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istrict I 625 N. French Dr.	., Hobbs, NN	1 88240	Ł	nergy,	Minerals &	Natura		HOBBSOC	ALL A	June 16, 2008
<u>istrict II</u> 301 W. Grand Av	enue,Artesia	NM 88210				ation D		nvddywy		opriate District Office
<u>istrict III</u> )00 Rio Brazos R				(	Dil Conserva 1220 S. St.		vivsiion is Dr	JUN 1 6 20		
istrict IV 220 S. St. Francis					Santa Fe,			0014 # 0 20		MENDED REPORT
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	,		tor Name and	d Address			····	1	<sup>2</sup> OGRID Nur	
Occidental	Permian	Ltd.							157984	
P.O. Box 42	94, Hous	ton, TX 7	77210-429	94				30- 02	5- 42 6	47
<sup>4</sup> Proper 195				 S(	<sup>5</sup> Property Suth Hobbs (		i+			Well No. 256
195	JZ	<sup>9</sup> Proposed Pc	ol I					<sup>10</sup> Proposed	d Pool 2	230
Hobb	os; Grayb	urg – San	Andres (	(31920)	·			•		
Surface Lo	cation									
UL or lot no.	Section	Township	Range	Lot. Id	1		North/South Line	Feet from the	•	e County
I	4	<u>19-S</u>	38-E		218		South	657	East	Lea I
			r		From Surfa					
UL or lot no.	Section 4	Township 19-S	Range 38-E	Lot. Id	n Feet from 160		North/South Line	Fcet from the		
<u>G</u> dditional W			O-E		100		North	1638	East	Lea
			Well Type Cod	le	<sup>13</sup> Cable/I	Rotary	14 I ee	ise Type Code	15 Grow	nd Level Elevation
U Work Tun	e Code		I I		R	۲		SP .		3612.2'
<sup>11</sup> Work Typ N						ation	19 (	Contractor	20	Spud Date
N <sup>16</sup> Multi	ple		Proposed Dept		<sup>18</sup> Forma					11/0/15
N	ple		Proposed Dept TVD/5050		<sup>18</sup> Forma San Ai			1&P 340		11/9/15
N <sup>16</sup> Multij No	ple D	4550	TVD/5050	)' MD			H			11/9/15
N <sup>16</sup> Multin No Proposed (	<sup>ple</sup> D Casing ai	4550	TVD/5050	0' MD	San Ai	ndres	H	1&P 340		·
N <sup>16</sup> Multij No	<sup>ple</sup> D Casing ai	4550	TVD/5050	0' MD		ndres	H			Estimated TOC
N <sup>16</sup> Multip No Proposed ( Hole Si	D D Casing at ze	d Cement Casing	' TVD/5050 t Prograr g Size	0' MD	San Ai	ndres	tting Depth	1&P 340 Sacks of Ce		Estimated TOC
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N <sup>16</sup> Multip No Proposed ( Hole Si	Casing an ze	d Cement Casing	TVD/5050 t Prograr g Size	0' MD	San Ai	ndres	tting Depth	1&P 340 Sacks of Ce		Estimated TOC
N <sup>16</sup> Multij No Proposed ( Hole Si 12-1/ 8-3/4	<sup>ple</sup> D Casing an ze 4	4550	' TVD/5050 t Prograr g Size 5/8	D' MD n Casir	San Ai ng weight/foot 36 26	ndres Se	H tting Depth 1700 5050	1&P 340 Sacks of Ce 640 830	ment	Estimated TOC Surface Surface
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# APD DATA – DRILLING PLAN

OPERA	TOR NA	ME/NUMBER: (	DXY USA WT	PLP	•
LEASE	NAME /	NUMBER: Sout	h Hobbs G/SA	Unit #256	HOBBS OCD
STATE	: NM	COUNTY	: Lea		JUN 1 6 2015
SURFA	CE LOCA	ATION:	2188' FSL &	657' FEL, Sec 4, T19	S, R38E
SL:	Lat:	32.6880109'N	LONG:	103.1464492'W	
	<b>X</b> :	865164.97	Y:	616052.21	New Mexico East NAD 1927
BOTTO	M HOLI	E LOCATION:	1608' FNL 8	2 1638' FEL, Sec 4, T	19S, R38E
BHL:	Lat:	32.6920916'N	LONG:	103.1496285'W	
	X:	864170.19	<b>Y</b> :	617525.97	New Mexico East NAD 1927

C-102 PLAT APPROX GR ELEV: 3612.2'

**EST KB ELEV**: 3628.7' (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	228	Fresh Water
Rustler	1554	Formation Fluid
Top of Salt	1649	Formation Fluid
Base of Salt	2704	Formation Fluid
Queen	3424	Formation Fluid
Grayburg	3729	Formation Fluid
Basal Grayburg	3914	Formation Fluid
San Andres	4004	Hydrocarbon
TD	4550	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 5050' MD / 4550' TVD OBJECTI

**OBJECTIVE**: San Andres

#### 3. CASING PROGRAM

Surface Casing: 9.625" 36# J55 LTC casing set at  $\pm$  1700' MD/ 1680' TVD in a 12.25" hole filled with 9.5 ppg mud Production Casing: 7" 26# J55 LTC casing set at  $\pm$  5050'MD/ 4550'TVD in a 8.75" hole filled with 10.5 ppg mud

	OD ID Coupling Drift Weight Create CVN Burst		Burst	Collapse	Tension	Torque (ft-lbs)							
String	(in)	(in)	OD (in)	(in)	(#/ft)	Grade	CXN	(psi)	(psi)	(k-lbs)	Minimum	Optimum	Maximum
Conductor	16	15.25	17	14.5	65	H40	Weld	1640	670	736	4390	4390	4390
Surface	9 <i>.</i> 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

### 4. CEMENT PROGRAM:

Surface Interval

. . .

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
Surface (TOC:	0' - 1604')				-		
Lead: 0' - 1207' 100% Excess	440	1207	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> 1207' – 1604' 100% Excess	200	397	Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 1 % Calcium Chloride - Flake	6.34	14.8	1.335	1926 psi

Production Interval

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Production (T	OC: 0' - 490	)3')				·	····
Stage 1           Primary:           4097'-4903'           85% Excess	220	806	Poz Premium Plus Cement 50/50 Poz Premium Plus Cement 0.6 lbm/sk LAP-1 (LC Additive) 0.3 lbm/sk CFR-3 (Dispersant) 0.25 lbm/sk D-AIR 3000 (Defoamer) 0.125 lbm/sk Poly-E-Flake (LC Additive)	4.69	14.8	1.123	1236 psi
<b>Stage 2</b> <b>Lead:</b> 0' - 1604' 10 % Excess 1604' - 3006' 200 % Excess	390	3006	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	376 psi
<b>Stage 2</b> <b>Tail:</b> <b>3006'-4097'</b> 100 % Excess	220	1091	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) 0.5 % Halad(R)-344 (LC Additive)	7.7	14.20	1.547	1914 psi

1

#### 5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1700' None.

**Production: 1700' - 5050'** 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	BC	BOP Stack			Pressure Test (psi)			
Size	Size	Pressure	<b>m</b> (1)	The size		Ini	tial	Subse	quent	
( <b>in</b> .)	(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 min.
- 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 - 1700	8.8 - 9.5	32 - 40	< 25	<9.0	FW – Native Mud
1700 - 3600	9.8 - 10.0	28 - 32	N/C	10.0 - 11.0	Brine Water / Sweeps
3600 - 5050	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. <u>If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the REGULATORY AGENCIES.</u>

#### 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





# **Certificate of Conformance**

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

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

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20072547-310-C	OC-001		01
DOCUMENT NUMBER		L	REV
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·.	3-5M FO	r	
REFERENCE S/N:20072547-310	BOP ASSY, 11-5M, D	BL LXT SX	F. W/(4

NATIONAL OILWELL VARCO

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Document number	20072547-310-COC-001
Revision	01

### NOV CERTIFICATE OF CONFORMANCE

Certificate of Conformance		
Equipment 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 Moya** 

**Documentation Specialist** 

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S NATIONAL OILWELL VARCO



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8" Flex Hose 20 ft long

H&P Flex 4 Closed Loop Schematic

HOBBS OCD

#### CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42647	Occidental Permian LTD	South Hobbs G/SA Unit # 256

Applicable conditions of approval marked with XXXXXX

## Administrative Orders Required

XXXXXXXX	If within City Limits No Pits – Must use close loop
XXXXXXX	Will require administrative order for injection or disposal prior to injection or disposal
Other wells	

Drilling

XXXXXXX	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

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## Casing

XXXXXX	SURFACE CASING - Cement must circulate to surface
XXXXXXX	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
XXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water

XXXXXXX	Must notify Hobbs OCD office prior to conducting MIT (575) 393-6161 ext. 114	
XXXXXXX	Must conduct & pass MIT prior to any injection	