

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

No. T 216-0260

REPORT ON OPERATIONS

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

Amy Kitson
Southern California Gas Company (S4700)
12801 Tampa Ave., SC9382
Northridge, CA 91326

Ventura, California
July 13, 2016

Your operations at well "**Sesnon Fee**" 6, A.P.I. No. **037-00652**, Sec. **32**, T. **03N**, R. **16W**, **SB B.&M.**, **Aliso Canyon** field, in **Los Angeles** County, were witnessed on **6/30/2016**, by **Mike Woods**, a representative of the supervisor.

The operations were performed for the purpose of **determining casing integrity**.

DECISION:

DEFERRED PENDING REVIEW BY THE DIVISION'S SAFETY TEAM.

MW/TKC

Kenneth A. Harris Jr.

State Oil and Gas Supervisor

By 

Patricia A. Abel, District Deputy

EB76.

State of California
Department of Conservation
Division of Oil, Gas, and Geothermal Resources

216-0260
#16, 3

No. T _____

MECHANICAL INTEGRITY TEST (MIT)

Operator: Southern California Gas Company				Well: "Sesnon Fee" 6	
Sec. 32	T. 3N	R. 16W	SB B.&M.	API No.: 037-00652	Field: Aliso Canyon
County: Los Angeles				<input checked="" type="checkbox"/> Witnessed <input type="checkbox"/> Reviewed on: 6/30/2016	
M. Woods , representative of the supervisor, was present from 12:15 to 1:15				<i>Per M. Woods 7-14-16</i>	
Also present were: Mike Giuliani, Consultant					
Casing record of the well: 2 7/8" landed on packer @ 8878', tubing plug @ 8840', empty gas mandril @ 8799'.					
The MIT was performed for the purpose of demonstrating the mechanical integrity of the 7" casing.					
<input type="checkbox"/> The MIT is approved since the R/A tracer survey indicates that all of the injection fluid is confined to formations below _____ at this time.					
<input checked="" type="checkbox"/> The MIT is approved because the 7" casing held a pressure of 1100 psi for 60 minutes.					
<input type="checkbox"/> The MIT is approved since the temperature survey indicates no fluid migration between _____ and the surface.					
<input type="checkbox"/> The MIT is not approved due to the following reasons:					
Comments: Deficiencies Corrected: Deficiencies to be Corrected: Uncorrectable Deficiencies:					
Contractor: Premier Oilfield Service and Oryx Oil Service					

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST-RECORDS RECEIVED AND WELL STATUS

Operator: Southern California Gas Company WELL DESIGNATION "Sesnon Fee" 6

API No. 03700652 SE 32 T: 3N R.: 16W , SB B. and M.

County: Los Angeles FIELD: Aliso Canyon

Type of Notice: Rework Date 6/16/2016 Report Number: P216-0096

RECORDS RECEIVED (ATTACH PAGES IF REQUIRED)

NEW STATUS

	Date	OK	NEED	Remarks
Well Summary (OG100)				
History (OG103)				
E-Log				
Mud Log				
Dipmeter				
Directional				
Core and/or SWS				
<i>Press, Test</i>	<i>6/30/16</i>	<i>✓</i>	<i>8/19/16</i>	<i>Data from SCG</i>

DATE: _____

NOTICE OF RECORDS DUE

DATE: _____

DATE: _____

DATE: _____

DATE: _____

WELL STATUS INQUIRY

DATE: _____

DATE: _____

Well Stat

Change Required: NO

Change Done: _____

ABANDONMENTS/REABANDONMENTS/DRILLS/REDRILLS

CalWims Abandonment Form: _____ SURFACE INSPECTION NEEDED _____ COMPLETED _____
Date and Inspector

FINAL LETTER NEEDED _____ COMPLETED _____ Calwims DRILL/REDRILL Form _____
(Date)

ENGINEER'S CHECK LIST

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

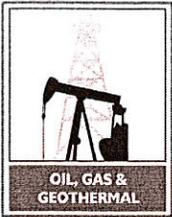
CLERICAL CHECK LIST

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

REMARKS

RECORDS SCANNED: _____
(Date)

RECORDS APPROVED: D.O. 8-22-16
(Date and Engineer)



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

No. P 216-0096

Old	New
010	010
FIELD CODE	
00	00
AREA CODE	
30	30
POOL CODE	

PERMIT TO CONDUCT WELL OPERATIONS

Corrected Copy

Gas Storage

"Sesnon-Frew" - Modelo (Miocene-Eocene) Formation
 Plugback and Suspend for One Year

Ventura, California
 June 30, 2016

Amy Kitson, Agent
 Southern California Gas Company (S4700)
 12801 Tampa Ave., SC9382
 Northridge, CA 91326

Your proposal to **Rework** well "**Sesnon Fee**" 6, A.P.I. No. **037-00652**, Section **32**, T. **03N**, R. **16W**, **SB** B. & M., **Aliso Canyon** field, **Any** area, **Sesnon-Frew** pool, **Los Angeles** County, dated **6/16/2016**, received **6/20/2016** has been examined in conjunction with records filed in this office. (Lat: **34.307896** Long: **-118.573905** Datum:**83**)

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
2. a. **Class I Note: work to be completed without the removal of the injection assembly.**
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. Prior to commencing downhole operations, a pressure test is conducted to demonstrate the mechanical integrity of the 7" casing.
5. Injection shall be through tubing and packer only. Injection or withdrawal through the casing is not permitted.
6. This well is to be taken out of service and isolated from the storage reservoir. The well shall be re-evaluated or abandoned within 1 year of the completion of the pressure testing pursuant to Order #1109 and its amendments.
7. In all other respects, the provisions of Division Order #1109 shall remain in effect.
8. This office shall be contacted by phone prior to making any program changes and no changes are made without Division approval.
9. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. Witness a pressure test on the 7" casing and tubing plug.

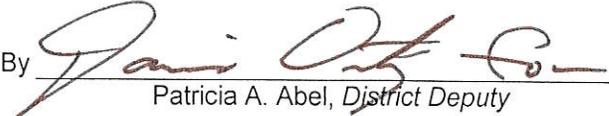
Continued on Next Page

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

Engineer Clifford R. Knight
 Office (805) 654-4761

CRK/crk

Kenneth A. Harris Jr.
 State Oil and Gas Supervisor

By 
 Patricia A. Abel, District Deputy

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

Well #: "Sesnon Fee" 6

API #: 037-00652

Permit : P 216-0096

Date: June 30, 2016

NOTE:

1. The base of the freshwater zone is at **800'±**.
2. No operation shall be undertaken or continued that will contaminate or otherwise damage the environment.
3. This permit is being issued as part of Division Order No. 1109 dated March 4, 2016. Any well that fails any of the testing must be taken out of service and isolated from the storage reservoir pursuant to the Safety Review Testing Regime.
4. The required History of Oil or Gas Well (OG103) shall include a complete description of the required pressure testing. **An updated casing and tubing diagram shall be included with the well history.**
5. **A Well Summary Report (Form OG 100)** and **Well History (Form OG 103)** shall to be submitted to the Division within 60 days after the well is drilled, reworked, plugged and abandoned, or if the work is suspended. Any additional well work will require an additional notice to be submitted to this office prior to resuming well operations.

Enclosure: Attachment 1 to DOGGR Order 1109: Safety Review Testing Regime for the Aliso Canyon Natural Gas Storage Facility

**ATTACHMENT 1
TO DOGGR ORDER 1109**

**SAFETY REVIEW TESTING REGIME
FOR THE ALISO CANYON NATURAL GAS STORAGE FACILITY**

This document identifies the requirements of this comprehensive safety review that shall be completed by the Southern California Gas Company (Operator) and verified by the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (Division). The Operator shall use accepted industry practices and procedures.

The Division has consulted with independent technical experts from the Lawrence Berkeley, Lawrence Livermore, and Sandia National Laboratories ("National Laboratories") to develop the requirements of this facility safety review. The National Laboratories experts independently reviewed and concurred with the testing requirements for the safety review detailed below.

This comprehensive safety review requires that each of the active injection wells in the Aliso Canyon Storage facility either pass a thorough battery of tests in order to resume gas injection or be taken out of operation and isolated from the underground gas storage reservoir. Several steps, detailed below, are required in this safety review. Documentation of all testing required under this comprehensive safety review shall be provided electronically to the Division within 72 hours of completion of a test in digital (i.e. LAS) and printed (i.e. pdf) form. All pressure tests required under this comprehensive safety review shall be witnessed by Division staff. A well that is properly plugged and abandoned in accordance with Public Resources Code section 3208 is not subject to testing under this comprehensive safety review. A well that does not pass all tests must be repaired, retested, and pass all tests, or be plug and abandoned.

REQUIRED TESTS FOR EACH WELL IN THE FACILITY

Step 1: The Operator shall perform an initial casing assessment on the well consisting of temperature and noise logs.

a. Temperature Log:

A temperature survey shall be run from the surface to the packer to measure the temperature within the wellbore. A temperature survey that demonstrates no unexplained anomalous temperature changes in the well is one indication of casing integrity.

b. Noise Log:

An acoustic sensor survey capable of detecting the sound of fluid flow will be conducted the length of the well above the packer to the surface. The survey will include stops at least every 250 feet and at the midpoint of any anomaly detected by the temperature survey. The absence of anomalous sound above the packer is an indication of well integrity

Step 2: The results of the Temperature Logs and Noise Logs will be independently reviewed by Division engineers. Any unexplained abnormal findings in this set of tests shall be addressed by the Operator in one of the following ways:

- a. Conduct further investigation and demonstrate to the Division's satisfaction that the abnormal finding is not an indicator of a lack mechanical integrity;
- b. Remediate the well to the Division's satisfaction; or
- c. With Division review and approval, remove the well from operation and isolate the well from the underground gas storage reservoir in accordance with Steps 4b through 7b below.

Necessary actions to remediate any abnormalities revealed by these tests will be reviewed by Division engineers. Once repairs or mitigations are completed, the Temperature Log and Noise Log must then be repeated on the well and reviewed by Division engineers to ensure that there are no additional abnormal test results and to confirm the issue was repaired.

Step 3: After these tests are completed on the well, and all required action has been completed, the operator shall either:

- a. Conduct the additional tests and evaluations on the well, outlined in Steps 4a through 7a below, in order to gain approval for injecting gas through that well; or
- b. Remove the well from operation and isolate the well from the underground gas storage reservoir in accordance with Steps 4b through 7b below.

REQUIRED TESTS IF A WELL IS INTENDED TO RESUME OPERATIONS

If Temperature and Noise Logs have been completed on a well and they indicate well integrity, and the Operator designates the well to return to injection operations, then the Operator shall perform the additional testing outlined in Steps 4a through 7a. The results of these tests will be independently reviewed by Division engineers and posted publicly. Each of the following tests requires that the production tubing be removed from the well.

Step 4a: The Operator shall conduct a **Casing Inspection log**.

The Operator shall conduct a Casing Inspection log of the well that measures the thickness of the production casing, from the surface to the bottom of the gas storage reservoir cap rock. If the inspection reveals a reduction in wall thickness, the current minimum strength of the casing will be calculated. If the current minimum strength of the casing has diminished to the point that it cannot withstand authorized operating pressures for the well plus a built-in additional safety factor of pressure, the well has failed this test. *A passing test for a casing inspection log would show no thinning of the casing that diminishes the casing's ability to contain at least 115% of the well's maximum allowable operating pressure as authorized in the current Project Approval Letter.*

Step 5a: The Operator shall conduct a **Cement Bond Log** for the well.

The Operator shall conduct a Cement Bond Log (CBL) that measures the bonding between cement and the production casing of the well, and also the bonding between the annular cement and the formation. Cement should be solidly bonded to both the well's production casing and the geologic formation to ensure a seal that prevents fluids from migrating up or down the outside of the well. *A passing test for a cement bond log shows definitive bond, as demonstrated by sonic waveform,*

between cement and casing and between cement and the gas storage formation and/or cap rock for at least 100 feet above the top of the gas storage reservoir.

Step 6a: The Operator shall conduct a **Multi-Arm Caliper Inspection** of the well.

The operator shall conduct an inspection that measures any internal degradation or significant changes to the well's geometry from the surface to the top of the gas storage reservoir, using a minimum 32-arm caliper tool. If the inspection reveals a thinning or deformity of the casing, the current strength of the casing will be calculated. If the current strength of the casing has diminished, such that it cannot withstand authorized operating pressures plus a built-in safety factor of additional pressure, the well fails this inspection. *A passing test for a Multi-Arm Caliper Inspection would show no deformation or thinning of the casing that diminishes the casing from being able to properly contain at least 115% of each well's maximum operating pressure.*

Step 7a: The Operator will conduct a **Pressure Test** of the production casing and of the well once the production tubing has been reinstalled. The Operator may conduct the casing pressure test prior to reinstalling the production tubing. Using a digital recorder, the operator will conduct a liquid-filled positive pressure test within the production tubing of the well, and in the annular space between the production tubing and the casing, to determine the well's ability to withstand normal operating pressures. The production tubing will be isolated and then pressure tested. The annular space between tubing and casing will be pressure tested. This testing also evaluates the integrity of any packers, which seal the annular space between the tubing and casing. The pressure test will be one hour and begin at a pressure of 115% of the maximum operating pressure or the minimum yield strength of the casing and tubing, whichever is less. *A passing pressure test is a pressure loss not exceeding 10% for any 30 minute period during the hour long test.*

After conducting the above tests, the Operator will conduct any indicated remediation so that the well can pass these tests. All remediation will be subject to the review of Division engineers. The well would then be required to undergo the tests once again to demonstrate well integrity.

If the well passes the Casing Wall Thickness Inspection, the Cement Bond Log, the Multi-Arm Caliper inspection and the Pressure Test to the Division's satisfaction, then the Division may clear the well for use for gas injections and withdrawal, once the Division has authorized resumption of injection into the gas storage reservoir. As noted below, wells approved for operation will only be permitted to inject or withdraw gas through the production tubing.

REQUIRED ACTIONS IF THE WELL IS TO BE TAKEN OUT OF OPERATION AND ISOLATED FROM THE GAS STORAGE RESERVOIR:

If the operator elects to take a well out of service, then the following steps shall be taken to isolate the well from the gas storage reservoir:

Step 4b: The Operator shall confirm the presence of cement outside the well's external casing in the section of the well that prevents the movement of gas from the underground gas storage reservoir to shallower geologic zones above the gas storage reservoir. Existing cement bond logs and well construction

records may be used to make this confirmation. This confirmation requires concurrence from Division engineers.

Step 5b: The Operator shall install a mechanical seal or “packer” within the well’s production casing and install a mechanical plug within the well’s production tubing, if applicable. These seals shall be set in place near the bottom of the well, within the portion of the well surrounded by cement. This kind of seal is an industry standard practice for isolating a well from reservoir gases or fluids and will further protect the casing from internal gas pressure.

Step 6b: The Operator shall fill the well with fluid to the well’s surface in order to create appropriate downward hydrostatic pressure in the well that further contributes to the integrity of the well seal.

These measures will isolate a well from the underground gas reservoir, as confirmed by National Laboratory experts. Each of the above actions is subject to review and approval by Division Engineers.

Step 7b: Once the Operator has completed steps 4b, 5b, and 6b, and the seal is in place at the bottom of the well and the well is filled with fluid above the seal, the operator shall:

- a. Conduct daily gas monitoring at the surface of the non-operational well, including monitoring the area around the well perimeter and in the annular space between the plugged casing string and the outmost casing;
- b. Conduct noise log, temperature log and positive pressure test every six months;
- c. Conduct weekly monitoring of fluid levels in the well or, install and operate real-time pressure monitors that provide immediate notification to the operator when pressures deviate from normal in the well’s interior tubing and its annular space.

The above monitoring shall be reported to Division engineers and maintained as a part of the well file. Division engineers will review all submitted information for evaluation on a regular basis to ensure that the well taken out of service has maintained safety, and the operator shall take all necessary steps maintain the safety of the well.

Any well taken out of operation cannot be approved to resume operations and gas injection until the successful completion of the battery of tests outlined above in Steps 4a through 7a (Casing Wall Thickness Inspection, the Cement Bond Log, the Multi-Arm Caliper Extension and the Pressure Test) is completed. Those tests must be successfully completed within one year of completing step 6b. If a well cannot successfully complete all necessary steps required in this safety review after one year of completing step 6b, then the well shall be properly plugged and abandoned in accordance with Public Resources Code section 3208.

REQUIREMENTS FOR WELLS RESUMING OPERATIONS IN ALISO CANYON

The Division’s authorization to resume injection in the Aliso Canyon Storage Facility will be contingent on the successful completion of this comprehensive safety review. The State Oil and Gas Supervisor must confirm in writing that all wells in the facility have either completed and passed the full battery of tests required in the safety review, been taken out of service and isolated from the underground gas storage reservoir, or been properly plugged and abandoned in accordance with Public Resources Code Section 3208.



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

FOR DIVISION USE ONLY		
Bond	Forms	
		OGD114
	OLV WIMS	115V

P216-3096

NOTICE OF INTENTION TO REWORK / REDRILL WELL

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

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework / redrill well _____, Sesnon Fee 6 _____, API No. 037-00652 _____, (Check one)

Sec. 32, T. 3N, R. 16W, S.B. B&M, Aliso Canyon Field, Los Angeles County.

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

See attached wellbore schematic

The total depth is: 9268 feet.

The effective depth is: 8926 feet.

Present completion zone(s): Sesnon (Name)

Anticipated completion zone(s): Same (Name)

Present zone pressure: storage psi.

Anticipated/existing new zone pressure: storage 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.)

The SCGC plans to take this well out of operation and isolate from the gas storage reservoir as per the First Amended Safety Review Testing Regime: Steps 4b-7b.

4b - Theo. TOC at 7168' as per attached wellbore mechanical.

5b - Packer set at 8878' and plug set in XN nipple at 8839' on 6/2/16.

6b - Well was circulated full with 8.5 ppg kill fluid on 6/14/16.

7b - With tubing valve closed, pressure test anulus to 1000 psi. for 1 hour.

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 P. O. Box 2300	City/State Chatsworth	Zip Code 91313-2300
Name of Person Filing Notice Mike Giuliani	Telephone Number: (805) 290-2074	Signature Date 6/16/16
Individual to contact for technical questions: Mike Giuliani	Telephone Number: (805) 290-2074	E-Mail Address: mike.giuliani@interactprojects.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.

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, re-drilling, 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/

Well Sesnon Fee 6

API #: 04-037-00652-00
Sec 32, T3N, R16W

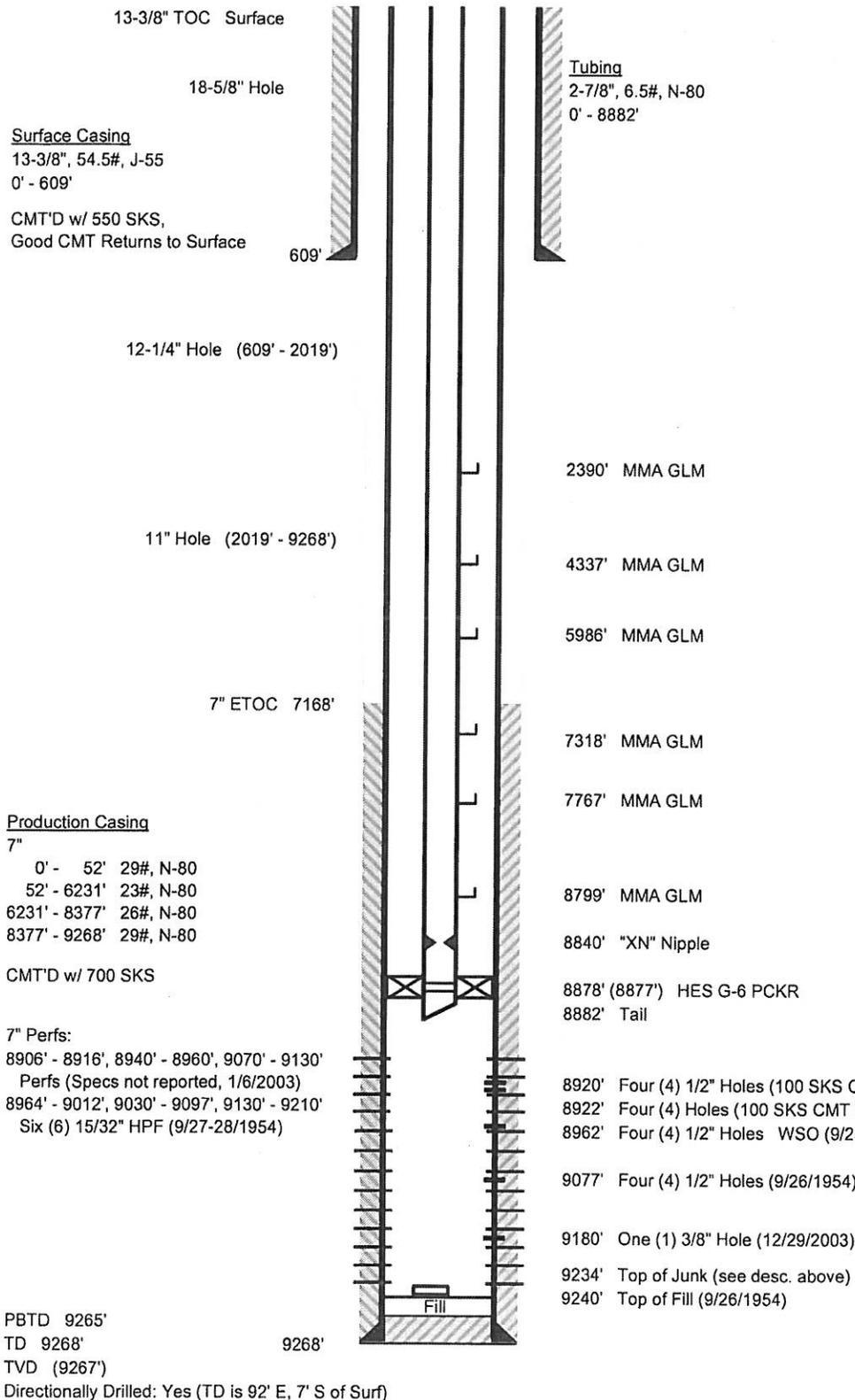
Operator: So. California Gas Co.

Lease: Sesnon Fee
Field: Aliso Canyon
Status: Idle Gas Storage
BFW:
USDW:

Ground Elevation: 2130' asl
Datum to Ground: 10.8' KB

Spud Date: 7/24/1954
Completion Date: 9/30/1954

Junk: "No Go" Nipple plug setting
tool lost below 9234'



Notes	
*Addnl. 100 SKS CMT SQZ'D, 9/24/1954	

Top of Zone Markers md (tvd)	
PEupth	1840' (1840')
FREWupth	2636' (2636')
CRupth	2765' (2765')
K1upth	2830' (2830')
MP	8820' (8819')
S1	8905' (8904')
S4	8964' (8963')
S8	9080' (9079')
S12	9212' (9211')

Prepared by: MAM (6/20/2016)

Casing Pressure Test Safety Check (1000 psi)

Well	Packer Depth MD/TVD	Casing Size/Grade/Weight	Depth MD	Burst PSI	85% of Burst PSI	Pressure at Depth w/1000 psi Surface Pressure	Press < 85% of Burst
Mission Adrian 1B	7183'/7183'	6-5/8", 24#, N-80	7213	7440	6324	4188	Yes
Porter 12	6843'/6842'	6-5/8", 24#, J-55*	4109	5110	4344	2816	Yes
		6-5/8", 24#, N-80* 5", 15#, J-55*	4572 6910	7440 5700	6324 4845	3021 4054	Yes Yes
Sesnon Fee 6	8878'/8878'	7", 29#, N-80	51	8160	6936	1023	Yes
		7", 23#, N-80	6231	6340	5389	3754	Yes
		7", 26#, N-80	8377	7240	6154	4703	Yes
		7", 29#, N-80	9268	8160	6936	5096	Yes
Standard Sesnon 30	8840'/8840'	7", 23#, N-80	1996	6340	5389	1882	Yes
		7", 23#, J-55	4199	4360	3706	2856	Yes
		7", 23#, N-80	6321	6340	5389	3794	Yes
		7", 26#, N-80	8206	7240	6154	4627	Yes
		7", 29#, N-80	9248	8160	6936	5088	Yes

* Actual pipe in well is a non-API grade so assumed closest size, weight & grade of API pipe

OPERATOR BRUNNEN & CO. CRIS CO
 LSE & NO SFZU" SF-6
 MAP 250

	(1)	(2)	()	()	()	()
INTENTION	DRILL	ALTR CSG	REWORK			
NOTICE DATED	7-8-54	11-11-75	12/23/2003			
P-REPORT NUMBER	15A-851	175-417	P203-238			
CHECKED BY/DATE						
MAP LETTER DATED	7-12-54	N/C	N/C			
SYMBOL						
	REC'D NEED	REC'D NEED	REC'D NEED	REC'D NEED	REC'D NEED	REC'D NEED
NOTICE	7-12-54	11-20-75	12/23/03			
HISTORY	12-1-54	3-10-76	5-13-04			
SUMMARY	12-1-54					
IES/ELECTRIC LOG						
DIRECTIONAL SURV						
CORE/SWS DESCRIP	12-1-54					
OTHER			GAMMA NEUTRON 5-13-04			
RECORDS COMPLETE			5-13-04 <i>SM</i>			

ENGINEERING CHECK

T-REPORTS _____

OPERATOR'S NAME _____

WELL DESIGNATION _____

LOC & ELEV _____

SIGNATURE _____

SURFACE INSPECTION _____

FINAL LETTER OK _____

CLERICAL CHECK

POSTED TO 121 _____ 170 MAILED _____ FINAL LETTER MAILED _____

RELEASED BOND _____

REMARKS: _____

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: Sesnon Fee 6
A.P.I. No. 037-00652

Field: Aliso Canyon

County: Los Angeles
Surface Location:
Title: Storage Field Engineer
(President, Secretary, or Agent)

Ortwein
(Person Submitting Report)

Date: 4/22/2004

Signature: *Ortwein*

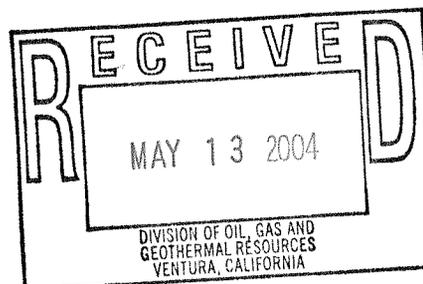
818 100 3802

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

Telephone Number: ~~(310) 578-2649~~

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
12/22/2003	Move in rigged up spot pump and BOPE equipment. Un-hung well worked stuck pump could not work free. Layed down polish rod picked up 1" rods and attempt to release from O/O tool. Rigged up and backed off rods. Pulled out of well laying down rods.
12/23/2003	Pulled out of well laying down rods (left pump in well). Nippled down wellhead and flowlines. Nippled up Class III BOP.
12/24/2003	Made up back pressure plug. Tested blind rams to 5000 psi for 20 minutes. Remove BPV and tested pipe rams to 5000 psi for 20 minutes. Tested hydril to 3000 psi (no test, will replace hydril on Monday). Unlanded tubing and attempted to open drain. Anchor not set. Ran in well and tagged at 9234'. Re-landed tubing on hanger. BOP witness and approved by A. Anderle DOGGR.
12/29/2003	Change out Hydril. Rigged up slick line and shot 3/8" hole at 9180'. Rigged down wireline. Rigged up Tuboscope and pulled out of well thru scan unit.
12/30/2003	Pulled out of well thru Tuboscope unit. Layed down anchor and drain. Rigged down Tuboscope unit. Made up 7" casing scraper and bumper sub. Ran in well to 8465'.
12/31/2003	Unload exchange tubing. Picked up tubing and tagged at 9234' . Pulled out of well to 8200'.
1/2/2004	Pull out of well and layed down casing scraper. Nippled up shooting flange. Rigged up Baker Atlas loggers. Made up and ran Nuetron/Gamma Ray with CCL. Ran in well tagged at 9200'. Ran correlation strip to 4700'. Rigged down loggers and ran kill string to 1500'.
1/5/2004	Pulled out of well with kill string made up shooting flange. Rigged up Baker Atlas made up 20' gun. Rig down wireline and shut down due to high winds.
1/6/2004	Rigged up Baker Atlas wireline. Made up 4" guns and perforated from 9130'-9070', 8960'-8940' and 8916'-8906'. Rigged down loggers made up 7" casing scraper and ran in well to 8800'.
1/7/2004	Ran in well with scraper and tagged fill at 9200'. Pulled out of well and layed down scraper. Made up 3-3/4" tubing bailer and ran in well to 9200'. Bailer to 9225' (previous workover - top of packer left in well). Pulled out of well to 7600'.
1/8/2004	Pulled out of well with tubing bailer. Layed down bailer made up HES G-6 packer, 1 joint 2-7/8 tubing, XN nipple, 1 joint 2-7/8 tubing and MMA gaslift mandrels. Ran in well picking up gaslift mandrel per program (spider in well to API torque). Ran in well to 7000'.
1/9/2004	Ran in well to 8880' and set HES G-6 packer with 10,000K compresion. Filled annulus and tested to 500 psi. Landed in tubing hanger. Made up and set BPV and nippled down BOP. Nippled up production tree and removed BPV. Loaded out equipment and rigged down hoist. Cleaned location and moved rig to P-15. Surface piping in progress.



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

No. T204-012

Report on Operations

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

Ventura, California
January 9, 2004

Your operations at well "Sesnon Fee" 6, API No. 037-00652, Sec. 32, T. 3N, R.16W, S.B.B.&M. Aliso Canyon Field, in Los Angeles County, were witnessed on 12-24-2003. Anne Anderle, representative of the supervisor, was present from 1030 to 1100. There were also present Mike Volkmar.

Present condition of well: 13 3/8" cem 609'; 7" cem 9268', cp @ 8920' & 8922', WSO perf @ 8962', perf @ int 8964'-9210'. TD 9268'. Plugged w/ cem 9268'-9240'.

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

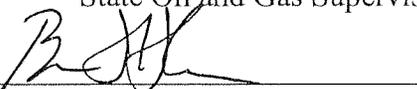
DECISION:

The blowout prevention equipment and installation on the 7" casing are approved.

tkc

Hal Bopp
State Oil and Gas Supervisor

By



Bruce H. Hesson
Deputy Supervisor

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00
30-Season
Furn

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
NOTICE OF INTENTION TO REWORK / REDRILL WELL P203-238

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

FOR DIVISION USE ONLY			
Bond	Forms		EDP Well File
	OGD114	OGD121	
1,000,000	111V	115V	

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 Sesnon fee #6 API No. 037-00652
(Circle one) (Well designation)

Sec. 27 T. 2S R. 15W S.B.B.&M. Aliso Canyon Field
Los Angeles County

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:
13-3/8" 54.5# casing cemented at 509'
7" 29#, 23# & 26# cemented at 9268'.

GS

2. The total depth is: 9268' feet. The effective depth is: 9240' feet.

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

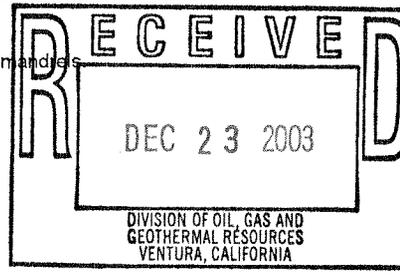
4. Present zone pressure: 3000' psi. Anticipated/existing new zone pressure: 3000 psi.

5. Last produced: 6-96 (Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D) Storage

(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.)
Program attached.
Remove rod lift perforate at 8905'-8915', 8935'-8955' and additional Sesnon sands 9097'-9130. Ran packer and gaslift mandrels.



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

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

Name of Operator Southern California Gas Company	Telephone Number 818 700-3802
Address 9400 Oakdale Ave	City Chatsworth
Name of Person Filing Notice Matt Ortwein	Signature <u>Matt Ortwein</u>
	Zip Code 91313
	Date 12/23/2003

File In Duplicate

SF-6
WORKOVER PROGRAM
December 15, 2003

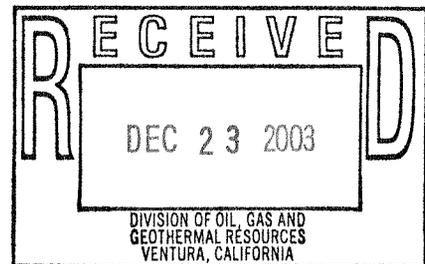
Operator: Southern California Gas Company
Field: Aliso Canyon Storage Field
Well: SF-6
Date: December 15, 2003

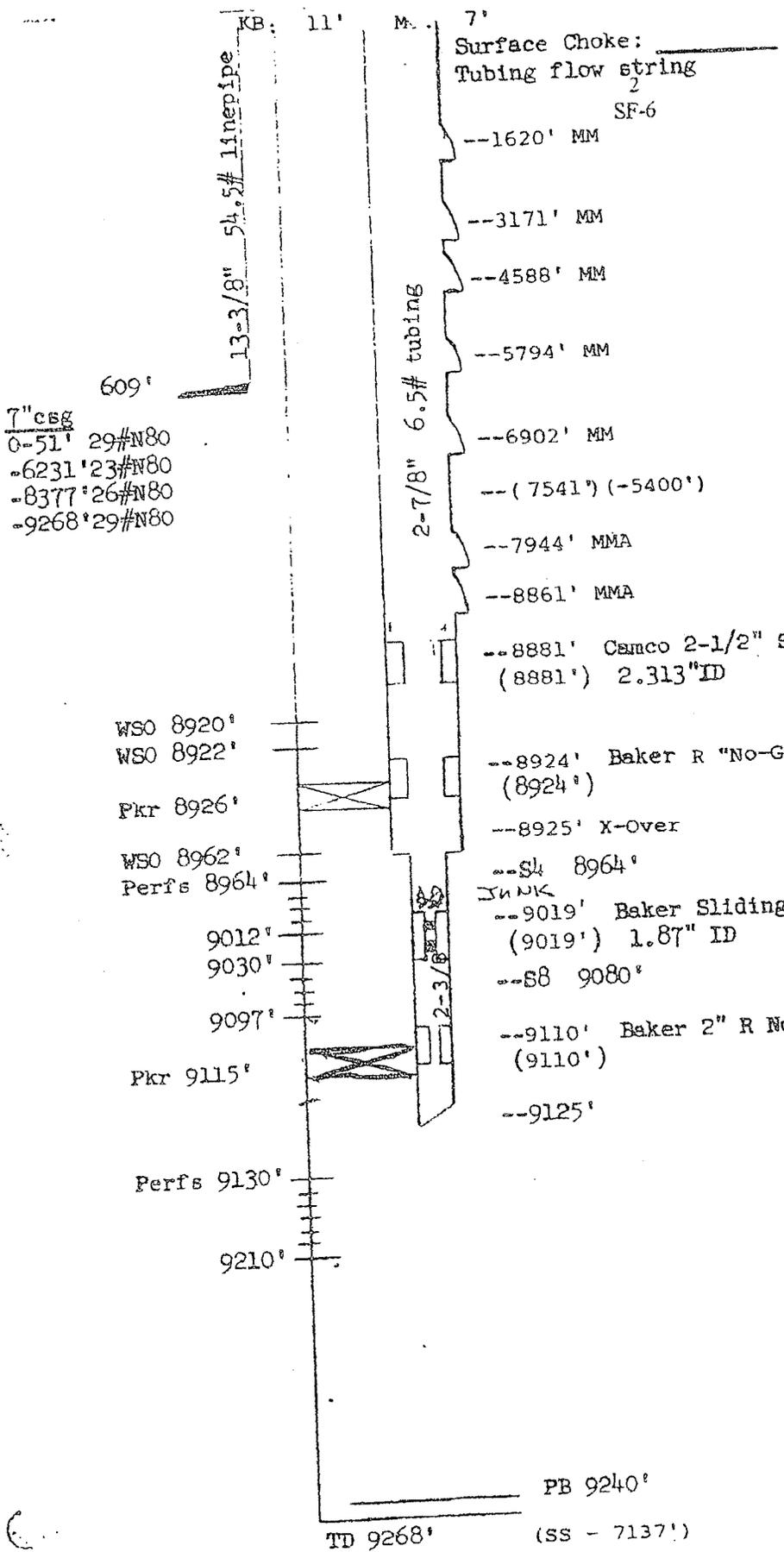
API Number: 037-00652

Account: GWO 95687 IO 300290100

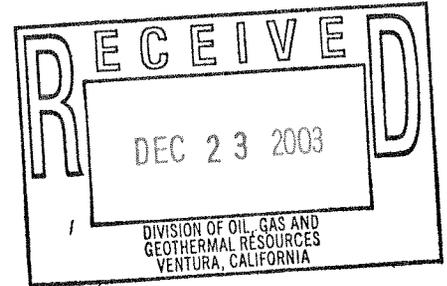
OBJECTIVE: Pull and lay down rods Re- perf S-1 and S-2 run gaslift mandrels and packer

Permits: Permit from the Ca DOGGR will be required for the operations described in this well work program.





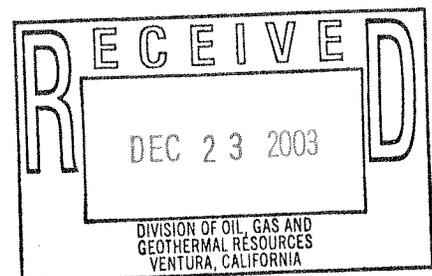
7/24/54 Well spud
 9/30/54 Well completed
 2/2/76-2/21/76 Ran TDT log & SSSV



	WELL VOLUME	
	Cu.Ft.	Bbl.
Tubing	294	52
Csg/Lnr.	24	4
Annulus	1523	271

WELL WORK PROGRAM SF-6

- 1) Move in production rig (well has been killed) Rig up and pull and lay down rods and pump.
- 2) Set 2-7/8" LH Shaffer BPV . Nipple down production tree. Install WEA Class III BOPE . Fit BOPE with 2-7/8" pipe rams and CSO. BOPE must have connection and valve below the blind rams.
- 3) Test BOPE system per Co. job instruction. Test to 5000 Psi. Notify DOGGR to witness testing.
- 4) Unland tubing Pick up tubing and tag for fill.(packer was left at 9224' TD 9240') Pull out of well thru Tuboscope inspection unit (lay down all green and red tubing.)
- 5) Clean out fill if necessary.
- 6) Pick up 7" all weight casing scraper and run to bottom.
- 7) Rig up Loggers and reperforate S- 1 from 8905'-8915' and S-2 from 8935'-8955' 9097-9130 4-1/2" HPF. Use full lubricator.
- 8) Run 7" casing scraper to bottom and clean out fill as necessary.
- 9) Make up 7" HES G-6 packer 1) joint 2-7/8" tubing XN nipple 1) joint tubing gaslift mandrel and run tubing and gas lift to surface as per design. Set packer per HES recommended compression. Land in tubing hanger.
- 10) Install BPV and nipple down BOPE, nipple up and test production tree per SoCal Gas co. procedure.
- 11) Release rig . Clean location. Remove all trash, debris, equipment and materials from site.



STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Ventura _____, California

November 12, 1991

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

Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 32, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 2, has been received.

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

FROM

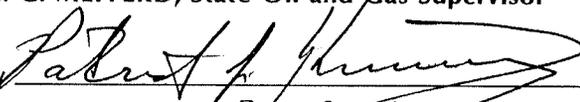
"SFZU" SF-4 (037-00650)
"SFZU" SF-6 (037-00652)

TO

"Sesnon Fee" 4 (037-00650)
"Sesnon Fee" 6 (037-00652)

M. G. MEFFERD, State Oil and Gas Supervisor

By


Deputy Supervisor

PATRICK J. KINNEAR

DIVISION OF OIL AND GAS

MAR 10 1976

History of Oil or Gas Well

SANTA PAULA, CALIFORNIA

OPERATOR Southern California Gas Company FIELD Aliso CanyonWell No. Sesnon Fee 6, Sec. 32, T. 3N, R. 16W, S.B. B. & M.Date February 23, 1976Signed P.S. Magruder, Jr.P.O. Box 3249 Terminal Annex
Los Angeles, California 90051

P.S. Magruder, Jr.

(Address)

(Telephone Number)

(213) 689-3561 Title Agent

(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

- 2-02-76 Moving in Pool Co. rig #26.
- 2-03-76 Rigging up.
- 2-04-76 Using rig pump, displaced fluid in hole with 360 bbls. of 63.5# ft.³ Brine polymer fluid. Using Archer-Reed, set tubing plugs in 2-7/8" tubing. Removed Xmas tree and installed B.O.P.E. Class III. Shut job down at 10:00 p.m.
- 2-05-76 Attempted to test B.O.P.E. with rig pump. Stem on blind rams leaked. Changed gates and tested with rig pump as follows:
Blind rams 2400 psi, pipe rams 2200 psi, hydril 2200 psi. Each test 20 minutes, O.K. Shut job down at 11:00 p.m.
- 2-06-76 Tested with (B.O.P.E.) nitrogen as follows: Hydril 2400 psi, pipe rams 2500 psi, blank rams 2300 psi. Each test 20 minutes, O.K. D.O.G. declined to witness tests. Removed tubing plugs, released Guiberson K.V. 30 packer at 8888'. Circulated bottoms up. No fluid loss. Started out of hole with tubing. Shut job down at 10:00 p.m.
- 2-07-76 Pulled and measured tubing. Laid down packer and gas lift valves. Ran in hole with 6" bit and 7" casing scraper. Found fill at 8994'. Made up swivel and kelly. Pulled up to 8859'. Shut job down at 8:00 p.m.
- 2-03-76 Rig and crew idle.
- 2-03-76 Cleaned out from 8994'-9240'. Fill consisted of sand and carbonates. Rigged up Dresser-Atlas and attempted to run neutron lifetime log. Shut job down at 1:00 a.m. (2-10-76)
- 2-03-76 Ran neutron lifetime log and recorded from 9232'-8000'. Ran cement bond log and recorded from 9231'-7000'. Released Dresser-Atlas and shut job down at 11:00 p.m.

- 2-11-76 Ran inhole with 7" 29# Baker full bore. Using Howco tested 7" casing - surface to 8950'-2200 psi for 20 minutes, O.K. Test witnessed and approved by Larry Bright, D.O.G. Tested surface to 7000' under 2400 psi for 20 minutes. Attempted to test surface to 5000' under 2600 psi. TBG collapsed (1 joint). Made second attempt with same results. Shut job down at 10:00 p.m.
- 2-12-76 Hydrotested tubing in hole to 5000' under 4000 psi. Test surface to 5000' - 2600 psi for 20 minutes, O.K. Attempted to test 0'-4000' under 3000 psi TBG collapsed. Pulled out of hole and ran back in to 3000' for test. TBG collapsed at 3200 psi- Made second attempt at 3000' with same results. Shut job down at 10:00 p.m.
- 2-13-76 Tested 0'-3000' under 3400 psi for 20 minutes, O.K. Tested 0'-4000' 3000 psi for 20 minutes, O.K. Pulled out of hole with full bore and ran in to 7000' with Baker Model "B" 7"-29# Lok-Set bridge plug. Tested casing and bridge plug under 1500 psi with rig pump for 10 minutes, O.K. Pulled out of hole, removed B.O.P.E. and tubing head. Shut job down at 10:30 p.m.
- 2-14-76 Using casing jacks, unlanded 7" casing with 270,000 # pull. Cut off casing head. Threaded 7" stub and put on section (5') of 7" 29#, N-80. Attempted to test 5' section with 270,000# pull. Hydraulic hose developed leak at 240,000# pull. Installed new 5000 psi Cameron casinghead by butt welding to 13-3/8" surface pipe 27" below head. Heated and wrapped with asbestos blankets. Shut job down at 10:30 p.m.
- 2-15-76 Rig and crew idle.
- 2-16-76 X-rayed casing weld (13-3/8"), O.K. Using casing jacks landed 7" casing with 270,000# weight in slips with packing. Installed 13-5/8" spool with pack off for 7" casing. Tested primary packing under 4000 psi, secondary packing under 4500 psi. Reinstalled B.O.P.E. Tested with water as follows: Blind and pipe rams 2500 psi, Hydril 2000 psi. Each test was for 20 minutes, O.K.
- 2-17-76 Tested B.O.P.E. with nitrogen as follows: Hydril 2000 psi, pipe and blind rams 2500 psi. Each test for 20 minutes, O.K. Ran in hole with bridge plug retrieving tool. Released bridge plug and pulled up to 3000'. Unable to reset bridge plug. Pulled out of hole. Bridge plug left in hole. Ran back in hole to 7600'. Shut job down.
- 2-18-76 Continued running in hole to 8930'. Recovered B.P. and pulled up to 3000'. Set tool and attempted to test casing and tubing head. Tool leaked. Pulled out of hole and ran in to 600' with Baker 7" full bore. Pressure tested tubing head and casing under 3400 psi for 20 minutes, O.K. Pulled out of hole with full bore. Using Dresser-Atlas wire line, set Baker "Retrieva-D" packer at 9115'. Set #2 Retrieva-D packer at 8925.5'. Ran 30 doubles in hole and shut job down.

- 2-19-76 Pulled 30 doubles. Ran production tubing. (Detail attached)
All tubing drifted and hydrotested to 4000 psi. Stabbed into packer
at 8925.5'.
- 2-20-76 Pulled 15,000# over weight of tubing to test latch. Landed tubing
with 10,000# weight on packer, 34,000# weight on tubing hanger.
Removed B.O.P.E. and installed 5000 psi Cameron Xmas tree. Tested
doughnut and Xmas tree under 4500 psi. Displaced workover fluid
with lease salt water. Attempted to set plug in "No-Go" nipple at
8923'. Pulled out of hole without plug. Unable to recover tool after
4 runs. Shut job down at 10:00 p.m.
- 2-21-76 Reran Archer-Reed and pushed standing valve to "No-Go" nipple at
8923'. Tested seals and packer under 2000 psi. Pulled out of hole
with wire line equipment. Rig released at 2:00 p.m.

SESNON FEE #6

TUBING DETAIL

9125.31	Baker Production tube 5.03' 2-3/8" EUE 8rd
	8 seal units 2-3/8" 8.78'
9115.00	Baker Retrieva "D" Packer
3.50	Seals above center element (above packer 2:00')
<u>9111.50</u>	
.78	Baker "R" No-Go nipple (1.81" I.D.)
<u>9110.72</u>	
89.34	3 jts., 2-3/8" EUE, 8rd, tubing
<u>9021.38</u>	
2.63	Baker Model "L" sliding sleeve (1.87 I.D.)
<u>9018.75</u>	
89.04	3 jts, 2-3/8" EUE, 8rd, tubing.
<u>8929.71</u>	
4.21	4-Baker seals (with 2-3/8" x 2-7/8" crossover)
<u>8925.50</u>	
1.12	Baker latch in assembly
<u>8924.38</u>	
.81	Baker 2-7/8" Model "R" No-Go nipple (2.25 I.D.)
<u>8923.57</u>	
31.55	1-jt., 2-7/8" EUE, 8rd, J-55, 6.5 # tubing
<u>8892.02</u>	
11.17	2-7/8" Camco safety valve KP-5 mandrel
<u>8880.85</u>	
10.60	Pup jt., 2-7/8" EUE, 8rd, N-80, 6.5#
<u>8870.25</u>	
1.18	Pup-2-7/8" EUE 8rd
<u>8869.07</u>	
8.21	Camco MMA-Gas lift valve (empty)
<u>8860.86</u>	
4.05	Pup - 2-7/8" EUE, 8rd
<u>8865.81</u>	
903.05	29 jts - 2-7/8" EUE, 8rd, J-55, 6.5 tubing
<u>7953.76</u>	
1.18	Pup - 2-7/8" EUE 8rd
<u>7952.58</u>	
8.19	Camco Gas lift mandrel
<u>7944.39</u>	
4.05	Pup 2-7/8" EUE 8rd J-55
<u>7940.34</u>	
1029.22	33 jts. of 2-7/8", EUE 8rd, J-55
<u>6911.12</u>	
1.18	Pup 2-7/8", EUE, 8rd
<u>6909.94</u>	
8.35	Camco Gas lift mandrel
<u>6901.59</u>	
4.06	Pup 2-7/8" EUE, 8rd
<u>6897.53</u>	
1094.12	35 jts. - 2-7/8", EUE, 8rd, J-55 tubing
<u>5803.41</u>	
1.18	Pup - 2-7/8" EUE, 8rd
<u>5802.23</u>	

5802.23	
<u>8.08</u>	Camco Gas lift mandrel
5794.15	
<u>4.07</u>	Pup - 2-7/8" EUE, 8rd
5790.08	
<u>1191.55</u>	38 jts. - 2-7/8" EUE, 8rd, J-55 tubing.
4598.53	
<u>1.83</u>	Pup - 2-7/8" EUE 8rd
4596.70	
<u>8.23</u>	Camco gas lift mandrel
4588.47	
<u>4.14</u>	Pup - 2-7/8" EUE, 8rd
4584.33	
<u>1403.21</u>	45 jts.- 2-7/8" EUE, J-55, tubing
3181.12	
<u>1.83</u>	Pup - 2-7/8" EUE, 8rd
3179.29	
<u>8.24</u>	Camco gas lift mandrel
3171.05	
<u>4.04</u>	Pup, 2-7/8" EUE, 8rd
3167.01	
<u>1536.59</u>	49 jts. - 2-7/8" EUE, 8rd, J-55, tubing
1630.42	
<u>1.83</u>	Pup - 2-7/8" EUE, 8rd
1628.59	
<u>8.21</u>	Camco gas lift mandrel
1620.38	
<u>4.05</u>	Pup - 2-7/8" EUE, 8rd
1616.33	
<u>1600.85</u>	51 jts. - 2-7/8" EUE, 8rd tubing
15.48	
<u>3.60</u>	Pup - 2-7/8" EUE, 8rd
11.88	
<u>.60</u>	Pup - 2-7/8" EUE, 8rd
11.28	
<u>11.28</u>	Doughnut 8" x 2-7/8" Shafco Below K.B.
00.00	

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

REPORT ON PROPOSED OPERATIONS No. P 275-417

Mr. P. S. Macruder, Jr., Agent
Southern Calif. Gas Company Santa Paula, Calif.
1 P.O. Box 54790, Terminal Annex
Los Angeles, California 90054

DEAR SIR: (037-00652)
Your proposal to alter casing Well No. "SFZU" SF-6
Section 32, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County,
dated 11/11/75, received 11/20/75, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment, at least of the Division of Oil and Gas Class III rating, shall be installed and maintained in operating condition at all times.
2. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
 - a. The pressure test of the 7" casing.
 - b. The test of the 7" water shut-off.

Blanket Bond
DER:b

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

By , Deputy

NOV 20 1975

DIVISION OF OIL AND GAS

SANTA PAULA, CALIFORNIA

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

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

Los Angeles Calif. November 11 19 75

DIVISION OF OIL AND GAS

Santa Paula Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. Sesnon Fee #6

(Cross out unnecessary words)

Sec. 32, T. 314, R. 16W, S.B. B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- 1. Total depth. 9268'
2. Complete casing record.
13-3/8" cemented 609'
7" cemented 9268', cement plug 9240'
perforated 9210' - 9130', 9097' - 9030' & 9012' - 8964'

3. Last produced. Shut In (Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

- 1. Kill well, install BOPE & pull tubing.
2. Run cement bond log & Neutron lifetime log.
3. Pressure test 7" casing.
4. Retest shut off and perform other remedial work if required.
5. Install new well head equipment.
6. Recomplete with packer & safety valve.

Table with columns: MAP, MAP, DATE, BOND, FORMS

SOUTHERN CALIFORNIA GAS COMPANY

(Name of Operator)

By [Signature]

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

830 North La Brea Avenue
Inglewood, California

September 25, 1968

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

DEAR SIR:

Your request dated letter dated August 26, 1968, relative to change in designation of well(s) in Sec. 32, 33, 34, T. 3 N., R. 16 W., S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 1, has been received;

and in accordance with Section 3203, Public Resources Code, reading in part as follows:

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

the proposed change in designation is hereby authorized as follows: (Formerly owned by Porter Sesnon, Et Al)

<u>Old Designation</u>	<u>New Designation</u>
Sec. 32: "Sesnon Fee" 4	Sec. 32: "SFZU" SF-4 (037-00650)
" 6	" SF-6 (037-00652)
Sec. 33: " 1	Sec. 33: " SF-1 (037-00647)
" 2	" SF-2 (037-00648)
" 3	" SF-3 (037-00649)
" 5	" SF-5 (037-00651)
" 7	" SF-7 (037-00653)
" 8	" SF-8 (037-00654)
Sec. 34: "Porter Fee" 1	Sec. 34: " PF-1 (037-00644)
" 2	" PF-2 (037-00645)
" 3	" PF-3 (037-00646)

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

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

By 
Deputy Supervisor

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

91
RECORDED
DEC 1 1954
LOS ANGELES COUNTY

Operator Porter Sesnon, Barbara Sesnon Car tan,
Wm. T. Sesnon, Jr., Tenants in Common Field Aliso Canyon

Well No. "Sesnon Fee" #6 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.
Elevation above sea level 2130 (ground) feet.
Location 3439.36' S. & 8328.38' W. from Sta.
84 - Aliso Canyon Line All depth measurements taken from top of Kelly bushing
which is 10.8 feet above ground.

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

Date November 11, 1954 Signed Porter Sesnon
Easton & Sacre Don Gordon Title Tenant
(Engineer) (Superintendent) (President, Secretary or Agent)

Commenced drilling July 24, 1954 Completed drilling September 30, 1954 Drilling tools ~~XXXX~~
Rotary

Total depth 9268' Plugged depth 9240' GEOLOGICAL MARKERS DEPTH
Junk None Top Sesnon (S₄) Zone 8964'
Top H₂ Zone 9268'

Commenced producing October 7, 1954 ~~XXXXXX~~ / pumping
(date) (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	230	20.4°	14%	Not measured	125	Vacuum
Production after <u>15</u> days	182	20.4	12%	143	170	1375

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 or through perforations
13-3/8"	609'	Surface	54.5#	New	Seamless	J-55	18-5/8"	550	-
7"	9268'	Surface	23, 26 & 29#	New	Seamless	N-80	11"	700	-

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
7"	8964 ft.	9012 ft.	Six 15/32" holes per foot	-	-	Gun perforated with
7"	9030 ft.	9070 ft.	Six 15/32" holes per foot	-	-	Lane - Wells 5-9/16"
7"	9130 ft.	9210 ft.	Six 15/32" holes per foot	-	-	A-2 Gun

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Porter Sesnon, Barbara Sesnon Cartan,
OPERATOR Wm. T. Sesnon Jr., Tenants in Common FIELD Aliso Canyon

Well No. "Sesnon Fee" #6 Sec. 32 T. 3 N. R. 16 W. S. B. B. & M.

Signed *Porter Sesnon*

Date November 11, 1954

Title *Tenant*
(President, Secretary or Agent)

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Date

Installed 20" Taylor spiral weld, plain end conductor pipe which was cemented solid in 30" hole from a depth of 55' below ground level. Cellar dimensions were 10' x 8' x 5'.

1954
7-18
to
7-24

Kellogg and Sons, drilling contractors, moved equipment from "Sesnon Fee" #5 location to "Sesnon Fee" #6. Rigged up and commenced drilling operations at 12:15 A.M., July 24, 1954. Drilled 12-1/4" hole to 828'

7-25
to
7-26

Drilled 12-1/4" hole from 828' to 2019'. Circulated hole clean and pulled out. Ran 12-1/4" x 18-5/8" hole opener and opened hole to 18-5/8" from surface to 430'.

7-27

Opened 12-1/4" hole to 18-5/8" from 430' to 609'. Circulated and pulled out. Ran back to bottom, circulated hole clean for pipe.

Ran and cemented at 609' (K. B. measurement) 16 joints including 1 pup of 13-3/8" 54.5#, new, Spang, seamless, T. & C., casing with 550 sacks Colton construction cement mixed to 118# slurry, last 100 sacks treated with CaCl₂. Used 2 top plugs (lower was rubber and upper was wood) and displaced with 520 cu. ft. mud (11 cu. ft. less than theoretical) and plugs bumped at 600# at 10:30 A.M. Oil Well Cementing equipment used. Mixing time 32 minutes, displacing time 15 minutes. Shoe was Baker open guide and Baker centralizer was placed 10' above shoe. Bottom 5 joints were tack welded. Full circulation throughout and cement returns obtained at surface.

After standing cemented 8 hours the casing was landed, the casing head was welded on and the blow-out prevention equipment was installed.

7-28

After standing cemented 16 hours, the blow-out prevention equipment was closed and tested with 1000# for 30 minutes, O.K. Ran 11" bit and located top of cement at 598'. Closed rams and tested blow-out prevention equipment with 1000# for 15 minutes, O.K. Drilled out cement and plugs and checked shoe at 609'. Cleaned out hole from 609' to 2019' and circulated for 3/4 hour. Drilled ahead with 11" hole from 2019' to 2452'.

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Date

1954

7-29

to 8-14

Drilled 11" hole from 2452' to 6453'. Average mud 78# to 80#, 45 to 55 sec. visc., 1 to 4% sand, 9 to 12 cc/30 min. W. L., 2/32" to 3/32" filter cake.

8-14

to 8-30

Drilled 11" hole from 6453' to 8590'. Average mud 78 - 80#, 55 to 60 sec. visc., 1 to 4% sand, 7 - 9 cc/30 min. W. L., 2/32" F. C.

8-31

Drilled 11" hole from 8590' to 8771'. 72# mud, 48 sec. visc., 1% sand, 5.7 cc/30 min., 2/32" F. C.

9-1

Ran 11" bit. Reamed tight hole 8670' - 8700'. Drilled 8771' - 8855'. Ran Schlumberger electric log. Drilled 7-5/8" hole 8855' to 8860'. 74# mud, 46 secs. visc., 1% sand, 4 cc/30 min. W. L., 2/32" F. C.

9-2

Drilled 7-5/8" 8860' - 8890'. Repaired drilling equipment. 74# mud, 40 secs. viscosity, 1% sand, 4 cc/30 min., W. L., 2/32" F. C.

9-3

to 9-4

Finished repairing drilling equipment. Ran 7-5/8" bit. Drilled 8890' - 9019' after reaming tight hole 8855' - 8890'. Checked blow-out prevention equipment.

9-5

Ran 7-5/8" Reed core barrel. Cored 9019' - 9036', recovered 6". Cored 9036' - 9056', recovered 7'. Cored 9056' - 9081', recovered 18'. Circulated and conditioned mud for 2 hours. 74# mud, 45 secs. visc., 1/2% sand, 3.2 cc/30 min. W. L.

9-6

Ran Schlumberger electric log (2nd run). Ran 7-5/8" bit and cleaned out to 9081'. 77# mud, 48 secs. visc., 1% sand, 3 cc/30 min. W. L.

J. F. T. Interval 8967' - 9081'. Ran Johnston hydraulic tester on 4-1/2" F. H. drill pipe, 88' of drill collars, with single bob-tail packer. Set at 8967'. Used 900' water cushion, Sutliff jars, Homco safety joint, shut-in tool and left hand joint below packer; 4-1/2" perforated tail to bottom. Opened valve at 6:17 P.M. for 2 hour and 45 minute test plus 1 hour shut-in test. Strong steady to medium steady blow at end of test. Gas to surface in 7 minutes. Strong petroleum odor. Recovered 4800' net rise including 4712' oil with 13.30 gravity and 8% cut (mud), and bottom 88' watery drilling fluid testing 144 g/g. 35th stand out unloaded cushion, oil and mud for 30 minutes. Opened back scuttle valve at top of cushion, back scuttled out oil.

31

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Date

1954
 9-7

Ran 7-5/8" x 11" hole opener and cleaned out from 7784' to 8855' and opened hole from 8855' to 8955'. Ran 7-5/8" bit and cleaned out to 9081'. 79# mud, 48 secs. visc., 1% sand, 2.4 cc/30 min., 1/32" F. C.

9-8

Ran 7-5/8" Reed core barrel, cored 9081' - 9094', recovered 0'. Cored 9094' - 9114', recovered 0'. 77# mud, 44 secs. visc., 5% sand, 2.4 cc/30 min. W. L.

9-9 to
 9-10
 incl.

Ran 7-5/8" Reed core barrel, cored 9114' - 9129', recovered 7-1/2'. Cored 9129' - 9149', recovered 20'. Cored 9149' - 9169', recovered 20'. Ran 7-5/8" bit and cleaned out to 9169'. Circulated and conditioned mud 2 hours. Pulled out 5 stands then to bottom. Cleaned out 3 bridges. Circulated 1-1/2 hours, pulled out.
J. F. T. Interval 9055' - 9169'. Ran Johnston hydraulic tester on 4-1/2" F. H. drill pipe, 88' drill collars, with dual bob-tail packers. Lower packer set at 9085'. 940' water cushion, Johnston jars, Homco safety joint, shut-in tool, and left hand joint below packer. 4-1/2" perforated tail to bottom. Opened valve at 9:05 P.M. September 10, 1954, for 2 hours 30 minutes plus 1 hour shut-in test. Strong steady to weak steady blow at end of test. Gas to surface in 3 minutes. Strong petroleum odor. Recovered 4470' net rise including oil and emulsion and mud. Cuts varied 70% mud to 5.9% water and 1.8% mud (gravity 18.5°, 7% mud) 88' salt water on bottom (270 g/g). 39th stand out showed 5' fluid, dropped bar and opened back scuttling valve at top of cushion. Back scuttled out oil.

9-11
 to
 9-14
 incl.

Ran 7-5/8" Reed core barrel. Cleaned out 8950' to 9169'; cored 9169' - 9194', recovered 0'. Pulled core barrel to 8977' and pipe stuck. Lost 75 bbls. mud. Worked pipe 4 hours and it came loose. Ran 7-5/8" bit, drilled 9194' - 9247'. 77# mud, 47 secs. visc., 1% sand, 2 cc/30 min., 1/32" F. C.

Drilled 7-5/8" hole from 9247' to 9268', total depth. Circulated 3-1/2 hours and ran Schlumberger electric log. Ran 7-5/8" bit to bottom and circulated 1-1/2 hours. Ran Micro-Log, tool would not go below 8980'.

Ran 7-5/8" x 11" hole opener and opened hole to 11" from 8955' to 9055'. 79# mud, 48 secs. viscosity, 1/2% sand, 2.6 cc/30 min. W. L., 1/32" F. C.

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Date

1954
9-15
to
9-18
incl.

Ran 7-5/8" x 11" hole opener and opened hole to 11" from 9055' to 9268'. 81-1/2# mud, 48 sec. visc., 1% sand, 2.5 cc/30 min., 1/32" F. C.

Built mud weight to 84#. Ran Micro-Log, took sidewall samples and ran directional survey. Ran 11" bit to bottom and conditioned hole for casing.

84# mud, 55 sec. visc., 1% sand, 2.3 cc/30 min. W. L., 1/32" F. C.

Laid down 4-1/2" drill pipe.

Ran and cemented at 9267.71', 228 joints 7" O. D., 23#, 26# and 29#, N-80, Spang, 8 round thread, L. T. & C. casing with 700 sacks Victor Hi-Temp cement, mixed to 116 - 118# slurry. Used 1 top rubber plug and displaced with 2118 cu. ft. (101 cu. ft. over theoretical) and plug bumped under 1000# at 5:55 A.M. September 18, 1954, by B - J Cementers. Two power wagons were used.

Casing Details:

Bottom 22 joints (890.77') was 29#, next 54 joints (2145.88') was 26#, next 150 joints (6179.55') was 23#, top 2 joints (66.41') was 29#. Casing worked over 10' interval while cementing. Baker centralizers fitted 18', 168', 308' and 376' above shoe. B. & W. scratchers placed as follows: two between 110' and 130' above shoe; four between 175' and 215' above shoe; four between 340' and 380' above shoe. Landed casing, installed blow-out prevention equipment. Tested blow-out prevention equipment at 1200# for 15 minutes, O.K.

9-19 Stood cemented.

9-20 Measured in 6-1/8" bit and casing scraper. Checked float collar at 9221'. Drilled out float collar and found soft cement for 2' or 3' below collar, then dropped to 9265' without encountering any cement. Took full weight of drill pipe at 9265'. Tested blow-out prevention equipment and casing under 1000# and it dropped gradually to 950#.

Attempted Water Shut-Off at 8922'. Measured in with Johnston Shoot-N-Test on 3-1/2" drill pipe, 930' water cushion, and checked cement plug at 9265', O.K. Pulled up and shot four jet holes at 8922'. Set packer at 8865'. Opened valve at 4:25 P.M. for 1 hour test. Had puff blow for 2 minutes then dead balance of test. Recovered 360' including 180' thin drilling fluid and bottom 180' thick drilling fluid. Charts indicated tool plugged.

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Date

1954
9-21

Circulated hole clean at 9250' and pulled out.

W.N.S.O. through shot holes at 8922'. Ran Johnston hydraulic tester on 3-1/2" drill pipe with 930' water cushion. Set packer at 8865'. Opened valve at 7:25 A. M. for 1 hour test. Light steady to light heading blow for duration of test. Slight gas odor. Recovered 2935' of gas cut drilling fluid, with rainbows of oil. Last 2 stands very thin and watery with film of oil. Charts showed tool operated satisfactorily.

Squeeze shot holes at 8922'. Ran Halliburton retrievable retainer on 3-1/2", 15.5#, Reed I. F. drill pipe. Set retainer at 9018'. Pressure tested casing at 1200# for 10 minutes, lost 150# pressure. Set retainer at 8837'. Broke down shot holes at 1200# pressure which dropped to 500#. Pumped 30 cu. ft. of water ahead and 10 cu. ft. water behind. Used 100 sacks Colton Hi-Temp cement. Mixed 118# slurry in 5 minutes and displaced in 55 minutes. Staged last 15 cu. ft., 1000# maximum pressure which held for 15 minutes. Estimate cement 15' above shot holes, however drill pipe was back scuttled with no cement returns. Cement in place at 7:00 P.M.

9-22

After standing cemented 15 hours, located top of cement at 8853'. Cleaned out hard cement from 8853' to 8926'. Pressure tested shot holes at 8922' with 1200# for 15 minutes, O.K.

Attempted W.S.O. test of shot holes at 8920'. Ran Johnston combination jet gun and hydraulic tester on 3-1/2" drill pipe with 940' water cushion. Checked top of cement plug at 8926'. Pulled up and jet perforated four 1/2" holes at 8920'. Set packer at 8866', opened valve at 9:25 P.M., September 22, 1954. Light steady blow for 15 minutes then dead balance of test. Recovered 1000' net rise of gassy and oil cut drilling fluid. No free water or oil. Charts showed 500# build up for test and tool operated satisfactorily. Water shut-off test witnessed and deferred by Division of Oil and Gas representative G. Lee.

DIVISION OF OIL AND GAS

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Date

1954
9-23

Squeezed shot holes at 8920'. Ran Halliburton retrievable retainer on 3-1/2", 15.5#, Reed I. F. drill pipe. Set retainer at 8837'. Broke down shot holes at 2000# pressure which dropped to 1200#. Pumped 30 cu. ft. of water ahead and 10 cu. ft. behind. Used 100 sacks Colton Hi-Temp cement. Mixed 120# slurry in 5 minutes and displaced in 40 minutes. Staged last 10 cu. ft., final pressure 3500# and still climbing. Bled back 4 cu. ft. on inside. Back scuttled a small quantity of cement. Cement in place at 12:25 P.M., September 23, 1954.

9-24

After standing cemented, ran 6" Globe bit and casing scraper. Located top of firm cement at 8826'. Cleaned out cement to 8922'. No cement from 8922' to 8926'. Cleaned out cement from 8926' to 8992'. Circulated for 1/2 hour and placed 1000# on shot holes. Pressure bled off to 600# in 15 minutes very gradually.

Squeezed shot holes at 8920' and 8922'. Ran Halliburton retrievable retainer on 3-1/2", 15.5#, Reed I. F. drill pipe. Set retainer at 8837'. Broke down shot holes at 2200# pressure which dropped to 1800#. Pumped 30 cu. ft. water ahead and 10 cu. ft. behind. Used 100 sacks Colton Hi-Temp cement. Mixed 120# slurry in 6 minutes and displaced in 35 minutes. Staged last 6 cu. ft. Displaced to within 4 cu. ft. of holes. Bled back 4 cu. ft. on inside. Back scuttled. Cement in place 7:25 P.M.

9-25

After standing cemented 15 hours, ran 6" bit and drilled out cement from 8821' to 8930'. Cleaned out to 8992', circulated and conditioned mud.

W.S.O. Test through shot holes at 8962'. Ran M. O. Johnston combination jet gun and hydraulic tester on 3-1/2" drill pipe, 940' water cushion. Checked top of cement plug at 8992'. Pulled up and jet perforated four 1/2" holes at 8962'. Set packer at 8900'. Opened valve at 10:00 P.M. for 1 hour test. Light puff blow for 1 minute, then dead 5 minutes, then medium steady blow balance of test. Gas in 15 minutes. Recovered 310' gassy oily drilling fluid. No free water. Charts showed 75# build up for test and tester operated satisfactorily. W. S. O. test witnessed and approved by Division of Oil and Gas Engineer George Lee.

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Date

1954
9-26

Ran 6-1/8" bit and casing scraper and cleaned out cement from 8992' to 9090', circulated and pulled out.

W.S.O. test through shot holes at 9077'. Ran M. O. Johnston combination jet gun and hydraulic tester on 3-1/2" drill pipe, 940' water cushion. Checked top of cement plug at 9093'. Pulled up and jet perforated four 1/2" holes at 9077'. Set packer at 9022'. Opened valve at 1:57 P.M. for 1 hour test. Very light heading blow to dead throughout test. Recovered net rise 280' oil cut drilling fluid. No free water. Charts showed tool operated satisfactorily.

Ran 6-1/8" bit and casing scraper and cleaned out from 9090' to 9240', circulated and conditioned mud for four hours. Spotted 15 barrels of oil on bottom.

9-27

Lane - Wells gun perforated interval 9130' to 9210' with 5-9/16" A-2 gun. Shot six 15/32" holes per foot for a total of 480 holes.

J. C. T. interval 9130' to 9210'. Ran M. O. Johnston hydraulic tester on 3-1/2" Reed I. F. drill pipe and 930' water cushion. Set packer at 9053'. Opened valve at 10:45 P.M. for 2 hours and 30 minute test, plus a one hour shut in. Very light to light steady blow for duration. Faint gas odor in 15 minutes. Recovered 5370' of oil, emulsion, and water, including 4740' of oil and emulsion, (cut varied from 14 to 50%) and 637' of water. Charts showed tool operated satisfactorily.

9-28

Lane - Wells gun perforated interval 9097' to 9030' and 9012' to 8964', with 5-9/16" A-2 gun. Shot six 15/32" holes per foot.

Ran bit and casing scraper. Scraped perforations and cleaned out to 9240'. Circulated 3 hours, came out of hole, laying down drill pipe.

9-29

Ran 295 joints of 2-7/8" O.D., 6-1/2#, 8 round thread, external upset tubing. Landed at 8962' K.B. measurement. Installed xmas tree. Ran swab and swabbed for total of 13 hours from 3500' depth. Swabbed total of 150 barrels of oil, well would not flow.

to

9-30

incl.

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Date

1954
9-30

Rig released at 4:00 P.M. September 30, 1954, and well turned over to production department for installation of pumping unit.

10-7

Well placed on pump October 7, 1954.

<u>Date</u>	<u>B/D</u>	<u>Tbg/Csg.</u>	<u>Cut</u>	<u>Mcf Gas</u>	<u>G.O.R.</u>
10-9	267	125/vacuum	14 - 22%		
10-10	252		15%		
10-11	247	120/500	13%		
10-16	227	160/1300		121	533
10-18	230	160/1400		139	604
10-19	212	160/1400	12%	140	660

Porter Sesnon, Barbara Sesnon Cartan,
Wm. T. Sesnon, Jr., Tenants in Common

"Sesnon Fee" #6 - Sec. 32, T. 3 N., R. 16 W., S.B.R.&M.

INCLINOMETER SURVEY

<u>Depth</u>	<u>Inclination</u>	<u>Depth</u>	<u>Inclination</u>
70'	0° 00'	4400'	2° 00'
110	0 30	4460	1 30
145	0 30	4472	1 30
210	0 30	4490	1 50
290	0 50	4565	1 50
380	0 50	4597	1 45
470	0 30	4657	1 05
588	0 50	4710	1 30
670	0 05	4791	1 30
760	0 00	4887	1 20
850	0 15	4937	2 20
933	0 00	5000	2 20
1025	0 20	5042	2 55
1202	1 05	5059	3 00
1292	1 00	5087	2 40
1380	1 05	5105	2 10
1480	1 20	5165	2 10
1510	0 50	5229	2 10
1670	1 05	5285	2 10
1760	1 30	5350	2 10
1840	1 05	5414	2 00
2019	1 00	5474	2 10
2130	1 00	5510	2 00
2220	0 30	5560	1 50
2320	0 15	5621	1 50
2410	0 10	5655	1 50
2545	0 50	5705	1 50
2620	0 50	5780	2 30
2690	1 10	5844	2 30
2790	0 50	5930	2 10
2915	1 00	6000	1 45
3040	0 45	6040	1 50
3210	0 30	6108	1 45
3440	0 30	6150	1 45
3640	0 30	6215	2 00
3870	0 50	6285	2 30
4070	0 50	6352	1 45
4360	2 10	6430	2 30

Porter Sesnon, Barbara Sesnon Cartan,
Wm. T. Sesnon, Jr., Tenants in Common

"Sesnon Fee" #6 - Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

Inclinometer Survey (Cont'd)

<u>Depth</u>	<u>Inclination</u>
6450'	1° 30'
6585	2 00
6605	2 00
6700	1 30
6795	1 00
6940	1 20
7090	1 30
7207	2 00
7288	1 30
7370	1 10
7433	1 00
7525	1 00
7612	1 00
7701	1 00
7748	0 45
7828	1 00
7921	0 45
8034	1 00
8158	1 15
8230	1 50
8330	1 00
8367	0 45
8435	1 00
8530	0 30
8650	0 45
8771	1 10
8890	0 00
8930	0 15
9078	1 00
9240	3 45

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Porter Sesnon, Barbara Sesnon Cartan,
Wm..T. Sesnon, Jr., Tenants in Common Field Aliso Canyon

Well No. "Sesnon Fee" #6 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Coring or Cased	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
9019'	9036'		Core #1	6"	6" Very soft fine grained <u>Oil stained sand</u> , washed appearance. Note: Also 18" of fill with shale and pebbles.
9036	9056		Core #2	7'	1' Hard firm, friable, pebbly oil stained and, tight appearing, oil staining somewhat mottled. 6' Soft firm, fine grained silty <u>oil sand</u> with several thin hard limey sandstone shells. Core very badly broken. No suitable samples for core analysis. Black CCl ₄ cut, with both petroleum and sour odor.
9056	9081		Core #3	18'	18' Homogeneous, massive, siltstone, occasional shell fragments. Top 6' oil stained with remainder gray. No good evidence of permeability in the interval. No samples for core analysis. One nodular concretion near bottom.
9081	9094		Core #4	0	No recovery.
9094	9114		Core #5	0	No recovery.
9114	9129		Core #6	7-1/2'	7-1/2' Fine grained silty firm friable <u>oil stained sand</u> , abundant platy bedding plane fractures. Sands have gray cast but good odor and black CCl ₄ cut. Several large pebbles in top of core (fill?).

SUBMIT IN DUPLICATE

FORM 101
CALIFORNIA STATE PRINTING OFFICESTATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Porter Sesnon, Barbara Sesnon Cartan,

Operator Wm. T. Sesnon Jr., Tenants in Common Field Aliso Canyon

Well No. "Sesnon Fee" #6 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Undried or Cured	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
9129'	9149'		Core #7	20'	16' Fine grained, silty, firm to soft friable <u>oil sand</u> , abundant platy bedding plane fractures, gray cast on bedding plane, good oil odor. 1-1/2 Coarse grained, soft friable <u>oil sand</u> , somewhat grayish washed appearance. Visual evidence of good permeability and porosity. 1' Gray siltstone, 1-1/2 Coarse grained soft friable <u>oil sand</u> with gray washed appearance particularly on sides of the core. Dark CCl ₄ cut with good petroleum odor.
9149	9169		Core #8	20'	12' Fine grained, firm friable, silty <u>oil sand</u> , plentiful bedding plane fractures, good odor and staining. Visual appearance of relatively low permeability and porosity. 7' Badly broken fragments of fine grained very silty oil stained sand, good CCl ₄ cut. 1' Hard, limy sandstone shell.
9169	9194		Core #9	0	No recovery. Discontinued coring due to bad hole conditions. Heaving shale mostly. Cores and sidewall samples described by Mr. C. L. Dorn. <u>TOTAL DEPTH: 9268'.</u> <u>Electric log to 9262'.</u>

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Porter Sesnon, Barbara Sesnon Cartan,

Operator Wm. T. Sesnon Jr., Tenants in Common Field Aliso Canyon

Well No. "Sesnon Fee" #6 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Dried or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<u>Sidewall Sample Descriptions</u>					
<u>Depth</u>	<u>Recovery</u>				<u>Description</u>
8911'	1/2"				Oil silt, brown, finely sandy, firm, friable, platy, low permeability and porosity.
8941	1/4"				Siltstone, brown, finely sandy, oil stained, firm, friable, low permeability and porosity. Faint CCl ₄ cut.
8945	1/2"				Siltstone, brown, clayey, soft, oil stained, good CCl ₄ cut, low permeability and porosity.
8979	0				Bullet left in hole.
9047	1/2"				Siltstone, finely sandy, soft, oil stained, good CCl ₄ cut, low permeability and porosity.
9086	1"				Siltstone, clayey, gray, soft, no apparent oil staining, no odor, no CCl ₄ cut, low permeability and porosity.
9102	1/2"				Siltstone, soft, very clayey, oil stained, good CCl ₄ cut, low permeability and porosity.
9117	1/2"				Siltstone, brown, soft, very clayey, oil stained, good CCl ₄ cut, low permeability and porosity.
9126	1/2"				Siltstone, brown, very clayey, oil stained, good CCl ₄ cut. Low permeability and porosity.
9197	1/2"				Siltstone, gray, very clayey, no oil staining, low permeability and porosity, no CCl ₄ cut.
9204	0				Bullet left in hole.
9211	1/8"				Siltstone, brownish gray, sample too small to ascertain if oil stained.
9227	0				
9239	1/8"				Siltstone, gray, very clayey, sample too small for oil stain determination, low permeability and porosity.
9247	0				
9253	1/4"				Siltstone, gray, clayey, no apparent oil staining, low permeability and porosity, no CCl ₄ cut.

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T 154-1130

OR

Special Report on Operations Witnessed

Page 2

PORTER SESNON, ET AL

Well No. "Sesnon Fee" 6, Sec. 32, T. 3 N, R. 16 W, S. B. B. & M.,

AND MR SACRE REPORTED THE FOLLOWING:

1. A Johnston tester was run into the hole on 3-1/2" drill pipe and packer set at 8865'.
2. The tester valve was opened at 7:25 a.m. and remained open for 1 hour. During this interval there was a light steady to heading blow throughout.
3. 2035' of thin oily drilling fluid was backscuttled.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed, 900' of thin oily drilling fluid was recovered in the drill pipe above the tester.
2. The recording pressure bomb chart showed that the tester valve was open 1 hour.

The operator decided to recement.

INSPECTOR G Y LEE VISITED THE WELL FROM 12:00 A.M. - 1:30 A.M. ON SEPTEMBER 23, 1954, AND MR SACRE REPORTED THE FOLLOWING:

1. On September 21, 1954, the 7" casing was recemented through perforations at 8922' with 100 sacks of cement of which 89 sacks was squeezed away under a final pressure of 1000 lb.
2. A pressure of 1200 lb. was applied to inside casing for 10 minutes after cleaning out to 8992'.
3. The 7" casing was shot-perforated with 4, 1/2" holes at 8920'.
4. A Johnston tester was run into the hole on 3-1/2" drill pipe and packer set at 8866'.
5. The tester valve was opened at 9:20 p.m. and remained open for 1 hour. During this interval there was a light blow for 15 minutes and no blow thereafter.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed, a net recovery of 1000' of oil and gas-cut thin drilling fluid was found in the drill pipe above the tester, equivalent to 7.4 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hour.

The operator decided to recement.

THE INSPECTOR ARRIVED AT THE WELL AT 1:00 A.M. ON SEPTEMBER 26, 1954, AND MR SACRE REPORTED THE FOLLOWING:

1. The 7" casing was recemented through the perforations at 8920' and 8922' in two stages on September 23 and 24, 1954, with a total of 200 sacks of cement, at a final pressure of 3500 lb.
2. The 7" casing was shot-perforated with 4, 1/2" holes at 8962'.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed, a net recovery of 310' of thin oil and gas-cut drilling fluid was found in the drill pipe above the tester, equivalent to 2.3 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hour.

THE 7" SHUT-OFF AT 8962' IS APPROVED.

GYL:ES

cc Company
Haston & Sacre

R. D. BUSH
State Oil and Gas Supervisor

By *R. H. Hallberg* Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 154-922

Los Angeles 15

Calif. August 17 1954

Mr William T Sesnon, Jr

707 Maple Drive

Beverly Hills Calif.

Agent for PORTER SESNON, ET AL

DEAR SIR:

Operations at your well No. "Sesnon Fee" 6 Sec. 32, T. 3 N, R. 16 W, S B B. & M.,
Aliso Canyon Field, in Los Angeles County, were witnessed by
V. F. Gaede, Engineer, representative of the supervisor,
on August 9, 1954. There was also present J. R. Senske, Drilling Foreman;
F. B. Dearing, Driller.

Casing Record 13-3/8" cem. 609'. T.D. 5780'.	Junk None

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

The ~~inspector~~ ^{Engineer} arrived at the well at 1:45 p.m. and Mr. Senske reported:

1. A 12 1/4" rotary hole was drilled from the surface to 2000', and enlarged to 18-5/8" to 609'.
2. On July 27, 1954, 13-3/8", 54.5 lb. casing was cemented at 609' with 550 sacks of cement.
3. Cement returned to the surface.
4. An 11" rotary hole was drilled from 2000' to 5780'.

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

1. A Shaffer complete shut-off gate for closing in the well with the drill pipe out of the hole.
2. A Hydril blowout preventer for closing around the 4-1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure stopcock into the 13-3/8" casing below the above equipment.

The inspection was completed at 2:15 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

VFG:OH *D/K*

cc Porter Sesnon et al
2 Pine Street
San Francisco 11 California

Easton & Sacre
1660 Oak Street
Bakersfield California

E. H. MUSSER
State Oil and Gas Supervisor

By *A. N. Halling* Deputy

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

D

No. P. 154-851

Mr. William T Sesnon Jr
707 N Maple Drive Los Angeles 15 California
Beverly Hills California 19
 Agent for PORTER SESNON, ET AL

DEAR SIR:

Your _____ proposal to drill Well No. "Sesnon Fee" 6,
 Section 32, T. 3 N, R. 16 W, S. B. B. & M., Aliso Canyon Field, Los Angeles County,
 dated July 8 1954, received July 12 1954, has been examined in conjunction with records filed in this office.

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

THE NOTICE STATES:

"Location of Well: 3439.36 feet South along section line and 8328.38 feet West at right angles to said line from Station 84 Aliso Canyon Line
 Elevation of ground above sea level 2130 feet ground datum.
 All depth measurements taken from top of Kelly Bushing which is 10.8 feet above ground."

PROPOSAL:

"Proposed Casing Program

Size of Casing	Weight	Grade and Type	Top	Bottom	Cementing Depths
13-3/8"	54.5# 23#, 26#	J-55 Smls.	Surface	600'-1500'	Cementing depths to depend on lost circ. zones.
7"	29#	N-80 Smls.	Surface	8965'±	8965'±
5-1/2"	17#	J-55 Smls.	8940'±	9265'±	

Intended zone or zones of completion: Sesnon Zone 8965'± - 9265'±

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

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS
 - (a) To inspect the installed blowout prevention equipment before drilling below 3000'.
 - (b) To witness a test of the effectiveness of the 7" shut-off.

PEK:ES

cc Porter Sesnon et al
Easton & Sacre

Bond No. L 95704

E. H. MUSSER

State Oil and Gas Supervisor

By A. W. Walling Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

JUL 12 1954

037-00652

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

San Francisco Calif. July 8, 19 54

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 the work of drilling well No. "Seson Fee" 6, Sec. 32, T. 3-N, R. 16-W, S. B.B. & M., Aliso Canyon Field, Los Angeles County.

Legal description of lease *****
(Attach map or plat to scale)

Location of Well: 3439.36 feet South along section line and 8328.38 feet West at right angles to said line from Station 84 Aliso Canyon Line

Elevation of ground above sea level 2130 feet ground datum. All depth measurements taken from top of Kelly Bushing which is 10.8 feet above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
13-3/8"	54.5#	J-55 Smls.	Surface	600'-1500'	Cementing depths to depend on lost circ. zones.
7"	23#, 26#, 29#	N-80 Smls.	Surface	8965'±	8965'±
5-1/2"	17#	J-55 Smls.	8940'±	9265'±	

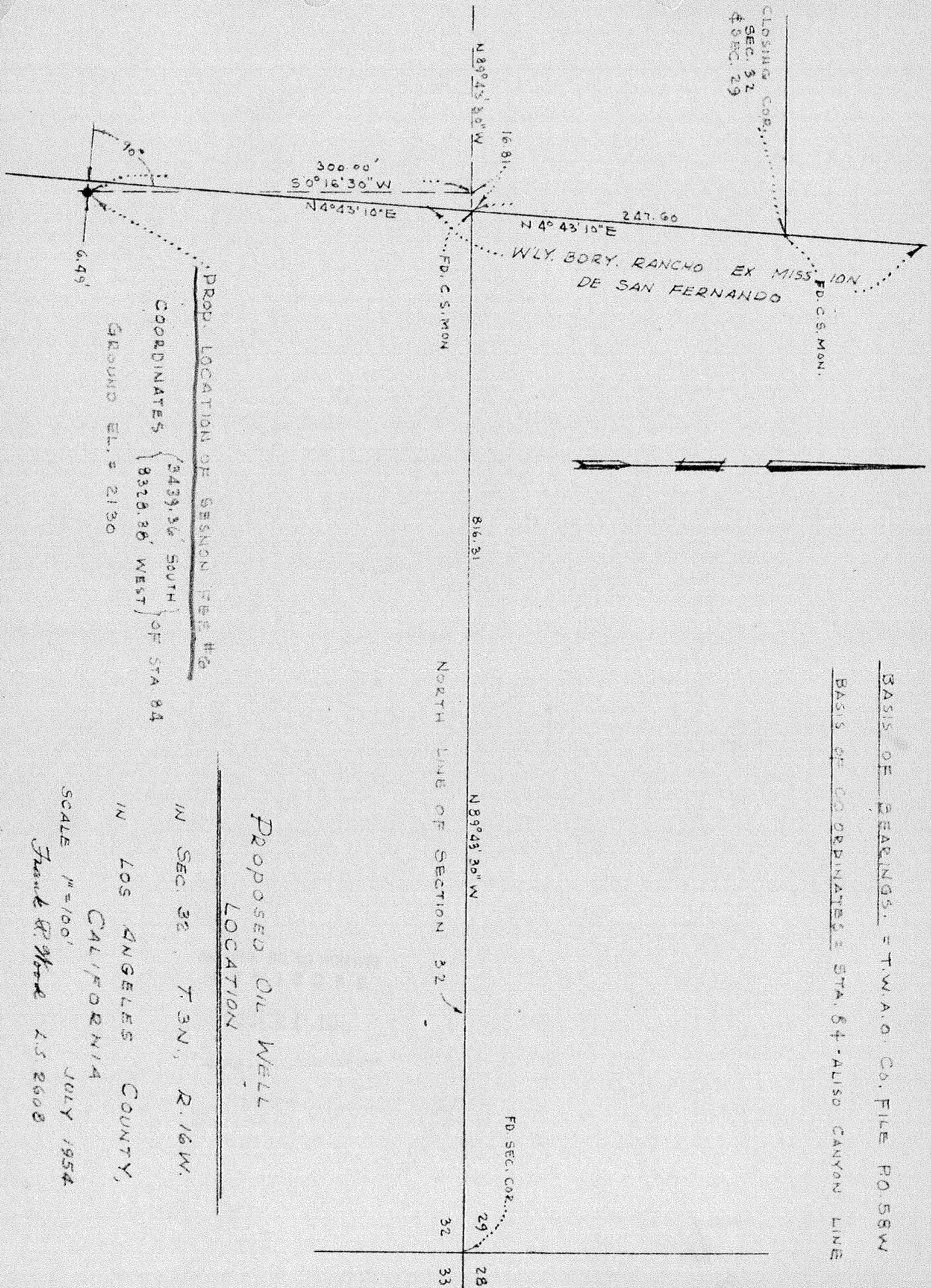
Intended zone or zones of completion: Seson Zone 8965'± - 9265'±

Note: Please forward copies of all notices to Easton & Sacre, 1660 Oak Street, Bakersfield, California

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

Address: 2 Pine Street San Francisco 11, California
Telephone Number: Exbrook 2-1855
By: Porter Seson, Barbara Seson Cartan, Wm. T. Seson Jr., Tenants in Common (Name of Operator)

CLOSING COR. SEC. 32
4890.29



BASIS OF BEARINGS - T.W.A.O. CO. FILE P.O. 58W
BASIS OF COORDINATES - STA. 6+ - ALSO CANYON LINE

PROPOSED OIL WELL LOCATION

IN SEC. 32, T. 3N., R. 16W.
IN LOS ANGELES COUNTY,
CALIFORNIA

SCALE 1" = 100'
JULY 1954
Frank R. Moore L.S. 2608