

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

R.D. Phillips, Agent
Southern Calif. Gas Company
810 S. Flower St.
Los Angeles, CA. 90017

Ventura, California
February 23, 1990

Your request, dated February 13, 1990, proposing to change the designation of wells in Sec. 27, T. 3N, R. 16W, SB 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:
IW 56 (037-21354)	"Porter" 32F (037-21354)
IW 57 (037-21355)	"Porter" 32D (037-21355)
IW 58 (037-21321)	"Fernando Fee" 32E (037-21321)
IW 60 (037-21276)	"Porter" 32B (037-21276)
IW 61 (037-21277)	"Porter" 32A (037-21277)
IW 62 (037-21313)	"Fernando Fee" 32F (037-21313)
IW 73 (037-21358)	"Fernando Fee" 32B (037-21358)
IW 75 (037-21356)	"Fernando Fee" 32D (037-21356)
IW 76 (037-21359)	"Fernando Fee" 32C (037-21359)
IW 77 (037-21323)	"Standard Sesnon" 25B (037-21323)
IW 78 (037-21360)	"Porter" 32C (037-21360)
IW 81 (037-21363)	"Porter" 32E (037-21363)

bb

M.G. MEFFERD, State Oil and Gas Supervisor

By 
Patrick J. Kinneaf, Deputy Supervisor

SOUTHERN CALIF GAS
 OPERATOR AG. LITE
 LSE & NO. FW 61
 MAP NO. 150

INTENTION	<u>dwell</u>	<u>run under lines</u>	<u>rework</u>		
NOTICE DATED	<u>7-10-72</u>	<u>6-5-73</u>	<u>7-20-77</u>		
P-REPORT DATED	<u>172-852</u>	<u>273-249</u>	<u>277-277</u> <u>8-2-77</u>		
CHECKED BY/DATE					
MAP LETTER DATED	<u>3-31-73</u>	<u>—</u>	<u>change</u>		
SYMBOL	<u>⊕</u>	<u>—</u>	<u>change</u>		

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

NOTICE	<u>7-13-72</u>	<u>4-8-73</u>	<u>8-27-77</u>	<u>X</u>		
HISTORY	<u>3-26-73</u>	<u>10-31-73</u>	<u>9-12-77</u>	<u>X</u>		
SUMMARY	<u>3-26-73</u>					
IBS/ELECTRIC LOG	<u>6-11-73</u>					
DIRECTIONAL SURV.	<u>6-11-73</u>					
CORE/SWS DESCIP.	<u>—</u>					
DIPMETER RESULTS	<u>—</u>					
<u>Therm-Neut Decay</u>			<u>12-22-78</u>			
OTHER	<u>—</u>					
RECORDS COMPLETE	<u>6-11-73</u> <u>PRW</u>	<u>10-31-73</u> <u>X</u>	<u>9-12-77</u> <u>OK</u>	<u>OK</u>		

ENGINEERING CHECK
 T-REPORTS _____
 OPERATOR'S NAME _____
 WELL DESIGNATION _____
 LOC. & ELEVATION _____
 SIGNATURE _____
 SURFACE INSPECTION _____
 FINAL LETTER OK _____

CLERICAL CHECK
 POSTED TO 121 _____ 170 MAILED _____
 FINAL LETTER MAILED _____
 RELEASE _____
 BOND _____

REMARKS TDT Comp + Core Reservoir Analysis / received 10/19/78

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

DIVISION OF OIL AND GAS
RECEIVED
SEP 12 1977
SANTA PAULA, CALIFORNIA

History of Oil or Gas Well

Operator Southern California Gas Company Field or County Aliso Canyon
Well name and No. I.W. #61, Sec. 27, T 3N, R 16, S. B.B. & M.
A.P.I. well No. 037-21277 Name _____ Title Agent
Date August 3, 19 77 (Person submitting report) (President, Secretary or Agent)

Signature *R. M. Wagner Jr.*

P.O. BOX 3249 Terminal Annex, Los Angeles, CA., 90051 (213) 689-3561
(Address) (Telephone Number)

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

Date	
4-27-77	Killed well with 70# polymer drilling fluid.
8-18-77	Moved off I.W. #60 and rigged up (C.P.S. Rig #D-3) on I.W. #61. Circulated 70#/cu.ft. drilling fluid out of well with 85# brine-polymer drilling fluid. Changed 40-gallon accumulator to 60-gallon accumulator. Changed double-gate B.O.P.E.
8-19-77	Circulated hole (lost a total of 280 bbls of fluid during circulation). Installed tubing hanger plug and removed Xmas tree. Install 8" 5000 psi Class III BOPE. Using H & H pump tested BOPE w/water as follows: Blind Rams at 4000 psi for 20 minutes. O.K. 4 1/2" pipe rams at 4000 psi for 20 minutes. O.K. Shaffer bag on 4 1/2" at 3000 psi for 20 minutes. O.K. Using Newsco tested BOPE with nitrogen as follows: Blind Rams at 4000 psi for 20 minutes. O.K. 4 1/2" pipe rams at 4000 psi for 20 minutes. O.K. Shaffer bag on 4 1/2" at 3000 psi for 20 minutes. O.K. BOPE and tests approved by D.O.G.
8-20-77	Rigged up to lay down 4 1/2" tubing. Unlanded packer at 7170'. Worked packer for 2 1/2 hours. Rigged up and circulated for one-half hour. Worked packer for one-half hour. Pulled and laid down 4 1/2" tubing. (155 joints R-2).
8-21-77	Rig and crew idle.
8-22-77	Finished pulling 4 1/2" 11.6# J-55 R-2 out of hole. Laid down 8 5/8" Baker Lok-set packer, 4 1/2" Udell ported sleeve and 4 1/2" Udell landing sleeve. Loaded out 221 joints of 4 1/2" to Pico Rivera. Off-loaded 238 joints 2 7/8" EUE tubing, changed pipe rams from 4 1/2" to 2 7/8". Picked up 7 5/8" bit, 8 5/8" Shorty casing scraper, float valve and measured in hole to top of 6 5/8" liner at 7183'. Using H & H pump truck, tested 2 7/8" pipe rams at 4000 psi for 20 minutes - O.K.

8-23-77 Pulled out of well. Laid down 7 5/8" bit and 8 5/8" Shorty casing scraper. Ran in hole with 5 5/8" bit, 6 5/8" Shorty casing scraper and float valve to top of 5" liner at 7261'. Pulled out of well. Ran in hole with 4 1/8" bit and 5" casing scraper and float valve. Tried to get into 5" liner at 7261'. Could not get in liner. Rigged up Guiberson stripper and power swivel. Could not circulate.

8-24-77 Pulled up and worked pipe in 8 5/8" casing and established circulation. Using power swivel, cleaned out inside 5" liner from 7261' to 7563'. Rigged up Halliburton and circulated hole.

8-25-77 Pulled out of hole. Laid down 2 3/8" EUE tubing. Ran in hole with 6 5/8" Baker Model "B" Lok-Set bridge plug and set plug at 7250'. Tested bridge plug with 1500 psi for 20 minutes - O.K. Changed over circulating system to fresh water with surfactant, with pipe at 7240'. Pulled out of hole. Ran in hole with 8 5/8" Baker Model "C" fullbore cement retainer to 5400'.

8-26-77 Set Baker 8 5/8" Model "C" full bore cement retainer at 5400'. Tested casing using Halliburton pump truck with water and surfactant as follows:

5400'	to	7250'	with	1900	psi	for	60	minutes	-	O.K.
5400'	"	surface	with	2100	psi	for	60	minutes	-	O.K.
4800'	"	"	"	2300	"	"	"	"	"	O.K.
4500'	"	"	"	2500	"	"	"	"	"	O.K.
4000'	"	"	"	2700	"	"	"	"	"	O.K.
3500'	"	"	"	2900	"	"	"	"	"	O.K.
3000'	"	"	"	3100	"	"	"	"	"	O.K.
2500'	"	"	"	3300	"	"	"	"	"	O.K.
2000'	"	"	"	3600	"	"	"	"	"	O.K.
1100'	"	"	"	4000	"	"	"	"	"	N.G.

DIVISION OF OIL AND GAS
 RECEIVED
 SEP 12 1977
 SANTA PAULA, CALIFORNIA

Pipe rams leaked on 4000 psi test.

8-27-77 Changed 2 7/8" Shaffer pipe rams. Pulled up and set Baker 8 5/8" Model "C" fullbore cement retainer at 1100'. Tested casing under 4000 psi using Halliburton pump truck and water with surfactant for one hour - O.K. Ran in hole with retrieving tool to 7160'. Changed circulating system to 85# brine-polymer drilling fluid. Retrieved Baker 6 5/8" Model "B" bridge plug from 7250'. Rigged up GO-International Wireline. Set 8 5/8" Baker Retrieval-"D" packer at 7215'. Rigged down GO. Ran in to 2000'.

8-28-77 Rig and crew idle.

8-29-77 Pulled out of well. Rigged up Hydro-test. Tested bottom hole assembly (seals, NO-GO, 10' & 20' blast joints) At 5000 psi for 5 minutes - O.K. Ran in hole changing collars, using Baker Seal thread lubricant, drifting tubing at 2.347", and testing tubing to 5000 psi for one minute. Galled 9 joints. 161 joints run.

Well History for I. W. #61 - Aliso Canyon

DIVISION OF OIL AND GAS
RECEIVED
PAGE 3

SEP 12 1977

8-30-77

Completed drifting and hydrotesting in well. Spaced out tubing. Landed tubing with 8000# on packer at 7215'. Checked latch in with 25,000# in tension over hook load of 42,000#. Installed Christmas tree. Tested tubing hanger lower seal and lower upper seal under 5000 psi for 20 minutes - O.K. Tried to test Christmas tree - both valves leaked. Greased valves. WKM power actuated valve leaked. Re-greased WKM valve - still leaked.

8-31-77

Exchanged and installed 2" WKM tubing withdrawal valve and actuator. Tested Christmas tree and tubing hanger lower seal to lower extended neck seal - both under 5000 psi for 20 minutes - O.K. Changed circulating system to lease salt water. Rigged up Archer-Reed and installed Camco "CA" plug in "D" nipple at 7205'. Using H & H pump, tested packer and packer seal assembly under 1800 psi for 20 minutes - O.K. Pulled equalizing prong. Latched onto fishing neck and tried to pull "CA" plug - worked plug for two hours. Sheared release pins. Preparing to rig up braided line. ("CA" plug has large equalizing ports).

9-1-77

Bled casing and tubing down from 1850 psi to 700 psi. Rigged up Archer-Reed and recovered "CA" plug from Camco "D" nipple at 7205'. Fishing neck of "CA" plug packed solid (including top equalizing ports) with fine oily clay and sand. Installed blind flanged and closed tubing and casing valves. Released C.P.S. Rig #D-3 at 10:30 A.M. (9-1-77).

nd.

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

Report on Operations

No. T 277-273

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

Santa Paula, Calif.
Oct. 11, 1977

DEAR SIR:

Operations at well No. IV 61, API No. 037-21277, Sec. 27, T. 3N R. 16W,
S.R., B & M. Aliso Canyon Field, in Los Angeles County, were witnessed
on 8/19/77. Mr. P. R. Wyle, representative of the supervisor was
present from 1830 to 2200. There were also present C. E. Downey, foreman

Present condition of well: No additions to the casing record since proposal dated 7/20/77.

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

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

b

M. G. METTERT
*JOHN F. MATTHEWS, JR.
State Oil and Gas Supervisor

By John L. Hardoin Deputy

REPORT ON PROPOSED OPERATIONS

..... Santa Paula,, California

..... August 3, 1977

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

Your proposal to rework gas storage well **IV 61**
(Name and number)

....., A.P.I. No. 037-21277, Section 27, T. 3N, R. 16W

S.B. B. & M., Aliso Canyon, field, Los Angeles, County,

dated 7-20-77, received 8-2-77, 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)
State Oil and Gas Supervisor

By John L. Hardoin
Deputy Supervisor

John L. Hardoin

DIVISION OF OIL AND GAS
RECEIVED

Aug 2 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 PAULA, CALIFORNIA

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
<i>BB</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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. I. W. #61, API No. _____, Sec. 27, 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. 7577' (plug at 7570')
- Complete casing record, including plugs and perforations:
 - 13 3/8" cemented 731'
 - 8 5/8" cemented 7260' - WSO 7208' - squeezed, but not re-tested.
 - 392' 6 5/8" cemented 7575' - plug at 7570'
shot four 1/2" holes per foot 7446'-7436'; 7428'-7352'; and 7328'-7292'
 - 302' 5" landed 7563' - top 7261'
slotted 7273'-7453' - 30 and 20 mesh

- Present producing zone name SESNON Zone in which well is to be recompleted _____
- Present zone pressure 3500 psi New zone pressure _____
- Last produced _____ (Date) Gas Storage Well (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 and rig up. Kill well. Install B.O.P.E. and pressure test.
- Pull and lay down 4 1/2" tubing. Pick up 2 7/8" tubing. Clean out to 7563'. Pressure test 8 5/8" casing.
- Perform any remedial work indicated by pressure test.
- Set packer. Run tubing with down-hole safety system.
- Return well to gas storage operation.

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. (Date) 7-20-77
(Name)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

I. W. #61 - PROGRAM - ALISO CANYON

CASING WITHDRAWAL AND INJECTION

Take all measurements from K. B. 12' above ground

PRESENT CONDITIONS:

	13 3/8"	cemented 731'
	8 5/8"	cemented 7260', WSO 7208', squeezed not retested
392'	6 5/8"	cemented 7575', no WSO's shot four 1/2" holes per foot 7446'-7436' 7438' - 7352' and 7328' - 7292' - top 7183'
302'	5"	Landed 7563', top 7261' slotted 7273' - 7453, 18# J-55

CASING DETAILS:

				<u>No Safety Factor</u>	
				<u>Burst</u>	<u>Collapse</u>
8 5/8"	36#	K-55	0-5848	4460	3420
8 5/8"	36#	N-80	5848'-7260	6490	4470
8 5/8"	28#	K-55	7183'-7575'	6050	5450

TUBING DETAIL:

Baker lock set 8 5/8" packer 7170'
4 1/2" 11.6# K-55 8rd LT & C
Udell landing nipple and ported nipple
(see attached detail)

PROGRAM

1. Move in and rig up
2. Kill well with 83#/cu. ft. brine-polymer drilling fluid. Pressure test well head seals.
3. Set back-pressure valve in doughnut. Remove Christmas tree and install B.O.P.E. Class III 5000 pse. Pressure test complete shut-off and pipe rams with water and nitrogen to 3000 pse. Use float valve in tubing.
4. Unseat packer, lay down 4 1/2 tubing. Pick up 2 7/8" tubing. Clean out to top of 6 5/8" liner at 7183". Clean out to 7261" - top of 5". Run 4 1/8" bit casing scraper and clean out to 7563'.
5. Set bridge plug at 7250'. Test bridge plug with rig pump. Circulate polymer fluid out of well with fresh water treated with surface tension agent. Pressure test casing, using cement retainer and cement pump truck equipped with calibrated pressure chart and pressure gauge, as follows:

5400'	to	7250'	with	1900 psi	for	60	minutes
Surface	"	5400'	"	2100 psi	"	60	"
"	"	4800'	"	2300 psi	"	60	"
"	"	4500'	"	2500 psi	"	60	"
"	"	4000'	"	2700 psi	"	60	"
"	"	3500'	"	2900 psi	"	60	"
"	"	3000'	"	3100 psi	"	60	"
"	"	2500'	"	3300 psi	"	60	"
"	"	2000'	"	3600 psi	"	60	"
"	"	1100	"	4000 psi	"	60	"

6. Change to polymer fluid. Perform any remedial work indicated by pressure testing. Recover bridge plug.
7. Run Baker retrieva-D packer on wireline and use reference collars. Set packer near 7230'.
8. Run 2 7/8" 8rd EUE tubing, change collars, clean pins, apply Baker Seal and hydrotest tubing to 5000 psi for 60 minutes. Tubing to include:
 - Baker production tube
 - Baker - four seals
 - Baker latch-in locator
 - Camco 10' blast joint
 - Camco "NOGO" nipple 1.81" 2 7/8" 8rd
 - Camco 20' blast joint
 - Camco annular flow safety valve
 - one joint 2 7/8" tubing - Camco MMG gas lift mandrel
9. Land tubing on packer with a maximum of 10,000#. Pull 25,000# over weight of tubing to check latch.
10. Set plug in doughnut. Remove B.O.P.E. and reinstall Christmas tree. Pressure test Christmas tree to 5000 psi. Also pressure test wellhead seals to 3500 psi.
11. Circulate drilling fluid out of well with waste salt water. Set tubing plug in NOGO nipple. Pressure test seals and packer to 1800 psi. Remove plug and release rig.

G. C. ABRAHAMSON

- cc: Rig Supervisor
- Relief Supervisor
- Contract Pusher (2)
- Book Copy
- D.O.G. ✓
- B. Jones
- D. Smiley
- J. Melton

- D. Justice)
- M. Grijalva)
- Well Copy
- Spare Copy

7/21/77
ACS/nd

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Pacific Lighting Service Company FIELD Aliso CanyonWell No. IW 61, Sec. 27, T. 3N, R. 16W, S.B. B. & M.Date October 29, 19 73Signed *P. B. Maguidup*P. O. Box 54790, Terminal AnnexLos Angeles, California 90054 (213) 689-3561Title 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

- 6-6 Killed well with 670 barrels of workover fluid. Obtained full circulation at 6 PM. Mixed additional mud to provide 420 barrels reserve (calculated casing and liner capacity).
- 6-7 Removed Xmas tree. Installed BOPE. Tested Hydril bag with 1500 psig--Ok. Released Baker Lok-Set packer.
- 6-8 Pulled and laid down 4-1/2" tubing. Recovered Udell ported sleeve, Udell landing sleeve and Baker Lok-Set packer.
- 6-9 Picked up 2-7/8" 6.5# EU tubing and ran in hole with 5-5/8" bit & scraper for 6-5/8" liner. Found top of sand fill at 7428' (bottom of 6-5/8" liner at 7575'). Cleaned out to bottom and circulated for four hours.
- 6-10 Idle - Sunday.
- 6-11 Ran back in with 5-5/8" bit and scraper for 6-5/8" liner from top of liner to bottom of liner at 7575'. Found no fill after standing for approximately 3 1/2 hours. Ran 5", 18#, J-55, new, seamless, Security flush joint liner which stopped at 7563' (12' off bottom).
Liner detail as follows:

7261'-7273'	(12')	Blank with Burns lead seal adapter on top
7273'-7283'	(10')	30M x 2" slots, 28 rows on 6" centers
7283'-7453'	(170')	20M x 2" slots, 28 rows on 6" centers
7453'-7563'	(110')	Blank inc. baffle and bullnose on bottom
TOTAL	302'	

Expanded lead seal and hydrostatically tested same with up cups stung through liner top on setting tool with 550 psig for 4 minutes using rig pump.

- 1973
- 6-12 Pulled 2-7/8" tubing and recovered Burns setting and testing tools. Ran redressed Baker Lok-Set packer, Udell landing sleeve and Udell ported sleeve on 4-1/2" 11.60#, K-55, R-2, 8rd., LT&C casing (as tubing).
- 6-13 Baker Lok-Set packer would not set. Pulled up one joint but packer still would not set. Ran redressed packer on 4-1/2" tubing.
- 6-14 Set packer with 24,000# compression (string weight 80,000#). Tubing detail attached. Removed BOPE and installed Xmas tree.
- 6-15 Unloaded well.

Condition of well following workover concluded 6-15-73.

- 13-3/8" 48# H-40 c. 731'.
8-5/8" 36# K-55 & N-80 c. 7260'. WSO at 7208'.
6-5/8" 27.65#, K-55 c. 7575' (top at 7183') perforated with four
1/2" jets per foot:
7292'-7328' (36')
7352'-7428' (76')
7436'-7446' (10')
- 5" 17.93#, J-55 ldd. 7563' (top at 7261') perforated 30M x 2",
28R, 6"C 7273'-7283' and 20M x 2", 28R, 6"C 7283'-7453'.

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 273-249

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

Santa Paula
June 12, 1973
Calif.

(037-21277)

DEAR SIR:

Your proposal to alter casing Well No. IW 61
Section 27 T. 3N, R. 16W S.B. B. & M., Aliso Canyon Field, Los Angeles County,
dated 6/5/73, received 6/8/73, 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
DER:a
cc: Operator

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

By LOP Pitman, Deputy

DIVISION OF OIL AND GAS

JUN 8 1973

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. June 5, 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. IW 61
(Cross out unnecessary words)

Sec. 27, 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. 7577' plugged depth 7570' (inside 6-5/8" liner)
- Complete casing record, including plugs:

13-3/8" 18#, H-40 c. 731'
 8-5/8" 36#, K-55 & N-80 c. 7260', WSO at 7208'
 6-5/8" 27.65#, K-55 c. 7575' (top at 7183')

Perforated with four 1/2" jet h.p.f.
 7292'-7328' (36')
 7352'-7428' (76')
 7436'-7446' (10')

3. Last produced. (GAS STORAGE WELL)
 (Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

The proposed work is as follows:

- Clean out well to 7570'.
- Install a 5" flush joint, slot perforated liner for sand control purposes. Approximate liner interval, 7270'-7570'. Approximate slotted interval, 7280'-7460'.

WAP	MAP Date	Operator	11A	11B
		<i>BS</i>	✓	✓

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. Magruder, Jr.
 P. S. Magruder, Jr. - Agent

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

RECEIVED

MAR 26 1973

Operator Pacific Lighting Service Co. Well No. IW 61 LONG BEACH, CALIFORNIA

Sec. 27, T. 3N, R. 16W, SB B. & M. Aliso Canyon Field Los Angeles County.

Location From Station 84 1733.37' south and 1292.81 west

(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 2075.47 feet USGS

All depth measurements taken from top of kelly bushing which is 12 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date March 21, 1973

Signed B. F. Jones

E. A. Olson
(Engineer or Geologist)

B. F. Jones
(Superintendent)

Title Agent
(President, Secretary or Agent)

	GEOLOGICAL MARKERS	DEPTH
Commenced drilling <u>August 3, 1972</u>		
Completed drilling <u>August 29, 1972</u>	<u>Top Porter Zone</u>	<u>5320'</u>
Total depth <u>7577'</u> Plugged depth <u>7570'</u>	<u>Top Sesnon Zone S4</u>	<u>7264'</u>
Junk <u>None</u>		

Geologic age at total depth: Miocene

Commenced producing _____ (Date) Flowing/gas lift/pumping (Cross out unnecessary words) Name of producing zone Sesnon

Initial production
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
GAS STORAGE WELL					

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 perforation
<u>3-3/8"</u>	<u>731'</u>	<u>sfc.</u>	<u>48#</u>	<u>N</u>	<u>S</u>	<u>H-40</u>	<u>17-1/2"</u>	<u>565</u>	
<u>8-5/8"</u>	<u>7260'</u>	<u>sfc.</u>	<u>36#</u>	<u>N</u>	<u>S</u>	<u>N-80 & K-55</u>	<u>11"</u>	<u>150 - 600</u>	<u>7208'</u>
<u>6-5/8"</u>	<u>7575'</u>	<u>7183'</u>	<u>28#</u>	<u>N</u>	<u>S</u>	<u>K-55</u>	<u>7-5/8"</u>	<u>75</u>	

PERFORATED CASING

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

8-5/8" - 4-1/2" jet holes for WSO at 7208'. Squeezed with cement.
6-5/8" - Perforated with 4-1/2" jet holes per foot 7352-7428', 7436-7446', 7292-7328'.

Was the well directionally drilled? Yes Electrical Log Depths 7278' & 7577' (Attach Copy of Log)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS
RECEIVED

DIVISION OF OIL AND GAS

MAR 26 1973

History of Oil or Gas Well

OPERATOR Pacific Lighting Service Co. FIELD Aliso Canyon LONG BEACH, CALIFORNIA

Well No. IW 61, Sec. 27, T. 3N, R. 16W, SB B. & M.

Date March 21, 1973 Signed *A. S. Maguadon Jr.*

P.O. Box 54790, Terminal Annex
Los Angeles, CA 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.

1972

Date

Well drilled by Camay Drilling Co., Contractor, rig #18.
All measurements taken from top of kelly bushing which was
12' above mat.

- 8-3 Spudded well at 11:00 pm and drilled 11" hole from 14' to 30'.
- 8-4 Drilled and surveyed 11" hole to 380'.
- 8-5 Drilled and surveyed 11" hole to 970'.
- 8-6 Drilled and surveyed 11" hole to 1220'. Opened 11" hole to 17-1/2" from 14' to 303'.
- 8-7 Opened 11" hole to 722'.
- 8-8 Opened 11" hole to 731'. TO CEMENT 13-3/8" SURFACE CASING:
Ran 13 joints or 735' of 13-3/8", H-40, R-3, 8 rd, ST&C, new seamless casing and cemented same at 731', through stab in tool run on 5" drill pipe set in shoe. Used 565 sacks of Class "G" cement.
- 8-9 Cut and recover 13-3/8" casing, weld on head and test to 3000# OK. Install GK Hydrill and double Shaffer hydraulic BOP. Installing accumulator line and work on cellar.
- 8-10 Tested BOP with 1000# pressure. Test witnessed and approved by Engineer for Division of Oil & Gas.
Drilled out cement stringers 669' to 731', drilled out shoe and drilled and surveyed 11" hole to 1814'.
Mud: 72#, 35 sec., 10.0 cc.
- 8-11 Drilled and surveyed 11" hole to 2450'.
Mud: 75#, 47 sec., 10.4 cc.
- 8-12 Drilled and surveyed 11" hole to 2903'.
Mud: 70#, 43 sec., 8.8 cc.

DIVISION OF OIL AND GAS
RECEIVED

MAR 26 1973

LONG BEACH, CALIFORNIA

1972

- 8-13 Drilled and surveyed 11" hole to 3390'.
Mud: 71#, 51 sec., 8.6 cc.
- 8-14 Drilled and surveyed 11" hole to 3907'.
Mud: 70-1/2#, 43 sec., 10 cc.
- 8-15 Power drill 11" hole 3907' to 3976'. Reamed 3907' to 3976'
and drilled and surveyed 11" hole to 4162'.
Mud: 70#, 43 sec., 8.9 cc.
- 8-16 Drilled and surveyed 11" hole to 4475'.
Mud: 70#, 41 sec., 9.4 cc.
- 8-17 Drilled and surveyed 11" hole to 5095'.
Mud: 70#, 42 sec., 8.4 cc.
- 8-18 Drilled and surveyed 11" hole to 5375'. Reamed 5230' to 5289'
and drilled to 5537'.
Mud: 70-1/2#, 47 sec., 8.4 cc.
- 8-19 Drilled and surveyed 11" hole to 5760'. Reamed 5620' - 5670'
on bit change.
Mud: 70#, 38 sec., 8.6 cc., 6% total solids.
- 8-20 Drilled and surveyed 11" hole to 6266'. Reamed 5940' - 5970'
on bit change.
Mud: 70#, 38 sec., 8.8 cc., 6% total solids.
- 8-21 Drilled and surveyed 11" hole to 6823'.
Mud: 69#, 44 sec., 8.6 cc., 6% total solids.
- 8-22 Drilled and surveyed 11" hole to 6973'. Worked pipe through
tight spot and reamed tight hole 6400' to 6814'.
Mud: 71#, 38 sec., 7.4 cc., 6-1/2% total solids.
- 8-23 Reamed tight hole 6950' to 6972' on bit change. Drilled and
surveyed 11" hole to 7150'. Ran Dresser-Atlas Induction Electrolog
with hole caliper and recorded from 731' to 7136'.
Mud: 71#, 37 sec., 8.0 cc., 6% total solids.
- 8-24 Reamed from 7110' to 7150' on bit change and drilled and
surveyed 11" hole to 7280'. Ran Dresser-Atlas Induction
Electrolog with hole caliper and recorded 7155' to 7278'.
Mud: 70#, 42 sec., 8.0 cc., 6% total solids.

1972

- 8-25 TO CEMENT 8-5/8" CASING: Ran 184 joints or 7277' of 8-5/8", 36#, N-80 & K-55, R-3, buttress thread, new seamless casing and cemented same at 7260' with 600 sacks Class "G" cement. Preceded cement with 100 cu ft of water and displaced with 2523 cu ft of mud. Casing fitted on bottom with Baker fill-up shoe, on top of first joint with baffel collar and one centralizer 10' above shoe and one centralizer on each of next six joints. Cement in place at 2:45 am, 8-25-72. Used HOWCO bulk cement and power. Cut and recovered 8-5/8" casing, landed and installed secondary packing. Re-installed BOP. Measure in hole and drill out baffle at 7220'.
- 8-26 TO TEST WATER SHUT OFF-ON HOLES IN 8-5/8" CASING AT 7208': Ran Cook combination gun and tester on 5" drill pipe and shot four 1/2" jet holes at 7208'. Set packer at 7093' and opened tool at 4:25 am. Closed tool at 5:20 am. Recovered 110' rise. Water shut-off approved by Division of Oil & Gas.
- TO SQUEEZE HOLES IN 8-5/8" CASING AT 7208' WITH CEMENT: Holes broke down at 2800# and took fluid at 10 cu ft per minute rate under 2400# pressure. Pumped 75 cu ft water, 75 sacks cement followed by 15 cu ft of water and 589 cu ft mud, then closed tool and displaced additional 111 cu ft of mud in stages to get final pressure of 3000#. Used HOWCO bulk cement & power.
- 8-27 Located top of cement at 7134' and drilled out to 7212'. Would not hold pressure.
- 8-28 TO RE-SQUEEZE HOLES AT 7208' WITH CEMENT: Ran Halliburton RTTS on 5" drill pipe and set tool at 7125'. Holes broke down under 2800# pressure and took fluid at 10 cu ft per minute rate under 2000# pressure. Squeezed with 75 sacks Class "G" cement treated with 2% calcium chloride. Cement in place at 6:00 am. Ran 7-5/8" bit and located cement at 7148' and drilled out to 7229'. Closed rams and holes held 1600# pressure. Drill out shoe at 7260' and clean out to 7281'.
- 8-29 Drilled 7-5/8" hole to 7577', TOTAL DEPTH.
- 8-30 Ran Dresser-Atlas suite of logs. Condition hole to run liner.

1972

- 8-31 TO CEMENT 6-5/8" BLANK LINER: Ran 9 joints or 392' of 6-5/8", 27.65#, K-55, R-3, Security flush joint, new seamless blank casing on 5" drill pipe and liner cementing tool and hung same at 7183'. Cemented same at 7575' with 75 sacks Class "G" cement. Preceded cement with 100 cu ft of water and displaced with 5 cu ft of water and 720 cu ft of mud, to bump plug at liner shoe under 2500# final pressure. Cement in place at 4:00 am. Used HOWCO bulk cement and power. Picked up 2-7/8" tubing and ran into 7405' where same plugged.
- 9-1 Ran tubing stinger on drill pipe and displaced mud in hole with salt water.
- 9-2 Lay down drill pipe & tubing, remove BOP and install Shaffer tubing head and tree.
- 9-5 Remove Shaffer tubing head and tree, re-install BOP and pick up 5" and 3-1/2" drill pipe.
- 9-6 Measure in hole with 5-5/8" bit on drilling assembly and drill out cement from 7380' to 7570'. Pressure test to 1000# pressure OK.
Ran Dresser-Atlas logs.
- 9-7 Layed down drill pipe removed BOP and install Shaffer tubing head and tree. Rig Released 2:00 PM 9-7-72.
- 10-25 Moved in CPS "D" type rig. Well full of lease salt water. Installed Class III BOPE and tested to 1600 psi, OK. Attempted to run Dresser-Atlas Compensated Density log but logging tool stopped at 7150', 33' above top of 6-5/8" liner.
- 10-26 Picked up 5-5/8" bit and 6-5/8" scraper on one joint of tubing when tongs failed.
Idle remainder of day.
- 10-27 Picked up 2-7/8" 6.5# R-2, N-80 Seal-lok tubing and ran 5-5/8" bit and 6-5/8" scraper to bottom of 6-5/8" liner at 7575' finding no fill.
- 10-28 Ran Dresser-Atlas Compensated Density log and Neutron Lifetime log.
- 10-29 Idle
- 10-30 Ran Baker full bore packer to 4521' and pressure tested 8-5/8" casing from 4521' to surface at 3400 psi for 20 minutes, OK. Using Dresser-Atlas 4" hollow gun and NCF IV 17 gram Golden Jet, perforated four 1/2" holes per foot from 7428' to 7352' and 7446' to 7436'.

1972

10-31 Ran Halliburton formation test tool on 2-7/8" tubing. Set packer at 7219' with tail to 7235' with 1/2" bean in test tool. Flowed well for clean up from 6:09 am to 8:45 am. Shut-in at surface from 8:45 am to 11:00 am. Flowed well from 11:00 am to 6:00 pm through 5/8" bean at surface. Final flowing pressure at surface 645 psig, maximum gas rate 4930 Mcf/day, 7 hours fluid 18.3 barrels gross, 9.0 barrels net oil. Shut-in at test tool at 6:00 pm.

11-1 Pulled tester from 7219'. Set Baker Lok-set bridge plug at 7342'. Using Dresser-Atlas 4" hollow gun and NCF IV 17 gram Golden Jet, perforated four 1/2" holes per foot from 7328' to 7292'.

11-2 Ran Halliburton formation test tool and set packer at 7219' with tail to 7235' with 1/2" bean in test tool. Opened test tool at 6:00 am and flowed for clean up period until 8:30 am. Shut-in at surface at 8:30 am, pressure built up to 1258 psi in 15 minutes and stayed at 1258 psi until 9:30 am. Opened at surface on 1" bean at 9:30 am and test flowed until 6:00 pm. Shut-in at test tool at 6:00 pm. Maximum gas rate 5591 Mcf/day, fluid in 8-1/2 hours 9.8 barrels gross, 6.5 barrels net oil.

11-3 Pulled test tool. Retrieved bridge plug from 7342' after checking top of fill at 7567'. Ran 8-5/8" positive scraper to top of 6-5/8" liner at 7183'. Set Baker 8-5/8" Model "D" packer at 7173'.

11-4 Ran 2-7/8" 6.4# N-80 R-2 Seal-lock tubing with 1/4" control line, Page 3-1/2" RTL tubing safety valve with special ported nipple and five Baker seal units. Stabbed into packer and landed tubing with 15,000# on packer.

TUBING DETAIL

2-7/8" N-80 Seal-lock fatigue nipple	0.56'
2-7/8" N-80 Seal-lock pup joint	2.10
2-7/8" N-80 Seal-lock pup joint	6.15
2-7/8" N-80 Seal-lock pup joint	10.05
232 Joints N-80 Seal-lock	7144.67
2-7/8" Seal-lock by 2-7/8" 8-R X-over	1.10
3-1/2" Page RTL tubing safety valve with special ported nipple	5.45
3-1/2" 8-R by 2-7/8" 8-R J-55 X-over	1.10
Baker Locator Sub and 5 seal units	
	<hr/>
Over-all length	7171.18'

11-5 Idle

IW 61 History (cont'd)

Page 6

1972

11-6 Removed BOPE. Tested 1/4" control line through tubing hanger at 5000 psi for 20 minutes, OK. Installed and tested production head to 4500 psi, OK. Re-tested 1/4" control line through port in production head flange at 5000 psi for 20 minutes, OK.

Released rig.

11-7 Unload fluid from well down to packer at 7173' with nitrogen. Well standing idle awaiting installation of flow lines.

SURVEY RECORD

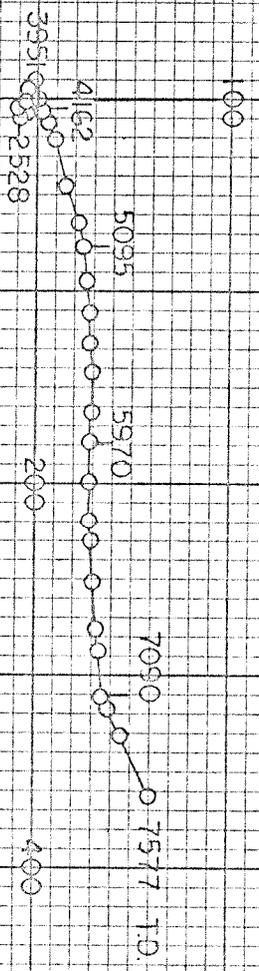
JOB NO. 519 DATE 8-25-1972

MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES					REMARKS
					NORTH	SOUTH	EAST	WEST	WEST	
60	.15	60 00	36	N 62 W						
155	.30	155 00	83	N 62 W	12 51					83 95
248	.30	248 00	81	N 54 W	99					1 62
321	.30	321 00	64	N 64 W	I 27					2 30
441	.15	441 00	53	S 70 W	I 09					2 70
535	.30	535 00	89	S 75 E	86					I 93
627	I.00	625 99	64	S 64 E	69					I 30
720	.30	719 99	81	S 64 E	33					
805	.30	804 99	74	S 52 E						45
970	.45	969 97	16	S 04 E						I 01
I065	.45	I064 96	24	S 08 W						I 16
I159	.30	I157 96	81	S 29 W						99
I350	VERT.	I249 96	00	VERT.						60
I340	.15	I339 96	39	S 11 E						67
I425	.15	I424 96	37	N 64 E						I 00
I509	.30	I499 96	65	N 45 E						I 44
I628	I.00	I627 94	24	S 34 E						3 69
I721	I.00	I720 93	62	S 04 E						2 80
I814	I.00	I813 92	63	S 01 W						2 77
I905	.45	I905 91	20	S 74 E						2 92
2000	.45	1999 90	23	S 75 E						
2094	.45	2093 89	25	S 54 E						
2248	.30	2247 89	34	N 78 E						5 11
2341	.30	2340 89	81	S 79 E						42
2528	.45	2527 87	45	N 48 E						8 28
2654	.30	2653 87	19	N 07 W						10 04
2770	.30	2777 87	03	N 69 W						9 01
2903	.30	2902 87	09	N 46 W						8 91
3150	I.15	3149 83	39	N 74 W						8 13
3240	I.15	3239 80	96	WEST						2 95
3473	I.00	3472 75	03	S 06 W						3 03
3590	I.00	3589 75	05	N 05 W						5 12

SURVEY RECORD

JOB NO. 519 TWP. 7W0 DATE 8-25-1972

MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES				REMARKS	
					NORTH	SOUTH	EAST	WEST		
2689	1.00	3679.72	1 57	N 89 W						
3800	1.00	3799.70	2 10	N 71 W		4 95		6 69		
3997	1.00	3906.63	1 57	N 62 W		4 87		8 67		
3931	1.30	3959.66	1 15	N 29 E		3 39		10 32		
4063	4.15	4067.84	0 67	N 71 E		2 31		9 92		
4163	5.30	4160.91	9 01	N 71 E				1 74		
4224	6.00	4222.57	6 46	N 71 E			6 78			
4329	6.00	4319.04	10 03	N 71 E			12 90			
4600	5.00	4596.93	24 41	N 73 E			22 39			
4879	4.00	4875.31	19 47	N 74 E			45 61			
5095	8.15	5099.96	18 25	N 75 E			64 32			
5273	6.00	5269.97	18 81	N 83 E			76 15			
5405	7.15	5399.93	16 41	N 86 E			94 92			
5537	6.45	5530.02	13 51	N 86 E			111 29			
5670	6.45	5668.10	15 63	N 89 E			126 76			
5940	7.00	5930.83	20 72	S 89 E			142 33			
5970	6.45	5959.93	15 28	S 87 E			163 10			
6185	6.30	6145.74	20 96	MAST---			178 36			
6320	7.00	6307.51	20 11	N 89 E			199 30			
6410	7.00	6396.84	10 97	N 83 E			219 41			
6599	7.00	6575.49	21 94	N 85 E			239 37			
6790	6.45	6774.11	23 30	N 85 E			252 23			
6890	6.45	6873.42	11 75	N 85 E			275 64			
7090	6.45	7072.04	23 59	N 86 E			297 73			
7150	6.45	7151.62	7 65	N 85 E			310 79			
7200	6.45	7260.72	13 28	N 65 E			317 18			
7577	6.45	7553.67	34 90	N 65 E			351 02			
HORIZONTAL DEPARTURE					\$67.52	N	00.42	E	5477	SUB STA DEPTH
										PROJECTED



PACIFIC LIGHTING SERVICE COMPANY

WALL NO. IW-51

ALISO CANYON

A

B

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

No. T 172-1032

Mr. P. S. Magruder, Jr., Agent
PACIFIC LIGHTING SERVICE CO.
P.O. Box 54790, Terminal Annex
Los Angeles, CA 90054

Inglewood, Calif.
Sept. 5, 1972

DEAR SIR:

Operations at well No. IW 61 (037-21277), Sec. 27, T. 3N, R. 16W, S.D. B & M.
Aliso Canyon Field, in Los Angeles County, were witnessed
on August 26, 1972. Mr. G. Ledingham, Engineer, representative of the supervisor was
present from 0900 to 1000. There were also present R. Anderson, Drilling Foreman.

Present condition of well: 13-3/8" cem. 731'; 8-5/8" cem. 7260' WSO. T.D. 7280'.

The operations were performed for the purpose of testing the water shut-off with a formation
tester.

Mr. reported:

THE 8-5/8" SHUT-OFF AT 7203' IS APPROVED.

GL:dr

cc Company

dr/paw

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

By W. H. Ingram Deputy

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

Report on Operations

No. T 172-937

Mr. P. S. Magruder, Jr., Agent
PACIFIC LIGHTING SERVICE COMPANY
P. O. Box 54790, Terminal Annex
Los Angeles, CA 90054

Inglewood, Calif.
August 11, 1972

DEAR SIR:

Operations at well No. IM 61 (037-21277), Sec. 27, T. 3W, R. 16W, S.B. B & M.
Aliso Canyon Field, in Los Angeles County, were witnessed
on August 10, 1972. Mr. G. Ledingham, Engineer, representative of the supervisor was
present from 0500 to 0730. There were also present R. Anderson, Drilling Foreman.

Present condition of well: 13-3/8" cem. 731'. T.D. 1525'.

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

Mr. ***** reported:

THE BLOWOUT-PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

GL:rah

cc: Company

rah / dr

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

By *W. E. Ingram* Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 172-852

Mr. P. S. Magruder, Jr., Agent
 PACIFIC LIGHTING SERVICE COMPANY
 P. O. Box 54790, Terminal Annex
 Los Angeles, CA 90054

Inglewood, Calif.
 July 20, 1972

DEAR SIR:

Your proposal to drill Well No. IW 61 (037-21277),
 Section 27, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County,
 dated 7-10-72, received 7-13-72, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. A COPY OF THIS REPORT SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.
2. The surface casing shall be cemented in competent beds and blowout prevention equipment, conforming to this Division's Class III requirements, shall be installed and maintained in operating condition at all times.
3. Sufficient cement shall be used to fill back of the 13-3/8" casing to fill back of the casing to the surface.
4. Sufficient cement shall be used to fill all the space back of the 8-5/8" casing to above the top of any oil, gas, or salt water-bearing formations, or the casing shall be cemented also through ports at a point below the base of the fresh water-bearing formations with sufficient cement to fill above such base.
5. THIS DIVISION SHALL BE NOTIFIED:
 - a. To inspect and witness a test of the blowout prevention equipment prior to drilling out cement in the shoe of the 13-3/8" casing.
 - b. To witness a test of the effectiveness of the 8-5/8" shut-off above the Sesnon zone.

ADS:rah

cc: Company

Blanket Bond

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

By *W. L. Ingram, Jr.*, Deputy

DIVISION OF OIL AND GAS
RECEIVED
Recd. 7-17-72
JUL 13 1972

12

037-21277

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well
This notice and surety bond must be filed before drilling begins

Los Angeles Calif. Inglewood, California July 10, 1972

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. IW 61 (037-21277), Sec. 27, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

Legal description of mineral-right lease, consisting of 431.5 acres, is as follows: Porter Lease
(Attach map or plat to scale)
(See attached plat)

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

Location of Well: 1737.37 feet South along section line and 1292.81 feet West at right angles to said line from the Station 84 corner of section.

Elevation of ground above sea level 2075.47 feet Per Metrex A.S. Co. datum.

All depth measurements taken from top of K.B. which is 12.0 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
13 3/8	48#	H-40	0'	700'	700'
8 5/8	36#	K-55 & N-80	0'	7400'	7400'

Intended zone(s) of completion: Sesnon 7240', 7400' Estimated total depth 7400'
(Name) (Depth, top and bottom)

MAP	MAP BOOK	CARD	BOUND	FORMS
RSD	ARG	B	ARG	114 121

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

Address 720 West Eighth St. Pacific Lighting Service Co.
(Name of Operator)

Los Angeles, California 90017 By P. S. Magruder, Jr.

Telephone Number 213-689-3561 Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)