State of New Mexico Energy, Minerals & Natural Resources

rorm C-101 June 16, 2008

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

HOBBS	G eo
	Submit to appropriate District Office 2015
D GALL	@ 5012

MAK AMENDED REPORT

District I 625 N. French Dr., Hobbs, NM 88240 Pistrict II 301 W. Grand Avenue, Artesia, NM 88210 District III 000 Rio Brazos Rd., Aztec, NM 87410 220 S. St. Francis Dr., Santa Fe, NM 87505

Date:

APPLICATION FOR	PERMIT TO DRILL	, RE-ENTER,	DEEPEN
PLUGBACK OR ADI		,	

LUUDA	CK, OK	ADD A	LONE								
•		¹ Ope	rator Name an	d Address					² OGRID Numb	er	
Occidental									157984		
P.O. Box 4		ston, TX	77210-429	94				30-02	5 - 42 V	121	
	rty Code 520			No.	⁵ Property orth Hobbs G		Jnit			ell No. 953	
9 Proposed Pool 1 Hobbs; Grayburg - San Andres (31920)								¹⁰ Proposed	Pool 2		
Surface Lo		<u> </u>	<u> </u>			1					
UL or lot no.	Section	Township	Range	Lot. Idr	n Feet from t	the	North/South Line	Feet from the	East/West line	County	
Р	18	18-S	38-E		837		South	1277	East	Lea	
Proposed I	Bottom H	lole Loca	tion If Di	fferent	From Surfac	ce			_		
UL or lot no.	Section	Township	Range	Lot. Idr	Feet from t	the	North/South Line	Feet from the	East/West line	County	
I	18	<u> 18-S</u>	38-E	<u> </u>	181	5	South	1277	<u>East</u>	Lea	
dditional V											
¹¹ Work Tyj N		13	Well Type Coo	le	13 Cable/R		¹⁴ Leas	se Type Code		Level Elevation	
16 Multi	<u> </u>	17	Proposed Dept	<u> </u>	R 18 Forma		19 (Contractor		560 . 8 '	
N)' TVD/480	4	San An			&P 340		e, 2015	
D1	О	1.0	. D						r		
Proposed		т——		r —					T ·		
Hole S	ize	Casi	ng Size	Casin	g weight/foot	_	Setting Depth	Sacks of Cem	ent E	Estimated TOC	
				<u> </u>		<u> </u>		_			
12-1.	/4	9.	5/8		36		1650	650		Surface	
8-3/	<u> </u>		7		26		4800 \	800		Surface	
·						7 000					
					ets if necessary. See Att		·	E-P Con CSN ReC	ERMITTING - np P&A IG Loc	- New Well TAChngAdd New Well_Create Pool	
³ I hereby certify that the information given above is true and complete to the best							OIL C	ONSERVAT	TION DIVIS	ION	
f my knowledge and belief.											
ignature: MONE Stephen						Approved by:					
inted name:	Mark St	ephens				Title	: Petroleum E	Ingineer			
tle:	Regulat	ory Comp	liance Ana	nlyst			roval Date: 1931	7 .	Expiration Date:	03/11/17	
-mail Address:	Mark St	cephens@o:	xy.com				- 77			/ • • • • •	
Oate: 3/5/15			Phone:) 366-5	5158	Conc	litions of Approval	Attache	Attache		
	3/5/15 (713) 366-5158					<u> </u>		04			

WEE ____

APD DATA - DRILLING PLAN

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: North Hobbs G/SA Unit #953

STATE: NM

COUNTY: Lea

SURFACE LOCATION:

837' FSL & 1277' FEL, Sec 18, T18S, R38E

SL:

Lat:

X:

X:

32.7424056'N 853717.11

Y:

Y:

LONG: 103.1829577'W

635718.82

New Mexico East NAD 1927

BOTTOM HOLE LOCATION:

1815' FSL & 1277' FEL, Sec 18, T18S, R38E

BHL:

Lat:

32.7450935'N 853705.55

LONG: 103.1829607'W

636696.76

New Mexico East NAD 1927

C-102 PLAT APPROX GR ELEV: 3660.8'

EST KB ELEV: 3677.3' (16.5' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

Formation	TV Depth Top*	Expected Fluids
Base Red Beds	282	Fresh Water
Rustler	1597	Formation Fluid
Top of Salt	1712	Formation Fluid
Base of Salt	2747	Formation Fluid
Queen	3512	Formation Fluid
Grayburg	3847	Formation Fluid
Basal Grayburg	4027	Formation Fluid
San Andres	4132	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 4800' MD / 4700' TVD

OBJECTIVE: San Andres

CASING PROGRAM

Surface Casing: 9.625" 36# J55 LTC casing set at ± 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 4800'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)	1 1	(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	Ft³/sk	24 Hr Comp
Surface (TOC:	0' - 1631')						1
Lead: 0' – 1234' 100% Excess	450	1234	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: 1234' – 1631' 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	Ft³/sk	24 Hr Comp
Production (T	OC: 0' - 474	 8')					
Stage 1 Primary: 3942'-4748' 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	1181 psi
Stage 2 Lead: 0' - 1631' 10 % Excess 1631' - 2908' 200 % Excess	370	2908	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: 2908'-3942' 100 % Excess	210	1034	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' - 4800' 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	TE (1)	Size	Pressure	Ini	tial	Subse	quent
(in.)	(in.)	(psi)	Type ⁽¹⁾	(in.)	(psi)	Rams	Ann	Rams	Ann
9 5/8"	11"	3000	R, R, A, G	11"	5000	250/ 1800	250/1800	250/1800	250/1800

- 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 250/1800 psi for 10.
- 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 - 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 – 4800	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:

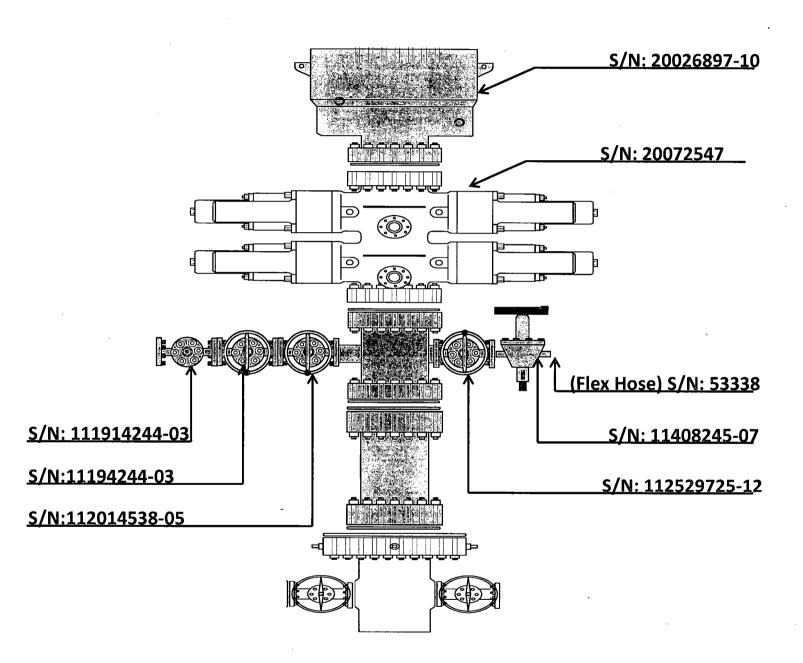
Name	Title	Office Phone
Edgar Diaz-Aguirre	Drilling Engineer	713-840-3037
Adriano Celli	Drilling Engineer Supervisor	713-985-6371
Kevin Videtich	Drilling Superintendent	713-350-4761
Chad Frazier	Drilling Manager	713-215-7357

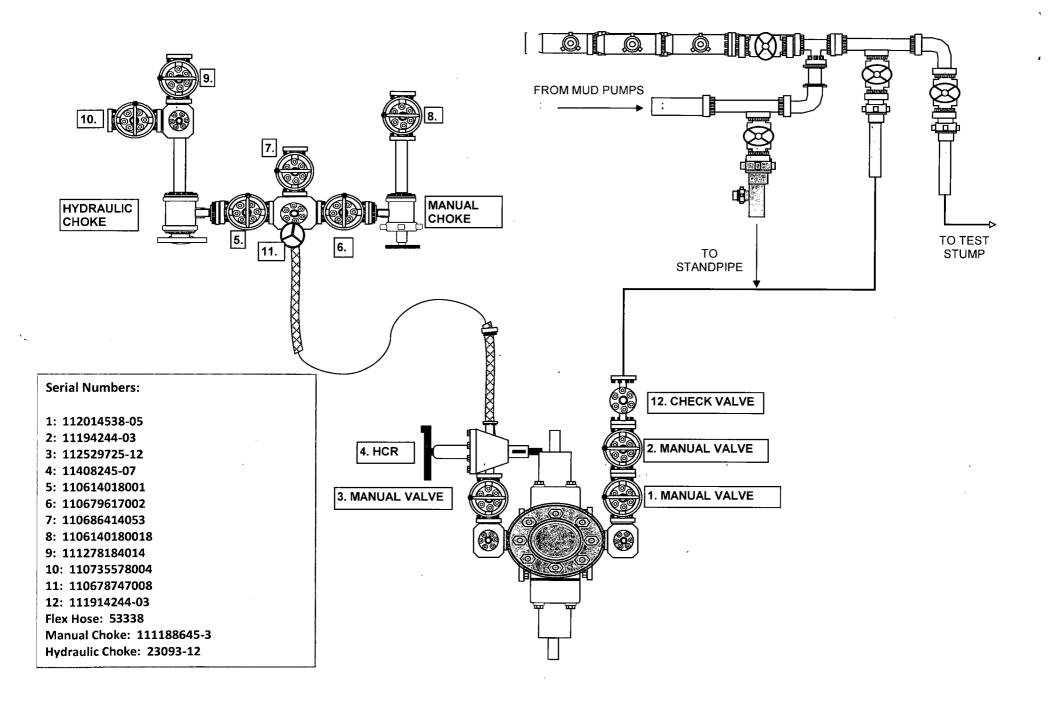
H&P 340 BOP Diagram

HOBBS OCD

MAR 0 6 2015

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Certificate of Conformance

S/N: 20072547-310

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

W/(4) 3-5M FO

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

DOCUMENT NUMBER 20072547-310-C	OC-001		REV 01				
This document contains proprietary an belongs to National Oilwell Varco, it is remains the property of National Oilwe part, or use of this design or distribution permitted without the express written of document is to be returned to National any event upon completion of the use to National Oilwell Varco	loaned for limited purposes only and Il Varco, Reproduction, in whole or in n of this information to others is not onsent of National Oilwell Varco. This Oilwell Varco upon request and in	National Oilv 12950 W. Litt Houston, TX Phone 713-93 Fax 713-849-	le York 77041 37-5000				
S/N:20072547-310	REFERENCE DESCRIPTION BOP ASSY, 11-5M, DBL, LXT, SXF, W/(4 3-5M FO						



MATIONAL 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)	

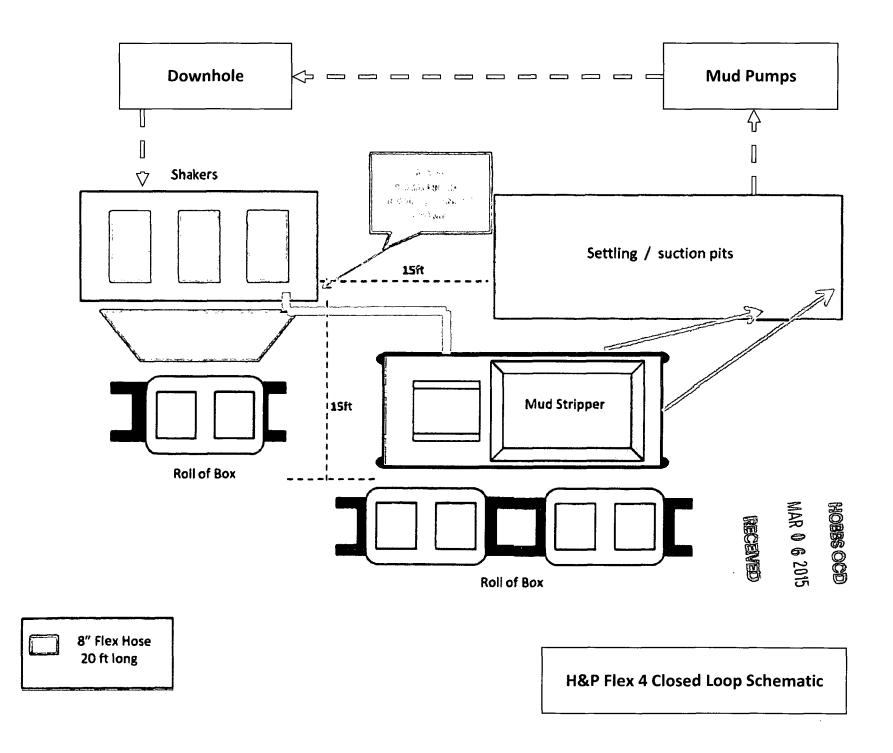
NOV certifies that the above equipment:

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

Certified By:

Rita Moya

Documentation Specialist



CONDITIONS OF APPROVAL

API#	Operator	Well name & Number
30-025-42469	Occidental Permian LTD	North Hobbs G/SA Unit # 953

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 well
XXXXXXXX	Will require administrative order for injection or disposal prior to injection or disposal

Other wells

			,
Dril	lli	nσ	

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

Casing

XXXXXX	SURFACE CASING - Cement must circulate to surface
XXXXXX	PRODUCTION CASING - Cement must circulate to surface
XXXXXX	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