State of New Mexico Energy, Minerals & Natural Resources

rorm U-101 June 16, 2008

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

Mark Stephens@oxy.com

Date:

6/15/15

Phone:

(713) 366-5158

Oil Conservation Divsiion 1220 S. St. Francis Dr. Santa Fe. NM 87505

HOBBSOCD

Submit to appropriate District Office

JUN 1 6 2015

District IV 220 S. St. Franci	is Dr., Santa I	Fe, NM 8750)5		Santa F	e, NM	87505		AME	ENDED REPORT
	TION F	OR PEF	RMIT TO	DRIL	L, RE-E	NTER,	DEEPEN,	RECEIVED		$\langle D \rangle$
		Оре	erator Name and	d Address	•		·		² OGRID Numbe 157984	er
Occidental										
P.O. Box 43		ton, TX	77210-429	} 4	50			30-025-	API Number	
	rty Code 552			Sc	outh Hobbs	erty Name S G/SA l	Unit			ell No. 256
Hob	bs: Grayt	⁹ Proposed oung - Sa	Pool I I n Andres ((31920)				¹⁰ Proposed P	ool 2	-
Surface Lo			A-74	<u>. </u>						****
UL or lot no.	Section	Township	Range	Lot. Id	n Feet f	rom the	North/South Line	Feet from the	East/West line	County
I	4	19-5	38-E		2	2188	South	657	East	Lea ↓
Proposed F	Bottom H	lole Loca	ition If Di	fferent	From Sur	rface		-		
UL or lot no.	Section	Township	Range	Lot. Id		rom the	North/South Line	Feet from the	East/West line	County
G	4	<u>19-S</u>	38-E		1	L608	North	1638	East	Lea
Additional V										
11 Work Typ	pe Code V	'	² Well Type Cod	le	13 Cal	ble/Rotary	¹⁴ Lea	se Type Code		Level Elevation
16 Mult		- - ,	7 Proposed Dept	h	18 F	ormation	19 (19 Contractor		oud Date
N	0	455	0'TVD/505	0' MD	San	Andres		I&P 340	11	/9/15
¹ Proposed	Casing a	nd Ceme	nt Prograr	n .			1			
Hole S	ize	Cas	ing Size	Casir	ng weight/foot	t	Setting Depth	Sacks of Ceme	nt E	stimated TOC
		1								
12-1	/4	9	-5/8		36		1700	640		Surface
8-3/	' 4		7		26		5050	830		Surface
		1						•		
Describe the blow		on program, i	f any. Use add				ve the data on the pro	esent productive zo	ne and proposed	new productive zone.
0xy will	l use a c	losed-lo	op system	with stosed-lo	teel tank: oop syste	s and ha m schema	aul contents t atic is also a	to the requirettached).	ed disposal	
,								'		
²³ I hereby certify		rmation give	n above is true	and comp	lete to the bes	t	OIL C	ONSERVAT	ION DIVISI	ON
		1, < 1	,			Аррі	roved by:	3//		
rinted name:		LLSte	phen			Title	Detro	Care V		
Citle:	Mark St		lianas An				roval Date:		Expiration Date:	ochula
i mail A d 1			liance Ana	ilyst		_	06/	2T 117		~~ ~
E-mail Address:	Mark St	tephens@d	XV.COM			I				

See Attached

Conditions of Approval Attached

APD DATA - DRILLING PLAN

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: South Hobbs G/SA Unit #256

HOBBS OCD

STATE: NM

COUNTY: Lea

JUN 1 & 2015

SURFACE LOCATION:

2188' FSL & 657' FEL, Sec 4, T19S, R38E

616052.21

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SL:

Lat: X:

Lat:

X:

32.6880109'N 865164.97

LONG Y:

LONG: 103.1464492'W

New Mexico East NAD 1927

BOTTOM HOLE LOCATION:

1608' FNL & 1638' FEL, Sec 4, T19S, R38E

BHL:

32.6920916'N

864170.19

Y:

LONG: 103.1496285'W

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

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				urst 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	9.625	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' - 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
Tail: 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
Stage 2 Lead: 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
Stage 2 Tail: 3006'-4097' 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

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)P Stack		Pressure Test (psi)			
Size	Size	Pressure	Size		Pressure	Ini	tial	Subsec	quent
(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 – 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.

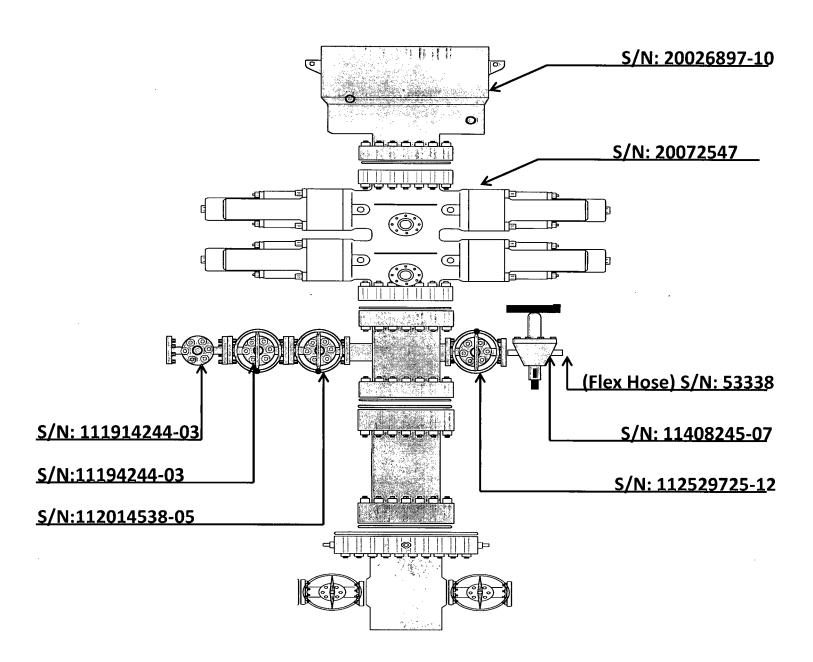
11. COMPANY PERSONNEL:

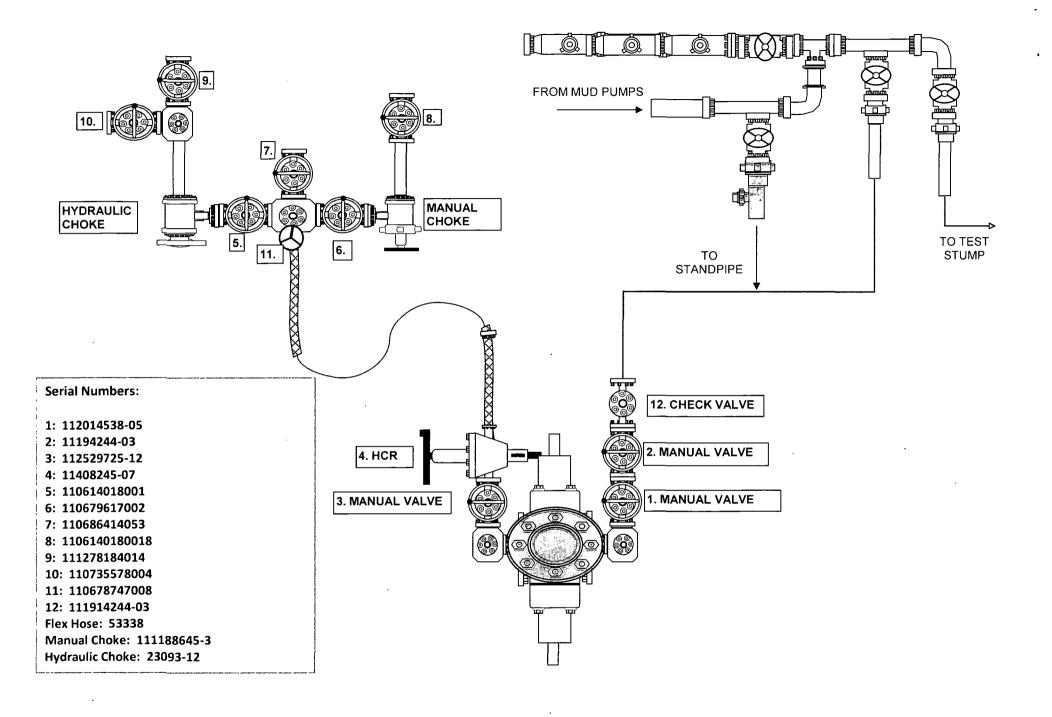
Name	Title	Office Phone
Edgar Diaz-Aguirre	Drilling Engineer	713-840-3037
Adriano Celli	Drilling Engineer Supervisor	713-985-6371
Kevin Videtich	Drilling Superintendent	713-350-4761
Chad Frazier	Drilling Manager	713-215-7357

H&P 340 BOP Diagram

HOBBS GGD JUN 1 & 2015

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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 20,072547-310
DOCUMENT PART NUMBER 29010000

REFERENCE REFERENCE DESCRIPTION BOP ASSY, 11-5M, DBL, LXT, SXF, W/(4) S/N:20072547-310 3-5M FO National Oilwell Varco This document contains proprietary and confidential information which 12950 W. Little York Instruction occurrent contains proprietarly and confidential minimation which belongs to National Oliwiell Varios, it is loaned for limited purposes only and remains the property of National Oliwell Varios. 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 Varios 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 @ National Oilwell Varco DOCUMENT NUMBER REV 20072547-310-COC-001 01



national oilwell varco

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)			

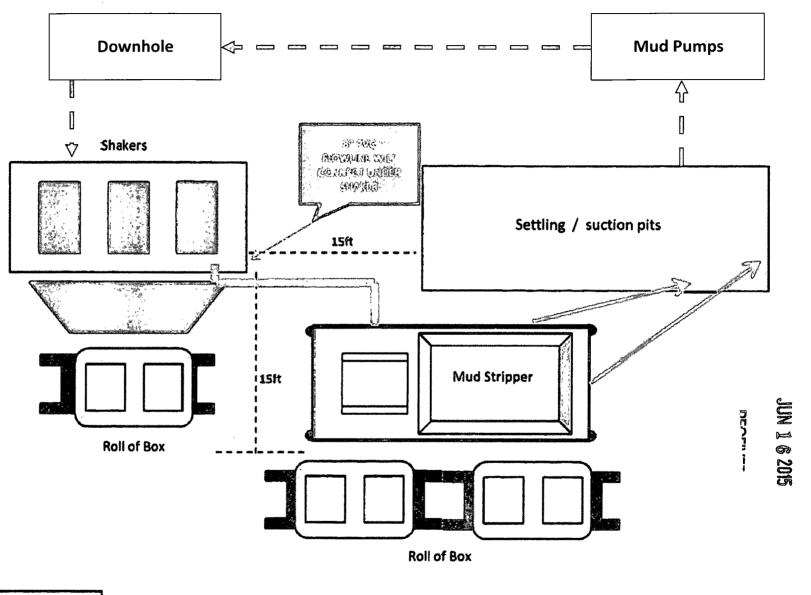
NOV certifies that the above equipment:

- 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.
- 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

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

XXXXXXX	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

XXXXXX	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface,
İ	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
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
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
XXXXXXX	Must conduct & pass MIT prior to any injection