128' - 9130'
- 4 holes 8850' cemented
- 4 holes 8848'
- 4 holes 8990' CO
- 2 holes 8849' WSO

Gun perforations four 1/2" HPF 8850'-8920', 8935'-8980', 8995'-9095' and 9105'-9128'

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 8855' to 9128' to convert well to a gas storage well.

CURREN				
114	115	116	117	118
		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 *P. S. Magueda*

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
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FEB 17 1954

WELL SUMMARY REPORT

LOS ANGELES, CALIFORNIA

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON
 Well No. Standard-Cesnon 1-#11 Sec. 28, T. 3 N, R. 16 W S.B. B. & M.
 Location 2700' South and 5541.00' West of Station #84. Elevation of ground above sea level 2577.47 feet.
 All depth measurements taken from top of derrick floor, which is 9.60 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 February 11, 1954 Signed J. E. Weary
J. R. Boyer (Engineer or Geologist) O. O. Ruman (Superintendent) Title Agent (President, Secretary or Agent)

Commenced drilling September 14, 1953 Completed drilling October 28, 1953 Drilling tools rotary
 Total depth 9130' Plugged depth 9128' GEOLOGICAL MARKERS _____ DEPTH _____
 Junk _____

Commenced producing November 9, 1953 (date) Flowing/~~gas lift pumping~~ (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
<u>11/10/53</u> Initial production	<u>385</u>	<u>24.5</u>	<u>4.0%</u>	<u>2818</u>	<u>1100#</u>	<u>1550#</u>
Production after 30 days	<u>139</u>	<u>21.0</u>	<u>0.2%</u>	<u>157</u>	<u>500#</u>	<u>2300#</u>

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
<u>11-3/4"</u>	<u>1700'</u>	<u>0'</u>	<u>12 & 17#</u>	<u>Now</u>	<u>Seamless</u>	<u>H-40, J-55</u>	<u>15-1/2"</u>	<u>950 DMA.</u>	
<u>7"</u>	<u>9130'</u>	<u>0'</u>	<u>23, 25, 29#</u>	<u>Now</u>	<u>Seamless</u>	<u>J-55, N-80</u>	<u>10-5/8"</u>	<u>600</u>	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
<u>7"</u>	<u>8850</u> ft.	<u>8920</u> ft.	<u>4 - 1/2" holes/ft.</u>			<u>O.P. by McCullough</u>
<u>7"</u>	<u>8935</u> ft.	<u>8980</u> ft.	<u>4 - 1/2" holes/ft.</u>			<u>" "</u>
<u>7"</u>	<u>8995</u> ft.	<u>9095</u> ft.	<u>4 - 1/2" holes/ft.</u>			<u>" "</u>
<u>7"</u>	<u>9105</u> ft.	<u>9128</u> ft.	<u>4 - 1/2" holes/ft.</u>			<u>" "</u>

Electrical Log Depths 2300' - 9130' (Attach Copy of Log)

DIVISION OF OIL AND GAS

FEB 17 1954

History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. Standard-Session 1-431, Sec. 28, T. 3 N, R. 16 W, S. B. B. & M.

Signed J. E. Weaver

Date February 11, 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: 2300.00' South and 5541.00' West of Station #84.

ELEVATION: 2577.47' Mat
2587.27 Derrick Floor

1953

8/5-8/28

Grading, digging cellar and setting conductor pipe, building foundation forms, pouring foundation concrete, oiling roads.

8/29-9/9

Idle.

9/10-9/13

Moving in and rigging up.

9/14

Spudded 10-5/8" hole at 9:00 PM and drilled to 126'.

9/15-9/22

Drilled 10-5/8" hole from 126' to 2506'. Ran Schlumberger electric log at 2506'. Opened 10-5/8" hole to 15-1/2" from surface to 1010'. Lost circulation for 2 hours while opening hole at 530'.

9/23

Opened 10-5/8" hole to 15-1/2" from 1010' to 1610'.

9/24

Ran and cemented 11-3/4" 42 x 47# Youngstown T & C casing at 1708' with 800 sacks of 1:1 mix construction cement and Diamix followed by 130 sacks of Neat cement, all treated with CaCl. Pressure increased from 400-700# when plugs bumped. Lost circulation with 50 cu. ft. of cement to displace. Time 6:00 PM. B.J. Service. Casing detail is as follows: bottom 352' is 47# J-55 and balance is 42# N-40. Cemented with 20 sacks around top of casing.

9/25

Cleaned out to 2539'. Tested casing at 750#. Drilled 10-5/8" hole from 2506' to 2591'.

9/26-10/4

Drilled 10-5/8" hole from 2591' to 4866'. Pipe stuck while drilling at 4800'. Worked loose.

10/5-10/20

Drilled 10-5/8" hole from 4866' to 8492'. Converted to carbonox emulsion lime base drilling fluid at 8492'.

10/21-10/28

Drilled 10-5/8" hole from 8492' to 9130'. Ran Schlumberger electric log and Gamma Ray to 9130'. Conditioned mud.

10/29

Ran and cemented 7" 23, 26 and 29#, J-55 and N-80, T & C casing at 9130' with 600 sacks Colton Hi-temperature cement. Pressure increased from 900-1600# when plugs bumped. Time 11:25 AM. B.J. Service. Casing detail is as follows: 1549' 23# N-80 (Top); 3125' 23# J-55; 1372' 23# N-80; 2073' 26# N-80; 1011' 29# N-80. Used two centralizers each on joints at 9000' and 8832'.

10/30

Standing cemented. Ran Schlumberger Gamma Ray Log, collar locator and temperature survey. Laid down 4-1/2" drill pipe and made up 2-7/8" drill pipe. Conditioned mud.

10/31

Cleaned out to 9120'. Ran Schlumberger gun perforating tool and collar locator. Shot four 1/2" holes at 8990'. Ran Johnston formation tester on 2-7/8" drill pipe and set packer at 8940' with tailpipe to 8955'. Used 780' water cushion.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

DIVISION OF OIL AND GAS
RECEIVED

WELL NO.: Standard-Sesnon 1-#31, Aliso Canyon Field

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1953

LOS ANGELES, CALIFORNIA

- 10/31 (cont.) Opened tester at 3:13 PM. Had very light decreasing blow for 30 seconds, then dead for balance of 1 hour test. Recovered 90' net rise of drilling fluid. Pressure bomb charts confirmed results of test. Ran Johnston gun and tester on 2-7/8" drill pipe and shot four jet holes at 8850'. Set packer at 8800' with perforated tailpipe to 8821'. Used 960' water cushion. Opened tester at 11:00 PM. Had very strong, increasing blow. Water cushion and gas to surface in 8 minutes. Continued producing gas at high rate for duration of test. Pulled packer loose at 11:20, after 20 minutes of test, top valve leaked. Water not shutoff. Recovered 300' net rise of drilling fluid. Sample 90' above tester tested 4.0% mud, 46.0% water, salinity 150 grains per gallon. Sample at tester, 7.0% mud, 43.0% water, salinity 150 g/g (questionable).
- 11/1 Scraped hole to 9120'. Conditioned mud. Made up and measured 2-7/8" tubing.
- 11/2 Ran Baker Model "K" retainer on 2-7/8" tubing and attempted to set retainer at 8793'. Retainer slipped up hole to 8733' and failed to hold. Backed off retainer. Time 8:00 AM. Ran second Baker Model "K" retainer on 2-7/8" tubing and set at 8731'. Applied pressure to holes at 8850'. Formation broke down at 1400# and took fluid at 15 cu. ft. per minute at 1300#. Squeezed 100 sacks Colton Hi-temperature cement below retainer. Final pressure 1400#. Cleared holes of cement with 10 cu. ft. of water and 20 cu. ft. of mud. Time 6:00 PM. B.J. Service. After four hours applied 5400# to holes at 8850' and held for 10 minutes but formation would not break down. Backed off retainer. Time 11:50 PM. B.J. Service.
- 11/3 Standing cemented. Ran Johnston combination gun and tester on 2-7/8" drill pipe and shot four 1/2" holes at 8848'. Set packer at 8802' with tailpipe to 8822'. Used 1000' water cushion. Opened tester at 9:47 PM. Had light, steady blow for 5 minutes, then dead for balance of 1 hour test. Recovered 45' net rise drilling fluid. Packers failed, test inconclusive; therefore, not approved by Division of Oil and Gas.
- 11/4 Ran Johnston combination gun and tester and shot two 1/2" holes at 8849' and set packer at 8822'. Used 1000' water cushion. Dropped two bars attempting to open tester at 6:30 PM. Had one puff, then dead for balance of 1 hour test. Pulled tester and found one foot of fine sand on top of trip valve. Reran tester and set packer at 8802' with perforated tailpipe to 8817'. Used 1000' water cushion. Opened tester at 1:40 AM (11/5/53). Had light steady blow for 3 minutes, then dead for balance of 1 hour test. Recovered 20' net rise of drilling fluid. Pressure bomb charts confirmed results of test. Water shutoff witnessed and approved by Division of Oil and Gas. Time 6:00 AM.
- 11/5 Cleaned out to 9128'. Spotted 25 barrels of oil at 9128'. Ran McCullough gun perforator and shot four 1/2" holes per foot from 9055' to 9095'; 9105' to 9128'.
- 11/6 Ran McCullough gun perforator and shot four 1/2" holes per foot from 8850' to 8920'; 8935' to 8980'; 8995' to 9055'. Scraped casing.
- 11/7 Laid down drill pipe. Removed rotary table and blowout preventor. Ran Guiberson 7" Type KV-30 circulating packer and 2" Otis side door choke nipple on 2-7/8" tubing and set packer at 8987'.
- 11/8 Connected up Christmas tree. Displaced drilling fluid with oil. Swabbed fluid to 3500'. Fluid level approximately 1000' at Midnight.
- 11/9 Swabbed and flowed circulating oil to sump to 1:00 PM, when production put in tanks. First 7 hours well flowed 371 barrels gross fluid, 312 barrels net oil, 16.0% cut, 19.6 wet gravity, 24/64" bean, all circulating oil. Remaining 10 hours (until 6:00 AM, 11-10-53), well flowed 223 barrels gross fluid, 188 barrels net oil, 16.0% cut, 19.6 wet gravity, 20/64" bean, all formation oil. 2545 MCF gas. 6:00 AM pressures 1250/1450#.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

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WELL NO.: Standard-Sesnon 1-#31, Aliso Canyon Field

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LOS ANGELES, CALIFORNIA

1953

11/10 In 24 hours well flowed 370 barrels gross fluid, 355 barrels net oil, 4.0% average cut (2.0% water and 2.0% mud), 1400# tubing pressure, 1550# casing pressure, 20/64" bean. Flowed 22.6 gravity oil through tubing for 6 hours until 12:00 Noon, then flowed 25.0 gravity oil through casing for 18 hours to 6:00 AM (10-11-53). 2848 MCF gas, 8022 gas-oil ratio.

11/11 In 24 hours well flowed 350 barrels gross fluid, 339 barrels net oil, 3.0% average cut (1.0% water and 2.0% mud), 23.6 gravity, 1250# tubing pressure, 1750# casing pressure, 18/64" bean. Flowed 8 hours through casing, then installed Otis blank side door choke and well flowed remaining 16 hours through tubing. Gas rate from 7:45 AM to 1:10 PM, 3174 MCF/D. Shut well in from 1:10 to 1:50 PM and ran 2" otis side door choke and set at 8983'. (Wire line indicator checked with setting depth of packer.) Started well flowing through tubing. Gas rate from 2:15 to 2:25 PM, 765 MCF/D; gas rate from 2:25 to 5:30 PM, 2443 MCF/D; 5:30 to 8:00 PM, 2848 MCF/D. Gas rate leveled off at 8:00 PM at 4136 MCF/D. Total gas, 2854 MCF in 24 hours.

	<u>Gross</u>	<u>Net</u>	<u>Cut</u>	<u>Gravity</u>	<u>Bean</u>	<u>Tubing Pressure</u>	<u>Casing Pressure</u>	<u>MCF Gas</u>	<u>GOR</u>	
11/12	In 24 hours well flowed through tubing:									
	309	303	2.0%	23.0	19/64	1200#	1750#	2551	8419	
	Pulled and reran Otis blank side door choke and obtained zonal segregation. Shut in casing and flowed well through tubing - Sesnon Zone only.									
11/13	In 24 hours well flowed through tubing - production from the Lower Sesnon Zone only.									
	123	122	0.6%	21.3	10/64-6/64"	575#	2050#	132	1073	
	10/64" bean for 1 1/2 hours; 6/64" bean for 10 hours.									
11/14	83	83	0.1%	21.7	6/64-8/64"	500#	2050#	48	578	
	6/64" bean for 7 hours; 8/64" bean for 17 hours.									
11/15	110	110	0.2%	21.3	6/64	600#	2050#	78	709	
11/16	120	119	0.6%	21.3	8/64					
	Gas rates as follows: Well on 12/64" bean from 9:00 AM to 4:00 PM produced 40 barrels net oil and 54 MCF gas in seven hours, gas-oil ratio 1350 cu.ft./bbl. Gas rates during seven hour period on 12/64" bean were as follows: 9:00 AM to 12:00 Noon, 121 MCF/day; 12:00 Noon to 12:30 PM, 196 MCF/day; 12:30 PM to 4:00 PM, 242 MCF/day. Reduced bean to 8/64" at 4:00 PM - well produced approximately 70 barrels net oil and 44 MCF gas in 15 hours, gas-oil ratio 629 cu.ft./bbl. Total production for 24 hours, 119 barrels net oil; 104 MCF gas; 874 cu.ft./bbl. gas-oil ratio.									
11/17	123	123	0.2%	21.1	8/64"-10/64"	700#	2025#	97	788	
	8/64" bean for 4 hours; 10/64" bean for 20 hours.									
11/18	185	185	0.2%	21.1	10/64-12/64	1175#	1925#	395	2135	
	10/64" bean for 4 hours, 12/64" bean for 20 hours.									
11/19	72	72	0.2%	21.4	12/64-8/64	750#	2050#	146	2028	
11/20	134	134	0.4%	21.1	10/64	850#	2050#	118	830	
11/21	93	93	0.2%	21.0	10/64	500#	2100#	65	699	
11/22	103	103	0.1%	21.0	10/64	625#	2050#	59	573	
11/23	51	51	0.1%	21.1	10/64	600#	2100#	35	686	
11/24	72	72	0.1%	21.2	8/64"	600#	2100#	42	583	
	Shut in for 2 hours, changing from Shaffer to Willis bean.									
11/25	113	113	0.1%	21.1	9/64	700#	2000#	107	9479	

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

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WELL NO.: Standard-Sesnon 1-#31, Aliso Canyon Field

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LOS ANGELES, CALIFORNIA

<u>1953</u>	<u>Gross</u>	<u>Net</u>	<u>Cut</u>	<u>Gravity</u>	<u>Bean</u>	<u>Tubing Pressure</u>	<u>Casing Pressure</u>	<u>Gas MCF</u>
11/26	134	134	0.1%	21.1	9/64	900#	1975#	147
11/27	124	124	0.3%	21.1	9/64	1100#	1975#	195
11/28	124	124	0.2%	21.1	9/64	1150#	1975#	230
11/29	124	124	0.2%	21.0	9/64	1250#	1975#	265
11/30	118	118	0.3%	21.0	9/64	1275#	1975#	275
12/1	120	120	0.3%	21.0	9/64	1300#	2000#	274
12/2	144	144	0.2%	21.0	9/64	1300#	1975#	267
12/3-12/6	Shut in for static pressure survey.							
12/7	67	67	0.2%	21.0	9/64	500#	2300#	42
12/8	78	78	0.2%	21.0	9/64	500#	2300#	40
12/9	139	139	0.2%	21.0	9/64	500#	2300#	157
12/10	82	82	0.2%	21.0	9/64	1000#	2050#	47
12/11	155	155	0.2%	21.0	9/64	1000#	2050#	271
12/12	175	175	0.2%	21.0	9/64	1000#	2050#	462
12/13	144	144	0.2%	21.0	9/64	1250#	1900#	436
12/14	134	134	0.2%	21.0	9/64	1250#	1900#	415
12/15	134	134	0.2%	21.0	9/64	1300#	1950#	409
12/16	123	123	0.2%	21.0	9/64	1375#	1950#	410
12/17	124	123	0.2%	21.0	9/64	1375#	1950#	373
12/18	134	131	2.1%	21.0	9/64	1375#	1950#	134
12/19	123	120	2.4%	21.0	9/64	1375#	1950#	123
12/20	118	115	2.4%	21.0	9/64	1375#	1950#	118
12/21	127	124	2.4%	21.0	9/64	1400#	1950#	399

CASING RECORD

11-3/4" 42 & 47# C 1708'
 7" 23, 26 & 29# C 9130' G.P. 4 1/4 Ft. 8850'-8920';
 8935'-8980'; 8995'-9095';
 9105'-9128'

TUBING RECORD

2-7/8" tubing w/2" Otis Choke & Guilberson Pkr. L 8987'

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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

No. T153-1316

Mr F C Foster

LOS ANGELES 15

Calif. November 9 19 53

~~Mr~~ Box Y

Los Nietos

Calif.

Agent for TIDE WATER ASSOCIATED OIL CO

121

DEAR SIR:

Your well No. "Standard-Sesnon 1" 31, 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 November 5, 1953. Mr. J. F. Matthews, Inspector, designated by the supervisor, was present as prescribed in Secs. 3222 and 3223, Ch. 93, Stat. 1939; there were also present R. Burns, Engineer;

R. Frantz, Drilling Foreman.

Shut-off data: 7 in. 23, 26, 29 lb. casing was cemented through perforations at 8850 ft. on November 2, 1953 in 10-5/8 in. hole with 100 sacks of cement of which ~~xxx~~ sacks was left in casing.

Casing record of well: 11-3/4" com. 1708'; 7" com. 9130', c.p. 8850', four 1/2" holes 8990', four 1/2" holes 8849', W.S.O.

Present depth 9130 ft. Bridged with cement from 9130 ft. to 9120 ft. Cleaned out to 9120 ft. for test. A pressure of 1000 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 9120 ft. A Johnston gun and tester was run into the hole on 2-7/8 in. drill pipe with 1000 ft. of water-cushion, and packer set at 8802 ft. with tailpiece to 8822 ft. Tester valve, with 3/8 in. bean, was opened at 1:40 a.m. and remained open for 1 hr. and ~~xxx~~ min. During this interval there was a light, steady blow for 3 min., and no blow thereafter.

INSPECTOR J. F. MATTHEWS VISITED THE WELL FROM 2:00 - 3:00 A.M., NOVEMBER 4, 1953, AND MR. FRANTZ REPORTED: 1. A 10-5/8" rotary hole was drilled from 1708' to 9130' of cen. 2. On October 29, 1953, 7", 23, 26, and 29 lb. casing was cemented at 9130' with 600 sacks 3. The 7" casing was shot-perforated with four 1/2" holes at 8990'. 4. The holes at 8990' tested dry on company test. 5. The 7" casing was shot-perforated with four 1/2" holes at 8850'. 6. The holes at 8850' tested wet. 7. The 7" casing was recemented as noted above.

THE INSPECTOR NOTED THAT the tester did not seat and two bullets of four used were left in the gun.

INSPECTOR J. F. MATTHEWS VISITED THE WELL FROM 8:00 - 9:00 P.M., NOVEMBER 4, 1953, AND MR. BURNS REPORTED: 1. The 7" casing was shot-perforated with two 1/2" holes at 8849'. 2. A Johnston tester was run into the hole on 2-7/8" drill pipe and packer set at 8802'. THE INSPECTOR NOTED THAT the tester plugged.

THE INSPECTOR ARRIVED AT THE WELL AT 4:00 A.M. AND MR. BURNS REPORTED THAT a Johnston tester was run as noted above.

THE INSPECTOR NOTED:

1. When the drill pipe was removed, 20' net of drilling fluid was found in the drill pipe above the tester, equivalent to 0.1 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hr.

The test was completed at 5:00 a.m.

THE 7" SHUT-OFF AT 8849' IS APPROVED.

JFM:OH

cc T L Wark
Jos Jensen
J R Boyer (2)

R. D. BUSH, State Oil and Gas Supervisor

By *R. D. Bush*, Deputy

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

Special Report on Operations Witnessed

No. T153-1278

Los Angeles 15
Calif. October 28 1953

Mr F C Foster
~~Box Y~~
Los Nietos _____ Calif.
Agent for TIDE WATER ASSOCIATED OIL CO

DEAR SIR:

Operations at your well No. Standard-Sesnon 1 ³¹ / Sec. 28, T. 3 N, R. 16 W, S B B. & M.,
Aliso Canyon Field, in Los Angeles County, were witnessed by
J. F. Foster, Inspector, representative of the supervisor,
on October 19, 1953. There was also present Wm. Herrian, Drilling Foreman;
C. E. Lindsay, Driller.

Casing Record <u>11-3/4" cem. 1708'. T.D. 8165'.</u>	Junk <u>None</u>

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

The inspector arrived at the well at 2:45 p.m. and Mr. Herrian reported:

1. A 15-1/2" rotary hole was drilled from the surface to 1708'.
2. On September 24, 1953, 11-3/4", 47 and 42 lb. casing was cemented at 1708' with 800 sacks of cement and diamix (1:1) and 130 sacks of cement.
3. An additional 20 sacks of cement was pumped in around the 11-3/4" casing through 1" pipe hanging at 84'.
4. A 10-5/8" rotary hole was drilled from 1708' to 8165'.

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

1. A Shaffer double cellar control gate for closing in the well with the drill pipe out of the hole, and for closing around the 4-1/2" drill pipe.
2. The controls for the above equipment were located outside the derrick.
3. A 2" mud fill-up line with a 2" high pressure Shaffer gate into the 11-3/4" casing below the above equipment.
4. A high pressure stopcock on the kelly.

The inspection was completed at 3:00 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

JFF:OH

cc J. R. Boyer (2)

T L Wark c/o Tide Water Assoc Oil Co
79 New Montgomery Street
San Francisco California

Mr Jos. Jensen
c/o Tide Water Assoc Oil Co
888 Pacific Electric Bldg
LOS ANGELES 14

R. D. BUSH
State Oil and Gas Supervisor

By R. H. Walling Deputy

G
M

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

No. P 153-1127

Los Angeles 15

Calif.

September 8

1953

Mr. F C Foster
Box Y
Los Angeles

Calif.

Agent for TIDE WATER ASSOCIATED OIL CO

DEAR SIR:

Your proposal to drill Well No. *Standard-Sesnon 1" 31

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

dated Sept. 1, 1953, received Sept. 2, 1953, has been examined in conjunction with records filed in this office.

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

THE NOTICE STATES

*The well is 2300.00' S., and 5541.00 feet W. from Station #84

Elevation of ground above sea level Approx. 2577 feet.

All depth measurements taken from top of derrick floor, which is _____ feet above ground.
We estimate that the first productive oil or gas sand should be encountered at a depth of about 8900 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 & O H-40, J-55	2500' *	Cemented
7"	23, 26, 29#	T & O H-80, J-55	9300'	Cemented

We propose to selectively gun perforate the Sesnon Zone for production.

*Casing will be set between 800' - 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. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed and approved by this division.
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) A test of the effectiveness of the 7" shut-off prior to perforating the casing for production.

FEK:OH

cc T L Vark
Jos Jensen
J R Boyver (2)

R. D. BUSH

State Oil and Gas Supervisor

By R. W. Walling Deputy

Blanket bond.

SEP 2 1953

LOS ANGELES, CALIFORNIA

FORM 105 (2-48)
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

037-00781

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

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

Los Nietos

Calif. September 1

1953

DIVISION OF OIL AND GAS

Los Angeles

Calif.

MAP 71A 9/3/53 7A	MAP BOOK 9/3/53	CASING	BOND	FORMS 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-Sesnon #1-31, Sec. 28, T. 3 N, R. 16 W, S. S.B., B. & M., Aliso Canyon Field, Los Angeles County.

Legal description of lease Standard-Sesnon Lease

The well is 2300.00' feet N. or S. and 551.00' feet E. or W. from Station #84

Elevation of ground above sea level approx. 2577 feet

All depth measurements taken from top of Derrick Floor, which is 8900' feet above ground.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 8900' 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 N-40, J-55	2500' *	Cemented
7"	23, 26, 29#	T & C N-80, J-55	9300'	Cemented
We propose to selectively gun perforate the Sesnon Zone for production.				

* Casing will be set between 800' - 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 "X", Los Nietos, Calif.

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

Telephone number Oxford 91051

By F. C. Trustees,
Agent