

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
District IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
June 16, 2008

HOBBS OCD

Submit to appropriate District Office

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

JUN 22 2015

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE

RECEIVED

<D>

¹ Operator Name and Address Occidental Permian Ltd. P.O. Box 4294, Houston, TX 77210-4294		² OGRID Number 157984
⁴ Property Code 19552	⁵ Property Name South Hobbs G/SA Unit	³ API Number 30-025-42648
⁹ Proposed Pool 1 Hobbs; Grayburg - San Andres (31920)		⁶ Well No. 258
¹⁰ Proposed Pool 2		

Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	4	19-S	38-E		2188	South	557	East	Lea

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	3	19-S	38-E		1595	North	895	West	Lea

Additional Well Location

¹¹ Work Type Code N	¹² Well Type Code I	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3610.9'
¹⁶ Multiple No	¹⁷ Proposed Depth 4550' TVD/5250' MD	¹⁸ Formation San Andres	¹⁹ Contractor H&P 340	²⁰ Spud Date 11/28/15

¹ 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	1700	640	Surface
8-3/4	7	26	5250	860	Surface

² 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 for BOP program.

Oxy will use a closed-loop system with steel tanks and haul contents to the required disposal facility per OCD Rule 19.15.17 (closed-loop system schematic is also attached).

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Mark Stephens

Printed name: Mark Stephens

Title: Regulatory Compliance Analyst

E-mail Address: Mark.Stephens@oxy.com

Date: 6/19/15

Phone: (713) 366-5158

OIL CONSERVATION DIVISION

Approved by:

Title: Petroleum Engineer

Approval Date: 06/24/15

Expiration Date: 06/24/17

See Attached

Conditions of Approval Attached ☐

Conditions of Approval

JUN 24 2015

APD DATA – DRILLING PLAN

HOBBS OCD

JUN 22 2015

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OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: South Hobbs G/SA Unit #258

STATE: NM

COUNTY: Lea

SURFACE LOCATION: 2188' FSL & 557' FEL, Sec 4, T19S, R38E

SL: Lat: 32.6880104°N LONG: 103.1461242°W
X: 865264.97 Y: 616053.16 New Mexico East NAD 1927

BOTTOM HOLE LOCATION: 1595' FNL & 895' FWL, Sec 3, T19S, R38E

BHL: Lat: 32.6921225°N LONG: 103.1413977°W
X: 866702.46 Y: 617565.57 New Mexico East NAD 1927

C-102 PLAT APPROX GR ELEV: 3610.9'

EST KB ELEV: 3627.4' (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	1552	Formation Fluid
Top of Salt	1657	Formation Fluid
Base of Salt	2717	Formation Fluid
Queen	3442	Formation Fluid
Grayburg	3757	Formation Fluid
Basal Grayburg	3947	Formation Fluid
San Andres	4037	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 5250' MD / 4550' TVD

OBJECTIVE: San Andres

3. CASING PROGRAM

Surface Casing: 9.625" 36# J55 LTC casing set at ± 1700' MD/ 1675' TVD in a 12.25" hole filled with 9.5 ppg mud

Production Casing: 7" 26# J55 LTC casing set at ± 5250' MD/ 4550' TVD in a 8.75" hole filled with 10.5 ppg mud

String	OD (in)	ID (in)	Coupling OD (in)	Drift (in)	Weight (#/ft)	Grade	CXN	Burst (psi)	Collapse (psi)	Tension (k-lbs)	Torque (ft-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	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC: 0' – 1602')							
Lead: 0' – 1205' 100% Excess	440	1205	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: 1205' – 1602' 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	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (TOC: 0' - 5086')							
Stage 1 Primary: 4267' - 5086' 85% Excess	220	819	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' – 1602' 10 % Excess 1602' – 3064' 200 % Excess	400	3064	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: 3604' - 4267' 100 % Excess	240	1203	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' - 5250' 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 (in.)	Wellhead Flange		BOP Stack			Pressure Test (psi)			
	Size (in.)	Pressure (psi)	Type ⁽¹⁾	Size (in.)	Pressure (psi)	Initial		Subsequent	
						Rams	Ann	Rams	Ann
9 5/8"	11"	3000	R, R, A, G	11"	5000	250/3000	250/2100	250/3000	250/2100

- 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.
- 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.
- 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.
- See attached BOP & Choke manifold diagrams.

6. MUD PROGRAM:

Depth (ft)	Mud Weight (ppg)	Viscosity (sec/qt)	Fluid Loss (cc's)	pH	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 – 5250	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.

- 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 full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- 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:

- Mud Logger: None.
- DST's: None.
- 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:

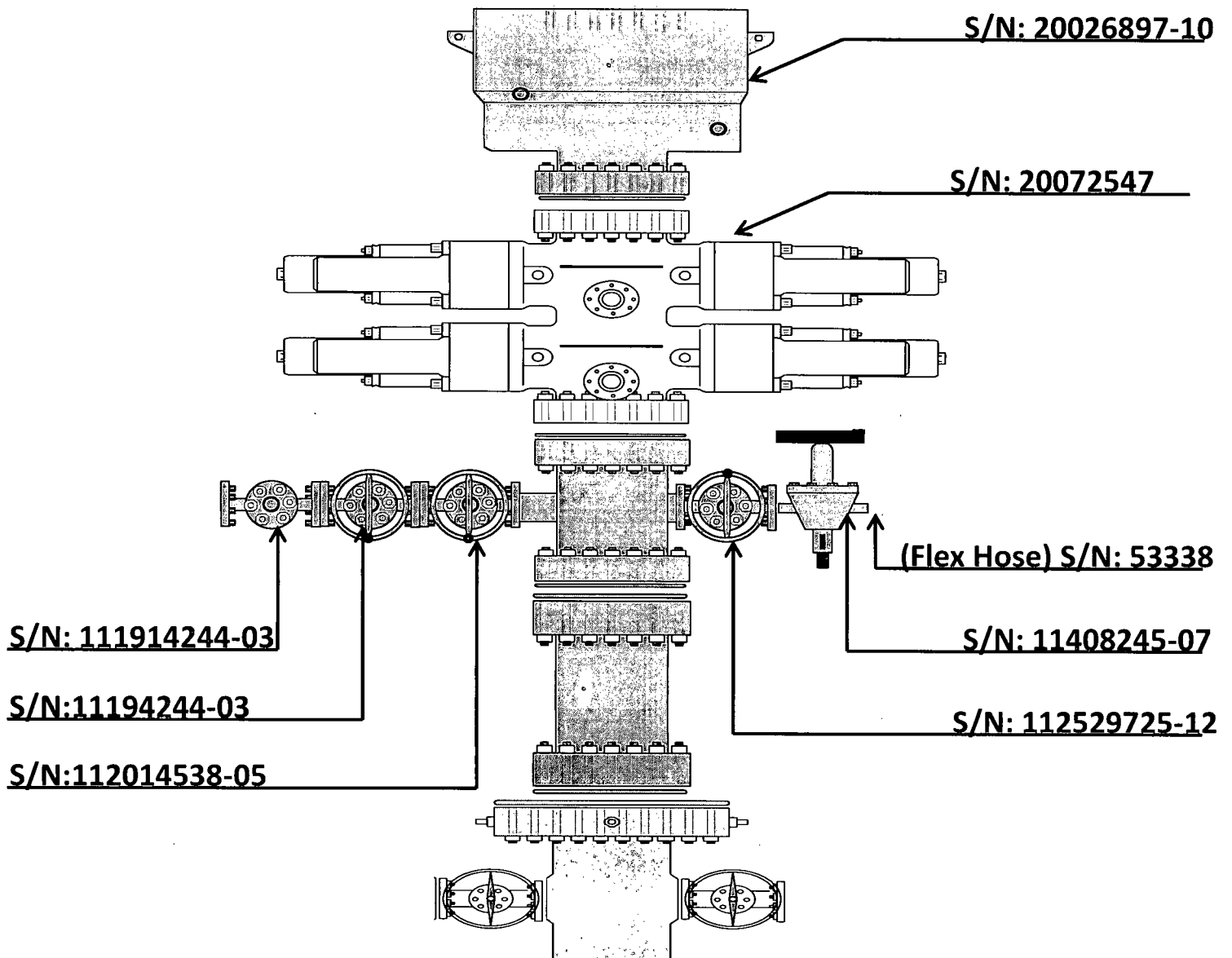
Name	Title	Office Phone
Edgar Diaz-Aguirre	Drilling Engineer	713-840-3037
Adriano Celli	Drilling Engineer Supervisor	713-985-6371
Kevin Videtich	Drilling Superintendent	713-350-4761
Chad Frazier	Drilling Manager	713-215-7357

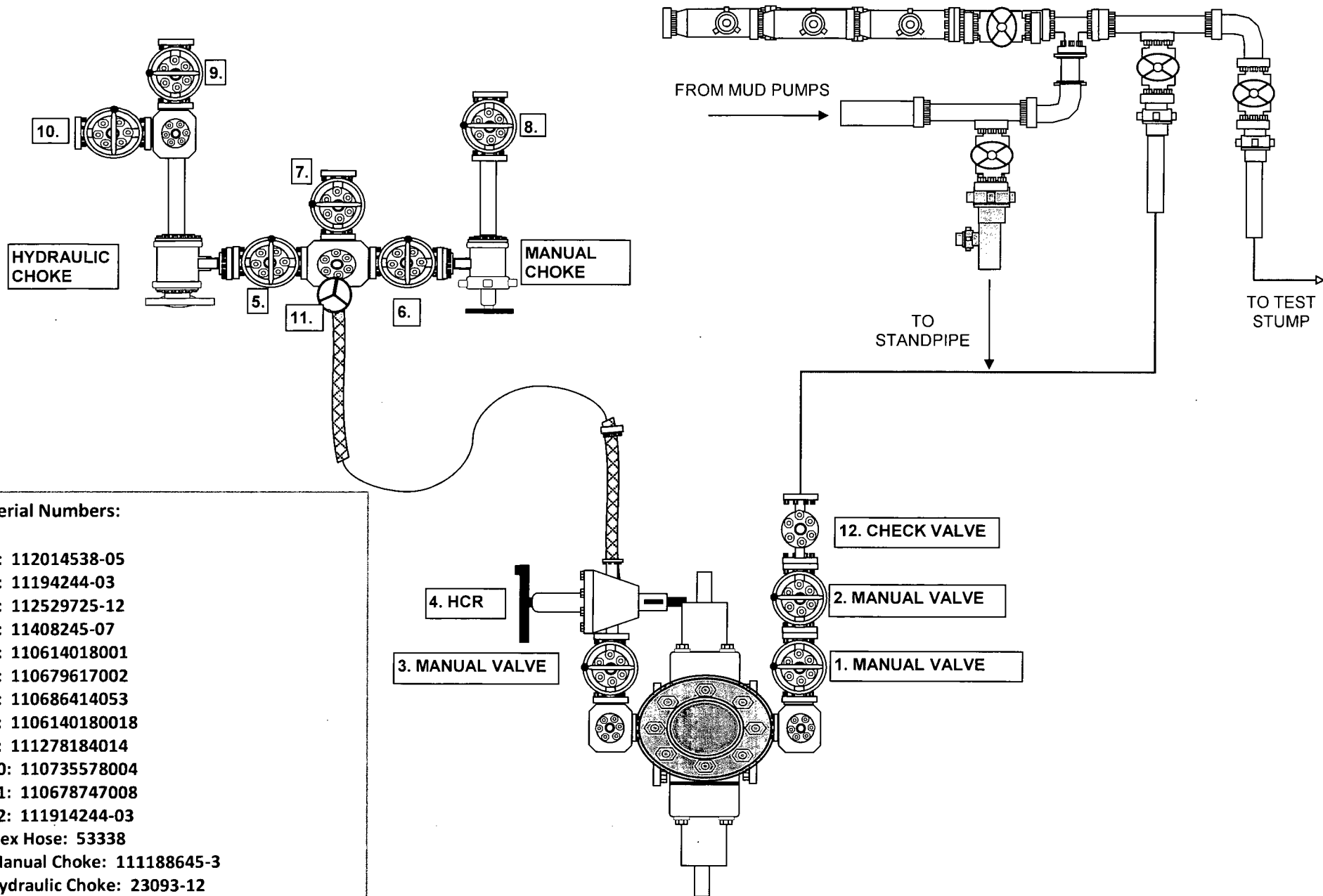
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JUN 22 2015

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H&P 340 BOP Diagram





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

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

Document number	20072547-310-COC-001
Revision	01

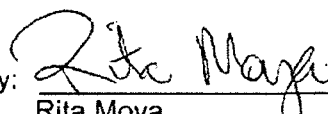
NOV CERTIFICATE OF CONFORMANCE

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)

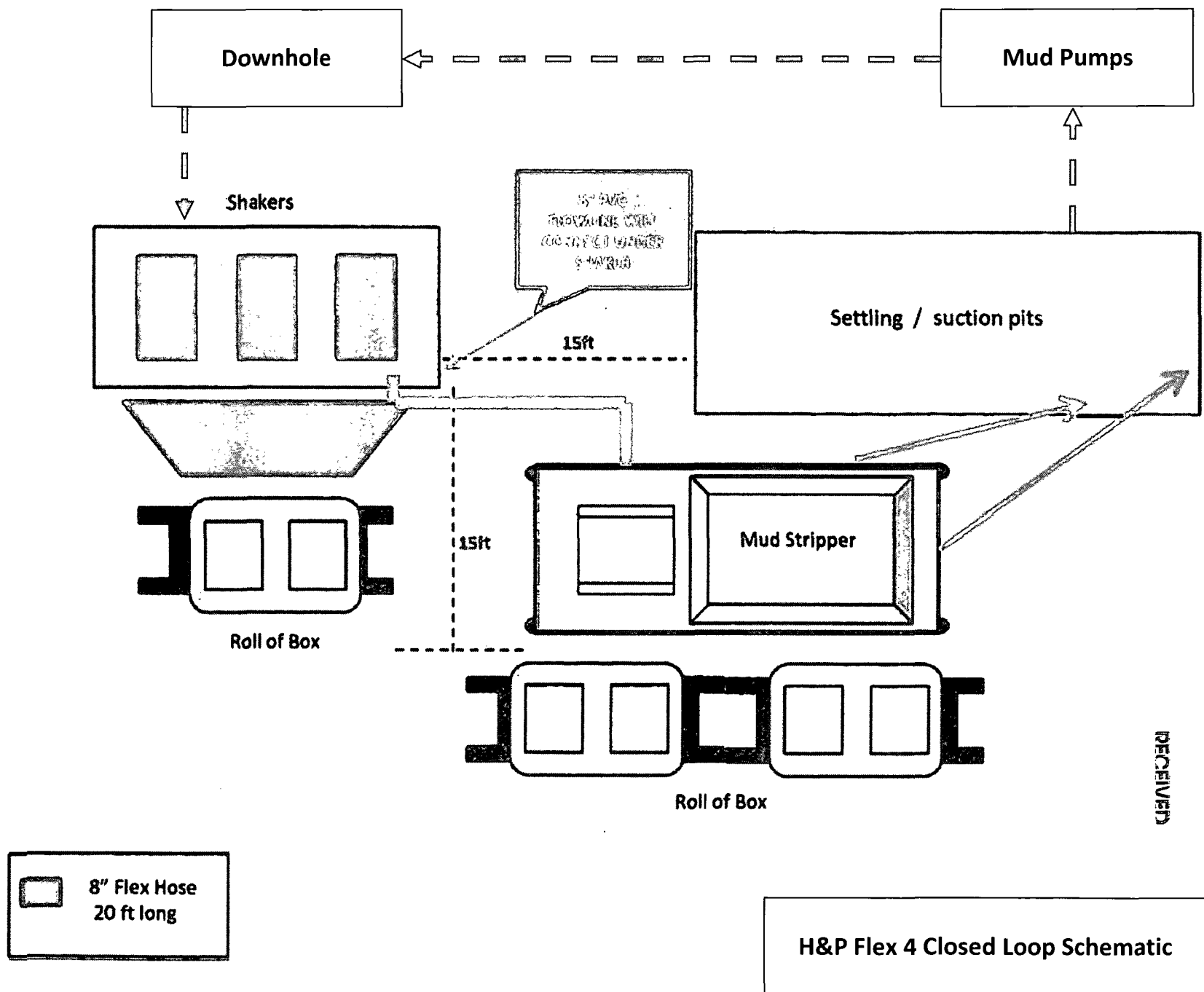
NOV certifies that the above equipment:

- 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





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JUN 22 2015
HOBBS OGD

CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42648	Occidental Permian LTD	South Hobbs G/SA Unit # 258

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

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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

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

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