

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

**WELL SUMMARY REPORT**

API No. 04-037-27148-00

Operator <b>OXY USA INC.</b>		Well <b>DOM-002</b>			
Field (and Area, if applicable) <b>Dominguez</b>		County <b>Los Angeles</b>	Sec. <b>33</b>	T. <b>3S</b>	R. & B.&M. <b>13W S.B.</b>
Location of well (Give surface location from property or section corner, street center line) <b>Lambert Coordinates Zone 7 N 4 062 757.48 E 4 214 076.81</b>					Elevation of ground above sea level: <b>168.70'</b>
Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Lat: <b>33.863534</b> Long: <b>- 118.243132</b>					
Was the well directionally drilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, show coordinates (from surface location) and true vertical depth at total depth. <b>N 4 063 967.63 E 4 215 378.22 (TMD 13182' / TVD 12651')</b>					

Commenced workover (date) <b>August 26, 2014</b>	(Orig hole) <b>13182'</b>	Total depth	Depth measurements taken from top of: <input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input type="checkbox"/> Kelly Bushing		
Completed drilling (date) <b>October 02, 2014</b>	Present effective <b>13114'</b>		Which is <b>25.13'</b> feet above ground.		
Commenced production (date) <b>October 03, 2014</b>	Junk? Describe:  Work Done:  <b>Recompletion</b>		GEOLOGICAL MARKERS		DEPTH
Production mode: <input type="checkbox"/> Flowing <input type="checkbox"/> Producing <input type="checkbox"/> Injecting <input type="checkbox"/> Gas lift			<b>DIVISION E</b>		<b>11310'</b>
Name of production/injection zone(s) <b>DIVISION C, D, E, F and SCHIST BASEMENT</b>			<b>DIVISION F</b>		<b>11360'</b>
			<b>CALENDAR 50 FAULT</b>		<b>11707'</b>
			<b>SHALE-2</b>		<b>12411'</b>
			<b>SHALE-1</b>		<b>12510'</b>
			<b>BASEMENT</b>		<b>12933'</b>
			Formation and age at total depth <b>Basement/Jurassic</b>		Base of fresh water <b>2248' MD</b>

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	26	25.9	95.3	113	100	50
Production After 30 days	39	25.9	81.3	99	130	45

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (Inches API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
30"	surface	103'	118.6#	Conductor	N	38	581 sacks (668 cu ft)		surface
18-5/8"	surface	596'	97#	J-55 seamless	N	24	1120 sacks (1633 cu ft)		surface
13-3/8"	surface	2362'	72#	L-80 seamless	N	17-1/2	1416 sacks (2302 cu ft)		surface
9-5/8"	surface	9992'	53.5#	P-110 seamless	N	12-1/4	1391 sacks (3176 cu ft)		2675'
7"	9674'	13173'	32#	P-110 seamless	N	8-1/2	338 sacks (686 cu ft)		10190'-11080'

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)

7" perforated 2" X 100 mesh slots, 16 rows, 6" centers 13168'-12394'

7" perforated w/ five (5) 0.43" HPF 11150'-11370' & 11580'-11840'

Logs/surveys run?  Yes  No If yes, list type(s) and depth(s)

In compliance with Sec. 3215, Division 3, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name of person filing report <b>Steve Bell</b>	Telephone Number <b>(562) 624-3400</b>	Signature	Date <b>3-16-2015</b>
Address <b>PO Box 2900</b>		City/State <b>Long Beach, CA</b>	Zip Code <b>90801</b>
Individual to contact for technical question <b>Tamara Lopez</b>	Telephone Number <b>(562) 624-3400</b>	E-Mail Address: <b>tamara.lopez@crc.com</b>	



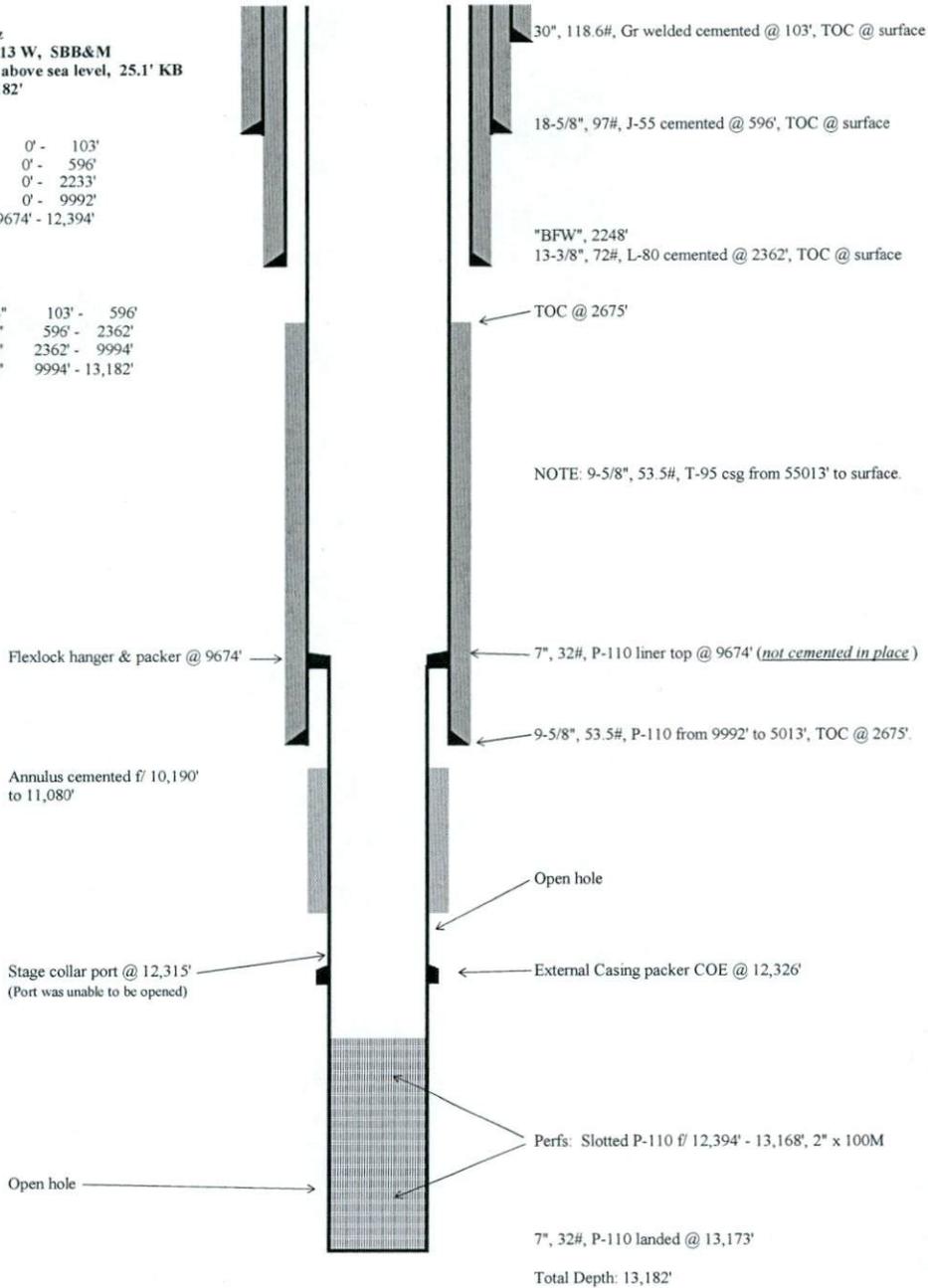
### DOM-2

API# 037-27148

Field: Dominguez  
 Sec: 33, T3 S, R 13 W, SBB&M  
 Elevation: 168.7' above sea level, 25.1' KB  
 Total Depth: 13,182'

30", 118.5#,	0' - 103'
18-5/8", 97.0#,	0' - 596'
13-3/8", 72.0#,	0' - 2233'
9-5/8", 53.5#,	0' - 9992'
7", 32.0#,	9674' - 12,394'

Hole Size:	24"	103' - 596'
	17-1/2"	596' - 2362'
	12-1/4"	2362' - 9994'
	8-1/2"	9994' - 13,182'





# DOM-2

API# 037-27148

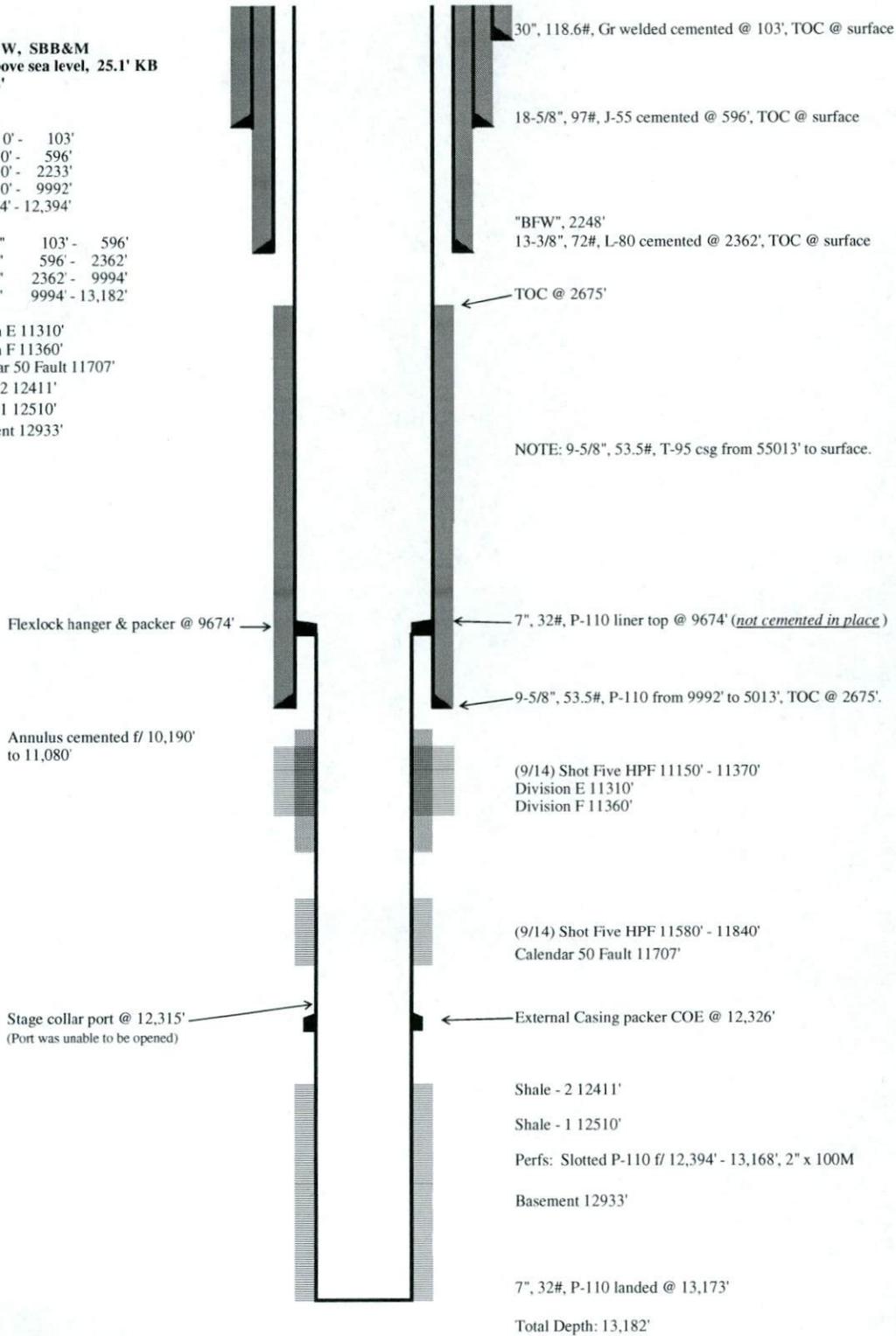
**Field: Dominguez**  
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**Hole Size:**

24"	103' - 596'
17-1/2"	596' - 2362'
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8-1/2"	9994' - 13,182'

**Markers:** Divison E 11310'  
 Divison F 11360'  
 Calendar 50 Fault 11707'  
 Shale - 2 12411'  
 Shale - 1 12510'  
 Basement 12933'



NOTE: 9-5/8", 53.5#, T-95 csg from 55013' to surface.

## HISTORY OF OIL OR GAS WELL

Operator: USA INC LA BASIN  
Well: DOM-002

Field: DOMINGUEZ  
Sec: 33 T: 3S

R: 13W  
County: LOS ANGELES  
S.B.B. & M.

API#: 04-037-27148

Name: Steve Bell  
(Person submitting report)

Title: Agent  
(President, Secretary, or Agent)

Signature: \_\_\_\_\_  
P.O. Box 2900 Long Beach Ca 90801

Date: \_\_\_\_\_  
562-624-3400  
(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 such as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, balling tests, and initial production data.

## Recompletion

Work Type	Primary Reason	Secondary Reason	Start Date	End Date
RECOMPLETION	ADD PAY NEW ZONE		08/26/2014	10/02/2014

08/26/2014 Midnight to Midnight

MOVED IN & RIGGED UP NABORS RIG #1438 @ 06:00 HRS ON 08/26/2014.

08/27/2014 Midnight to Midnight

RAN 2.30" GAUGE RIG TO 9600' W/ NO RESTRICTION. TOP OF ESP @ 9612'. SHOT (1) 1/2" HOLE IN TBG STRING @ 9563'. DISPLACED HOLE W/ 700 BBLs 86# CACL.

08/28/2014 Midnight to Midnight

SHUT DOWN FOR SAFETY STAND DOWN & REQUIRED TRAINING CLASSES.

08/29/2014 Midnight to Midnight

INSTALLED & TEST BOPE. PULLED BOPE. ATTEMPTED TO REPAIR LEAKING FLANGE.

08/30/2014 Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

08/31/2014 Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

09/01/2014 Midnight to Midnight

REPLACED MUD CROSS. INSTALLED & TEST BOPE. DOGGR WAIVED BOPE INSPECTION.

09/02/2014 Midnight to Midnight

PULLED ESP ASSEMBLY.

09/03/2014 Midnight to Midnight

RAN 7' CSG SCRAPER ASSEMBLY TO 2400'.

09/04/2014 Midnight to Midnight

RAN 7" SCRAPER ASSEMBLY TO 12233' (ECOD @ 13114').

09/05/2014 Midnight to Midnight

RAN 7" SCRAPER ASSEMBLY TO 13114' (ECOD).

## HISTORY OF OIL OR GAS WELL

**Operator:** USA INC LA BASIN  
**Well:** DOM-002

**Field:** DOMINGUEZ  
**Sec:** 33    **T:** 3S    **R:** 13W

**County:** LOS ANGELES  
**S.B.B. & M.**

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**09/06/2014** Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

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**09/07/2014** Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

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**09/08/2014** Midnight to Midnight

PUMPED 40 BBLS OF 86# CACL. SET 7" ULTRA-LOC RBP @ 10275'.

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**09/09/2014** Midnight to Midnight

SET 7" RBP @ 12100'. DISPLACED FLUID IN HOLE W/ 60 BBLS OF CACL. PRESSURE TESTED CSG 12100'- SURFACE TO 3500#. DUMPED 7.5 CF OF 8-12 SAND ON TOP OF RBP.

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**09/10/2014** Midnight to Midnight

CHANGED OUT DRILL LINE ON RIG.

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**09/11/2014** Midnight to Midnight

LOCATED SAND CAP @ 12060'.

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**09/12/2014** Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

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**09/13/2014** Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

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**09/14/2014** Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

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**09/15/2014** Midnight to Midnight

ASSEMBLED PERFORATING GUN ASSEMBLY.

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**09/16/2014** Midnight to Midnight

CONT'D ASSEMBLING TCP GUNS. SPACED OUT GUNS TO DEPTH.

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**09/17/2014** Midnight to Midnight

JET PERFORATED 7" CSG W/ (5) FIVE 0.43 HPF 11150'-11370' & 11580'-11840'. CIRCULATED OUT GAS W/ 700 BBLS 7% KCL. ATTEMPTED TO BLEED WELL. CSG PRESSURE @ 500#.

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**09/18/2014** Midnight to Midnight

KILLED WELL W/ 725 BBLS 86# CACL.

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**09/19/2014** Midnight to Midnight

PULLED TCP GUNS. RAN 7" SCRAPERS ASSEMBLY TO 4116'.

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**09/20/2014** Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

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**09/21/2014** Midnight to Midnight

## HISTORY OF OIL OR GAS WELL

**Operator:** USA INC LA BASIN  
**Well:** DOM-002

**Field:** DOMINGUEZ  
**Sec:** 33      **T:** 3S      **R:** 13W

**County:** LOS ANGELES  
**S.B.B. & M.**

SHUT DOWN FOR THE WEEKEND.

09/22/2014 Midnight to Midnight

RAN 7" SCRAPER ASSEMBLY TO 12060' (TOP OF SAND CAP). CIRCULATED OUT SAND CAP 12060'-12096'.

09/23/2014 Midnight to Midnight

PULLED SCRAPER ASSEMBLY. ASSEMBLED RBP RETRIEVING TOOL.

09/24/2014 Midnight to Midnight

DISPLACED FLUID IN HOLE W/ 60 BBLs OF 86#. CIRCULATED HOLE CLEAN 12096'-12100'. ATTEMPTED TO RELEASE RBP.

09/25/2014 Midnight to Midnight

RAN POWER SWIVEL ASSEMBLY. RELEASED RBP @ 12100'. RELEASED PKR.

09/26/2014 Midnight to Midnight

PULLED RBP, PKRS & PKR ELEMENTS.

09/27/2014 Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

09/28/2014 Midnight to Midnight

SHUT DOWN FOR THE WEEKEND.

09/29/2014 Midnight to Midnight

ASSEMBLED ESP ASSEMBLY.

09/30/2014 Midnight to Midnight

RAN ESP ASSEMBLY ON RE-RAN & NEW 2-7/8" N80 BARE TBG @ 9661'.

10/01/2014 Midnight to Midnight

REMOVED BOPE. INSTALLED & TESTED WELLHEAD TO 2500#.

10/02/2014 Midnight to Midnight

RELEASED RIG @ 18:00 HRS ON 10/02/2014. WELL PLACED ON PRODUCTION @ 10:00 HRS ON 10/03/2014.

**New Holes**

Wellbore No.	Hole Size (in)	Top MD (ft)	Btm MD (ft)	Start Date	End Date
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**New Casing/Liner Strings**

Size	Assembly Name	Installed	Wellbore No	Top MD (ft)	Btm MD (ft)
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109

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**HISTORY OF OIL OR GAS WELL**

**Operator:** USA INC LA BASIN  
**Well:** DOM-002

**Field:** DOMINGUEZ  
**Sec:** 33    **T:** 3S    **R:** 13W

**County:** LOS ANGELES  
**S.B.B. & M.**

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**New Perforated Intervals**

<b>Date Shot</b>	<b>Wellbore No.</b>	<b>Top MD (ft)</b>	<b>Btm MD (ft)</b>	<b>Length (ft)</b>	<b>SPF</b>	<b>Phasing (°)</b>
09/17/2014	00	11,150	11,370	220	5	60.00
09/17/2014	00	11,580	11,840	260	5	60.00

**DEPARTMENT OF CONSERVATION***Managing California's Working Lands***DIVISION OF OIL, GAS, & GEOTHERMAL RESOURCES**

5816 CORPORATE AVENUE • Suite 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE [conservation.ca.gov](http://conservation.ca.gov)

February 4, 2015

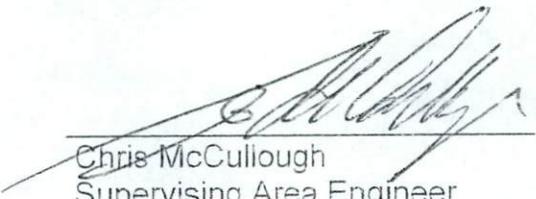
Mr. Scott Walker, Agent  
Oxy USA Inc. (O2475)  
111 W. Ocean Blvd., 8<sup>th</sup> FL  
Long Beach, CA 90802

Subject: DOM-001 AND DOM-002 EXPIRATION OF CONFIDENTIAL STATUS

Dear Mr. Walker:

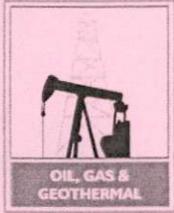
The confidential status of your wells DOM-001 (API No. 037-27124) and DOM-002 (API No. 037-27148) in the Dominguez field expired on November 20, 2014. All records associated with these wells will now be available to the public. Please contact Jack Collender at (714) 816-6847 if you have any questions regarding this letter.

Sincerely,



Chris McCullough  
Supervising Area Engineer

cc: Well Files – DOM 001 (037-27124)  
Well Files – DOM 002 (037-27148)



RAL RESOURCES AGENCY OF CALIFORNIA  
 DEPARTMENT OF CONSERVATION  
 DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES  
 5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. P 114-0675

**PERMIT TO CONDUCT WELL OPERATIONS**

CONFIDENTIAL WELL

Old	New
208	208
FIELD CODE	
00	00
AREA CODE	
--	--
POOL CODE	

Cypress, California  
 August 07, 2014

Mr. Scott Walker, Agent  
 Oxy USA Inc. (O2475)  
 111 W. Ocean Blvd., 8th FL  
 Long Beach, CA 90802

Your proposal to **Rework** (add perforations) well **DOM-002**, A.P.I. No. **037-27148**, Section **33**, T. **03S**, R. **13W**, **SB** B. & M., **Dominguez** field, -- area, **Division E** pool, **Los Angeles** County, dated **8/5/2014**, received **8/6/2014** has been examined in conjunction with records filed in this office. (Lat: **33.863534** Long: **-118.243132** Datum: **83**)

**THE PROPOSAL IS APPROVED PROVIDED:**

- 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:
  - Class **II2M**, with hydraulic controls, during **rework** operations.
  - A **2M lubricator** for **wireline** operations.
- Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
- Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
- Water shutoff effectiveness is demonstrated by a **production test** within **60** days of the well being placed on a production.
- No program changes are made without prior Division approval.
- THIS DIVISION SHALL BE NOTIFIED TO:**
  - Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
  - Witness a test of the effectiveness of the **7"** shutoff above the **Division E** zone by a production water shutoff test.

**NOTE:**

- Hydrogen sulfide gas (H<sub>2</sub>S) is known to be present in this area, adequate safety precautions shall be taken prior to and during well operations.
- The Division recommends, as a minimum, that carbon monoxide monitoring equipment and a vent line be installed and maintained in operating condition during all extensive perforating operations.
- The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.

(Continued on page 2)

Blanket Bond  
 cc: Update  
 EDP  
 Los Angeles Fire Dept

Steven Bohlen  
 State Oil and Gas Supervisor

Engineer Gary Ngo  
 Office (714) 816-6847

By  
 For

Daniel J. Dudak, District Deputy

GN/gn

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.

Page 2 of 2

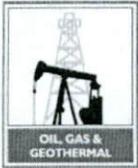
Well #: **DOM-002**

API #: **037-27148**

Permit: **P 114-0675**

Date: August 07, 2014

4. Upon completion of the proposed work, a Well Summary (form OG 100) and a History of Oil or Gas Well (form OG103) and copies of all logs, tests, and surveys shall be submitted to this office.
5. **Any well stimulation conducted after January 1, 2014 will be subject to Senate Bill 4, (Chapter 313, 2013 Statute) requirements.**



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

#1140075

FOR DIVISION USE ONLY			
Bond	Forms		
	OGD114	OGD121	
BB	08/06/14	08/06/14	TW

OG  
gn

Confidential.

## NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://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 DOM-002, API No. 037-27148,  
 (Check one)

Sec. 33, T. 3S, R. 13W, S.B. B.&M., Dominguez 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 "Actual" & "Proposed"

The total depth is: 13182' MD feet.

The effective depth is: 13173' MD feet.

Present completion zone(s): Division E  
 (Name)

Anticipated completion zone(s): Division E  
 (Name)

Present zone pressure: 5200 psi.

Anticipated/existing new zone pressure: 4800 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.)**

1. Rig up, pull production equipment.
2. Tag for fill and clean out if necessary.
3. Selectively perforate from 11150' - 11840'.
4. Acid stimulate perforations.
5. Run production equipment. RTP.

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  
Oxy, USA Inc.

Address  
P O Box 2900

City/State  
Long Beach, CA

Zip Code  
90801

Name of Person Filing Notice  
Scott Walker

Telephone Number:  
(562) 472-6347

Signature

Date  
8/5/2014

Individual to contact for technical questions:  
Tamara Lopez, Engineer

Telephone Number:  
(562) 714-6534

E-Mail Address:  
Tamara\_Lopez@oxy.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.

Received -  
AUG 06 2014  
gn 08/06/14



# PROPOSED

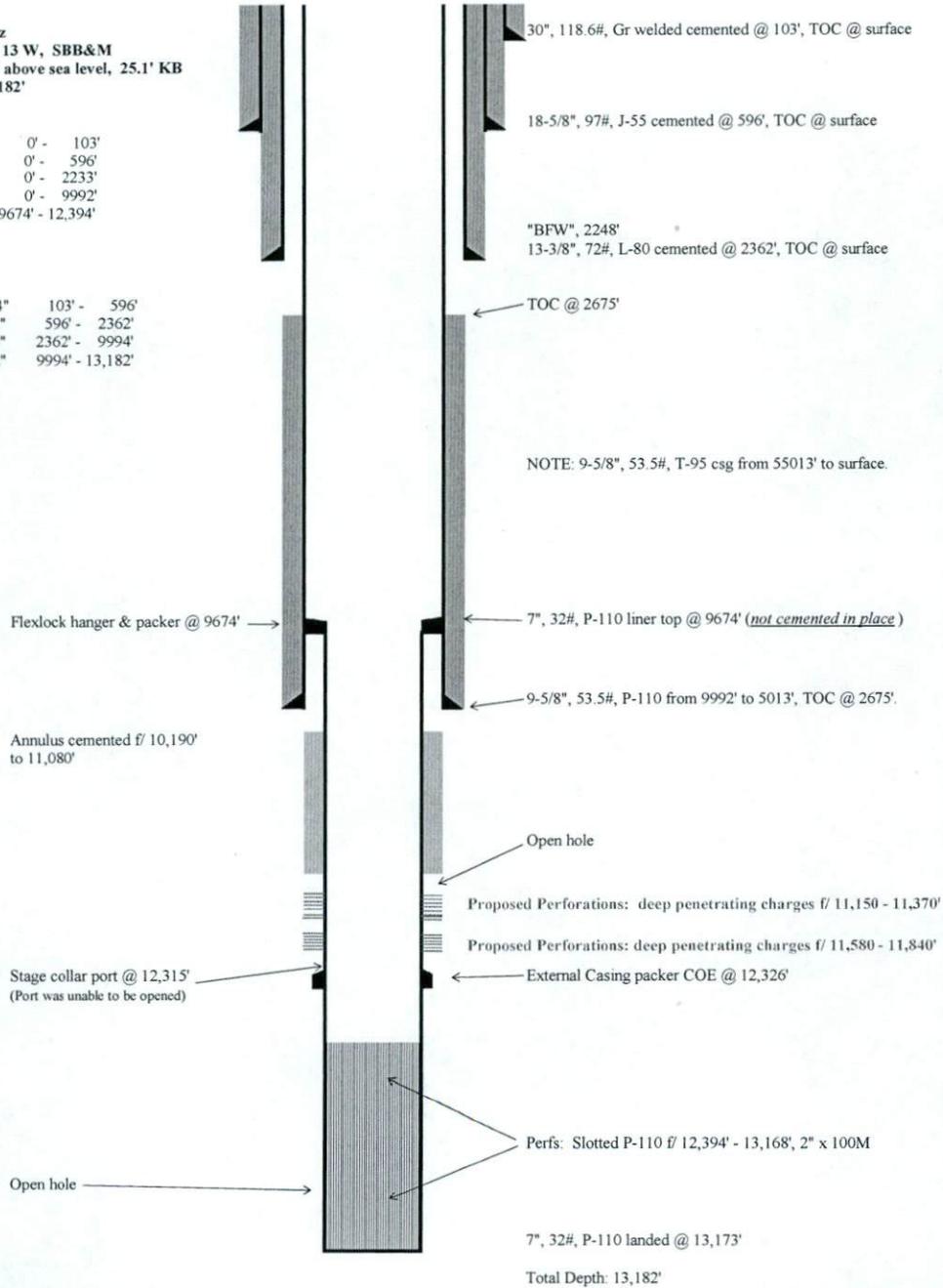
DOM-2

API# 037-27148

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6/23/14 TL



# DEPARTMENT OF CONSERVATION

*Managing California's Working Lands*

## Division of Oil, Gas, & Geothermal Resources

5816 CORPORATE AVENUE • SUITE 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE [conservation.ca.gov](http://conservation.ca.gov)

June 17, 2014

Scott Walker, Agent  
Oxy USA, Inc  
111 West Ocean Blvd, Suite 800  
Long Beach, CA 90802

**Subject: Confidential Status Extension for Dominguez Oil Field Wells DOM-001 (API No. 037-27124) and DOM-002 (API No. 037-27148)**

Dear Mr. Walker:

Your request for extension of confidential status for the subject wells has been granted. All records pertaining to these wells will be held confidential until November 20, 2014. If you wish to continue the confidentiality status of these wells after November 20, 2014, please provide the Division written notification to Division and email a copy to [DOGGRDist1Notices@conservation.ca.gov](mailto:DOGGRDist1Notices@conservation.ca.gov) prior to November 10, 2014. If you have any questions regarding this matter, please feel free to contact Gary Ngo at [Gary.Ngo@conservation.ca.gov](mailto:Gary.Ngo@conservation.ca.gov) or at (714) 816-6847.

Sincerely,

A handwritten signature in black ink, appearing to read "Daniel J. Dudak", written over a horizontal line.

Daniel J. Dudak, District Deputy

MAK:GN



**OXY USA Inc.**  
**LA Basin Asset**  
A subsidiary of Occidental Petroleum Corporation

111 West Ocean Blvd, Suite 800  
Long Beach, CA 90802

May 14, 2014

California Department of Conservation – Division of Oil, Gas and Geothermal Resources  
5816 Corporate Ave, Suite 200  
Cypress, CA 90630-4731  
Attention: Mr. Dan Dudak, Mr. John Huff

Re: Extension of CDOGGR Records Confidentiality for Wells DOM-001 (037-27124) and  
DOM-002 (037-27148)  
Dominguez Field  
Section 33, T 3 S, R 13 W, San Bernardino B. & M.

Dear Mr. Dudak and Mr. Huff,

This letter is to request the extension of Confidentiality of CDOGGR Records for Wells  
DOM-001 (037-27124) and DOM-002 (API 037-27148). The date the drilling equipment  
was removed from the well site (PRC01, 3234 (e)) was May 20<sup>th</sup>, 2011.

Please extend the confidentiality status of all CDOGGR records for Wells DOM-001 (037-  
27124) and DOM-002 another six months. We have extenuating circumstances defined by  
Section 3234 (4) of PRC01 as follows:

1. Active competitive leasing and/or mineral rights sales in the immediate vicinity of  
the well.
2. Governmental or judicial action inhibiting oil or gas development.

The first reason is self explanatory. The second reason is due to our waiting on the EIR  
Certification from the City of Carson. The City of Carson is currently reviewing the EIR. We  
are expecting the EIR to be finalized in late 2014.

Thank you.

Respectfully Submitted,

Scott Walker  
Production Engineering Consultant/  
Regulatory Advisor/DOGGR Agent  
OXY Long Beach Business Unit  
a subsidiary of Occidental Petroleum Corporation  
562.624.3169

Huff, John@DOC

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**From:** Chen, Weiru@DOC  
**Sent:** Thursday, March 27, 2014 5:16 PM  
**To:** Ngo, Gary@DOC; Huff, John@DOC  
**Subject:** FW: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA  
**Attachments:** OLA-04-300-CVL-0002-03 03 SITE PLAN & SURVEY CONTROL.PDF; Well location comparison map with NAD83 coordinates.pdf; Aerial well location maps.pdf

Gary and John,

Chris Phillips, agent for Oxy, has confirmed the new NAD83 coordinates for the two confidential wells in Carson, Dominguez drillsite.

Please update the two well files and CalWIMS /DOMS accordingly for your records.

Thanks,

Weiru Chen  
Well Review

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Please consider the environment before printing this e-mail

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**From:** Chen, Weiru@DOC  
**Sent:** Thursday, March 27, 2014 4:56 PM  
**To:** 'Chris\_Phillips@oxy.com'  
**Subject:** RE: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA

3-27-2014 Thursday

Mr. Phillips,

Thank you for the location confirmation. We will update our records accordingly with the revised coordinated in our system. Thanks for your time and effort in this.

Weiru Chen  
Well Review Engineer

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**From:** [Chris\\_Phillips@oxy.com](mailto:Chris_Phillips@oxy.com) [[mailto:Chris\\_Phillips@oxy.com](mailto:Chris_Phillips@oxy.com)]  
**Sent:** Thursday, March 27, 2014 4:39 PM

**To:** Chen, Weiru@DOC

**Subject:** RE: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA

Wade,

The surveys you show below are correct. They are exactly in agreement with our Open Works data base.

**Best Regards,**

**Chris Phillips**  
**Senior Production Engineering and Operations Advisor**  
**Central Team, Ranger 7 South**  
**Oxy Long Beach - THUMS**  
**111 West Ocean Blvd, Suite 700**  
**Long Beach, CA 90802**  
**Phone: (562) 624-3474**  
**Cell: (562) 824-1759**

---

**From:** Chen, Weiru@DOC [<mailto:Weiru.Chen@conservation.ca.gov>]

**Sent:** Thursday, March 27, 2014 11:19 AM

**To:** Phillips, Chris

**Cc:** Ngo, Gary@DOC; Huff, John@DOC

**Subject:** RE: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA

3-27-2014 Thursday

RE: Corrected GPS NAD83 Latitude/Longitude coordinates for the two active Oxy wells at the Dominguez drillsite in Carson.

Good morning again, Mr. Phillips:

Per our telephone conversation, can you please verify that the new NAD83 coordinates provided on the siteplan by SPEC services (Oxy's contractor) are the latest and correct coordinates? They are for the two active OG wells, **DOM 001** (API#: 037-27124) and **DOM 002** (API#: 037-27148) located within the Dominguez production lease.

DOGGR's current NAD83 Lat./Long. Coordinates were entered in based on the Well Summary reports (see attached well info. Pages. Certain info has been blocked out due to confidentiality), when the wells were first completed. Our online mapping system still shows the incorrect well locations, same as on the Well Summary Reports (see maps) . If you could please verify that the correct coordinates are as follows, it would be much appreciated and we will then update our file records and our mapping system accordingly. Thank you for your help on this.

<u>Well Name</u>	<u>Latitude</u>	<u>Longitude</u>
<b>DOM-001</b>	N 33.863542	W 118.244068
<b>DOM-002</b>	N 33.863550	W 118.244037

Sincerely,

Weiru Chen  
Well Review Engineer

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 Please consider the environment before printing this e-mail

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**From:** Chen, Weiru@DOC [mailto:Weiru.Chen@conservation.ca.gov]  
**Sent:** Monday, March 24, 2014 3:54 PM  
**To:** Tan, Wu  
**Cc:** htalbott@specservices.com; Huff, John@DOC  
**Subject:** RE: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA

3-24-2014 Monday

RE: DOGGR Construction site well review for 1450 Charles Willard Street, Carson, CA (the true well surface locations)

Mr. Tan,

Having to look into the well locations for this project since last Friday, I think we found the source of the wrong well locations, and confusion.

I do concur that the wells W5 and W6 marked on the siteplan map should be where Wells W8 and W9 are plotted, respectively. The consultant's (Mr. Talbott's) updated siteplan map dated March 19, 2014 has the correct NAD83 coordinates for all the affected wells at the site. These are the two active wells that will be protected and won't be affected by this proposed construction project.

We have contacted the operator, Oxy USA, Inc., regarding the accurate NAD83 coordinates for these two wells. Wells W5 and W6 were plotted with the wrong coordinates. We will use the revised coordinates provided in Mr. Talbott's map and update our DOGGR online map. The true locations (of where W8 and W9 are) will soon be updated on our maps. Thank you for bringing this to our attention.

Please let me know if there are any more questions or if you notice more discrepancies. Have a good rest of the week.

Weiru Chen  
Well Review Engineer

State of California  
Department of Conservation  
Division of Oil, Gas, & Geothermal Resources (DOGGR)  
5816 Corporate Ave., Suite 200  
Cypress, CA 90630

Well Review Engineer

---

**From:** Tan, Wu [mailto:WTAN@dpw.lacounty.gov]  
**Sent:** Thursday, March 20, 2014 10:30 AM  
**To:** Chen, Weiru@DOC  
**Subject:** FW: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA

Hi Weiru,

Do you concur with the location of wells W5 and W6 which should be located within Wells W8 and W9....?

Thanks

Wu F. Tan, P.E.  
Environmental Programs Division  
County of Los Angeles Department of Public Works  
Phone: (626) 458-2193 | Fax: (626) 458-3569  
[wtan@dpw.lacounty.gov](mailto:wtan@dpw.lacounty.gov)

SAVE TREES AND ENERGY: PLEASE PRINT E-MAIL ONLY WHEN NECESSARY.



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**From:** [htalbott@specservices.com](mailto:htalbott@specservices.com) [mailto:[htalbott@specservices.com](mailto:htalbott@specservices.com)]  
**Sent:** Thursday, March 20, 2014 9:00 AM  
**To:** Tan, Wu  
**Cc:** Naslund, Lisa; [Weiru.Chen@conservation.ca.gov](mailto:Weiru.Chen@conservation.ca.gov); Vazifdar, Kawsar  
**Subject:** RE: Application for DOGGR Construction Approval - 1450 Charles Willard St., Carson, CA

Mr. Tan,

I've attached the well location drawing with note 4 that has been revised to say that wells W8 & W9 are active and will be protected during construction.

Per DOGGR review, the statuses of the wells are as follows:

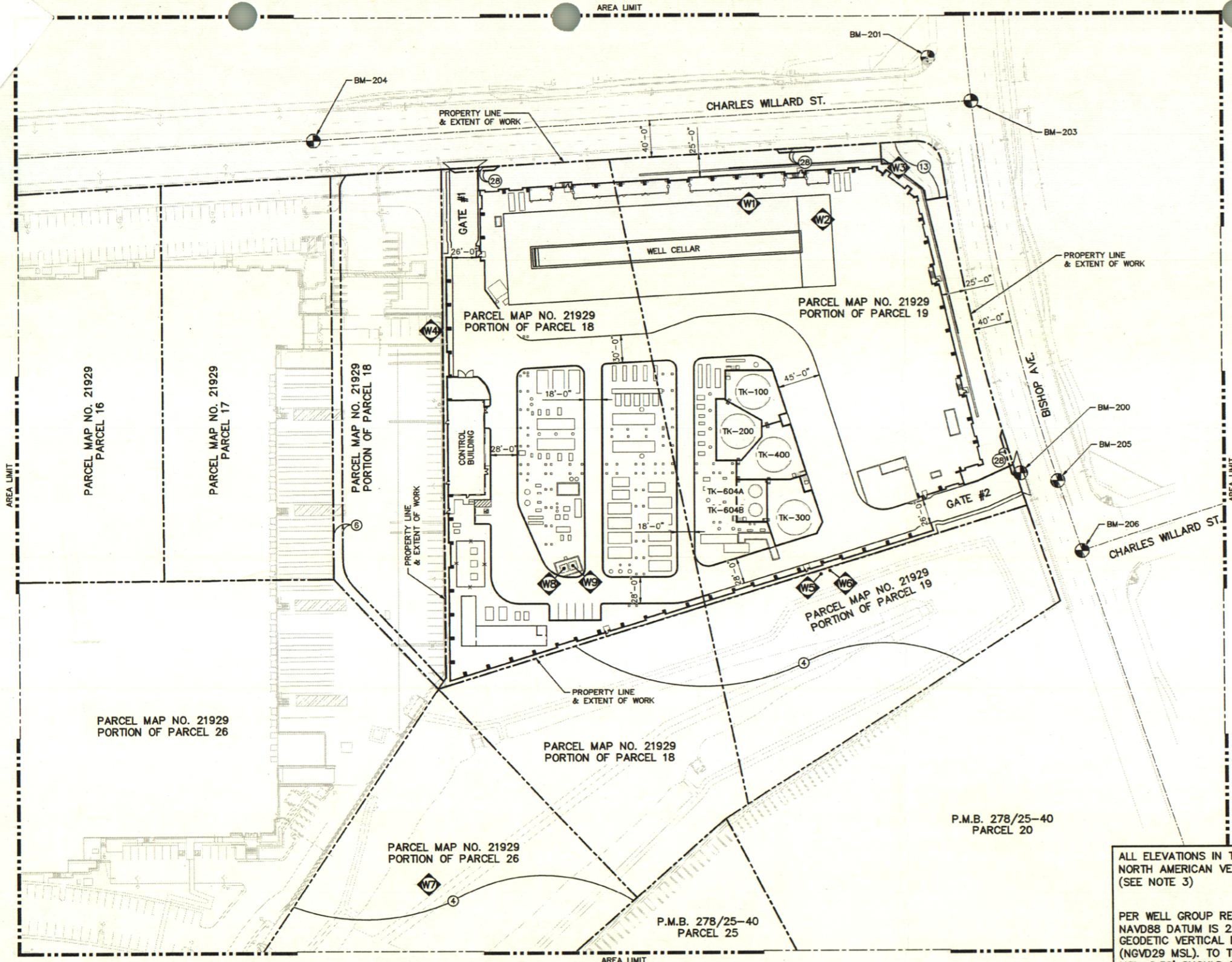
1. W1 - API# 03706413 – Status: abandoned, NOT to current standards\*
2. W2 - API# 03720740 – Status: abandoned, NOT to current standards
3. W3 - API# 03706867 – Status: abandoned to current standards
4. W4 - API# 03706544 – Status: abandoned, NOT to current standards
5. W5 – actually located at W8
6. W6 – actually located at W9
7. W7 - outside of project limits
8. W8 – API# 03727124 – Status: active
9. W9 – API# 03727148 – Status: active

\*Current standards are those currently adopted and referenced by the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Please let me know if additional information is needed.

Thank you,

Hazen Talbott, P.E.  
Project Engineer - Civil  
SPEC Services, Inc.  
(714) 963-8077 x 1197  
10540 Talbert Ave., Suite 100 East



SURVEY CONTROL SCHEDULE				
ITEM	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-200	1772913.96'	6488058.14'	173.67'	SCRIBE X IN CONC
BM-201	1773368.87'	6487961.13'	184.55'	SCRIBE X IN SDWALK
BM-203	1773320.62'	6488007.47'	184.60'	SPIKE AND WASHER
BM-204	1773279.75'	6487301.66'	166.49'	MAG NAIL AND TIN
BM-205	1772905.38'	6488097.90'	173.55'	SPIKE AND WASHER
BM-206	1772829.00'	6488123.31'	172.73'	SPIKE AND WASHER

EXISTING WELL SCHEDULE*				
WELL #	API #	LATITUDE	LONGITUDE	COMMENTS
W1	API 03706413	33.864635	-118.243415	-
W2	API 03720740	33.864587	-118.243155	-
W3	API 03706867	33.864742	-118.242886	-
W4	API 03706544	33.864255	-118.244537	-
W5	API 03727124	-	-	SEE WELL W6 & NOTE 4
W6	API 03727148	-	-	SEE WELL W5 & NOTE 4
W7	API 03706851	33.862596	-118.244549	-
W8	-	33.863542	-118.244068	SEE NOTE 4
W9	-	33.863550	-118.244037	SEE NOTE 4

\* API NUMBER, LATITUDE, & LONGITUDE FOR EXISTING WELLS OBTAINED FROM STATE DEPARTMENT OF CONSERVATION DIVISION OF OIL & GAS DOGGR MAPPING SYSTEM.

**NOTE TO PLAN CHECKER:**  
 THIS DRAWING IS BEING SUBMITTED TO OBTAIN FIRE DEPARTMENT CLEARANCE FOR ACCESS AND SITE PLAN ONLY IN ORDER TO OBTAIN A GRADING PERMIT. ALL STRUCTURES, EQUIPMENT AND FIRE PREVENTION MEASURES WILL BE PERMITTED SEPARATELY AT A LATER DATE.

- LEGEND:**
- = SURVEY CONTROL BENCHMARK (BM)
  - = PROPERTY LINE
  - = VARIABLE WIDTH EASEMENT OF THE CITY OF CARSON FOR FLOOD CONTROL, COVERED STORM DRAIN AND APPURTENANT STRUCTURES AND INGRESS AND EGRESS PURPOSES PER P.M. 21929-01 P.M.B. 278/29-34.
  - = VARIABLE WIDTH EASEMENT TO THE CITY OF CARSON FOR COVERED STORM DRAIN AND APPURTENANT STRUCTURES AND INGRESS AND EGRESS PURPOSES.
  - = CORNER LANDSCAPE EASEMENT
  - = ENTRY MONUMENT EASEMENT
  - = EXISTING WELL LOCATION (SEE "EXISTING WELL SCHEDULE" ON THIS DRAWING)

- NOTES:**
- FOR "CIVIL GENERAL NOTES" SEE DRAWINGS CVL-0002-04 THRU CVL-0002-06.
  - HORIZONTAL CONTROL : CALIFORNIA STATE PLANES NAD 1983 ZONE V EPOCH 2009.00
  - VERTICAL CONTROL : NORTH AMERICAN VERTICAL DATUM 1988 (CRTN DEFINITION)
  - THE LOCATION FOR API 03727124 AND 03727148 AS SHOWN ON DIVISION OF OIL & GAS MAPS HAS BEEN FOUND TO BE IN ERROR. WELLS W5 AND W6 ARE THE CORRECT LOCATIONS ON THIS DRAWING. THESE WELLS ARE ACTIVE AND WILL BE PROTECTED DURING CONSTRUCTION.

ALL ELEVATIONS IN THESE DRAWINGS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88). (SEE NOTE 3)

PER WELL GROUP REQUEST: NAVD88 DATUM IS 2.50' HIGHER THAN THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 MEAN SEA LEVEL (NGVD29 MSL). TO TRANSLATE FROM NAVD88 TO NGVD29 MSL, 2.50' SHOULD BE SUBTRACTED FROM THE NAVD88 VALUE. (173.00' (NAVD88 VALUE) MINUS 2.50' = 170.50' (NGVD29 MSL VALUE).

DOGGR  
 Received-  
 MAR 20 2014

**SITE PLAN & SURVEY CONTROL**  
 SCALE: 1"=60'

**RE-ISSUED FOR PERMIT**  
 March 19, 2014

1"=60' 60' 0' 60' 120'

D 3/19/2014 REVISED NOTE FOR DOGGR 5232 C 10/3/2013 ADDED WELL INFORMATION 5232 B 9/29/2013 ADDED PARCEL INFORMATION 5232 A 4/4/2013 ISSUED FOR PERMIT 5232				FIELD CODE AND NAME : 04 - DOMINGUEZ Facility Location Name : DOMINGUEZ Facility Type : - ONEQTY PROJECT CODE : 1109227		SCALE : AS NOTED CAD DRAWING	
REV DATE APP. BY DESCRIPTION PROJECT NUMBER PROJ. ENG. SPEC. ENG. OXY APPROVAL				DRWG. TYPE : CIVIL - GENERAL DESCRIPTION : SITE PLAN & SURVEY CONTROL		DRWG. ASSET FIELD CODE FACILITY LOCATION ENG. DISC. SERIAL NUMBER SHEET NUMBER REV NO OLA04 300 CVL 0002 03 D	

**SPEC SERVICES**  
 SPEC Services, Inc.  
 17101 Bushard Street  
 Fountain Valley, CA 92708  
 (714) 963-8077  
 S:\2327\04-04-300-CV-0002-03.dwg (03) SITE PLAN & SURVEY CONTROL

NOTICE: THIS DOCUMENT IS THE PROPERTY OF OXY USA, INC. AND MAY NOT BE DISCLOSED, REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE OWNER.

**CHECK LIST – RECORDS RECEIVED AND WELL STATUS**

Company:	OXY USA INC.	Well: DOM-002
API#:	<del>037-21748</del> 037-27148	Sec. 33, T. 3S, R. 13W. S. B. B. & M.
County:	Los Angeles	Field: DOMINGUEZ

RECORDS RECEIVED	DATE	STATUS
Well Summary (Form OG100)	10/18/2012 (2)	Producing <input type="checkbox"/> Drilling <input type="checkbox"/>
History (Form OG103)	10/18/2012 (2)	Abandoned <input type="checkbox"/> Idle <input type="checkbox"/>
Core Record (Form OG101)		Reabandoned <input type="checkbox"/> Other <input type="checkbox"/>
Directional Survey	04/11/2013(2)	
Sidewall Samples		
Date final records received.		
Electric Logs:		
Other:		
MEMORY LOG		
	04/11/13	
		<b>WELL TYPE</b>
		Oil <input type="checkbox"/> Waterflood <input 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:
		REMARKS:

ENGINEERS CHECK LIST	CLERICAL CHECK LIST
<input 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 checked="" type="checkbox"/> Location	Notice of Records Due
<input checked="" type="checkbox"/> Elevation	EDP
<input checked="" type="checkbox"/> Notices	District Date Base
<input checked="" type="checkbox"/> "T" Reports	Final Letter (OG159)
<input checked="" type="checkbox"/> Casing Record	Update Center
<input type="checkbox"/> Plugs	
<input checked="" type="checkbox"/> Directional Survey	
<input type="checkbox"/> Production/Injection (FAP Codes: )	
<input type="checkbox"/> E Well on Prod., enter EDP	
<input type="checkbox"/> Surface Inspection Required	<b>FIELD CHECK LIST</b>
<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)
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

**CHECK LIST – RECORDS RECEIVED AND WELL STATUS**

Company:	Oxy USA LA Basin Unit	Well: Dom 002
API#:	03727148	Sec. 33, T. 3S, R.13W. S. B. B. & M.
County:	Los Angeles	Field: Dominguez

CONFIDENTIAL

RECORDS RECEIVED	DATE	STATUS	WELL TYPE
Well Summary (Form OG100)		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 type="checkbox"/>
Directional Survey			
Sidewall Samples			
Date final records received.			
Electric Logs:	10/09/2013		
Other:			
Low shock sampling logs (2)	10/09/2013		
Array Induction Laterolog (2)	10/09/2013		
Laterolog resistivity log (2)	10/09/2013		
Compressional shear and DT computations (2)	10/09/2013		
Stratagraphic Units (2)	10/09/2013		
Ultra Sonic Imager (2)	10/09/2013		
Cement Bond Log (2)	10/09/2013		
Gamma Ray Tie in (2)	10/09/2013		
Formation Micro Imager (2)	10/09/2013		
		Oil <input type="checkbox"/>	Waterflood <input 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:	
		REMARKS:	

ENGINEERS CHECK LIST	CLERICAL CHECK LIST
<input type="checkbox"/> Summary, History & Core Record (Dupl.)	Location change
<input type="checkbox"/> Electric Log	Elevation change
<input type="checkbox"/> Operator's Name	Form OGD121
<input type="checkbox"/> Signature	Form OGD150b (Release of Bond)
<input type="checkbox"/> Well Designation	Duplicate logs to archives
<input type="checkbox"/> Location	Notice of Records Due
<input type="checkbox"/> Elevation	EDP
<input type="checkbox"/> Notices	District Date Base
<input type="checkbox"/> "T" Reports	Final Letter (OG159)
<input type="checkbox"/> Casing Record	Update Center
<input type="checkbox"/> Plugs	
<input type="checkbox"/> Directional Survey	
<input type="checkbox"/> Production/Injection (FAP Codes: )	
<input type="checkbox"/> E Well on Prod., enter EDP	
<input type="checkbox"/> Surface Inspection Required	<b>FIELD CHECK LIST</b>
<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
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<i>(Reason:)</i>	<i>(Signature)</i>
	RELEASE BOND
	Date Eligible
	<i>(Use date last needed records received.)</i>
	MAP AND MAP BOOK

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

**WELL SUMMARY REPORT**

API No. 04-037-27148-00

Operator <b>OXY USA INC.</b>		Well <b>DOM-002</b>			
Field (and Area, if applicable) <b>Dominguez</b>		County <b>Los Angeles</b>	Sec. <b>33</b>	T. <b>3S</b>	R. & B.&M. <b>13W S.B.</b>
Location of well (Give surface location from property or section corner, street center line) <b>Lambert Coordinates Zone 7 N 4 062 757.48 E 4 214 076.81</b>					Elevation of ground above sea level <b>194.10'</b>
Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Lat: <b>33.863534N</b> Long: <b>118.243132W</b>					

Was the well directionally drilled?  Yes  No If yes, show coordinates (from surface location) and true vertical depth at total depth.  
**N 4 063 967.63 E 4 215 378.22 (TMD 13182' / TVD 12651')**

Commenced drilling (date) <b>February 04, 2011</b>	(Orig hole) <b>13182'</b>	Total depth	Depth measurements taken from top of: <input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input type="checkbox"/> Kelly Bushing															
Completed drilling (date) <b>May 20, 2011</b>			Which is <b>25.13'</b> feet above ground.															
Commenced production (date)	Present effective <b>13169'</b>		GEOLOGICAL MARKERS															
Production mode: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Producing <input type="checkbox"/> Injecting <input type="checkbox"/> Gas lift	Junk? Describe:  Work Done:  <b>NEW COMPLETION</b>		<table border="1"> <tr><td><b>DIVISION E</b></td><td>DEPTH</td></tr> <tr><td><b>DIVISION F</b></td><td><b>11310'</b></td></tr> <tr><td><b>CALENDAR 50 FAULT</b></td><td><b>11360'</b></td></tr> <tr><td><b>SHALE-2</b></td><td><b>11707'</b></td></tr> <tr><td><b>SHALE-1</b></td><td><b>12411'</b></td></tr> <tr><td><b>BASEMENT</b></td><td><b>12510'</b></td></tr> <tr><td></td><td><b>12933'</b></td></tr> </table>		<b>DIVISION E</b>	DEPTH	<b>DIVISION F</b>	<b>11310'</b>	<b>CALENDAR 50 FAULT</b>	<b>11360'</b>	<b>SHALE-2</b>	<b>11707'</b>	<b>SHALE-1</b>	<b>12411'</b>	<b>BASEMENT</b>	<b>12510'</b>		<b>12933'</b>
<b>DIVISION E</b>	DEPTH																	
<b>DIVISION F</b>	<b>11310'</b>																	
<b>CALENDAR 50 FAULT</b>	<b>11360'</b>																	
<b>SHALE-2</b>	<b>11707'</b>																	
<b>SHALE-1</b>	<b>12411'</b>																	
<b>BASEMENT</b>	<b>12510'</b>																	
	<b>12933'</b>																	
Name of production/injection zone(s) <b>DIVISION E, F and SCHIST BASEMENT</b>			Formation and age at total depth <b>BASEMENT / JURASSIC</b>	Base of fresh water <b>2267' MD</b>														

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	100	31.7	48.0	278	876	860
Production After 30 days	40	31.7	50	112	450	860

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (Inches API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
30"	32.88'	103'	118.6#	Conductor	N	38	581 sacks (668 cu ft)		surface
18-5/8"	32.88'	596'	97#	J-55 seamless	N	24	1120 sacks (1633 cu ft)		surface
13-3/8"	32'	2362'	72#	L-80 seamless	N	17-1/2	1416 sacks (2302 cu ft)		surface
9-5/8"	36.5'	<del>1581'</del> 9992'	36#	J-55 seamless	N	12-1/4	1391 sacks (3176 cu ft)		2375'
7"	9648'	13174'	32#	P-110 seamless	N	8-3/4	338 sacks (686 cu ft)		10217'

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)

7" perforated 2" X 100 mesh slots, 16 rows, 6" centers 13169'-12777'

Logs/surveys run?  Yes  No If yes, list type(s) and depth(s) **DENSITY, NEUTRON, AIT, FMI 3800'-10000'** (Complete list page 8)

In compliance with Sec. 3215, Division 3, of the *Public Resources Code*, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name of person filing report <b>C. Phillips</b>	Telephone Number <b>(562) 824-1759</b>	Signature 	Date <b>10-18-2012</b>
Address <b>PO Box 2900</b>		City/State <b>Long Beach, CA</b>	Zip Code <b>90801</b>
Individual to contact for technical question <b>Mike McCarter</b>	Telephone Number <b>(562) 624-3400</b>	E-Mail Address: <b>mike_mccarter@oxy.com</b>	

OG100 (3/09)



## HISTORY OF OIL OR GAS WELL

**Operator:** OXY USA, INC  
**Well:** DOM-002

**Field:** DOMINGUEZ  
**Sec:** 33    **T:** 3S    **R:** 13W

**County:** LOS ANGELES  
**S.B.B. & M.**

**API#:** 04-037-27148-00

**Name:** Chris Phillips  
(Person submitting report)

**Title:** Agent  
(President, Secretary, or Agent)

**Signature:** \_\_\_\_\_  
 \_\_\_\_\_  
(Address)

**Date:** \_\_\_\_\_  
 \_\_\_\_\_  
(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 such as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, balling tests, and initial production data.

## New Well Completion Report

Work Type	Primary Reason	Secondary Reason	Start Date	End Date
EXPL DRILLING	ORIG DRILL DIR		02/04/2011	05/20/2011
EXPL COMPLETION	ORIG COMPL OH		05/02/2011	05/20/2011

02/04/2011 Midnight to Midnight

BEGAN H & P RIG #236 DRILLING OPERATIONS @ 06:00 HRS ON 02/04/2011.

02/05/2011 Midnight to Midnight

CONTINUED RIGGING UP.

02/06/2011 Midnight to Midnight

RAISED DERRICK. CONTINUED RIGGING UP.

02/07/2011 Midnight to Midnight

POWERED UP RIG. CONTINUED RIGGING UP. INSTALLED RISER ON 30" CONDUCTOR PIPE.

02/08/2011 Midnight to Midnight

CONTINUED RIGGING UP.

02/09/2011 Midnight to Midnight

LOCATED TOP OF CMT @ 75'. SPURRED IN WELL @ 16:00 HRS ON 02/09/2011. DRILLED OUT CMT IN CONDUCTOR 75'-103'. DRILLED & GYRO SURVEYED 24" HOLE 103'-172'.

02/10/2011 Midnight to Midnight

DRILLED & GYRO SURVEYED 24" HOLE 172'-510'.

02/11/2011 Midnight to Midnight

DRILLED & GYRO SURVEYED 24" HOLE 510'-606'. RAN GYROSCOPIC MULTIPLE SHOT SURVEY. CONDITIONED HOLE.

02/12/2011 Midnight to Midnight

RAN 18-5/8", 87#, J-55, BTC CSG (FC @ 545') @ 596'. CMT'D 18-5/8" CSG W/ 720 SX (1173 CF) CLASS G LEAD CMT & 400 (460 CF) CLASS G TAIL CMT. HAD CMT RETURNS TO SURFACE. REMOVED CONDUCTOR.

02/13/2011 Midnight to Midnight

CUT 30" CONDUCTOR @ CELLAR FLOOR. CUT & PREPPED 18-5/8" CSG. INSTALLED & TESTED WELLHEAD TO 1000#. INSTALLED BOPE.

02/14/2011 Midnight to Midnight

TESTED BOPE & CSG. BOPE INSPECTED BY DOGGR. RAN 17-1/2" CLEANOUT ASSEMBLY. DRILLED OUT 545'-606'. DRILLED 17-1/2" HOLE 606'-616'.

**HISTORY OF OIL OR GAS WELL**

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Field: DOMINGUEZ  
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02/15/2011 Midnight to Midnight

CIRCULATED HOLE CLEAN. RAN 17-1/2" DRILLING ASSEMBLY. DRILLED & GYRO SURVEYED 17-1/2" HOLE 616'-1128'.

02/16/2011 Midnight to Midnight

CIRCULATED HOLE CLEAN. REAMED 17-1/2" HOLE 890'-1128'. DRILLED & MWD SURVEYED 17-1/2" HOLE 1128'-1667'.

02/17/2011 Midnight to Midnight

DRILLED & MWD SURVEYED 17-1/2" HOLE 1667'-2155'.

02/18/2011 Midnight to Midnight

DRILLED & MWD SURVEYED 17-1/2" HOLE 2155'-2375'. CONDITIONED HOLE. SPOT REAMED @ 1490'. CONDITIONED MUD.

02/19/2011 Midnight to Midnight

RAN BNHO ASSEMBLY. REAMED 17-1/2" HOLE 807'-2375'. CONDITIONED HOLE.

02/20/2011 Midnight to Midnight

RAN 13-3/8", 72#, L-80, BTC CSG @ 2362' (FLOAT COLLAR @ 2272').

02/21/2011 Midnight to Midnight

CMT'D 13-3/8" CSG @ 2362' W/ 1416 SX (2302 CF) OF 13.6 PPG CLASS G LEAD CMT. HAD CMT RETURNS TO SURFACE. CHANGED OUT BOPE.

02/22/2011 Midnight to Midnight

TESTED BLIND RAMS & CSG TO 1750#.

02/23/2011 Midnight to Midnight

RAN 12-1/4" CLEANOUT ASSEMBLY. LOCATED TOP OF CMT @ 2269' (FC @ 2276'). BOPE TEST WITNESSED & APPROVED BY DOGGR.

02/24/2011 Midnight to Midnight

RE-TAGGED CMT @ 2269'. DRILLED OUT 2269'-2375'. DRILLED 12-1/4" HOLE 2375'-2385'. RAN FIT TEST TO 12.7 PPG EMW. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 2385'-3010'.

02/25/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 3010'-4113'. CHANGED OUT DAMAGED MUD MOTOR.

02/26/2011 Midnight to Midnight

REAMED 12-1/4" HOLE 4040'-4113'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 4113'-4505'.

02/27/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 4505'-4794'. CHANGED OUT MUD MOTOR & PDC BIT. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 4794'-4843'.

02/28/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 4843'-5295' (CORE POINT #1).

03/01/2011 Midnight to Midnight

RAN 120' OF 12-1/4" CORING ASSEMBLY. REAMED HOLE 5139'-5295'. CUT 5-1/4" CORE #1 5295'-5383' (88'). CORE JAMMED. BACK REAMED HOLE 5030'-4800'.

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03/02/2011 Midnight to Midnight

PULLED CORING ASSEMBLY. RECOVERED 86' (97% RECOVERY). DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 5383'-5486'.

03/03/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 5486'-5620' (CORE POINT #2). RAN 12-1/4" CORING ASSEMBLY.

03/04/2011 Midnight to Midnight

REAMED 12-1/4" HOLE 5320'-5620'. CUT 5-1/4" CORE #2 5620'-5710' (90'). RECOVERED 90' (100% RECOVERY).

03/05/2011 Midnight to Midnight

RAN PLATFORM EXPRESS LOG 5710'-2362'. RAN MDT LOG. TOOK FLUID SAMPLES @ 4766', 5059', 5313' & 5624'.

03/06/2011 Midnight to Midnight

RAN MDT LOG. TOOK SAMPLES @ 3148', 3330', 3757', 4242' & 4374'.

03/07/2011 Midnight to Midnight

RAN 12-1/4" DRILLING ASSEMBLY. SAFETY REAMED & LWD LOGGED 5500'-5710'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 5710'-6347'.

03/08/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 6347'-6542' (CORE POINT #3). RAN 12-1/4" CORING ASSEMBLY.

03/09/2011 Midnight to Midnight

CUT 5-1/4" CORE #3 6542'-6632' (90'). BACK REAMED 6130'-5815'. RECOVERED 91.6' (100% RECOVERY).

03/10/2011 Midnight to Midnight

RAN 12-1/4" DRILLING ASSEMBLY. REAMED & LWD LOGGED 6540'-6632'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 6632'-6985' (CORE PT #4). INCREASED MUD WT TO 10.4 PPG.

03/11/2011 Midnight to Midnight

RAN 12-1/4" CORING ASSEMBLY. SAFETY REAMED 6891'-6985'. CUT 5-1/4" CORE #4 6985'-7047' (62'). CORE JAMMED. PUMPED LCM & HIGH VISCOUS SWEEP. BACK REAMED OUT OF HOLE 7047'-6605'.

03/12/2011 Midnight to Midnight

RECOVERED 62.4' (100% RECOVERY). CUT 5-1/4" CORE #5 7048'-7058' (10'). RECOVERED 10' (100% RECOVERY).

03/13/2011 Midnight to Midnight

RAN 12-1/4" ASSEMBLY. SAFETY REAMED & LWD LOGGED 6970'-7057'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 7057'-7610'. CONDITIONED HOLE. REAMED TIGHT SPOT @ 7212'.

03/14/2011 Midnight to Midnight

RAN CORING ASSEMBLY. HUNG UP @ 7070'. REAMED 7070'-7208'. SAFETY REAMED TO 7610'. CUT 5-1/4" CORE #6 7610'-7700' (90'). PUMPED SWEEP. CIRCULATED HOLE CLEAN.

03/15/2011 Midnight to Midnight

RECOVERED 93' (100% RECOVERY). DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 7700'-8046'. GAS SPIKED @ 1800 UNITS. INCREASED MW TO 11 PPG. REAMED TIGHT SPOT @ 7977'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 8046'-8077'.

03/16/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 8077'-8454'.

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03/17/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 8454'-8803'. REPAIRED RIG. WIPED HOLE TO 7153' (TIGHT HOLE 8803'-7980'). SAFETY REAMED 8000'-8803'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 8803'-9048'.

03/18/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 9048'-9670'. UNABLE TO BUILD ANGLE.

03/19/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 9670'-9771'. CONDITIONED HOLE. REAMED & WASHED TIGHT HOLE 8203'-9771'.

03/20/2011 Midnight to Midnight

RAN CORING ASSEMBLY. REAMED 8236'-9771'. CUT 5-1/4" CORE #7 9771'-9824' (53'). PUMPED HIGH VIS SWEEP. CIRCULATED HOLE CLEAN.

03/21/2011 Midnight to Midnight

RECOVERED 53' (100% RECOVERY).

03/22/2011 Midnight to Midnight

RAN 12-1/4" DRILLING ASSEMBLY. SAFETY REAMED 9653'-9824'. DRILLED & MWD/LWD SURVEYED 12-1/4" HOLE 9824'-10000'. CONDITIONED HOLE.

03/23/2011 Midnight to Midnight

RAN DUAL LATEROLOG & MICRO SPHERICALLY FOCUSED LOG. TOOL STUCK @ 3914'. RAN 4-11/16" OVERSHOT & 2-1/4" GRAPPLE TO 3791'. FISHED W/ NO RECOVERY. FOUND OVERSHOT SPLIT & GRAPPLE MISSING.

03/24/2011 Midnight to Midnight

RAN 5-3/4" OVERSHOT W/ 3-5/8" GRAPPLE. WORKED FISH @ 3790'. PULLED WIRELINE F/ SOCKET. NO RECOVERY. RAN 11-3/4" LIP GUIDE & 7-3/8" OVERSHOT W/ 3-3/8" GRAPPLE/PACK-OFF. WORKED OVER FISH @ 3730'.

03/25/2011 Midnight to Midnight

RECOVERED FISH. RAN 12-1/4" BULLNOSE CLEANOUT ASSEMBLY. REAMED 12-1/4" HOLE 2362'-4330'.

03/26/2011 Midnight to Midnight

REAMED 12-1/4" HOLE 4330'-5000'. PUMPED HIGH VIS PILL. REAMED TIGHT HOLE 7125'-7310'. STUCK @ 8018'. JARRED ON FISH. RAN WIRELINE FREEPOINT. FREE @ 7897' (TOP OF BHA).

03/27/2011 Midnight to Midnight

BACKED OFF DRILL PIPE ABOVE STUCK BOTTOM HOLE ASSEMBLY @ 7897'. RAN FISHING ASSEMBLY TO TOP OF FISH @ 7897'. JARRED FISH FREE.

03/28/2011 Midnight to Midnight

BACK REAMED OUT OF HOLE W/ FISH TO 3650'. RECOVERED ALL FISH. RAN 12-1/4" BNHO ASSEMBLY. REAMED 12-1/4" HOLE 2362'-3700'.

03/29/2011 Midnight to Midnight

REAMED 12-1/4" HOLE 3700'-5000'. WASHED & REAMED TIGHT HOLE 5000'-8600'. HAD RETURNS OF SAND & SMALL FLAKES OF SANDSTONE. PUMPED WEIGHTED SWEEPS @ 5000' & 8500'.

03/30/2011 Midnight to Midnight

WASHED & REAMED 12-1/4" HOLE 8600'-9870'.

03/31/2011 Midnight to Midnight

WASHED & REAMED 12-1/4" HOLE 9870'-10000' (9-5/8" CSG PT). BACK REAMED 10000'-9760'. MADE WIPER TRIP TO 7629'. SAFETY REAMED 9760'-10000'. PUMPED SWEEP.

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04/01/2011 Midnight to Midnight

RAN SONIC & IMAGE LOG TO 9700'. WIRELINE STUCK @ 4800'. RAN 5-3/4" OVERSHOT W/ 3-5/8" GRAPPLE.

04/02/2011 Midnight to Midnight

WORKED OVER FISH @ 9564'. RECOVERED LOGGING TOOL. RAN 12-1/4" BNHO ASSEMBLY. SAFETY REAMED 12-1/4" HOLE 9636'-9725'.

04/03/2011 Midnight to Midnight

SAFETY REAMED 12-1/4" HOLE 9726'-10000'.

04/04/2011 Midnight to Midnight

RAN DENSITY/ NEUTRON/ AIT/ FMI LOGGING ASSEMBLY.

04/05/2011 Midnight to Midnight

RAN DENSITY/ NEUTRON/ AIT/ FMI LOGS 3800'-10000'.

04/06/2011 Midnight to Midnight

RAN 12-1/4" BNHO ASSEMBLY. REAMED 9731'-10000'. CIRCULATED & CONDITIONED MUD. PUMPED HIGH VIS SWEEP.

04/07/2011 Midnight to Midnight

MADE UP 9-5/8", 53.5#, P-110, 8RD LTC CSG ASSEMBLY.

04/08/2011 Midnight to Midnight

RAN 9-5/8", 53.5#, P-110, LTC CSG & 9-5/8", 53.5#, T-95, LTC CSG @ 9992' (FC @ 9898'). ATTEMPTED TO CIRCULATE. NO RETURNS.

04/09/2011 Midnight to Midnight

CMT'D 9-5/8" CSG @ 9992' W/ 784 SX (1945 CF) 13.6# G LEAD CMT & 608 SX (1235 CF) 14.5# G TAIL CMT. BUMPED PLUG. FLOATS HELD. INSTALLED & TESTED PACKOFF TO 5000#.

04/10/2011 Midnight to Midnight

TESTED BLIND RAMS TO 3000#. RAN 8-1/2" CLEANOUT ASSEMBLY. LOCATED TOP OF CMT @ 9894'.

04/11/2011 Midnight to Midnight

CIRCULATED & CONDITIONED MUD. INCREASED MUD WT TO 12 PPG. TESTED BOPE. INSPECTED BY DOGGR. TESTED CSG TO 6600#. DRILLED OUT 9898'-10000. DRILLED NEW FORMATION 10000'-10005'. CONDITIONED HOLE.

04/12/2011 Midnight to Midnight

RAN 7-1/2" JUNK BASKET TO 10005'. RETRIEVED ONE (1) OF 3 PIECES OF JUNK METAL.

04/13/2011 Midnight to Midnight

RAN 7" MAGNET TO 10005'. RECOVERED PIECE OF GRAPPLE. RAN 8-1/2" DRILLING ASSEMBLY. RAN FIT TEST TO 14.98 PPG EMW. DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 10005'-10019'.

04/14/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 10019'-10414'.

04/15/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 10414'-10628'. INCREASED MUD WT TO 12.5 PPG.

04/16/2011 Midnight to Midnight

**HISTORY OF OIL OR GAS WELL**

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**County:** LOS ANGELES  
**S.B.B. & M.**

CIRCULATED & CONDITIONED MUD. DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 10628'-10670'.

04/17/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 10670'-11320'.

04/18/2011 Midnight to Midnight

PUMPED WEIGHTED HIGH VIS SWEEP. BACK REAMED 11320'-10900'. WIPED HOLE TO 9992'. SAFETY REAMED LAST 90'. PUMP WEIGHTED HIGH VIS SWEEP.

04/19/2011 Midnight to Midnight

RAN CORING ASSEMBLY. SAFETY REAM 11230'-11320'. CUT 4" CORE 11320'-11344'. CORE JAMMED. PUMPED HIGH VIS SWEEP. CIRCULATED CLEAN.

04/20/2011 Midnight to Midnight

RECOVERED 4.5' (18.75% RECOVERY). RAN 8-1/2" DRILLING ASSEMBLY. DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 11344'-11531'.

04/21/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 11531'-12098'.

04/22/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 12098'-12405'. HAD GAS SPIKES. INCREASED MUD WT 12.8 PPG-13.2 PPG. DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 12405'-12464'. MADE WIPER TRIP TO 10900'. PUMPED HIGH VIS SWEEPS.

04/23/2011 Midnight to Midnight

RAN CORING ASSEMBLY. CUT 4" CORE 12464'-12489'. PUMPED HIGH VISC SWEEP.

04/24/2011 Midnight to Midnight

RECOVERED 21' (84% RECOVERY).

04/25/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 12489'-12880'.

04/26/2011 Midnight to Midnight

DRILLED & MWD/LWD SURVEYED 8-1/2" HOLE 12880'-13182' TD.

04/27/2011 Midnight to Midnight

RAN 6-1/2" MAGNET TO 9-5/8" CSG SHOE @ 9992'. RECOVERED METAL SHAVINGS.

04/28/2011 Midnight to Midnight

RAN SONIC SCANNER / FMI (RUN #1) & PEX-HRLA-ECS-HNGS (RUN #2) LOGS 13182'-9992' (9-5/8" SHOE). RAN USIT/CBL LOG 9992'-SURFACE.

04/29/2011 Midnight to Midnight

RAN 8-1/2" BNHO. SAFETY REAMED 8-1/2" HOLE 12862'-13183' TD. PUMPED WEIGHTED HIGH VISC SWEEP.

04/30/2011 Midnight to Midnight

RAN ROTARY SIDEWALL CORING TOOL. STOPPED @ 12115'. TOOK SWC'S 12115'-10954'.

05/01/2011 Midnight to Midnight

TOOK 18 SWC'S 10926'-10150'. RAN 8-1/2" REAMER ASSEMBLY. REAMED TIGHT SPOT @ 12115'. SAFETY REAMED LAST 334'. RAN WIRELINE SWC TOOL. TOOK 11 SWC'S 13044'-12924'.

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05/02/2011 Midnight to Midnight

TOOK FOUR SWC'S 12923', 12922', 12921' & 12919'. CORING TOOL FAILED. RAN CMX LOGGING TOOL TO 13182'-12700'. RAN 8-1/2" REAMER ASSEMBLY 12880'-13182' TD. CIRCULATED & CONDITIONED MUD.

05/03/2011 Midnight to Midnight

SPOTTED LOW SOLIDS 13.2# KCL/GELITE PILL 13182'-9992'. MADE UP 7", 32#, P-110, BTC BLANK & SLOTTED LINER.

05/04/2011 Midnight to Midnight

RAN 7", 32#, P-110, BTC BLANK & SLOTTED LINER @ 13173'. INFLATED ACP. CMT'D LINER W/ 338 SX (686 CF) CLASS G CMT. CMT PACKED OFF. ATTEMPTED TO CIRCULATE OUT CMT. SET HGR PKR. TESTED LINER LAP TO 3800#.

05/05/2011 Midnight to Midnight

RAN 6" DRILL BIT ASSEMBLY TO 5064'. CIRCULATED BOTTOMS UP.

05/06/2011 Midnight to Midnight

RAN 6" DRILL BIT ASSEMBLY TO STAGE COLLAR @ 13321'. CLOSED SLEEVE. DRILLED OUT SLEEVE. PUMPED HIGH VIS SWEEP. TESTED CSG & LINER TO 3800#. SET RTTS PKR @ 9620'.

05/07/2011 Midnight to Midnight

CONDUCTED NEGATIVE LAP TEST OF LINER FOR ONE (1) HR. DOGGR WITNESSED CHARTS. RAN 6" BIT & SCRAPER. TESTED BOPE/CSG/LINER/LAP TO 5800#. DRILLED OUT ACP CMT & FLOAT COLLARS TO 13160'.

05/08/2011 Midnight to Midnight

RAN 6" BIT & SCRAPER ASSEMBLY TO 13160'. CIRCULATED OUT GAS. SPOTTED 13.2 PPG KCL/GELITE PILL W/ BIOCIDE INSIDE 7" SLOTTED LINER. RAN 7" USIT/CBL LOG 12570-9645'.

05/09/2011 Midnight to Midnight

SET HP-1 PKR @ 12350'. ANCHOR TESTED PKR. PRESSURE TESTED ANNULUS TO 3500#.

05/10/2011 Midnight to Midnight

PULLED PKR SETTING ASSEMBLY.

05/11/2011 Midnight to Midnight

PRESSURE TESTED 2-7/8" RAMS TO 4000#. RAN SEAL ASSEMBLY ON 2-7/8", 6.4#, L-80, HYDRIL 563 PRODUCTION TBG.

05/12/2011 Midnight to Midnight

RAN SEAL ASSEMBLY TO 12300'. CIRCULATED 250 BBLS KCL/GELITE. TESTED LUBRICATOR TO 5000#. DISPLACED FLUID IN HOLE W/ 11.5 PPG CACL2 BRINE.

05/13/2011 Midnight to Midnight

INSTALLED SCSSV LINE THROUGH HGR. LANDED TBG HANGER. TEST TBG ANNULUS TO 5800#. INSTALLED BPV. REMOVED BOPE. INSTALLED & TESTED CAMERON SINGLE MASTER WELLHEAD TO 10000#.

05/14/2011 Midnight to Midnight

TESTED HGR BONNET & API RING TO 250# LOW & 10000# FUNCTION TESTED SCSSV TO 10000#.

05/15/2011 Midnight to Midnight

RIGGED DOWN.

05/16/2011 Midnight to Midnight

RIGGED DOWN.

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05/17/2011 Midnight to Midnight

RIGGED DOWN.

05/18/2011 Midnight to Midnight

RIGGED DOWN.

05/19/2011 Midnight to Midnight

MOVED OUT DRILLING RIG EQUIPMENT.

05/20/2011 Midnight to Midnight

COMPLETED RIG REMOVAL. PREPPED LOCATION FOR RESTORATION. RELEASE RIG @ 18:00 HRS ON 05/20/2011.

### New Holes

Wellbore No.	Hole Size (in)	Top MD (ft)	Btm MD (ft)	Start Date	End Date
00	24.000	103	606	02/09/2011 17:30	02/11/2011 03:30
00	17.500	606	2,375	02/14/2011 23:00	02/18/2011 10:00
00	12.250	2,375	10,000	02/24/2011 16:00	03/22/2011 08:30
00	8.500	10,000	13,182	04/11/2011 20:00	04/26/2011 14:00

### New Casing/Liner Strings

Size	Assembly Name	Installed	Wellbore No	Top MD (ft)	Btm MD (ft)
18.625	SURFACE CASING	02/12/2011	00	0	596
13.375	SURFACE CASING	02/20/2011	00	32	2,362
9.625	INTERMEDIATE CASING	04/07/2011	00	34	9,992
7.000	COMBO BLANK AND SLOTTED LINER	05/04/2011	00	9,648	13,174

Logs/surveys run?  Yes  No **If yes, list type(s) and depth(s)**

Log Date	Wellbore No.	Top MD (ft)	Btm MD (ft)	Distance Logged (ft)	Logging Tools
03/05/2011	00	2,362	5,710	3,348	TC-MDT
04/05/2011	00	3,800	10,000	6,200	SP-PLATEXP-AIT-FMI
04/27/2011	00	9,992	13,182	3,190	SONIC-FMI
04/28/2011	00	9,992	13,182	3,190	PLATEXP-DLL-SGR-GST
04/28/2011	00	31	9,992	9,961	USIT-CBL
05/01/2011	00	10,150	12,919	2,769	SW SAMP
05/02/2011	00	12,700	13,182	482	MRIL
05/08/2011	00	9,600	12,570	2,970	USIT-CBL-GR



# DOM-2

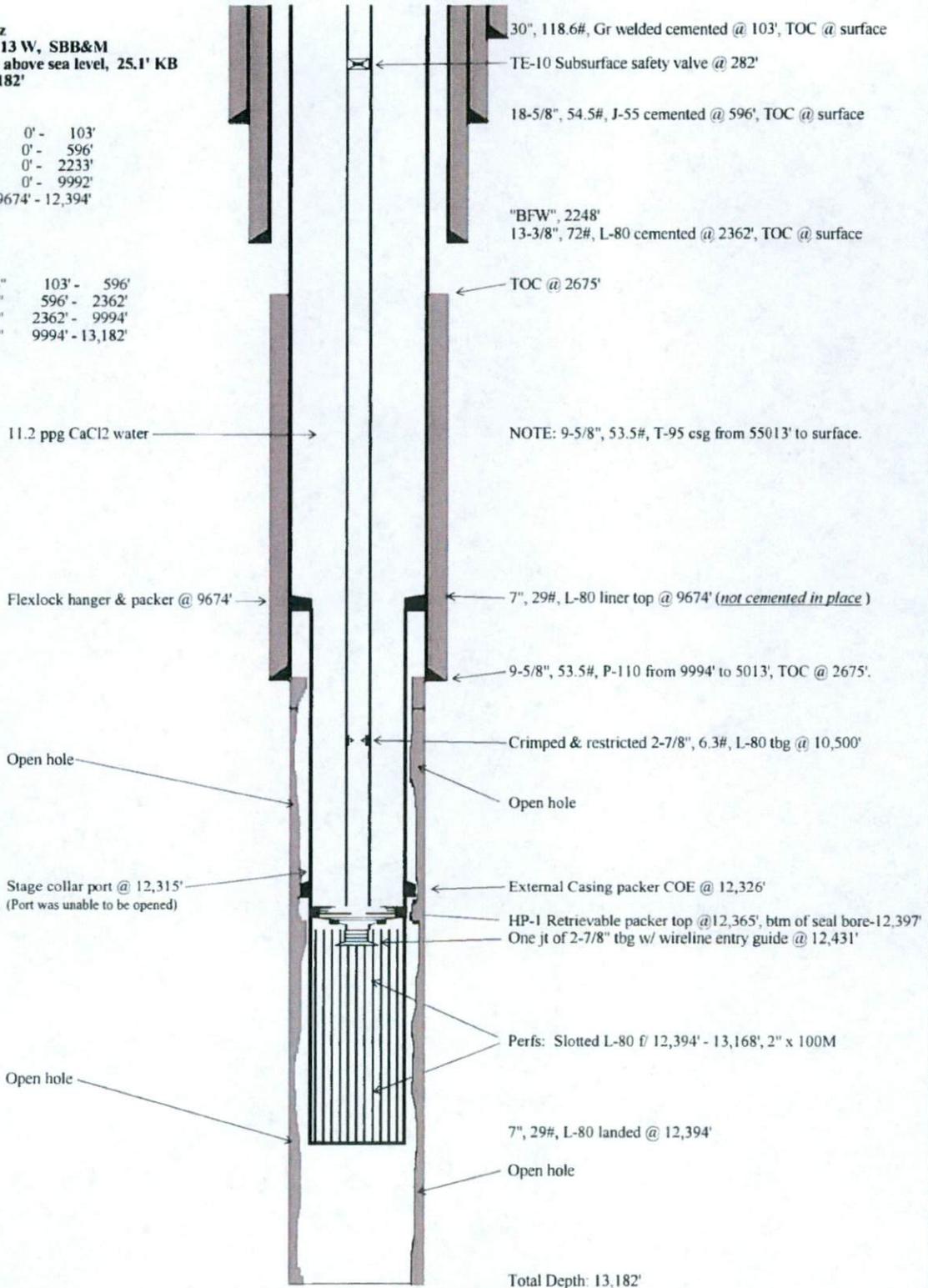
API# 037-27148

Field: Dominguez  
 Sec: 33, T3 S, R 13 W, SBB&M  
 Elevation: 168.7' above sea level, 25.1' KB  
 Total Depth: 13,182'

30", 118.5#	0' - 103'
18-5/8", 87.5#	0' - 596'
13-3/8", 72.0#	0' - 2233'
9-5/8", 53.5#	0' - 9992'
7", 29.0#	9674' - 12,394'

Hole Size:

24"	103' - 596'
17-1/2"	596' - 2362'
12-1/4"	2362' - 9994'
8-1/2"	9994' - 13,182'



Total Depth: 13,182'

CMP

## DOM-002 Proposed Rotary Side Wall Core Stations

## Actual recovery

Core #	Depth md (schlumberger referenced)	GR	Porosity (est)	FMI character	Pay Flag	Mudlog show	Core #	Depth	Length	Lithology	Shows
	First run (13044- 11713)										
1	13044	25		Cong?	n	n	Basement	20	13044	Empty	
2	12985	26		MB	n	n	Basement	21	12985	1-3/8"	Basement or schist conglomerate. Dk to med gray to green matrix with rounded to tabular metamorphic and quartz clasts to 1.5cm in size. Calcite veining. Core is still de-gassing though micro fractures.
3	12962	30		Cong?	y	y	Basement	22	12962	Empty	No show.
4	12954	26			y	y	Basement	23	12954	5/8"	Basement. Dark green fine grained vatrix with abundant epidote and a darker green waxy to translucent mineral. 1cm milky qtz pebble or vein and a rounded dark gray/black metamorphic clast 2ith abundant pyrite.
5	12947	31			y	y	Basement	24	12985	1-1/8"	Even dull yellow vis fluor is confined to the coarser grained marix. No cut fluor.
6	12935	25			y	y	Basement	25	12935	Empty	
7	12928			TB	n	y	Div F sh	26	12928	Empty	
8	12927			TB	n	y	Div F sh	27	12927	1-1/4"	Very hard, dk gray siliceous mudstone grading to very dirty siltstone to v. fn gr sandstone. Non-calcareous. Fair, non-interconnected, micro vuggy pin point porosity
9	12926			MB	n	y	Div F sh	28	12926	5/8"	Dark brownish siliceous mudstone. No trace of carbonate.
10	12925			MB	n	y	Div F sh	29	12925	1-3/16"	Dark to med brownish gray, very dirty, very fine to fine gr sandstone.
11	12924			TB	n	y	Div F sh	30	12924	1"	Dark to med brownish gray, dirty, very fine gr sandstone. Common non-interconnected pin point porosity.
12	12923			TB/F	n	y	Div F sh	31	12923	1-1/4"	Dark gray to black mudstone and med brownish-gray silty to v. fine gr sandstone. No vis. porosity.
13	12922			TB/F	n	y	Div F sh	32	12922	Empty	
14	12921			TB	n	y	Div F sh	33	12921	5/8"-frags	Dark brown silty mudstone
15	12920			TB	n	y	Div F sh	34	12920	1/2"	Dark brown mudstone. Non-calc.
16	12919			MB	n	y	Div F sh				
17	12918			MB	n	y	Div F sh				
18	12917			MB	n	y	Div F sh				
19	12916			TB	n	y	Div F sh				
20	12882	135	shale	MB	n	n	Div F sh				
21	12881	155	shale	TB	n	n	Div F sh				



22	12823.5	31	12.5	MB	y	n	Div F sh
23	12767	110	shale	MB	y	n	Div F sh
24	12763	80	13	MB	y	y	Div F sh
25	12571	41	8	OOP	y	y	Div F sh
26	12517	107	20	OOP	y	y	Div F sh
27	12513	81	11	OOP	n	y	Div F sh
28	12320	23		OOP	y	n	Div F
29	12182	24		VB	y	n	Div F
30	11713	27	18	VB	n	y	Div F

1	11713	3/4"	Bluish-gray vesicular volcanic rock. Tuffaceous matrix.	Poor pale yellow spotty fluor probably from mud.
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Second run (11432-10115 + repeat of any missed on first run)

31	11432	23	11	MB	y	n	Div F	2	11342	1-1/2"	dark, massive volcanic rock	Streaky pale yellow vis fluor with very faint bluish-wr fluor cut.
32	11390	25	11		y	n	Div F	3	11390	1-3/4"	Volcanic breccia. Tuffaceous matrix with rounded pebble sized clasts of volcanic rocks. Pebbles have a high pyrite content	Very spotty pale gold vis fluor (<2% of sample). Slo pale bluish-white fluor cut.
33	11350	47	13	MB	y	n	Nod Sh	4	11350	3/4"	Dark gray mudstone (off depth?) One fracture is open at several places along its length.	no show
34	11348	48	13	MB	y	n	Nod Sh	5	11348	1-1/4"	Dark gray mudstone (off depth?) Multiple sets of hairline fractures.	Spotty pale yellow vis fluor, no fluor cut, but with a pale bluish-white crush cut.
35	11326.5	195		TB	n	n	Nod Sh	6	11326.5	Empty		
36	11320.5	95		TB	n	n	Nod Sh	7	11320.5	broken pcs	Dark gray siliceous and calcareous mudstone. Passed phosphate test	no vis fluor or fluor cut. Very faint bluish-white fluor when sample is crushed.
37	11315	155		MB	n	n	Nod Sh	8	11315	Empty		
38	11314	95		TB	n	n	Nod Sh	9	11314	broken pcs	Dk browish-gray siliceous mudstone. Significant disemenated carbonate.	Spotty pale yellow smpi fluor and plae milky-white fluor cut.
39	11313	72		TB	y	n	Nod Sh	10	11313	Empty		
40	11312	142		MB	n	n	Nod Sh	11	11312	broken pcs	Black, hard siliceous shale. Positive phosphate test.	Bright gold fluor on some surfaces (fractures?). Inst very bright bluish-white fluor cut.
41	11168	80	16.5	MB	y	y	Div D	12	11168	1-1/4"	light gray, very hard, fine gr sandstone. Sub-ang., mod well sorted. No visible porosity	Bright gold vis fluor with instant very bright bluish-wr fluor cut and very faint pale straw visible cut.
42	11126	72	13	MB	n	y	Div D	13	11126	Two 1/2" pcs	Med gray, med grained, poorly std. sandstone. Sub ang to sub rnded.	Uneven to spotty med yellow vis fluor with mod bright bluish-white fluor cut and very pale straw cut.
43	10954	77	18	MB	n	y	Div D	14	10954	3/8"	hard, med gray fine gr biotitic sandstone	Even light yellow vis fluor with bright bluish-white fluor cut and light straw vis cut.
44	10926	111	shale	TB	n	n	Div D	15	10926	1-1/4"	dark gray, dirty siltstone with thin laminae of lighter dk gray somewhat cleaner siltstone.	Very faint dull yellow vis fluor in cleaner siltstone fac only. Very dull bluish-white cut fluor becoming slight brighter after crushing the sample.
45	10772	60	14	MB&F	n	y	Div D	16	10772	1-1/4"	med gray, upr cse grained sandstone. Very hard, mod sorting, sub-ang to sub-rounded grains.	Uneven pale yellow vis. Fluor with mod bright bluish white fluor cut. No vis cut
46	10757		15	TB&F	n	y	Div D	17	10757	Empty		
47	10638	41	11	MB&F	y	y	Div D	18	10638	Empty		
48	10550	72	14	TB	n	y	DIV C/D	19	10550	broken pcs	Fine-med grained friable sandstone	Dull yellow visible fluor. Bright bluish-white fluor cut Plase straw visible cut.
49	10532	48	12	MB	y	y	DIV C/D					
50	10376	65	19	MB	n	y	DIV C/D					
51	10198	60	15		y	y	DIV C/D					
52	10180.5		16	TB	y	y	DIV C/D					
53	10150	102	shale		n	y	DIV C/D					

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54	10123	17	MB	n	y	DIV C/D
55	10115	13	DIF	n	y	Div D/D

FMI descriptor definitions

MB	Massive bedded
TB	Thin bedded
VB	Volcanic breccia
Cong?	Conglomeratic?
F	Fractures noted
OOP	Oil On Pad. No interpretable data.
Blank	Not sure what to call it

Oxy Dominguez DOM-002. Core #7

Cut 9771 to 9823. Recovered 100% plus an extra 1.8'

Depth	Description	Shows
9771	Sandstone, Lt. gray, v. hard, lower medium to lower very cse grained. Poorly sorted, quartzose-feldspathic, biotitic. Calc. matrix.	No show.
9774	Sandstone, lt. gray, hard, very slightly friable, poorly sorted, lower medium to v. cse upper grain size with rare well rounded quartz pebbles. Clay matrix. No obvious porosity.	80% moderately bright yellowish gold sample fluorescence and instant moderately bright bluish-white cut flour. Very pale straw visible cut.
9777	Sandstone, light gray, hard, slightly friable, non-calc. upper fine to lower coarse grained. Occ. very cse. well rounded quartz grains.	70-80% pale yellow sample flour. Fast streaming mod. Bright pale bluish-white cut flour. Pale straw visible cut.
9780	Sandstone, medium gray, very hard, slightly calcareous. Upper medium to upper very coarse grained with a matrix of fine ss/sltst. Sub-ang to sub-rnded.	Trace sample flour. No flour cut.
9783	Sandstone, medium gray, very hard, upper coarse to upper very coarse grained. Moderately well sorted. No visible porosity.	10-50% variable dull yellow sample flour. Moderately fast streaming pale bluish-white cut flour. Very pale straw visible cut.
9786	Sandstone, medium gray, very hard, lower medium to upper very coarse grained. Sub-ang quartz and feldspar.	60-70% dull pale yellow sample flour. Streaming dull bluish-white cut flour. No visible cut.
9789	Sandstone, medium gray, hard. Vertically graded from upper fine/upper coarse to upper very coarse grained. One 1/2mm clay parting. Larger qtz grains are well rounded. Very poor visible porosity.	30-40% pale yellowish sample fluorescence. Streaming moderately bright bluish-white cut flour.
9792	Sandstone, light gray, hard, coarse upper to very coarse upper grain size. Pebbly in part. Slightly friable. Non-calcareous. Dominantly quartz with lesser sodic feldspar and biotite. Rare shale clasts.	50-70% dull yellow sample fluorescence. Instant to streaming moderately bright bluish-white cut flour. Pale straw visible cut. Somewhat darker than 9774' sample.
9794	Sandstone, med. gray, hard, upper fine to upper medium grained. Rare small qtz. pebbles and v. rare shale clasts. Poorly sorted, sub and to well rounded (pebble clasts), quartzose-feldspathic, biotitic. No vis. Porosity	30-40% dull yellow sample fluorescence. Fast streaming moderately bright bluish-white cut flour. No vis. cut.

9797	Sandstone, medium gray, hard, upper very fine to upper medium grain size. Moderate sorting. Sub-angular to sub-rounded. Non-calc.	90% pale yellowish gold sample fluor. Very fast streaming moderately bright bluish-white cut fluor. Very pale straw visible cut.
9800	Sandstone, medium gray, very hard, calcareous. Lower medium to lower coarse grained. Moderately well sorted. Sub-angular grains. One pyritic mudstone clast noted, all else is quartz, feldspar and biotite. No visible porosity.	Very pale dull yellow sample fluor. Streaming pale bluish-white cut fluor. No visible cut.
9803	Sandstone, medium gray, very hard, calcareous. Lower to upper medium grained. Well sorted, sub-angular. Very micaceous.	Trace pale yellowish sample fluor. Slow pale/dull bluish-white cut fluor. No visible cut.
9806	Siltstone/sandstone, brownish gray to medium gray, dirty, hard. Wispy laminations of finer material. Rare sub-ang to sub-rnded quartz grains to lower cse in grain size. Non-calc.	No show.
9809	Sandstone, medium gray, very hard, upper medium to upper very cse grained. Poorly sorted. The largest quartz grains are well rounded. Smaller grains are sub-ang to sub-rnded.	10-20% very pale dull yellow sample fluor. Streaming pale bluish-white cut fluor. No visible cut.
9812	Mudstone, medium to dark gray, laminated, non-calc., hard.	No visible fluor. Very faint bluish-white cut fluor. when crushed.
9815	Sandstone, medium gray, very hard, lower medium to lower coarse grained. Wispy clay partings, very calcareous.	30% pale yellow sample fluor. Streaming moderately bright pale bluish-white cut fluor. Faint pale straw cut.
9818	Sandstone, light gray, slightly friable, upper coarse to lower very coarse grained. Moderately well sorted, sub-ang to rounded. No visible porosity. Slightly calcareous.	Trace pale dull yellow sample fluor with streaming moderately bright bluish-white cut fluor. No visible cut.
9821	Sandstone, light gray, very hard, lower coarse to very coarse grained, moderately well sorted, sub-ang to sub-rnded. One fracture healed with calcite.	Trace dull yellow sample fluor. Streaming pale bluish-white cut fluor. No visible cut.
9824	Sandstone, medium gray, hard, lower medium to upper coarse grained. Poorly sorted, sub ang to sub rnded. Non to weakly calc.	30% very pale yellow sample fluor. Moderately bright streaming cut fluor. Very pale straw visible cut.
9824.8	Shale, black, slickensided with a high angle shear zone. This is what jammed the core barrel.	

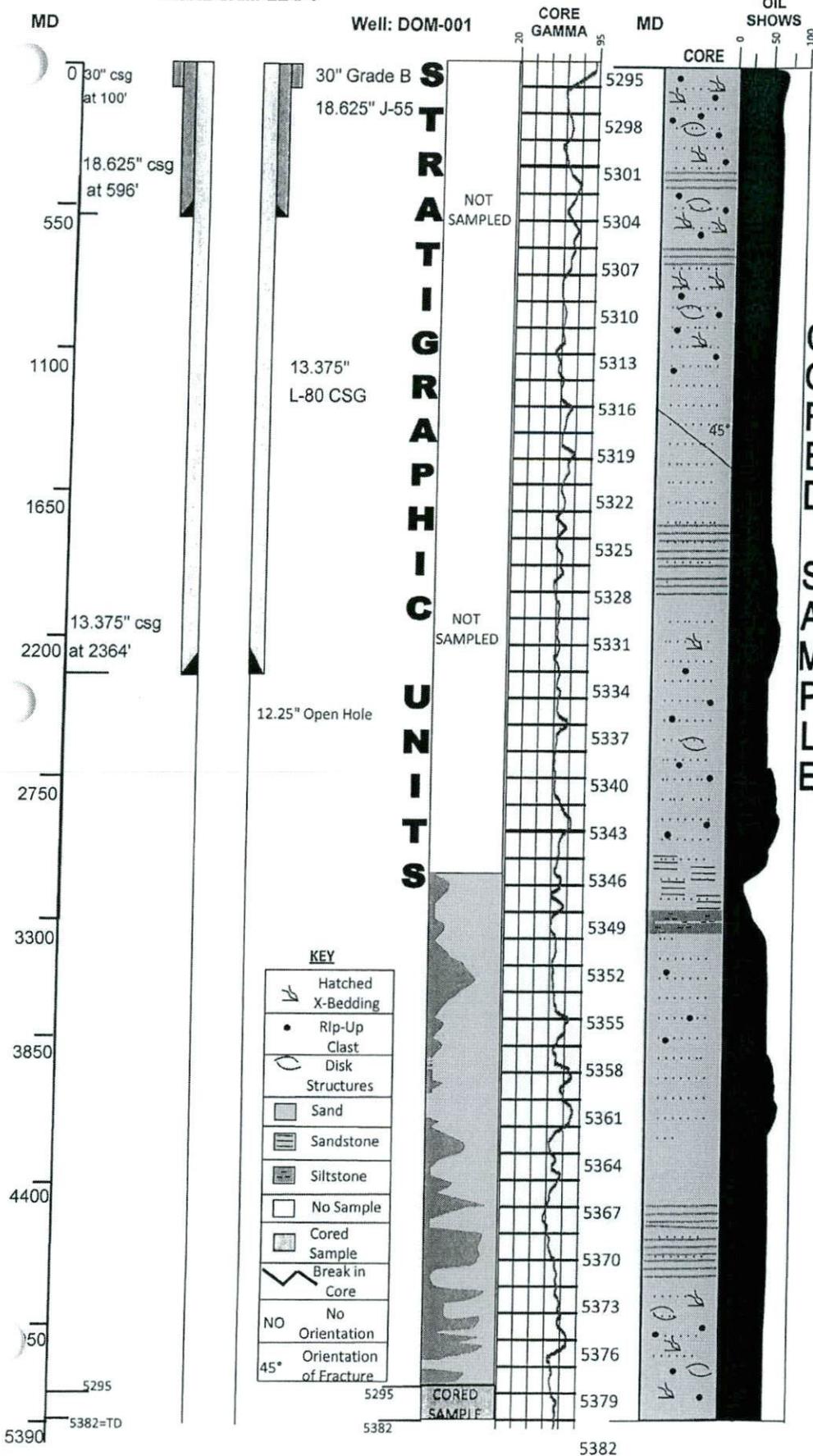
## DOM-002 Core #9. Core chip descriptions

12464	Basalt, dark gray, vesicular. From rubble at top of core. May not be in place.	No show.
12467	Shale, v. dk brownish-gray, v. hard, massive. Slickensided bedding surfaces. No fractures noted.	No vis. Fluor. No cut fluor, but dull bluish-white cut fluor when sample is crushed.
12470	Shale, medium-dark gray, siliceous, poorly bedded. Somewhat hackey texture. No vis. Fractures.	No vis. Fluor except for one 3mm layer at surface of chip. This with very faint, pale yellow fluor. No cut fluor, but dull bluish-white cut fluor when sample is crushed. Fainter than above sample.
12473	Shale, medium-dark gray, siliceous, poorly bedded. Somewhat hackey texture. No vis. Fractures.	No. fluorescence or cut fluor. Few blebs of black dead bitumen on surface.
12476	Shale, medium-dark gray, siliceous, poorly bedded. Somewhat hackey texture. No vis. Fractures. Slickensides on bedding surfaces.	No. fluorescence or cut fluor.
12479	Shale, medium-dark gray, siliceous, poorly bedded. Somewhat hackey texture. No vis. Fractures.	No. visible fluor. Pin point slow, streaming, bluish-white cut fluorescence.
12482	Sandstone, concrete gray in color, Mostly medium grained quartz with solid silica cement.	Dull yellow-gold sample fluor. With bluish-white cut fluor.
12485	Volcanic rock, medium-dark gray, siliceous tuff?	Spotty sample fluor and mod. Fast streaming dull bluish-white cut fluor.

## Core Actual

Date	Core Number	Hole Size	Top Depth	Bottom Depth	Cut	Recovered	Percent	Top Marker	Bottom Marker	Comment
01-Mar-2011	1	12.25	5295	5383	88	86	97.73%	BM + 5'	BO + 11'	Core Jammed
02-Mar-2011	2	12.25	5620	5710	90	90	100.00%	BX + 6'	BY + 6'	Ran E-logs after
03-Mar-2011	3	12.25	6542	6632	90	91.6	101.78%	CM - 14'	CN + 26'	
04-Mar-2011	4	12.25	6985	7047	62	62.4	100.65%	CQ + 48'	CQ + 100'	Core Jammed
05-Mar-2011	5	12.25	7047	7057	10	10	100.00%	CQ + 100'	CQ + 110'	Low ROP, could not cut
06-Mar-2011	6	12.25	7610	7700	90	93	103.33%	D + 53'	D + 141'	
07-Mar-2011	7	12.25	9771	9824	53	0	0.00%	Div C/D	Div C/D	Core Jammed
08-Mar-2011	8	8.5	11320	11344	24	4.5	18.75%	Nodular Shale	Nodular Shale	Core Jammed
09-Mar-2011	9	8.5	12464	12489	25	21	84.00%	Division F	Division F	Core Jammed

OXY USA Inc. DOM-002 Project  
CORE SAMPLE # 1



**DESCRIPTIONS**

Sand : Pred clr trnsi, milky cldy wht; fn-lo crs gr; prly srtid; sbmd-sbang; pred unconsol, tr consol; abd x-bdng (disc structures and cross hatching); abd lg rip-up clasts; pred qtz, fspar w/ tr lith frag, abd chlor altn; com v crs qtz gr prsnt thruout; oil stnd gr thruout; mod-hi petro odor; 100% brt yel spl fl; inst brt wht-blu spl cut fl; mod lt brwn-ambr vis cut; no free oil in spl.

Sand: Abd clr trnsi, milky cldy wht, com drk gry, r tr lt-dk gm; fn-med gr; sft-fm assoc w/siltstone; mod srtid; sbmd; abd x bdng structures observed com siltst lams w/ 5° bdng thruout; oil stnd gr; mod petro odor; sply brt yell spl fl; fst brt wht-blu spl cut fl; mod strng drk brwn-ambr vis cut; no free oil in spl.

Sand : pred clr trnsi, milky cldy wht; med-fn gr; v prly srtid; sbang; unconsol, tr consol; pred qtz, fspar w/ lith frag; abd v crs qtz gr prsnt thruout, tr grvl szd clsts; x bdng struc thruout; oil stnd gr thruout; mod petro odor; uni brt yel spl fl; inst brt wht-blu spl cut fl; mod hi drk brwn-ambr vis cut; no free oil in spl.

Note: 45° fracture/joint observed @ 5319'. No traped oil or lithology change observed associated with fracture.

Sand: abd clr trnsi, milky wht, com drk gry; fn-med gr; mod srtid; sbang-sbrndd; x bdng struc thruout; pred qtz, fspar w/ tr lith frag; com siltst lams w/ 5° bdng; oil stnd gr, hi petro odor; 100% brt yel spl fl; v fst brt wht-blu spl cut fl; hi drk brwn-ambr vis cut; no free oil in spl.

Sand: pred clr trnsi, milky wht; tr lt-dk gry; med-fn gr; com v crs gr thruout; prly srtid; sbang; rr siltst lams; pred unconsol, tr consol; pred qtz, fspar w/ tr lith frag; tr chlor altn; oil stnd gr; mod-hi petro odor; 100% brt yel spl fl; inst brt wht-blu spl cut fl; v hi drk brwn-ambr vis cut; no free oil in spl

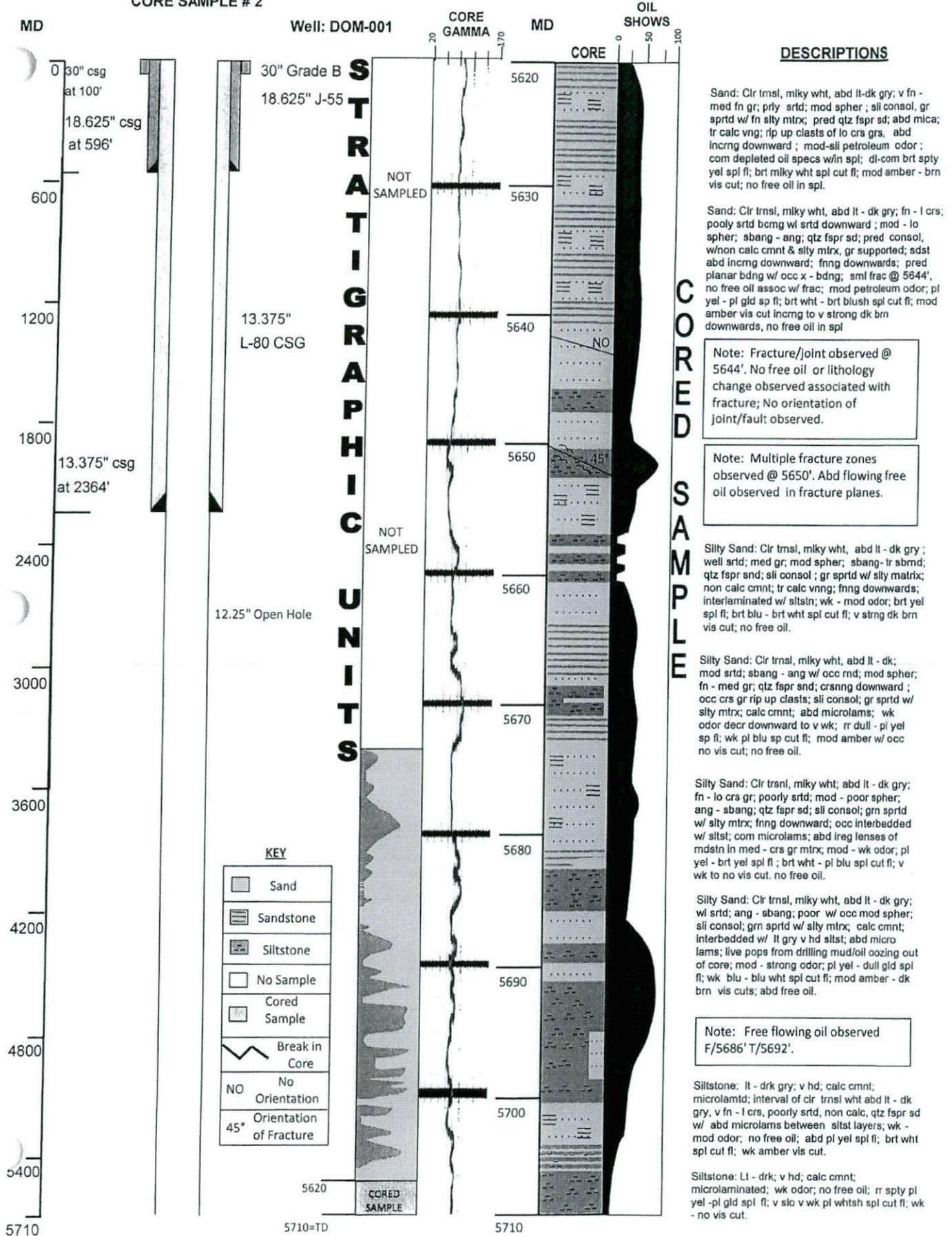
Sandstone: pred clr trnsi, milky wht; fn-med gr; mod srtid; sbrndd; v hd; v well cmntd; v calc cmnt; wk petro odor; v ptchy brt yel spl fl; v slo, v dull gld spl cut fl; no vis cut; no free oil in spl

Sand/Siltstone: clr trnsi, milky wht, abd drk gry; fn gr; mod hd; mod well srtid; sbrndd; hi spher; pred qtz, fspar snd; intrbdd w/ low sol, good cohes, firm siltst bnds 10mm thck, 5° bdng; abd siltst lams thruout; x bdng struc thruout; mod petro odor; ptchy brt yel spl fl; slo dull wht spl cut fl; no vis cut; no free oil in spl.

Sand: pred clr trnsi, milky cldy wht; fn-med gr; mod srtid; sbrnd; x bdng struc thruout; pred qtz, fspar w/ lith frag; mod-hi petro odor; oil stnd gr; 100% brt yel spl fl; inst brt wht-blu spl cut fl; hi drk brwn-ambr vis cut; no free oil in spl.

Sand: pred clr trnsi, milky wht, com drk gry; fn gr; sbrndd; mod well srtid; mod hd; abd alt sndst and siltst lams w/ 10° bdng; x bdng struc thruout; hi petro odor; oil stnd gr; ptchy brt yel spl fl; inst brt wht-blu spl cut fl; v lo vis cut; no free oil in spl.

Sand: clr trnsi, milky wht ovrl; med-fn gr; sbang; prly srtid; v crs qtz gr thruout; crsr twrds bas of unit; com rip up clsts; oil stnd gr; mod petro odor; 100% brt yel spl fl; inst brt wht-blu spl cut fl; mod brwn-ambr vis cut; no free oil in spl.



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Well: DOM-001

OIL SHOWS

**DESCRIPTIONS**

Note: Coring assembly stuck while pulling out of hole; Jars engaged twice; multiple breaks in fracture as a result of jarring on drill string.

Shale: drk gry-blk; v hd, brtl; calc cmnt; abd vis planer & conchoidal fracs in units; com siltstone laminations; strng- mod odor; no free oil in fractures; 100% pl yel spl fl; brt mlky wht -lt blu spl cut fl; wk amber vis cut.

Sand: Clr trnsf, mlky wht, abd lt-dk gry; v fn -lo crs gr; prly srtf; sli consol, gr sprtd w/ v fn sily mtrx, no calc cmnt observed; pred qtz fspr, com chloric alt; abd mlcr interbedding of dk gry siltstn; strng-fr petroleum odor; com depleted oil specs w/in spl; dl-com brt spty yel spl fl; brt mlky wht spl cut fl; mod amber - brn vis cut; no free oil in spl.

Sandstone: Clr trnsf, mlky wht; v fn - fn, com lo crs; poorly srtf bcng w/ srtf downward; mod - lo spher; sbang - ang; qtz fspr sd, tr blk glassy xln clasts; pred consol, w/non calc cmnt & sily mtrx, gr supported; abd v hrd calc siltstone; pred planar bdng w/ occ x - bdng; mod petroleum odor; pl yel - pl gld spl fl; brt wht - brt blush spl cut fl; mod amber vis cut incrg to v strong dk brn downwards, no free oil in spl.

Silty Sand: Clr trnsf, mlky wht, abd lt - dk gry; well srtf; med gr; sbang - tr sbrnd; qtz fspr snd w/ig rip up clasts; sli consol; gr sprtd w/ sily mtrx; non calc cmnt; tr calc vng; fngng downwards; interaminated w/ siltstn; wk - mod odor; brt yel spl fl; brt blu - brt wht spl cut fl; v strng dk brn vis cut; no free oil.

Silty Sand: Clr trnsf, mlky wht, abd lt - dk gry; w/ srtf; ang - sbang; sli consol; grn sprtd w/ sily mtrx; calc cmnt; interbedded w/ lt gry v hd siltst; abd micro lams; live pops from drilling mud/oil oozing out of core; mod - strong odor; pl yel - dull gld spl fl; wk - blu - blu wht spl cut fl; mod amber - dk brn vis cuts; abd free oil.

Note: Break in core observed @6602'; no displacement of core; heavily broken shale; tr free oil observed w/in fractures; no slickensides.

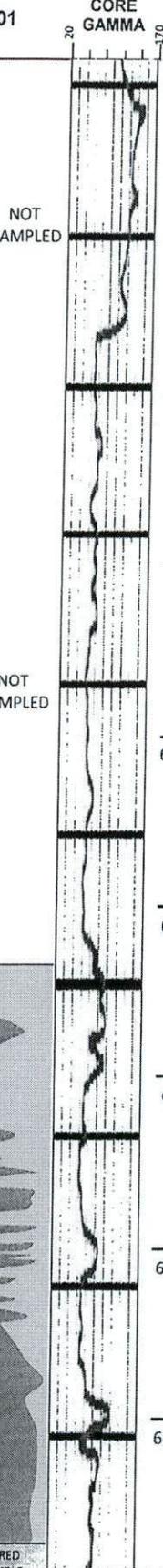
Silty Sand: Clr trnsf, mlky wht, tr lt gm, com dk gry-blk; fn - lo crs gr; poorly srtf; ang - sbang; sli consol; grn sprtd w/ sily mtrx; pred clr sb ang qtz, mlky wht sbrnd fspr, com lg rip up clasts; occ interbedded w/ siltst; com microlams; abd ireg lenses of mdstn in med - crs gr mtrx; mod - wk odor; pl yel - brt yel spl fl; brt wht - pl blu spl cut fl; v wk to no vis cut. no

Note: Free flowing oil observed F/5686' T/5692'.

Siltstone: Lt - drk; v hd, brtl; calc cmnt; microlaminated; wk odor; no free oil; rr spty pl yel - pl gld spl fl; v slo v wk pl whtsh spl cut fl; wk - no vis cut.

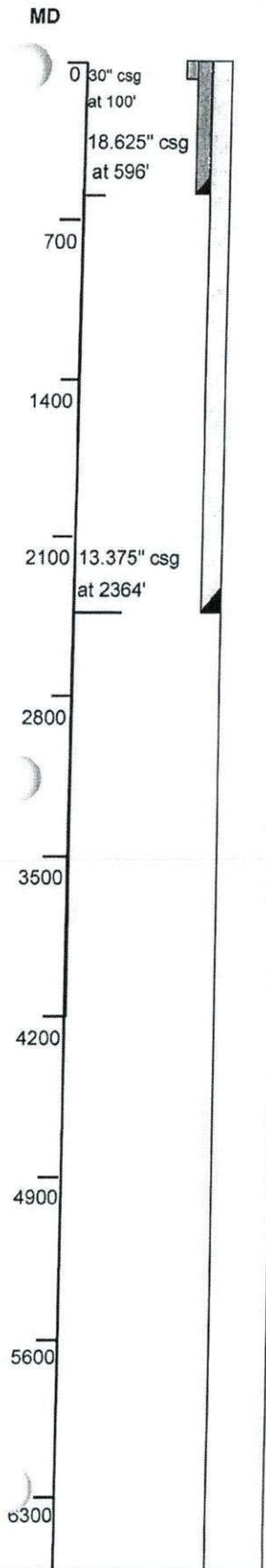
CORED SAMPLE

STRATIGRAPHIC UNITS



**KEY**

	Shale
	Sand
	Sandstone
	Siltstone
	No Sample
	Cored Sample
	Break in Core
	No Orientation
	Orientation of Fracture



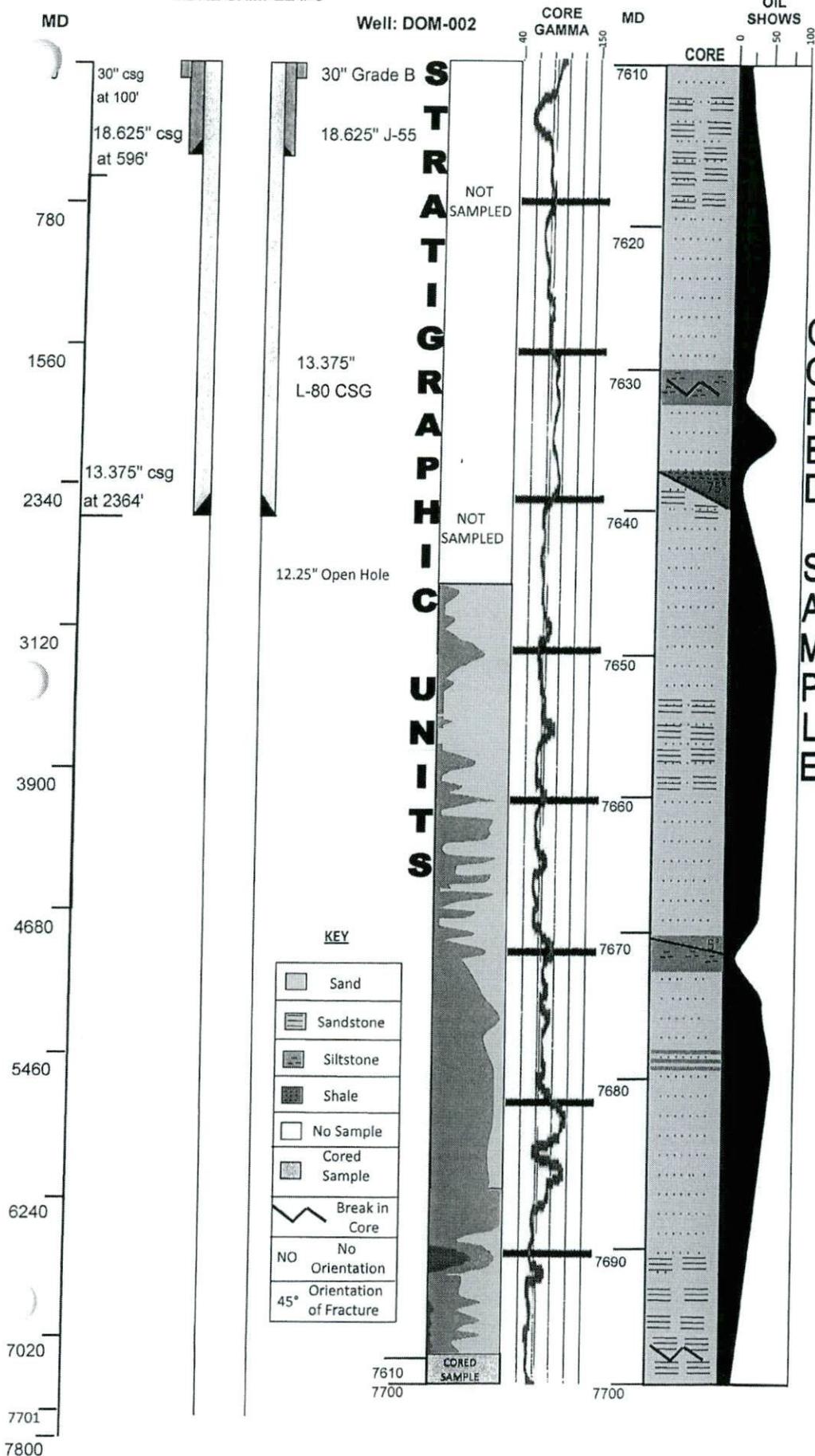
6633.6

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6636



OXY USA Inc. DOM-002 Project  
CORE SAMPLE # 5



**DESCRIPTIONS**

Sandstone: Pred clr transl, milky cloudy wht, tr blk trnsl; hd-v hd; fn-med gr w/ rr lo crs; sbang-sbrnd, occ rnd grs w/pr spher; pred gr sprtd w/slty mtrx, occ silcs cmnt, non calc; pred qtz, fspr, com glassy biot xls; mod strng petro odor, 100% pl yel-gld spl fl, lt grn spl fl @ 7618'; fst dl milky wht spl cut fl, slo straw vis cut; no free oil observed in spl.

Sand: Abd clr transl, milky cldy wht; fn-v fn; sbrnd-sbang; mod hd, sli consol, gr sprtd, non calc; mod well srtd; pred qtz/fspar snd w/ rr lith frag; no oil stnd gr; v wk petro odor; no free oil; v ptchy yelsh wht spl cut fl; v fnt transp straw vis cut.

Note: Multiple breaks in core observed F/7630' T/7633'. No free oil observed within fracture plane. No associated lithology change.

Note: 75° fault observed @ 7640'. No free oil present within fault plane. Lithology change from Shale to Sandstone.

Sand: clr transl, milky cldy wht, tr dk gry; fn-med gr; mod sft; pred sbang w/ com sbrnd; mod srtd; unconsol; oil stnd gr; mod petro odor; uni brt yelsh wht spl fl; inst brt milky wht-lt blu spl cut fl; mod-dk straw-amber vis cut.

Sandstone: pred clr transl, milky cldy wht, tr drk gry; fn-med gr; well srtd; v hd; v well cmntd; calc cmnt; sbang-sbrnd; consol; pred qtz/fspar snd w/ rr lith frags; no petro odor; v wk sply yel spl fl; no spl cut fl; no vis cut.

Sand: Abd clr transl, milky cldy wht; fn-v fn; sbrnd-sbang; mod hd, sli consol, gr sprtd, non calc; mod well srtd; pred qtz/fspar snd w/ rr lith frag; no oil stnd gr; v wk petro odor; no free oil; v ptchy yelsh wht spl cut fl; v fnt transp straw vis cut.

Siltstone: med-drk gry ovrl; v good fiss; thin lam; v fractured; 5° fault observed; dull earthy lstr; hckly frac, sli brtl; v hd; v wk petro odor; v wk v ptchy yel spl fl; brt lt blu spl cut fl; lt straw vis cut.

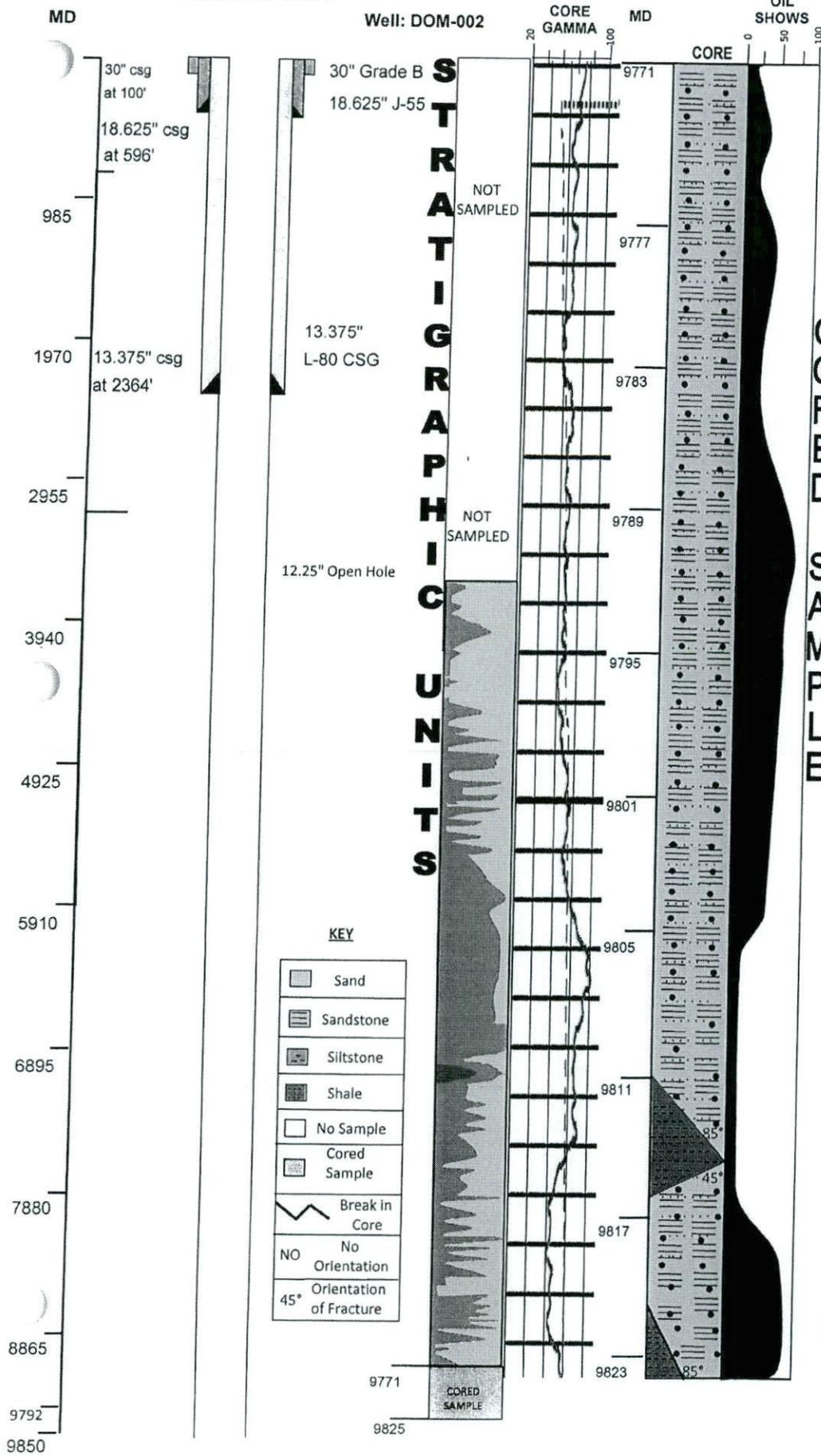
Sand: Abd clr transl, milky cldy wht; fn-v fn; sbrnd-sbang; mod hd, sli consol, gr sprtd, non calc; mod well srtd; pred qtz/fspar snd w/ rr lith frag, abd siltstone interbeds; no oil stnd gr; v wk petro odor; no free oil; v ptchy yelsh wht spl cut fl; v fnt transp straw vis cut.

Sandstone: clr transl, cldy wht, tr dk gry; fn-med gr; well srtd; mod hd; sli calc cmnt; sbang; occ 3-5° bng plns prsnt; pred qtz/fspar snd w/ rr lith frag; no petro odor; sply lt yel spl fl; wk milky wht spl cut fl; no vis cut.

CORED SAMPLE

**KEY**

	Sand
	Sandstone
	Siltstone
	Shale
	No Sample
	Cored Sample
	Break in Core
	No Orientation
	45° Orientation of Fracture



**DESCRIPTIONS**

Sandstone: Pred clr transl, milky cloudy wht, tr blk trnsl; hd-v hd; prly srted; fn-u crs gr; sbang-sbrnd, occ wl rnd grs w/mod spher; pred gr sprtd w/silty mtrx, occ silcs cmnt, non calc; pred qtz, fspr, com glassy biot xls; mod strng petro odor, 100% pl yel-gld spl fl, lt grn spl fl; inst dl milky wht spl cut fl, slo straw vis cut; tr free oil blebs observed while cutting

Sandstone: pred clr transl, milky cldy wht, tr drk gry; v fn-u crs gr; prly srted; v hd; gr sprtd, incr silty mtrx; non clac; sbang-sbrnd, abd lg wl rnd qtz/fspr grs; pred qtz/fspar, incr biot, rr lith frags; strng petro odor; tr oil stnd grs; spty yel spl fl; inst brt milky wht-lt blu spl cut fl; v fnt slo straw vis cut.

Sandstone: clr transl, cldy wht, tr dk gry; v fn-u crs gr; prly srted; v hd; non calc, gr sprtd; wl rnd- tr sbang; occ silic min filled frac; pred qtz/fspar snd w/ rr lith frag, decr biot; strng petro odor; lt yel spl fl; milky wht spl cut fl; slo straw vis cut.

Note: Free oil observed @ 9792 .

Sandstone: Abd clr, milky wht, tr blk trnsl; v fn-u crs gr; prly srted; v hd; gr sprtd w/silty mtrx; non clac; sbang-sbrnd, abd lg wl rnd qtz/fspr grs; pred qtz/fspar, incr biot, rr lith frags, com biot; sli petro odor; no oil stnd grs; spty yel spl fl; inst brt milky wht spl cut fl; v fnt slo straw vis cut; tr free oil observed.

Sandstone: Clr transl, milky cloudy wht, tr blk trnsl; hd-v hd; prly srted; fn-u crs gr; sbang-sbrnd, occ wl rnd grs w/mod spher; pred gr sprtd w/silty mtrx, occ silcs cmnt, non calc; pred qtz, fspr, com glassy biot xls; mod strng petro odor, 100% pl yel-gld spl fl, lt grn spl fl; inst dl milky wht spl cut fl, slo straw vis cut; tr free oil blebs observed while cutting spl; tr free oil observed.

Sandstone: clr transl, cldy wht, com blk trnsl; v fn-lo crs gr; prly srted; mod hd, crmbly; sli calc cmnt; sbrnd-sbang; decr in wl rnded clasts; pred qtz/fspar, com biot xls, rr lith frag; no petro odor; spty lt yel spl fl; wk milky wht spl cut fl; no vis cut; no free oil.

Note: 2 faults observed @ 9812' & 9815' @ 85° & 45° respectively. No free oil present within fault planes. Lithology change from Sandstone to Shale to Sandstone.

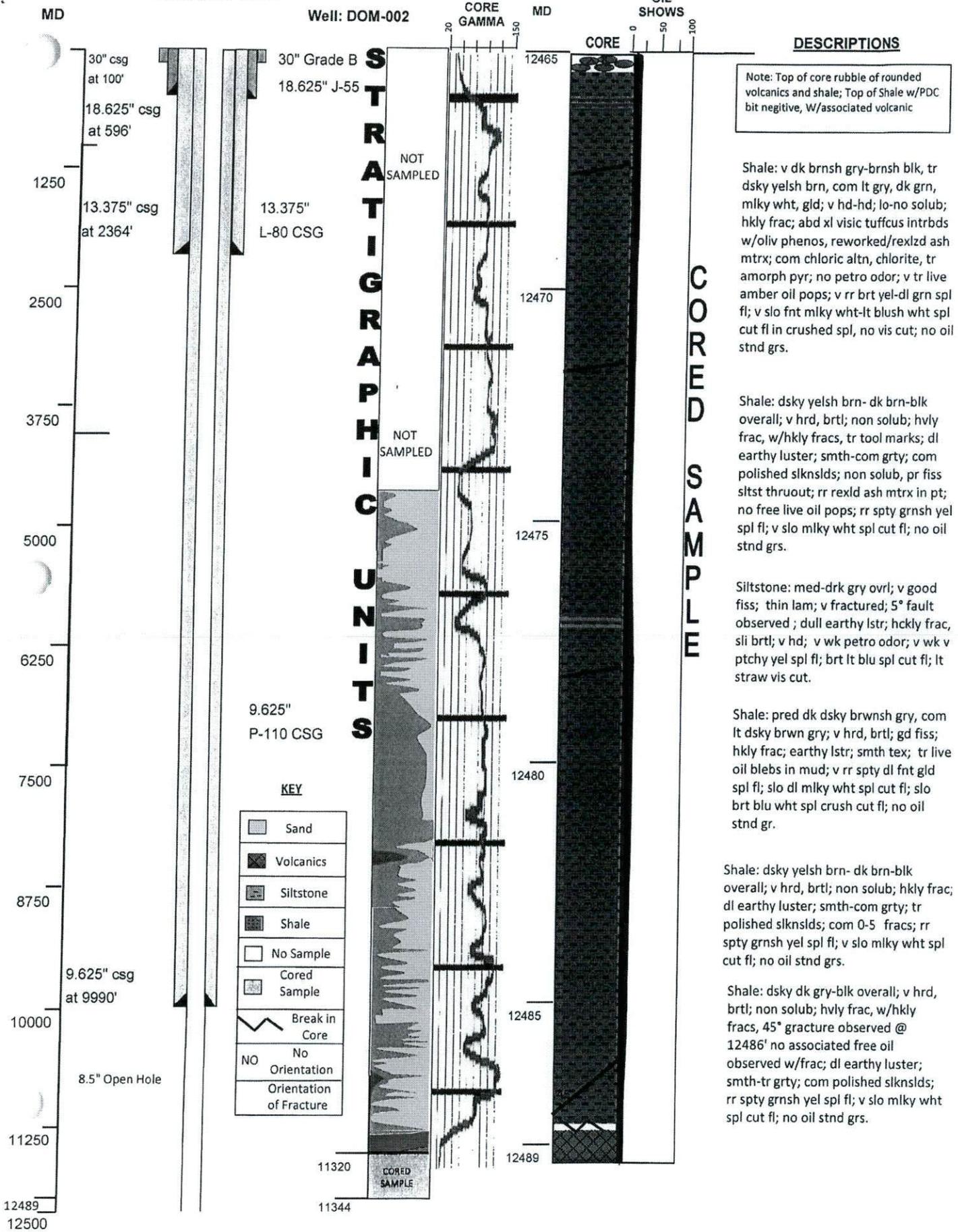
Shale: med-drk gry ovrl; v good fiss; thin lam; undult bdng; dull earthy lstr; hckly frac, sli brt; hd; faulted thruout; v wk petro odor; v wk v ptchy yel spl fl; v fnt spl cut fl; no vis cut.

Note: 85° fault observed @ 9823'. Free oil present within fault plane. Lithology change from Shale to Sandstone.

CORED SAMPLE



6\*



Note: Top of core rubble of rounded volcanics and shale; Top of Shale w/PDC bit negative, W/associated volcanic

Shale: v dk brnsh gry-brnsh blk, tr dsky yelsh brn, com lt gry, dk grn, mlky wht, gld; v hd-hd; lo-no solub; hkly frac; abd xl visic tuffcus intrbds w/oliv phenos, reworked/rexldz ash mtrx; com chloric altn, chlorite, tr amorph pyr; no petro odor; v tr live amber oil pops; v rr brt yel-dl grn spl fl; v slo fnt mlky wht-lt blush wht spl cut fl in crushed spl, no vis cut; no oil stnd grs.

Shale: dsky yelsh brn- dk brn-blk overall; v hrd, brtl; non solub; hvly frac, w/hkly fracs, tr tool marks; dl earthy luster; smth-com grty; com polished slknslds; non solub, pr fiss sltst thruout; rr rexld ash mtrx in pt; no free live oil pops; rr spty grnsh yel spl fl; v slo mlky wht spl cut fl; no oil stnd grs.

Siltstone: med-drk gry ovrl; v good fiss; thin lam; v fractured; 5° fault observed; dull earthy lstr; hckly frac, sli brtl; v hd; v wk petro odor; v wk v ptchy yel spl fl; br lt blu spl cut fl; lt straw vis cut.

Shale: pred dk dsky brwnsh gry, com lt dsky brwn gry; v hrd, brtl; gd fiss; hkly frac; earthy lstr; smth tex; tr live oil blebs in mud; v rr spty dl fnt gld spl fl; slo dl mlky wht spl cut fl; slo brt blu wht spl crush cut fl; no oil stnd gr.

Shale: dsky yelsh brn- dk brn-blk overall; v hrd, brtl; non solub; hkly frac; dl earthy luster; smth-com grty; tr polished slknslds; com 0-5 fracs; rr spty grnsh yel spl fl; v slo mlky wht spl cut fl; no oil stnd grs.

Shale: dsky dk gry-blk overall; v hrd, brtl; non solub; hvly frac, w/hkly fracs, 45° gracture observed @ 12486'; no associated free oil observed w/frac; dl earthy luster; smth-tr grty; com polished slknslds; rr spty grnsh yel spl fl; v slo mlky wht spl cut fl; no oil stnd grs.

CORED SAMPLE

STRATIGRAPHIC UNITS

**KEY**

	Sand
	Volcanics
	Siltstone
	Shale
	No Sample
	Cored Sample
	Break in Core
	No Orientation
	Orientation of Fracture

# **OXY USA LA BASIN**

**DOMINGUEZ  
REYES LANDS LEASE  
DOM-002 - Slot Slot E  
DOM-002 (Eastern Prospect)  
ORIG HOLE**

**Design: Actual**

## **Survey Report - Geographic**

**01 April, 2013**



**Oxy**  
Survey Report - Geographic

<b>Company:</b>	OXY USA LA BASIN	<b>Local Co-ordinate Reference:</b>	Well DOM-002 - Slot Slot E
<b>Project:</b>	DOMINGUEZ	<b>TVD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Site:</b>	REYES LANDS LEASE	<b>MD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Well:</b>	DOM-002	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIG HOLE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	LGPSP

<b>Project</b>	DOMINGUEZ, North America, DOMINGUEZ		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	California VII 407		

<b>Site</b>	REYES LANDS LEASE				
<b>Site Position:</b>		<b>Northing:</b>	4,062,745.00 usft	<b>Latitude:</b>	33° 51' 48.600 N
<b>From:</b>	Map	<b>Easting:</b>	4,213,783.00 usft	<b>Longitude:</b>	118° 14' 38.759 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	0.000 in	<b>Grid Convergence:</b>	0.05 °

<b>Well</b>	DOM-002 - Slot Slot E, 1903010000					
<b>Well Position</b>	<b>+N-S</b>	0.0 ft	<b>Northing:</b>	4,062,757.50 usft	<b>Latitude:</b>	33° 51' 48.721 N
	<b>+E-W</b>	0.0 ft	<b>Easting:</b>	4,214,076.80 usft	<b>Longitude:</b>	118° 14' 35.275 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	164.3 ft	<b>Ground Level:</b>	169.0 ft

<b>Wellbore</b>	ORIG HOLE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	4/5/2010	12.72	58.73	47,520

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	42.85	

<b>Survey Program</b>	Date 4/1/2013				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
25.0	585.0	Survey #2- (ORIG HOLE)	Gyro MS - Keeper	Gyro Multishot	
630.0	1,068.0	Survey #3- (ORIG HOLE)	Gyro SS - Keeper	Gyro Single Shot	
1,110.0	13,182.0	Survey #4- (ORIG HOLE)	MWD - LongNM		

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Map Northing (usft)</b>	<b>Map Easting (usft)</b>	<b>Latitude</b>	<b>Longitude</b>	
0.0	0.00	0.00	0.0	0.0	0.0	4,062,757.50	4,214,076.80	33° 51' 48.721 N	118° 14' 35.275 W	
25.0	0.12	54.53	25.0	0.0	0.0	4,062,757.52	4,214,076.82	33° 51' 48.721 N	118° 14' 35.275 W	
50.0	0.24	54.78	50.0	0.1	0.1	4,062,757.56	4,214,076.89	33° 51' 48.722 N	118° 14' 35.274 W	
75.0	0.22	81.87	75.0	0.1	0.2	4,062,757.60	4,214,076.98	33° 51' 48.722 N	118° 14' 35.273 W	
100.0	0.25	106.95	100.0	0.1	0.3	4,062,757.59	4,214,077.08	33° 51' 48.722 N	118° 14' 35.272 W	
125.0	0.27	86.97	125.0	0.1	0.4	4,062,757.58	4,214,077.19	33° 51' 48.722 N	118° 14' 35.270 W	
150.0	0.32	71.15	150.0	0.1	0.5	4,062,757.60	4,214,077.31	33° 51' 48.722 N	118° 14' 35.269 W	
175.0	0.33	110.57	175.0	0.1	0.6	4,062,757.60	4,214,077.45	33° 51' 48.722 N	118° 14' 35.267 W	

**Oxy**  
Survey Report - Geographic

<b>Company:</b>	OXY USA LA BASIN	<b>Local Co-ordinate Reference:</b>	Well DOM-002 - Slot Slot E
<b>Project:</b>	DOMINGUEZ	<b>TVD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Site:</b>	REYES LANDS LEASE	<b>MD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Well:</b>	DOM-002	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIG HOLE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	LGPSP

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
200.0	0.49	140.21	200.0	0.0	0.8	4,062,757.49	4,214,077.58	33° 51' 48.721 N	118° 14' 35.266 W
225.0	0.38	144.36	225.0	-0.2	0.9	4,062,757.34	4,214,077.70	33° 51' 48.719 N	118° 14' 35.264 W
250.0	0.27	151.88	250.0	-0.3	1.0	4,062,757.22	4,214,077.78	33° 51' 48.718 N	118° 14' 35.263 W
275.0	0.31	160.72	275.0	-0.4	1.0	4,062,757.11	4,214,077.83	33° 51' 48.717 N	118° 14' 35.263 W
300.0	0.36	167.21	300.0	-0.5	1.1	4,062,756.97	4,214,077.87	33° 51' 48.716 N	118° 14' 35.262 W
325.0	0.39	174.52	325.0	-0.7	1.1	4,062,756.81	4,214,077.89	33° 51' 48.714 N	118° 14' 35.262 W
350.0	0.40	182.31	350.0	-0.9	1.1	4,062,756.63	4,214,077.90	33° 51' 48.712 N	118° 14' 35.262 W
375.0	0.50	183.78	375.0	-1.1	1.1	4,062,756.44	4,214,077.89	33° 51' 48.710 N	118° 14' 35.262 W
400.0	0.61	184.72	400.0	-1.3	1.1	4,062,756.20	4,214,077.87	33° 51' 48.708 N	118° 14' 35.262 W
425.0	0.52	181.18	425.0	-1.6	1.1	4,062,755.95	4,214,077.85	33° 51' 48.706 N	118° 14' 35.263 W
450.0	0.44	176.00	450.0	-1.8	1.1	4,062,755.74	4,214,077.86	33° 51' 48.704 N	118° 14' 35.262 W
475.0	0.59	188.29	475.0	-2.0	1.0	4,062,755.52	4,214,077.85	33° 51' 48.701 N	118° 14' 35.263 W
500.0	0.70	192.86	500.0	-2.3	1.0	4,062,755.24	4,214,077.79	33° 51' 48.699 N	118° 14' 35.263 W
525.0	0.70	189.61	525.0	-2.6	0.9	4,062,754.94	4,214,077.74	33° 51' 48.696 N	118° 14' 35.264 W
550.0	0.69	186.31	550.0	-2.9	0.9	4,062,754.64	4,214,077.69	33° 51' 48.693 N	118° 14' 35.264 W
575.0	0.69	182.99	575.0	-3.2	0.9	4,062,754.34	4,214,077.67	33° 51' 48.690 N	118° 14' 35.265 W
585.0	0.69	181.66	585.0	-3.3	0.9	4,062,754.22	4,214,077.66	33° 51' 48.688 N	118° 14' 35.265 W
630.0	1.49	183.48	630.0	-4.1	0.8	4,062,753.37	4,214,077.62	33° 51' 48.680 N	118° 14' 35.265 W
660.0	1.64	174.66	660.0	-5.0	0.8	4,062,752.55	4,214,077.64	33° 51' 48.672 N	118° 14' 35.265 W
691.0	1.63	162.03	690.9	-5.8	1.0	4,062,751.69	4,214,077.81	33° 51' 48.663 N	118° 14' 35.263 W
721.0	1.80	147.81	720.9	-6.6	1.4	4,062,750.88	4,214,078.20	33° 51' 48.655 N	118° 14' 35.259 W
752.0	1.98	138.88	751.9	-7.4	2.0	4,062,750.07	4,214,078.81	33° 51' 48.647 N	118° 14' 35.251 W
781.0	2.36	123.52	780.9	-8.1	2.8	4,062,749.36	4,214,079.64	33° 51' 48.640 N	118° 14' 35.241 W
815.0	3.03	110.23	814.9	-8.8	4.3	4,062,748.66	4,214,081.06	33° 51' 48.633 N	118° 14' 35.225 W
846.0	3.68	99.96	845.8	-9.3	6.0	4,062,748.21	4,214,082.81	33° 51' 48.629 N	118° 14' 35.204 W
877.0	4.36	91.17	876.7	-9.5	8.2	4,062,748.01	4,214,084.97	33° 51' 48.627 N	118° 14' 35.178 W
910.0	4.90	83.62	909.6	-9.4	10.8	4,062,748.14	4,214,087.62	33° 51' 48.628 N	118° 14' 35.147 W
945.0	5.52	79.70	944.5	-8.9	14.0	4,062,748.61	4,214,090.77	33° 51' 48.633 N	118° 14' 35.110 W
976.0	6.29	75.27	975.3	-8.2	17.1	4,062,749.31	4,214,093.88	33° 51' 48.640 N	118° 14' 35.073 W
1,006.0	7.17	70.93	1,005.1	-7.2	20.4	4,062,750.34	4,214,097.23	33° 51' 48.650 N	118° 14' 35.033 W
1,036.0	8.21	68.19	1,034.8	-5.8	24.2	4,062,751.75	4,214,100.99	33° 51' 48.664 N	118° 14' 34.988 W
1,068.0	9.06	64.92	1,066.5	-3.8	28.6	4,062,753.66	4,214,105.40	33° 51' 48.683 N	118° 14' 34.936 W
1,110.0	10.48	63.74	1,107.9	-0.7	35.0	4,062,756.76	4,214,111.82	33° 51' 48.713 N	118° 14' 34.860 W
1,141.0	11.64	62.59	1,138.3	1.9	40.3	4,062,759.44	4,214,117.12	33° 51' 48.740 N	118° 14' 34.797 W
1,173.0	12.88	62.66	1,169.6	5.1	46.4	4,062,762.57	4,214,123.16	33° 51' 48.771 N	118° 14' 34.725 W
1,204.0	14.01	63.10	1,199.7	8.4	52.8	4,062,765.85	4,214,129.57	33° 51' 48.803 N	118° 14' 34.649 W
1,236.0	14.74	63.87	1,230.7	11.9	59.9	4,062,769.40	4,214,136.68	33° 51' 48.838 N	118° 14' 34.565 W
1,268.0	15.70	64.62	1,261.6	15.5	67.4	4,062,773.05	4,214,144.25	33° 51' 48.874 N	118° 14' 34.475 W
1,300.0	16.84	64.05	1,292.3	19.4	75.5	4,062,776.93	4,214,152.33	33° 51' 48.912 N	118° 14' 34.379 W
1,332.0	18.07	64.44	1,322.8	23.6	84.2	4,062,781.10	4,214,160.97	33° 51' 48.954 N	118° 14' 34.277 W
1,362.0	18.99	65.05	1,351.3	27.7	92.8	4,062,785.17	4,214,169.60	33° 51' 48.994 N	118° 14' 34.174 W
1,394.0	19.95	65.20	1,381.4	32.2	102.5	4,062,789.65	4,214,179.27	33° 51' 49.038 N	118° 14' 34.060 W
1,426.0	21.19	65.80	1,411.4	36.8	112.7	4,062,794.31	4,214,189.50	33° 51' 49.084 N	118° 14' 33.938 W
1,457.0	21.91	65.67	1,440.2	41.5	123.1	4,062,798.99	4,214,199.88	33° 51' 49.130 N	118° 14' 33.815 W
1,489.0	22.74	66.08	1,469.8	46.5	134.2	4,062,803.96	4,214,210.98	33° 51' 49.179 N	118° 14' 33.683 W
1,520.0	22.83	66.17	1,498.4	51.3	145.2	4,062,808.82	4,214,221.96	33° 51' 49.227 N	118° 14' 33.553 W
1,552.0	23.09	66.80	1,527.9	56.3	156.6	4,062,813.80	4,214,233.40	33° 51' 49.277 N	118° 14' 33.417 W
1,583.0	23.42	67.42	1,556.4	61.1	167.9	4,062,818.56	4,214,244.68	33° 51' 49.324 N	118° 14' 33.284 W
1,615.0	23.98	66.69	1,585.7	66.1	179.7	4,062,823.58	4,214,256.52	33° 51' 49.373 N	118° 14' 33.143 W
1,646.0	24.79	65.77	1,613.9	71.2	191.4	4,062,828.74	4,214,268.23	33° 51' 49.424 N	118° 14' 33.004 W
1,677.0	25.06	66.33	1,642.0	76.5	203.4	4,062,834.04	4,214,280.17	33° 51' 49.476 N	118° 14' 32.863 W
1,709.0	24.84	66.43	1,671.0	81.9	215.7	4,062,839.45	4,214,292.54	33° 51' 49.530 N	118° 14' 32.716 W
1,740.0	25.18	65.82	1,699.1	87.3	227.7	4,062,844.75	4,214,304.52	33° 51' 49.582 N	118° 14' 32.574 W

**Oxy**  
Survey Report - Geographic

<b>Company:</b>	OXY USA LA BASIN	<b>Local Co-ordinate Reference:</b>	Well DOM-002 - Slot Slot E
<b>Project:</b>	DOMINGUEZ	<b>TVD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev. 25.12', GL: 168.97')
<b>Site:</b>	REYES LANDS LEASE	<b>MD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev. 25.12', GL: 168.97')
<b>Well:</b>	DOM-002	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIG HOLE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	LGSPSP

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,772.0	25.78	65.26	1,728.0	93.0	240.3	4,062,850.45	4,214,317.05	33° 51' 49.638 N	118° 14' 32.425 W
1,803.0	25.99	63.96	1,755.9	98.8	252.5	4,062,856.26	4,214,329.28	33° 51' 49.696 N	118° 14' 32.280 W
1,835.0	26.60	63.69	1,784.6	105.0	265.2	4,062,862.51	4,214,342.00	33° 51' 49.757 N	118° 14' 32.129 W
1,866.0	27.01	64.26	1,812.3	111.1	277.8	4,062,868.64	4,214,354.56	33° 51' 49.818 N	118° 14' 31.980 W
1,898.0	27.60	64.42	1,840.7	117.5	291.0	4,062,875.00	4,214,367.80	33° 51' 49.881 N	118° 14' 31.823 W
1,929.0	28.26	64.43	1,868.1	123.8	304.1	4,062,881.27	4,214,380.89	33° 51' 49.943 N	118° 14' 31.668 W
1,961.0	29.00	64.16	1,896.2	130.4	317.9	4,062,887.92	4,214,394.71	33° 51' 50.008 N	118° 14' 31.504 W
1,993.0	29.84	64.17	1,924.0	137.3	332.1	4,062,894.77	4,214,408.86	33° 51' 50.076 N	118° 14' 31.336 W
2,025.0	30.81	63.86	1,951.7	144.3	346.6	4,062,901.85	4,214,423.38	33° 51' 50.146 N	118° 14' 31.164 W
2,056.0	31.70	64.36	1,978.2	151.4	361.0	4,062,908.87	4,214,437.85	33° 51' 50.215 N	118° 14' 30.992 W
2,087.0	32.62	64.87	2,004.4	158.4	376.0	4,062,915.94	4,214,452.76	33° 51' 50.285 N	118° 14' 30.815 W
2,119.0	33.18	66.10	2,031.3	165.7	391.8	4,062,923.15	4,214,468.57	33° 51' 50.356 N	118° 14' 30.628 W
2,151.0	33.73	67.69	2,058.0	172.6	408.0	4,062,930.08	4,214,484.80	33° 51' 50.425 N	118° 14' 30.435 W
2,181.0	33.77	69.00	2,082.9	178.7	423.5	4,062,936.23	4,214,500.29	33° 51' 50.485 N	118° 14' 30.251 W
2,213.0	33.93	70.26	2,109.5	184.9	440.2	4,062,942.43	4,214,516.99	33° 51' 50.547 N	118° 14' 30.053 W
2,244.0	33.61	71.06	2,135.3	190.6	456.5	4,062,948.14	4,214,533.25	33° 51' 50.603 N	118° 14' 29.860 W
2,266.6	33.42	71.39	2,154.1	194.7	468.3	4,062,952.15	4,214,545.07	33° 51' 50.642 N	118° 14' 29.720 W
<b>BFW (Estimated)</b>									
2,276.0	33.34	71.53	2,162.0	196.3	473.2	4,062,953.80	4,214,549.97	33° 51' 50.659 N	118° 14' 29.662 W
2,307.0	34.16	71.63	2,187.7	201.7	489.5	4,062,959.24	4,214,566.31	33° 51' 50.712 N	118° 14' 29.468 W
2,400.0	34.71	71.82	2,264.4	218.2	539.4	4,062,975.73	4,214,616.25	33° 51' 50.875 N	118° 14' 28.876 W
2,494.0	34.43	72.33	2,341.8	234.6	590.2	4,062,992.15	4,214,666.99	33° 51' 51.037 N	118° 14' 28.274 W
2,589.0	34.54	69.97	2,420.1	252.0	641.1	4,063,009.52	4,214,717.89	33° 51' 51.208 N	118° 14' 27.670 W
2,683.0	34.83	66.85	2,497.4	271.7	690.8	4,063,029.21	4,214,767.61	33° 51' 51.403 N	118° 14' 27.080 W
2,778.0	35.40	67.03	2,575.2	293.1	741.1	4,063,050.61	4,214,817.89	33° 51' 51.614 N	118° 14' 26.484 W
2,873.0	36.21	66.76	2,652.2	314.9	792.2	4,063,072.42	4,214,869.01	33° 51' 51.829 N	118° 14' 25.878 W
2,967.0	36.08	66.26	2,728.1	337.0	843.1	4,063,094.52	4,214,919.86	33° 51' 52.048 N	118° 14' 25.274 W
3,061.0	35.90	66.48	2,804.2	359.2	893.7	4,063,116.66	4,214,970.46	33° 51' 52.266 N	118° 14' 24.674 W
3,156.0	36.65	66.07	2,880.8	381.8	945.1	4,063,139.28	4,215,021.92	33° 51' 52.489 N	118° 14' 24.064 W
3,251.0	36.60	66.00	2,957.0	404.8	996.9	4,063,162.30	4,215,073.71	33° 51' 52.717 N	118° 14' 23.449 W
3,345.0	36.36	65.78	3,032.6	427.6	1,047.9	4,063,185.13	4,215,124.72	33° 51' 52.942 N	118° 14' 22.844 W
3,439.0	36.19	65.97	3,108.4	450.4	1,098.7	4,063,207.86	4,215,175.48	33° 51' 53.166 N	118° 14' 22.242 W
3,534.0	35.67	65.91	3,185.3	473.1	1,149.6	4,063,230.59	4,215,226.38	33° 51' 53.391 N	118° 14' 21.638 W
3,629.0	36.14	65.90	3,262.2	495.8	1,200.4	4,063,253.33	4,215,277.24	33° 51' 53.615 N	118° 14' 21.035 W
3,723.0	36.15	66.39	3,338.1	518.3	1,251.1	4,063,275.76	4,215,327.94	33° 51' 53.837 N	118° 14' 20.433 W
3,818.0	35.37	66.54	3,415.2	540.4	1,302.0	4,063,297.93	4,215,378.84	33° 51' 54.056 N	118° 14' 19.829 W
3,912.0	32.12	65.39	3,493.4	561.7	1,349.7	4,063,319.17	4,215,426.53	33° 51' 54.265 N	118° 14' 19.264 W
4,007.0	31.84	65.63	3,574.0	582.5	1,395.5	4,063,340.03	4,215,472.32	33° 51' 54.471 N	118° 14' 18.720 W
4,102.0	31.34	65.92	3,654.9	602.9	1,440.9	4,063,360.45	4,215,517.70	33° 51' 54.673 N	118° 14' 18.182 W
4,196.0	29.14	63.93	3,736.1	623.0	1,483.8	4,063,380.48	4,215,560.58	33° 51' 54.871 N	118° 14' 17.673 W
4,291.0	26.28	61.81	3,820.2	643.1	1,523.1	4,063,400.59	4,215,599.90	33° 51' 55.069 N	118° 14' 17.207 W
4,385.0	24.88	60.17	3,905.0	662.8	1,558.6	4,063,420.26	4,215,635.40	33° 51' 55.263 N	118° 14' 16.786 W
4,480.0	22.19	58.69	3,992.1	682.0	1,591.3	4,063,439.52	4,215,668.07	33° 51' 55.454 N	118° 14' 16.398 W
4,575.0	18.61	58.29	4,081.1	699.3	1,619.5	4,063,456.82	4,215,696.30	33° 51' 55.625 N	118° 14' 16.063 W
4,669.0	14.82	57.00	4,171.1	713.8	1,642.4	4,063,471.26	4,215,719.15	33° 51' 55.767 N	118° 14' 15.792 W
4,764.0	11.74	57.09	4,263.6	725.6	1,660.7	4,063,483.13	4,215,737.46	33° 51' 55.884 N	118° 14' 15.575 W
4,858.0	9.14	51.13	4,356.0	735.5	1,674.5	4,063,493.01	4,215,751.30	33° 51' 55.982 N	118° 14' 15.410 W
4,953.0	6.62	35.69	4,450.1	744.7	1,683.6	4,063,502.20	4,215,760.38	33° 51' 56.073 N	118° 14' 15.303 W
5,047.0	5.54	19.13	4,543.6	753.4	1,688.2	4,063,510.89	4,215,765.02	33° 51' 56.159 N	118° 14' 15.248 W
5,142.0	5.45	10.42	4,638.1	762.2	1,690.5	4,063,519.66	4,215,767.34	33° 51' 56.246 N	118° 14' 15.220 W
5,230.0	5.46	9.08	4,725.7	770.4	1,692.0	4,063,527.90	4,215,768.76	33° 51' 56.327 N	118° 14' 15.203 W
5,331.0	5.40	8.76	4,826.3	779.8	1,693.4	4,063,537.34	4,215,770.24	33° 51' 56.421 N	118° 14' 15.185 W
5,425.0	5.49	6.23	4,919.9	788.7	1,694.6	4,063,546.18	4,215,771.40	33° 51' 56.508 N	118° 14' 15.171 W

**Oxy**  
Survey Report - Geographic

<b>Company:</b>	OXY USA LA BASIN	<b>Local Co-ordinate Reference:</b>	Well DOM-002 - Slot Slot E
<b>Project:</b>	DOMINGUEZ	<b>TVD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Site:</b>	REYES LANDS LEASE	<b>MD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Well:</b>	DOM-002	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIG HOLE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	LGPSPP

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,518.0	5.26	2.79	5,012.5	797.4	1,695.3	4,063,554.86	4,215,772.09	33° 51' 56.594 N	118° 14' 15.163 W	
5,614.0	5.51	0.72	5,108.0	806.4	1,695.6	4,063,563.87	4,215,772.36	33° 51' 56.683 N	118° 14' 15.160 W	
5,708.0	5.51	357.18	5,201.6	815.4	1,695.4	4,063,572.89	4,215,772.20	33° 51' 56.772 N	118° 14' 15.162 W	
5,804.0	5.43	349.97	5,297.2	824.5	1,694.4	4,063,581.96	4,215,771.18	33° 51' 56.862 N	118° 14' 15.174 W	
5,898.0	5.69	347.58	5,390.7	833.4	1,692.6	4,063,590.89	4,215,769.40	33° 51' 56.950 N	118° 14' 15.195 W	
5,993.0	5.44	338.61	5,485.3	842.2	1,689.9	4,063,599.69	4,215,766.75	33° 51' 57.037 N	118° 14' 15.226 W	
6,088.0	6.14	324.23	5,579.8	850.5	1,685.3	4,063,608.00	4,215,762.14	33° 51' 57.120 N	118° 14' 15.281 W	
6,182.0	6.96	313.95	5,673.2	858.5	1,678.3	4,063,616.03	4,215,755.10	33° 51' 57.199 N	118° 14' 15.364 W	
6,276.0	7.22	313.36	5,766.5	866.5	1,669.9	4,063,624.04	4,215,746.70	33° 51' 57.278 N	118° 14' 15.464 W	
6,370.0	7.18	314.50	5,859.7	874.7	1,661.4	4,063,632.22	4,215,738.22	33° 51' 57.359 N	118° 14' 15.564 W	
6,465.0	7.34	317.09	5,954.0	883.3	1,653.1	4,063,640.82	4,215,729.85	33° 51' 57.445 N	118° 14' 15.663 W	
6,560.0	7.51	319.04	6,048.2	892.5	1,644.8	4,063,649.95	4,215,721.65	33° 51' 57.535 N	118° 14' 15.760 W	
6,654.0	6.49	317.51	6,141.5	901.0	1,637.2	4,063,658.51	4,215,714.03	33° 51' 57.620 N	118° 14' 15.851 W	
6,749.0	5.34	309.57	6,236.0	907.8	1,630.2	4,063,665.29	4,215,707.00	33° 51' 57.687 N	118° 14' 15.934 W	
6,844.0	4.90	306.04	6,330.6	913.0	1,623.5	4,063,670.49	4,215,700.31	33° 51' 57.738 N	118° 14' 16.013 W	
6,932.0	4.52	304.87	6,418.3	917.2	1,617.6	4,063,674.68	4,215,694.43	33° 51' 57.780 N	118° 14' 16.083 W	
7,034.0	4.36	303.14	6,520.0	921.6	1,611.1	4,063,679.10	4,215,687.88	33° 51' 57.824 N	118° 14' 16.160 W	
7,128.0	5.10	309.04	6,613.7	926.2	1,604.8	4,063,683.68	4,215,681.65	33° 51' 57.869 N	118° 14' 16.234 W	
7,223.0	5.11	312.72	6,708.3	931.7	1,598.5	4,063,689.21	4,215,675.26	33° 51' 57.924 N	118° 14' 16.310 W	
7,317.0	4.79	314.08	6,801.9	937.3	1,592.6	4,063,694.78	4,215,669.36	33° 51' 57.979 N	118° 14' 16.380 W	
7,412.0	4.66	315.45	6,896.6	942.8	1,587.0	4,063,700.29	4,215,663.81	33° 51' 58.034 N	118° 14' 16.446 W	
7,506.0	4.43	315.58	6,990.3	948.1	1,581.8	4,063,705.61	4,215,658.59	33° 51' 58.086 N	118° 14' 16.508 W	
7,601.0	4.18	318.35	7,085.0	953.3	1,576.9	4,063,710.82	4,215,653.72	33° 51' 58.138 N	118° 14' 16.565 W	
7,696.0	4.52	319.73	7,179.8	958.8	1,572.2	4,063,716.26	4,215,649.00	33° 51' 58.192 N	118° 14' 16.621 W	
7,791.0	4.87	320.96	7,274.4	964.7	1,567.2	4,063,722.25	4,215,644.04	33° 51' 58.251 N	118° 14' 16.680 W	
7,885.0	4.62	323.05	7,368.1	970.9	1,562.4	4,063,728.37	4,215,639.25	33° 51' 58.312 N	118° 14' 16.737 W	
7,979.0	4.50	327.17	7,461.8	977.0	1,558.2	4,063,734.50	4,215,634.97	33° 51' 58.372 N	118° 14' 16.787 W	
8,074.0	4.23	329.37	7,556.6	983.1	1,554.4	4,063,740.64	4,215,631.17	33° 51' 58.433 N	118° 14' 16.832 W	
8,169.0	4.58	334.32	7,651.3	989.6	1,550.9	4,063,747.07	4,215,627.74	33° 51' 58.497 N	118° 14' 16.873 W	
8,263.0	4.74	334.83	7,745.0	996.5	1,547.7	4,063,753.97	4,215,624.46	33° 51' 58.566 N	118° 14' 16.912 W	
8,358.0	4.91	333.30	7,839.6	1,003.7	1,544.2	4,063,761.16	4,215,620.97	33° 51' 58.635 N	118° 14' 16.953 W	
8,452.0	4.97	333.34	7,933.3	1,010.9	1,540.5	4,063,768.39	4,215,617.33	33° 51' 58.708 N	118° 14' 16.996 W	
8,547.0	4.68	332.03	8,027.9	1,018.0	1,536.9	4,063,775.49	4,215,613.67	33° 51' 58.778 N	118° 14' 17.039 W	
8,642.0	4.31	329.76	8,122.6	1,024.5	1,533.3	4,063,782.00	4,215,610.05	33° 51' 58.842 N	118° 14' 17.082 W	
8,736.0	3.94	326.16	8,216.4	1,030.2	1,529.7	4,063,787.73	4,215,606.47	33° 51' 58.899 N	118° 14' 17.125 W	
8,831.0	3.81	324.33	8,311.2	1,035.5	1,526.0	4,063,793.01	4,215,602.82	33° 51' 58.951 N	118° 14' 17.168 W	
8,925.0	3.65	322.22	8,405.0	1,040.4	1,522.4	4,063,797.91	4,215,599.16	33° 51' 59.000 N	118° 14' 17.211 W	
9,020.0	3.59	320.65	8,499.8	1,045.1	1,518.6	4,063,802.60	4,215,595.42	33° 51' 59.046 N	118° 14' 17.255 W	
9,115.0	3.40	320.75	8,594.6	1,049.6	1,515.0	4,063,807.08	4,215,591.76	33° 51' 59.091 N	118° 14' 17.299 W	
9,210.0	3.06	315.44	8,689.5	1,053.6	1,511.4	4,063,811.07	4,215,588.19	33° 51' 59.130 N	118° 14' 17.341 W	
9,305.0	2.76	308.23	8,784.3	1,056.8	1,507.8	4,063,814.29	4,215,584.62	33° 51' 59.162 N	118° 14' 17.383 W	
9,399.0	2.34	298.53	8,878.3	1,059.1	1,504.4	4,063,816.61	4,215,581.15	33° 51' 59.185 N	118° 14' 17.425 W	
9,494.0	2.27	285.17	8,973.2	1,060.5	1,500.8	4,063,818.02	4,215,577.63	33° 51' 59.199 N	118° 14' 17.466 W	
9,588.0	2.35	284.62	9,067.1	1,061.5	1,497.2	4,063,819.00	4,215,573.97	33° 51' 59.209 N	118° 14' 17.510 W	
9,682.0	2.30	293.08	9,161.0	1,062.7	1,493.6	4,063,820.22	4,215,570.37	33° 51' 59.221 N	118° 14' 17.552 W	
9,777.0	2.40	289.03	9,255.9	1,064.1	1,489.9	4,063,821.62	4,215,566.74	33° 51' 59.235 N	118° 14' 17.595 W	
9,872.0	2.62	296.36	9,350.9	1,065.7	1,486.1	4,063,823.23	4,215,562.91	33° 51' 59.251 N	118° 14' 17.641 W	
9,929.0	2.84	296.05	9,407.8	1,066.9	1,483.7	4,063,824.43	4,215,560.48	33° 51' 59.263 N	118° 14' 17.670 W	
9,996.0	3.42	293.40	9,474.7	1,068.5	1,480.4	4,063,825.95	4,215,557.15	33° 51' 59.278 N	118° 14' 17.709 W	
10,047.0	4.43	292.87	9,525.6	1,069.8	1,477.1	4,063,827.32	4,215,553.94	33° 51' 59.291 N	118° 14' 17.747 W	
10,146.0	5.35	297.82	9,624.2	1,073.5	1,469.9	4,063,830.96	4,215,546.34	33° 51' 59.327 N	118° 14' 17.837 W	
10,241.0	6.11	289.93	9,718.7	1,077.3	1,460.9	4,063,834.75	4,215,537.67	33° 51' 59.365 N	118° 14' 17.940 W	
10,336.0	6.72	301.09	9,813.1	1,081.8	1,451.4	4,063,839.35	4,215,528.15	33° 51' 59.410 N	118° 14' 18.053 W	

**Oxy**  
Survey Report - Geographic

<b>Company:</b>	OXY USA LA BASIN	<b>Local Co-ordinate Reference:</b>	Well DOM-002 - Slot Slot E
<b>Project:</b>	DOMINGUEZ	<b>TVD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Site:</b>	REYES LANDS LEASE	<b>MD Reference:</b>	H&P 236 (194.09') @ 194.1ft (RF Elev: 25.12', GL: 168.97')
<b>Well:</b>	DOM-002	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	ORIG HOLE	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	LGPSPP

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,430.0	6.84	318.84	9,906.5	1,088.9	1,443.0	4,063,846.40	4,215,519.76	33° 51' 59.480 N	118° 14' 18.152 W
10,525.0	5.94	326.64	10,000.9	1,097.3	1,436.5	4,063,854.77	4,215,513.33	33° 51' 59.563 N	118° 14' 18.228 W
10,626.0	5.60	323.64	10,101.4	1,105.6	1,430.7	4,063,863.10	4,215,507.54	33° 51' 59.646 N	118° 14' 18.297 W
10,720.0	5.56	323.23	10,194.9	1,112.9	1,425.3	4,063,870.44	4,215,502.09	33° 51' 59.718 N	118° 14' 18.362 W
10,815.0	5.82	324.35	10,289.5	1,120.5	1,419.7	4,063,878.04	4,215,496.53	33° 51' 59.794 N	118° 14' 18.427 W
10,909.0	5.76	323.52	10,383.0	1,128.2	1,414.1	4,063,885.71	4,215,490.95	33° 51' 59.869 N	118° 14' 18.494 W
11,004.0	5.74	325.13	10,477.5	1,135.9	1,408.6	4,063,893.44	4,215,485.40	33° 51' 59.946 N	118° 14' 18.559 W
11,098.0	5.69	326.87	10,571.1	1,143.7	1,403.4	4,063,901.20	4,215,480.16	33° 52' 0.023 N	118° 14' 18.621 W
11,192.0	5.52	325.18	10,664.6	1,151.3	1,398.2	4,063,908.81	4,215,475.03	33° 52' 0.098 N	118° 14' 18.682 W
11,281.0	5.37	321.82	10,753.2	1,158.1	1,393.2	4,063,915.60	4,215,470.01	33° 52' 0.165 N	118° 14' 18.741 W
11,376.0	5.06	318.55	10,847.8	1,164.7	1,387.7	4,063,922.23	4,215,464.49	33° 52' 0.231 N	118° 14' 18.807 W
11,471.0	4.70	319.21	10,942.5	1,170.8	1,382.4	4,063,928.32	4,215,459.18	33° 52' 0.291 N	118° 14' 18.870 W
11,565.0	4.42	318.05	11,036.2	1,176.4	1,377.4	4,063,933.93	4,215,454.24	33° 52' 0.347 N	118° 14' 18.928 W
11,659.0	4.25	316.91	11,129.9	1,181.7	1,372.6	4,063,939.17	4,215,449.44	33° 52' 0.399 N	118° 14' 18.985 W
11,754.0	4.12	314.71	11,224.6	1,186.6	1,367.8	4,063,944.14	4,215,444.61	33° 52' 0.448 N	118° 14' 19.042 W
11,849.0	3.88	312.29	11,319.4	1,191.2	1,363.0	4,063,948.70	4,215,439.81	33° 52' 0.493 N	118° 14' 19.099 W
11,945.0	3.70	313.06	11,415.2	1,195.5	1,358.3	4,063,953.00	4,215,435.14	33° 52' 0.536 N	118° 14' 19.155 W
12,038.0	3.55	310.92	11,508.0	1,199.4	1,354.0	4,063,956.94	4,215,430.77	33° 52' 0.575 N	118° 14' 19.206 W
12,133.0	3.56	305.53	11,602.8	1,203.1	1,349.3	4,063,960.58	4,215,426.15	33° 52' 0.611 N	118° 14' 19.261 W
12,227.0	3.56	303.83	11,696.7	1,206.4	1,344.5	4,063,963.90	4,215,421.35	33° 52' 0.644 N	118° 14' 19.318 W
12,322.0	3.47	300.57	11,791.5	1,209.5	1,339.6	4,063,967.00	4,215,416.43	33° 52' 0.674 N	118° 14' 19.376 W
12,417.0	3.52	298.40	11,886.3	1,212.4	1,334.6	4,063,969.85	4,215,411.38	33° 52' 0.703 N	118° 14' 19.436 W
12,512.0	3.36	296.85	11,981.1	1,215.0	1,329.5	4,063,972.50	4,215,406.34	33° 52' 0.729 N	118° 14' 19.496 W
12,607.0	2.78	279.82	12,076.0	1,216.7	1,324.8	4,063,974.15	4,215,401.58	33° 52' 0.745 N	118° 14' 19.552 W
12,701.0	2.74	262.96	12,169.9	1,216.8	1,320.3	4,063,974.26	4,215,397.11	33° 52' 0.746 N	118° 14' 19.605 W
12,795.0	2.92	253.73	12,263.8	1,215.8	1,315.8	4,063,973.32	4,215,392.58	33° 52' 0.737 N	118° 14' 19.659 W
12,889.0	2.67	254.39	12,357.7	1,214.6	1,311.4	4,063,972.06	4,215,388.17	33° 52' 0.725 N	118° 14' 19.711 W
12,984.0	2.54	255.52	12,452.6	1,213.4	1,307.2	4,063,970.93	4,215,384.00	33° 52' 0.714 N	118° 14' 19.761 W
13,078.0	2.43	251.16	12,546.5	1,212.3	1,303.3	4,063,969.77	4,215,380.10	33° 52' 0.702 N	118° 14' 19.807 W
13,124.0	2.38	247.84	12,592.4	1,211.6	1,301.5	4,063,969.09	4,215,378.29	33° 52' 0.695 N	118° 14' 19.829 W
13,182.0	2.23	245.90	12,650.4	1,210.7	1,299.3	4,063,968.18	4,215,376.14	33° 52' 0.686 N	118° 14' 19.854 W

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
596.0	596.0	SURFACE CASING	18.625	24.000
2,362.0	2,233.1	SURFACE CASING	13.375	38.000
9,992.1	9,470.8	INTERMEDIATE CASING	9.625	12.250

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,266.6	2,154.1	BFW (Estimated)		0.00	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**OXY USA Inc.**  
**LA Basin Asset**  
A subsidiary of Occidental Petroleum Corporation

301 East Ocean Blvd, Suite 300  
Long Beach, CA 90802

October 14, 2013

California Department of Conservation – Division of Oil, Gas and Geothermal Resources  
5816 Corporate Ave, Suite 200  
Cypress, CA 90630-4731  
Attention: Mr. Dan Dudak, Mr. John Huff

Re: Extension of CDOGGR Records Confidentiality for Wells DOM-001 (037-27124) and  
DOM-002 (037-27148)  
Dominguez Field  
Section 33, T 3 S, R 13 W, San Bernardino B. & M.

Dear Mr. Dudak and Mr. Huff,

This letter is to request the extension of Confidentiality of CDOGGR Records for Wells  
DOM-001 (037-27124) and **DOM-002 (API 037-27148)**. The date the drilling equipment  
was removed from the well site (PRC01, 3234 (e)) was May 20<sup>th</sup>, 2011. The first extension  
expires November 20, 2013

Please extend the confidentiality status of all CDOGGR records for Wells DOM-001 (037-  
27124) and **DOM-002 another six months past November 20<sup>th</sup>, 2013**. We have  
extenuating circumstances defined by Section 3234 (4) of PRC01 as follows:

1. Active competitive leasing and/or mineral rights sales in the immediate vicinity of  
the well.
2. Governmental or judicial action inhibiting oil or gas development.

The first reason is self explanatory. The second reason is due to our waiting on the EIR  
Certification from the City of Carson. The City of Carson is currently reviewing the EIR. We  
are expecting the EIR to be finalized in March, 2014.

Thank you.

Respectfully Submitted,

Chris Phillips  
Senior Production and Operations Advisor, Agent  
OXY USA Inc. | LA Basin Asset  
562.495.9349





# DEPARTMENT OF CONSERVATION

*Managing California's Working Lands*

## DIVISION OF OIL, GAS, & GEOTHERMAL RESOURCES

5816 CORPORATE AVENUE • Suite 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE [conservation.ca.gov](http://conservation.ca.gov)

October 30, 2013

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

Subject: Confidential Status Extension for Well DOM-002 (API No. 037-27148)

Dear Mr. Phillips:

Your request for an extension of confidential status for the subject well is granted. All records pertaining to this well will be held confidential until May 20, 2014. If you have any questions, please feel free to contact me at (714) 816-6847.

Sincerely,

A handwritten signature in blue ink that reads "Ali Khan".

Ali Khan  
Operations and Permitting Supervisor

MAK:mak



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

**NOTICE OF RECORDS DUE  
 CONFIDENTIAL WELL**

Cypress, California  
 September 20, 2013

Chris Phillips  
 OXY USA Inc.  
 301 E. Ocean Blvd.  
 Long Beach, CA 90802

In accordance with Division 3, Chapter 1, of the California Public Resources Code, the following records are due, covering the **supplementary drill** notice dated **5/5/2011**, for the attached list of wells your well **DOM-002**, API No. **037-27148**, **Dominguez Field, Los Angeles County, Sec. 33, T. 3S, 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 OG100, OGG100) | <input checked="" type="checkbox"/> All Logs                       | <input type="checkbox"/> Velocity survey                         |
| <input type="checkbox"/> History (Form OG103, OGG103)      | <input type="checkbox"/> Dipmeter (computed)                       | <input type="checkbox"/> Temperature survey                      |
| <input type="checkbox"/> Core or sidewall sample           | <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 checked="" type="checkbox"/> Other                  | <input type="checkbox"/> Pressure measurements (flowing or static) | <input type="checkbox"/> RA Tracer survey (fluid migration test) |
| Core and sidewall sample reports/description               |  |  |

**REPORTS FOR THE MONTH OF** : *Production, oil and gas disposition, and injection reports are due on or before the 30<sup>th</sup> 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 OG110B or computer report)

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

Name <b>John Huff</b>	Title <b>Associate Engineer</b>	Signature
-----------------------	---------------------------------	-----------

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

# NOTICE OF RECORDS DUE

CONFIDENTIAL

Cypress, California  
March 22, 2013

Chris Phillips  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

In accordance with Division 3 of the Public Resources Code of California, the following records are due, covering the **supplementary drill** notice dated **5/5/2011** of your well DOM-002, API.NO. **037-27148**, **Dominguez** Field, Los Angeles County, Sec. 33, T. **3S**, R. **13W**, S.B. B. & M.

**RECORDS:** Records are due within 60 days after completion, suspension, or abandonment of any well, or upon completion of additional work in any well. Records shall be submitted in duplicate. Division forms must be signed

### OIL AND GAS OPERATION

- Well summary (Form (G 100)
- Core or sidewall sample (Form OG 101)
- History (Form OG103)

### GEOTHERMAL OPERATION

- Well Summary (Form OGG 100)
- Core or sidewall sample (Form OGG101)
- History (Form OGG 103)

**LOGS, TESTS, AND SURVEYS:** All logs, tests, and surveys are due within 60 days after completion, suspension, or abandonment of any well, or upon completion of additional work in any well. Logs, tests, and surveys shall be submitted in duplicate.

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> Electric log (2"=100ft.)          | <input type="checkbox"/> Velocity survey                              | <input type="checkbox"/> Water analysis          | <input type="checkbox"/> R/A survey      |
| <input checked="" type="checkbox"/> Directional survey     | <input type="checkbox"/> Mud log                                      | <input type="checkbox"/> Oil and/or gas analysis | <input type="checkbox"/> Spinner survey  |
| <input type="checkbox"/> Dipmeter (computed)               | <input type="checkbox"/> Pressure measurements<br>(flowing or static) | <input type="checkbox"/> Temperature survey      | <input type="checkbox"/> Cement Bond log |
| <input checked="" type="checkbox"/> Two copies of all logs | <input type="checkbox"/> Other _____                                  |  |  |

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

### OIL AND GAS OPERATION

- Production and disposition reports  
(Form OG 110 or computer report)
- Injection reports  
(Form OG110B or computer report)

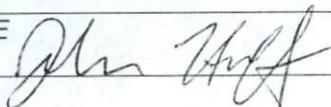
### GEOTHERMAL OPERATION

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

NAME John Huff

TITLE: Associate Engineer

SIGNATURE



TELEPHONE: (714) 816-6847

FAX: (714) 816-6853



# DEPARTMENT OF CONSERVATION

*Managing California's Working Lands*

## DIVISION OF OIL, GAS, & GEOTHERMAL RESOURCES

5816 CORPORATE AVENUE • Suite 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE [conservation.ca.gov](http://conservation.ca.gov)

March 1, 2013

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

**Subject: Confidential Status Extension for Wells DOM-001 (API No. 037-27124)  
and DOM-002 (API No. 037-27148)**

Dear Mr. Phillips:

Your request for an initial extension of confidential status for the subject wells has been granted. All records pertaining to these wells will be held confidential until November 20, 2013. If you have any questions, please feel free to contact John Huff at [John.C.Huff@conservation.ca.gov](mailto:John.C.Huff@conservation.ca.gov) or at (714) 816-6847.

Sincerely,

A handwritten signature in black ink, appearing to read "Dudak".

For: Daniel J. Dudak, District Deputy

MAK:jch



**OXY USA Inc.**  
**LA Basin Asset**  
A subsidiary of Occidental Petroleum Corporation

301 East Ocean Blvd, Suite 300  
Long Beach, CA 90802

February 4, 2013

California Department of Conservation – Division of Oil, Gas and Geothermal Resources  
5816 Corporate Ave, Suite 200  
Cypress, CA 90630-4731  
Attention: Mr. Dan Dudak, Mr. John Huff

Re: Extension of CDOGGR Records Confidentiality for Well DOM-002 (037-27148)  
Dominguez Field  
Section 33, T 3 S, R 13 W, San Bernardino B. & M.

Dear Mr. Dudak and Mr. Huff,

This letter is to request the extension of Confidentiality of CDOGGR Records for Well DOM-002 (API 037-27148) The date the drilling equipment was removed from the well site (PRC01, 3234 (e)) was May 20<sup>th</sup>, 2011.

Please extend the confidentiality status of all CDOGGR records for Well DOM-002 another six months past May 20<sup>th</sup>, 2013. We have extenuating circumstances defined by Section 3234 (4) of PRC01 as follows:

1. Active competitive leasing and/or mineral rights sales in the immediate vicinity of the well.
2. Governmental or judicial action inhibiting oil or gas development.

The first reason is self explanatory. The second reason is due to our waiting on the EIR Certification from the City of Carson.

Thank you.

Respectfully Submitted,

Chris Phillips  
Senior Geological Advisor, Agent  
OXY USA Inc. | LA Basin Asset  
562.495.9349

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

No. T 111- 0232

**REPORT ON OPERATIONS**

CONFIDENTIAL WELL  
EXPLORATORY WELL  
CORRECTED

Cypress, California  
December 6, 2011

Max O. Oyola, Agent  
OXY LONG BEACH, INC  
P.O. Box 2900  
Long Beach CA 90801-2900

Your operations at well **DOM-002** A.P.I. No. **037-27148**, Section **33**, T. **3S**, R. **13W**, S.B. **B & M.**, **Dominguez** Field, **Los Angeles** County, were witnessed on **05/07/11**. **Noel Saito**, representative of the supervisor, was present from **0800** to **1000**. There was also present **Ron Morse, Operator Rep.**

The operations were performed for the purpose of demonstrating the effectiveness of the seal between the 9-5/8" and 7" casings.

**DECISION: APPROVAL**

DEFICIENCIES: None.

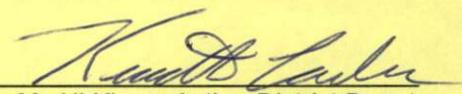
DEFICIENCIES NOTED AND CORRECTED: None

UNCORRECTABLE DEFICIENCIES: None

CONTRACTOR: **H&P**

Tim Kustic

Acting State Oil and Gas Supervisor

By: 

For: M, Ali Khan, Acting District Deputy

JHdj

cc: Update

OG109 07-08-09

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

No. T 111-0011

REPORT ON OPERATIONS

CONFIDENTIAL WELL  
EXPLORATORY WELL

Cypress, California  
July 12, 2011

Max O. Oyola, Agent  
OXY LONG BEACH, INC  
P.O. Box 2900  
Long Beach CA 90801-2900

Your operations at well DOM-002 A.P.I. No. 037-27148, Section 33, T. 3S, R. 13W, S.B. B & M., Dominguez Field, Los Angeles County, were witnessed on 05/07/11. Noel Saito, representative of the supervisor, was present from 0800 to 1000. There was also present Ron Morse, Operator Rep.

The operations were performed for the purpose of demonstrating the effectiveness of the seal between the 9-5/8" and 7" casings.

DECISION: APPROVAL

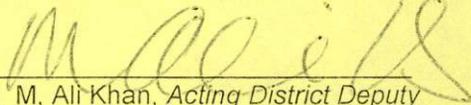
DEFICIENCIES: None.

DEFICIENCIES NOTED AND CORRECTED: None

UNCORRECTABLE DEFICIENCIES: None

CONTRACTOR: H&P

Elena M. Miller  
State Oil and Gas Supervisor

By:   
For: M, Ali Khan, Acting District Deputy

JHdj

cc: Update

OG109 07-08-09

**CONFIDENTIAL WELL**  
 DIVISION OF OIL AND GAS  
 WATER SHUTOFF TEST

No. T III-0011

Operator OXY USA INC.

Well designation DOM-002 Sec. 33, T. 3S, R. 13W, SB B.&M.

Field DOMINGUEZ, County LOS ANGELES was tested for water shutoff on 5/7/11. (Name) N. SAITO, representative of the supervisor, was present from 0800 to 1000. Also present were RON MORSE - OPERATOR REP

Casing record of well: 18 5/8" cem 598'; 13 3/8" cem 2374'; 9 5/8" cem 9992';  
7" ld 13,173. (td 13,173)

The operations were performed for the purpose of (E) 9 5/8" AND 7"

- The \_\_\_\_\_ " shutoff at \_\_\_\_\_' is approved.  
 The seal between the 7 " and 9 5/8 " casings is approved.

Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_' to \_\_\_\_\_'; \_\_\_\_\_" to \_\_\_\_\_'; & \_\_\_\_\_" to \_\_\_\_\_'

Casing			Cemented		Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume			
9 5/8"	53.5	0	9992	4/8/11	—	LEAD 1945CF TAIL 1235CF	Ø	9894	—
7"	32	9648	13,173	5/4/11	—	LANDED	—	—	—

Depth or interval tested 9620 - 13,173  
 The hole was open to 372 ' for test.

FORMATION TEST:

Packer(s) 9620 ' & \_\_\_\_\_ ' Tail 9644 ' Bean size 5/8" Cushion 5780' MUA  
 IHP 6245 IFP 4604 FFP 4604 FHP 3889  
 Blow \_\_\_\_\_  
 Open for test \_\_\_\_\_ Hr. 0 min. Fluid entry Ø

BAILING TEST:

The hole fluid was bailed to \_\_\_\_\_', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.  
 The hole fluid was found at \_\_\_\_\_', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.  
 (time)

PRODUCTION TEST:

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ pump depth \_\_\_\_\_' Engr. \_\_\_\_\_  
 Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ Engr. \_\_\_\_\_  
 Fluid level \_\_\_\_\_' surveyed on \_\_\_\_\_ 19\_\_, reviewed (witnessed) by \_\_\_\_\_  
 Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_  
 Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

EXT CSG PKR - 12,333

**CONTRACTOR:**

H&P

**UNCORRECTABLE DEFICIENCIES:**

**DEFICIENCIES NOTED AND TO BE CORRECTED:**

N/A

**DEFICIENCIES NOTED AND CORRECTED:**

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

No. P 111-0270

PERMIT TO CONDUCT WELL OPERATIONS

208  
Field Code

00  
Area Code

--  
(New Pool Code)

--  
(Old Pool Code)

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

CONFIDENTIAL WELL  
EXPLORATORY WELL

Cypress, California  
May 6, 2011

Your **supplementary** proposal to drill well DOM-002, A.P.I. No. **037-27148**, Section **33**, T. **3S**, R. **13W**, S.B. B. & M., **Dominguez** Field, -- area, **Division C, Division D, Division E, Division F**, and **Schist Basement** pools, **Los Angeles** County, dated **5/5/2011**, received **5/6/2011** has been examined in conjunction with records filed in this office.

**THE PROPOSAL, COVERING WORK ALREADY COMPLETED, IS APPROVED PROVIDED:**

- a. Witness a **negative pressure test** to demonstrate there is no fluid access to the well between the **9 5/8"** and **7"** casings, after cleaning out below the top of the casing lap.
- b. In all other respects, the well is to be drilled in accordance with provisions outlined in Supplementary Permit **P111-0043**, dated **February 4, 2011**.

AA: aa

cc: Update  
EDP

BLANKET BOND

Engineer: John Huff

Phone: 714/816-6847

Elena M. Miller

State Oil and Gas Supervisor

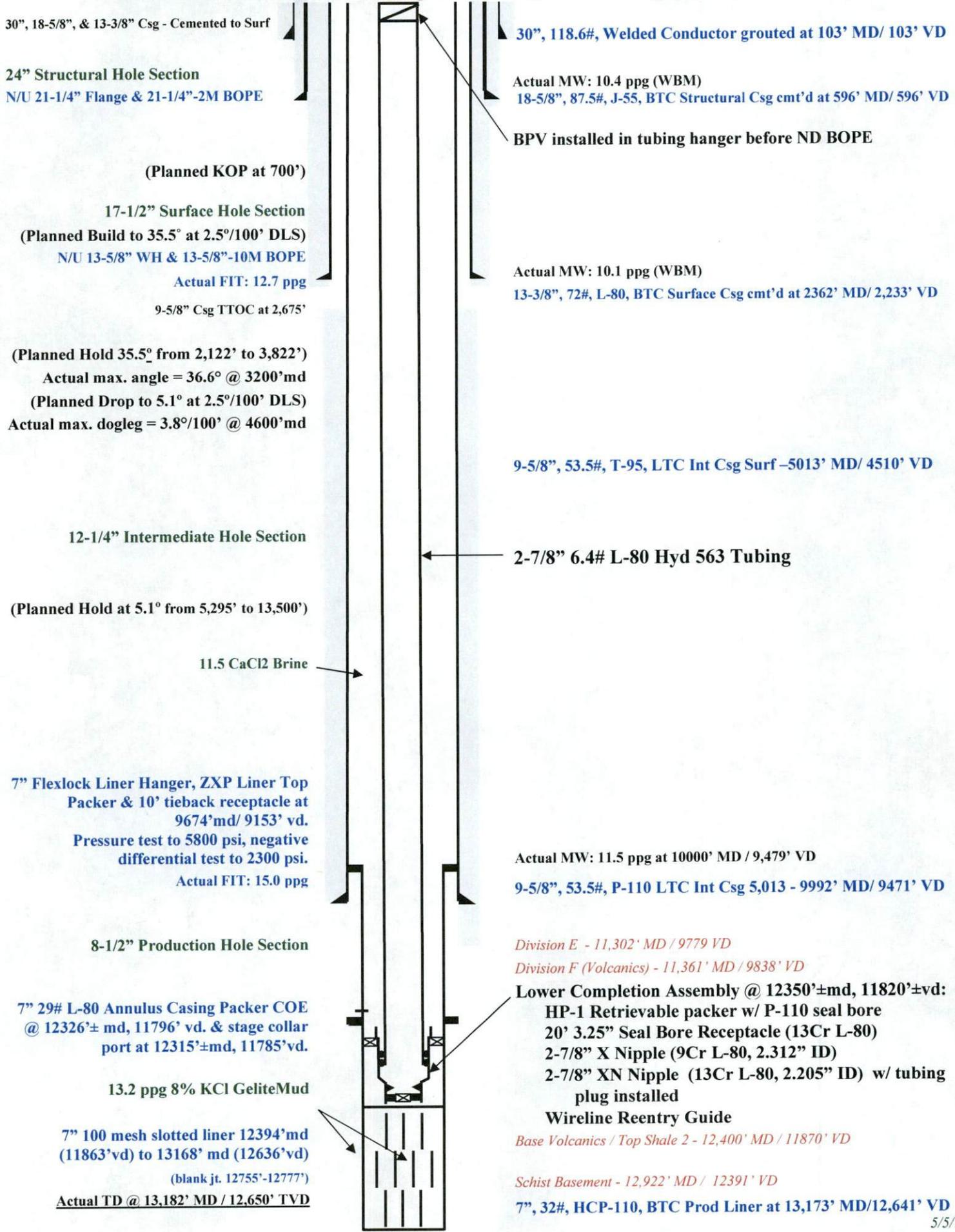
By

M. Ali Khan  
M. Ali Khan, 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.



# Well: DOM-002 Field: Dominguez Proposed Completion Schematic



30", 18-5/8", & 13-3/8" Csg - Cemented to Surf  
 24" Structural Hole Section  
 N/U 21-1/4" Flange & 21-1/4"-2M BOPE

(Planned KOP at 700')

17-1/2" Surface Hole Section  
 (Planned Build to 35.5° at 2.5°/100' DLS)  
 N/U 13-5/8" WH & 13-5/8"-10M BOPE  
 Actual FIT: 12.7 ppg  
 9-5/8" Csg TIOC at 2,675'

(Planned Hold 35.5° from 2,122' to 3,822')  
 Actual max. angle = 36.6° @ 3200'md  
 (Planned Drop to 5.1° at 2.5°/100' DLS)  
 Actual max. dogleg = 3.8°/100' @ 4600'md

12-1/4" Intermediate Hole Section  
 (Planned Hold at 5.1° from 5,295' to 13,500')

11.5 CaCl2 Brine

7" Flexlock Liner Hanger, ZXP Liner Top  
 Packer & 10' tieback receptacle at  
 9674'md/ 9153' vd.  
 Pressure test to 5800 psi, negative  
 differential test to 2300 psi.  
 Actual FIT: 15.0 ppg

8-1/2" Production Hole Section

7" 29# L-80 Annulus Casing Packer COE  
 @ 12326± md, 11796' vd. & stage collar  
 port at 12315±md, 11785'vd.

13.2 ppg 8% KCl GeliteMud

7" 100 mesh slotted liner 12394'md  
 (11863'vd) to 13168' md (12636'vd)  
 (blank jt. 12755'-12777')

Actual TD @ 13,182' MD / 12,650' TVD

30", 118.6#, Welded Conductor grouted at 103' MD/ 103' VD

Actual MW: 10.4 ppg (WBM)  
 18-5/8", 87.5#, J-55, BTC Structural Csg cmt'd at 596' MD/ 596' VD

BPV installed in tubing hanger before ND BOPE

Actual MW: 10.1 ppg (WBM)  
 13-3/8", 72#, L-80, BTC Surface Csg cmt'd at 2362' MD/ 2,233' VD

9-5/8", 53.5#, T-95, LTC Int Csg Surf -5013' MD/ 4510' VD

2-7/8" 6.4# L-80 Hyd 563 Tubing

Actual MW: 11.5 ppg at 10000' MD / 9,479' VD  
 9-5/8", 53.5#, P-110 LTC Int Csg 5,013 - 9992' MD/ 9471' VD

Division E - 11,302' MD / 9779 VD  
 Division F (Volcanics) - 11,361' MD / 9838' VD

Lower Completion Assembly @ 12350±md, 11820±vd:  
 HP-1 Retrievable packer w/ P-110 seal bore  
 20' 3.25" Seal Bore Receptacle (13Cr L-80)  
 2-7/8" X Nipple (9Cr L-80, 2.312" ID)  
 2-7/8" XN Nipple (13Cr L-80, 2.205" ID) w/ tubing  
 plug installed

Wireline Reentry Guide

Base Volcanics / Top Shale 2 - 12,400' MD / 11870' VD

Schist Basement - 12,922' MD / 12391' VD

7", 32#, HCP-110, BTC Prod Liner at 13,173' MD/12,641' VD

## Moser, Ellen

---

**From:** Jim\_Chaconas@oxy.com  
**Sent:** Saturday, April 30, 2011 3:02 PM  
**To:** Chris\_Phillips@oxy.com; Max\_Oyola@oxy.com; Jeffrey\_Stewart@oxy.com;  
Mike\_McCarter@oxy.com; Jerial\_Holman@oxy.com; Ronald\_Morse@oxy.com;  
Kurt\_Johnson@oxy.com; Mark\_Kapelke@oxy.com; Philip\_Krueger@oxy.com;  
Scott\_Prior@oxy.com  
**Subject:** DOGGR Verbal Approval - DOM-002 Revised 7" Liner

I received verbal approval today at 2:30 pm from Wei Chen of the DOGGR to revise the DOM-002 7" liner program as follow: 7" slotted liner from 13182' (TD) to 12400' & cemented liner from 12400' to 9700'. He had discussed our proposed revision with Ali Khan, who gave his approval. Mr. Chen said we need to submit a Supplemental Notice documenting this revision.

I told him we would prepare the 7" Supplemental Notice Monday. I also told him that Oxy would be submitting a Supplemental Notice covering completion of the well.

Jim

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**From:** Chaconas, Jim D (Pacific Management Technologies, Inc. )  
**Sent:** Friday, April 29, 2011 4:15 PM  
**To:** Holman, Jerial; Johnson, Kurt; Kapelke, Mark (Tidelands); Krueger, Philip J.; Neher, Kurt; Oyola, Max T; Phillips, Chris (Tidelands); Prior, Scott; Stewart, Jeffrey; Revana, Karthik G; Morse, Ronald T (Independent Contractor ); Lopez, Cristian A (BJ Services Company ); Fullmer, Benjamin J (MI, LLC ); Rodriguez, Carlos; Rodriguez, Carlos (MI, LLC ); Vlasko, Brian C; 'Zachry, Jacob M'; Araya, Anibal; Van Aelstyn, Dale; London, Elizabeth A (BJ Services )  
**Cc:** Brienens, Jeff W.; Singleton, Nick; Touchet, Chad A; Torpey, John M.  
**Subject:** DOM-002 Revised 7" Liner

Attached is the revised DOM-002 plan forward, incorporating a combination 7" cemented /slotted liner, with slotted liner from 12400' to TD and cemented liner above 12400'.

I will be sending out the MOC form for final approval shortly.

We expect to start running the 7" liner Monday. After cementing and testing the liner, the plan is to have the drilling rig run the completion string and subsurface safety valve. Feel free to contact me if you have any questions.

Jim

Jim Chaconas  
InterAct PMTI  
805-705-3342 cell  
562-624-3145 THUMS office

<< File: DOM-002 Revised 7in Liner-Completion Procedure 4-29-11.doc >> << File: DOM-002 Wellbore Schematic 7in cmt-d-slotted DP 4-29-11a.pdf >>

## Moser, Ellen

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**From:** Mike\_McCarter@oxy.com  
**Sent:** Thursday, May 05, 2011 4:12 PM  
**To:** Moser, Ellen  
**Cc:** Huff, John C.  
**Subject:** Supplemental Notice 2 on DOM-002.  
**Attachments:** DOM-002 DOG Supplemental Notice 2.doc; DOM002\_SupplementalNotice.pdf; DOM-002 Suppl Notice Schematic 5-5-11.pdf; DOGGR Verbal Approval - DOM-002 Revised 7" Liner

Ellen,

Here our Supplemental Notice 2 for changing the casing configuration in 8-1/2" hole interval on DOM-002.

The reason we want to have a slotted liner across the lower 800' of interval, is that the entire interval has natural fractures that we don't want to plug up with cement. We believe the oil reserves are in these fractures and not in the matrix rock. If we cemented and perforated this interval, it would probably require an extensive fracture stimulation to reconnect with the original natural fracture network. Since the Shale 2 interval from 12,400' to 12,922' and the Schist Basement interval from 12,922'-13,182' appear to have similar fracture characteristics with no natural barrier isolating them, we are proposing that their production be commingled. The open hole interval proposed on this DOM-002 well is only 800' long, where the bottom 1800' of similar interval is completed as one slotted liner on DOM-001.

Here is a signed copy of the Supplemental Notice 2 above.

Here is a proposed well schematic for DOM-002.

Here is the email describing the conversation between Jim Chaconas and Wie Chen last weekend, asking for approval to change the casing configuration.

If you have any questions, please call.

-Mike

Mike McCarter  
Senior Drilling Engineering Advisor  
Thums Long Beach Company  
562-624-3247 (office)  
562-900-1473 (cell)  
[mike\\_mccarter@oxy.com](mailto:mike_mccarter@oxy.com)

504

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

No. T 111-0131

**REPORT ON OPERATIONS**

CONFIDENTIAL WELL

EXPLORATORY WELL

Cypress, California  
April 14, 2011

Chris Phillips, Agent  
OXY USA INC.  
301 E Ocean Blvd., Ste 300  
Long Beach CA 90802

Your operations at well **DOM-002**, A.P.I. No. **037-27148**, Section **33**, T. **3S**, R. **13W**, S.B. **B & M.**, **Dominguez Field**, **Los Angeles** County, were witnessed on **04/11/11**. **Noel Saito**, representative of the supervisor, was present from **1400** to **1615**. There was also present **Ron Morse, Site Manager**.

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

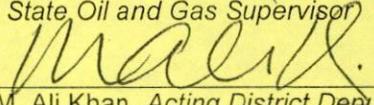
**DECISION:** APPROVAL

**DEFICIENCIES:** None

**CONTRACTOR:** **Helmerich & Payne**

Elena Miller

State Oil and Gas Supervisor

By: 

For: M, Ali Khan, Acting District Deputy

JH: tl

cc: Update

OG109 07-08-09

CONFIDENTIAL

APINO. 037-27148

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

T. 111-013 P

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator OXY USA, INC. Well DOM-002 Sec. 33 T. 35 R. 13W
Field DOMINGUEZ County LOS ANGELES Spud Date 2/9/11

VISITS: Date 4/11/11 Engineer N. SAITO Time (1400 to 1615) Operator's Rep. RON MORSE Title OPERATOR REP
Contractor HEP Rig# 236 Contractor's Rep. & Title PACO SOTELLO RIG SUPERVISOR
Casing record of well: 18 5/8" cem 598'; 13 1/8" cem 2374'; 9 5/8" cem 9992'; TD 10000 (drilling)

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y X N
DECISION: The blowout prevention equipment and its installation on the 13 1/8" casing are approved.

Proposed Well Opns: NEW DRILL MACP: psi
Hole size: 2 1/4" fr. 2364' to 10000' to & to

REQUIRED BOPECLASS: B 10M

CASING RECORD OF BOPE ANCHOR STRING table with columns: Size, Weight(s), Grade(s), Shoe at, CP at, Cement Details, Top of Cement

BOPSTACK and TEST DATA tables with columns: API Symb., Ram Size, Manufacturer, Model, Vert. Bore Size, Press. Rtg., Date Last Overhaul, Gal. to Close, Recovery Time, Calc. GPM Output, psi Drop to Close, Secs. to Close, Test Date, Test Press.

ACTUATING SYSTEM and AUXILIARY EQUIPMENT tables with columns: Accumulator Unit(s) Working Pressure, Total Rated Pump Output, Distance From Well Bore, No., Size, Rated Press., Connections, Test Press.

CONTROL STATIONS table with columns: Elec., Hyd., Pneu., Manifold at accumulator unit, Remote at Driller's station, Other.

EMERG. BACKUP SYSTEM table with columns: Press., Wkg. Fluid, N2 Cylinders, L, Pressure, Wkg. Fluid, Other.

HOLEFLUID MONITORING EQUIPMENT table with columns: Alarm Type, Audible, Visual, Class, Hole Fluid Type, Weight, Storage Pits (Type & Size)

REMARKS AND DEFICIENCIES: section for handwritten notes and observations.

**CONTRACTOR:**

H & P

**UNCORRECTABLE DEFICIENCIES:**

~~**DEFICIENCIES NOTED AND TO BE CORRECTED:**~~

N/A

~~**DEFICIENCIES NOTED AND CORRECTED:**~~

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

No. T 111-0130

**REPORT ON OPERATIONS**

CONFIDENTIAL WELL

EXPLORATORY WELL

Cypress, California  
April 14, 2011

Chris Phillips, Agent  
OXY USA INC.  
301 E Ocean Blvd., Ste 300  
Long Beach CA 90802

Your operations at well **DOM-002**, A.P.I. No. **037-27148**, Section **33**, T. **3S**, R. **13W**, S.B. **B & M.**, **Dominguez** Field, **Los Angeles** County, were witnessed on **02/23/11**. **Kathleen Andrews**, representative of the supervisor, was present from **0515** to **0800** There was also present **Ron Morse**, **Site Manager**.

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

**DECISION:** APPROVAL

**DEFICIENCIES:** None

**CONTRACTOR:** **Helmerich & Payne**

Elena Miller

State Oil and Gas Supervisor

By:

For: M, Ali Khan, Acting District Deputy

JH: tl

cc: Update

OG109 07-08-09



**CONTRACTOR:**

*Helmenich & Payne*

**UNCORRECTABLE DEFICIENCIES:**

*0151-02/MC7 limited budget  
2553 of 0203 mont 29  
11/15/14 to 11/15/15* ∅

**DEFICIENCIES NOTED AND TO BE CORRECTED:**

∅

**DEFICIENCIES NOTED AND CORRECTED:**

∅

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

No. T 111-0129

## REPORT ON OPERATIONS

CONFIDENTIAL WELL

EXPLORATORY WELL

Cypress, California  
April 14, 2011

Chris Phillips, Agent  
OXY USA INC.  
301 E Ocean Blvd., Ste 300  
Long Beach CA 90802

Your operations at well **DOM-002**, A.P.I. No. **037-27148**, Section **33**, T. **3S**, R. **13W**, S.B. **B & M.**, **Dominguez** Field, **Los Angeles** County, were witnessed on **02/14/11**. **Janel Chamberlain**, representative of the supervisor, was present from **1600** to **1800**. There was also present **Scott Cheeseman**, Rig Supervisor.

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

**DECISION:** APPROVAL

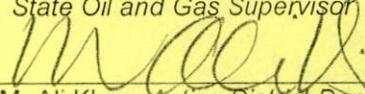
**DEFICIENCIES NOTED AND CORRECTED:**

1. Standpipe and choke gauge were calibrated.
2. Gallons to close for stack were available by the next BOPE Test with Kathleen Andrews on 02/23/11.

**CONTRACTOR:** Helmerich & Payne

Elena Miller

State Oil and Gas Supervisor

By: 

For: M, Ali Khan, Acting District Deputy

JH: tl

cc: Update

OG109 07-08-09



CONTRACTOR:

H & P

UNCORRECTABLE DEFICIENCIES:

N/A

DEFICIENCIES NOTED AND TO BE CORRECTED:

N/A

DEFICIENCIES NOTED AND CORRECTED:

- ① Standpipe & choke gauge were calibrated
- ② & gallons to close for stack was available by the next BOPE Test with KMA on 2/23/2011.

PERMIT TO CONDUCT WELL OPERATIONS

208  
Field Code

00  
Area Code

--  
(New Pool Code)

--  
(Old Pool Code)

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

CONFIDENTIAL WELL  
EXPLORATORY WELL

Cypress, California  
February 4, 2011

Your **supplementary** proposal to **drill** well **DOM-002**, A.P.I. No. **037-27148**, Section **33**, T. **3S**, R. **13W**, **S.B. B. & M.**, **Dominguez** Field, -- area, **Division C, Division D, Division E, Division F**, and **Schist Basement** pools, **Los Angeles** County, dated **1/13/2011**, received **1/13/2011** has been examined in conjunction with records filed in this office.

**THE PROPOSAL IS APPROVED PROVIDED:**

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
  - a. Class **IIB2M**, with hydraulic controls, on the **18 5/8"** casing.
  - b. Class **IVB5M**, with hydraulic controls, on the **13 3/8"** casing **prior** to setting the **9 5/8"** casing.
  - c. Class **IVB10M**, with hydraulic controls, on the **13 3/8"** casing **after** setting the **9 5/8"** casing.
2. Drilling fluid in sufficient quantity and quality to control all subsurface conditions in order to prevent blowouts shall be used.
3. Sufficient material to control lost circulation of hole fluid shall be available for immediate use at the well site.
4. The **13 3/8"** casing shall be set prior to drilling below **2250' TVD**, and cemented with sufficient cement to fill behind the casing from the casing shoe to the surface.
5. The **9 5/8"** casing is cemented with sufficient cement to fill behind the casing to at least **500'** above all oil, gas zones and/or anomalous pressure intervals.
6. A **fluid-entry** test shall be performed to demonstrate that no fluid has access to the well between the **9 5/8"** and **7"** casings after cleaning out below the top of the **7"** casing.
7. A directional survey shall be made and filed with this Division within 15 days of completion of drilling.
8. **A Supplementary Notice shall be filed with this Division prior to completion of the well.**
9. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
10. **THIS DIVISION SHALL BE NOTIFIED TO:**
  - a. Witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the **18 5/8"** casing.
  - b. Witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the **13 3/8"** casing.
  - c. Witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the **9 5/8"** casing.
  - d. Witness a test to demonstrate there is no fluid access to the well between the **9 5/8"** and **7"** casings, after cleaning out below the top of the casing lap.

(Continued on Page 2)

JCH:jch  
cc: Update  
EDP

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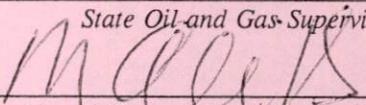
Engineer: John Huff

Phone: 714/816-6847

Elena M. Miller

State Oil and Gas Supervisor

By

  
M. Ali Khan, 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.

**NOTE:**

1. A crew drill may be required at the time of the blowout prevention equipment test.
2. The base of the freshwater zone is at 2278' +/- MD (2154' +/- TVD).
3. This well has been granted confidential status for two years from the cessation of drilling operations.



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

P# 111-0043

OG/JCH

FOR DIVISION USE ONLY			
Bond	Forms		
	OGD174	OGD121	
BB		1-21-11	Lg

### SUPPLEMENTARY NOTICE

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

A notice to the Division of Oil, Gas, and Geothermal Resources, dated 08/25/10, stating the intention to

Drill well DOM-002, API No. 037-27148

(Drill, Rework, Abandon)

Sec. 33, T. 3S, R. 13W, S.B. B.&M., Dominguez Field, Los Angeles County

should be amended because of changed conditions.

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

30", 118.6#, Grade B, welded conductor cemented at 103' with cement to surface.

The total depth is: 103 feet.

The effective depth is: 103 feet.

Present completion zone(s): none  
(Name)

Anticipated completion zone(s): Callender 1 - 8, Div C to Schist  
(Name)

Present zone pressure: none psi.

Anticipated/existing new zone pressure: 8,541 psi.

**We now propose: (A complete program is preferred and may be attached.)**

Drill 17-1/2" hole to 610' and cement 18-5/8", 87.5#, J-55, BTC casing at 600'. Install 21-1/4", 2M SOW flange and nipple up 21-1/4", 2M Class IIIB BOPE. Install test plug and test BOPE to 810 psi. Pull test plug and test 18-5/8" casing to 310 psi.

Bottom hole location has changed to the coordinates and vertical depth listed below. Mineral lease and surface lease now coincide.

See Summary Page Attachment for proposed drilling and casing work.

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

at total depth: 1,388.5 feet North and 1288.2 feet East Estimated true vertical depth: 12,453'  
(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 Oxy USA Inc.			
Address 301 East Ocean Blvd.		City/State Long Beach, CA	Zip Code 90801
Name of Person Filing Notice Chris Phillips	Telephone Number: (562) 495-9349	Signature <i>Chris Phillips</i>	Date 1/13/2011
Individual to contact for technical questions: Mike McCarter	Telephone Number: (562) 624-3247	E-Mail Address: mike_mccarter@oxy.com	

This notice must be filed, and approval given, before the operations begin. If operations have not commenced within one year of the Division's receipt of this supplementary notice, this notice will be considered cancelled.

**DOGGR Supplemental NOI to Drill New Well - ATTACHMENT****New Well: DOM-002**

New Cased Hole Producer

Depths refer to the DF of 194.09' ASL

(Drill Floor elevation of 25.12' plus ground elevation of 168.97')

30", 118.6# Welded conductor cemented at 103' md/ 103' vd

(Conductor bottom 78' below ground level, top 2' above cellar floor)

Proposed BFW at 2278' md/ 2154' vd/ 1960' vss

***Drilling Rig Operations:***

Skid H&P 236 drilling rig 10' and rig up. Install riser on 30" conductor and connect flowline to pits. Take on 10 ppg KCl/Gelite/SP101 clay base mud into pits.

Pickup 24" tricone bit with NBS, 8" DC's, UBHO sub, and 5" HWDP. Cleanout 30" conductor to 103' md. Circulate and condition 10.0 ppg KCl/Gelite/SP101 clay base mud. Drill and survey 24" vertical hole with gyro from 100' to 610' md. Wipe hole to conductor at 103' and run back to bottom. Circulate and condition mud for casing. Run 18-5/8", 87.5#, J-55, ERW, BTC structural casing to 600' md and land in elevators on rotary table. Run stinger on 5" drill pipe and stab into float collar. Cement 18-5/8" casing, watching for cement returns at surface and then displace with mud. Pull 5" drill pipe and stinger. While WOC, washout and remove riser, then cut off 18-5/8" casing. Install 21-1/4", 2M weld-on starter head, 21-1/4", 2M annular preventer, and bell nipple with flowline. Run choke line to the mud/gas separator, with mud returns to the pits and gas to the flare. Install test plug and test BOP to 810 psi.

Pickup 17-1/2" tricone bit and NB stab on cleanout assembly. Cleanout 18-5/8" surface casing to 558'. Pressure test casing to 310 psi. Circulate and condition 10.0 ppg KCl/Gelite/SP101 clay base mud. Drill out float collar at 558', cement, and shoe at 600'. Drill out 10' of cement, and 10' of new hole to 620'. Perform FIT to 11.8 ppg EMW. Pickup 12-1/4" Conventional Steerable BHA with 8" MM/8" MWD/8" NMDC's/5" HWDP on 5" drill pipe. Directionally drill and survey 12-1/4" hole from 600' to 2,385' md. Wipe hole. Circulate and condition hole for casing, POH. Run 13-3/8", 72#, L-80, BTC surface casing to 2,375' md and land in elevators on rotary table. Run stab-in on 5" drill pipe and cement, with returns to surface. While WOC, remove 21-1/4", 2M BOPE and bell nipple. Cut off 21-1/4" starting wellhead, 18-5/8" casing, and 13-3/8" casing. Weld 13-5/8", 5M wellhead onto 13-3/8" casing. Install 13-5/8", 5M x 13-5/8", 10M tieback spool and 13-5/8", 10M spacer spool. Nipple up 13-5/8", 10M BOPE and install bell nipple with flowline. Install test plug and pressure test BOPE to 1760 psi.

Pickup 12-1/4" tricone bit and NB stab on cleanout assembly. Pressure test casing and BOPE to 1,260 psi. Drill out float at 2,291' and cement down to 2,365' (10' above casing shoe). Circulate and condition 10.0 ppg KCl/Gelite/SP101 clay base mud. Drill out 13-3/8" casing shoe at 2,375', 10' of cement, and 10' of new hole to 2,395'. Perform FIT to 12.7 ppg EMW. Pickup 12-1/4" PDC bit on Conventional Steerable BHA with 8" MWD/OnTrak LWD (GR, Res, ECD)/8" NMDC's/5" HWDP on 5" drill pipe. Directionally drill, survey, and log 12-1/4" hole from 2395' to 8,810' md / 8,368' vd. Core 12-1/4" hole as directed. Scheduled mud weight is between 9.5 and 10.0 ppg, or as

**DOGGR Supplemental NOI to Drill New Well - ATTACHMENT**

needed to prevent flow. Wipe hole. Circulate and condition hole for logs, POH. Rig up Schlumberger wireline. Run wireline tools (PEX with GR/AIT/HNGS/ECS/Density/Neutron, CMR/Sonic Scanner, and FMI) to 8,810' and log up to 2,175'. Run XPT tool and take pressure stations as directed. Run Sidewall Core gun and take SWC's as directed. Pickup BNHO and ream 12-1/4" hole from 2375' to 8,810', as needed. Circulate and condition hole for casing, POH. Run 9-5/8", 53.5#, P-110 (8,800'-5,000') and T-95 (5,000'-Surface), LTC intermediate casing. Land casing on hanger with 9-5/8" shoe at 8,800'. Cement 9-5/8" casing around shoe, with TOC at 2675'. WOC. Install test plug and pressure test BOPE to 7250 psi.

Pickup 8-1/2" tricone bit and NB stab on cleanout assembly. Pressure test casing and BOPE to 6,600 psi. Drill out float collar at 8,716' and cement down to 8,780' (20' above shoe). Change over 13.0 ppg LVT 200 Synthetic Oil Based Mud. Drill out 9-5/8" casing shoe at 8,800', 10' of cement, and 10' of new hole to 8,820'. Perform FIT to 15.1 ppg EMW. Pickup 8-1/2" PDC bit on Conventional Steerable BHA with 6-3/4" MWD/OnTrak LWD (GR, Res, ECD)/6-3/4" NMDC's/5" HWDP on 5" drill pipe. Directionally drill, survey, and log 8-1/2" hole from 8,820' to planned TD of 12,897' TMD/ 12,453' TVD). Core 8-1/2" hole as directed. Scheduled mud weight is between 13.0 ppg and 13.7 ppg, or as needed to prevent flow. Wipe hole. Circulate and condition hole for logs, POH. Rig up Schlumberger wireline. Run wireline tools (PEX with GR/AIT/HNGS/ECS/Density/Neutron, CMR/Sonic Scanner, and OBMI) to 12,897' and log up to 8,600'. Run XPT tool and take pressure stations as directed. Run Rotary Sidewall Core tooln and take SWC's as directed. Pickup BNHO and ream 12-1/4" hole from 8,800' to 12,897', as needed. Circulate and condition hole for liner, POH. Run 7", 32#, P-110 production liner on 5" drill pipe to 12,895' (2' off bottom) and set BOT Hyflo III liner hanger at 8,500' md/ 8,058' vd (300' lap inside 9-5/8" casing). Release from hanger. Cement 7" liner and bring cement to 8,000' (500' over liner top). Set 7" liner top packer and test. Reverse and pull liner setting tool.

Pickup 8-1/2" tricone bit and 9-5/8" casing scraper on 5" drill pipe. Clean out cement to 7" liner top at 8,500'. Pressure test 9-5/8" casing and 7" lap to 6,600 psi. Lay down 3,450' of 5" drill pipe. Pickup 6" tricone bit and 7" casing scraper on 3,450' of 3-1/2" drill pipe tail. Run in on 5" drill pipe and clean out cement 30' inside 7" liner top. Run 9-5/8" test packer and take Negative Pressure test on 7" lap. Continue in hole and cleanout to landing collar at 12,811'. Pressure test 9-5/8" casing, 7" lap, and 7" liner to 6,600 psi. Laydown 5" drill pipe, 3-1/2" drillpipe, and tools. Pickup 2-7/8", 6.5#, L-80, EUE 8rd tubing kill string and hang at 12,500'. Set BPV and nipple down 13-5/8", 10M BOPE. Install 13-5/8", 10M x 7-1/16", 10M tubing head spool. Install 7-1/16", 10M x 3-1/16", 10M tree. Pressure test spool and production tree to 7,250 psi. Rig down and move out H&P 236 drilling rig. Clean location.

Notes:

- This "Notice of Intention to Drill New Well" is strictly for drilling and casing the well. A "Supplementary Notice" will be submitted later to complete the well.
- Upon completion of the proposed work, a "Well Summary Report" will be submitted to the CDOGGR.

30", 18-5/8", & 13-3/8" Csg - Cement to Surf

24" Structural Hole Section  
Install 21-1/4" Flange & 21-1/4, 2M BOPE  
FIT: 11.8 ppg

(KOP at 700')

17-1/2" Surface Hole Section  
(Build to 30.3° at 3°/100' DLS)  
Install 13-5/8" WH & 13-5/8", 10M BOPE  
FIT Min: 12.7 ppg  
9-5/8" Csg TOC at 2,675'

(Hold 30.3° from 1,711' to 4,241')

(Drop to 2.0° at 3°/100' DLS)

12-1/4" Intermediate Hole Section

(Hold at 2.0° from 5,234' to 12,897')

7" Liner TOC at 8000' (500' over 7" liner top)/  
then cleanout cement to liner top & test lap  
7" TLH at 8,500' MD/ 8,058' VD with  
ZXP Liner Top Packer

FIT Min: 15.1 ppg

8-1/2" Production Hole Section

Planned TD 12,897' MD / 12,453' TVD

30", 118.6#, Welded Conductor grouted at 103' MD/ 103' VD

MW: 10.0 ppg (WBM)

18-5/8", 87.5#, J-55 BTC Structural Csg cmt'd at 600' MD/ 600' VD

MW: 10.0 ppg (WBM)

*BFW - 2,278' MD / 2,154' VD*

13-3/8", 72#, L-80, BTC Surface Csg cmt'd at 2,375' MD/ 2,238' VD

MW: 9.7 ppg at 3,000' MD / 2,777' VD'

*Base of Potential Gas Sands - 4,079' MD/ 3,708' VD*

*Callender 1 (AA) - 4,238' MD/ 3,845' VD*

MW: 9.7 ppg at 4,500' MD / 4,080' VD

9-5/8", 53.5#, T-95, LTC Int Csg Surf - 5,000 MD/ 4,561' VD

MW: 9.7 ppg at 5,500' MD / 5,060' VD

*Callender 8 (D) - 7,336' MD / 6,895' VD*

MW: 10.5 ppg at 7,500' MD / 7,059' VD

9-5/8", 53.5#, P-110 LTC Int Csg 5,000 - 8,800 MD/ 8,358' VD

MW: 11.5 ppg at 8,850' MD / 8,408' VD

*Division C - 8,872' MD / 8,431' VD*

*C50 Backthrust - 9,370' MD / 8,928' VD*

*Division D - 10,048' MD / 9,606' VD*

*Division E - 10,746' MD / 10,303' VD*

*Division F (Volcanics) - 11,074' MD / 10,631' VD*

*C50 Thrust - 11,584' MD / 11,141' VD*

*Division F (Repeat) - 11,726' MD / 11,283' VD*

*Schist Basement - 12,621' MD / 12,177' VD*

7", 32#, P-110, BTC Prod Liner at 12,897' MD/ 12,453' VD

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

Cypress, California  
January 27, 2011

CONFIDENTIAL WELL

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

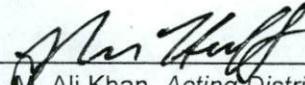
I have received your **supplementary** notice dated **1/13/2011**, of your intention to **drill** well **DOM-002**,  
API# **037-27148**, Sec. **33**, T. **3S**, R. **13W**, **SB B. & M.**, **Dominguez** Field.

The proposal is currently under review by Division personnel. The permit will be issued when the review is complete. If you have any questions, please contact John Huff at (714) 816-6847.

Elena M. Miller

\_\_\_\_\_  
*State Oil and Gas Supervisor*

By: \_\_\_\_\_  
For: \_\_\_\_\_

  
M. Ali Khan, Acting District Deputy

JCH:jch

File copy

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

No. P 110-0740

PERMIT TO CONDUCT WELL OPERATIONS

208  
Field Code

00  
Area Code

--  
(New Pool Code)

--  
(Old Pool Code)

CONFIDENTIAL WELL  
EXPLORATORY WELL

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.  
Long Beach, CA 90801

Cypress, California  
November 15, 2010

Your proposal to drill well DOM-002, A.P.I. No. 037-27148, Section 33, T. 3S, R. 13W, S.B. B. & M., Dominguez Field, -- area, Division C, Division D, Division E, Division F, and Schist Basement pools, Los Angeles County, dated 8/25/2010, received 8/26/2010 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
  - a. A 6" diverter system on the 18 5/8" casing.
  - b. Class IVB5M, with hydraulic controls, on the 13 3/8" casing prior to setting the 9 5/8" casing.
  - c. Class IVB10M, with hydraulic controls, on the 13 3/8" casing after setting the 9 5/8" casing.
2. Drilling fluid in sufficient quantity and quality to control all subsurface conditions in order to prevent blowouts shall be used.
3. Sufficient material to control lost circulation of hole fluid shall be available for immediate use at the well site.
4. The 13 3/8" casing shall be set prior to drilling below 2250' TVD, and cemented with sufficient cement to fill behind the casing from the casing shoe to the surface.
5. The 9 5/8" casing is cemented with sufficient cement to fill behind the casing to at least 500' above all oil, gas zones and/or anomalous pressure intervals.
6. A fluid-entry test shall be performed to demonstrate that no fluid has access to the well between the 9 5/8" and 7" casings after cleaning out below the top of the 7" casing.
7. A directional survey shall be made and filed with this Division within 15 days of completion of drilling.
8. A Supplementary Notice shall be filed with this Division prior to completion of the well.
9. This Division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
10. THIS DIVISION SHALL BE NOTIFIED TO:
  - a. Inspect the diverter system prior to drilling out cement in the shoe of the 18 5/8" casing.
  - b. Witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the 13 3/8" casing.
  - c. Witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the 9 5/8" casing.
  - d. Witness a test to demonstrate there is no fluid access to the well between the 9 5/8" and 7" casings, after cleaning out below the top of the casing lap.

(Continued on Page 2)

JCH:jch  
cc: Update  
EDP

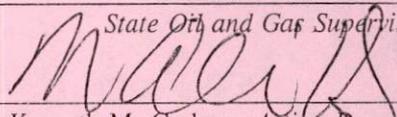
BLANKET BOND

Engineer: John Huff

Phone: 714/816-6847

Elena M. Miller  
State Oil and Gas Supervisor

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By   
For Kenneth M. Carlson, Acting 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. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal and local laws, regulations and ordinances.

**NOTE:**

1. A crew drill may be required at the time of the blowout prevention equipment test.
2. The base of the freshwater zone is at 2285' +/- MD (2154' +/- TVD).
3. This well has been granted confidential status for two years from the cessation of drilling operations.



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

#110-0740

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
DB JM	11/6/10	11/5/10

## NOTICE OF INTENTION TO DRILL NEW WELL

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://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 drill well DOM-002, well type Producer, API No. 037-27148 (Assigned by Division)

Sec. 33, T.3S, R. 13W, S.B. B&M., Dominguez Field, Los Angeles County.

Legal description of mineral-right lease, consisting of 440+/- acres (attach map or plat to scale), is as follows:  
See attached Mineral Lease Legal Description and Map for Hellman leases.

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

Location of well \_\_\_\_\_ feet \_\_\_\_\_ along section  / property  line and \_\_\_\_\_ feet \_\_\_\_\_ (Direction) (Check one)

at right angles to said line from the \_\_\_\_\_ corner of section  / property  and \_\_\_\_\_ (Check one)

Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Latitude: 33.863550 Longitude: 118.244037

If well is to be directionally drilled, show proposed coordinates (from surface location) and true vertical depth at total depth:  
2456.8 feet North and 612.9 feet East. Estimated true vertical depth 12,219.3'. Elevation of ground above sea level 168.87 feet. All depth measurements taken from top of Drill Floor that is 25.12 feet above ground. (Derrick Floor, Rotary Table, or Kelly Bushing)

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

Is a California Environmental Quality Act (CEQA) document required by a local agency? Yes  No . If yes, see next page.  
Oil & gas drilling was evaluated by the City of Carson in the Dominguez Technology Centre Specific Plan/Environmental Impact Report (SCH #1989010150).

### PROPOSED CASING PROGRAM

SIZE OF CASING (Inches API)	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	FORMATION PRESSURE (Estimated Maximum)	CALCULATED FILL BEHIND CASING (Linear Feet)
13-3/8"	72#	L-80	Surface	2,350'	2,350'	1,005 psi	2350' (To Surface)
9-5/8"	53.5#	T95 & P110	Surface	9,450	9,450	4,032 psi	6800' (TOC at 2,650')
7"	32#	P110	9,150	12,866'	12,866'	8,541 psi	3716' (TOC at 9,150)'

(Attach a complete drilling program including wellbore schematics in addition to the above casing program.)

Estimated depth of base of fresh water: 2,285' Anticipated geological markers: Callender 1 to 8, Div. C to Schist (Name, depth)

Intended zone(s) of completion: Div. C to Catalina Schist, 12,219' VD, 8,541 psi Estimated total depth: 12,868' (Name, depth and expected pressure)

**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  
OXY USA Inc.

Address <u>301 East Ocean Blvd.</u>	City/State <u>Long Beach, CA</u>	Zip Code <u>90801</u>
Name of Person Filing Notice <u>Chris Phillips</u>	Telephone Number: <u>(562) 495-9349</u>	Signature 
Individual to contact for technical questions: <u>Mike McCarter</u>	Telephone Number: <u>562-624-3247</u>	E-Mail Address: <u>Mike_McCarter@oxy.com</u>
		Date <u>8/25/2010</u>

This notice and an indemnity or cash bond shall be filed, and approval given, before drilling begins. 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.

8475-720

### 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.

This form may be printed from the DOGGR website at [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

**New Well: DOM-002**

New Cased Hole Producer

Depths refer to the DF of 193.87' ASL

(Drill Floor elevation of 25.12' plus ground elevation of 168.75')

30", 118.6# Welded conductor grouted at 100' md/ 100' vd

(Conductor bottom 76' below ground level, top 1' above cellar floor)

Proposed BFW at 2285' md/ 2154' vd/ 1960.1' vss

***Drilling Rig Operations:***

Skid and rig up H&P 236 drilling rig. Install riser on 30" conductor and connect flowline to pits. Take on 10 ppg KCl/Gelite/SP101 clay base mud into pits.

Pickup 24" tricone bit on 5" drill pipe and cleanout 30" conductor to 100' md. Circulate and condition 10.0 ppg KCl/Gelite/SP101 clay base mud. Pickup 24" Packed Hole drilling assembly with 8" MWD/8" DC's on 6-5/8" HWDP. Drill and survey 24" vertical hole from 100' to 310' md. Wipe hole to conductor at 100' and run back to bottom. Circulate and condition mud for casing. Run 18-5/8", 87.5#, J-55, ERW, BTC 2<sup>nd</sup> casing (2<sup>nd</sup> Conductor) to 300' md and land in elevators on rotary table. Run stinger on 5" drill pipe and stab into float collar. Cement 18-5/8" casing, watching for cement returns at surface and then displace with mud. Pull 5" drill pipe and stinger. While WOC, washout and remove riser, then cut off 18-5/8" casing. Install 21-1/4", 2M weld-on starter head, 21-1/4", 2M annular preventer, and bell nipple with flowline. Run 6" diverter line, with 6" full opening valve, to the mud pits.

Pickup 17-1/2" tricone bit and NB stab on cleanout assembly. Cleanout 18-5/8" surface casing to 258'. Pressure test casing to 300 psi. Circulate and condition 10.0 ppg KCl/Gelite/SP101 clay base mud. Drill out float collar, cement, and shoe at 300'. Pickup 12-1/4" Conventional Steerable BHA with 8" MM/8" MWD/8" NMDC's/6-5/8" HWDP/5" HWDP on 5" drill pipe. Directionally drill and survey 12-1/4" hole from 300' to 2,360' md. Wipe hole. Circulate and condition hole for logs, POH. Rig up Schlumberger wireline. Run wireline tools (Density, Neutron, GR/AIT, & Dipole Sonic) to 2,360' and log to surface. Pickup 17-1/2" BNHO and open 12-1/4" hole to 17-1/2" from 300' to 2,360'. Circulate and condition hole for casing, POH. Run 13-3/8", 72#, L-80, BTC surface casing to 2,350' md and land in elevators on rotary table. Run stab-in on 5" drill pipe and cement, with returns to surface. While WOC, remove 21-1/4" annular preventer and bell nipple. Cut off 21-1/4" starting wellhead and weld 13-5/8", 5M wellhead onto 13-3/8" casing. Install 13-5/8", 5M x 13-5/8", 10M tieback spool and 13-5/8", 10M spacer spool. Nipple up 13-5/8", 10M BOPE and bell nipple with flowline. Install test plug and pressure test BOPE.

Pickup 12-1/4" tricone bit and NB stab on cleanout assembly, with 13-3/8" casing scraper 30' up. Pressure test casing and BOPE to 3,150 psi. Drill out float at 2,266' and cement down to 2,340' (10' above casing shoe). Circulate and condition 10.0 ppg KCl/Gelite/SP101 clay base mud. Drill out 13-3/8" casing shoe at 2,350', 10' of cement, and 10' of new hole to 2,370'. Perform FIT to 12.2 ppg EMW. Pickup 12-1/4" PDC bit on a Rotary Steerable System with 8" MWD/OnTrak LWD/8" NMDC's/6-5/8"

## DOGGR Notice of Intention to Drill New Well - ATTACHMENT

HWDP/5" HWDP on 5" drill pipe. Directionally drill, survey, and log 12-1/4" hole from 2370' to 9,460' md / 8,820' vd. Core 12-1/4" hole as directed. Scheduled mud weight is between 9.2 and 9.8 ppg, or as needed to prevent flow. Wipe hole. Circulate and condition hole for logs, POH. Rig up Schlumberger wireline. Run wireline tools (Density, Neutron, GR/AIT, & Sonic Scanner) to 9,460' and log up to 2,150'. Run RFT tool on drill pipe and take pressure stations as directed. Pickup BNHO and ream 12-1/4" hole from 2350' to 9,460', as needed. Circulate and condition hole for casing, POH. Run 9-5/8", 53.5#, P-110 (9,460'-5,500') and T-95 (5,500'-Surface), LTC intermediate casing. Land casing on hanger with 9-5/8" shoe at 9,450'. Cement 9-5/8" casing around shoe, with TOC at 2650'. WOC. Install test plug and pressure test BOPE.

Pickup 8-1/2" tricone bit and NB stab on cleanout assembly with 9-5/8" casing scraper 30' up. Pressure test casing and BOPE to 7,450 psi. Drill out float collar at 9,366' and cement down to 9,430' (20' above shoe). Change over 10.2 ppg LVT 200 Synthetic Oil Based Mud. Drill out 9-5/8" casing shoe at 9,450', 10' of cement, and 10' of new hole to 9,470'. Perform FIT to 16.1 ppg EMW. Pickup 8-1/2" PDC bit on Rotary Steerable System with 6-3/4" MWD/OnTrak LWD (GR, Res, ECD)/6-3/4" NMDC's/5" HWDP on 5" drill pipe. Directionally drill, survey, and log 8-1/2" hole from 9,470' to planned TD of 12,868' TMD/ 12,219' TVD). Core 8-1/2" hole as directed. Scheduled mud weight is between 10.2 ppg and 13.7 ppg, or as needed to prevent flow. Wipe hole. Circulate and condition hole for logs, POH. Rig up Schlumberger wireline. Run wireline tools (Density, Neutron, GR/AIT, Sonic Scanner, and OBMI) to 12,868' and log up to 9,250'. Run RFT tool on drill pipe and take pressure stations as directed. Pickup BNHO and ream 12-1/4" hole from 9,450' to 12,868', as needed. Circulate and condition hole for liner, POH. Run 7", 32#, P-110 production liner on 5" drill pipe to 12,866' (2' off bottom) and set BOT Hyflo III liner hanger at 9,450' md/ 8,810' vd (300' lap inside 9-5/8" casing). Release from hanger. Cement 7" liner and bring cement to 8,950' (500' over liner top). Set 7" liner top packer and test. Reverse and pull liner setting tool.

Pickup 8-1/2" tricone bit and 9-5/8" casing scraper on 5" drill pipe. Clean out cement to 7" liner top at 9,450'. Lay down 3,450' of 5" drill pipe. Pickup 6" tricone bit and 7" casing scraper on 3,450' of 3-1/2" drill pipe tail. Run in on 5" drill pipe and pressure test 9-5/8" casing to 7,450 psi. Clean out cement at 7" liner top. Pressure test 9-5/8" casing and 7" lap to 7,450 psi. Continue in hole and cleanout to landing collar at 12,782'. Pressure test 9-5/8" casing, 7" lap, and 7" liner to 7,450 psi. Laydown 5" drill pipe, 3-1/2" drillpipe, and tools. Nipple down 13-5/8", 10M BOPE. Install 13-5/8", 10M x 7-1/16", 10M tubing head spool. Install 7-1/16", 10M x 3-1/16", 10M tree. Pressure test spool and production tree to 7450 psi. Rig down and move out H&P 236 drilling rig. Clean location.

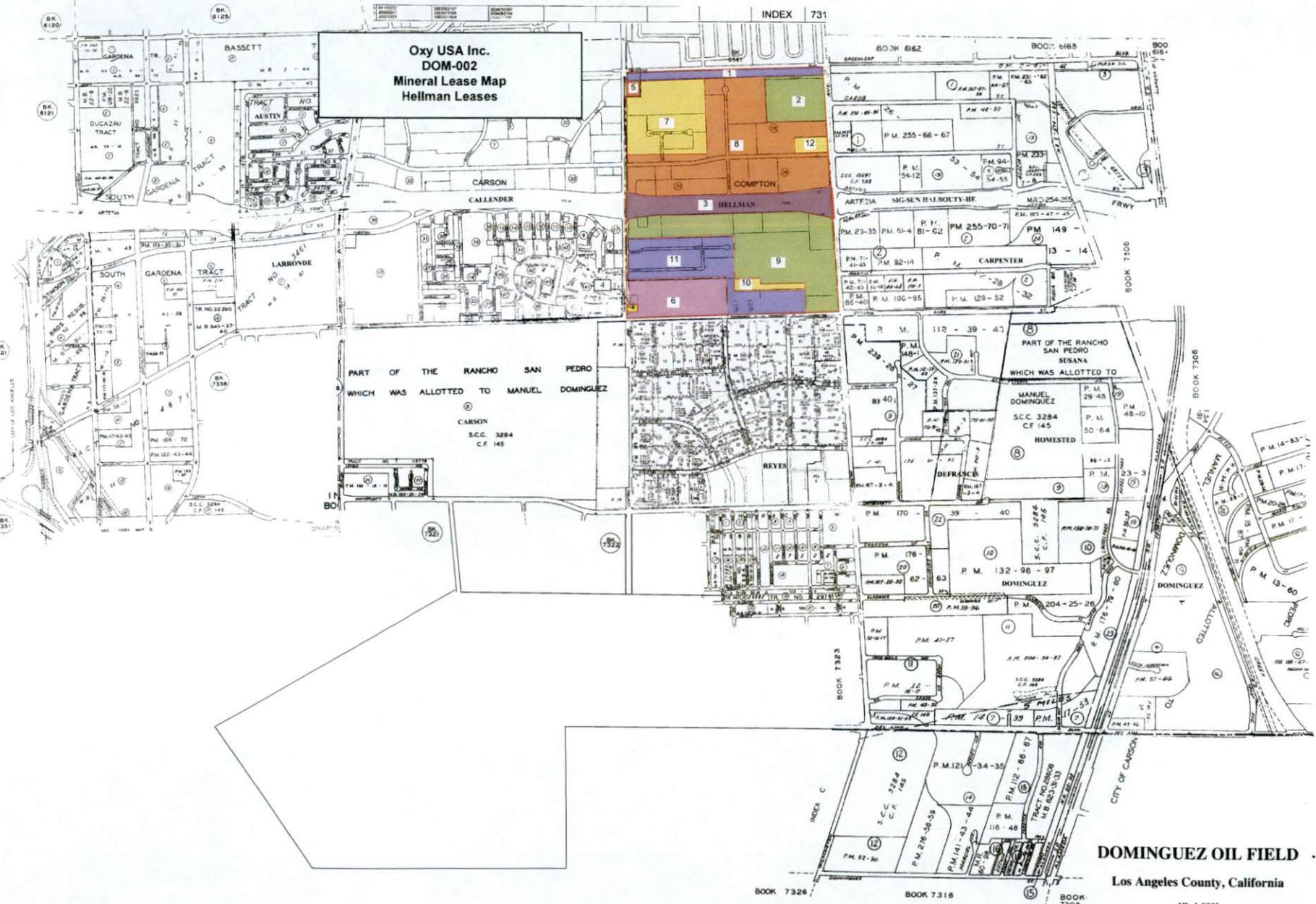
### Notes:

- This "Notice of Intention to Drill New Well" is strictly for drilling and casing the well. A "Supplementary Notice" will be submitted later to complete the well.
- Upon completion of the proposed work, a "Well Summary Report" will be submitted to the CDOGGR.

Oxy USA Inc.  
DOM-002  
Mineral Lease Map  
Hellman Leases

92

REC'D AUG 26 2010



**DOMINGUEZ OIL FIELD**  
Los Angeles County, California

1"=1,000'

Revised 7/30/2009

Doc 5/23/08

CHARLES WILLARD

# Oxy USA Inc. DOM-002 Surface Lease Plat

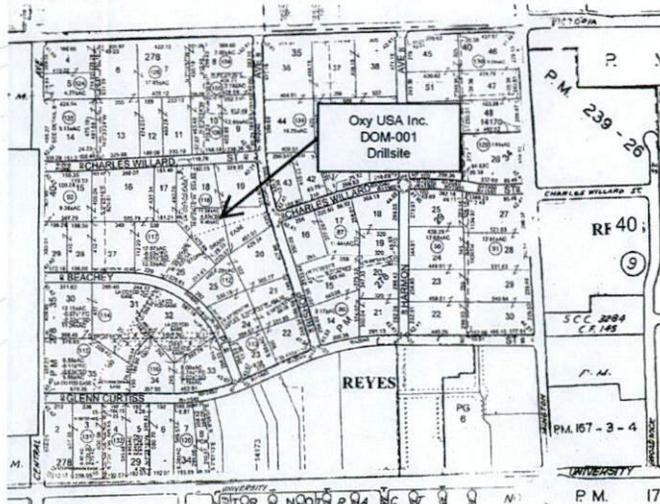
BISHOP

PROPOSED  
BUILDING  
DTCW LOT 12  
77,653 SF FOOTPRINT  
4,240 SF MEZZANINE  
B / S-1 / F OCCUPANCY  
TYPE III-N

1/2% SLOPE  
410'

Drillsite Location  
APN: 7319-039-118 Portion

AC PAVED YARD AREA



SITE PLAN DTCW LOT 12



0' 10' 20' 50' 100'

REC'D AUG 26 2010

☉ CHARLES WILLARD ST.

☉ BISHOP AVE.

DOM 002
NAD 83/NGVD 29
N: 1,772,815.0453
E: 6,487,578.1795
ELEV: 168.97
DOM 002
NAD 27/NGVD 29
N: 4,062,757.4849
E: 4,214,076.8110
ELEV: 168.97

DOM 001
NAD 83/NGVD 29
N: 1,772,811.9706
E: 6,487,568.6758
ELEV: 168.97
DOM 001
NAD 27/NGVD 29
N: 4,062,754.3787
E: 4,214,067.3177
ELEV: 168.97

EXISTING CATCH BASIN  
TG=170.38  
INV.=165.60

EXISTING STORM DRAIN  
MANHOLE

PROPOSED  
CONTAINMENT  
WALL

EXISTING  
UNDERGROUND  
2" STORM DRAIN

PROPOSED  
CONTAINMENT  
WALL

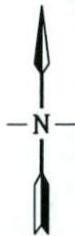
EXISTING CATCH BASIN  
TG=162.49  
INV.=157.69

EXISTING CATCH BASIN  
TG=165.35  
INV.=163.23

EXISTING CHAINLINK  
FENCE

EXISTING CHAINLINK  
FENCE

PROPOSED CONTAINMENT WALL

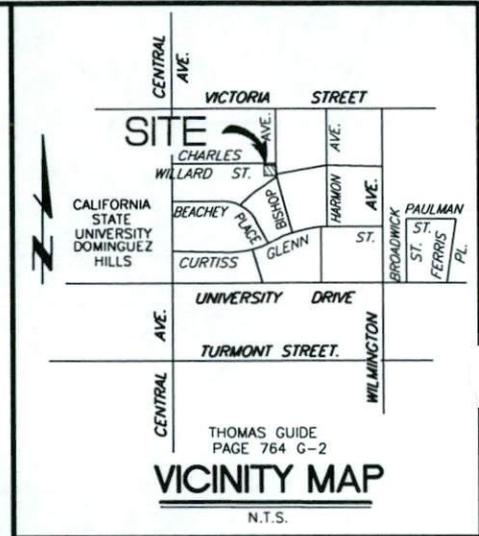


SCALE: 1" = 100'



**LEGEND**

---	LEASE LINE
---	CENTERLINE
●	PROPOSED WELL



**OXY USA INC.**



**JONES, CAHL & ASSOCIATES**  
CONSULTING ENGINEERS

18090 Beach Boulevard · Huntington Beach  
California 92648 · (714) 848-0566

**PROPOSED WELL  
DOM-002  
DRILL SITE PLAT  
DOMINGUEZ OIL FIELD**  
CARSON CALIFORNIA

DWG. NO. <b>10-1901</b>	SHEET NO. <b>1 OF 1</b>	REV. 
----------------------------	----------------------------	----------

24

RECD AUG 26 2010

**Oxy USA Inc.  
DOM-002  
Surface Lease  
Legal Description**

Those portions of Lots 18 and 19 of Parcel map No. 21929 and of Lot "B" of Lot Line Adjustment No. 169-02, in the City of Carson, Los Angeles County, California, as shown on Certificate of Compliance recorded September 9, 2002 as Instrument No. 02-2106620 of Official Records.

Beginning at the intersection of the north line of a City of Carson storm drain easement with the westerly line of Bishop Avenue, 80 feet wide, also being in the easterly line of said Lot 19; thence S 72° 27' 50" W 139 feet to the true point of beginning. Thence S 72° 27' 50" W 523 feet to a point in the westerly line of Lot 18; thence N 0° 29' 16" W 173.39 feet more or; thence N 87° E 478.45 feet more or less; thence southeasterly 44.47 feet more or less to the true point of beginning. Comprising approximately 1.4 acres.

The Premises include all depths from the surface down to five hundred (500) feet below the surface.

APN: 7319-039-118 portion

# Well: DOM-002 (Hellman Prospect) Field: Dominguez - Wellbore Schematic

MLM

08/25/10

30", 18-5/8", & 13-3/8" Csg - Returns to Surf

30", 118.6#, Welded Conductor grouted at 100' MD/ 100' VD

## 24" Conductor Hole Section

Install 21-1/4" Flange & N/U Diverter

MW: 10.0 ppg (WBM)

18-5/8", 87.5#, J-55 BTC 2nd Cond Csg cmt'd at 300' MD/ 300' VD

(KOP at 788', Build from vertical to 35.1° at 1957' with 3°/100' DLS)

MW: 10.0 ppg (WBM)

## 17-1/2" Surface Hole Section

Install 13-5/8" WH & N/U 10M BOPE

FIT Min: 12.2 ppg

TOC at 2,650' / 500' above top hydrocarbon

*BFW - 2,285' MD / 2,154' VD*

13-3/8", 72#, L-80 BTC Surf Csg cmt'd at 2,350' MD/ 2,207' VD

MW: 9.8 ppg at 3,000' MD / 2,739' VD

*Potential Shallow Gas Sands start at 3,150' MD/ 2,862' VD*

(Hold 35.1° from 1,957' to 4628')

*Base of Potential Gas Sands - 4,184' MD/ 3,708' VD*

*Callender 1 (AA) - 4,619' MD/ 4,064' VD*

## 12-1/4" Intermediate Hole Section

MW: 9.3 ppg at 5,000' MD / 4,395' VD

(Drop from 35.1° at 4,628' to

4.2° at 5,735' with 2.8°/100' DLS)

*Target #1 at 5,735' MD/ 5,106' VD*

(Hold 4.2° from 5,735' to 12,868' TD)

9-5/8", 53.5# T-95 LTC Int Csg Surface-5,500' MD/ 4,872' VD

*Callender 8 (D) - 7,385' MD / 6,752' VD*

MW: 9.0 ppg at 8,000' MD / 7,364' VD

*Division C - 9,428' MD / 8,789' VD*

Estimated 7" TLH - 9,150' MD/ 8,511' VD

MW: 9.3 ppg at 9,400' MD / 8,761' VD

9-5/8", 53.5#, P-110 LTC Int Csg 5,500'-9,450' MD/ 8,810' VD

*Division D - 10,172' MD / 9,530' VD*

MW: 10.2 ppg at 9,600' MD / 8,960' VD

*Division E - 10,868' MD / 10,224' VD*

MW: 10.6 ppg at 11,100' MD / 10,455' VD

*Division F (Volcanics) - 11,455' MD / 11,281' VD*

*Schist Basement - 11,722' MD / 11,076' VD*

MW: 10.9 ppg at 12,200' MD / 11,552' VD

*C50 Thrust - 12,270' MD / 11,623' VD*

MW: 12.1 ppg at 12,500' MD / 11,852' VD

*Schist Repeat - 12,529' MD / 11,881' VD*

MW: 13.7 ppg at 12,800' MD / 12,151' VD

7", 32#, P-110 LTC Prod Lnr 9,150'-12,866' MD/12,217' VD

TOC at 8,650' - 500' over 7" liner top, then cleanout to LT & test lap section

FIT Min: 16.1 ppg

## 8-1/2" Production Hole Section

*Target #2 at 12,618' MD/ 11,970' VD*

Planned TD 12,868' TMD / 12,219' TVD

**Oxy USA Inc.  
DOM-002  
Mineral Lease  
Legal Description  
Hellman Leases**

PARCEL 1:

ALL OIL, GAS, PETROLEUM AND OTHER MINERAL OR HYDROCARBON SUBSTANCES, PROVIDE THAT THE PROSPECTING THEREFOR AND THE DEVELOPING THEREOF SHALL BE DONE BY MEANS OF WELLS OR SHAFTS SUNK AND MAINTAINED ON ADJACENT LAND, AND IN SUCH MANNER AS NOT TO DAMAGE, ENDANGER OR INTERFERE WITH ANY STRUCTURE WHICH THE GRANTEE, ITS SUCCESSORS OR ASSIGNS MAY HEREAFTER LOCATE UPON THE BELOW DESCRIBED PROPERTY, IT BEING UNDERSTOOD THAT SUCH RESERVATION SHALL NOT GIVE TO THE GRANTORS, THEIR HEIRS, SUCCESSORS OR ASSIGNS ANY SURFACE RIGHTS WHATEVER UPON SAID PROPERTY, AS RESERVED BY CLARA HELLMAN HELLER, ET AL., BY DEED RECORDED FEBRUARY 4, 1928 AS INSTRUMENT NO. 42, IN BOOK 7729 PAGE 350 OF OFFICIAL RECORDS.

THE NORTHERLY 190 FEET OF THE 716.03 ACRE TRACT OF LAND ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF PARTITION OF A PART OF THE RANCHO SAN PEDRO IN CASE NO. 15697 OF THE SUPERIOR COURT OF LOS ANGELES COUNTY, PARTLY IN THE CITY OF COMPTON AND PARTLY IN THE CITY OF CARSON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA.

SAID LAND IS NOW SHOWN AS LOTS 6 AND 7, AS SHOWN ON MAP NO. 7, OF PROPERTY OF SOUTHERN CALIFORNIA EDISON COMPANY, LTD., RECORDED IN BOOK 2 PAGE 43, ET SEQ., OF OFFICIAL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2:

ALL OIL, GAS, MINERALS AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER SAID LAND WITHOUT RIGHT OF ENTRY ON SAID LAND FOR THE PURPOSES OF REMOVING SAME BUT WITH THE RIGHT OF REMOVAL, BY SLANT OR OTHER GROUND DRILLING FROM OTHERS LANDS, AS RESERVED BY CLARA HELLMAN HELLER, EDWARD HELLMAN HELLER, FLORENCE HELLMAN EHRMAN, ET AL., BY DEED RECORDED JUNE 11, 1951 AS INSTRUMENT NO. 876, OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT, IN THE RANCHO SAN PEDRO, ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF PARTITION OF A PORTION OF SAID RANCHO IN CASE NO. 15697, IN THE SUPERIOR COURT OF LOS ANGELES COUNTY, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, A CERTIFIED COPY OF

SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION OF THE WEST LINE OF WILMINGTON AVENUE WITH A LINE PARALLEL WITH AND 190 FEET SOUTHERLY FROM THE NORTH LINE OF SAID ALLOTMENT; THENCE SOUTH 3° 15' EAST ALONG THE WEST LINE OF WILMINGTON AVENUE 860.17 FEET; THENCE SOUTH 88° WEST PARALLEL WITH THE NORTH LINE OF SAID ALLOTMENT 1089 FEET; THENCE NORTH 3° 15' WEST 860.17 FEET TO SAID FIRST MENTIONED PARALLEL LINE; THENCE NORTH 88° EAST ALONG SAID PARALLEL LINE 1089 FEET TO THE POINT OF BEGINNING.

PARCEL 3:

ALL OIL, OIL RIGHTS, MINERALS, MINERAL RIGHTS, NATURAL GAS, NATURAL GAS RIGHTS, AND OTHER HYDROCARBONS, BY WHATSOEVER NAME KNOWN, THAT MAY BE WITHIN OR UNDER THE PARCELS OF LAND HEREINAFTER DESCRIBED, WITHOUT, HOWEVER, THE RIGHT EVER TO DRILL, DIG OR MINE THROUGH THE SURFACE OF SAID LAND THEREFOR, OR OTHERWISE IN SUCH MANNER AS TO ENDANGER THE SAFETY OF ANY HIGHWAY THAT MAY BE CONSTRUCTED ON THE LANDS HEREBY CONVEYED, AS RESERVED BY CLARA HELLMAN HELLER, A WIDOW, EDWARD HELLMAN HELLER AND ELINOR R. HELLER, HIS WIFE, ET AL., BY DEED RECORDED OCTOBER 27, 1954 AS INSTRUMENT NO. 3130, OFFICIAL RECORDS.

THOSE PORTIONS OF THE 716.03 ACRE TRACT, IN THE RANCHO SAN PEDRO, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF PARTITION OF A PORTION OF SAID RANCHO, IN CASE NO. 15697 OF THE SUPERIOR COURT OF SAID COUNTY, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185, OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

SUB-PARCEL A:

A STRIP OF LAND 135 FEET WIDE BEING 70 FEET NORTHERLY OF AND 65 FEET SOUTHERLY OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT A POINT IN THE CENTER LINE OF CENTRAL AVENUE, 40.00 FEET WIDE (AS DESCRIBED IN DEED TO SAID COUNTY OF LOS ANGELES, RECORDED IN BOOK 150 PAGE 635 OF DEEDS, IN SAID RECORDER'S OFFICE) DISTANT NORTH 0° 13' 14" WEST, 2155.40 FEET FROM A BRASS CAP MARKED "SURVEY CONTROL TRAVERSE STATION, R. E. NO. 2177; THENCE SOUTH 89° 04' 11" EAST, 102.34 FEET TO A CURVE CONCAVE NORTHERLY AND HAVING A RADIUS OF 10,000 FEET; THENCE EASTERLY ALONG SAID LAST MENTIONED CURVE, THROUGH AN ANGLE OF 2° 55' 09", AN ARC DISTANCE OF 509.49 FEET; THENCE TANGENT NORTH 88° 00' 40" EAST, 3226.11 FEET TO A POINT IN THE CENTER LINE OF WILMINGTON AVENUE, 66.00 FEET WIDE, AS SHOWN ON COUNTY

SURVEYOR'S MAP NO. B-638 ON FILE IN THE OFFICE OF THE COUNTY SURVEYOR OF SAID COUNTY, SAID LAST MENTIONED POINT BEING DISTANT NORTH 3° 13' 42" WEST, ALONG SAID CENTER LINE OF WILMINGTON AVENUE, 2132.76 FEET FROM THE INTERSECTION OF SAID CENTER LINE WITH THE CENTER LINE OF VICTORIA STREET, 66.00 FEET WIDE, AS SAID STREET IS SHOWN ON SAID COUNTY SURVEYOR'S MAP.

EXCEPTING THEREFROM THAT PORTION THEREOF INCLUDED WITHIN SAID CENTRAL AVENUE.

SUB-PARCEL B:

THAT PORTION OF SAID 716.03 ACRE TRACT, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY LINE OF SUB-PARCEL A ABOVE WITH THE EASTERLY LINE OF SAID CENTRAL AVENUE; THENCE ALONG SAID EASTERLY LINE NORTH 0° 24' 07" WEST, 80.45 FEET; THENCE SOUTH 26° 31' 54" EAST, 68.10 FEET; THENCE SOUTH 44° 04' 11" EAST, 28.28 FEET TO SAID NORTHERLY LINE; THENCE ALONG SAID NORTHERLY LINE NORTH 89° 04' 11" WEST, 49.54 FEET TO SAID POINT OF BEGINNING.

SUB-PARCEL C:

THAT PORTION OF SAID 716.03 ACRE TRACT, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHERLY LINE OF SUB-PARCEL A ABOVE WITH THE EASTERLY LINE OF SAID CENTRAL AVENUE; THENCE ALONG SAID EASTERLY LINE SOUTH 0° 24' 07" EAST, 84.52 FEET; THENCE NORTH 24° 46' 11" EAST, 70.51 FEET; THENCE NORTH 45° 55' 49" EAST, 28.28 FEET TO SAID SOUTHERLY LINE OF SUB-PARCEL A; THENCE ALONG SAID SOUTHERLY LINE NORTH 89° 04' 11" WEST, 50.47 FEET TO SAID POINT OF BEGINNING.

SUB-PARCEL D:

THAT PORTION OF SAID 716.03 ACRE TRACT, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY LINE OF SUB-PARCEL A ABOVE WITH THE CENTER LINE OF SAID WILMINGTON AVENUE; THENCE ALONG SAID CENTER LINE NORTH 3° 13' 42" WEST, 54.98 FEET; THENCE SOUTH 86° 46' 18" WEST, 33.00 FEET TO THE WESTERLY LINE OF SAID WILMINGTON AVENUE; THENCE SOUTH 27° 14' 07" WEST, 33.52 FEET; THENCE SOUTH 36° 40' 15" WEST, 32.02 FEET TO SAID NORTHERLY LINE OF SUB-PARCEL A; THENCE ALONG SAID NORTHERLY LINE NORTH 88° 00' 40" EAST, TO SAID POINT OF BEGINNING.

SUB-PARCEL E:

THAT PORTION OF SAID 716.03 ACRE TRACT, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTHERLY LINE OF SUB-PARCEL A ABOVE WITH SAID CENTER LINE OF WILMINGTON AVENUE; THENCE ALONG SAID CENTER LINE SOUTH 3° 13' 42" EAST, 59.98 FEET; THENCE SOUTH 86° 46' 18" WEST, 33.00 FEET TO THE WESTERLY LINE OF SAID WILMINGTON AVENUE; THENCE NORTH 28° 27' 51" WEST, 39.87 FEET; THENCE NORTH 40° 38' 55" WEST, 32.02 FEET TO SAID SOUTHERLY LINE OF SUB-PARCEL A; THENCE ALONG SAID SOUTHERLY LINE NORTH 88° 00' 40" EAST, TO SAID POINT OF BEGINNING.

PARCEL 4:

ALL GAS, OIL AND OTHER HYDROCARBON SUBSTANCES AND ALL OTHER MINERALS IN AND FROM SAID PROPERTY, PROVIDED, HOWEVER, NO RIGHT IS RESERVED TO THE GRANTORS, THEIR SUCCESSORS OR ASSIGNS, TO ENTER ON OR FROM THE SURFACE OF SAID PROPERTY; THE RIGHT TO ENTER THE SUBSURFACE OF SAID PROPERTY, WHICH IS ALSO RESERVED, SHALL BE AT ANY POINT BELOW A DEPTH OF ONE HUNDRED (100) FEET FROM THE SURFACE THEREOF (MEASURED VERTICALLY FROM THE SURFACE THEREOF) IN ORDER TO TAKE FROM SAID PROPERTY AND REDUCE TO THEIR POSSESSION ANY OIL, GAS AND OTHER HYDROCARBON SUBSTANCES AND ALL OTHER MINERALS, AS RESERVED BY CLARA HELLMAN HELLER, EDWARD HELLMAN HELLER, ET AL., BY DEED RECORDED FEBRUARY 19, 1957 AS INSTRUMENT NO. 1778, OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT, IN THE RANCHO SAN PEDRO, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF PARTITION OF A PORTION OF SAID RANCHO IN CASE NO. 15697 OF THE SUPERIOR COURT OF SAID COUNTY, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING WITHIN THE FOLLOWING DESCRIBED BOUNDARIES:

BEGINNING AT THE SOUTHWEST CORNER OF PARCEL 6, AS SHOWN ON MAP RECORDED IN BOOK 2 PAGE 243 TO 248 INCLUSIVE OF OFFICIAL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE NORTH 87° 58' 30" EAST, ALONG THE SOUTHERLY LINE OF SAID PARCEL 6, A DISTANCE OF 10.00 FEET; THENCE SOUTH 0° 22' 45" EAST, PARALLEL TO THE EAST LINE OF CENTRAL AVENUE, 40 FEET IN WIDTH, 4255.91 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 89° 37' 15" EAST, 85.00 FEET; THENCE SOUTH 0° 22' 45" EAST, 100.00 FEET; THENCE SOUTH 89° 37' 15" WEST, 95.00 FEET; THENCE NORTH 0° 22' 45" WEST, 100.00 FEET; THENCE NORTH 89° 37' 15" EAST, 10.00 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL 5:

ALL OIL, GAS, PETROLEUM AND OTHER MINERAL OTHER HYDROCARBON SUBSTANCES IN AND UNDER OR WHICH MAY BE PRODUCED FROM SAID LAND, TOGETHER WITH THE RIGHT TO USE THAT PORTION ONLY OF SAID LAND WHICH UNDERLIES A PLANE PARALLEL TO AND FIVE HUNDRED (500) FEET BELOW THE PRESENT SURFACE OF SAID LAND, FOR THE PURPOSE OF PROSPECTING FOR, DEVELOPING AND/OR EXTRACTING SAID OIL, GAS, PETROLEUM AND OTHER MINERAL OTHER HYDROCARBON SUBSTANCES FROM SAID LAND BY MEANS OF WELLS DRILLED INTO SAID SUBSURFACE OF SAID LAND FROM DRILL SITES LOCATED ON OTHER LAND, IT BEING EXPRESSLY UNDERSTOOD AND AGREED THAT SAID GRANTORS, THEIR HEIRS AND ASSIGNS, SHALL HAVE NO RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, OR TO USE SAID LAND OR ANY PORTION THEREOF TO SAID DEPTH OF FIVE HUNDRED (500) FEET, FOR ANY PURPOSE WHATSOEVER, AS RESERVED BY CLARA HELLMAN HELLER, EDWARD HELLMAN HELLER, ET AL., BY DEED RECORDED JUNE 25, 1957 AS INSTRUMENT NO. 471, OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT IN THE RANCHO SAN PEDRO, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF DISTRIBUTION OF SAID RANCHO IN CASE NO. 15697 OF THE SUPERIOR COURT OF THE STATE OF CALIFORNIA IN AND FOR THE COUNTY OF LOS ANGELES, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185, OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF LOT 6, AS SHOWN ON THE MAP (SHEET 3 OF 6 SHEETS ENTITLED "PROPERTY OF SOUTHERN CALIFORNIA EDISON COMPANY, LTD., MAP NO. 7," RECORDED IN BOOK 2 PAGES 43 TO 48 INCLUSIVE, OF OFFICIAL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, WITH THE EASTERLY LINE OF CENTRAL AVENUE, 40.00 FEET WIDE, AS CONVEYED TO THE COUNTY OF LOS ANGELES BY DEED RECORDED FEBRUARY 6, 1886 IN BOOK 150 PAGE 635, OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE ALONG SAID EASTERLY LINE, SOUTH 00° 47' 33" EAST, 290.00 FEET; THENCE NORTH 89° 12' 27" EAST, 280.00 FEET; THENCE NORTH 00° 47' 33" WEST, 298.18 FEET, MORE OR LESS, TO SAID SOUTH LINE OF LOT 6; THENCE WESTERLY, ALONG SAID SOUTH LINE, TO THE POINT OF BEGINNING.

PARCEL 6:

ALL OIL, GAS, PETROLEUM, HYDROCARBON SUBSTANCES, WATER AND OTHER MINERALS BELOW A DEPTH OF 500 FEET MEASURED VERTICALLY FROM THE PRESENT SURFACE OF SAID LAND TOGETHER WITH THE RIGHT OF ENTRY BELOW SAID DEPTH OF 500 FEET BY SLANT OR DIRECTIONAL DRILLING FROM OTHER LANDS TO DEVELOP AND PRODUCE OIL, GAS, PETROLEUM HYDROCARBON SUBSTANCES, WATER AND OTHER MINERALS, AND THE RIGHT TO USE THE STRUCTURES BELOW SAID DEPTH OF 500 FEET FOR THE STORAGE AND SUBSEQUENT REMOVAL OF GAS OR OTHER SUBSTANCES, BUT

WITHOUT ANY RIGHT OF SURFACE ENTRY, AS RESERVED BY LLOYD W. DINKELSPIEL, JR., AND FRANCES D. GREEN, ET AL., BY DEEDS RECORDED APRIL 27, 1966 AS INSTRUMENT NOS. 979 THROUGH 986, INCLUSIVE, OFFICIAL RECORDS, AND BY UNION OIL COMPANY OF CALIFORNIA, A CALIFORNIA CORPORATION, BY DEED RECORDED JULY 9, 1992 AS INSTRUMENT NO. 92-1250316, OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT, IN THE RANCHO SAN PEDRO, PARTIALLY IN THE CITY OF CARSON, AND PARTIALLY IN THE UNINCORPORATED LAND OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY THE DECREE OF PARTITION OF A PORTION OF SAID RANCHO IN CASE NO. 15697 OF THE SUPERIOR COURT OF SAID COUNTY, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, RECORDS OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE EASTERLY LINE OF CENTRAL AVENUE, 40 FEET WIDE, AS DESCRIBED IN THE DEED TO THE COUNTY OF LOS ANGELES, RECORDED IN BOOK 150 PAGE 635 OF DEEDS, RECORDS OF SAID COUNTY, WITH THE NORTHERLY LINE OF VICTORIA STREET, 66 FEET WIDE, AS SHOWN ON THE MAP OF TRACT NO. 25660 RECORDED IN BOOK 657 PAGES 67 TO 72 OF MAPS, RECORDS OF SAID COUNTY; THENCE ALONG SAID NORTHERLY LINE NORTH 87° 59' 40" EAST 1850.80 FEET; THENCE NORTH 2° 00' 20" WEST 701.70 FEET; THENCE PARALLEL WITH SAID NORTHERLY LINE, SOUTH 87° 59' 40" WEST 1830.75 FEET TO SAID EASTERLY LINE OF CENTRAL AVENUE; THENCE ALONG SAID EASTERLY LINE SOUTH 0° 22' 08" EAST TO THE NORTHWESTERLY CORNER OF THE LAND DESCRIBED IN THE DEED TO THE SOUTHERN CALIFORNIA GAS COMPANY, RECORDED FEBRUARY 19, 1957 AS INSTRUMENT NO. 1778 IN BOOK 53680 PAGE 302 OF OFFICIAL RECORDS OF SAID COUNTY; THENCE ALONG THE NORTHERLY, EASTERLY, AND SOUTHERLY LINE OF THE LAND DESCRIBED IN SAID LAST MENTIONED DEED AS FOLLOWS: NORTH 89° 37' 52" EAST 95.00 FEET; SOUTH 0° 22' 08" EAST 100.00 FEET, AND SOUTH 89° 37' 52" WEST 95.00 FEET TO SAID EASTERLY LINE OF CENTRAL AVENUE; THENCE ALONG SAID LAST MENTIONED EASTERLY LINE SOUTH 0° 22' 08" EAST TO THE POINT OF BEGINNING.

A PORTION OF SAID LAND IS SHOWN AS PARCELS 1 TO 4, INCLUSIVE, OF PARCEL MAP NO. 24971, FILED IN BOOK 289 PAGES 13 AND 14 OF PARCEL MAPS, RECORDS OF SAID COUNTY.

PARCEL 7:

ALL MINERALS, GAS, OIL, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER THE BELOW DESCRIBED PROPERTY, TOGETHER WITH ALL NECESSARY AND CONVENIENT RIGHTS TO EXPLORE FOR, DEVELOP, PRODUCE, EXTRACT AND TAKE THE SAME, INCLUDING THE EXCLUSIVE RIGHT TO DIRECTIONALLY DRILL INTO AND THROUGH SAID LANDS AND INTO THE SUBSURFACE OF OTHER LANDS, SUBJECT TO THE EXPRESS LIMITATION THAT ANY AND ALL OPERATIONS FOR THE

EXPLORATION, DEVELOPMENT, PRODUCTION, EXTRACTING AND TAKING OF ANY OF SAID SUBSTANCES SHALL BE CARRIED ON AT LEVELS BELOW THE DEPTH OF 500 FEET FROM THE SURFACE OF THE BELOW DESCRIBED PROPERTY, BY MEANS OF MINES, WELLS, DERRICKS AND/OR OTHER EQUIPMENT FROM SURFACE LOCATIONS ON ADJOINING OR NEIGHBORING LAND LYING OUTSIDE OF THE BELOW DESCRIBED PROPERTY, AND SUBJECT FURTHER TO THE EXPRESS LIMITATION THAT THE FOREGOING RESERVATION SHALL IN NO WAY BE INTERPRETED TO INCLUDE ANY RIGHT OF ENTRY IN AND UPON THE SURFACE OF THE BELOW DESCRIBED STRIP OF LAND, AS RESERVED IN FINAL ORDER OF CONDEMNATION, SUPERIOR COURT CASE NO. 896596, TO I. W. HELLMAN, ET AL., A CERTIFIED COPY OF WHICH WAS RECORDED AUGUST 24, 1967 AS INSTRUMENT NO. 4226, OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT IN THE RANCHO SAN PEDRO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF DISTRIBUTION OF A PORTION OF SAID RANCHO IN CASE NO. 15697 OF THE SUPERIOR COURT OF THE STATE OF CALIFORNIA IN AND FOR THE COUNTY OF LOS ANGELES, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE SOUTH LINE OF LOT 6, AS SHOWN ON THE MAP (SHEET 3 OF 6 SHEETS) ENTITLED "PROPERTY OF SOUTHERN CALIFORNIA EDISON COMPANY, LTD., MAP NO. 7," FILED IN BOOK 2 PAGES 43 TO 48, INCLUSIVE OF OFFICIAL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, WITH THE EASTERLY LINE OF CENTRAL AVENUE, 40.00 FEET WIDE, AS CONVEYED TO THE COUNTY OF LOS ANGELES BY DEED RECORDED FEBRUARY 6, 1886 IN BOOK 150 PAGE 635 OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE ALONG SAID EASTERLY LINE, SOUTH 00° 47' 33" EAST, 290.0 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 89° 12' 27" WEST, 280.00 FEET; THENCE NORTH 0° 47' 33" WEST, 298.18 FEET TO THE SOUTHERLY LINE OF SAID LOT 6; THENCE NORTH 87° 29' 57" EAST ALONG SAID SOUTHERLY LINE OF SAID LOT 6, 1190.79 FEET; THENCE SOUTH 02° 26' 18" EAST, PERPENDICULAR TO THE SOUTHERLY LINE OF SAID LOT 6, 1578.53 FEET; THENCE SOUTH 87° 34' 29" WEST 1516.21 FEET, MORE OR LESS, TO THE EASTERLY LINE OF CENTRAL AVENUE, 40.00 FEET WIDE, AS CONVEYED TO THE COUNTY OF LOS ANGELES BY DEED RECORDED FEBRUARY 6, 1886 IN BOOK 150 PAGE 635, OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE ALONG SAID EASTERLY LINE NORTH 00° 47' 33" WEST 1287.40 FEET TO THE TRUE POINT OF BEGINNING.

A PORTION OF SAID LAND IS SHOWN AS PARCEL 1 OF PARCEL MAP NO. 10375, FILED IN BOOK 94 PAGES 78 AND 79 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 THROUGH 4, INCLUSIVE AND 10, 13 AND 14, OF PARCEL MAP NO. 10967, FILED IN BOOK 101 PAGES 26 AND 27 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1, 2 AND 3 OF PARCEL MAP NO. 11983, FILED IN BOOK 122 PAGE 70 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1, 2 AND 3 OF PARCEL MAP NO. 12434, FILED IN BOOK 126 PAGES 64 AND 65 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 8:

ALL MINERALS, OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER THE BELOW DESCRIBED PROPERTY, TOGETHER WITH ALL NECESSARY AND CONVENIENT RIGHTS TO EXPLORE FOR, DEVELOP, PRODUCE, EXTRACT AND TAKE THE SAME, INCLUDING THE EXCLUSIVE RIGHT TO DIRECTIONALLY DRILL INTO AND THROUGH SAID LAND FROM OTHER LANDS AND INTO THE SUBSURFACE OF OTHER LANDS, SUBJECT TO THE EXPRESS LIMITATION THAT ANY AND ALL OPERATIONS FOR THE EXPLORATION, DEVELOPMENT, PRODUCTION, EXTRACTION, AND TAKING OF ANY OF SAID SUBSTANCES SHALL BE CARRIED ON AT LEVELS BELOW THE DEPTH OF 500 FEET FROM THE SURFACE OF THE BELOW DESCRIBED PROPERTY, BY MEANS OF MINES, WELLS, DERRICKS, AND/OR OTHER EQUIPMENT FROM SURFACE LOCATIONS ON ADJOINING OR NEIGHBORING LAND LYING OUTSIDE OF THE BELOW DESCRIBED PROPERTY, AND SUBJECT FURTHER TO THE EXPRESS LIMITATION THAT THE FOREGOING RESERVATION SHALL IN NO WAY BE INTERPRETED TO INCLUDE ANY RIGHT OF ENTRY IN AND UPON THE SURFACE OF THE BELOW DESCRIBED LAND, AS RESERVED BY SIDNEY M. EHRMAN AND WELLS FARGO BANK, A CALIFORNIA CORPORATION, AS EXECUTORS OF THE WILL OF FLORENCE HELLMAN EHRMAN, DECEASED, ET AL., BY DEEDS RECORDED JUNE 18, 1968 AS INSTRUMENT NOS. 203, 206, 207, 208 AND 209, ALL OF OFFICIAL RECORDS.

BEGINNING AT THE MOST NORTHERLY CORNER OF PARCEL 2 OF THAT DEED TO THE STATE OF CALIFORNIA RECORDED OCTOBER 27, 1954 IN BOOK 45949 OF OFFICIAL RECORDS AT PAGE 306 (INSTRUMENT NO. 3130); THENCE ALONG THE NORTHEASTERLY LINE OF SAID PARCEL 2 SOUTH 26° 29' 41" EAST 68.10 FEET; THENCE SOUTH 44° 01' 58" EAST 28.28 FEET TO A POINT ON A NORTHERLY LINE OF PARCEL 1 OF SAID DEED TO THE STATE OF CALIFORNIA; THENCE ALONG SAID NORTHERLY LINE SOUTH 89° 01' 46" EAST 34.42 FEET; THENCE CONTINUING ON SAID NORTHERLY LINE TANGENT TO THE PRECEDING COURSE ON AN ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 9930.00 FEET AND A CENTRAL ANGLE OF 2° 55' 14", AN ARC LENGTH OF 506.17 FEET; THENCE TANGENT TO THE PRECEDING CURVE AND CONTINUING ON LAST SAID NORTHERLY

LINE NORTH 88° 03' 00" EAST 3153.59 FEET TO THE SOUTHWESTERLY CORNER OF PARCEL 4 OF THE ABOVE MENTIONED DEED TO THE STATE OF CALIFORNIA; THENCE ALONG THE NORTHWESTERLY AND NORTHERLY LINES OF SAID PARCEL 4 THE FOLLOWING COURSES:

NORTH 36° 42' 16" EAST 32.02 FEET, NORTH 27° 16' 08" EAST 33.52 FEET AND NORTH 86° 48' 19" EAST 33.00 FEET TO THE CENTER LINE OF WILMINGTON AVENUE, 66.00 FEET WIDE, AS SAID AVENUE IS SHOWN ON COUNTY SURVEYOR'S MAP B-638 ON FILE IN THE OFFICE OF THE COUNTY SURVEYOR OF LOS ANGELES COUNTY; THENCE ALONG SAID CENTER LINE OF WILMINGTON AVENUE NORTH 3° 11' 41" WEST 2255.59 FEET TO ITS INTERSECTION THEREOF WITH THE EASTERLY PROLONGATION OF THE SOUTHERLY LINE OF LOT 7 AS SAID LOT 7 IS SHOWN ON THE MAP ENTITLED "PROPERTY OF SOUTHERN CALIFORNIA EDISON CO., LTD., MAP NO. 7" FILED IN BOOK 2 OF OFFICIAL MAPS AT PAGES 43 TO 48 IN THE OFFICE OF THE COUNTY RECORDER; THENCE ALONG SAID EASTERLY PROLONGATION SOUTH 87° 55' 21" WEST 33.01 FEET TO THE WESTERLY LINE OF WILMINGTON AVENUE; THENCE ALONG SAID WESTERLY LINE OF WILMINGTON AVENUE SOUTH 3° 11' 41" EAST 860.17 FEET; THENCE LEAVING SAID WEST LINE OF WILMINGTON AVENUE ALONG A LINE PARALLEL WITH SAID SOUTHERLY LINE OF LOT 7 SOUTH 87° 55' 21" WEST 1089.00 FEET; THENCE ALONG A LINE PARALLEL WITH SAID WEST LINE OF WILMINGTON AVENUE NORTH 3° 11' 41" WEST 860.17 FEET TO SAID SOUTH LINE OF LOT 7; THENCE ALONG LAST SAID LINE SOUTH 87° 55' 21" WEST 1107.60 FEET TO THE EAST LINE OF THOSE LANDS OF THE COMPTON UNION HIGH SCHOOL DISTRICT ACQUIRED BY THAT DECREE OF CONDEMNATION RECORDED AUGUST 24, 1967 AS INSTRUMENT NO. 4226; THENCE ALONG SAID EAST LINE SOUTH 2° 00' 39" EAST 1578.53 FEET TO THE SOUTHEAST CORNER OF LAST SAID LANDS; THENCE ALONG THE SOUTHERLY LINE OF SAID LANDS OF COMPTON UNION HIGH SCHOOL DISTRICT SOUTH 88° 00' 08" WEST 1516.21 FEET TO THE EAST LINE OF CENTRAL AVENUE, 40 FEET WIDE, AS SAID CENTRAL AVENUE IS DESCRIBED IN THE DEED TO THE COUNTY OF LOS ANGELES RECORDED IN BOOK 150 OF DEEDS AT PAGE 635, RECORDS OF LOS ANGELES COUNTY; THENCE ALONG SAID EASTERLY LINE OF CENTRAL AVENUE SOUTH 0° 21' 54" EAST 627.95 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT CERTAIN PARCEL DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON SAID WEST LINE OF WILMINGTON AVENUE DISTANT THEREON SOUTH 3° 11' 41" EAST 1160.17 FEET FROM THE INTERSECTION OF SAID WESTERLY LINE WITH THE SOUTHERLY LINE OF THE ABOVE MENTIONED LOT 7 OF THE EDISON MAP; THENCE FROM SAID POINT OF BEGINNING AND CONTINUING ON SAID WEST LINE OF WILMINGTON AVENUE SOUTH 3° 11' 41" EAST 300.00 FEET; THENCE LEAVING SAID WEST LINE OF WILMINGTON AVENUE AND PARALLEL WITH SAID SOUTH LINE OF LOT 7 SOUTH 87° 55' 21" WEST 600.00 FEET; THENCE PARALLEL WITH SAID WEST LINE OF WILMINGTON AVENUE NORTH 3° 11' 41" WEST 300.00 FEET; THENCE PARALLEL WITH SAID SOUTH LINE OF LOT 7 NORTH 87° 55' 21" EAST 600.00 FEET TO THE POINT OF BEGINNING.

A PORTION OF SAID LAND IS SHOWN AS PARCELS 1, 2, 7 TO 10 INCLUSIVE, 16, 20, 21, AND PORTIONS OF PARCELS 3, 5, 17 AND 19, ALL OF PARCEL MAP NO. 1022, FILED IN BOOK 17 PAGES 83 AND 84 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 2 TO 4, INCLUSIVE, OF PARCEL MAP NO. 1273, FILED IN BOOK 20 PAGE 60 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 TO 4 INCLUSIVE OF PARCEL MAP NO. 1300, FILED IN BOOK 20 PAGE 61 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 2262, FILED IN BOOK 34 PAGE 25 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 TO 4 INCLUSIVE, OF PARCEL MAP NO. 2429, FILED IN BOOK 34 PAGE 92 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 6018, FILED IN BOOK 65 PAGES 15 AND 16 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1, 2 AND 3 OF PARCEL MAP NO. 6271, FILED IN BOOK 67 PAGES 21 AND 22 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 22738, FILED IN BOOK 255 PAGES 68 AND 69 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 22740, FILED IN BOOK 255 PAGES 72 AND 73 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 9:

ALL MINERALS, OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER THE BELOW DESCRIBED PROPERTY, TOGETHER WITH ALL NECESSARY AND CONVENIENT RIGHTS TO EXPLORE FOR, DEVELOP, PRODUCE, EXTRACT AND TAKE THE SAME, INCLUDING THE EXCLUSIVE RIGHT TO DIRECTIONALLY

DRILL INTO AND THROUGH SAID LAND FROM OTHER LANDS AND INTO THE SUBSURFACE OF OTHER LANDS, SUBJECT TO THE EXPRESS LIMITATION THAT ANY AND ALL OPERATIONS FOR THE EXPLORATION, DEVELOPMENT, PRODUCTION, EXTRACTION, AND TAKING OF ANY OF SAID SUBSTANCES SHALL BE CARRIED ON AT LEVELS BELOW THE DEPTH OF 500 FEET FROM THE SURFACE OF THE BELOW DESCRIBED PROPERTY, BY MEANS OF MINES, WELLS, DERRICKS, AND/OR OTHER EQUIPMENT FROM SURFACE LOCATIONS ON ADJOINING OR NEIGHBORING LAND LYING OUTSIDE OF THE BELOW DESCRIBED PROPERTY, AND SUBJECT FURTHER TO THE EXPRESS LIMITATION THAT THE FOREGOING RESERVATION SHALL IN NO WAY BE INTERPRETED TO INCLUDE ANY RIGHT OF ENTRY IN AND UPON THE SURFACE OF THE BELOW DESCRIBED LAND, AS RESERVED BY SIDNEY M. EHRMAN AND WELLS FARGO BANK, A CALIFORNIA CORPORATION, AS EXECUTORS OF THE WILL OF FLORENCE HELLMAN EHRMAN, DECEASED, ET AL., BY DEEDS RECORDED JUNE 18, 1968 AS INSTRUMENT NOS. 203, 206, 207, 208 AND 209, ALL OF OFFICIAL RECORDS.

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA AND BEING THAT PORTION OF THE 716.03 ACRE TRACT IN THE RANCHO SAN PEDRO, ALLOTTED TO ISAIAS W. HELLMAN, BY DECREE OF PARTITION, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, RECORDS OF LOS ANGELES COUNTY, SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTH LINE OF VICTORIA STREET, AS SAID STREET IS SHOWN ON THE MAP OF TRACT NO. 25660, RECORDED IN BOOK 657 OF MAPS, AT PAGES 67 TO 72, SAID POINT OF BEGINNING BEING DISTANT THEREON NORTH 88° 00' 15" EAST, 3285.95 FEET FROM THE INTERSECTION OF SAID NORTH LINE OF VICTORIA STREET WITH THE EAST LINE OF CENTRAL AVENUE, 40 FEET WIDE, AS SAID CENTRAL AVENUE IS DESCRIBED IN THE DEED TO THE COUNTY OF LOS ANGELES, RECORDED IN BOOK 150 OF DEEDS, AT PAGE 635, RECORDS OF LOS ANGELES COUNTY; THENCE FROM SAID POINT OF BEGINNING AND PARALLEL WITH SAID EASTERLY LINE OF CENTRAL AVENUE, NORTH 0° 21' 37" WEST, 573.62 FEET; THENCE PARALLEL WITH SAID NORTHERLY LINE OF VICTORIA STREET, SOUTH 88° 00' 15" WEST, 712.69 FEET; THENCE PARALLEL WITH SAID EASTERLY LINE OF CENTRAL AVENUE, NORTH 0° 21' 37" WEST, 103.70 FEET; THENCE PARALLEL WITH SAID NORTHERLY LINE OF VICTORIA STREET, SOUTH 88° 00' 15" WEST, 588.55 FEET; THENCE PARALLEL WITH SAID EASTERLY LINE OF CENTRAL AVENUE, NORTH 0° 21' 37" WEST, 811.74 FEET; THENCE PARALLEL WITH SAID NORTHERLY LINE OF VICTORIA STREET, SOUTH 88° 00' 15" WEST, 1984.71 FEET TO SAID EASTERLY LINE OF CENTRAL AVENUE; THENCE ALONG SAID EASTERLY LINE OF CENTRAL AVENUE, NORTH 0° 21' 37" WEST, 481.53 FEET TO THE MOST SOUTHERLY CORNER OF PARCEL 3 OF THAT DEED TO THE STATE OF CALIFORNIA, RECORDED ON OCTOBER 27, 1954 AS INSTRUMENT NO. 3130 IN BOOK 45949, OFFICIAL RECORDS, AT PAGE 306; THENCE ALONG THE SOUTHEASTERLY LINE OF SAID PARCEL 3, THE FOLLOWING COURSES:

NORTH 24° 48' 41" EAST, 70.51 FEET AND NORTH 45° 58' 19" EAST, 28.28 FEET TO THE SOUTHERLY LINE OF PARCEL 1 OF SAID DEED TO THE STATE OF CALIFORNIA; THENCE ALONG LAST SAID SOUTHERLY LINE, THE FOLLOWING COURSES:

SOUTH 89° 01' 46" EAST, 30.35 FEET; THENCE TANGENT TO THE PRECEDING COURSE ON AN ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 10,065.00 FEET AND A CENTRAL ANGLE OF 2° 55' 14", AN ARC DISTANCE OF 513.05 FEET; THENCE TANGENT TO THE PRECEDING CURVE, NORTH 88° 03' 00" EAST, 3157.60 FEET TO THE MOST WESTERLY CORNER OF PARCEL 5 OF SAID DEED TO THE STATE OF CALIFORNIA; THENCE ALONG THE SOUTHWESTERLY AND SOUTHERLY LINES OF SAID PARCEL 5, THE FOLLOWING COURSES:

SOUTH 40° 36' 54" EAST, 32.02 FEET, SOUTH 28° 25' 50" EAST, 39.87 FEET AND NORTH 86° 48' 19" EAST, 33.00 FEET TO THE CENTER LINE OF WILMINGTON AVENUE, 66 FEET WIDE, AS SAID AVENUE IS SHOWN ON COUNTY SURVEYOR'S MAP B-638 ON FILE IN THE OFFICE OF THE COUNTY SURVEYOR OF LOS ANGELES COUNTY; THENCE ALONG SAID CENTER LINE OF WILMINGTON AVENUE, SOUTH 3° 11' 41" EAST, 1974.49 FEET TO THE INTERSECTION THEREOF WITH THE EASTERLY PROLONGATION OF SAID NORTHERLY LINE OF VICTORIA STREET; THENCE ALONG SAID EASTERLY PROLONGATION AND SAID NORTHERLY LINE, SOUTH 88° 00' 15" WEST, 635.87 FEET TO THE POINT OF BEGINNING.

A PORTION OF SAID LAND IS SHOWN AS PARCELS 2, 3, 4 AND A PORTION OF PARCELS 1 AND 5 OF PARCEL MAP NO. 1430, FILED IN BOOK 23 PAGE 60 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 2, 3, 4 AND A PORTION OF PARCEL 1 OF PARCEL MAP NO. 2772, FILED IN BOOK 40 PAGE 55 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCEL 2 OF PARCEL MAP NO. 3676, FILED IN BOOK 44 PAGE 28 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCEL 1 OF PARCEL MAP NO. 5618, FILED IN BOOK 61 PAGES 68 AND 69, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 6888, FILED IN BOOK 73 PAGE 76 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 10916, FILED IN BOOK 103 PAGE 53 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 TO 4 INCLUSIVE, OF PARCEL MAP NO. 11180, FILED IN BOOK 107 PAGES 24 TO 26, INCLUSIVE, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS SHOWN AS PARCELS 1 AND 2 OF PARCEL MAP NO. 12287, FILED IN BOOK 127 PAGE 76 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 10:

ALL MINERALS, OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER THE BELOW DESCRIBED PROPERTY, TOGETHER WITH ALL NECESSARY AND CONVENIENT RIGHTS TO EXPLORE FOR, DEVELOP, PRODUCE, EXTRACT AND TAKE THE SAME, INCLUDING THE EXCLUSIVE RIGHT TO DIRECTIONALLY DRILL INTO AND THROUGH SAID LAND FROM OTHER LANDS AND INTO THE SUBSURFACE OF OTHER LANDS, SUBJECT TO THE EXPRESS LIMITATION THAT ANY AND ALL OPERATIONS FOR THE EXPLORATION, DEVELOPMENT, PRODUCTION, EXTRACTION AND TAKING OF ANY OF SAID SUBSTANCES SHALL BE CARRIED ON AT LEVELS BELOW THE DEPTH OF 500 FEET FROM THE SURFACE OF THE BELOW DESCRIBED PROPERTY, BY MEANS OF MINES, WELLS, DERRICKS AND/OR OTHER EQUIPMENT FROM SURFACE LOCATIONS ON ADJOINING OR NEIGHBORING LAND LYING OUTSIDE OF THE BELOW DESCRIBED PROPERTY, AND SUBJECT FURTHER TO THE EXPRESS LIMITATION THAT THE FOREGOING RESERVATION SHALL IN NO WAY BE INTERPRETED TO INCLUDE ANY RIGHT OF ENTRY IN AND UPON THE SURFACE OF THE BELOW DESCRIBED LAND, AS RESERVED BY CLARENCE E. HELLER, ALFRED EDWARD HELLER AND RUTH B. HELLER, HIS WIFE, ELIZABETH HELLER MANDELL, WHO ACQUIRED TITLE AS ELIZABETH HELLER, AND ALAN MANDELL, HER HUSBAND, ET AL., BY DEEDS RECORDED JANUARY 23, 1970 AS INSTRUMENT NOS. 3359, 3360 AND 3361, ALL OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT IN THE RANCHO SAN PEDRO, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN, BY DECREE OF PARTITION, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, RECORDS OF LOS ANGELES COUNTY, SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTH LINE OF VICTORIA STREET AS SAID STREET IS SHOWN ON THE MAP OF TRACT NO. 25660 RECORDED IN BOOK 657 OF MAPS AT PAGES 67 TO 72, SAID POINT OF BEGINNING BEING DISTANT THEREON NORTH 88° 00' 15" EAST 3285.95 FEET FROM THE INTERSECTION OF SAID NORTH LINE OF VICTORIA STREET WITH THE EAST LINE OF CENTRAL AVENUE, 40 FEET WIDE, AS SAID CENTRAL AVENUE IS DESCRIBED IN THE DEED TO THE COUNTY OF LOS ANGELES RECORDED IN BOOK 150 OF DEEDS AT PAGE 635, RECORDS OF LOS ANGELES COUNTY; THENCE FROM SAID POINT OF BEGINNING AND PARALLEL WITH SAID EASTERLY LINE OF CENTRAL AVENUE NORTH 0°

21' 37" WEST 473.62 FEET TO THE TRUE POINT OF BEGINNING OF THE PARCEL TO BE HEREIN DESCRIBED; THENCE FROM SAID TRUE POINT OF BEGINNING CONTINUING ALONG LAST MENTIONED PARALLEL LINE NORTH 0° 21' 37" WEST 100.00 FEET; THENCE PARALLEL WITH SAID NORTHERLY LINE OF VICTORIA STREET SOUTH 88° 00' 15" WEST 712.69 FEET; THENCE PARALLEL WITH SAID EASTERLY LINE OF CENTRAL AVENUE NORTH 0° 21' 37" WEST 103.70 FEET; THENCE PARALLEL WITH SAID NORTHERLY LINE OF VICTORIA STREET SOUTH 88° 00' 15" WEST 588.55 FEET; THENCE PARALLEL WITH SAID EASTERLY LINE OF CENTRAL AVENUE SOUTH 0° 21' 37" EAST 203.70 FEET; THENCE PARALLEL TO SAID NORTHERLY LINE OF VICTORIA STREET NORTH 88° 00' 15" EAST 1301.24 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL 11:

ALL MINERALS, OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER SAID LAND, TOGETHER WITH ALL NECESSARY AND CONVENIENT RIGHTS TO EXPLORE FOR, DEVELOP, PRODUCE, EXTRACT AND TAKE THE SAME, INCLUDING THE EXCLUSIVE RIGHT TO DIRECTIONALLY DRILL INTO AND THROUGH SAID LAND FROM OTHER LANDS AND INTO THE SUBSURFACE OF OTHER LANDS, SUBJECT TO THE EXPRESS LIMITATION THAT ANY AND ALL OPERATIONS FOR THE EXPLORATION, DEVELOPMENT, PRODUCTION, EXTRACTION AND TAKING OF ANY OF SAID SUBSTANCES SHALL BE CARRIED ON AT LEVELS BELOW THE DEPTH OF 500 FEET FROM THE SURFACE OF THE BELOW DESCRIBED PROPERTY, BY MEANS OF MINES, WELLS, DERRICKS AND/OR OTHER EQUIPMENT FROM SURFACE LOCATIONS ON ADJOINING OR NEIGHBORING LAND LYING OUTSIDE OF THE BELOW DESCRIBED PROPERTY, AND SUBJECT FURTHER TO THE EXPRESS LIMITATION THAT THE FOREGOING RESERVATION SHALL IN NO WAY BE INTERPRETED TO INCLUDE ANY RIGHT OF ENTRY IN AND UPON THE SURFACE OF THE BELOW DESCRIBED LAND, AS RESERVED BY JEANNE D. DINKELSPIEL, F. WARREN HELLMAN, AND WELLS FARGO BANK, NATIONAL ASSOCIATION, AS EXECUTORS OF THE WILL OF LLOYD W. DINKELSPIEL, JR., ALSO KNOWN AS L. W. DINKELSPIEL, JR., L. W. DINKELSPIEL AND LLOYD DINKELSPIEL, DECEASED, ET AL., BY DEEDS RECORDED JANUARY 24, 1979 AS INSTRUMENT NOS. 79-98570 TO 79-98573, INCLUSIVE, ALL OF OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT, IN THE RANCHO SAN PEDRO, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY DECREE OF PARTITION, A CERTIFIED COPY THEREOF BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NORTHERLY LINE OF VICTORIA STREET, 66 FEET WIDE, AS SHOWN ON PARCEL MAP NO. 1430, FILED IN BOOK 23 PAGE 60 OF PARCEL MAPS, RECORDS OF SAID COUNTY, THAT IS DISTANT THEREON NORTH 88° 00' 15" EAST 1850.80 FEET FROM THE INTERSECTION OF SAID NORTHERLY LINE WITH THE EASTERLY LINE OF CENTRAL AVENUE, 40 FEET WIDE, AS SHOWN ON SAID PARCEL MAP NO. 1430, SAID

POINT BEING ALSO THE SOUTHEASTERLY CORNER OF THE LAND DESCRIBED IN THE DEED TO THE UNION OIL COMPANY OF CALIFORNIA RECORDED APRIL 27, 1966 AS INSTRUMENT NO. 979 IN BOOK D-3285 PAGE 85 OFFICIAL RECORDS OF SAID COUNTY; THENCE NORTH 1° 59' 45" WEST 701.70 FEET ALONG THE EASTERLY LINE OF SAID LAST MENTIONED LAND TO THE NORTHEASTERLY CORNER THEREOF; THENCE SOUTH 88° 00' 15" WEST 1830.75 FEET ALONG THE NORTHERLY LINE OF SAID LAST MENTIONED LAND TO THE EASTERLY LINE OF CENTRAL AVENUE; THENCE ALONG SAID LAST MENTIONED EASTERLY LINE, NORTH 0° 21' 37" WEST TO THE SOUTHERLY LINE OF PARCEL 1 AS SHOWN ON SAID PARCEL MAP NO. 1430; THENCE ALONG THE SOUTHERLY LINE OF SAID PARCEL 1, NORTH 88° 00' 15" EAST 1984.71 FEET TO THE WESTERLY LINE OF PARCEL 2 AS SHOWN ON SAID PARCEL MAP NO. 1430; THENCE ALONG THE WESTERLY LINE OF SAID PARCEL 2 TO AND ALONG THE WESTERLY LINE OF PARCEL 3 AS SHOWN ON SAID PARCEL MAP NO. 1403, SOUTH 0° 21' 37" EAST 811.74 FEET TO THE NORTHWESTERLY CORNER OF THE LAND DESCRIBED IN THE DEED TO THE JOHN HANCOCK MUTUAL LIFE INSURANCE COMPANY RECORDED JANUARY 23, 1970 AS INSTRUMENT NO. 3359 IN BOOK D-4615 PAGE 495 OFFICIAL RECORDS OF SAID COUNTY; THENCE ALONG THE WESTERLY AND SOUTHERLY LINES OF THE LAND DESCRIBED IN SAID LAST MENTIONED DEED AS FOLLOWS: SOUTH 0° 21' 37" EAST 203.70 FEET AND NORTH 88° 00' 15" EAST 1301.24 FEET TO THE WESTERLY BOUNDARY OF SAID PARCEL MAP NO. 1430; THENCE ALONG SAID WESTERLY BOUNDARY BEING ALSO THE WESTERLY BOUNDARY OF PARCELS 4 AND 5 AS SHOWN ON SAID LAST MENTIONED PARCEL MAP SOUTH 0° 21' 37" EAST 473.62 FEET TO SAID NORTHERLY LINE OF VICTORIA STREET; THENCE ALONG SAID LAST MENTIONED NORTHERLY LINE SOUTH 88° 00' 15" WEST 1435.15 TO SAID POINT OF BEGINNING.

A PORTION OF SAID LAND IS SHOWN AS PARCELS 5, 6, 8, 10 THROUGH 48 INCLUSIVE, OF PARCEL MAP NO. 11180, FILED IN BOOK 107 PAGES 24 TO 26 INCLUSIVE, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 TO 9 INCLUSIVE, OF PARCEL MAP NO. 13697, FILED IN BOOK 139 PAGES 3 AND 4 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

A PORTION OF SAID LAND IS ALSO SHOWN AS PARCELS 1 TO 13 OF PARCEL MAP NO. 13985, FILED IN BOOK 147 PAGES 99 AND 100 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 12:

ALL MINERALS, OIL, GAS, PETROLEUM, NAPHTHA AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER THE BELOW DESCRIBED PROPERTY, TOGETHER WITH ALL NECESSARY AND CONVENIENT RIGHTS TO EXPLORE FOR, DEVELOP, PRODUCE, EXTRACT AND TAKE THE SAME, INCLUDING THE EXCLUSIVE RIGHT TO DIRECTIONALLY DRILL INTO AND THROUGH SAID LAND FROM OTHER LANDS AND INTO THE

SUBSURFACE OF OTHER LANDS, SUBJECT TO THE EXPRESS LIMITATION THAT ANY AND ALL OPERATIONS FOR THE EXPLORATION, DEVELOPMENT, PRODUCTION, EXTRACTION AND TAKING OF ANY OF SAID SUBSTANCES SHALL BE CARRIED ON AT LEVELS BELOW THE DEPTH OF 500 FEET FROM THE SURFACE OF THE BELOW DESCRIBED PROPERTY, BY MEANS OF MINES, WELLS, DERRICKS AND/OR OTHER EQUIPMENT FROM SURFACE LOCATIONS ON ADJOINING OR NEIGHBORING LAND LYING OUTSIDE OF THE BELOW DESCRIBED PROPERTY, AND SUBJECT FURTHER TO THE EXPRESS LIMITATION THAT THE FOREGOING RESERVATION SHALL IN NO WAY BE INTERPRETED TO INCLUDE ANY RIGHT OF ENTRY IN AND UPON THE SURFACE OF THE BELOW DESCRIBED LAND, AS RESERVED BY WELLS FARGO BANK, N. A., CLARENCE E. HELLER, ALFRED EDWARD HELLER AND ELIZABETH H. MANDELL, FORMERLY ELIZABETH HELLER, AS CO-TRUSTEES OF THE TRUST CREATED UNDER THE WILL OF EDWARD H. HELLER, DECEASED, ET AL., BY DEED RECORDED SEPTEMBER 5, 1986 AS INSTRUMENT NO. 86-1168148, OFFICIAL RECORDS.

THAT PORTION OF THE 716.03 ACRE TRACT, IN THE RANCHO SAN PEDRO, IN THE CITY OF COMPTON, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ALLOTTED TO ISAIAS W. HELLMAN BY THE DECREE OF PARTITION OF A PORTION OF SAID RANCHO, IN CASE NO. 15697 OF THE SUPERIOR COURT OF SAID COUNTY, A CERTIFIED COPY OF SAID DECREE BEING RECORDED IN BOOK 764 PAGE 185 OF DEEDS, RECORDS OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF PARCEL 20, AS SHOWN ON A PARCEL MAP NO. 1022, FILED IN BOOK 17 PAGES 83 AND 84 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE ALONG THE BOUNDARY LINES OF SAID PARCEL MAP AS FOLLOWS: NORTH 3° 11' 41" WEST 300 FEET AND NORTH 87° 55' 21" EAST 600 FEET TO THE WESTERLY LINE OF WILMINGTON AVENUE (66 FEET WIDE) AS SHOWN ON SAID PARCEL MAP; THENCE ALONG SAID WILMINGTON AVENUE, SOUTH 3° 11' 41" EAST 300 FEET TO THE NORTHERLY LINE OF WALNUT STREET (75 FEET WIDE) AS SHOWN ON SAID PARCEL MAP; THENCE ALONG SAID WALNUT STREET, SOUTH 87° 55' 21" WEST 600 FEET TO THE POINT OF BEGINNING. (RANCHO SAN PEDRO DRILL SITE NO. 1)

SAID LAND IS SHOWN AS PARCELS 1 TO 4 INCLUSIVE, OF PARCEL MAP NO. 18371, FILED IN BOOK 203 PAGE 1, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

END OF LEGAL DESCRIPTION



# DEPARTMENT OF CONSERVATION

*Managing California's Working Lands*

## Division of Oil, Gas, & Geothermal Resources

5816 CORPORATE AVENUE • SUITE 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE [conservation.ca.gov](http://conservation.ca.gov)

September 21, 2010

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd.,  
Long Beach, CA 90801

Subject: Confidential Status for Exploratory Well DOM-002 (API# 037-27148)

Dear Mr. Phillips:

Your request for confidential status for the subject exploratory well is granted. All records pertaining to this well will be held confidential until two years from the cessation of drilling operations. If you have any questions, please feel free to contact me at (714) 816-6847.

Sincerely,

A handwritten signature in black ink, appearing to read "John Huff". The signature is fluid and cursive.

John Huff  
Associate Oil & Gas Engineer

JCH:jch

cc: Well File



Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd  
Long Beach, CA 90801

Dear Mr. Phillips,

This letter is to confirm that you may set your conductor in for the well DOM-002 as the permit to drill this well is pending with our office.

If you have any questions, please feel to call me.

Sincerely,

M. Ali Khan  
Permitting and Operations Supervisor

cc: Ken Carlson  
John Huff  
Well File

*The Department of Conservation's mission is to balance today's needs with tomorrow's challenges and foster intelligent, sustainable, and efficient use of California's energy, land, and mineral resources.*

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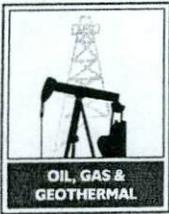
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TRANSACTION REPORT

P.01/01





# DEPARTMENT OF CONSERVATION

## DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

5816 Corporate Avenue • Suite 200 • CYPRESS, CALIFORNIA, 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEBSITE [conservation.ca.gov](http://conservation.ca.gov)

Chris Phillips, Agent  
Oxy USA, Inc.  
301 East Ocean Blvd  
Long Beach, CA 90801

Dear Mr. Phillips,

This letter is to confirm that you may set your conductor in for the well DOM-002 as the permit to drill this well is pending with our office.

If you have any questions, please feel to call me.

Sincerely,



M. Ali Khan  
Permitting and Operations Supervisor

cc: Ken Carlson  
John Huff  
Well File



OXY USA INC.

301 EAST OCEAN BOULEVARD, 3<sup>RD</sup>  
FLOOR  
LONG BEACH, CALIFORNIA 90801  
TELEPHONE (562) 495-9340  
FACSIMILE (562) 495-1950

August 25<sup>th</sup>, 2010

Mr. Ken Carlson  
Acting District Deputy  
5816 Corporate Ave. Suite 200  
Cypress, CA 90630-4731  
Phone: (714) 816-6847

Subject: Well DOM-002  
Sec. 33, Township 3 South, Range 13 West, S.B. B.&M.  
Dominguez Field

Dear Mr. Carlson:

The above well, DOM-002, is planned to be drilled into the Catalina Schist zone (below Division F marker) at a depth of approximately 12,868 feet. We consider the DOM-002 to be exploratory for a new pool and request the records be treated as confidential information as allowed by Section 3234 of the Public Resources Code and Section 1997.1 of the California Code of Regulations. Additionally, OXY USA Inc. is planning on leasing additional acreage in the area of the Dominguez field.

If you need any further information or if you have any questions regarding this matter, please contact me at (562) 495-9349.

Sincerely,

Chris Phillips  
Senior Geological Advisor / Agent  
OXY USA Inc.

Bcc: J. Eastlack  
M. Kapelke  
P. Krueger  
M. Hebert  
M. Oyola  
J. Chaconas  
M. McCarter

REC'D AUG 26 2010

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

Cypress, California  
September 13, 2010

Chris Phillips, Agent  
OXY USA, INC.  
301 East Ocean Blvd.  
Long Beach, CA 90801

I have received your notice dated **8/25/2010**, of your intention to **drill** well **DOM-002**, API# --, Sec. **33**, T.  
**3S**, R. **13W**, **SB B. & M.**, **Dominguez** Field.

The proposal is currently under review by Division personnel. The permit will be issued when the review is complete. If you have any questions, please call John Huff at (714) 816-6847.

Elena M. Miller

\_\_\_\_\_  
*State Oil and Gas Supervisor*

By:   
For: Kenneth M. Carlson, Acting District Deputy

JCH:jch

cc: Update