State of New Mexico Energy, Minerals & Natural Resources

rorm C-101 June 16, 2008

istrict I 625 N. French Dr., Hobbs, NM 88240 istrict II 301 W. Grand Avenue, Artesia, NM 88210 District III 000 Rio Brazos Rd., Aztec, NM 87410

Oil Conservation Divsiion 1220 S St Francis Dr

HOBBSOCD a & 2015

Submit to appropriate District Office

istrict IV 120 S. St. Francis Dr., Santa Fe, NM 87505						Santa Fe,		37505		200		NDED REPORT
APPLICA PLUGBA					DRILI	L, RE-ENT	ER,	DEEPEN,	1	RECEIVED		<
			Operat	tor Name and	Address						² OGRID Number	r /
Occidental	Permian	Ltd.							<u> </u>		157984	
0.0. Box 42	294, Hous	ston,	TX 7	7210-429	4				3	0-024	³ API Number	74
•	rty Code 552	/	_		Soı	⁵ Property uth Hobbs G		nit	•		⁶ Wel	1 No. 53
Hob	bs; Gray	-	osed Po - San	ol I Andres (31920)					¹⁰ Proposed P		
Surface Lo	cation											
UL or lot no.	Section 4	Town	iship 9 - S	Range 38-E	Lot. Idn	Feet from 240	····	North/South Line South	е	Feet from the 731	East/West line	County Lea
roposed E	Bottom H	lole L	ocati	on If Dif	ferent F	rom Surfa	ce				<u> </u>	
JL or lot no.	Section 5	Town	iship) - S	Range 38-E	Lot. Idn	Feet from	1	North/South Line	e	Feet from the	East/West line	County Lea
lditional V	Well Loc	ation					_					
11 Work Type Code N				_	13 Cable/Rotary		Lease Ty	pe Code	15 Ground Level Elevation 3608.9'			
¹⁶ Multiple No			17 Proposed Depth 50'TVD/4980' MD			18 Formation San Andres		¹⁹ Contractor H&P 340		²⁰ Spud Date 10/11/15		

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4	9-5/8	36	1625	610	Surface
8-3/4	7	26	4980	830	Surface

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See Attached

I hereby certify of my knowledge	that the information given above is true and complete to the best and belief.	OIL CONSERVATION DIVISION					
ignature:	MarkStephen	Approved by:					
rinted name:	Mark Stephens	Petroleum Engineer Title: Petroleum Engineer					
itle:	Regulatory Compliance Analyst	Approval Date: 05/26/15 Expiration Date: 05/26/17					
i-mail Address:	Mark Stephens@oxy.com						
Date: 5/22/1	5 Phone: (713) 366-5158	Conditions of Approval Attached See Attached					

CONDITIONS OF APPROVAL

API#	Operator	Well name & Number
30-025-42594	Occidental Permian LTD	South Hobbs G/SA Unit # 253

Applicable conditions of approval marked with XXXXXX

Administrative Orders Required

XXXXXXX	If using a pit for drilling and completion operations, must have an approved pit form prior to spudding the well
XXXXXXX	Will require administrative order for injection or disposal prior to injection or disposal
Other wells	
Drilling	
XXXXXX	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
XXXXXX	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

Completion & Production

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

APD DATA - DRILLING PLAN

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: South Hobbs G/SA Unit #253

STATE: NM

COUNTY: Lea

SURFACE LOCATION:

2400' FSL & 731' FWL, Sec 4, T19S, R38E

SL:

Lat: X:

32.6885708'N 861257.19

Y:

Y:

LONG: 103.1591425'W 616212.47

New Mexico East NAD 1927

BOTTOM HOLE LOCATION:

1578' FNL & 307' FEL, Sec 5, T19S, R38E

BHL:

Lat:

X:

32.6921590'N 860205.48

LONG: 103.1625138'W

617506.48

New Mexico East NAD 1927

C-102 PLAT APPROX GR ELEV: 3608.9'

EST KB ELEV: 3625.4' (16.5' KB)

GEOLOGIC NAME OF SURFACE FORMATION 1.

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	1470	Formation Fluid
Top of Salt	1575	Formation Fluid
Base of Salt	2685	Formation Fluid
Queen	3405	Formation Fluid
Grayburg	3710	Formation Fluid
Basal Grayburg	3885	Formation Fluid
San Andres	4000	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 4980' MD / 4550' TVD

OBJECTIVE: San Andres

CASING PROGRAM

Surface Casing: 9.625" 36# J55 LTC casing set at ± 1625' MD/ 1600' TVD in a 12.25" hole filled with 9.5 ppg mud Production Casing: 7" 26# J55 LTC casing set at ± 4980'MD/ 4550'TVD in a 8.75" hole filled with 10.5 ppg mud

	OD	ID	Coupling	Drift	Weight			Burst Collapse (psi)		Collapse Tension		ion Torque (ft-lbs)				
String	(in)	(in)	OD (in)	(in)	(#/ft)	Grade	le CXN			(k-lbs)	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			

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sks	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC:	0' - 1515')						
Lead: 0' - 1116' 100% Excess	410	1116	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
Tail: 1116' – 1515' 100% Excess	200	399	Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 1 % Calcium Chloride - Pellet	6.41	14.8	1.34	1926 psi

Production Interval

Interval	Interval Amount Ft of Sks Fill Type		Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp	
Production (T	OC: 0' - 483	32')				· ·	
Stage 1 Primary: 4029'-4832' 85% Excess	220	803	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
Stage 2 Lead: 0' - 1515' 10 % Excess 1515' - 2975' 200 % Excess	400	2975	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
Stage 2 Tail: 2975'-4029' 100 % Excess	210	1054	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

5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1625' None.

Production: 1625' - 4980' 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 Size	Wellhe	ad Flange	BC	OP Stack	(Pressure Test (psi)				
	Size	Pressure	75 (1)	Size	Pressure	Ini	tial	Subsequent		
(in.)	(in.)	(in.) (psi) Type ⁽¹⁾		(in.)	(psi)	Rams	Ann	Rams	Ann	
9 5/8"	11"	3000	R, R, A, G	11"	5000	250/3000	250/2100	250/3000	250/2100	

- 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)	pН	Mud System
0 - 1500	8.4 – 9.5	28 - 30	N/C	<9.0	Freshwater / Sweeps
1500 - 1625	8.8 - 9.5	32 – 40	< 25	<9.0	FW – Native Mud
1625 – 3600	9.8 - 10.0	28 – 32	N/C	10.0 – 11.0	Brine Water / Sweeps
3600 – 4980	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.

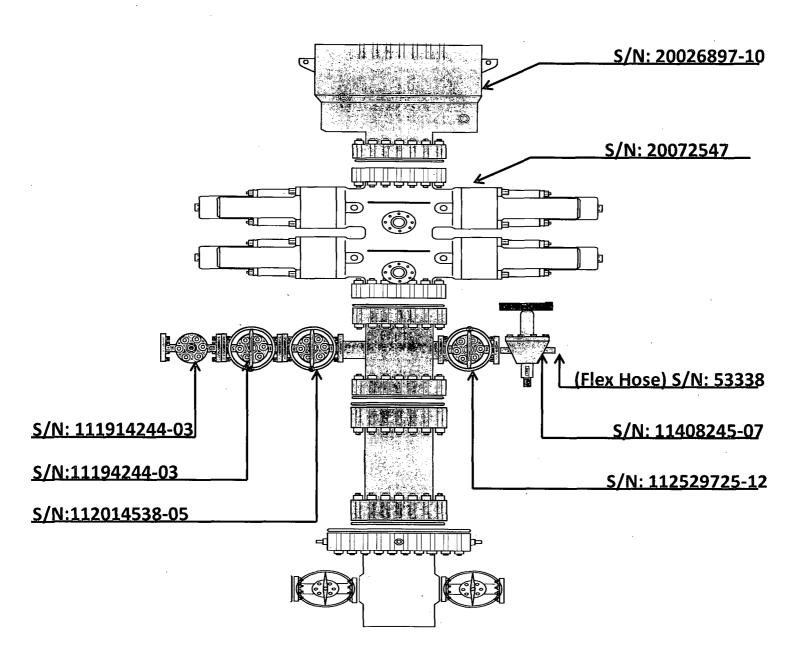
10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

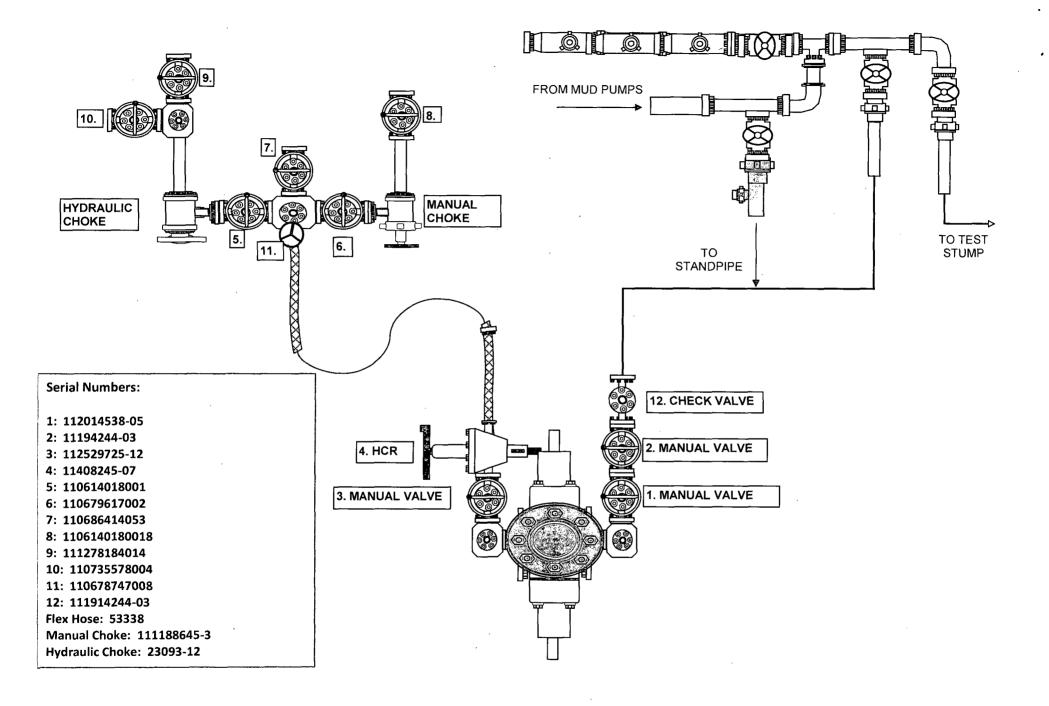
Road and location construction will begin after Oxy has submitted APD. Anticipated spud date will be as soon as possible after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 10 days. If production casing is run, then an additional 30 days will be 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	Office Phone
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

H&P 340 BOP Diagram





Certificate of Conformance

S/N: 20072547-310

BOP ASSY, 11-5M, DBL, LXT, SXF

W/(4) 3-5M FO

I TBD
1 100
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

REFERENCE REFERENCE DESCRIPTION S/N:20072547-310 BOP ASSY, 11-5M, DBL, LXT, SXF, W/(4) 3-5M FO National Oilwell Varco This document contains proprietary and confidential information which 12950 W. Little York Instruction occument commens proprietarly and confidencial mirrormation which belongs to National Oliwell Varco; it is loaned for limited purposes only and remains the property of National Oliwell Varco. Reproduction, in whole or in part, or use of this design or distribution of this Information to others is not permitted without the express written consent of National Oliwell Varco. This document is to be returned to National Oliwell Varco upon request and in Houston, TX 77041 Phone 713-937-5000 Fax 713-849-6147 any event upon completion of the use for which it was loaned.

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MATIONAL OILWELL VARCO

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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)			

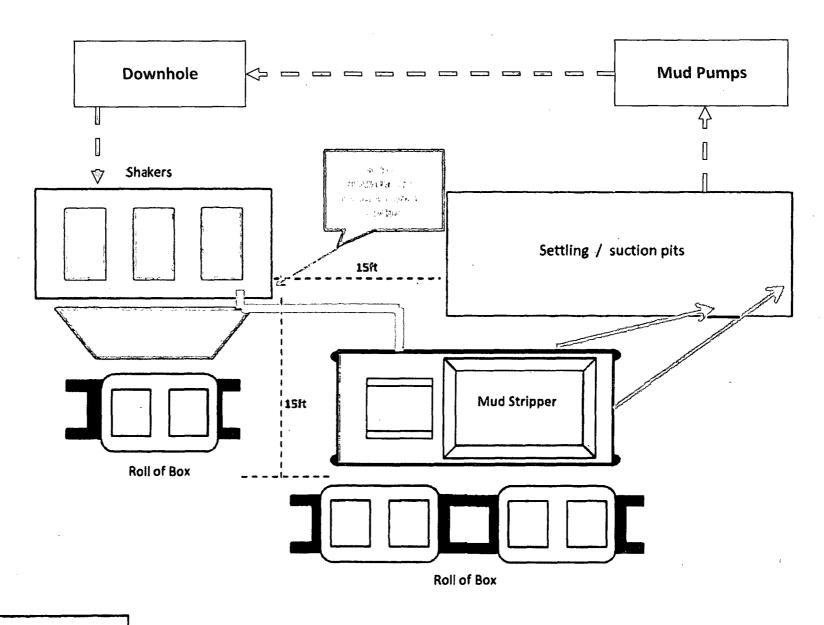
NOV certifies that the above equipment:

- 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.
- 3) Meets the applicable portions of NACE standard MR 0175/ISO 15156, First Edition for H₂S service.

Certified By:

Rita Moya

Documentation Specialist



8" Flex Hose 20 ft long

H&P Flex 4 Closed Loop Schematic