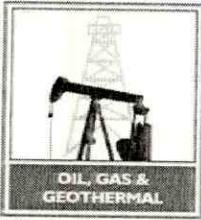


API #				Well Name	
037 - 16938				South Orange Unit AC-21	
Task	Date	Initial	no. of pgs. / logs		Notes
Prepped Data file	3/27/15	JN	15/6		
Scanned Data file	3/27/15	JN			
QC/Upload/Verify	4/3/15	mac	46		
Scanned Log/s	3/27/15	JN	TIFS	PDFS	1/6
QC/Upload/Verify	4/3/15	mac	1/6		
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/Upload/Verify					
Scanned Log/s			TIFS	PDFS	
QC/Upload/Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/Upload/Verify					
Scanned Log/s			TIFS	PDFS	
QC/Upload/Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/Upload/Verify					
Scanned Log/s			TIFS	PDFS	
QC/Upload/Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/Upload/Verify					
Scanned Log/s			TIFS	PDFS	
QC/Upload/Verify					
Update Scanning	Date	Initial	no. of pgs. / logs		Notes
Scanned Data file					
QC/Upload/Verify					
Scanned Log/s			TIFS	PDFS	
QC/Upload/Verify					



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES

5816 Corporate Ave., Suite 100, Cypress, CA 90630-4731 Phone:(714) 816-6847

NOTICE OF RECORDS DUE

Cypress, California
7/23/2015

Mr. Rey Javier
Brea Canon Oil Co. (B6100)
23903 S. Normandie Ave.
Harbor City, CA 90710

In accordance with Division 3 of the California Public Resources Code, the following records are due
(covering the reworking notice dated 9/9/2010) for your well "South Torrance Unit" AC-21 (037-16938).

Torrance Field, Los Angeles County, Sec. 30, T. 04S, R. 13W, SB B.&M.

Records, in duplicate are due within 60 days after completion of any well work or tests. Failure to provide such records may result in enforcement action, including issuance of violations, civil penalties and orders of the supervisor, pursuant to PRC 3236.5.

- | | | |
|--|---|--|
| <input type="checkbox"/> Well Summary (Form OG 100) | <input type="checkbox"/> All Logs | <input type="checkbox"/> Velocity Survey |
| <input type="checkbox"/> History (Form OG 103, OGG 103) | <input type="checkbox"/> Dipmeter (computed) | <input type="checkbox"/> Temperature Survey |
| <input type="checkbox"/> Core of sidewall sample
(Form OG 101, OGG 101) | <input type="checkbox"/> Oil and/or gas analysis | <input type="checkbox"/> Spinner survey |
| <input type="checkbox"/> Directional survey | <input type="checkbox"/> Water analysis | <input type="checkbox"/> Standard Annular Pressure Test |
| <input type="checkbox"/> Other | <input type="checkbox"/> Pressure measurements
(flowing or static) | <input checked="" type="checkbox"/> RA Tracer survey
(fluid migration test) |

RA surveys were conducted on 3/20/2013 and 3/18/2015. Please send the results from those two surveys.

REPORTS FOR THE MONTH OF _____ : Production, oil and gas disposition, and injection reports are due on or before the 30th day of each month for the preceding calendar month. Division forms must be signed in the spaces provided.

OIL AND GAS OPERATION

GEOTHERMAL OPERATION

- Production and disposition reports
(Form OG 110 or computer report)
- Injection reports
(Form OG 110B or computer report)

- Production reports
(Form OGG 110)
- Injection reports
(Form OGG 110B)

EXPIRED _____

CANCELLED _____

MAILED _____

EMAILED 7.23.15 TL

Name: Michael Okafor

Title: Associate Oil and Gas Engineer

Signature: _____

Michael N. Okafor

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	Brea Canon Oil Co.	Well: " South Torrance Unit " AC-21
API#:	037-16938	Sec. 30 , T. 4S , R. 13W . S. B. B. & M.
County:	Los Angeles	Field: Torrance

RECORDS RECEIVED	DATE	STATUS		
Well Summary (Form OG100)	11/23/2010 (2)	Producing <i>ACTIVE</i>	<input checked="" type="checkbox"/>	Drilling <input type="checkbox"/>
History (Form OG103)		Abandoned	<input type="checkbox"/>	Idle <input type="checkbox"/>
Core Record (Form OG101)		Reabandoned	<input type="checkbox"/>	Other <input type="checkbox"/>
Directional Survey		WELL TYPE		
Sidewall Samples		Oil	<input type="checkbox"/>	Waterflood <input checked="" type="checkbox"/>
Date final records received.		Gas	<input type="checkbox"/>	Water Disposal <input type="checkbox"/>
Electric Logs:		Water Source	<input type="checkbox"/>	Cyclic Steam <input type="checkbox"/>
Other:		Observation	<input type="checkbox"/>	Steam Flood <input type="checkbox"/>
		Exploratory	<input type="checkbox"/>	Fire Flood <input type="checkbox"/>
		Dry Hole	<input type="checkbox"/>	Other <input type="checkbox"/>
		EFFECTIVE DATE:	9/20/2010	
		REMARKS:	CTI	

ENGINEERS CHECK LIST		CLERICAL CHECK LIST
<input checked="" type="checkbox"/>	Summary, History & Core Record (Dupl.)	Location change
<input type="checkbox"/>	Electric Log	Elevation change
<input checked="" type="checkbox"/>	Operator's Name	Form OGD121
<input checked="" type="checkbox"/>	Signature	Form OGD150b (Release of Bond)
<input checked="" type="checkbox"/>	Well Designation	Duplicate logs to archives
<input type="checkbox"/>	Location	Notice of Records Due
<input type="checkbox"/>	Elevation	EDP 2-17-11 VM
<input type="checkbox"/>	Notices	District Date Base
<input checked="" type="checkbox"/>	"T" Reports	Final Letter (OG159)
<input type="checkbox"/>	Casing Record	Update Center 2-17-11 VM
<input type="checkbox"/>	Plugs	
<input type="checkbox"/>	Directional Survey	
<input checked="" type="checkbox"/>	Production/Injection (FAP Codes: 782 06 20)	
<input checked="" type="checkbox"/>	E Well on Prod., enter EDP	FIELD CHECK LIST
<input type="checkbox"/>	Surface Inspection Required	Date Surface Inspection Completed:
<input type="checkbox"/>	Surface inspection Waived (Island)	Other:
<input type="checkbox"/>	Well site restoration deferred (common cellar)	
<input type="checkbox"/>	Final Letter Required AB: <input type="checkbox"/> REAB: <input type="checkbox"/>	
<input type="checkbox"/>	Other:	

RECORDS NOT APPROVED	RECORDS APPROVED
(Reason:)	2/7/2011 GB
	(Signature)
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK
	N/C

45

F

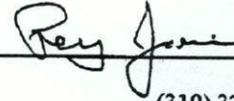
SUBMIT IN DUPLICATE

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

HISTORY OF OIL OR GAS WELL

Operator Brea Canon Oil Co, Inc. Field Torrance County Los Angeles
Well South Torrance Unit AC-21, Sec 30, T 4S, R 13W, SB B.&M.
A.P.I. No. 037-16938 Name Rey Javier Title Vice President
(Person submitting report) (President, Secretary or Agent)
Date 11/23/10

Signature



23903 S. Normandie Ave, Harbor City, CA 90710

(Address)

(310) 326-4002

(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

Acid Stim

2010

9/13

Moved in Rig and Equipment and rigged up. Removed surface equipment and installed Class II BOPE and working floor. Found BOPE leaking internally when function testing and not able to get a proper seal. Removed working floor and swapped out BOPE for a new one. Pressure tested 8-5/8" csg. with 500 psi and held for 15 min. Bled off pressure and well still flowing at a good rate through tbg from the formation. Secured well.

9/14

Released and pulled Weatherford 8-5/8" Lok Set Packer. Ran 1-1/2" Sinker Bar on the sandline and got pickup @ 3740' - 3786' is ED. Ran original 2-7/8" injection tbg with 783' tail of 2-3/8" tbg and 3.063" O.D. sawtooth collar on bottom, tagged fill @ 3768'. Rigged for and established circulation, changed well over to lease water and cleaned out sand & scale from 3768' to 3786' E.D., having to rotate tbg. at times. Circulated hole clean, pulled tbg out of hole and started back in hole with tbg and Weatherford 5-3/4" positive scraper set @ 1/4" under drift. Secured well. Note: Recovered 100 bbls of oil from well flowing & being changed over.

9/15

Continued running in hole with Weatherford 5-3/4" Scraper set @ 1/4" under drift (4.615" O.D.). Scraper stopped @ known bad spot in 5-3/4" liner @ 3172'. Set 4K # tbg weight on Scraper and it took 30K # over tbg string weight to pull out of bad spot. Bucks tested 2-7/8" tbg out of hole @ 5K psi - no leaks - all tbg tested good, laid down Scraper. Ran in hole w/ Weatherford 5-3/4" Wire Brush to 3786' ED. Brushed perforations from 3750' to 3430' with 3' strokes making 5 passes plus perfs @ 3365' to 3305' with 2 passes and perfs @ 3260' to 3250' with 3 passes. pulled tbg above TOL and secured well.

9/16

Lowered tbg and wire bush and tagged at 3786' ED. With wire brush at 3770' MTS spotted 300 gal each of 15% HCl, 12/3 HCl/HF and 2% ammonium chloride water down tbg. Brushed perforations in 5-3/4" liner with 15% HCl Acid from 3770' to 3430' with 3' strokes making 5 passes. Pumped 15 bbls of clean injection water down csg with tbg closed @ 1 bpm w/ 500 psi. Let pressure bleed to formation. Bled to 60 psi in 1 hr, bled pressure off well to mud pump and recovered 1 bbl of water. MTS completed pumping ammonium chloride water down tbg and well stopped flowing back but csg stood full. With tbg @ 3770', repeated wire brushing procedure of perforations with 12/3 HCl/HF Acid and displacing with clean injection water per program with tbg depths @ 3430' and 3786'. With tbg @ 3000', pumped 10 bbls of clean injection water down tbg. and put well on injection down csg @ 600 bpd rate with 110 psi.

9/20

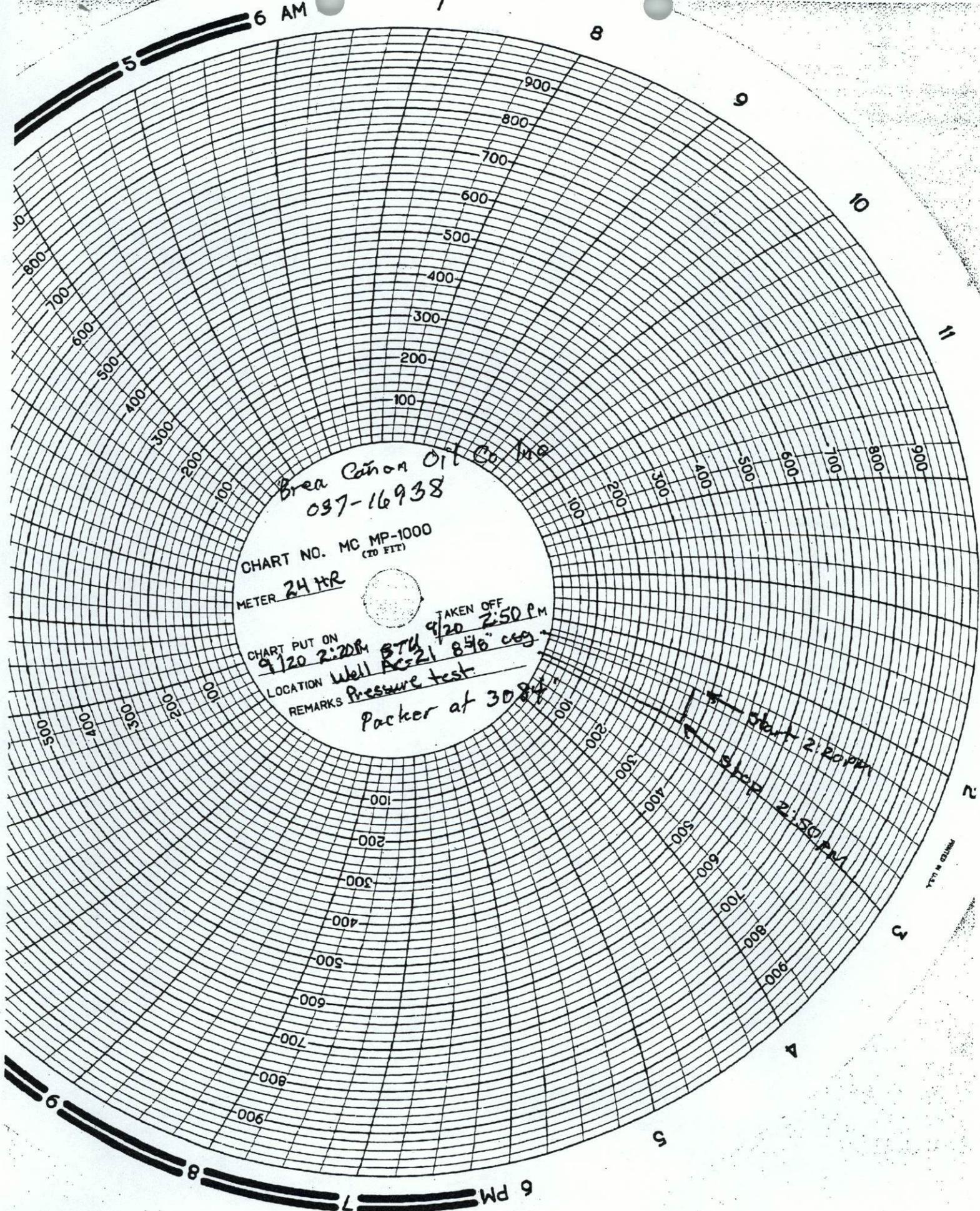
Pressure bled off to formation but well has a slight flowback. Pulled tbg and wirebrush laying down all 2-3/8" tbg. Ran in hole with original tested 2-7/8" tbg with 8-5/8" redressed Lok Set Packer with 2-Jt tail and bell collar on bottom. Removed BOP and landed flange with packer @ 3084' and bell collar @ 3147'. Installed surface equipment, dumped 25 gal of packer fluid down csg and pressure tested 8-5/8" csg from 3084' to surface with 360 psi and held solid for 30 min. DOG waived witnessing test per W. Chen, so charted test for them. BCO Operator returned well to injection @ 250 bpd rate, cleaned location and moved rig and equipment out.

✓ 9/22 500 BWIPD at 480 psi.

9/25 794 BWIPD at 800 psi.

OG103 (8/93/GSR 1/5M)

44



Brea Canon Oil Co. Inc
037-16938

CHART NO. MC MP-1000
(70 FIT)

METER 24 HR

CHART PUT ON 9:20 2:20 PM BTU
TAKEN OFF 9:20 2:50 PM

LOCATION Well Ace 21 8 1/2" csg.
REMARKS Pressure test.
Packer at 3084'

Start 2:20 PM
Stop 2:50 PM

6 PM

43

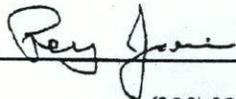
SUBMIT IN DUPLICATE

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

HISTORY OF OIL OR GAS WELL

Operator Brea Canon Oil Co, Inc. Field Torrance County Los Angeles
Well South Torrance Unit AC-21, Sec 30, T 4S, R 13W, SB B.&M.
A.P.I. No. 037-16938 Name Rey Javier Title Vice President
(Person submitting report) (President, Secretary or Agent)

Date 11/23/10

Signature 

23903 S. Normandie Ave, Harbor City, CA 90710
(Address)

(310) 326-4002
(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.

Acid Stim

- | Date | Description |
|------|---|
| 2010 | |
| 9/13 | Moved in Rig and Equipment and rigged up. Removed surface equipment and installed Class II BOPE and working floor. Found BOPE leaking internally when function testing and not able to get a proper seal. Removed working floor and swapped out BOPE for a new one. Pressure tested 8-5/8" csg. with 500 psi and held for 15 min. Bled off pressure and well still flowing at a good rate through tbg from the formation. Secured well. |
| 9/14 | Released and pulled Weatherford 8-5/8" Lok Set Packer. Ran 1-1/2" Sinker Bar on the sandline and got pickup @ 3740' - 3786' is ED. Ran original 2-7/8" injection tbg with 783' tail of 2-3/8" tbg and 3.063" O.D. sawtooth collar on bottom, tagged fill @ 3768'. Rigged for and established circulation, changed well over to lease water and cleaned out sand & scale from 3768' to 3786' E.D., having to rotate tbg. at times. Circulated hole clean, pulled tbg out of hole and started back in hole with tbg and Weatherford 5-3/4" positive scraper set @ 1/4" under drift. Secured well. Note: Recovered 100 bbls of oil from well flowing & being changed over. |
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| 9/20 | Pressure bled off to formation but well has a slight flowback. Pulled tbg and wirebrush laying down all 2-3/8" tbg. Ran in hole with original tested 2-7/8" tbg with 8-5/8" redressed Lok Set Packer with 2-Jt tail and bell collar on bottom. Removed BOP and landed flange with packer @ 3084' and bell collar @ 3147'. Installed surface equipment, dumped 25 gal of packer fluid down csg and pressure tested 8-5/8" csg from 3084' to surface with 360 psi and held solid for 30 min. DOG waived witnessing test per W. Chen, so charted test for them. BCO Operator returned well to injection @ 250 bpd rate, cleaned location and moved rig and equipment out. |
| 9/22 | 500 BWIPD at 480 psi. |
| 9/25 | 794 BWIPD at 800 psi. |

42

6 AM

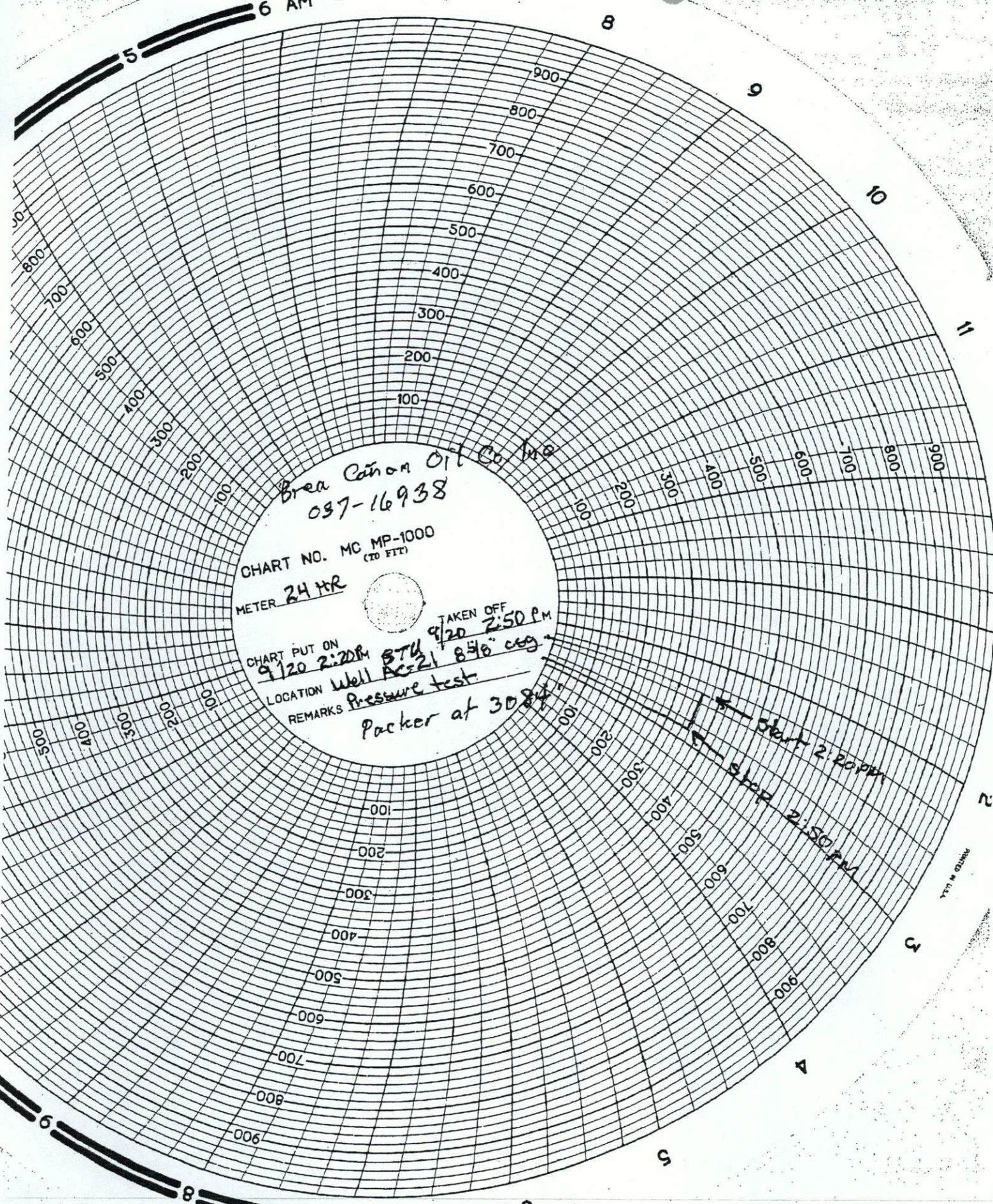
1

8

9

10

11



Brea Canon Oil Co Inc
 097-16938

CHART NO. MC MP-1000
 (70 FT)

METER 24 HR

CHART PUT ON 9/20 2:20 PM
 TAKEN OFF 9/20 2:50 PM

LOCATION Well Acc-21 8 1/2" csg.

REMARKS Pressure test.
 Packer at 3084'

Start 2:20 PM

Stop 2:50 PM

TYPE IN CURVES

9

8

7

6 PM

41

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

No. T 110- 0543

REPORT ON OPERATIONS
WATERFLOOD PROJECT

Cypress, California
February 8, 2011

Rey Javier, Agent
BREA CANON OIL CO.
23903 S. Normandie Avenue
Harbor City, CA 90710

Your operations at well **"South Torrance Unit" AC- 21**, A.P.I. No. **037-16938**, Section **30**, T. **4S**, R. **13W**, S.B. B & M., **Torrance** Field, **Los Angeles** County, were witnessed on **10/28/2010**. **W. Chen**, representative of the supervisor, was present from **1215** to **1230** There was also present **Gary Adams**, **Brandon Cesenas**, **Production Data, Inc.**

The operations were performed for the purpose of demonstrating that all of the injection fluid is confined to the formations below 3166'.

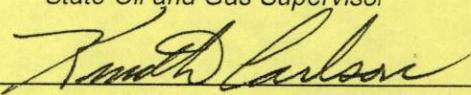
DECISION: APPROVAL

DEFICIENCIES NOTED AND CORRECTED: **None**

CONTRACTOR: **PDI**

Elena M. Miller

State Oil and Gas Supervisor

By: 

For: 

M. Ali Khan, Acting District Deputy

GB:dj

cc: Update

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

No. T 110-0543

MECHANICAL INTEGRITY TEST (MIT)

Operator: Brea Cañon Oil Co. Well: "South Torrance Unit" AC-21

Sec. 30 T. 4S R. 13W B.&M. S.B. API No.: 037-16938 Field: Torrance

County: Los Angeles Witnessed/Reviewed on: 10-28-2010

W. Chen, representative of the supervisor, was present from 1215 to 1230.

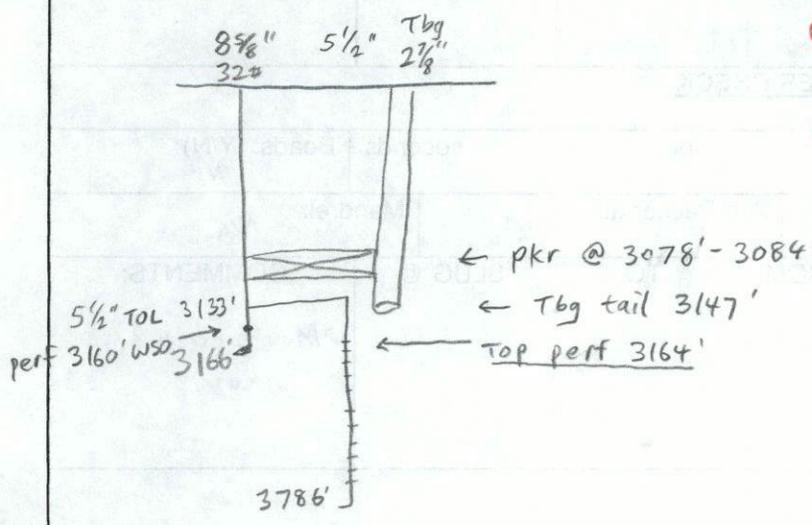
Also present were: Gary Adams & Brendan Cesenas, Production Data, Inc.

Casing record of the well:
13 3/8" cem 41' ; 8 5/8" cem 3166' WSO, perf 3160' wso ; 5 3/4" Id 3133' - 3786',
perfs @ int 3165' - 3786'. TD 3787'

The MIT was performed for the purpose of (P) 3166'

The MIT is approved since it indicates that all of the injection fluid is confined to the formations below 3166 feet at this time.

The MIT is not approved due to the following reasons: (specify)



CONTRACTOR:
Production Data, Inc.

UNCORRECTABLE DEFICIENCIES:
N/A

DEFICIENCIES NOTED AND TO BE CORRECTED:
N/A

DEFICIENCIES NOT YET CORRECTED:
N/A

Well: <i>South Torrance Unit AC - 21</i>	Date: <i>10-28-2010</i>	Time: <i>1215 - 1230</i>
Observed rate: <i>500</i> B/D	Meter rate: <i>500</i> B/D	Fluid level: <i>0</i> feet
Injection pressure: <i>900</i> psi	MASP: <i>-</i>	Pick-up depth: <i>3784'</i> feet
Initial annulus pressure: <i>0</i> psi	Pressure after bleed-off: <i>0</i> psi	

Casing vented during test (Y/N) <i>Y</i>	Survey company: <i>Production Data, Inc. (PDI)</i>
--	--

SPINNER COUNTS						
DEPTH	COUNTS	RATE	DEPTH	COUNTS	RATE	COMMENTS:
/						

TRACER CASING AND TUBING RATE CHECKS			
Interval	Time (sec.)	Rate (B/D)	Background log: <i>3000'</i> to <i>3250'</i>
<i>3334'-3340'</i>	<i>68</i>	<i>175</i>	COMMENTS:
<i>3263'-3270'</i>	<i>55</i>	<i>255</i>	
<i>3100'-3125'</i>	<i>25</i>	<i>500</i>	
<i>3193'-3203'</i>	<i>56</i>	<i>360</i>	
<i>100'-125'</i>	<i>60</i>	<i>-</i>	

TOP PERFORATION CHECK			
Top perforation depth: <i>3164'</i>	Wait at: <i>3100'</i> for <i>60</i> seconds	Beads: (Y/N) <i>N</i>	

Casing shoe at: <i>8 5/8" @ 3166'</i>	WSO holes at: <i>3160'</i>	Arrival time: <i>Calculated</i> / <i>Actual</i>
---------------------------------------	----------------------------	---

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
<i>3100'</i>	<i>3125'</i>	<i>3100'</i>				<i>> Moving below 3166' okay.</i>
<i>3125'</i>	<i>3225'</i>	<i>3175' (14/sec)</i>				
<i>3225'</i>	<i>3000'</i>	<i>3195' (19/sec)</i>				

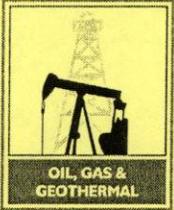
PACKER CHECK			
--------------	--	--	--

Packer at: <i>3078'-3084'</i>	Wait at: <i>3100'</i> for <i>60</i> seconds	Beads: (Y/N) <i>N</i>
-------------------------------	---	-----------------------

Tubing tail at: <i>3147'</i>	Tubing size: <i>2 7/8"</i>	2nd Packer at: <i>N/A</i>	Mandrel: <i>N/A</i>
------------------------------	----------------------------	---------------------------	---------------------

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
<i>3100'</i>	<i>3125'</i>	<i>3100'</i>				<i>> Moving below 3166' okay.</i>
<i>3125'</i>	<i>3225'</i>	<i>3175' (14/sec)</i>				
<i>3225'</i>	<i>3000'</i>	<i>3195' (19/sec)</i>				

COMMENTS:
- Reviewed only, okay.



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
5816 Corporate Ave., Suite 200 Cypress, CA 90630-4731
Phone:(714) 816-6847 Fax:(714) 816-6853

No. T 112-0302

REPORT ON OPERATIONS

WATER FLOOD PROJECT
TAR, RANGER & MAIN ZONES, SOUTH

Mr. Rey Javier
Brea Canon Oil Co. (B6100)
23903 S. Normandie Ave.
Harbor City, CA 90710

Cypress, California
May 21, 2012

Your operations at well "**South Torrance Unit**" AC-21, A.P.I. No. 037-16938, Sec. 30, T. 04S, R. 13W, SB B.&M., **Torrance** field, in **Los Angeles** County, were witnessed on 9/16/2010, by **N. Heda**, a representative of the supervisor.

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

DECISION: **APPROVED**

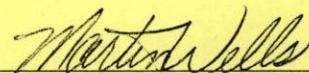
DEFICIENCIES NOTED AND CORRECTED: None

GB/dj

Tim Kustic

State Oil and Gas Supervisor

By



Daniel J. Dudak, Acting District Deputy

JKMA
5/16/12

BLOWOUT PREVENTION EQUIPMENT MEMO

112-0302

Operator Brea Canon Oil Co. Well "South Torrance Unit" AC-21 Sec. 30 T. 4S R. 13W
 Field Torrance County Los Angeles Spud Date _____
VISITS: Date Engineer Time Operator's Rep. Title
 1st 9/16/2010 N. Heda (1110 to 1125) Rick VanHooser rig supervisor
 2nd _____ (_____ to _____) _____ _____
 Contractor Oil Well Service Rig # 32 Contractor's Rep. & Title _____
 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 _____ casing are approved.

Proposed Well Opns: rework . MACP: _____ psi **REQUIRED BOPE CLASS:** _____
 Hole size: _____ " fr. _____ " to _____ " to _____ " & _____ " to _____ "

CASING RECORD OF BOPE ANCHOR STRING					Cement Details			Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at				Casing	Annulus

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.
RD	2-7/8	Townsend	81	9	3M		.75						
RD	cso	Townsend	81	9	3M		.75						

ACTUATING SYSTEM				TOTAL: 1.5		AUXILIARY EQUIPMENT							
Accumulator Unit(s) Working Pressure _____ psi								Connections					
Total Rated Pump Output _____ gpm				Fluid Level _____		No.	Size (in.)	Rated Press	Weld	Flange	Thread	Test Press.	
Distance from Well Bore <u>25</u> ft.				x _____									
Accum. Manufacturer		Capacity		Precharge		Fill-up Line							
1			gal.	psi	x	Kill Line							
2			gal.	psi	x	Control Valve(s)		3		3M			x
CONTROL STATIONS				Elec.	Hyd.	Pneu.	Check Valve(s)						
Manifold at accumulator unit							Aux. Pump Cnct.						
Remote at Driller's station							Choke Line						
Other: handpump					x		Control Valve(s)						
EMERG. BACKUP SYSTEM				Press.	Wkg. Fluid	Pressure Gauge							
1	N ₂ Cylinders	1	L= 51 "	2450	7.7 gal.	Adjstble Choke(s)							
	Other:	2	L= "		gal.	Bleed Line							
		3	L= "		gal.	Upper Kelly Cock							
		4	L= "		gal.	Lower Kelly Cock							
		5	L= "		gal.	Standpipe Valve							
		6	L= "		gal.	Stndpipe Pres. Gau.							
TOTAL: 7.7					gal.	x	Pipe Safety Valve			2-7/8	3M		
HOLE FLUID MONITORING EQUIPMENT				Alarm Type		Internal Preventer							
		Audible	Visual	Class		Hole Fluid Type		Weight	Storage Pits (Type & Size)				
Calibrated Mud Pit				A		Lease water			180 bbl				
Pit Level Indicator				B		REMARKS AND DEFICIENCIES:							
Pump Stroke Counter				C									
Pit Level Recorder													
Flow Sensor													
Mud Totalizer													
Calibrated Trip Tank													
Other:													

36

FLOWOUT PREVENTION EQUIPMENT

CONTRACTOR:

Oil Well Service

UNCORRECTABLE DEFICIENCIES:

DEFICIENCIES NOTED AND TO BE CORRECTED:

n/a

DEFICIENCIES CORRECTED:

U-8

n/a

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

No. P 110-0572

PERMIT TO CONDUCT WELL OPERATIONS

WATERFLOOD PROJECT

782
(Field Code)

06
(Area Code)

20
(New Pool Code)

20
(Old Pool Code)

Rey Javier, Agent
BREA CANON OIL CO.
23903 S. Normandie Avenue
Harbor City, CA 90710

Cypress, California
September 9, 2010

Your proposal to rework (acid stimulation and reset packer) well "South Torranc Unit" AC-21, A.P.I. No. 037-16938, Section 30, T. 4S, R. 13W, S.B. B. & M., Torrance Field, Onshore area, Tar, Ranger and South Main pool, Los Angeles County, dated 8/31/2010, received 8/31/2010 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment with hydraulic controls, equivalent to this Division's Class II2M requirements, or better, shall be installed and maintained in operating condition.
2. Well killing fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. All fluid injection shall be done through tubing with packer set in cemented casing immediately above the intended zone of injection.
4. Prior to any sustained injection above of 0.90 psi per foot of depth as measured at the sand face, step-rate and profile tests shall be made. The results of these tests and the proposed method of operations as to input rate, pressure and water distribution by subzones shall be submitted to this Division for approval.
5. Within three months after injection is started and every two years thereafter, this Division shall be furnished with sufficient data to confirm the confinement of the injected fluid to the intended zone of injection and to demonstrate the mechanical integrity of the 8 5/8" casing, injection tubing and packer.
6. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
7. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - ✓ a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
 - ✓ b. Witness a pressure test of the 8 5/8" casing prior to injection.
 - ✓ c. Witness the running of an injection survey.

NOTE:

1. A crew drill may be required at the time of the blowout prevention equipment inspection.
2. This well shall conform to the provisions set forth in our letter dated February 12, 1986 approving the project.
3. Hydrogen sulfide gas is known to be present in this area, adequate safety precautions shall be taken prior to commencing operations.

GPB:gpb

cc: Update
EDP

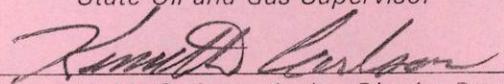
Project Code: M12
BLANKET BOND

Engineer: Grace P. Brandt

Phone: 714/816-6847

Elena M. Miller

State Oil and Gas Supervisor

By 
For Kenneth M. Carlson, Acting 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.

34

S/GB

P# 110-0572



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

FOR DIVISION USE ONLY			
Bond	Forms		
	OGD114	OGD121	
BB	9-11-10 KF	9-7-10 KF	/

NOTICE OF INTENTION TO REWORK / REDRILL WELL

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

M12
782-06-20
onshore
Tar-Ranger
& South Main
Revised
2/2/80

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework / redrill well South Torrance Unit AC-21, API No. 037-16938

Sec. 30, T. 4S, R. 13W, S.B. B.&M., Torrance 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.)

- 14" cmtd at 41'.
- 8-5/8" 36# C-45 cmtd at 3166' (TOC 743'). Top cmt job 80'-surface. WSO 3160'.
- 5-3/4" 22.5# C-45 liner 3133'-3786', prepacked to 7" O.D. with 6-8 gravel.
- Perfs: 0.080" (16-6-2) 3165'-3363' and 3433'-3786'.
- Plugs: None

The total depth is: 3787 feet. The effective depth is: 3786 feet.

Present completion zone(s): Tar, Ranger, Main (Name) Anticipated completion zone(s): Tar, Ranger, Main (Name)

Present zone pressure: ~1100 psi. Anticipated/existing new zone pressure: ~1100 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.)

Acid Stimulation

Install BOPE. Pull tubing and packer. Acid cup-wash 5-3/4" liner slots.

Redress 8-5/8" packer. Test/scan in with 2-7/8" tubing. Set packer at ~3081' (as before) with tail/bell collar at ~3143'.

Pressure test casing, notifying DOG to witness. If not witnessed, chart pressure test.

Return to injection.

Run injection survey within 90 days..

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 Breca Canon Oil Co., Inc.			
Address 23903 S. Normandie Ave.		City/State Harbor City, CA	Zip Code 90710
Name of Person Filing Notice Rey Javier	Telephone Number: 310 326 4002	Signature <i>Rey Javier</i>	Date 8/31/10
Individual to contact for technical questions: Stan Brown	Telephone Number: 805 701 6051	E-Mail Address: sbrown@breacanon.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.

MECHANICAL DIAGRAM

Brea Canon Oil Co., Inc.

Well: STU AC-21

API#: 037-16938
30-4S-13W

8/31/10

STATUS: Injection KB: 11.25'

TD: 3787' ED: 3786'

CASING RECORD:

Size	Wt/Grade	Top	Shoe	TOC		TOC method
14"		0'	41'	0'		
8-5/8"	36# C-45	0'	3166'	743'	top job 80'	Calc
5-3/4"	22.5# C-45	3133'	3786'	gravel preppacked with 8-12 gravel		

PLUGS:

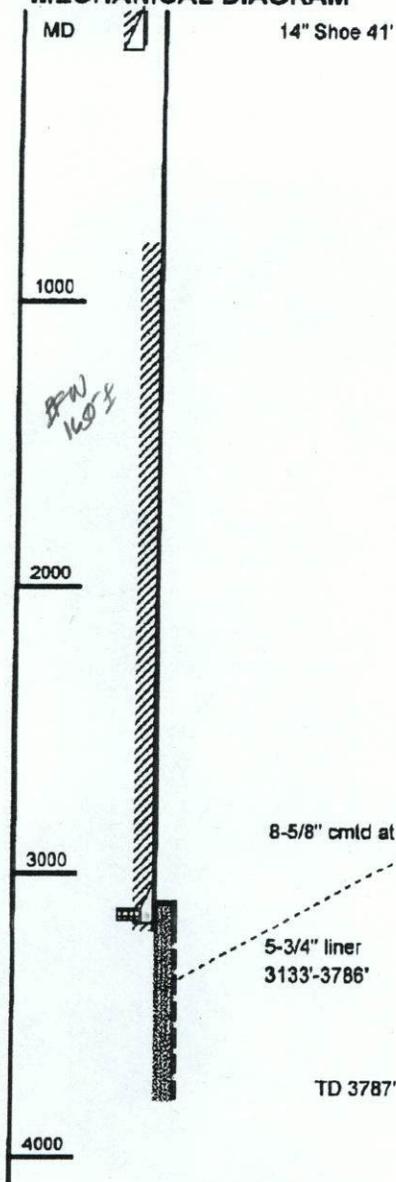
Top	Bot	Date of Plug

WSO:

Casing	Depth
8-5/8"	3160'

PERFORATIONS:

Casing	Top	Bottom	Length	Type
Original Perfs:				
5-3/4"	3165	3363	198	80M(16-6-2)
5-3/4"	3433	3786	353	80M(16-6-2)



CHECK LIST – RECORDS RECEIVED AND WELL STATUS

Company:	Brea Canon	Well: "South Torrance Unit" AC-21
API#:	037-16938	Sec. 30 , T. 4S , R. 13W . S. B. B. & M.
County:	Los Angeles	Field: Torrance

RECORDS RECEIVED	DATE	STATUS	
Well Summary (Form OG100)	7/25/06	Producing <input type="checkbox"/>	Drilling <input type="checkbox"/>
History (Form OG103)		Abandoned <input type="checkbox"/>	Idle <input type="checkbox"/>
Core Record (Form OG101)		Reabandoned <input type="checkbox"/>	Other <input checked="" type="checkbox"/>
Directional Survey			
Sidewall Samples			
Date final records received.			
Electric Logs:			
Other:			

WELL TYPE	
Oil <input type="checkbox"/>	Waterflood <input checked="" type="checkbox"/>
Gas <input type="checkbox"/>	Water Disposal <input type="checkbox"/>
Water Source <input type="checkbox"/>	Cyclic Steam <input type="checkbox"/>
Observation <input type="checkbox"/>	Steam Flood <input type="checkbox"/>
Exploratory <input type="checkbox"/>	Fire Flood <input type="checkbox"/>
Dry Hole <input type="checkbox"/>	Other <input type="checkbox"/>

EFFECTIVE DATE: 8/3/05
 REMARKS: Rework (conv. to inj)

ENGINEERS CHECK LIST	CLERICAL CHECK LIST
<input checked="" type="checkbox"/> Summary, History & Core Record (Dupl.)	Location change
<input type="checkbox"/> Electric Log	Elevation change
<input checked="" type="checkbox"/> Operator's Name	Form OGD121
<input checked="" type="checkbox"/> Signature	Form OGD150b (Release of Bond)
<input checked="" type="checkbox"/> Well Designation	Duplicate logs to archives
<input type="checkbox"/> Location	Notice of Records Due
<input type="checkbox"/> Elevation	EDP 2-9-07 um
<input checked="" type="checkbox"/> Notices	District Date Base
<input checked="" type="checkbox"/> "T" Reports <i>press test OK MS.</i>	Final Letter (OG159)
<input type="checkbox"/> Casing Record	Update Center 2-9-07 um
<input type="checkbox"/> Plugs	
<input type="checkbox"/> Directional Survey	
<input type="checkbox"/> Production/Injection (FAP Codes: 20)	
<input type="checkbox"/> E Well on Prod., enter EDP	
<input type="checkbox"/> Surface Inspection Required	FIELD CHECK LIST
<input type="checkbox"/> Surface inspection Waived (Island)	Date Surface Inspection Completed:
<input type="checkbox"/> Well site restoration deferred (common cellar)	Other:
<input type="checkbox"/> Final Letter Required AB: <input type="checkbox"/> REAB: <input type="checkbox"/>	
<input type="checkbox"/> Other:	

RECORDS NOT APPROVED	RECORDS APPROVED
(Reason:)	(Signature) <i>[Signature]</i>
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

Route to:
 1) mapping
 2) update

#126 1-26-07 WC

F

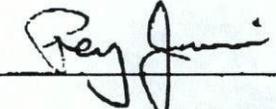
SUBMIT IN DUPLICATE

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

HISTORY OF OIL OR GAS WELL

Operator Brea Canon Oil Co, Inc. Field Torrance County Los Angeles
Well South Torrance Unit AC-21, Sec 30, T 4S, R 13W, SB B.&M.
A.P.I. No. 037-16938 Name Rey Javier Title Vice President
(Person submitting report) (President, Secretary or Agent)

Date 7/25/06

Signature 

23903 S. Normandie Ave, Harbor City, CA 90710
(Address)

(310) 326-4002
(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.

Convert to Waterflood

Date
2005
7/28
to
8/3

MIRU production rig. Pulled rods, pump and tubing. Removed 7" casing riser. Ran 8-5/8" 32# positive scraper to liner top at 3133'. Installed new 8-5/8" 36# casing riser. Installed BOPE. RIH with tubing and tagged fill at 3762'. With tubing at 3160', 3360', 3560' and 3700' spotted and displaced 1700 gals 15% HCl. Displaced with 150 bbls injection water at 300 psi. MU Husky M-1 packer and 1-jt tubing tail. Tested in with tubing. Set packer at 3085', bottom of tail at 3116'. Pressure tested casing to 310 psi. Commenced injection.

	<u>BWIPM</u>	<u>PSI</u>
Aug-05	26,475	1080
Sep-05	31,385	1280
Oct-05	35848	1020

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

No. P 105-0275

PERMIT TO CONDUCT WELL OPERATIONS

WATERFLOOD PROJECT

782
(Field Code)

06
(Area Code)

20
(New Pool Code)

30
(Old Pool Code)

Rey Javier, Agent
BREA CANON OIL CO.
23903 S. NORMANDIE AVE
HARBOR CITY, CA 90710

Cypress, California
May 11, 2005

Your proposal to rework (convert to waterflood) well "South Torrance Unit" AC-21, A.P.I. No. 037-16938, Section 30, T. 4S, R. 13W, S.B. B. & M., Torrance Field, Onshore area, Tar, Ranger and Main pools, Los Angeles County, dated 4/28/2005, received 4/29/2005 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment with hydraulic controls, equivalent to this Division's Class II2M requirements, or better, shall be installed and maintained in operating condition.
2. Well killing fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Within three months after injection is started, and every two years thereafter, this Division shall be furnished with sufficient data to confirm the confinement of the injected fluid to the intended zone of injection and to demonstrate the mechanical integrity of the 8 5/8" casing, injection tubing and packer.
4. Prior to any sustained injection above a gradient of 0.9 psi per foot of depth as measured at the sand face, injectivity and profile tests shall be made. The results of these tests and the proposed method of operations as to input rate, pressure and water distribution by subzones shall be submitted to this Division for approval.
5. A pressure test is conducted to demonstrate the mechanical integrity of the 8 5/8" casing.
6. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
7. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
 - b. Witness a pressure test of the 8 5/8" casing prior to injection.
 - c. Witness the running of an injection survey.

(Continued on Page 2)

CM:cm

cc: Update
EDP

BLANKET BOND

Project Code: M12

Engineer: Chris McCullough

Phone: 714/816-6847

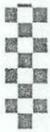
Hal Bopp
State Oil and Gas Supervisor

By [Signature]
For R. K. Baker, 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.

NOTE:

1. This well shall conform to the provisions set forth in our letter dated **January 24, 1969**, and revisions through **July 31, 1997**, approving the project.
2. A monthly injection report shall be filed with this Division listing the amount of fluid injected, pressure required, and source of injection fluid.
3. An analysis of the fluid being injected and/or the formation fluid shall be submitted on request.
4. The base of the freshwater sands is at **1650' ±**. The fresh water is protected by the **8 5/8"** casing cemented at **3166'** with sufficient cement to fill to **1265'**.



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

OG/cm

NOTICE OF INTENTION TO REWORK / REDRILL WELL

105-0275

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	
88 m	9/14/05 9/11/05	—

This notice and an indemnity or cash bond must be filed, and approval given, before 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 South Torrance Unit AC-21, API No. 037-16938
(Well designation)

Sec. 30, T. 4S, R. 13W, S.B. B & M., Torrance Field,
Los Angeles County.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:
 8-5/8" 32# cmtd at 3166'
 5-3/4" 22.5# 3133'-3786' (landed)
 80M slots 3165'-3363', 3433'-3786'

2. The total depth is: 3786 feet. The effective depth is: 3786 feet.

3. Present completion zone (s): Tar, Ranger & Main. Anticipated completion zone (s): Same
(Name) (Name)

4. Present zone pressure: 1000 +/- psi. Anticipated/existing new zone pressure: 1000 +/- psi.

5. Last produced: (Current) 3 20
(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

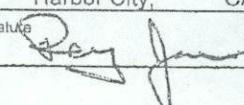
The proposed work is as follows: (A complete program is preferred and may be attached.)

Convert to Injection

- Install BOPE
- Remove production equipment
- Cleanout as required
- Run 2-7/8" tubing with packer, set packer at ~3100'. Pressure test casing to 250 psi.
- Begin injection
- Run injection survey within 90 days.

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 <u>Brea Canon Oil Co.</u>	Telephone Number <u>310 326 4002</u>
Address <u>23903 S. Normandie Ave.</u>	City <u>Harbor City</u> , CA Zip Code <u>90710</u>
Name of Person Filing Notice <u>Rey Javier, Vice President</u>	Signature  Date <u>4/28/05</u>

File In Duplicate

"South Torrance Unit" AC-21
037-16938

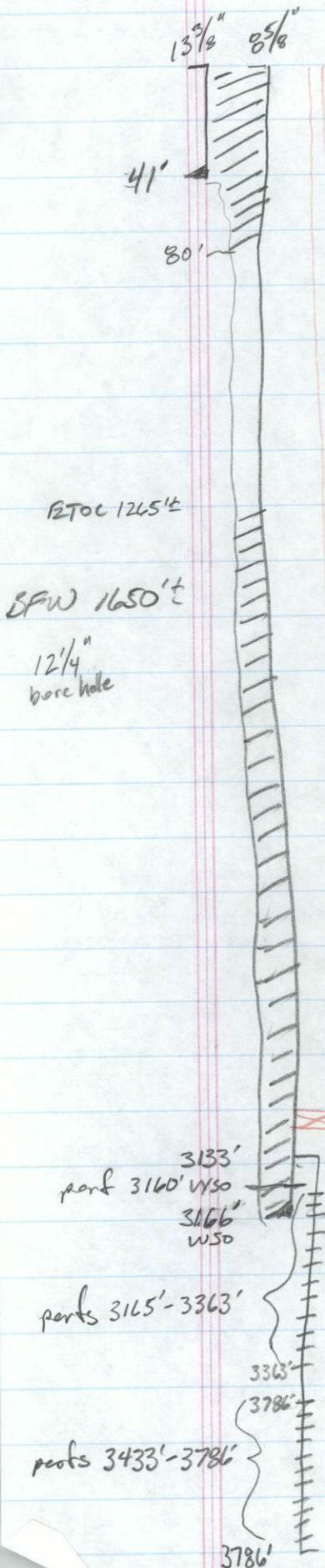
TAR, Ranger, Main, South
cov to Inj

Grad. 0.9

Proj: M 12

Intital Approv. 1/24/69

Revised 7/31/97



Proposed floor @ 3100'

3133'
perf 3160' W/SO
3166'
W/SO

perfs 3165'-3363'

3363'
3386'

perfs 3433'-3786'

3786'

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

REPORT OF CORRECTION OR CANCELLATION

Long Beach, California

John S. Duhon
BREA CANON OIL COMPANY
23903 S. Normandie Avenue
Harbor City, CA 90710

June 15, 1994

In accordance with Well Status Inquiry received 06-13-94

the following change pertaining to your well "South Torrance Unit" C-21-R (037-16938),
(Well designation)
Torrance field, Los Angeles County,

Sec. 30, T. 4S, R. 13W, S.B. B. & M., is being made in our records:

The corrected location is _____

The corrected elevation is _____

Report No. _____, dated _____, has been corrected as follows: _____

Name returned to "South Torrance Unit" AC-21

Your notice to redrill dated 10-15-92,
(Drill, abandon, etc.)
and our report No. P 192-1067, issued in answer thereto, are hereby cancelled inasmuch as the work will not be done. If you have an individual bond on file covering this notice, it will be returned. No request for such return is necessary.

Other: _____

DEC:sds

cc: EDP
Update

William F. Guerard, Jr.
State Oil and Gas Supervisor

By *[Signature]*
For R. K. Baker, Deputy Supervisor

CANCELLATION/ CORRECTION made	Date/initial
Form 121	6-15-94 mb
Form 127	—
Form 140	—
WELL REPORT	6-15-94
RECORDS: log file	—
EDP	ok
BOND	—
FIELD MAP	—
MAP BOOK	—

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
WELL STATUS INQUIRY

Long Beach, California

May 31, 1994

RECEIVED

JUN 02 1994

BREA CAÑON OIL CO.

John S. Duhon, Agent
BREA CANON OIL CO.
23903 S. Normandie
HARBOR CITY CA 90710

In a notice dated 10-15-92, you propose to **redrill** well "South Torrance Unit" C-21-R, API No. 037-16938, Sec. 30, T. 4S, R. 13W, S.B. B. & M., Torrance Field, Los Angeles County.

Please indicate below, conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
For R. K. Baker, Deputy Supervisor

DEC:gah

___ PROPOSED WORK HAS BEEN DONE. (If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed. *)

___ PROPOSED WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT _____, 19____.

___ PROPOSED WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.**

___ SUPPLEMENTARY NOTICE (Form OG123) ATTACHED.

___ PLEASE CONSIDER THIS FORM AS A SUPPLEMENTARY NOTICE.

___ WE DO NOT INTEND TO DO THIS PROPOSED WORK. Please cancel our notice to Redrill STU C-21-R, dated 10-15, 1992.

___ OTHER: _____

John S. Duhon
(Signature)
John S. Duhon - OP. Manager.
(Name and Title)

* Division 3 of the Public Resources Code states in part:
Section 3215,...Well records shall be filed 60 days after completion or suspension of proposed work.

** Section 3203,...If operations have not commenced within one year of receipt of the notice, the notice will be considered cancelled. (To prevent cancelation, file a Supplementary Notice with the division.)

RECEIVED

94 JUN 13 PM 2:44

DIVISION OF OIL & GAS
LONG BEACH, CA

Handwritten signature

Handwritten signature

OTHER

10-12 85

Handwritten notes

Handwritten notes

Handwritten signature

Handwritten notes

RECEIVED

JUN 13 1994

RECEIVED

REGISTRATION DIVISION

DIVISION OF OIL & GAS AND GEOLOGICAL RESOURCES
DEPARTMENT OF CONSERVATION
THE REGISTRATION AGENCY OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach _____, California

October 20, 1992 _____

BREA CANON OIL COMPANY

John S. Duhon

23903 S. Normandie

Harbor City, CA 90710

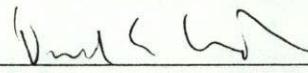
Your request, dated October 15, 1992 _____, proposing to change the designation of well(s) in Sec. 30, T. 4S, R. 13W, S.B. B. & M., Torrance field, Los Angeles County, District No. 1, has been received.

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

Well "South Torrance Unit" AC-21 will hereafter be called "South Torrance Unit" C-21-R (037-16938).

DEC:sds

William F. Guerard, **State Oil and Gas Supervisor**

By 
For R. K. Baker, *Deputy Supervisor*

RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL AND GAS
**NOTICE OF INTENTION TO
 REWORK WELL**

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL
BB	OGD114	OGD121	FILE
	10/26/92	10/20/92	

This notice and an indemnity or cash bond must be filed, and approval given, before rework 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 cancelled.

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well South Torrance Unit - AC - 21 (Well designation), API No. 037 - 16938
 Sec. 30, T. 45, R. 13W, SB B.&M., Torrance Field Field,
Los Angeles County.

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

Please see attached.

2. The total depth is: 3776 feet. The effective depth is: 3776 feet.

3. Present completion zone (s): Tar-Ranger-Main (Name); Anticipated completion zone (s): Main (Name)

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

5. Last produced: 9/92 (Date) 4 (Oil, B/D) 31 (Water, B/D) -- (Gas, Mcl/D)

Last injected: _____ (Date) _____ (Water, B/D) _____ (Gas, Mcl/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.)

Please See Attached.

**Note: Well designated to be changed to C-21-R.

CANCELLED 6/15/94
 Date

Note: If the well is to be redrilled, show the proposed bottom-hole coordinates and estimated true vertical depth. The Division must be notified if changes to this plan become necessary.

Name of Operator <u>Brea Canon Oil Company</u>	Telephone Number <u>(310) 326-4002</u>
Address <u>23903 South Normandie</u>	City <u>Harbor City</u> Zip Code <u>90710</u>
Name of Person Filing Notice <u>John S. Duhon</u>	Signature <u>John S. Duhon</u> Date <u>10/15/92</u>

File In Duplicate

CRITICAL WELL

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 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.

Exceptions or additions to this definition may be established by the State Oil and Gas Supervisor upon his own judgment or upon written request of an operator. The written request must contain justification for such an exception.

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.

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92 OCT 19 PM 1:31
DIVISION OF OIL & GAS
LONG BEACH, CA

BREA CANON OIL CO.

Rework Program
Redrill and Run New Liner
South Torrance Unit C-21R (Old AC-21)

(Note: All measurements corrected to mat.) \'

Casing: 18" conductor cemented @ 30'.
8-5/8" 32# J-55 cemented @ 3155', WSO @ 3149'
5-3/4" 22.5# J-55 liner landed at 3776' w/top @ 3122',
gravel prepacked to 7' OD and perforated w/slots
0.080" x 2", 16R, 6"C, 3154'-3352' and 3422'-3775'.
Bad spot in liner @ 3155', squeezed w/ epoxy 3/84.
Total depth 3776'.

Program:

1. MIRU well service rig. Pull rods, and pump and clean well to bottom.
2. POH with tubing, RIH with 8-5/8" casing scraper on tubing to top of liner at 3122'.
3. POH, laying down tubing. Rig down well service rig.
4. MIRU drilling rig. Install Class III B2M BPOE. Pick up 3-1/2" drill pipe and circulate hole clean to 3200'.
5. Cut the 5-3/4" liner at 3155'.
6. Recover the hanger and liner to 3155'. Displace well fluid with a clay base mud having the following characteristics: 72 PCF, 40-45 sec/qt. viscosity, 6-8 ml. water loss, 5% or less solids content and 1% or less sand content.
7. Mill the 5-3/4" liner from 3155' to 3185'.
8. Ream out the open hole to 11 inches.
9. Place neat cement plug from as deep as possible to 3135'.
10. Test operation of BOPE, DOG to witness. Test casing to 500 psi.
11. Clean out cement to the shoe of the 8-5/8" casing with a 7-5/8" bit and drill a 7-5/8" hole to 3850'. Subsurface coordinates at 3850' to be approximately 240' north and 140' west of the surface location of the well.
12. Change over to a KCl-Driscose-NaCl mud having the following characteristics: 72 PCF, 50-60 sec./qt. viscosity, 4 ml. or less water loss, 1%-3% solids content and trace sand content.

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DIVISION OF OIL & GAS
LONG BEACH, CA

13. Under ream the hole to 14" diameter from 3850' to 3590'.
14. Run 736' of 5-1/2" 17# liner to 3840' as follows (all depths approximate):
 - a. 3840'-3839' Bullnose shoe
 - b. 3839'-3590' Perforated 60M slots, 16 rows, 2" slots, 6" centers
 - c. 3590'-3580' Blank casing
 - d. 3580'-3578' Gravel port collar
 - e. 3578'-3122' Blank casing
 - f. 3122'-3120' Liner hanger and seal
15. Gravel pack the perforated interval with 282 cubic feet of 8-12 gravel (20% excess of theoretical).
16. Clean out excess gravel and change over to produced lease water.
17. Spot 20 gallons "Polyclean" and 20 gallons "Holeclean" mixed with 20 barrels lease water opposite perforations and let soak for a minimum of 12 hours before proceeding.
18. Run production tubing to total depth and circulate well clean.
19. Raise tubing to 3700', run pump and rods and return to production.
20. Rig down, move off and clean up well site.

JJM/wp2

FORM DEVOLVED BY
CALIFORNIA STATE
25 OCT 19 11 15 AM '55
RECEIVED

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DIVISION OF OIL & GAS
LONG BEACH, CA

[Faint, illegible text, likely bleed-through from the reverse side of the page]

DIVISION OF OIL AND GAS
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Mobil Oil Corp. Well No. "South Torrance Unit" AC-21
 API No. 037-16938 Sec. 30, T. 43, R. 13W, S.B. B.&M.
 County Los Angeles Field Torrance

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OG100)	_____	Producing - Oil	Water Disposal
History (Form OG103)	_____	Idle - Oil	Water Flood
Core Record (Form OG101)	_____	Abandoned - Oil	Steam Flood
Directional Survey	_____	Drilling - Idle	Fire Flood
Sidewall Samples	_____	Abandoned - Dry Hole	Air Injection
Other	_____	Producing - Gas	Gas Injection
Date final records received	_____	Idle - Gas	CO ₂ Injection
Electric logs:		Abandoned - Gas	LPG Injection
<u>Casing Profile Caliper Log</u>	<u>2-27-84(2)</u>	Gas-Open to Oil Zone	Observation
<u>Casing Minimum I.D. Caliper</u>	<u>2-27-84(2)</u>	Water Flood Source	_____
<u>Casing Profile Caliper</u>	<u>2-27-84(2)</u>	DATE	_____
<u>Casing Minimum I.D. Caliper</u>	<u>2-27-84(2)</u>	RECOMPLETED	_____
		REMARKS	_____

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) _____
2. Electric Log _____
3. Operator's Name _____
4. Signature _____
5. Well Designation _____
6. Location _____
7. Elevation _____
8. Notices _____
9. "T" Reports _____
10. Casing Record _____
11. Plugs _____
12. Surface Inspection _____
13. Production _____
14. E Well on Prod. Dir. Sur. _____

CLERICAL CHECK LIST

1. Location change (F-OGD165) _____
2. Elevation change (F-OGD165) _____
3. Form OGD121 _____
4. Form OG159 (Final Letter) _____
5. Form OGD150b (Release of Bond) _____
6. Duplicate logs to archives _____
7. Notice of Records due(F-OGD170) _____

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED _____

RELEASE BOND _____
 Date Eligible _____
 (Use date last needed records were received.)
 MAP AND MAP BOOK _____

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

October 22, 1968

Mr. Mr. J. J. Oliphant, Agent
Mobil Oil Corporation
10737 S. Shoemaker Ave.
Santa Fe Springs, Calif. 90670

DEAR SIR:

Your request dated letter dated October 10, 1968, relative to change in designation of well(s) in Sec. 30, T. 4 S., R. 13 W., S.B. B. & M., Torrance field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

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

the proposed change in designation is hereby authorized as follows:

See attached list.

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

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

By _____
Deputy Supervisor

Old Designation

New Designation

Sec. 25:	"Poggi" 1	"South Torrance Unit" D-1	(037-16917)
	" 2	" 2	(037-16918)
	" 3	" AC-3	(037-16919)
	" 10	" D-10	(037-16927)
	" 11	" D-11	(037-16928)
	" 12	" D-12	(037-16929)
	" 16	" AC-16	(037-16933)
	" 17	" AC-17	(037-16934)
	" 26	" AC-26	(037-16941)
	" 31	" AC-31	(037-12946)
	" 32	" AC-32	(037-12947)
	" 35	" D-35	(037-16950)
	" 36	" D-36	(037-16951)
Sec. 30:	"Poggi" 4	"South Torrance Unit" D-4	(037-16920)
	" 5	" AC-5	(037-16921)
	" 6	" AC-6	(037-16922)
	" 7	" 7	(037-16923)
	" 8	" 8	(037-16924)
	" 8-A	" AC-8	(037-16925)
	" 9	" D-9	(037-16926)
	" 13	" D-13	(037-16930)
	" 14	" D-14	(037-16931)
	" 15	" D-15	(037-16932)
	" 18	" AC-18	(037-16935)
	" 19	" 19	(037-16936)
	" 20	" 20	(037-16937)
	" 21	" AC-21	(037-16938)
	" 24	" AC-24	(037-16939)
	" 25	" AC-25	(037-16940)
	" 27	" AC-27	(037-16942)
	" 28	" AC-28	(037-16943)
	" 29	" AC-29	(037-16944)
	" 30	" AC-30	(037-16945)
	" 33	" D-33	(037-16948)
	" 34	" AD-34	(037-16949)
	" 37	" D-37	(037-16952)

SOCONY MOBIL OIL CO., INC.

All wells of GENERAL PETROLEUM CORPORATION transferred to ~~MOBIL OIL COMPANY~~,
effective 1-1-60. Change in operating name only. See letter in Ownership file
from General Petroleum Corp. dated November 16, 1959.

11

SUBMIT LOG IN DUPLICATE

FILL THE BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAGE ONLY

DIVISION OF OIL AND GAS RECEIVED

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

JUL 21 1953

WELL SUMMARY REPORT

LOS ANGELES, CALIFORNIA

Operator GENERAL PETROLEUM CORPORATION Field TORRANCE

Well No. POGGI #21 Sec. 30, T. 4S, R. 13W, S.B. B. & M.
960.82' E'ly along C/L Lomita Blvd. Elevation above sea level 40.97' K.B. feet.
Location fr. C/L Vermont Ave. thence 536.77' N'ly at right angles. All depth measurements taken from top of K.B., which is 11.25' 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 March 13, 1953 Signed H.F. Power C.L. Doyle A.W. Titus General Agent
(Engineer or Geologist) (Superintendent) (President, Secretary or Agent)

Commenced drilling July 3, 1952 Completed drilling July 24, 1952 Drilling tools Cable Rotary
Total depth 3787' Plugged depth No Plugs GEOLOGICAL MARKERS DEPTH
Junk None

Commenced producing July 27, 1952 Pumping (date) Flowing/gas lift/pumping (cross out unnecessary words)

Table with 6 columns: Clean Oil bbl. per day, Gravity Clean Oil, Per Cent Water including emulsion, Gas Mcf. per day, Tubing Pressure, Casing Pressure. Rows for Initial production and Production after 30 days.

CASING RECORD (Present Hole)

Table with 10 columns: Size of Casing (A. P. I.), Depth of Shoe, Top of Casing, Weight of Casing, New or Second Hand, Seamless or Lapweld, Grade of Casing, Size of Hole Drilled, Number of Sacks of Cement, Depth of Cementing if through perforations.

PERFORATIONS

Table with 7 columns: Size of Casing, From, To, Size of Perforations, Number of Rows, Distance Between Centers, Method of Perforations.

Electrical Log Depths 200'/3767' (Attach Copy of Log)

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
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DIVISION OF OIL AND GAS

JUL 21 1953

History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

OPERATOR GENERAL PETROLEUM CORP. FIELD TORRANCE

Well No. POGGI #21, Sec. 30, T. 4S, R. 13W, S.B.B. & M.

Form 100 @ L Doyle
Signed H.F. Power

Date March 13, 1953 Title General Agent

(President, Secretary or Agent)

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

Date

1952

This well was drilled by a company crew, using portable rotary drilling equipment. All measurements in this report were taken from the top of the kelly bushings, 11.25' above the concrete mat.

DRILLING A TAR, RANGER AND MAIN ZONE WELL

14" O.D. conductor pipe was set at 41' by a construction crew prior to moving in rotary equipment.

DRILLING TO 3190'

7/3
to
7/15

Rotary drilling equipment was moved in and rigged up and a 12-1/4" hole was spudded on July 3, 1952. 12-1/4" hole was drilled to 1860' where the hole was vertically deviated to total depth.

12-1/4" hole was drilled to 3190'. A Halliburton electrical log was run 200'/3190'.

FISHING AND RECOVERING 8-5/8" CASING

7/15
to
7/19

While attempting to run 8-5/8" casing, the threads pulled out of the collar of the 91st. joint. As the casing dropped, it was caught by the slips, but it parted in several sections further down the hole. All sections were recovered after 5 days of fishing.

CEMENTING 8-5/8" CASING AT 3166'

7/20

3171' of 8-5/8" O.D., S.H., 36#, lapweld and C-45, 8 and 10-V thread, casing with a "down-whirler" cement shoe on bottom and a cast iron baffle ring at 3128' was cemented at 3166' with 700 sax of Victor construction cement. (First 500 sax mixed with 2% gel.) (Slurry weight 112#-128#, all mixed with lime water, mixing time 30 minutes, displacing time 32 minutes. Two top plugs were used which did not bump the baffle ring after displacing with 1046 cu.ft. of mud. Final pressure was 1200 p.s.i. Completed at 4:20 A.M. by B-J Services Inc.)

9

DIVISION OF OIL AND GAS

JUL 21 1953

LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR GENERAL PETROLEUM CORP. FIELD TORRANCE
Well No. POGGI #21, Sec. 30, T. 4S, R. 13W, S.B.B. & M.
Signed H.F. Power *Form 100 C.L. Doyle*
Date March 13, 1953 Title General Agent
(President, Secretary or Agent)

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

Date

1952

The 8-5/8" casing was made up as follows, top to bottom:

<u>AMOUNT</u>	<u>DESCRIPTION</u>
2555.03'	8-5/8" S.H., L.W., 10-V thread casing on top, then,
2.27'	Crossover joint, 10-V to 8-V thread,
613.67'	8-5/8", S.H., C-45, 8-V thread w/cement shoe on bottom.
<u>3170.97'</u>	
<u>4.97'</u>	Above Kelly Bushing
<u>3166'</u>	TOTAL 8-5/8" CASING

7/21

With 1" pipe hanging outside the 8-5/8" casing at 80', approximately 100 sax of Victor construction cement was pumped in bringing cement to the surface. The 8-5/8" casing was landed in the cellar with casing head 16' below the kelly bushings and blow-out-prevention equipment installed. After 16 hours, plugs and cement were cleaned out 3109'/3150' and the 8-5/8" casing was pressure tested with 1000 p.s.i. for 15 minutes with no loss in pressure. Cement was then cleaned out to 3162'.

TESTING W.S.O. ON 4 - 1/2" HOLES IN THE 8-5/8" CASING AT 3160'

7/21
to
7/22

A Johnston combination casing tester and gun perforator was run on dry 4-1/2" O.D. drill pipe including a 3/8" tool bean, 20' of perforated tail pipe, and 2 B-H-P bombs and a 4 shot gun perforator on bottom. The 8-5/8" casing was gun perforated with 4 - 1/2" holes at 3160'. The packer was set at 3130' with the perforated tail pipe extending to 3150' and the valve opened at 6:27 A.M. for a 1 hour test. There was one light puff and no blow for the remainder of the test. When the drill pipe was pulled, there was a recovery of 20' of medium cement cut drilling fluid. The B-H-P charts showed the valve open for 1 hour at 0 p.s.i. The test was witnessed and approved by the D.O.G. on July 21, 1952 as indicating a satisfactory W.S.O. on the 8-5/8" casing through 4 - 1/2" holes at 3160'.

Cement was then cleaned out 3162'/3190'.

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR GENERAL PETROLEUM CORP. FIELD TORRANCE

Well No. POGGI #21, Sec. 30, T. 4S, R. 13W S.B.B. & M.

Signed H.F. Power *Form 100 C L Doyle*

Date March 13, 1953 Title General Agent

(President, Secretary or Agent)

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

Date

1952

DRILLING 3190'/3787'

7/23
to
7/25

7-5/8" hole was drilled 3190'/3780'. A Halliburton electrical log was run 3166'/3767'. The mud in the hole was replaced with O.W. gel and 7-5/8" hole drilled 3780'/3787'. The 12-1/4" hole was opened to 14" 3166'/3190' and 7-5/8" hole opened to 9" 3190'/3787'.

LANDING 5-3/4" LINER AT 3786'

7/26

653.08' of 5-3/4" O.D., 22.5#, S.H., C-45, 10-V thread, A.P.I. range 2, casing, gravel wrapped to 7" O.D. with U.S. 6-8 gravel was landed as liner at 3786', made up as follows, top to bottom:

<u>PERFORATED INTERVAL</u>	<u>AMOUNT</u>	<u>ITEM</u>
	2.80'	Circulating type lead seal hanger, on top then,
	29.00'	Blank 5-3/4" casing
3165'/3363'	197.79'	Perforated with 16 rows, 0.080" x 2" straight slots on 6" centers, gravel wrapped to 7" O.D. with U.S. 6-8 gravel and covered with 14 gauge steel plate w/3/32" holes on 5/32" centers.
	70.33'	Blank 5-3/4" casing
3433'/3786'	353.16'	Perforated casing as above w/ bull plug shoe w/steel baffle on bottom.
	<u>653.08'</u>	<u>TOTAL 5-3/4" LINER</u>

BOTTOM OF LINER: 3786'

TOP OF LINER: 3133'

COMPLETING:

7/26

2-7/8" O.D. tubing was run to 3749'. The O.W. gel mud in the hole was displaced with 295 barrels of lease crude oil. A pump and rods were run and the rotary

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR GENERAL PETROLEUM CORP. FIELD TORRANCE
Well No. POGGI #21, Sec. 30, T. 4S, R. 13W S.B. & M.
Signed H.F. Power *Form 100 C. Doyle*
Date March 13, 1953 Title General Agent
(President, Secretary or Agent)

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

Date

1952

drilling equipment moved out. Production equipment was installed and the well was completed pumping on July 27, 1952, and produced as follows:

DAILY PRODUCTION

	<u>NET BARRELS</u>	<u>GRAVITY</u>	<u>% CUT</u>	<u>REMARKS</u>
7/27				50 barrels circulating oil
7/28				155 barrels circulating oil
7/29				70 barrels circulating oil
7/30	46	15.8°	24	Plus 20 barrels circulating oil
7/31	65	15.7°	23	
8/1	58	16.1°	23	
8/2	51/20 hrs.		21	Off 4 hrs. to change pump
8/3	58	16.1°	20	
8/4	61	16.1°	16	

MONTHLY PRODUCTION

	<u>NET BARRELS</u>	<u>GRAVITY</u>	<u>% CUT</u>	<u>DAYS PRODUCED</u>	<u>DAILY AVERAGE</u>
Aug.	1556	15.8°	16	31	50 B/D
Sept.	1231	15.8°	15	30	41 B/D
Oct.	1199	15.8°	15	31	39 B/D

PRESENT CONDITION OF WELL

CASING RECORD:

14" casing cemented at 41'
8-5/8" casing cemented at 3166', W.S.O. on 4 - 1/2" holes at 3160'
653' of 5-3/4" liner landed at 3786' including 80 M perforations 3165'/3363', 3433'/3786', gravel wrapped to 7" O.D. Top of liner at 3133'.

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR GENERAL PETROLEUM CORP. FIELD TORRANCE

Well No. POGGI #21, Sec. 30, T. 4S, R. 13W, S.B. & M.

Signed H.F. Power *Form 100 C.L. Doyle*

Date March 13, 1953 Title General Agent

(President, Secretary or Agent)

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

Date

1952

TOTAL DEPTH: 3787'

PLUGGED DEPTH: No Plugs

JUNK: None

HOLE SIZE SUMMARY:

12-1/4" - Surface to 3166'
14" - 3166' to 3190'
9" - 3190' to 3787'

ZONES OPEN TO PRODUCTION:

TAR, RANGER & MAIN

P.E. PATTERSON

5

COMPANY

GENERAL PETROLEUM CORP.

LEASE

POGGI

WELL NO. 21

ELEVATION

40.97' K.B.

LOCATION:

960.82' E'ly along C/L Lomita Blvd.
from C/L Vermont Ave. & 536.77' N'ly
at right angles, Los Angeles County.

DIVISION OF OIL AND GAS
RECEIVED

SPUDDED

July 3, 1952

COMPLETED

July 27, 1952

JUL 21 1953

TOP	BOTTOM	REC'Y	FORMATION	LOS ANGELES, CALIFORNIA
Surface	655		Sand and shale.	
655	1239		Sand, shale and gravel.	
1239	2587		Sand and shale.	
2587	2850		Sand and shale with hard streaks.	
2850	3150		Sand and shale.	
3150	3190		Shale.	
3190	3787		Sand and shale.	
			TOTAL DEPTH: 3787'	

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STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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

No. T. 152-856

Los Angeles 15

Calif.

July 24 19 52

Mr. Henry F Power
Los Angeles 17

XXXX

Calif.

Agent for GENERAL PETROLEUM CORPORATION

DEAR SIR:

Your well No. "Poggi" 21, Sec 30, T. 4 S, R. 13 W, S B B & M.
Torrance Field, in Los Angeles County, was tested for water shut-off
on July 21, 19 52. Mr. J. F. Matthews, Inspector, designated by the supervisor,
was present as prescribed in Secs. 3222 and 3223, Ch. 93, Stat. 1939; there were also present
G. Varnum, Engineer; P. Patterson, Engineer.

Shut-off data: 8-5/8 in. 36 lb. casing was cemented XXXX at 3166 ft.
on July 20, 19 52 in 12-1/4 in. hole with 700 sacks of cement
of which 17 sacks was left in casing.

Casing record of well: 13-3/8" cem. 30'; 8-5/8" cem. 3166', four 1/2" test holes 3160', W.S.O.

Present depth 3190 ft. Bridged with cement from 3166 ft. to 3162 ft. Cleaned out to 3162 ft. for test.
A pressure of 1000 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 3150 ft.
A Johnston gun and tester was run into the hole on 4-1/2 in. drill pipe ~~subing~~
with XXXX ft. of water-mud cushion, and packer set at 3130 ft. with tailpiece to 3150 ft.
Tester valve, with 3/8 in. bean, was opened at 6:27 a.m. and remained
open for 1 hr. and xxx min. During this interval there was a light puff, and no blow
thereafter.

THE INSPECTOR ARRIVED AT THE WELL AT 7:25 A.M. AND MR. VARNUM REPORTED:

1. A 12-1/4" rotary hole was drilled from 30' to 3175'; a 7-5/8" rotary hole, 3175'-3190'.
2. Electrical log readings showed the D-2 marker at 3160'.
3. The 8-5/8" casing was shot-perforated with four 1/2" holes at 3160'.

THE INSPECTOR NOTED:

1. When the drill pipe was removed, 20' of medium, cement-cut, drilling fluid was found in the drill pipe above the tester, equivalent to 0.3 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hr.

The test was completed at 9:00 a.m.

THE 8-5/8" SHUT-OFF AT 3160' IS APPROVED.

JFM:OH

cc Long Beach

Orig. & 4 cc Mr C L Doyle
General Petroleum Corporation
P O Box 2122 Terminal Annex
LOS ANGELES 54

R. D. BUSH, State Oil and Gas Supervisor

By E. H. Messer, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P 152-835

Los Angeles 15 Calif. July 7 19 52

Mr. Henry F Power
612 South Flower Street
LOS ANGELES 15 Calif.

121

Agent for GENERAL PETROLEUM CORPORATION

DEAR SIR:

Your _____ proposal to drill Well No. "Poggi" 21,
Section 30, T. 4 S, R. 13 W, S. B B. & M., Torrance Field, Los Angeles County,
dated June 30 19 52, received July 2 19 52, has been examined in conjunction with records filed in this office.

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

THE NOTICE STATES

"The well is 961' N^{ly} alg. C/L Lomita Blvd. fr. C/L Vermont Ave. th. 537' ^{N^{ly}} at 90°. Elevation of ground above sea level 34 feet. All depth measurements taken from top of kelley bushing, which is 45' K.B. (est.) We estimate that the first productive oil or gas sand should be encountered at a depth of about _____ feet."

PROPOSAL

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

Size of Casing	Weight	Grade and Type	Depth	Landed or Cemented
8-5/8"	36#	Lapweld & C-45	3170'	cemented
660' of 5-3/4"	22.5#	C-45	3780'	landed

Well is to be drilled with rotary tools. It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Any hole to be sidetracked in any oil or gas zone shall be filled with cement, if possible.
2. The 8-5/8" casing shall be cemented through ports at the base of the fresh water sands with enough cement to reach the surface, or shall be cemented at the shoe with enough cement to fill back of the casing and reach to at least 100' above the base of the fresh water sands.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test of the effectiveness of the 8-5/8" shut-off.

JLW:OH

M/B

cc Long Beach

Orig. & 4 cc Mr C L Doyle

R. D. BUSH
State Oil and Gas Supervisor

General Petroleum Corp
P O Box 2122 Terminal Annes
LOS ANGELES 54

By E. H. Messer Deputy

Records Filed

100	✓
101	✓
103	✓

7-21-52 JLW

E. Log. _____

037-16938

D

FORM 105. CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS RECEIVED

JUL 2 1952

DIVISION OF OIL AND GAS

LOS ANGELES, CALIFORNIA

Notice of Intention to Drill New Well

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

Mobil Oil Corp.

Los Angeles, Calif. June 30, 19 52

DIVISION OF OIL AND GAS

Los Angeles, Calif.

"South Torrance Unit" AC-21

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. Poggi 21, Sec. 30, T. 4-S, JFM

R. 13-W, S. B.B. & M., Torrance Field, Los Angeles County.

Legal description of lease

The well is 961' E'ly alg. C/L Lomita Blvd. fr. C/L Vermont Ave. th. 537' N'ly @ 90°. feet N. or S., and feet E. or W. from (Give location in distance from section corners or other corners of legal subdivision)

Elevation of ground above sea level 34' feet.

All depth measurements taken from top of kelley bushing, which is 45' K. B. (est.)

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

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

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
8-5/8"	36#	Lapweld & C-45	3170'	cemented
660' of 5-3/4"	22.5#	C-45	3780'	landed

JLW
 MAP MAP BOOK CARDS BOND FORMS
 114 121
 EB Blanket EB EB

Well is to be drilled with rotary tools.

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

Address 612 South Flower St. Los Angeles, California

GENERAL PETROLEUM CORPORATION (Name of Operator)

Telephone number MA. 6-5711, Ext. 8492

By H. F. Power, General Agent

By: [Signature]

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

Dist: D. O. G, File, L. A. File, Power.