District I 625 N. French Dr.	Hobbs, NM	88240	F	Energy,		ate ot ine nerals &		exico ral Resource	es			Form C-101 June 16, 2008
District II 301 W. Grand Av District III 000 Rio Brazos R District IV 220 S. St. Francis	enue,Artesia, d., Aztec, NN	NM 88210 4 87410	15	(	12	Conserva 20 S. St. anta Fe, 1	Fran			08850CDsu B 2 4 2015		oropriate District Office
APPLICA' PLUGBAC				DRIL	L, I	RE-ENT	TER,	DEEPEN,	[	RECEIVED		
Occidental	Donmian		rator Name and	d Address						······································	<sup>2</sup> OGRID Ni 15798	
P.0. Box 42			77210-429	)4					I	30- 025-	<sup>3</sup> APLNum	iber 454
<sup>4</sup> Propert 195				No	orth	<sup>5</sup> Property I Hobbs G		Init			、	<sup>6</sup> Well No. 958_
Hobb	- os: Gravb	<sup>9</sup> Proposed ung - Sa	Pool 1 n Andres (	(31920)						<sup>10</sup> Proposed Po	ool 2	
Surface Lo										- <u>-</u>		
UL or lot no. H	Section 19	Township 18 - S	Range 38-E	Lot. Id	n	Feet from t 1929		North/South Lin North	e	Feet from the <b>741</b>	East/West lin East	ne County Lea
Proposed B				fferent	Fro							
UL or lot no.	Section	Township	Range	Lot. Id	n	Feet from t	he	North/South Lin	ie	Feet from the	East/West li	ne County
Additional W	Vell Loca	tion		[							1	
<sup>11</sup> Work Typ N		1.	<sup>2</sup> Well Type Cod	e		<sup>13</sup> Cable/R R		14	Leas	e Type Code P	<sup>15</sup> Gro	und Level Elevation 3650.8'
<sup>16</sup> Multir Nc	ole		<sup>7</sup> Proposed Depti 4700'	n		<sup>18</sup> Format San An	tion			ontractor P 340		<sup>20</sup> Spud Date June, 2015
• <u>•</u>					L	Jan An	ures		ne	<u>xP 340</u>	<u> </u>	une, 2015
Proposed C		I									<u> </u>	
Hole Siz		Casi	ing Size	Casir	ig we	ight/foot		Setting Depth	+	Sacks of Cemer	nt	Estimated TOC
12-1/	4	9.	5/8		36	,		1650		630		Surface
8-3/4	4		7		26			4700		790		Surface
<sup>2</sup> Describe the pr Describe the blow BOP type	out preventio	n program, i	f any. Use add	itional she	ets if	necessary.			pres	sent productive zor	ne and propo	sed new productive zone.
3000 psi During th	working p is proced	bressure. dure, Oxy	. 3000 psi / plans to	test µ use a	ores clo	sure for	rams syst	s, 2100 psi em with ste	eel	st pressure f tanks and ha stem schemat	aul conte	ents
<sup>23</sup> I hereby certify of my knowledge		mation giver	n above is true	and comp	lete to	the best		OIL	, C(	ONSERVATI	ON DIV	ISION
lignature:		<u>CSter</u>	shen				Appr	oved by:		Carl	3	
'rinted name:	Mark St	ephens					Title	Petroleur	m E	Ingineer		
litle:	Regulat	ory Comp	liance Ana	lyst			Appr	oval Date:	r/-	25/15 1	xpiration Da	.te: 02/25/17
E-mail Address:	Mark_St	ephens@o	xy.com						-	· / · · ·		-
Date: 2/23/15			Phone: (713	) 366-5	5158		Cond	litions of Approv	val A		Attac	hàd

### CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42454	Occidental Permian LTD	North Hobbs G/SA Unit # 958

Applicable conditions of approval marked with XXXXXX

# Administrative Orders Required

XXXXXXXX	If using a pit for drilling and completion operations, must have an approved pit form prior to spudding the wel	1
Other wells		•

Drilling

 Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in
cement the water protection string

Casing

XXXXXXX	SURFACE CASING - Cement must circulate to surface
<u>×××××××</u>	PRODUCTION CASING - Cement must circulate to surface
XXXXXXX	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
	South Area
XXXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water

# APD DATA - DRILLING PLAN

#### **OPERATOR NAME / NUMBER: OXY USA WTP LP**

LEASE NAME / NUMBER: North Hobbs G/SA Unit #958

STATE: NM COUNTY: Lea

#### SURFACE LOCATION: 1929' FNL & 741' FEL, Sec 19, T18S, R38E

SL:	Lat:	32.7348031'N	LONG:	103.1812048'W	
	<b>X</b> :	854286.21	<b>Y</b> :	632958.66	New Mexico East NAD 1927

C-102 PLAT APPROX GR ELEV: 3650.8'

**EST KB ELEV**: 3667.3' (16.5' KB)

#### 1. GEOLOGIC NAME OF SURFACE FORMATION

#### a. Permian

# 2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS

Formation	TV Depth Top*	Expected Fluids
Base Red Beds	237	Fresh Water
Rustler	1552	Formation Fluid
Top of Salt	1637	Formation Fluid
Base of Salt	2727	Formation Fluid
Queen	3502	Formation Fluid
Grayburg	3847	Formation Fluid
Basal Grayburg	4037	Formation Fluid
San Andres	4137	Hydrocarbon
TD	4700	TD

\*Note: Depths are below GL.

A. Fresh Water formations will be covered with the 16" conductor pipe, which will be set at 53' prior to spud.

GREATEST PROJECTED TD 4700' MD / 4700' TVD OBJECTIVE: San Andres

#### 3. CASING PROGRAM

Surface Casing: 9.625" 36# J55 LTC casing set at  $\pm$  1650' MD/ 1650' TVD in a 12.25" hole filled with 9.5 ppg mud Production Casing: 7" 26# J55 LTC casing set at  $\pm$  4700'MD/ 4700'TVD in a 8.75" hole filled with 10.5 ppg mud

	OD	ID	Coupling	Drift	Weight			Burst	Collapse	Tension	Т	'orque (ft-lb	s)
String	(in)	(in)	OD (in)	(in)	(#/ft)	Grade	CXN	(psi)	(psi)		Minimum	Optimum	Maximum
Conductor	16	15.25	17	14.5	65	H40	Weld	1640	670	736	4390	4390	4390
Surface	9.625	8.921	10.625	8.765	36	J55	LTC	3520	2020	564	3400	4530	5660
Production	7	6.276	7.656	6.151	26	J55	LTC	4980	4320	415	2750	3670	4590

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# 4. CEMENT PROGRAM:

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Surface Interval

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Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
Surface (TOC:	0' – 1577')						
Lead: 0' – 1180' 100% Excess	430	1180	Premium Plus Cement: 94 lbm/sk Premium Plus Cement 4 % Bentonite (Light Weight Additive) 1 % Calcium Chloride - Flake(Accelerator) 0.125 lbm/sk Poly-E-Flake (LC Additive)	9.11	13.5	1.73	824 psi
<b>Tail:</b> 1180' – 1577' 100% Excess	200	397	Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 1 % Calcium Chloride - Flake	6.36	14.8	1.34	1926 psi

#### **Production Interval**

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>Production</b> (T	OC: 0' - 460	))))		·	•	-1	
Stage 1 Primary:			Poz Premium Plus Cement 50/50 Poz Premium Plus Cement				
<b>3822'-4600'</b> 85% Excess	210	778	<ul> <li>0.6 lbm/sk LAP-1 (LC Additive)</li> <li>0.3 lbm/sk CFR-3 (Dispersant)</li> <li>0.25 lbm/sk D-AIR 3000 (Defoamer)</li> <li>0.125 lbm/sk Poly-E-Flake (LC Additive)</li> </ul>	4.69	14.8	1.123	1181 psi
Stage 2 Lead: 0' – 1577' 10 % Excess 1577' – 2827' 200 % Excess	360	2827	Interfill C 0.125 lbm/sk Poly-E-Flake (LC.) 0.5 % Halad(R)-322 (LC Additive) 0.5 lbm/sk D-AIR 5000 (Defoamer)	13.4	11.9	2.394	249 psi
Stage 2           Tail:           2827'-3822'           100 % Excess	220	995	Premium Plus Cement 94 lbm/sk Premium Plus Cement 0.2 % WellLife 734 (Cement Enhancer) 5 lbm/sk Microbond (Expander) 0.3 % Econolite (Light Weight Additive) 0.3 % CFR-3 (Dispersant)	7.7	14.20	1.547	1186 psi

#### 5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1650' None.

**Production: 1650' - 4700'** The minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi (including annular).

Casing	Wellhe	ad Flange	BOP Stack			Pressure Test (psi)				
Size	Size	Pressure	<b>—</b> (1)	T (I) Size Pressure		Ini	Initial		quent	
(in.)	(in.)	(psi)	Type <sup>(1)</sup>	· (in.)	(psi)	Rams	Ann	Rams	Ann	
9 5/8"	11"	3000	R, R, A, G	11"	5000	250/ <b>3000</b>	250/ <b>2100</b>	250/ <b>3000</b>	250/ <b>2100</b>	

- **a.** The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 9 5/8" surface casing and the 9 5/8" SOW x 11" 3K wellhead. A modified Wellhead System with 7" Mandrel Hanger will be used.
- **b.** The BOP and auxiliary BOPE will be tested by a third party upon installation to the 9 5/8" 36# J-55 surface casing. All equipment will be tested to 250/3000 psi (Annular to 250/2100 psi) for 10 minutes.
- c. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3" choke line having a 3000 psi WP rating.
- d. See attached BOP & Choke manifold diagrams.

#### 6. MUD PROGRAM:

Depth (ft)	Mud Weight (ppg)	Viscosity (sec/qt)	Fluid Loss (cc's)	рН	Mud System
0 - 1500	8.4 - 9.5	28 - 30	N/C	<9.0	Freshwater / Sweeps
1500 - 1650	8.8 - 9.5	32 - 40	< 25	<9.0	FW – Native Mud
1600 - 3600	9.8 - 10.0	28 - 32	N/C	10.0 - 11.0	Brine Water / Sweeps
3600 - 4700	10.0 - 10.5	36 - 45	<8	10.5 - 11.0	Salt Gel / Starch

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The necessary mud products for additional weight and fluid loss control will be on location at all times.

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

#### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- **a.** A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- **b.** Hydrogen sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the REGULATORY AGENCIES.

#### 8. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logger: None.
- B. DST's: None.
- C. Open Hole Logs as follows: May have triple combo for production section surface to TD. Spectral GR from B. Grayburg to TD.

#### 9. POTENTIAL HAZARDS:

- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The MASP will be 1254psi and BOP test (MASP + 500) will be 1754psi
- C. No abnormal temperatures or pressures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after Oxy has submitted APD. Anticipated spud date will be as soon as possible after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 10 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

#### **11. COMPANY PERSONNEL:**

Name	Title	<b>Office Phone</b>
Edgar Diaz-Aguirre	Drilling Engineer	713-840-3037
Adriano Celli	Drilling Engineer Supervisor	713-985-6371
Kevin Videtich	Drilling Superintendent	713-350-4761
Chad Frazier	Drilling Manager	713-215-7357

## Mathew, Roni

From: Sent: To: Subject: Hayes, William P Sunday, February 22, 2015 2:23 PM Mathew, Roni RE: Surface Ownership Request

Roni,

I am your contact for both the Willard and Denver Unit.

The 1701 is on OXY property.

The 3631 is on Exxon property (see attachment).



From: Mathew, Roni Sent: Wednesday, February 18, 2015 9:13 AM To: Hayes, William P Subject: Surface Ownership Request

Hi Will,

As there is an intent to plug, please provide surface ownership for the 2 Denver Unit wells noted below:

Denver Unit well # 1701 API #: 42-501-02210

Denver Unit well # 3631 API #: 42-501-31124

Will you be our land contact for both Willard and Denver Unit? Please let me know if you have any questions and thanks for your help Will.

Roni

Roni Mathew | Oxy USA Inc. | Permian EOR HES Regulatory | Office - 713.215.7827 | Fax - 713.985.7827 | Location - 28.001 | roni mathew@oxy.com





# Certificate of Conformance

S/N: 20072547-310 BOP ASSY, 11-5M, DBL, LXT, SXF W/(4) 3-5M FO

RIG
TBD
SALES ORDER NUMBER
824265
SALES ORDER LINE ITEM NUMBER
0012
CLIENT DOCUMENT NUMBER
PO #340-352-002
SERIAL NUMBER
20072547-310
DOCUMENT PART NUMBER
29010000

20072547-310-COC-001			01
DOCUMENT NUMBER	······································	<b>L</b>	REV
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·.	3-5M FO		
REFERENCE S/N:20072547-310	BOP ASSY, 11-5M, DBL, LXT, SXF, W/(4		

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Document number	20072547-310-COC-001
Revision	01

### NOV CERTIFICATE OF CONFORMANCE

Certificate of Conformance			
Equipment Name	t Name BOP ASSY, 11-5M, DBL, LXT, SXF, W/ (4) 3-5M FO		
Part Number	20072547		
Serial Number	20072547-310		
Customer	HELMERICH AND PAYNE INT'L DRILLING		
Rig	TBD		
Customer Purchase Order	340-352-002		
NOV Sales Order	824265		
Date of Manufacturing	JUNE 2010		
Quantity	1 (ONE)		

NOV certifies that the above equipment:

- 1) Was manufactured and inspected in accordance with NOV specifications and customer purchase order requirements.
- 2) Manufactured to:
  - ANSI/API Specification 16A, Third Edition, June 2004.
  - ISO 13533:2001, (Modified) Petroleum and Natural Gas Industries-Drilling and Production Equipment-Drill-Through Equipment.
- Meets the applicable portions of NACE standard MR 0175/ISO 15156, First Edition for H<sub>2</sub>S service.

Certified By: Rita Mova

**Documentation Specialist** 

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H&P Flex 4 Closed Loop Schematic