

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST-RECORDS RECEIVED AND WELL STATUS

OPERATOR **Southern Calif. Gas Co.**

WELL DESIGNATION: **"Standard Sesnon" 25A**

API No. **03721322**

SEC **28** , T. **3N** , R. **16W** , **SB** B. and M.

COUNTY: **Los Angeles**

FIELD **Aliso Canyon**

Type of Notice: **Rework**

Date: **7/2/2010**

Report Number: **P210-154**

RECORDS RECEIVED (ATTACH PAGES IF REQUIRED)

	Date	OK	NEED	Remarks
Well Summary (OG100)	12/27/10			
History (OG103)				
E-Log				
Mud Log				
Dipmeter				
Directional				
Core and/or SWS				

NEW STATUS

DATE: 8/10

NOTICE OF RECORDS DUE

DATE: 11/5/10

DATE: _____

DATE: _____

DATE: _____

WELL STATUS INQUIRY

DATE: _____

DATE: _____

Well Stat

Change Required: NO

Change Done: _____

ABANDONMENTS/REABANDONMENTS/DRILLS/REDRILLS

ABANDONMENT DATABASE : _____ SURFACE INSPECTION NEEDED _____ COMPLETED _____
Date and Inspector

FINAL LETTER NEEDED _____ COMPLETED _____ DRILL/REDRILL DATABASE _____
(Date)

ENGINEER'S CHECK LIST

T-REPORT(S) _____ OPERATOR'S NAME _____ WELL DESIGNATION _____ SIGNATURE _____
 LOCATION _____ ELEVATION: _____ CONFIDENTIAL RELEASE DATE: _____ PERMIT REQUIREMENTS MET _____

CLERICAL CHECK LIST

LOCATION CHANGE (OG165) _____ ELEVATION CHANGE (OG165) _____ RELEASE OF BOND (OG150) _____

REMARKS

RECORDS SCANNED: 12/27/10
(Date)

RECORDS APPROVED: 12/27/10 *ca*
(Date and Engineer)

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

Well: Standard Sesnon 25 A

A.P.I. No. 03721322

Dan Neville

Field: Aliso Canyon

County: Los Angeles

Surface Location: Sec 28 3N 16W S.B.B.M.

Title: Senior Storage Field...

(President, Secretary, or Agent)

Date: 12/27/2010

DEC 27 2010

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
8/3/2010	Opened well (2300 psi on tubing). Rigged up wire line. Pulled PXN plug at 8168'. Rigged down wire line. Rigged up for well kill. Pumped 50 bbls hi-vis polymer pill and displaced with 179 bbls 9.5 ppg KCL. Killed well per schedule with 430 bbl KCL water. Installed back pressure plug. Nippled up Class III BOP. Nippled up choke manifold. Rigged up accumulator and function tested BOP.
8/4/2010	Opened well (0 psi tubing and casing.) Filled well with 22 bbls. Rigged up testers. Tested blind rams to 5000 psi for twenty minutes (3" control valves leaking). Continued testing BOP. Tested pipe rams to 5000 psi and Hydril to 3500 psi for twenty minutes. Repaired control vavles. Tested to 5000 psi (pipe ram shaft seals leaking.) Shut down for repairs.
8/5/2010	Repaired pipe ram shaft packing. Tested to 500 psi (ram packing leaking would not test). Waited on equipment. Replaced pipe ram door. Replaced 3-1/8" control valve. Tested pipe rams to 300 psi low and 5000 psi high for twenty minutes. Tested 3 -1/8" control to 300 psi low and 5000 psi high.
8/6/2010	Tested pipe rams and 3" control valve to 5000 psi for twenty minutes (W. Beil DOGGR witnessed and approved BOP test). Filled well with 10 bbls. Backed out hold down studs. Unlanded tubing at 170,000#. Worked stuck tubing to 190,000#. Worked up 4.5' (Clutches out of adjustment, shut down for repairs).
8/9/2010	Filled well with 31 bbls. Rigged up Tiger wire line, made up free point tools and ran in well. Free at 2800', free at 3400', free at 7800', and free at 8150'. Pulled out of well and made up chemical cutter. Ran in well to 8150' and cut 3-1/2" tubing. Rigged out wire line unit. Rigged up casing tongs. Pulled out of well laying down 5-1/2" tubing to kill sting at 4000'.
8/10/2010	Filled well with 4 bbls. Pulled out of well and layed down 5-1/2" and 3-1/2" tubing. Rigged out casing tongs. Changed pipe rams. Rigged up tubing equipment. Measured and picked up 3-1/2" work string to kill string at 3202'.
8/11/2010	Filled well with 7 bbls. Measured and picked up 3-1/2" tubing to 8150'. Engaged fish and pulled seals loose. Pulled out of well to 6000'.
8/12/2010	Filled well with 5 bbls. Pulled out of well laying down fish tools (recovered seals , no/go, one joint and 13' cut off of 3-1/2" tubing). Made up 7" spear, bumper sub, jars,(2) 4-3/4" drill collars and intensifer. Ran in well to 2968', engaged top cone of patch and jarred loose. Pulled out of well and layed down fish (recovered top cone). Made up fish tools and ran in well to 2969'. Engaged fish and jarred loose. Pulled to 2800'.
8/13/2010	Filled well with 9 bbls. Pulled out of well with casing patch. Layed down casing patch (recovered 41' casing patch, left 1' and bottom cone in well). Ran in well with kill string to 3000'.
8/16/2010	Filled well with 19 bbls. Pulled out of well with kill string. Made up 7" spear assembly ,bumper sub, jars, (2) 4-3/4" drill collars. Ran in well to fish at 3010'. Engaged fish and jarred loose. Pulled out of well (recovered 1' and bottom cone.) Layed down fishing tools. Made up 8-5/8" casing scraper with bumper sub and ran in well to 7640'.
8/17/2010	Filled well with 7 bbls. Ran in well to liner top at 7926'. Pulled out of well and layed down 8-5/8" scraper. Made up 6-5/8" casing scraper and ran in well to packer at 8200'. Pulled out of well to kill string at 3400'.
8/18/2010	Filled well with 9 bbls. Pulled out of well with kill string and laid down casing scraper. Nippled up shooting flange. Rigged up Schlumberger wireline and ran USIT log from 8200' to surface. Rigged down loggers and nipped down shooting flange. Ran in well with kill string to 3300'.
8/19/2010	Filled well with 5 bbls. Pulled out of well with kill string. Made up mill and (2) 4-3/4" drill collars and ran in well to 2980'. Attempted to work with tongs. (Shut down and wait for power swivel).
8/20/2010	Filled well with 9 bbls. Picked up power swivel and ran in well to 2990'. Cleaned up stage collar with 7-5/8" string mill. Pulled out of well and laid down mill and drill collars. Made up 6-5/8" bridge plug and ran in well to 7700'.
8/23/2010	Filled well with 13 bbls. Ran in well with bridge plug to 8127'. Set BP and tested to 500 psi for twenty minutes. Dumped 2 cu ft sand on BP. Pulled out of well (down 2 hours for rig repairs). Made up 8-5/8" lok-set bridge plug and ran in well to 2812'. Set BP and tested annulus to 1700 psi for twenty minutes (good). Ran in well to 3188' and set BP. Tested annulus to 1600 psi (bled to 0 psi in 13 minutes). Tested below packer to 500 psi for twenty minutes (good). Released BP.

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

Well: Standard Sesnon 25 A

A.P.I. No. 03721322

Dan Neville

Field: Aliso Canyon

County: Los Angeles

Surface Location: Sec 28 3N 16W S.B.B.M.

Title: Senior Storage Field...

(President, Secretary, or Agent)

Date: 12/27/2010

DEC 27 2010

Signature: 

(Person Submitting Report)

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

Telephone Number: 818-700-3810

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Start Date	Ops: DOGGR Rpt
8/24/2010	Fill well with 2 bbls. Set packer at 3218' and tested below packer to 500 psi for twenty minutes (good). Released packer and ran in well to 5410'. Set packer and tested below packer to 500 psi for twenty minutes (good). Released packer and ran in well to 7900'. Set packer and tested to 500 psi for twenty minutes (all tests good). Released packer and pulled to 3200' kill string.
8/26/2010	Filled well with 7 bbls. Ran in well to 3000' and set packer. Tested annulus to 1600' psi (bled down to 0 in 14 minutes). Released packer and moved to 2980'. Tested annulus to 1600 psi for twenty minutes (good). Pulled out of well and laid down packer. Ran in well with 3100' kill string.
8/27/2010	Filled well with 2 bbls. Pulled out of well with kill string. Made up 8-5/8" bridge plug and packer assembly. Ran in well. (change in orders.) Pulled out of well and laid down packer and BP. Made up retrieving tool and ran in well to 8110'. Nipped up PGSR and circulated out sand. Released 6-5/8" bridge plug. Nipped down PGSR and pulled out of well to 6000'.
8/30/2010	Filled well with 40 bbls. Casing started flowing. Circulated well with 80 bbls. Pulled out of well and laid down 6-5/8" bridge plug. Made up 8-5/8" bridge plug and packer. Ran in well to 6000' and set and released from BP. Pulled to 5000' and set packer. Tested from 5000' to 6000' at 1000 psi for twenty minutes (good). Released packer and ran in well to 6000'. Released BP, pulled to 5000' and set BP. Pulled to 4000' and set packer. Tested from 5000' to 4000' to 1430 psi for twenty minutes (good). Released packer and ran in and released BP.
8/31/2010	Filled well with 7 bbls. Pulled to 4000' and set BP. Pulled to 3000' and set packer. Tested to 1870 psi for twenty minutes (good). Pulled to 2980' and set packer. Tested to 2230' (would not test - packer leaking due to not enough weight). Pulled out of well and laid down BP and packer. Picked up 8-5/8" full bore tension set packer. Ran in well to 2980' and set packer. Tested to 2230 for twenty minutes (good). Pulled to 2500' and set packer. Tested to 2450 for twenty minutes. Pulled to 2000' and set packer. Tested to 2670 for twenty minutes. (packer unloader not opening.) Pulled out of well and laid down packer. Ran in well with kill string.
9/1/2010	Filled well with 9 bbls. Pulled out of well with kill string. Made up 8-5/8" full bore packer and ran in well to 1500'. Tested to surface with 2890' for twenty minutes (good). Pulled to 1000' and tested to surface with 3110 psi for twenty minutes (good). Pulled to 500' and tested to surface with 3300 psi for twenty minutes (good). Pulled out of well and laid down packer. Made up 7.750 string mill (2) 4-3/4" drill collars and ran in well to 3180'. Pulled to 2800'. Nipped up PGSR.
9/2/2010	Filled well with 2 bbls. Rigged up power swivel and milled from 2950' to 3130'. Circulated clean. Pulled out of well and laid down mill. Made up casing patch and running tools. Applied expoy on casing patch and ran in well (stopped at 2117' top at 2077'). Attempted to work thru. Pulled out of well and laid down casing patch (while laying down patch crew member shut blind rams on patch). Ran in well with kill string to 3200'.
9/7/2010	Filled well with 27 bbls. Pulled out of well with kill string. Made up 7.75 string mill, 4-3/4" drill collar, 7-3/8" stabilizer, and 4-3/4" drill collar. Ran in well to 2077'. Picked up power swivel and reamed to 2150'. Ran in well to 3127'. Pulled out of well and laid down tools. Measured and picked up (2) jts of 7-3/8" wash pipe ran and in well to 3200' with no obstructions.
9/8/2010	Filled well with 4 bbls. Pulled out of well with kill string and laid down wash pipe. Made up WEA casing patch and ran to 2119'. Worked thru tight spot and ran to 2157'. Worked thru tight spot and ran to 2970' (top) and bottom at 3110'. Rigged up and set patch with pump at 4000 psi. Pulled thru with rig at 60,000#.
9/9/2010	Filled well with 5 bbls. Pulled out of well and laid down setting tools and 4-3/4" drill collars. Made up Baker 6.25" inflatable packer and ran in well to 3122'. Dropped ball and set packer with 1500 psi. Tested annulus to surface with 1870 psi for twenty minutes (100 psi loss in twenty minutes). Blew ball with 2000 psi and waited 30 minutes for element to relax. Pulled to 2935'.
9/10/2010	Filled well with 4 bbls. Pulled out of well and laid down packer. Made up 6-5/8" bridge plug and ran in well to 7978'. Set bridge plug and tested to 500 psi. Released from BP and pulled to 7920'. Landed in tubing hanger. Installed BPV and nipped down Class III BOP. Nipped up production tree.
9/13/2010	Rigged down hoist and loaded out equipment.
10/15/2010	Spotted tanks mud pump. Moved in and rigged up.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

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A.P.I. No. 03721322

Dan Neville

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Start Date	Ops. DOGGR Rpt
10/18/2010	Installed BPV plug and nipped down production tree. Nipped up class III BOP. Rigged up working floor and tubing equipment.
10/19/2010	Rigged up tester, installed BPV, and tested blind rams to 300 psi low and 5000 psi high for twenty minutes. Removed BPV and tested pipe rams to 300 psi low and 5000 psi high for twenty minutes. Tested Hydril to 300 psi low and 3000 psi high for twenty minutes. Tested all control valves and inside BOP, TIW valve to 300 psi low and 5000 psi high. (M Davis DOGGR waived witness of BOP test). Unlanded tubing and ran in well to 8025'. Engaged and released bridge plug. Pumped 50 bbls with full circulation (10 bbls to fill). Pulled out of well laying down 3-1/2" tubing to 7500'. Took gas kick circulation out gas cut fluids.
10/20/2010	Filled well with 10 bbls. Pulled out laying down 3-1/2 tubing. Pulled out of well and laid down bridge plug. Made up WEA inflatable test packer and ran in well to 3070'.
10/21/2010	Filled well with 5 bbls. Pulled to 3045', dropped dart and pressured to 2200 psi to set packer. Pressured annulus to 1870 psi for one hour (425 psi loss) Rigged up Western wireline, ran in well and retrieved dart. Pulled out of well with packer to 2950', dropped dart and pressured packer to 2200 psi to set packer. Pressured annulus to 2230 psi for one hour (no psi loss). Ran in well with wire line and retrieved dart. Pulled out of well and laid down packer. Ran in well with kill string to 3172'.
10/25/2010	Filled well with 15 bbls. Pulled out of well laying down kill string (104 jts.). Changed pipe rams to 5-1/2" and rigged up casing tongs. Made up 1 jt 2-7/8" tubing with mule shoe, ball seat, 6-5/8" HES G-77 hydraulic set packer, crossover, 1 jt 3-1/2" tubing, no/go nipple, 1 jt 3-1/2" tubing, 3-1/2" sliding sleeve, 7 jts 3-1/2" tubing, gas lift mandrel, 1 jt 3-1/2" tubing, 3-1/2" x 5-1/2" crossover. Ran in well with 5-1/2" LT&C casing applying seal lube to threads to 3500'.
10/26/2010	Filled well with 2 bbls. Measured and picked up 203 joints of 5-1/2" 20# LT&C casing to 8170'.
10/27/2010	Filled well with 2 bbls. Picked up 1 jt 3-1/2" tubing, spacing pup joints and tubing hanger. Dropped ball to set packer. Pressured tubing to 2000 psi to set packer. Pressured to 2500 psi to blow ballseat. Landed in tubing hanger with 12,000 lbs compression per HES tubing move. Made up hold down studs and tested annulus to 500 psi for twenty minutes (25 psi loss). Nipped down BOP and nipped up production tree.
10/28/2010	Rigged down hoist and loaded out equipment for rig move. Cleaned location.
10/29/2010	Installed laterals and blind flanges. Cleaned location.

DEC 27 2010

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Report on Operations

James D. Mansdorfer, Agent
SOUTHERN CALIFORNIA GAS COMPANY
9400 Oakdale Ave.
Chatsworth, CA 91313

Ventura, California
August 6, 2010

Your operations at well "Standard Sesnon" 25A, API No. 037-21322
Sec. 28, T. 3N, R. 16W, SB B. & M. Aliso Canyon
Field in Los Angeles County,
were witnessed on 8/6/2010 by W. Beil, representative of the supervisor.

Operations Witnessed	Result – Def.	Engineer	Date
BOPE Test	Not Approved - 1	W. Beil	8/4/2010
BOPE Test	Not Approved – 1	W. Beil	8/5/2010
BOPE Test	Approved – 0	W. Beil	8/6/2010

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

DECISION: Approved

DEFICIENCIES:

Ram gate packing leaking

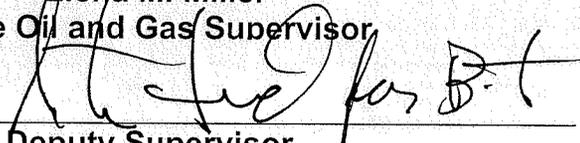
DEFICIENCIES CORRECTED:

Replaced Assembly

tkc

By

Elena M. Miller
State Oil and Gas Supervisor


Deputy Supervisor

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator SO. CAL GAS CO. Well "STANDARD SECTION" 25A Sec. 28 T. 3N R. 16W
 Field ALISO CANYON County Los Angeles Spud Date _____
VISITS: Date Engineer Time Operator's Rep. Title
 1st 08-04-10 W. Beil (11:00 to 17:00) MIKE VOLKMAR - Consultant
 2nd 08-05-10 ✓ (07:30 to 11:00) ✓
 Contractor ENSIGN Well SERVICES Rig # 321 Contractor's Rep. & Title RON CARLSON - Rig Supervisor
 Casing record of well: _____

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y N
DECISION: The blowout prevention equipment and its installation on the 8 5/8 " casing are approved.
 Proposed Well Opns: locate and repair leak . MACP: _____ psi
 Hole size: _____ " fr. _____ to _____ " to _____ " & _____ " to _____ " **REQUIRED BOPE CLASS: III SM**

CASING RECORD OF BOPE ANCHOR STRING					Cement Details		Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at			Casing	Annulus
<u>8 5/8</u>	<u>36 #</u>	<u>K-55 N-80</u>	<u>8112'</u>					

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>A</u>	<u>-</u>	<u>Hydrill</u>		<u>9 1/4</u>	<u>SM</u>							<u>8/4/10</u>	<u>3000</u>
<u>Rd</u>	<u>3 1/2</u>	<u>Shaffer</u>		✓	✓							✓	<u>5000</u>
<u>Rd</u>	<u>50</u>			✓	✓							✓	✓

ACTUATING SYSTEM				TOTAL:		AUXILIARY EQUIPMENT							
Accumulator Unit(s) Working Pressure <u>3000</u> psi						Connections							
Total Rated Pump Output _____ gpm				Fluid Level _____		No.	Size (in.)	Rated Press	Weld	Flange	Thread	Test Press.	
Distance from Well Bore <u>60</u> ft.													
Accum. Manufacturer		Capacity	Precharge	✓	Fill-up Line								
<u>1</u>	<u>KOOMEY</u>	<u>80</u> gal.	<u>1500</u> psi	✓	Kill Line		<u>2</u>					<u>5000</u>	
<u>2</u>	<u>(Weatherford Rental)</u>	gal.	psi	✓	Control Valve(s)		<u>2</u>					✓	
CONTROL STATIONS				Elec.	Hyd.	Pneu.	✓	Check Valve(s)	<u>1</u>				✓
Manifold at accumulator unit					✓	✓	✓	Aux. Pump Cnct.	<u>2</u>				✓
Remote at Driller's station							✓	Choke Line	<u>2</u>				<u>5000</u>
Other:							✓	Control Valve(s)	<u>8</u>				
EMERG. BACKUP SYSTEM				Press.	Wkg. Fluid	✓	Pressure Gauge					✓	
✓	N ₂ Cylinders	<u>1</u>	L= " <u>2550</u>	gal.	✓	Adjstble Choke(s)	<u>2</u>	<u>2</u>				✓	<u>5000</u>
	Other:	<u>2</u>	L= " <u>2200</u>	gal.	✓	Bleed Line		<u>2</u>					
		<u>3</u>	L= " <u>2300</u>	gal.	✓	Upper Kelly Cock							
		<u>4</u>	L= " <u>2250</u>	gal.	✓	Lower Kelly Cock							
		<u>5</u>	L= " _____	gal.	✓	Standpipe Valve							
		<u>6</u>	L= " _____	gal.	✓	Stndpipe Pres. Gau.							
TOTAL:					gal.	✓	Pipe Safety Valve						<u>5000</u>
						✓	Internal Preventer						

HOLE FLUID MONITORING EQUIPMENT			Alarm Type		Class	Hole Fluid Type		Weight	Storage Pits (Type & Size)	
	Audible	Visual								
Calibrated Mud Pit					A	<u>KCL H₂O</u>	<u>9.5</u>	<u>720</u>	<u>blbs</u>	
Pit Level Indicator					B					
Pump Stroke Counter										
Pit Level Recorder										
Flow Sensor					C					
Mud Totalizer										
Calibrated Trip Tank										
Other:										

REMARKS AND DEFICIENCIES:

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

No. P 210-154

PERMIT TO CONDUCT WELL OPERATIONS

010 010

(Old) Field Code (New)

00 00

(Old) Area Code (New)

30 30

(Old) Pool Code (New)

Gas Storage

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

Ventura, California
July 6, 2010

Your proposal to rework well "Standard Sesnon" 25A, A.P.I. No. 037-21322, Section 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Sesnon Pools, Los Angeles County, dated 07/02/10, received 07/02/10 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. MO7, shall be installed and maintained in operating condition and meet the following minimum requirements: Class III 5M
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. No program changes are made without Division approval.
4. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. **Witness a test of the installed blowout prevention equipment prior to commencing downhole operations.**

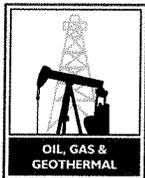
Engineer: Steve Fields

Phone: (805) 654-4761

Elena M. Miller
State Oil and Gas Supervisor

By 
Bruce Hesson, 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 is completed or the operations have been suspended. Issuance of this permit does not preclude the recipient from the obligation of being in compliance with all applicable Federal, State and Local laws, regulations and ordinances.



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

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD 114	OGD 121
1000 000	111 ✓	115 ✓

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

P210-154

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" 25A, API No. 037-21322

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

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

- 13-3/8", H-40, 48#/ft surface casing cemented to surface and set at 806'.
- 8-5/8", N-80/K-55, 36#/ft production casing at 8112' (Cemented with 1704 cuft cement/Casing patch from 2968'-3010')
- 6-5/8", K-55, 28# liner installed from 7926'-8908' / Perfd 4, 1/2" hpf from 8240'-8250', 8270'-8285', 8300'-8320', 8325'-8400' Bridge Plug and cement from 8496'-8603'

The total depth is: 8971 feet.

The effective depth is: 8496 feet.

GS

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

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

Present zone pressure: Varies psi.

Anticipated/existing new zone pressure: Varies psi.

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

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

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

See Attached Program

Pull and remove the 3-1/2"x 5-1/2" tubing string.

Pressure test the 8-5/8" production casing / Remove existing casing patch

Run a USIT log on the 8-5/8" production casing

Shoot and squeeze cement behind 8-5/8" production casing and/or install a new casing patch as necessary. Pressure test production casing.

Run 3-1/2"x 5-1/2" tubing string.

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

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

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

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

Name of Operator

Southern California Gas Company

Address

9400 Oakdale Ave

City/State

Chatsworth, CA

Zip Code

91313

Name of Person Filing Notice

Todd Van de Putte

Telephone Number:

818-701-3339

Signature

Todd R. Van de Putte

Date

7-2-10

Individual to contact for technical questions:

Todd Van de Putte

Telephone Number:

661-305-5387

E-Mail Address:

tvandeputte@semprautilities.com

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

010 / 00 / 30

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

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

CRITICAL WELL DEFINITION

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

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

WELL OPERATIONS REQUIRING BONDING

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

This form may be printed from the DOGGR website at www.conservation.ca.gov/dog/

JUL - 2 2010

WORKOVER PROGRAM

Standard Sesnon 25A – Casing Cement Squeeze / Casing Patch Installation

DATE: July 2, 2010
OPERATOR: Southern California Gas Company
FIELD: Aliso Canyon
WELL: Standard Sesnon 25A
CONTRACTOR: Ensign Well Services
OBJECTIVE: Repair / cement squeeze the 8-5/8" production casing leak and re-install the 3-1/2"x 5-1/2" tubing string.
API NUMBER: 037-21322
ELEVATION: All measurements from the original KB = 15' above GL.

PRESENT WELLBORE CONDITIONS:

0' – 806'	13-3/8"	48#	H-40	Surface casing (cemented to surface with 702 cu. ft cement)
0' - 5422'	8-5/8"	36#	K-55	Production Casing (cemented with 1084 cu. ft., Stage collar @ 2990' cemented with 620 cu ft cement)
5422'-8112'	8-5/8"	36#	N-80	Pengo Patch from 2968'-3010'
7926' - 8908'	6-5/8"	28#	K-55	Liner (cemented with 265 cu ft., 6-5/8" x 8-5/8" lap squeezed with 95 cu ft. cement) WSO @ 8075', Perforated w/4-1/2" jspf, 8240'-8250', 8270'-8285', 8300'-8320', 8325'-8400'. Bridge plug and cement from 8496'-8603'

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(See attached Schematic and Well Data Sheet for Additional Wellbore Details)

TOP OF ZONES: (S-4): 8240'MD/8154' TVD / (S-8): 8326'MD/8238'TVD

FIELD PRESSURE: 2700 psig (surface)

Notes: BOP requirements in 224.05 should be fully implemented. Class III 5M (minimum) requirements should be followed. Field reservoir inventory and pressures should be monitored during the workover with a 300 psig minimum overbalance on well control fluids.

WELL WORK PROGRAM

Pre Rig Work:

1. De-energize and remove laterals. Install companion flanges for killing well.
2. Move in pump with tank, shaker and mixer. The rig crew to provide the labor for re-killing the well and installing the kill equipment.
3. Spot the 500 bbl Baker tanks and fill with 9.6 ppg KCl or NaCl brine.
 - 3.1. Treat the kill fluids with biocide, 5 gal/100 barrels concentration.
 - 3.2. Connect the rig pump to the tubing and vent the casing through the choke manifold to the Gas Company system.
 - 3.3. Verify the current field pressure and confirm the correct weight of kill fluid.
4. Re-kill well and circulate the well with 9.6 ppg KCl or NaCl brine
5. All the annulus valves should be bled of all pressure and standing full of brine before proceeding with the rig work.

Rig Work:

1. Move in the production rig with the rig pump and mud pit.
2. Install BPV. Remove the tree and install a 10" Class III – 5M BOPE (minimum) as per Gas Company Procedure on the 10" tubing head.
 - 2.1. Fit the 5M BOPE with 3-1/2" pipe rams and CSO.
 - 2.2. The 5M BOPE must have connection and valve below the blind rams. Fit with 5000 psig minimum rated valve.
3. Test the 5M BOPE system to assure the integrity of connections.
 - 3.1. Test the pipe rams and blind ram to 5000 psig. Test the Annular Preventer to 3500 psig for 15 minutes.
 - 3.2. Perform a low pressure test of the pipe rams, blind rams and annular preventer to 300 psig for 15 minutes.
 - 3.3. Notify the DOGGR prior to the BOPE test and chart both high and low pressure BOP tests.
4. Install a pup joint of 3-1/2" tubing in the 8" x 3-1/2" tubing hanger with a Safety valve in the top. Back out the tubing hanger pins and unland the 3-1/2"x 5-1/2" tubing string.
5. Straight pull release from the 6-5/8" Otis Permatrievie PW packer seals at 8200' MD.
6. Pull out of the well slowly, checking for drag with the 3-1/2"x 5-1/2" tubing string and lay down the 3-1/2"x 5-1/2" tubing and associated completion equipment.
7. Lay down 3-1/2"x 5-1/2" completion string and pick up footage of 2-7/8" tubing to complete the workstring.

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8. Rig up the fishing tools and remove the Pengo casing patch from the 8-5/8" production casing.
 - 8.1. Lay down the Pengo casing patch and the associated fishing tools.
9. Pick up and run a 8-5/8" casing scraper and run in the hole to 7900'(+/-). Pull out of the hole and lay down the 8-5/8" casing scraper. Circulate the hole clean.
10. Rig up a shooting flange/lubricator and run a USIT inspection log in the cemented 8-5/8" production casing from 7900' (+/-) to surface to identify the cement bond behind the 8-5/8" casing and the condition of the 8-5/8" production casing.
11. Based on the results of the 8-5/8" CBL/casing inspection log, squeeze cement (if required) into the leak area(s).
 - 11.1. Install an 8-5/8" retrievable bridge plug below squeeze area. Pressure test the bridge plug to 1000 psig. Spot sand on top of the bridge plug.
 - 11.2. Perforate the 8-5/8" casing at the designated depth.
 - 11.2.1. Perform a pump in test to determine the injection rate and surface injection pressure into the perforations.
 - 11.3. Pick up and run an 8-5/8" test packer on 2-7/8" tubing and squeeze cement into the perforations. Release the 8-5/8" test packer and pull 1500' above the squeeze holes and clear the tubing. Wait on the cement.
 - 11.4. Lay down the 8-5/8" test packer and pick up and run a 7-5/8" bit and clean out the cement squeeze in the 8-5/8" production casing to the top of the sand plug.
 - 11.5. Pressure test the 8-5/8" casing to verify the casing integrity. If a leak is detected run a test packer and retest the 8-5/8" production casing.
 - 11.6. Repeat squeeze and/or perforating as necessary.
 - 11.7. Verify the cement bond with a repeat USIT log in the 8-5/8" production casing.
12. Run in the hole with the 2-7/8" workstring and clean out the sand above the 8-5/8" bridge plug.
13. Run in the hole and retrieve the 8-5/8" bridge plug. Circulate the hole clean. Make sure well is killed after the 8-5/8" bridge plug is removed.
14. If the 8-5/8" production casing does not test in the shallow interval 3000'MD (+/-), install an 8-5/8" Homco type patch in the production casing in the 3000'MD interval. Pressure test the casing patch to 500 psig for 15 minutes.
15. Run tubing and accessories as follows and space out as required:
 - 15.1. 1 – Guide Shoe
 - 15.2. 1 – set of set of Permatrieve seal units
 - 15.3. 1 – cross over to the slot locator
 - 15.4. 1jt – 3-1/2" L-80 tubing

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- 15.5. 1 – 3-1/2” XN no go nipple
 - 15.6. 1 – 3-1/2” HES Sliding Sleeve
 - 15.7. 8jts – 3-1/2” L-80 tubing
 - 15.8. 1jt – 3-1/2” L-80 pup jt.
 - 15.9. 1 - 3-1/2”, GLM w/ 1-1/2” RA Latch
 - 15.10. 1 – 3-1/2” pup joint
 - 15.11. 1jt – 3-1/2”, L-80 tubing
 - 15.12. 1 – 3-1/2” x 5-1/2” crossover.
 - 15.13. 193 jts – 5-1/2” 20# N-80 and 17# K-55
 - 15.14. 1- 3-1/2” x 5-1/2” crossover
 - 15.15. 1 – 3-1/2” L-80 pup jts (as required for spacing)
 - 15.16. 1 - 3-1/2” x 8” AJO Tubing Hanger
 - 15.17. Run tubing stretch calculation to verify landing weight.
 - 15.18. Pressure test the tubing/casing annulus to confirm integrity of packer and seals to 500 psig for 10 minutes.
16. Install the BPV and remove the 10”, Class III 5M BOPE. Install the tree and test to 5000 psig. Remove the BPV.
17. Clean the pits, the location and properly dispose of any well work fluids.

Post Rig Work:

- 1. Unload the well and close the sliding sleeve.
- 2. Place well on tubing withdrawal to clean up water from completion interval. Clean up the location.

Todd Van de Putte

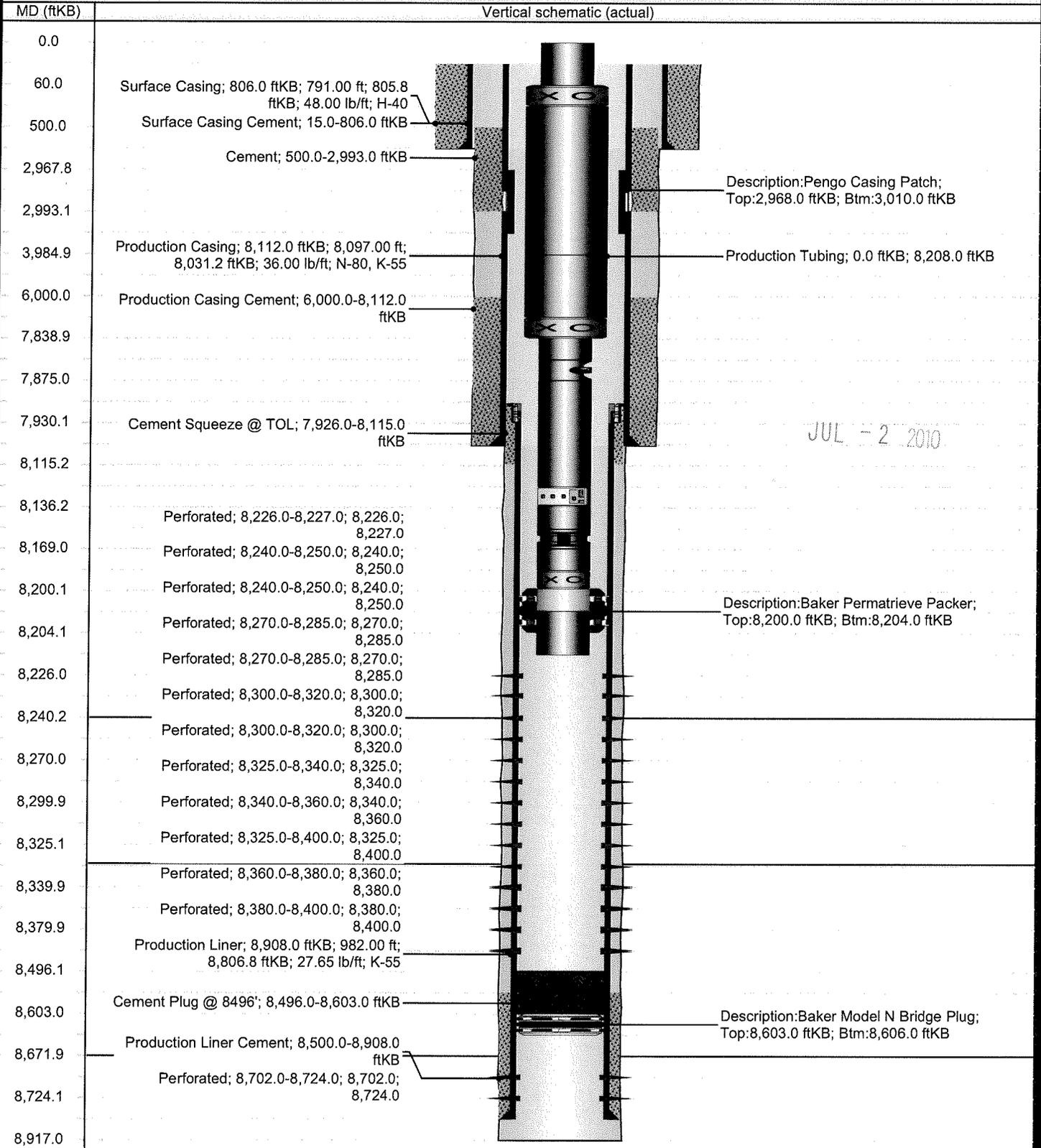
JUL - 2 2010

Standard Sesnon 25 A

Gas Company Schematic

API 03721322	Field Name Aliso Canyon	Operator Southern California Gas Company	County Los Angeles	State California
Ground Elevation (ft) 2,927.00	KB-Ground Distance (ft) 15.00		Spud Date 11/2/1972 00:00	

Main Hole, 6/28/2010 7:02:27 AM



WELLHEAD DESCRIPTION

Well No. IW-69

Field Aliso

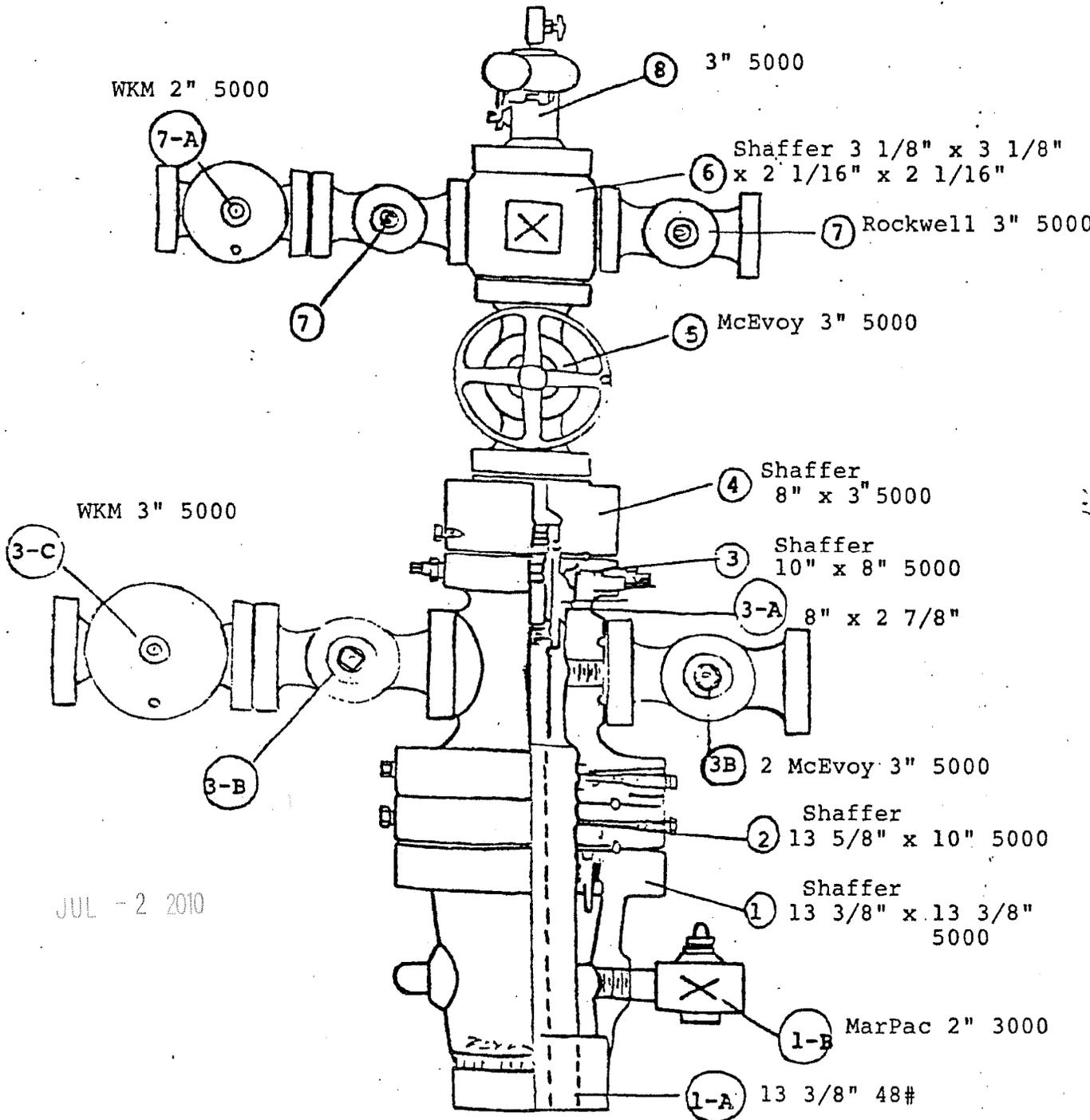
Date Prepared 7-16-84

JUL - 2 2010

Wellhead Mfgr Shaffer

1. Casing Head Shaffer Size 13 5/8"x13 3/8" Type KD
 Slips & Pack-off 13 5/8"x8 5/8" 5000 psi
 - A. Surface Csg. Size 13 3/8" Wt 48# Grade H-40
 - B. Casing Head Valve Marpac Size 2" 3000 psi Fig.No. CSB-790-JN
2. Seal Flange Shaffer Size 13 5/8" x 10" 5000 psi
 - A. Type Seal Lockscrew Ring BX-160 & R-54
3. Tubing Head Shaffer Size 10" x 8" 5000 psi Type _____
 Ring R-54 & Ring R-50
 Outlets 2-3" 5000 psi Sec.Seal Lockscrew
 Valve Removal Thrd 2-1/2" API
 - A. Tubing Hanger Shaffer Size 8" x 3 1/2" Type AJO
 B.P.V. Size 3 1/2" Thrd _____
 - B. Tubing Head Valves McEvoy Size 3" 5000 psi Fig.No. 129
 - C. Automatic Csg. Valve WKM Size 3" 5000psi Fig.No. 114522
4. Adapter Seal Flange Shaffer Size 8" x 3" Type AJO
 - A. Ring Size R-50 & R-35
5. Master Valve McEvoy Size 3" 5000 Fig.No. 129
6. Xmas Tree Cross Shaffer Size 3 1/8" x 3 1/8" x 2 1/16" x 2 1/16" Bore Thru 3 1/8"
7. Tubing Wing Valves Rockwell Size 3" 5000 psi Fig.No. _____
 Across 2 1/16"
 - A. Automatic Tbg. Valve WKM Size 3" 5000psi Fig.No. 114522
8. Unibolt Size 3" 5000 psi Inside Thrds 8rd
9. Wt. Landed in Csg. Head 290,000 Wt. 36# Grade K-55
10. Wt. Landed on Doughnut 120,000 3 1/2" x 5 1/2" Hyd Wt. Triple Seal Grade K-55
11. Tubing Head to Ground Level 2.50

TYPE IV



JUL - 2 2010

Well Name: IW 69 Aliso Canyon

Mfgr: Shaffer

Date Prepared: 7-11-84

Prepared By: Ed Bradb

TUBING DETAIL

JUL - 2 2010

WELL: Standard Sesnon 25A

STATUS: Injection/Withdrawal

FIELD: Aliso Canyon

DATE: 12/22/93

DIAGRAM	TUBING		TUBING		TUBING	
	SIZE	3-1/2"	5-1/2"	3-1/2"		
	WEIGHT	9.3#	20# & 17#	9.3#		
	GRADE	N80	N80 & K55	N80		
	THREAD	EUE 8rd	ABFL4S	EUE 8rd		
	DEPTH	89'	3985' & 7834'	8208'		
	I.D.	2.992"	4.778" & 4.892"	2.992"		
	DRIFT	2.867"	4.653" & 4.767"	2.867"		
	O.D.	4.500"	5.500"	4.500"		
		DESCRIPTION		LENGTH	DEPTH	
		1	K.B.	15.00	15.00	
	2	Tbg. Head to G.L.	-2.50	12.50		
	3	Donut 3-1/2" x 3-1/2" EUE 8rd	.46	12.96		
	4	3-1/2" N80 Pup Jt.	7.55	20.51		
	5	3-1/2" N80 Pup Jt.	8.13	28.64		
	6	1Jt. 3-1/2" N80 Tbg.	31.65	60.29		
	7	X-over 3-1/2" 8rd x 5-1/2" ABFL4S	1.14	61.43		
	8	100 Jts. 5-1/2", 20#, N80 ABFL4S	3923.54	3984.97		
	9	X-over 5-1/2", 20# x 5-1/2", 17# ABFL4S	1.00	3985.97		
	10	93 Jts. 5-1/2", 17#, K55 ABFL4S	3848.09	7834.06		
	11	X-over 5-1/2", 17# x 3-1/2", 9.3#	.98	7835.04		
	12	1 Jt. 3-1/2" N80 Tbg.	31.50	7866.54		
	13	3-1/2" N80 Pup Jt.	4.14	7870.68		
	14	3-1/2" MMA GLM w/ 1-1/2" RA Latch	8.10	7878.78		
	15	3-1/2" N80 Pup Jt.	1.55	7880.33		
	16	8 Jts. 3-1/2" N80 Tbg.	250.98	8131.31		
	17	Otis 2.750" XD SSD (opens down)	3.55	8134.86		
	18	1 Jt. 3-1/2" N80 Tbg.	31.51	8166.37		
	19	Otis 2.635" XN no-go nipple	1.43	8167.80		
	20	1 Jt. 3-1/2" N80 Tbg.	31.50	8199.30		
	21	X-over 3-1/2" x 2-7/8" 8rd (2.380" I.D.)	.30	8199.60		
	22	St. Slot Locator (above)	.40	8200.00		
		St. Slot Locator (inside)	.75	8200.75		
	23	4 seal units	4.04	8204.79		
	24	Production Tube	2.97	8207.76		
	25	Otis Guide Shoe	.40	8208.16		
	A.	Otis 6-5/8" Permatrieve Packer w/ 3.25" Bore I.D. wireline set at: Tubing landed w/ 39,000# on packer		8200.00		
		Up wt.: 132,000#				
		Dn wt.: 114,000#				

OPERATOR SoCal Gas
 WELL NO. "STANDARD SESNON" 25A
 MAP

SECTION 28, T. 3 N, R. 16
 A.P.I. 037-21322

INTENTION	<u>REPERFORATE</u>					
NOTICE DATED	<u>02/09/2006</u>					
P-REPORT NUMBER	<u>P206-51</u>					
CHECKED BY/DATE						
MAP LETTER DATED						
SYMBOL	<u>DL</u>					

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	<u>02/10/06</u>											
HISTORY	<u>2/6/06</u>											
SUMMARY												
E-LOG												
MUD LOG												
DIPMETER												
DIRECTIONAL												
CORE/SWS												
CBL												
<u>AR</u>	<u>3/13/06</u>											

ENGINEERING CHECK

T-REPORTS						
OPERATOR'S NAME						
WELL NO.						
LOC & ELEV						
SIGNATURE						
SURFACE INSP.						
DRILL CARD						

RECORD'S COMPLETE DL

FINAL LETTER OK _____
 MAILED _____
 RELEASED BOND _____

INJECTION BOOK _____
 IDLE WELL LIST _____
 SURFACE INSP. CARD _____
 OK TO RELEASE FROM CONFIDENTIAL _____
 ABANDONED-REMOVED FROM E.D.P. _____

REMARKS: _____

SOUTHERN CALIF. GAS

OPERATOR Tom Lutz
 LSE & NO ZW 69
 MAP NO. 250

INTENTION

	drill 1	Aug 8 Alter CSG 2 GAS STORAGE	Repair casing in 943 storage	alter casing 4	CHANGE TUBING 5
NOTICE DATED	10-28-72	6-25-76	10/9/81	3-23-83	—
P-REPORT NUMBER	172-1221	276-231	281-395	283-66	—
CHECKED BY/DATE					SPM 2-8-94
MAP LETTER DATED	10-25-75 PRO	W/C	W/C	W/C	
SYMBOL					

NOTICE

	10-30-72 REC'D	6-29-76 NEED	10/16/81 REC'D	3-24-83 NEED	REC'D	NEED	REC'D	NEED
HISTORY	10-30-73	8-5-76	11/16/81	5-12-83			2-4-94	
SUMMARY	10-30-73	—	—	—				
IES/ELECTRIC LOG	8-22-75							
DIRECTIONAL SURV.	8-22-75							
CORE/SWS DESCRIPT.								
DIPMETER RESULTS								
OTHER								
RECORDS COMPLETE	(C)	(C)	MS	7-8-83			MF 2-8-94	SPM

ENGINEERING CHECK

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

CLERICAL CHECK

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

REMARKS: - CSG DETAIL 8-11-76

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
Well: Standard Sesnon 25 A
A.P.I. No. 037-21322

Field: Aliso Canyon
Surface Location: Sec 28 3N 16W S.B.B.M.
Mark Kuncir
County: Los Angeles
Title: Storage Field Engineer
(President, Secretary, or Agent)

Date: 02/02/2006

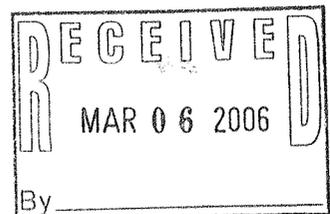
Signature: *mk*
(Person Submitting Report)

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
01/18/2006	RU Spicer W/L. RIH w/ 1-3/4" x 30' drift tool to check tbg for obstructions. Tagged @ 8473' w/ tbg tail @ 8199'. RD W/L.
02/01/2006	RU Schlumberger W/L. RIH w/ PDC GR-NL tool. Tagged @ 8441'. PU 1-11/16" strip gun and RIH and perforated the 6-5/8" liner w/ 2 SPF (Enjet-DP 1.69", EJ3, RDX, ~0.28" holes) from 8400-8380', 8380-8360' and 8360-8340' (Runs 1 - 3, 60'). Closed well in overnight.
02/02/2006	RIH w/ 1-11/16" strip gun and perforated 6-5/8" liner w/ 2 SPF from 8340-8325', 8320-8300', 8285-8270' and 8250-8240' (Runs 4 - 7, 60'). RD W/L.



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

No. P206-51

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
February 15, 2006

Your proposal to reperforate well "Standard-Sesnon" 25A
A.P.I. No. 037-21322 Sec. 28, T. 3N, R. 16W, SB B.&M
Aliso Canyon field, area, Sesnon-Frew po
Los Angeles County, dated 02/9/2006 received 2/10/2006 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.

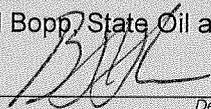
The Division recommends, as a minimum, that carbon monoxide monitoring equipment and a vent line be installed and maintained operational during all extensive perforating operations.

SAF:sf

Engineer Steven A. Fields

Hal Bopp, State Oil and Gas Supervisor

Phone (805) 654-4761

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.

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

NOTICE OF INTENTION TO REWORK / REDRILL WELL **P206-5**

C.E.Q.A. INFORMATION (when re-drilling 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 We File
	OGD114	OGD121	
1000 000	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-Seson 25A (Well designation) API No. 03721322

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

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:
 0-806' 13-3/8" 48# H40 8rd ST&C surface csg;
 0-8112' 8-5/8" 36# K55 & N80 Butt. prod. csg;
 7926-8908' 6-5/8" 27.65# K55 FJ liner;
 3-1/2" 9.3# N80 EUE 8rd tbg crossed-over to 5-1/2" 17-20# K55 & N80 ABFL4S;
 6-5/8" Otis Permatrieve pkr @ 8200';
 6-5/8" liner perforated w/ four 1/2" HPF from 8280-8282', 8308-8312', 8355-8364', 8712-8716',
 8240-8250', 8270-8280', 8282-8285', 8300-8308', 8312-8320', 8325-8355' and 8364-8400';
 Cmt plugs inside 6-5/8" liner from 8917-8903' and 8603-8496'; Baker Model 'N' BP @ 8603'.
 2. The total depth is: 8917 feet. The effective depth is: 8903

GS

3. Present completion zone (s): Seson (Name) Anticipated completion zone (s): Seson (Name)
 4. Present zone pressure: 2740 psi. Anticipated/existing new zone pressure: 2740
 5. Last produced: 11/2004 0 0 1.366
 (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 (Seson) w/ 2 SPF (1-11/16" strip gun loaded w/ Enjet-DP 1.69", RDX, ~0.28" hole) from 8240-8250', 8270-8285', 8300-8320' and 8325-8400' (120' total).

RECEIVED
FEB 10 2006
By DOGGER DIST2

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

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

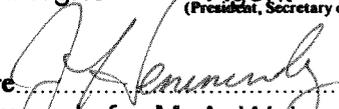
Name of Operator Southern California Gas Company	Telephone Number 818.700.3810
Address 12801 Tampa Avenue	City Northridge Zip Code 91326
Name of Person Filing Notice Mark T. Kuncir	Signature <u>Mark T. Kuncir</u> Date 2/9/06

File In Duplicate

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

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
 Well Standard Sesnon #25A , Sec. 28. , T. 3N. , R. 16W. , S. B. & M.
 A.P.I. No. 037-21322 Name M. A. Woiemberghe Title Agent
 Date January 31, 1994 (Person submitting report) (President, Secretary or Agent)

Signature 
 J. A. Hemmerly for M. A. Woiemberghe

P. O. Box 3249 Los Angeles, CA 90051-1249 (213) 244-2687
 (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	
<u>1993</u>	
12/03	Moved rig from Montebello to Aliso Canyon for SS-25A workover.
12/04	Continued rigging up. Mixed fluids. Bled casing from 500 psi to zero psi. Pumped 40 Bbls and bled gas from well. Repeated until full. Tubing still at 500 psi. Bled to zero. Pumped 40 Bbls and vented gas. Repeated until full. Pumped down tubing and had returns from casing at 300 psi. Well stood full. Set BPV. Removed xmas tree. Installed Class III 5000 psi BOPE. Tested casing against packer to 500 psi for 20 minutes on recorder. Tested BOPE.
12/06	Changed pipe rams to 5-1/2". Unlanded 3-1/2" x 5-1/2" large diameter tubing with 170,000 lbs. of pull, and pulled up to 210,000 lbs. Laid down 3-1/2" tubing. Visually inspected and laid down 5-1/2" 20# Hydril Triple Seal pipe. Approximately 40 joints out of 120 joints are estimated to need repair. Some scale and pitting was also found while visually inspecting 5-1/2" pipe.
12/07	Inspected and laid down 5-1/2" Hydril TS casing and 3-1/2" 8rd EUE tubing. Ran 66 jts. of 2-7/8" 8rd EUE tubing for a kill string. Suspended workover operations pending the inspection and repair of tubing.
12/16	Attempted to kill well by pumping 540 Bbls of inhibited 2% KCl @ 2100 psi. Well was not dead at the completion of pumping.

RECEIVED

FEB 04 1994

DIVISION OF OIL, GAS, AND
 GEOTHERMAL RESOURCES
 VENTURA, CALIFORNIA

D.O.G. 2/2/94

- 12/17** Killed well with 390 Bbls of 2% KCl. Circulated 195 Bbls. While laying down kill string, well started flowing. Closed well in. CSIP: 150 psi. Could not run in well with kill string. Pumped 371 Bbls of 2% KCl and circulated 50 Bbls. Closed well in with 0 psi on tubing and casing. Picked up and ran 2-7/8" tubing kill string to 5000'. Well started flowing. Circulated 300 Bbls 2% KCl. Closed well in with 0 psi pressure on both tubing and casing. Picked up and ran in well to 7750' with kill string.
- 12/20** Circulated 380 Bbls of 2% KCl water. Pulled out of well and laid down 2-7/8" kill string. Picked up and internally pressure tested 3-1/2" 9.3#, N-80, 8rd tubing w/ AB-modified 8rd collars and 3-1/2" production equipment in well. Picked up and internally pressure tested 5-1/2" 17#, K-55 Atlas Bradford FL4S large diameter tubing in well to 5000 psi.
- 12/21** Picked up and internally pressure tested 5-1/2" large diameter tubing in well to 5000 psi. (total of 93 joints of 17# and 100 joints of 20# run in well).
- 12/22** Hydrotested remainder of large diameter tubing in the well. Spaced out large diameter tubing and landed with 39,000 lbs of compression on packer. Removed BOPE. Installed xmas tree and tested to 5000 psi. Released rig at 1:00 p.m., 12/22/93.

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 well in Sec. 28, 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:

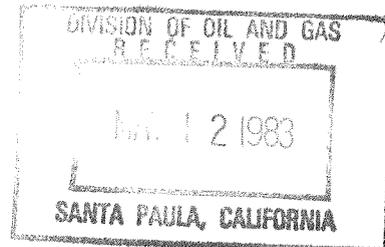
From:	To:
IW 54 (037-21319)	"Porter" 26E (037-21319)
IW 55 (037-21353)	"Porter" 26C (037-21353)
IW 65 (037-21320)	"Porter" 26D (037-21320)
IW 69 (037-21322)	"Standard Sesnon" 25A (037-21322)
IW 74 (037-21357)	"Porter" 26B (037-21357)
IW 79 (037-21361)	"Standard Sesnon" 44B (037-21361)
IW 80 (037-21362)	"Porter" 26A (037-21362)
IW 83 (037-21455)	"Standard Sesnon" 44A (037-21455)

bb

M.G. MEFFERD, State Oil and Gas Supervisor

By Patrick J. Kinnear
Patrick J. Kinnear, Deputy Supervisor

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



History of Oil or Gas Well

Operator So. California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #69, Sec. 28, T. 3N, R 16W S. B. B. & M.
A.P.I. No. 037-21322 Name J. P. Anand Title Agent
Date April 29, 1983 (Person submitting report) (President, Secretary or Agent)

Signature J. P. Anand

P.O. Box 3249 Terminal Annex Los Angeles, CA 90051 (213) 689-3925
(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	
<u>1983</u>	
4-20	Rigged down SPS #45 to move to IW #69 Aliso Canyon.
4-21	Moved SPS #45 from Honor Rancho to IW #69 Aliso Canyon.
4-22	Rigged up SPS Rig #45 and circulated well.
4-23	Installed back pressure valve in doughnut. Removed tree and installed 8" x 5,000# BOPE. Pressure tested BOPE with water as follows: Hydril 2,000 psi-20 minutes, pipe rams 3,000 psi-20 minutes, blind rams 3,000 psi-20 minutes, choke manifold, check valve and safety valve 3,000 psi-20 minutes. Test witnessed by DOG, Mr. Rob Habel. Removed back pressure valve from doughnut; released latch-in-locator from Otis packer at 8200', and started out of well laying down 2-7/8" tubing.
4-25	Finished laying down 2-7/8" EU tubing. Installed 5-1/2" rams in BOPE. Made up Otis production tube on 4 seals with locator, one joint of 3-1/2" J-55 tubing, one Otis 2.75" I.D. NO GO nipple, one joint of 3-1/2" tubing, one Otis 3-1/2" sliding sleeve with 2.81" profile (open) eight joints of 3-1/2" EU tubing, one 3-1/2" Camco mandrel with 4,000 psi BST pump out plug in place, one 3-1/2" 8Rd. 5-1/2" 20# Hydril triple seal crossover and started in well Hydro testing to 5,000 psi.
4-26	Finished Hydro testing 5-1/2" casing in well. Installed one joint of 3-1/2" EUE 8Rd N-80 tubing above 5-1/2" casing and 17' of 3-1/2" EUE 8Rd pups. Installed doughnut and installed 3-1/2" sub in top of doughnut to land. Sub would not make up. Removed sub and found bad threads in doughnut. Secured well waiting for new doughnut.

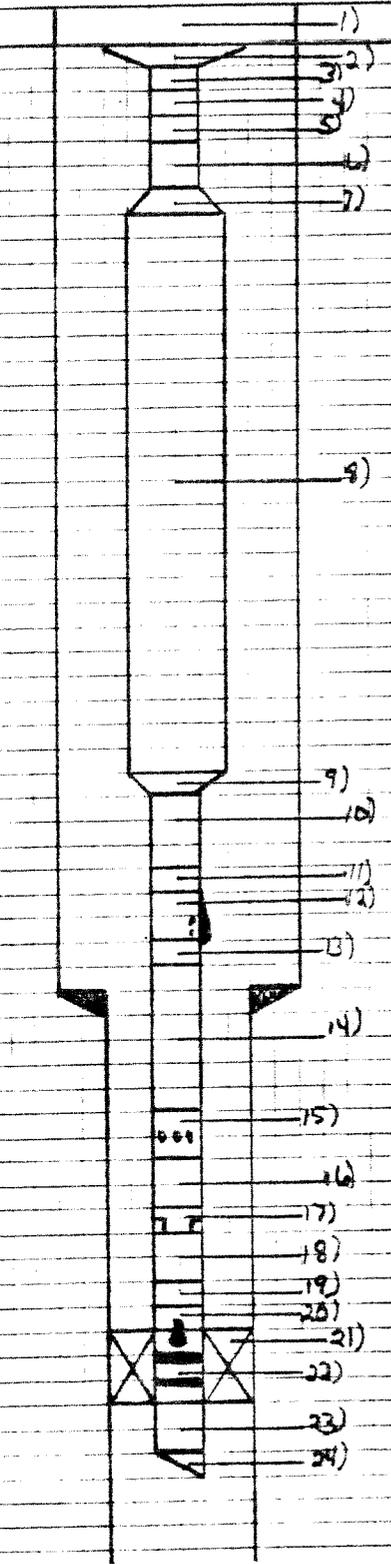
4-27

Installed new doughnut on 3-1/2" tubing. Landed Otis locator in packer at 8200' with 40,000# on locator when doughnut was in place. Installed back pressure valve in doughnut, removed BOPE and installed tree. Pressure tested tree and seals 5,000 psi. Displaced 400 bbls of 69#/cu.ft. polymer completion fluid with 400 bbls of 63#/cu.ft. lease salt water. Released rig to move to Porter #69A at 12:01 p.m.

WELL PROFILE

OPERATOR So. Calif. Gas Co.
 WELL # IW #69
 FIELD Aliso Canyon
 COUNTY Los Angeles
 STATE California
 DATE 4-26-83
 NEW COMPLETION WORKOVER

C/TING	LINER	TUBING		
		1	2	3
SIZE _____	_____	_____	_____	_____
WEIGHT _____	_____	_____	_____	_____
GRADE _____	_____	_____	_____	_____
THREAD _____	_____	_____	_____	_____
DEPTH _____	_____	_____	_____	_____



ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	K.B.	15.00	∅
2.	Tubing hanger	.70	15.70
3.	Pup 3-1/2" EUE 8Rd N-80	.65	16.35
4.	Pup 3-1/2" EUE 8Rd N-80	6.15	22.50
5.	Pup 3-1/2" EUE 8Rd N-80	10.02	32.52
6.	1 joint 3-1/2" EUE 8Rd N-80 tubing	31.20	63.72
7.	Cross-over 3-1/2" 8Rd X 5-1/2" TS	.70	64.42
8.	187 joints 5-1/2" 20# K-55 TS tubing	7791.03	7855.45
9.	Cross-over 5-1/2" TS X 3-1/2" 8Rd	.70	7856.15
10.	1 joint 3-1/2" EUE 8Rd J-55 tubing	29.95	7886.10
11.	Pup 3-1/2" EUE 8Rd	4.17	7890.27
12.	Gas lift mandrel 1-1/2" pocket	8.08	7898.35
13.	Pup 3-1/2" EUE 8Rd	1.60	7899.95
14.	8 joints 3-1/2" EUE 8Rd J-55 tubing	242.33	8142.28
15.	Otis XA SSD run upside down 2.750	3.75	8146.03
16.	1 joint 3-1/2" EUE 8Rd J-55 tubing closes	30.11	8176.14
17.	Otis (XN) NO GO nipple 2.635	1.45	8177.59
18.	1 joint 3-1/2" EUE 8Rd J-55 tubing	31.00	8208.59
19.	1 joint 3-1/2" EUE 8Rd J-55 tubing	.80	8209.39
20.	Cross-over 3-1/2" 8Rd X 2-7/8" 10Rd	1.16	8210.55
21.	Otis straight slot locator	4.20	8210.55
22.	Otis 6-5/8" PW packer 3.25	4.00	8214.55
23.	Otis 4 seals 2.38 3.29	2.95	8217.50
24.	Otis production tube	.42	8217.92
	Otis guide shoe		
	Tubing tail		
	Tubing weight up 150,000#		
	Tubing weight down 133,000#		
	Landed 40,000# on packer		

DIVISION OF OIL AND GAS

Report on Operations

Mr. J. P. Anand, Agent
Southern Calif. Gas Co.
Box 3249 Terminal Annex
Los Angeles, CA 90051

Santa Paula, Calif.
June 7, 1983

Your operations at well IV 69, API No. 037-21322,
Sec. 28, T. 3N R. 10W SB B. & M. Aliso Canyon Field, in Los Angeles County,
were witnessed on 4/23/83 by R. Habel, representative of
the supervisor, was present from 1500 to 1700. There were also present Ed Bradberry,
So. Calif. Gas Co. Rep.

Present condition of well: 13 3/8" cem 806'; 8 5/8" cem 8112'; cp 2990', perf 8075' WSO;
6 5/8" cem 7926-8908'; perf 8240-8400'; perf 8226' WSO, TD 8917', plugged with cem
8603-8496'.

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. MEYERD

State Oil and Gas Supervisor

By

Deputy Supervisor

Murray W. Bosch

REPORT ON PROPOSED OPERATIONS

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

Mr. J. P. Anand, Agent
Southern Calif. Gas Co.
Box 3249 Terminal Annex
Los Angeles, CA 90051

Santa Paula, California
March 30, 1983

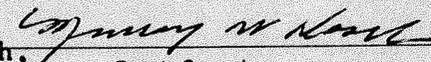
Your _____ proposal to alter casing well IW 69,
A.P.I. No. 037-21322, Section 28, T. 3N, R. 16W, SB B. & M.,
Aliso Canyon field, any area, Sesnon-Frew pool,
Los Angeles County, dated 3/23/83, received 3/24/83 has been examined in conjunction with records
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of sufficient quality and quantity shall be maintained in the hole to control any subsurface condition, and a reserve supply shall be on hand for emergencies.
2. Blowout prevention equipment of at least DOG Class III 2M B shall be installed and maintained in operating condition at all times.
3. This office shall be consulted before initiating any changes or additions to this proposed operation, or if operations are to be suspended.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS A PRESSURE TEST OF THE BLOWOUT PREVENTION EQUIPMENT BEFORE COMMENCING DOWNHOLE OPERATIONS.

Blanket Bond
MS:b

M. G. MEFFERD, State Oil and Gas Supervisor

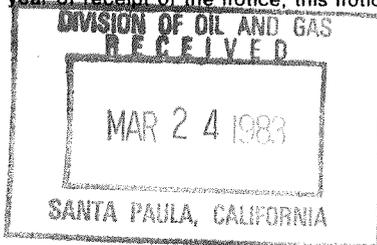
Murray W. ^{By} Dosch, 
Deputy Supervisor

**A copy of this report and the proposal must be posted at the well site prior to commencing operations.
Records for work done under this permit are due within 60 days after the work has been completed
or the operations have been suspended.**

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

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



FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
BB	✓	✓

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 IW#69 (Well designation), API No. 037-21322
Sec. 28, T. 3N, R. 16W, S. BB & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 8917'
- Complete casing record, including plugs and perforations
13-3/8" cemented 806'
8-5/8" cemented 8112', cp'd 2990', WSO 8075'
casing patch 3010' - 2968'
992' 6-5/8" cemented 8908', plugged to 8496', perforated
8400' - 8325', 8320' - 8300', 8285' - 8270'
and 8250' - 8240' WSO 8226', top 7926'
- Present producing zone name Sesnon; Zone in which well is to be recompleted _____
- Present zone pressure 2000 psi; 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/D) (Surface pressure, psig)

The proposed work is as follows:

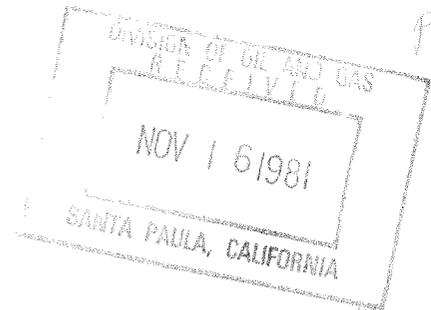
- Move in and rig up. Kill well. Install BOPE and pressure test.
- Pull tubing. Recover casing patch set 3010' - 2968'. Squeeze leak in stage collar with cement and pressure test. Run 7" 29# N-80 Hydril triple seal inner string and land on packer near 7900'.
- Set packer near 7850'. Run tubing and land on packer.
- Return well to gas storage service.

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

Address P.O. Box 3249 Terminal Annex Southern California Gas Co.
(Street) (Name of Operator)
Los Angeles, CA 90051 By J.P. Anand
(City) (State) (Zip) (Print Name)
Telephone Number (213) 689-3925 J.P. Anand 3-23-83
(Signature) (Date)

PW

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



History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Los Angeles
Well IW #69, Sec. 28, T. 3N, R. 16W, S. B.P. & M.
A.P.I. No. 037-21322 Name P.S. Magruder, Jr. Title Agent
Date November 5, 19 81
(Person Submitting report) (President, Secretary or Agent)

P.S. Magruder, Jr.
Signature

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

MWO#99831--To install casing patch across leaking stage collar.

1981

- 10-19 1st Day. Moving SPS Rig M-30 from La Merced #34 to IW #69. Rigging up.
- 10-20 2nd Day. Installed 13-5/8" 5000 psi BOPE. Tested blind rams and pipe rams to 4000 psi for 20 minutes. Tested Hydril to 3000 psi for 20 minutes. Set in working platform. Working latch-in-locator and 4 seals out of Otis packer from 8200' to 8191'.
- 10-21 3rd Day. Pulled out of packer at 8200'. Measured out of well with 2-7/8" tubing. Layed down Otis production equipment. Ran in well with 7-5/8" bit and casing scraper. Circulated well clean at top of liner at 7916'. Pulling out of well.
- 10-22 4th Day. Finished pulling out of well. Ran in well with 5-5/8" bit and casing scraper to packer at 8200'. Circulated well clean. Pulled out of well. Picked up 340' 2-3/8" non-upset tubing with sawtooth collar. Running in well.
- 10-23 5th Day. Finished running in well with sawtooth collar. Located fill at 8456' and cleaned out to 8496'. Circulated well clean. Pulled to 8200' and circulated clean. Pulled out of well. Layed down 2-3/8" tubing. Rigged up Welex. Ran collar locator and confirmed stage collar at top 2990', bottom at 2992'. Ran kill string in well. Made up Pengo casing patch.
- 10-24 6th Day. Made up Pengo 8-5/8" casing patch. Made up bottom element on Pengo patch which split. Layed down Pengo patch while waiting on parts. Changed out 2-7/8" collars to turned down a total of 162 collars. Pulling out of well.
- 10-26 7th Day. Made up and ran Pengo casing patch. Set bottom at 3010' and top at 2968'. Ran tubing with two seal assemblies and stabbed into packer at 8200'. Pressure tested packer and casing patch to 1500 psi with H&H pump. Held for 20 minutes.

- 10-27 8th Day. Bled off 500 psi on casing. Circulated out gas from 2500'. Staged into top of liner and circulated out gas cut drilling fluid.
- 10-28 9th Day. Pulled out of well. Made up Otis 4 seal assembly and safety system. Drifted and hydro-tested tubing to 5000 psi. Ran in well and spaced out tubing. Stabbed in packer at 8200' with 14,000# on packer. Landed on doughnut with 29,000#. Removed working platform.
- 10-29 10th Day. Removed BOPE. Installed xmas tree and tested to 5000 psi. Circulated polymer completion fluid out of well with lease waste water. Rig released at 6:30 P.M., 10-29-81.

REPORT ON PROPOSED OPERATIONS

010
(field code)
03
(area code)
30
(new pool code)
30
(old pool code)

Mr. Kern Guppy, Agent
Southern Calif. Gas Co.
12801 Tampa Ave.
Northridge, CA 91324

Santa Paula, California
Oct. 26, 1981

Your _____ proposal to repair casing in
gas storage well IW 69
A.P.I. No. 037-21322, Section 28, T. 3N, R. 16W, SB B. & M.,
Aliso Canyon field, Main area, Sesnon-Frew pool
Los Angeles County, dated 10/9/81, received 10/21/81 has been examined in conjunction with record
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of sufficient quality and quantity shall be maintained in the hole to control any subsurface condition, and a reserve supply shall be on hand for emergencies.
2. Blowout prevention equipment of at least DOG Class III 3M, with a hydraulic actuating system, shall be installed and maintained in operating condition at all times.

Blanket Bond
MS:b

M. G. MEFFERD, State Oil and Gas Supervisor

By John L. Gardoin, Deputy Supervisor

**A copy of this report and the proposal must be posted at the well site prior to commencing operations.
Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.**

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.

RECEIVED
OCT 16 1981
DIVISION OF OIL & GAS
BAKERSFIELD

DIVISION OF OIL AND GAS
RECEIVED
OCT 21 1981
SANTA PAULA, CALIFORNIA

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
36	<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 IW #69 (Well designation), API No. 037-21322
Sec. 28, T. 3N, R. 16W, SB. B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 8917'
- Complete casing record, including plugs and perforations
 - 13-3/8" cemented 806'
 - 8-5/8" cemented 8112', cp'd 2990', WSO 8075'
 - 992' 6-5/8" cemented 8908', plugged to 8496'
 - perforated 8400'-8325', 8320'-8300', 8285'-8270'
 - and 8250'-8240' WSO 8226'
- Present producing zone name Sesnon; Zone in which well is to be recompleted -
- Present zone pressure 2800 psi; 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/D) (Surface pressure, psig)

The proposed work is as follows:

- Move in & rig up. Kill well. Install BOPE & pressure test.
- Pull tubing. Clean out to 8496'.
- Set casing patch 2970'-3010' over stage collar at 2990'.
- Run tubing with down hole safety system.
- Return well to gas storage service.

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) Southern California Gas Company (Name of Operator)
LA (City) CA (State) 90051 (Zip) By P.S. Magruder, Jr. (Print Name)
 Telephone Number (213) 689-3561 P.S. Magruder, Jr. (Signature) 10/9/81 (Date)

DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL AND GAS
 RECEIVED
 AUG 5 1976
 SANTA PAULA, CALIFORNIA

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. I.W. #69, Sec. 28, T. 3N, R. 16W, S.B. B. & N

Date July 30, 1976

Signed P. S. Magruder, Jr.
 P. S. MAGRUDER, Jr.

P. O. Box 3249, Terminal Annex
Los Angeles, California 90051

Title Agent

(Address) (213) 689-3561 (Telephone Number)

(President, Secretary or Agent)

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

Date

7-9-76

Moved rig and mud pump from Standard-Sesnon #25 to I. W. #69.

7-10-76

Circulated hole to get gas out. Removed Christmas tree. Installed 8" 5000 psi B.O.P.E. Pressure tested complete shut-off rams to 4000 psi for 20 minutes - O.K. Tested 2 7/8" tubing rams to 4000 psi for 20 minutes - O.K. Tested Hydril to 3000 psi for 20 minutes - O.K. All tests were made with water. Tested complete shut-off rams, 2 7/8" tubing rams to 4000 psi for 20 minutes with nitrogen, tested Hydril to 3000 psi for 20 minutes - O.K. Removed valve from doughnut. Pulled 2 7/8" tubing.

7-11-76

Idle.

7-12-76

Ran in with 7 5/8" bit and 8 5/8" casing scraper to top of 6 5/8" liner at 7922'. Circulated bottoms up and free of gas cut mud. Pulled out and ran in with 5 5/8" bit and 6 5/8" casing scraper to top of 6 5/8" liner.

7-13-76

Ran 5 5/8" bit and 6 5/8" casing scraper to 8511'. Cleaned out from 8511' to 8603'. (Permanent bridge plug had moved up hole.)

7-14-76

Ran 2 7/8" tubing to 8595'. Mixed and pumped in place 30 sacks of Class "G" cement to fill from 8603' to 8423' in 6 5/8" liner. Cement in place at 7:00 a.m. Laid down 18 joints of cemented tubing. Ran in with 5 5/8" bit and 6 5/8" casing scraper and located top of cement plug at 8496'.

7-15-76

Installed McCullough lubricator. McCullough jet perforated four 1/2" holes per foot with 4" Tubular Carrier gun in 6 5/8" liner from intervals of 8400' to 8364'; 8355' to 8325'; 8320' to 8312'; 8308' to 8300'; 8285' to 8282'; 8280' to 8270'; and 8250' to 8240', 420 holes. Tore out lubricator. Ran in hole with 5 5/8" bit and 6 5/8" casing scraper to top of 6 5/8" liner.

7-16-76

Ran 5 5/8" bit and casing scraper to 8496'. Circulated and conditioned polymer fluid. Ran in Baker Model "B" retrievable retainer and set in 6 5/8" liner at 8188'.

7-17-76

Pulled out Baker Model "B" running tool. Ran in Baker fullbore squeeze tool and set in 8 5/8" casing at 5000'. Tested 8 5/8" and 6 5/8" casing, as follows, with Halliburton pump truck:

5000' to 8188'	1200 psi for 20 minutes)	
5000' to Surface	1500 psi " 20 ")	
4000' to "	2000 psi " 20 ")	
3500' to "	2300 psi " 20 ")	
3000' to "	2500 psi " 20 ")	All tests O.K.
2500' to "	2800 psi " 20 ")	
2000' to "	3000 psi " 20 ")	
1500' to "	3300 psi " 20 ")	
1000' to "	3500 psi " 20 ")	
500' to "	4000 psi " 20 ")	

Pulled out Baker squeeze tool. Ran in with Baker Model "B" retrieving tool.

7-18-76

Idle.

7-19-76

Laid down Baker plug and retrieving tool. Ran in with McCullough full gauge on wire line to 8220'.

7-20-76

Ran Otis 6 5/8" permatrieve packer on wire line and set at 8200'.

7-21-76

Hydrotesting 2 7/8" tubing each joint to 5000 psi for one minute. Removed tubing collars, cleaned pins and applied Baker seal.

7-22-76

Landed tubing in packer at 8200' with 10,000#, pulled up to check latch with 15,000# over weight of tubing. Set back pressure valve in doughnut. Removed B.O.P.E. Installed Christmas tree and tested to 5,000 psi for 2-20 minutes test. Circulated drilling fluid out of well with lease salt water. Set tubing plug in No-Go nipple and pressure tested seals and packer to 1800 psi. Released rig at 10:00 p.m.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 276-231

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

Santa Paula, Calif.
July 9, 1976

DEAR SIR: plug and alter casing (037-21322)
Your proposal to in gas storage Well No. IW 69
Section 28, T. 3N, R. 16W, S.B.B. & M., Aliso Canyon Field, Los Angeles County,
dated 6/25/76, received 6/29/76, has been examined in conjunction with records filed in this office.

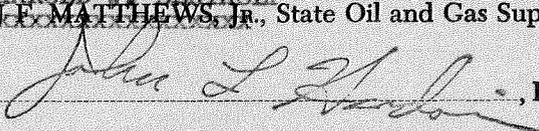
THE PROPOSAL IS APPROVED PROVIDED THAT:

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 the 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

HAROLD W. BERTHOLF
JOHN F. MATTHEWS, Jr., State Oil and Gas Supervisor

By  Deputy



JUN 29 1976

DIVISION OF OIL AND GAS
Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If approval has 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
BB	✓	✓

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. - #69, 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. 8917'
- Complete casing record, including plugs and perforations:
 - 13 3/8" cemented 806'
 - 8 5/8" cemented 8112', stage collar 3000', WSO 8075'
 - 982' 6 5/8" cemented 890', WSO 8226' *SEE HISTORY PRODUCTION TEST INTERV NG*
 - Four 1/2" holes per foot 8702'-8724'. Bridge plug 8686'.
 - Four 1/2" holes per foot 8364'-8355', 8312'-8308' and 8282'-8280'
 - Squeezed lap at 7926' with 800 cu.ft.
 - Cement plug at 8903'
- Present producing zone name SESNON Zone in which well is to be recompleted -
- Present zone pressure 3200 psi 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 rig, kill well, install B.O.P.E. and pressure test.
- Pull tubing. Clean out to 8686'. Plug with cement at 8686'-8520'.
- Shoot four 1/2" holes per foot 8400'-8364', 8355'-8325', 8320'-8312', 8308'-8300', 8285'-8282', 8280'-8270' and 8250'-8240'. Clean out to 8520'.
- Pressure test 8 5/8" casing. Perform any remedial work indicated.
- Run packer, tubing and safety valve. Return 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 (213) 689-3561

SOUTHERN CALIFORNIA GAS COMPANY
(Name of Operator)
By P. S. Magruder, Jr. 6/25/76
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

Operator Pacific Lighting Service Company Well No. IW 69

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

Location From Station 84, 814' South and 5373' West

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

Elevation of ground above sea level 2927 feet USGS

All depth measurements taken from top of Kelly Bushing which is 15 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 October 24, 1973

Signed P. S. Magruder, Jr.
P. S. Magruder, Jr.
Agent
(President, Secretary or Agent)

E. A. Olson
(Engineer or Geologist)

B. F. Jones
(Superintendent)

Commenced drilling	<u>November 2, 1972</u>	GEOLOGICAL MARKERS	DEPTH
Completed drilling	<u>December 7, 1972</u>	<u>Top Sesnon Zone S4</u>	<u>8240'</u>
Total depth	<u>8917'</u>	<u>Top Frew Zone</u>	<u>8672'</u>
Plugged depth	<u>8903'</u>		
Junk	<u>3 cones & stabalizer blade at 8917'.</u>		

Geologic age at total depth: Eocene

Commenced producing 12-23-72 Flowing/gas lift/pumping Name of producing zone Sesnon
(Date) (Cross out unnecessary words)

Initial production 9
12
Production after ~~30~~ days 15

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
9	Condensate	69	1278	1500#	-
15	"	46	3670	1190#	-

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
13-3/8	806	sfc	48#	N	S	H-40	17-1/2	544	
8-5/8	8112	sfc	36#	N	S	N-80 K-55	11	470 310	Shoe 3000
6-5/8	8908	7926	28#	N	S	K-55	7-5/8	146	

PERFORATED CASING

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

8-5/8" - Four 1/2" jet holes at 8075', WSO approved by Division of Oil & Gas

6-5/8" - Four 1/2" jet holes at 8226', WSO by Company

- Four 1/2" jet holes per foot for production 8280-82, 8308-12, 8355-64

- Four 1/2" jet holes per foot 8702-24 isolated by bridge plug at 8686'

Was the well directionally drilled? Yes Electrical Log Depths 8112' & 8910' (Attach Copy of Log)

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Pacific Lighting Service Company FIELD Aliso Canyon

Well No. IW 69, Sec. 28, T. 3N, R. 16W, SB B. & N

Date October 24, 19 73

Signed

P. S. Magruder, Jr.
 P. S. Magruder, Jr.

P. O. Box 54790, Terminal Annex

Los Angeles, Calif. 90054 (213) 689-3651

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 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 Company, rig #8.

All measurements taken from top of kelly bushing which was 15' above concrete mat.

- 11-2 Spudded 11" hole at 4:15 AM and drilled to 371'. Lost circulation at 67' & 371'. Treated mud with fiber and cottonseed hulls.
- 11-3 Attempting to regain circulation. Drilled and surveyed 11" hole to 779' without circulation.
- 11-4 Drilled and surveyed 11" hole to 808'. No circulation. Opened 11" hole to 17-1/2" from surface conductor to 714'. No circulation.
- 11-5 Opened hole to 17-1/2" to 808'. TO CEMENT 13-3/8" SURFACE CASING: Ran 20 joints or 808.19' of 13-3/8", 48#, H-40, R-3, 8 rd, ST&C, new seamless casing and cemented same at 806' with 352 cu. ft. of Class "G" 1:1 Perf-A-Lite cement with 4% gel and 3% calcium chloride mixed to 90#/cu. ft. slurry. Casing fitted on bottom with guide shoe and 10' above shoe with one centralizer. No circulation and no cement to surface. Bumped one top rubber plug under 500# final pressure. Cement in place at 12:30 PM. Ran 1" pipe to 80' and pumped in 25 sacks Class "G" with 3% calcium chloride. CIP at 12:45 PM. Second 25 sacks cement in place at 3:10 PM. 125 sacks cement in place at 4:30 PM. No cement to surface.
- 11-6 With 1" pipe hanging at 80' pumped in 50 sacks Class "G" 1:1 Perf-A-Lite cement mixed with 4% gel and 3% calcium chloride. Preceded cement with 10 sacks of LCM. CIP at 12:30 AM; second 25 sack stage in place at 2:45 AM; and third stage of 100 sacks same mix in place at 5:15 AM with cement to surface. Cut and recovered 13-3/8" casing, installed head and GK Hydrill and double Shaffer hydraulic BOP. Casing head weld tested twice to 3500# psi for 10 minutes OK.
- 11-7 11 hours repairing equipment. BOP tested to 1500# psi for Division of Oil & Gas. Drilled out plug and shoe at 806'.

1972

- 11-8 Drilled and surveyed 11" hole to 871'. Pow-R-Drill 11" hole to 970'.
Mud: 75#, 36 sec., 10 cc., 2% solids.
- 11-9 Reamed 11" hole from 871' to 970' and drilled and surveyed to 1472'.
Mud: 67#, 38 sec., 8.8 cc., 4% solids.
- 11-10 Drilled and surveyed 11" hole to 2186'.
Mud: 72#, 39 sec., 8.6 cc., 6% solids.
- 11-11 Drilled and surveyed 11" hole to 2992'.
Mud: 70#, 40 sec., 8.3 cc., 7% solids.
- 11-12 Drilled and surveyed 11" hole to 3739'.
Mud: 72#, 36 sec., 8.5 cc., 7% solids.
- 11-13 Drilled and surveyed 11" hole to 4301'. Reamed 3420'-3940' on trip.
Mud: 71#, 42 sec., 8.3 cc., 6-1/2% solids.
- 11-14 Drilled and surveyed 11" hole to 4705'. Reamed 2040'-2112'.
Mud: 70#, 39 sec., 8.3 cc., 5% solids.
- 11-15 Drilled and surveyed 11" hole to 4838' and Dyna drilled 11" hole to 4963'.
Worked tools past tight place in 13-3/8" casing at 763'.
Mud: 71#, 40 sec., 7.2 cc., 6% solids.
- 11-16 Dyna drilled 11" hole to 4980', run #2, and Dyna drilled to 5016' on run #3.
Worked tools past tight place at 763'.
Mud: 70#, 45 sec., 6.6 cc., 5% solids.
- 11-17 Reamed from 4937' to 5007' and directionally drilled 11" hole to 5140'.
Reamed 4870'-5078' on bit change.
Mud: 71#, 44 sec., 7.5 cc., 6% solids.
- 11-18 Directionally drilled 11" hole to 5400'. Reamed 5190'-5200' on bit change.
Mud: 71#, 40 sec., 7 cc., 6% solids.
- 11-19 Dyna drilled 11" hole to 5400'-5519', run #4. Reamed 5400'-5519' and directionally drilled 11" hole to 5745'.
Mud: 71#, 43 sec., 7 cc., 6% solids.
- 11-20 Directionally drilled 11" hole to 6051'. Dyna drilled 11" hole to 6170', run #4.
Mud: 73#, 49 sec., 7 cc., 8% solids.
- 11-21 Dyna drilled 11" hole to 6172'. Reamed 6051'-6170' and directionally drilled 11" hole to 6656'.
Mud: 72#, 42 sec., 7.3 cc., 8% solids.
- 11-22 Directionally drilled 11" hole to 7234'.
Mud: 73#, 49 sec., 7.2 cc., 9% solids.

1972

- 11-23 Directionally drilled 11" hole to 7480'. Delayed 8 hours account of high winds. Mud: 72#, 46 sec., 7 cc., 7% solids.
- 11-24 Directionally drilled 11" hole to 7706'. Reamed 7550'-7573' on bit change. Mud: 72#, 44 sec., 6.7 cc., 7% solids.
- 11-25 Directionally drilled 11" hole to 7928'. Reamed 7730'-7761' on bit change. Mud: 72#, 45 sec., 6.8 cc., 8% solids.
- 11-26 Directionally drilled 11" hole to 8116'. Reamed 7990'-8023' on bit change. Mud: 71#, 44 sec., 6.7 cc., 6% solids.

11-27 Ran Welex Induction Electric log and recorded from 13-3/8" shoe to 8111'. Reamed from 6975 to 8116' and conditioned hole for casing.
TO CEMENT 8-5/8" CASING: Ran 202 joints or 8117.94 feet of 8-5/8", 36#, K-55 and N-80, Buttress thread, R-3, new seamless blank casing and cemented same at 8112' with 1084 cu. ft. of 96#/cu. ft. slurry consisting of 370 sacks Class "G" cement, 370 cu. ft. of Pozmix D, 21 sacks of gel, followed by 100 sacks Class "G" with 2% calcium chloride mixed to 116#/cu. ft. slurry. Moved casing 10' and circulated 30 minutes prior to cementing and for 35 minutes while mixing and displacing cement. Preceded cement with 100 cu. ft. water and displaced with 10 cu. ft. water and 2810 cu. ft. of mud to bump plug to place at 3:45 AM under 3500# final pressure. Held 3500# pressure for 16 minutes. Bled back 23 cu. ft. for total displacement of 2787 cu.ft. Full circulation throughout job. Dropped plug and opened stage collar at 3000' under 1000# pressure. Preceded cement with 50 cu. ft. water. Pumped in 909 cu. ft. of 95#/cu. ft. slurry consisting of 310 sacks Class "G" cement, 310 cu. ft. Pozmix D, 18 sacks gel and displaced with 10 cu. ft. water and 1030 cu. ft. of mud to bump plug and close collar under 2000# pressure at 6:45 AM. Bled back 3 cu. ft. for total displacement of 1037 cu. ft. Good circulation throughout job. Cement returns to surface. Used Howco bulk cement and power.

CASING DETAIL

Bottom 66 joints or 2690' (8112'-5422') N-80 fitted on bottom with Davis fill-up float shoe and at 8069' with Davis fill-up float collar. TIW turbo centralizers at 8102', 8059', 8022', 7980' and 7940'.

Next 136 joints or 5422' (5422'-0) K-55 fitted with metal petal basket at 5021' and 1414' with centralizers one joint above and below each basket. Stage collar at 3000' with one centralizer on joint above.

Total 202 joints or 8112'.

Removed BOP, cut and recovered 8-5/8" casing, installed secondary packing and bit guide.

11-29 Installed BOP and test OK to 1250# pressure. Ran 7-5/8" bit with casing scraper above and drilled out stage collar at 3000'. Drill out cement 8067'-8085'.

1972

- 11-29 (cont'd) TO TEST WATER SHUT-OFF ON HOLES IN 8-5/8" CASING AT 8075': Ran Johnston combination gun and tester on 5" drill pipe and shot four 1/2" jet holes at 8075'. Set packer at 8009' with tail to 8037'. Opened tool at 8:20 PM for one hour test. Light blow 2 minutes, dead balance of test. Recovered 120' mud rise. Charts OK. Water shut-off approved by company test and approved by ENGINEER FOR DIVISION OF OIL & GAS.
- 11-30 Rig up to drill with aerated mud.
- 12-1 Ran 7-5/8" bit and drilled out shoe at 8112' and drilled to 8267'.
Mud: 70#, 47 sec., 8.0 cc., 5% solids.
- 12-2 Drilled 7-5/8" hole to 8297' where circulation was lost. Pull to 8100' and added lost circulation material to mud.
Mud: 69#, 39 sec., 7.5 cc., 5% solids.
- 12-3 Drilled 7-5/8" hole to 8456' with no circulation to full circulation. Estimate hole took 800 barrels of mud. Added LCM to aerated mud and after obtaining full circulation, shook out LCM.
Mud: 69#, 38 sec., 7.6 cc., 5% solids.
- 12-4 Drilled 7-5/8" hole to 8590' with full circulation.
Mud: 69#, 40 sec., 8.0 cc., 5% solids.
- 12-5 Drilled 7-5/8" hole to 8755' and conditioned hole for log.
Mud: 69#, 42 sec., 7.8 cc., 6% solids.
- 12-6 Ran Schlumberger Dual Induction-Laterolog, Compensated Formation Density Log, and Compensated Neutron-Formation Density Log.
Drilled 7-5/8" hole to 8890'.
Mud: 70#, 42 sec., 8.4 cc., 6% solids.
- 12-7 Drilled 7-5/8" hole to 8917' TOTAL DEPTH: All cones lost off bit plus one blade from stabilizer.
- 12-8 Ran Schlumberger suite of logs as on 12/6/72. Condition hole for liner.
- 12-9 TO CEMENT 6-5/8" LINER: Ran 23 joints or 982.59' of 6-5/8", 27.65#, K-55, Security and Vetco flush joint, R-3, new seamless blank casing as liner. All water and mud lines and cement truck frozen. Set liner at 8908' with liner hanger at 7926'. Thawed out lines and obtained another cement truck. Cemented liner with 265 cu. ft. of 95#/cu. ft. slurry consisting of 146 sacks of Class "G" cement, 146 cu. ft. of Perf-A-Lite, and 27 sacks of gel. Displaced with 996 cu. ft. of mud to latch wiper plug under 1800# pressure. Bled back 5 cu. ft. cement in place at 3:50 PM. Used B-J bulk cement and power.

1972

12-9 LINER DETAIL

(cont'd) All 23 joints or 982.59' 6-5/8" blank casing fitted on bottom with Davis-Lynch plug catching shoe and on top with Texas Iron Works liner setting collar. Turbo centralizers at 8898', 8858', 8808', 8758', 8698', 8358', 8263', 8082' and 7956'. Scratcher clusters at 8702', 8693', 8363', 8353', 8268' and 8258'.
Top four joints are Vetco thread with cross overs to Security thread at top and bottom. Liner setting collar is .97' long with top at 7926'.

- 12-10 Ran 7-5/8" bit with casing scraper above and cleaned out to liner top. Remove and replace frozen section of flow line, remove air drilling equipment. Run 5-5/8" bit with casing scraper above.
- 12-11 Shut down to work on frozen lines. Ran in to 8903' EFFECTIVE DEPTH closed rams and lap took fluid at 800# pressure.
- 12-12 TO SQUEEZE 6-5/8" x 8-5/8" LAP WITH CEMENT: Ran Johnston retrievable cementer on 7830' of 5" 19.5# drill pipe and set tool at 7826'. Lap took fluid at rate of 30 cu. ft. minute under 800# pressure. Preceded 100 sacks Class "G" cement mixed to 116#/cu. ft. slurry with 20 cu. ft. of water and displaced with 10 cu. ft. of water and 630 cu. ft. of mud to close tool. Stage cemented using additional 166 cu. ft. of mud to squeeze 95 sacks cement away under 100# final pressure. Bled back 3 cu. ft. for final displacement of 803 cu. ft. CIP at 5:20 AM. Used Howco bulk cement and power.
Ran 7-5/8" bit with casing scraper above and drilled out cement from 7866' to liner top at 7926'. Closed rams and lap held 2000# pressure for 15 minutes, OK.
- 12-13 TO TEST WATER SHUT-OFF ON 6-5/8" x 8-5/8" LAP AT 6926': Ran Johnston tester on 5", 19.5# drill pipe. Set packer at 7897' with tail to 6914'. Opened tool at 4:45 PM for one hour test. Light blow for one minute, dead balance of test. Recovered 30' rise of drilling fluid. Charts OK. Water shut-off approved by company test.
Ran Go International cement bond and neutron logs.
- 12-14 Go International shot 4-1/2" jet holes at 8226', Dual Induction log depth run 12/6/72.
TO TEST WATER SHUT-OFF ON HOLES IN 6-5/8" LINER AT 8226': Ran Johnston Tester on 5", 19.5# and 3-1/2" 15.5# drill pipe and set packer at 8183' with tail to 8200'. Opened tool at 10:43 AM for one hour test. Light blow one minute, dead balance of test. Recovered 50' rise of drilling fluid. Charts OK. Water shut-off approved by Company Test.
- 12-15 Ran Dresser Atlas 4" O. D. "Golden Jet" gun and shot four 1/2" jet holes per foot from 8712' to 8716', Dual Induction log depth.
PRODUCTION TEST ON HOLES IN 6-5/8" LINER FROM 8712' to 8716': Ran Johnston Tester with MFE tool on 5", 19.5# and 3-1/2", 15.5# drill pipe with 1500' of fresh water cushion. Set packer at 8687' with tail to 8705'. Opened tool at 8:55 AM for 5 minute initial flow. Shut-in for 20 minute initial shut-in.

1972

12-15 (cont'd) Reopened tool at 9:22 Am. Faint blow throughout 2 hour 14 minute final flow period. No gas to surface. Took 1 hour final shut-in pressure. Recovered 30' net rise of drilling fluid. Sampler contained 1250 cc. water testing 30 grain per gallon sodium chloride, trace of oil, 0#, 178 deg. F.

<u>PRESSURE RECORDER DATA</u>	<u>PSIG</u>
INITIAL HYDROSTATIC	4212
INITIAL FLOW	858
INITIAL SHUT-IN	1676
FINAL FLOW	905
FINAL SHUT-IN	1676
FINAL HYDROSTATIC	4212

Ran Dresser Atlas 4" O.D. "Golden Jet" gun and shot four 1/2" jet holes per foot at Dual Induction log depths of: 8280'-8282', 8308'-8312', 8355'-8364'.

12-16 & 12-17 PRODUCTION TEST ON HOLES IN 6-5/8" LINER 8280' to 8282', 8308' to 8312', 8355' to 8364', 8712' to 8716': Ran Johnston Tester with MFE tool on 5" & 3-1/2" drill pipe with 1000' of fresh water cushion. Set packer at 8250' with tail to 8268'. Opened tool at 6:35 AM for 5 minutes initial flow period. Took 30 minute initial shut-in and reopened tool at 7:10 AM. Flowed well through Getty Oil Company trap and meter setting, increasing bean from 1/8 at beginning of test to 3/4" after open 1 hr. & 6 minutes. Shut-in at surface at 10:10 AM after open 3 hours. Took one hour surface shut-in. Reopened tool at 11:10 AM and continued to flow well until 6:10 PM when well shut-in at tool for pressure buildup. At end of test well flowing at 5700 MCF/D rate with 972# psig surface pressure. Automatic Tester showed recovery of 24 barrels of fluid, 11 barrels which would be water cushion and rat hole volume; 9.8 barrels of oil or condensate and 3.2 barrels of water. Recovered 240' rise in 3-1/2" drill pipe; top 100' gasoline, next 125' watery mud and 15' of fine to medium grained sand. Maximum salinity 22 grains per gallon sodium chloride.

<u>PRESSURE RECORDER DATA (DEPTH 8264)*</u>	<u>PSIG</u>
INITIAL HYDROSTATIC	3867
INITIAL FLOW	1172
INITIAL SHUT-IN	1956
SECOND FLOW	1627
SECOND SHUT-IN	1948
FINAL FLOW	1592
FINAL SHUT-IN	1936
FINAL HYDROSTATIC	3829

* Refer to Johnston Technical report #19946B.

Ran 5-5/8" bit with casing scraper above and cleaned out to 8903'
EFFECTIVE DEPTH. NO SAND.

1972

- 12-16 & 12-17 (cont'd) PRODUCTION RETEST ON HOLES IN 6-5/8" LINER FROM 8712' to 8716': Ran Johnston Tester on 3-1/2", 15.5# & 5" 19.50# drill pipe with 1000' of water cushion and set packer at 8625' with tail to 8642'. Opened tool at 9:30 PM. Faint blow during 12 minute test. Closed tool at 9:42 PM. No gas to surface. Recovered 10' rise of drilling fluid. Charts OK. See Johnston Technical report #19947B.
- 12-18 Dresser Atlas ran 4" O.D. "Jumbo Jet" gun and shot four 1/2" holes per foot at Dual Induction log depth 8702' to 8712' and 8716' to 8724'.
PRODUCTION TEST ON HOLES IN 6-5/8" LINER FROM 8702' to 8724': Ran Johnston Tester on 3-1/2" and 5" drill pipe with 1000' water cushion. Set packer at 8625' with tail to 8642'. Opened tester at 7:22 AM. Faint blow during 24 minute test. No gas to surface. Recovered zero net rise. Charts inconclusive. NO TEST.
PRODUCTION RETEST ON HOLES IN 6-5/8" LINER FROM 8702' to 8724': Ran Johnston Tester on 3-1/2" & 5" drill pipe with 1000' water cushion. Set packer at 8625' with tail to 8642'. Opened tester at 3:55 PM. Recycled tool after tool open 10 minutes. Faint blow while tool open total of 1 hour 12 minutes. Recovered 120' rise of drilling fluid in 3-1/2" drill pipe. Charts OK. Determined holes not contributing on test covering holes from 8280' to 8716'.
- 12-19 Dresser Atlas set Baker Model N bridge plug in 6-5/8" liner at 8686'. Ran Baker full bore cementer on 3-1/2" and 5" drill pipe and set at 8450'. Applied 3500# pressure using Halliburton power and held OK for 90 minutes. Plug at 8686' effective. Removed BOP, installed 8-5/8" secondary packing and Shaffer tubing head and tested same with 3420 psi for 15 minutes OK.
- 12-20 Reinstalled BOP and ran open end 3-1/2" and 5" drill pipe to 8680'. Displaced mud in hole with 3#/bbl. DMS, 15 gallons of hydrozine and 37-1/2 gallons each of DI 669 bacteriaicide and 97 corrosion inhibitor.
- 12-21 Ran 262 joints of 2-7/8", 6.5#, N-80 & K-55, 8rd. upset and seal lock, R-3 new seamless tubing and landed same on doughnut at 8158'.

TUBING DETAIL

Bottom 260 joints or 8080.68' is N-80 8rd fitted on top with
8rd to seal lock crossover.
Next 2 joints or 63.17 is K-55 seal lock tubing including doughnut.

K. B. to tubinghead 14.00

Tubing landed at 8157.85
Removed BOP and installed Christmas Tree.
RIG RELEASED at 9:00 AM, 12/21/72.

SURVEY RECORD

JOB NO. IM-69 ONE DATE 12-7-1972
 VERT. SUB SEA 2927' ELEVATION 2942'
 K.B. 15' 814' SOUTH & 5373' WEST OF STATION 84

MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DIRECTION	RECTANGULAR COORDINATES				REMARKS
					NORTH	SOUTH	EAST	WEST	
120	.30	120 00	1 04	S 82 W	1 45			1 03	
330	.30	330 00	1 83	N 29 E		15		15	
516	2.00	515 82	6 49	N 86 E	1 90		6 33		
600	1.30	599 85	2 20	S 88 E	1 82		8 53		
695	1.45	695 82	3 93	N 88 E	1 81		11 46		
808	1.45	807 76	3 12	N 75 E	2 81		11 77		
860	1.45	859 74	1 59	N 69 E	3 38		16 25		
907	.30	906 74	4 11	S 22 W	3 00		16 10		
1040	3.15	1039 53	7 54	N 04 W	10 52		15 57		
1100	3.30	1099 42	3 66	N 10 W	11 12		14 94		
1216	3.15	1215 82	6 58	N 21 W	20 26		12 58		
1472	3.15	1470 82	14 51	N 14 W	34 33		9 07		
1748	2.30	1746 55	12 04	N 13 W	46 06		6 36		
2071	3.15	2069 03	18 31	N 10 W	60 09				
2594	2.30	2591 51	22 80	N 55 W	73 17				
2710	3.00	2707 35	6 07	N 53 W	76 82				
3030	2.45	3026 97	15 36	N 75 W	80 79				
3333	2.00	3329 79	10 57	N 59 W	86 23				
3460	2.00	3456 71	4 43	N 64 W	88 17				
3850	1.30	3846 59	10 22	N 12 W	98 17				
3988	1.30	3984 55	3 61	N 05 W	101 77				
4085	1.45	4081 50	2 96	N 05 W	104 72				
4208	2.00	4204 43	4 06	N 26 E	108 58				
4301	2.30	4297 34	11 06	N 26 E	112 23				
4503	4.00	4498 86	14 10	N 51 E	121 98				
4705	6.00	4699 75	21 11	N 71 E	127 98				
4938	7.00	4931 00	28 40	N 73 E	136 29				
4958	7.15	4950 82	2 70	N 60 E	137 64				
4981	9.30	4973 50	3 80	N 49 E	140 13				
5047	11.45	5038 12	13 44	N 39 E	150 57				
5200	12.30	5187 49	33 11	N 36 E	177 36				
5400	12.30	5382 75	43 28	N 35 E	212 81				

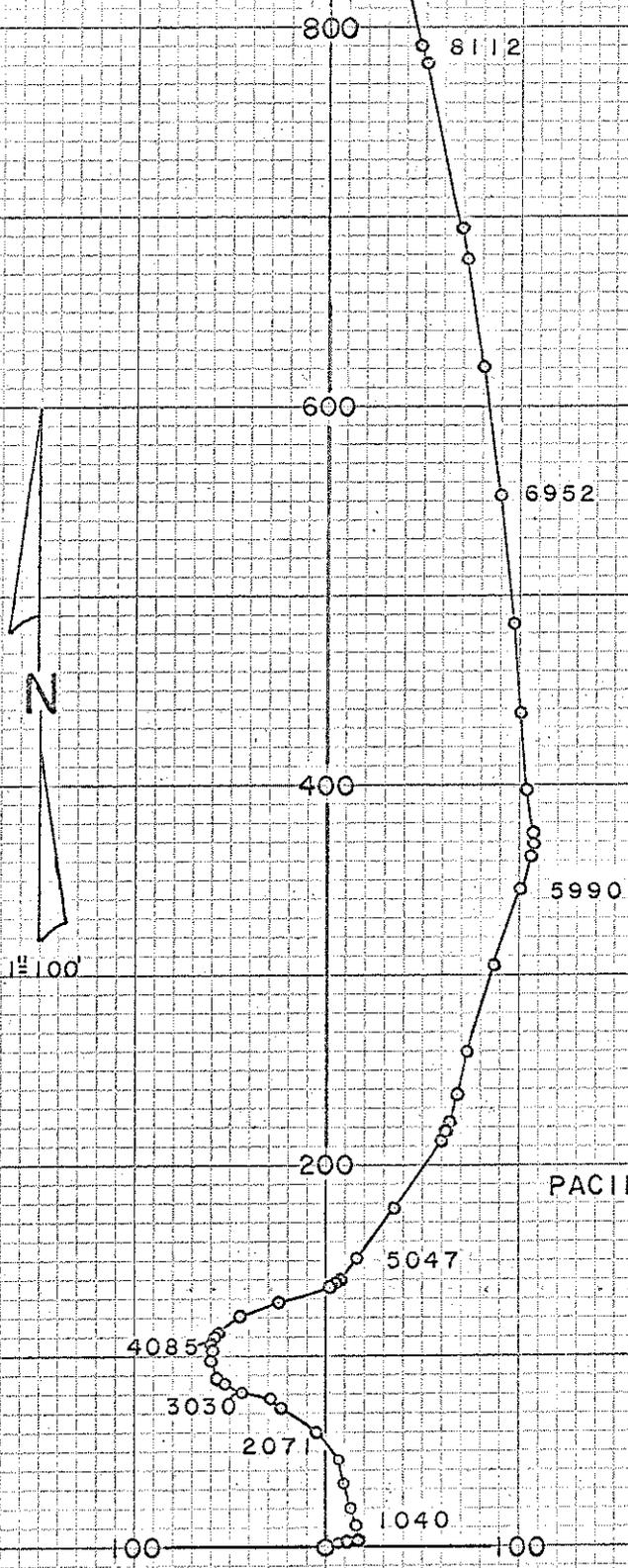
RECEIVED
 DIVISION OF OIL AND GAS
 SANTA PAULA, CALIFORNIA
 AUG 21 1975

SURVEY RECORD

JOB NO. TM-69 TMO DATE 12-7-1972

MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES				REMARKS
					NORTH	SOUTH	EAST	WEST	
33 5422	11.30	5404	4 39	N 27 E	216	72	62	16	
34 5453	11.15	5434	6 31	N 21 E	222	61	61	12	
35 5519	13.00	5498	14 85	N 13 E	237	08	67	76	
36 5610	15.00	5586	23 55	N 41 E	259	93	73	45	
37 5804	14.15	5774	47 76	N 17 E	305	61	87	41	
38 5990	13.15	5955	42 63	N 19 E	345	92	101	29	
39 6076	12.00	6040	17 88	N 15 E	363	19	105	92	
40 6107	11.30	6070	6 18	N 07 E	369	33	106	67	
41 6135	11.30	6097	5 58	N 01 W	374	91	106	57	
42 6238	12.30	6198	22 29	N 06 W	397	08	104	24	
43 6425	12.30	6381	40 47	N 05 W	437	40	100	71	
44 6642	12.45	6592	47 89	N 04 W	485	18	97	37	
45 6952	12.45	6895	68 42	N 06 W	553	23	90	22	
46 7260	12.45	7195	67 98	N 08 W	620	55	80	76	
47 7573	10.45	7502	58 37	N 09 W	678	21	71	63	
48 7671	10.00	7599	17 02	N 10 W	694	97	68	68	
49 8023	12.45	7942	77 69	N 13 W	770	67	51	20	
50 8100	13.15	8017	17 65	N 13 W	787	86	47	23	
THE FOLLOWING SURVEYS ASSUMED AS CORRECT									
51 8112	13.15	8029	2 75	N 13 W	790	54	16	61	
52 8240	13.00	8154	28 80	N 13 W	818	60	40	13	
53 8405	13.00	8314	37 12	N 13 W	851	77	31	78	
54 8672	13.00	8575	60 07	N 13 W	913	30	18	26	
55 8908	13.00	8804	53 10	N 13 W	965	04	6	32	
HORIZONTAL DEPARTURE					965	N 0.231 E			
THESE SURVEYS CORRECTED FOR									
			16	DECLINATION					

96° 0' 23" E 8908 T.D.
8908' MEAS. DEPTH
59.66' VERT. SUB SEA



PACIFIC LIGHTING SERVICE CO

WELL NO. 1W-69

ALISO CANYON

KEUFFEL & ESSER CO
MADE IN U.S.A.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

No. T. 172-1389

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

Long Beach, Calif.
Dec. 8, 1972

DEAR SIR:

Operations at well No. IW 69 (037-21322), Sec. 28, T. 3N, R. 16W, S.E. B & M.
Aiso Canyon Field, in Los Angeles County, were witnessed
on Nov. 29, 1972. Mr. T. Giallonardo, Engineer, representative of the supervisor was
present from 2330 to 0130. There were also present B. Jones, Drilling Foreman.

Present condition of well: 22" cem. 20'; 13-3/8" cem. 1808'; 8-5/8" cem. 8112', cp 3000',
perf. 8075' WSO. Present depth 8116'.

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 8075' IS APPROVED.

TC:dr

cc Company

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

By W. S. Magruder, Jr. Deputy

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

No. T 172-1315

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

Long Beach, Calif.
Nov. 17, 1972

DEAR SIR:

Operations at well No. TH 69 (037-21322), Sec. 28, T. 3N, R. 16W, S.D. B & M.
Aliso Canyon Field, in Los Angeles County, were witnessed
on Nov. 7, 1972. Mr. W. Guerard, Engineer, representative of the supervisor was
present from 1900 to 2030. There were also present G. Coats, Foreman, and
B. Walker, Driller.

Present condition of well: 22" cem. 20'; 13-3/8" cem. 808'. T.D. 808'.

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.

WG:dr

cc Company

dr

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

By *W. Ingram* Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 172-1221

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

Inglewood, Calif.
November 2, 1972

DEAR SIR:

Your _____ proposal to _____ drill _____ Well No. IW 69 (037-21322),
Section 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County,
dated 10/22/72, received 10/30/72, 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. Sufficient cement shall be pumped back of the 13-3/8" casing to reach to the surface.
3. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. 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.
5. 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.
6. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
 - a. A test of the effectiveness of the blowout prevention equipment prior to drilling out cement in the shoe of the 13-3/8" casing.
 - b. A test of the effectiveness of the 8-5/8" shut-off above the Sesson zone.

ADS:dr

cc Company

Blanket Bond

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

By W. L. Ingram, Deputy

OCT 30 1972
Sta

037-21322

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

INGLEWOOD, CALIFORNIA

Los Angeles Calif. 10-28 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. IKW 69 (037-21322), Sec. 28, T. 3N, R. 16W, S. B. B. & M., Aliso Canyon Field, Los Angeles County.

Legal description of mineral-right lease, consisting of _____ acres, is as follows: _____ (Attach map or plat to scale)
plat has been filed

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: 832 feet South along property section line and 5380 feet West at right angles to said line from the Station EA corner of section _____ property

Elevation of ground above sea level 2923 feet S.L. datum.

All depth measurements taken from top of K.B. which is 12 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
<u>1 3/8</u>	<u>48#</u>	<u>Sm 15. H-40</u>	<u>0'</u>	<u>700'</u>	<u>700'</u>
<u>8 5/8</u>	<u>36#</u>	<u>KEN</u>	<u>0'</u>	<u>7200'</u>	<u>7200'</u>
<u>6 5/8</u>	<u>27.65#</u>	<u>J</u>	<u>7150'</u>	<u>7400'</u>	<u>7400'</u>

Intended zone(s) of completion: Sesnon 7200'-7400' Estimated total depth 7400'

(Depth, top and bottom)			FORMS		
MAP	MAP BOOK	CARDS	BOND	114	121
<u>7006</u>	<u>7006</u>	<u>ARG</u> <u>ARG</u>	<u>B</u>	<u>ARG</u>	<u>ARG</u>

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

Address 720 W. 8th St. Pacific Lighting Service (Name of Operator)

Los Angeles, Calif. 90017 By RS Magruder, Jr.

Telephone Number 360-2389 Type of Organization Corporation (Corporation, Partnership, Individual, etc.)