

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

I & E CFO

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**5. Lease Serial No.
NMNM06245

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
MISTY 35 FEDERAL COM 3H9. API Well No.
30-015-41416-00-X110. Field and Pool, or Exploratory
LEO11. County or Parish, and State
EDDY COUNTY, NM1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
OXY USA WTP LPContact: JANA MENDIOLA
E-Mail: janalyn_mendiola@oxy.com3a. Address
HOUSTON, TX 772103b. Phone No. (include area code)
Ph: 432-685-5936
Fx: 432-685-57424. Location of Well. (Footage, Sec., T., R., M., or Survey Description)
Sec 35 T18S R30E SESE 550FSL 120FEL

RECEIVED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

OXY USA WTP LP. respectfully requests approval for the following changes to the drilling plan:

Proposed TD - 13207'M 8642'V

1. Request casing design modification, to drill the well with smaller bit sizes:
14-3/4" surface hole w/ 10-3/4" csg, 9-7/8" intermediate hole w/ 7-5/8" csg and 6-3/4" production hole w/ 5-1/2" & 4-1/2" csg. Details are below.

a. Surface Casing
10-3/4" 45.5# J-55 BT&C new csg @ 0-525', 14-3/4" hole w/ 8.4# mud

Coll Rating (psi)-2090 Burst Rating (psi)-3580

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 13 2015

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Accepted for record

CED NMOC 8/14/15

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #309709 verified by the BLM Well Information System For OXY USA WTP LP, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 08/06/2015 (15CRW0094SE)	
Name (Printed/Typed) DAVID STEWART	Title SR. REGULATORY ADVISOR
Signature (Electronic Submission)	Date 07/20/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office	Date

APPROVED

AUG 7 2015

/s/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #309709 that would not fit on the form

32. Additional remarks, continued

SF Coll-9.14 SF Burst-1.42 SF Ten-5.85

b. Intermediate Casing

7-5/8" 26.4# L80 BT&C new csg @ 0-3725', 9-7/8" hole w/ 10.0# mud

Coll Rating (psi)-3400 Burst Rating (psi)-6020

SF Coll-6.93 SF Burst-1.36 SF Ten-3.28

c. Production Casing

5-1/2" 20# P-110 USF new csg @ 0-8775'M, 6-3/4" hole w/ 9.2# mud

Coll Rating (psi)-11100 Burst Rating (psi)-12600

SF Coll-2.67 SF Burst-1.26 SF Ten-2.30

4-1/2" 13.5# P-110 BT&C new csg @ 8775-13207'M; 6-3/4" hole w/ 9.2# mud

Coll Rating (psi)-10670 Burst Rating (psi)-12410

SF Coll-2.57 SF Burst-1.25 SF Ten-2.81

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions

2. Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed below.

a. Surface - Circulate cement to surface w/ 560sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 1415# 24hr CS 150% Excess.

b. Intermediate - Circulate cement to surface w/ 780sx HES light PP cmt w/ 5% Salt + .1% HR-800, 12.9ppg 1.85 yield 824# 24hs CS 125% Excess followed by 200sx PP cmt, 14.8ppg 1.33 yield 1789# 24hr CS 125% Excess.

c. Production - Cement w/ 170sx Tuned Light (TM) system cmt w/ 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + .8% HR-601, 10.2ppg 3.05 yield 555# 24hr CS 25% Excess followed by 520sx Super H cmt w/ 3#/sx salt + .1% HR-800 + .3% CFR-3 + .5% Halad(R)-344 + 2#/sx Kol-Seal, 13.2ppg 1.65 yield 1462# 24hr CS 25% Excess. Estimated TOC @ 3100'.

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); CFR-3 (Dispersant); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

3. Mud Program

Depth	Mud WT	Vis Sec	Fluid Loss	Type
0-525'	8.5-9.0	40-55	50-75cc/30min	EnerSeal Spud Mud (MMH)
525-3725'	9.8-10	28-32	NC	NaCl Brine
3725-TD	8.8-9.6	38-50	50-75cc/30min	EnerSeal (MMH)

4. The Operator will connect the BOP choke outlet to the choke manifold using a hose that meets all BLM requirements and will be inspected and approved by BLM personnel prior to spud.

PERFORMANCE DATA

TMK Ultra Premium SF™
Technical Data Sheet

5.500 in

20.00 lbs/ft

P-110

Tubular Parameters

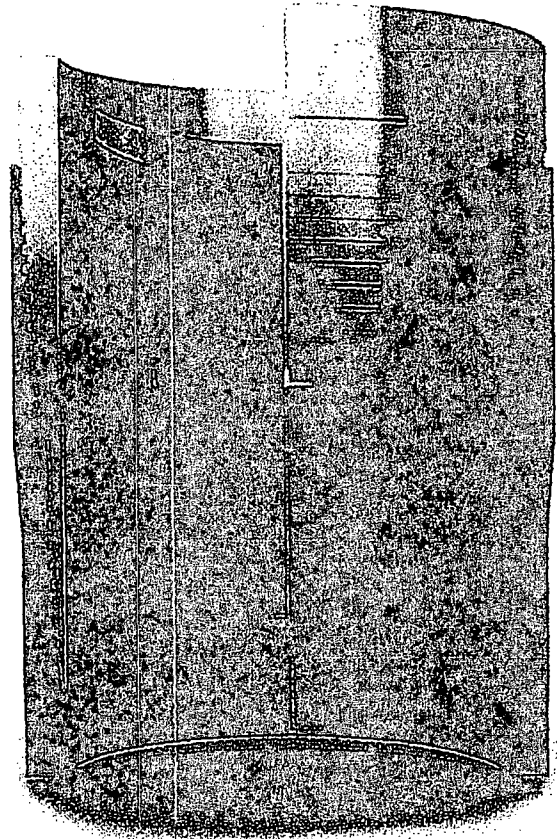
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	20.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P-110		Yield Load	641,000	lbs
PE Weight	19.81	lbs/ft	Tensile Load	728,000	lbs
Wall Thickness	0.361	in	Min. Internal Yield Pressure	12,600	psi
Nominal ID	4.778	in	Collapse Pressure	11,100	psi
Drift Diameter	4.653	in			
Nom. Pipe Body Area	5.828	in ²			

Connection Parameters

Connection OD	5.646	in
Connection ID	4.734	in
Make-Up Loss	5.526	in
Critical Section Area	5.289	in ²
Tension Efficiency	90.5	%
Compression Efficiency	90.5	%
Yield Load In Tension	580,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi

Make-Up Torques

Min. Make-Up Torque	10,100	ft-lbs
Opt. Make-Up Torque	10,600	ft-lbs
Max. Make-Up Torque	11,700	ft-lbs
Yield Torque	15,600	ft-lbs



Printed on: February-25-2014

NOTE:

The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by TMK IPSCO and might not be the latest information. Anyone using the information herein does so at their own risk. To verify that you have the latest TMK IPSCO technical information, please contact TMK IPSCO Technical Sales toll-free at 1-888-258-2000.



OXY USA Inc.
Misty 35 Federal Com, #3H

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Fresh water displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

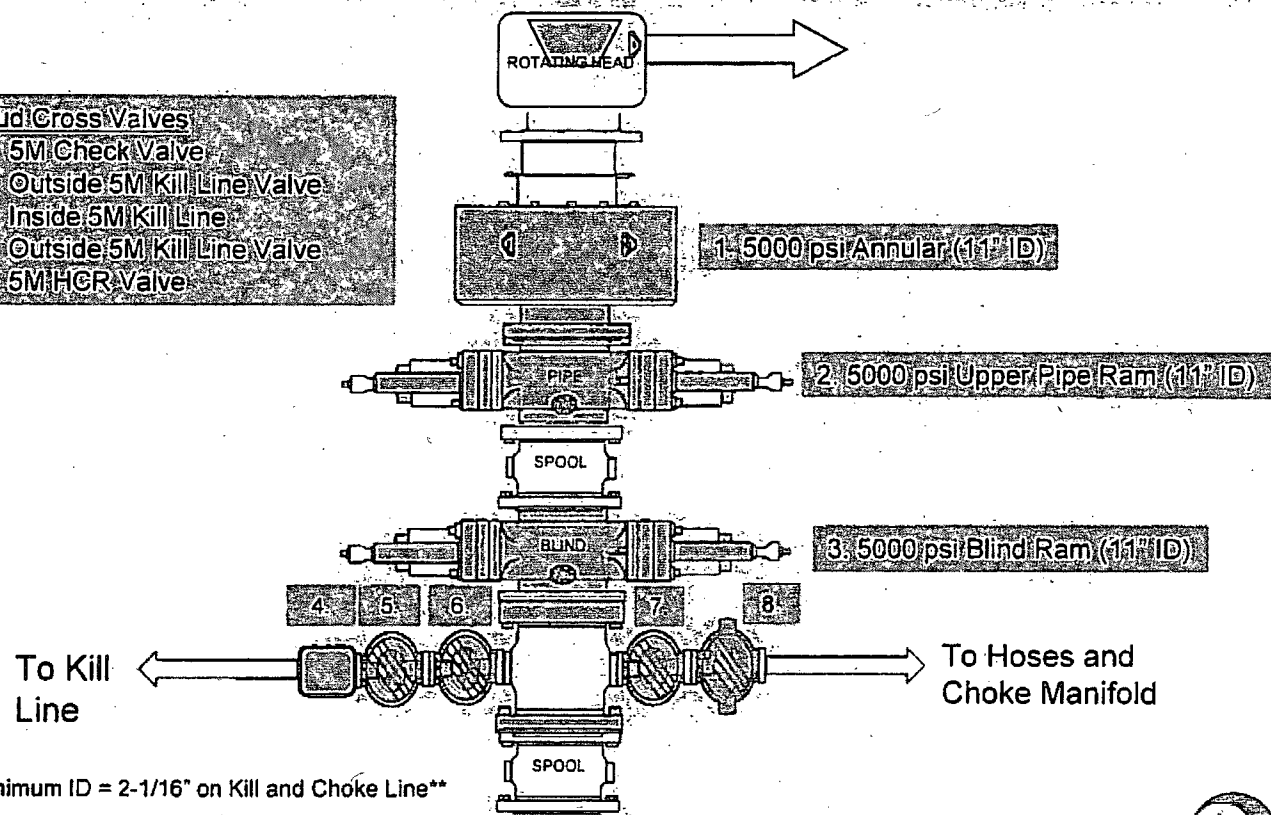
- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

5M BOP Stack

Mud Cross Valves

- 4. 5M Check Valve
- 5. Outside 5M Kill Line Valve
- 6. Inside 5M Kill Line
- 7. Outside 5M Kill Line Valve
- 8. 5M HCR Valve

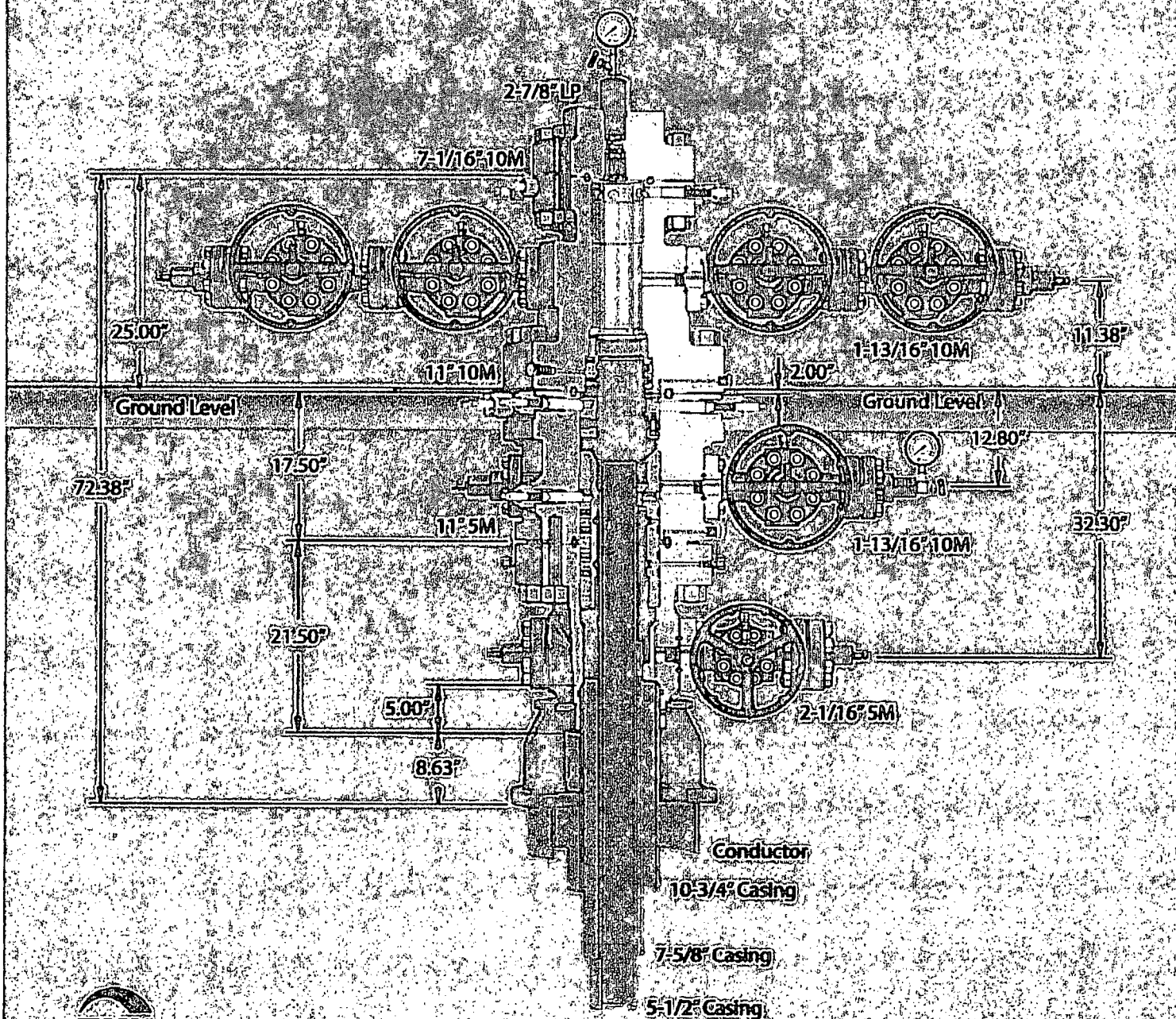


** Minimum ID = 2-1/16" on Kill and Choke Line**



CAMERON

11" 10M MBS Wellhead

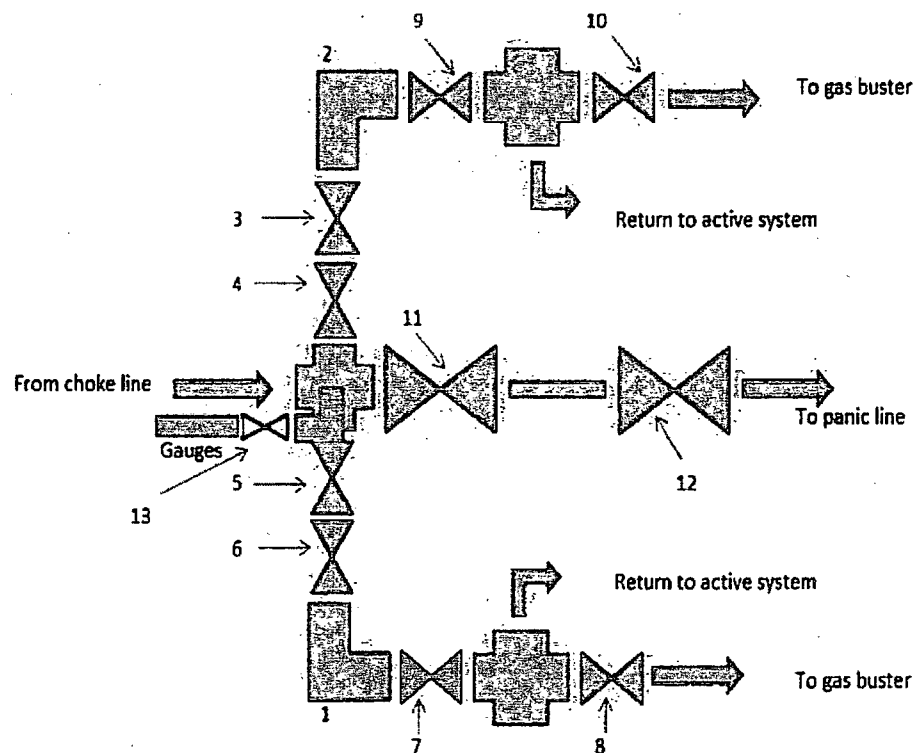


Barilla Draw

C8815

NOTE: All dimensions are in inches unless otherwise specified.
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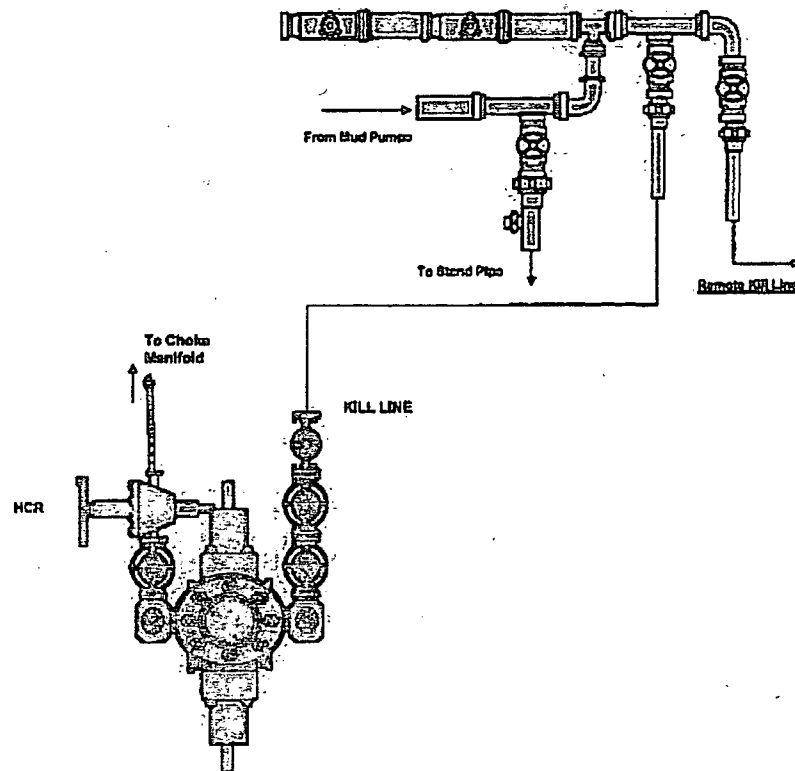
5M Choke Panel



- 1- POWER CHOKE
- 2- MANUAL CHOKE
- 3- 2 1/16" CHOKEMANIFOLD VALVE
- 4- 2 1/16" CHOKEMANIFOLD VALVE
- 5- 2 1/16" CHOKEMANIFOLD VALVE
- 6- 2 1/16" CHOKEMANIFOLD VALVE
- 7- 2 1/16" CHOKEMANIFOLD VALVE
- 8- 2 1/16" CHOKEMANIFOLD VALVE
- 9- 2 1/16" CHOKEMANIFOLD VALVE
- 10- 2 1/16" CHOKEMANIFOLD VALVE
- 11- 3" CHOKEMANIFOLD VALVE
- 12- 3" CHOKEMANIFOLD VALVE
- 13- 2 1/16 CHOKE MANIFOLD VALVE

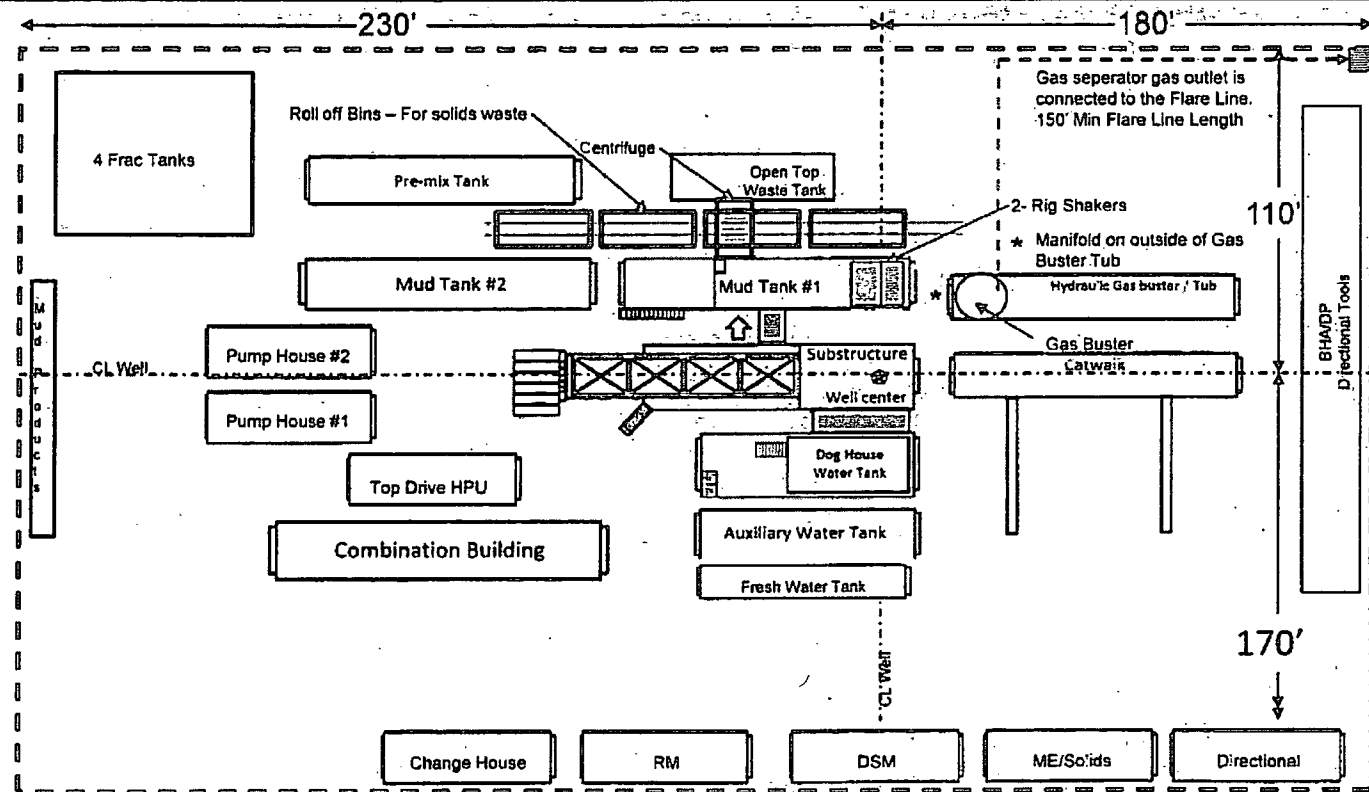


10M Remote Kill Line Schematic



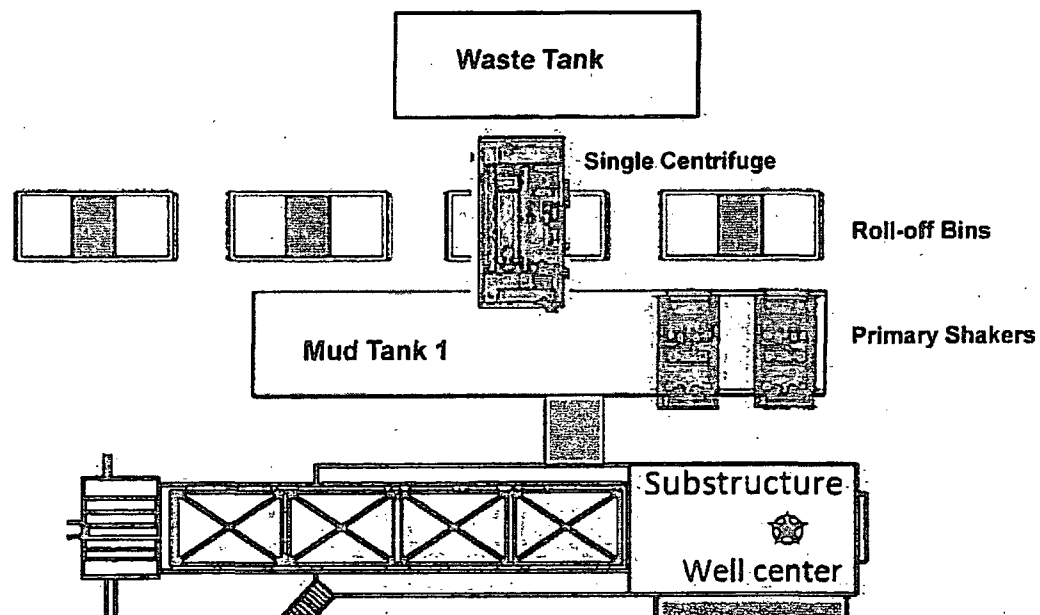
Oxy Single Centrifuge - Closed Loop System

New Mexico - Canelson Drilling Rig



Oxy Single Centrifuge - Closed Loop System

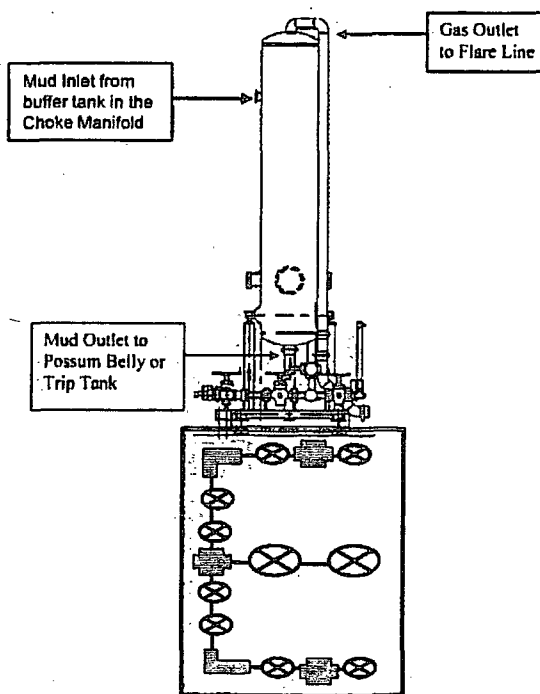
New Mexico - Canelson Drilling Rig



Choke Manifold – Gas Separator

New Mexico – Canelson Drilling Rig

Choke Manifold – Gas Separator (Side View)



NM OIL CONSERVATION

ARTESIA DISTRICT

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OXY

Eddy County, NM (NAD 27 NME)

Misty 35 Fed 3H

M35 F 3H

OH

Plan: Plan #1

Standard Planning Report

15 December, 2014



www.scientificdrilling.com



M35 F 3H
Eddy County, NM (NAD 27 NME)
Northing: 617893.30
Easting: 622858.00
Plan #1



Azimuths to Grid North
True North: -0.22°
Magnetic North: 7.32°

Magnetic Field
Strength: 48461.8nT
Dip Angle: 60.47°
Date: 12/15/2014
Model: BGGM2014

To convert Magnetic North to Grid, Add 7.32°
To convert True North to Grid, Subtract 0.22°



KB @ 3541.50usft
Gr @ 3516.50

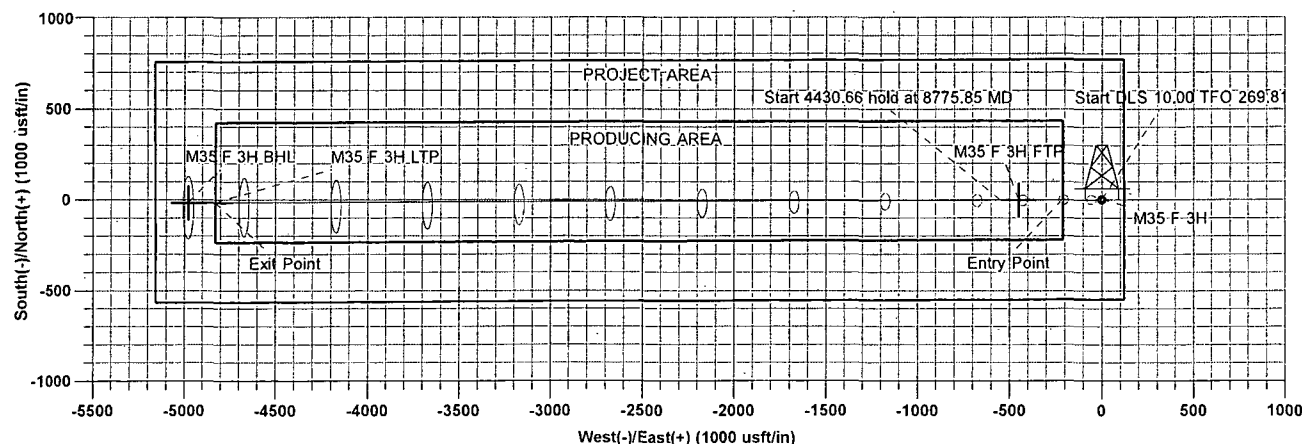
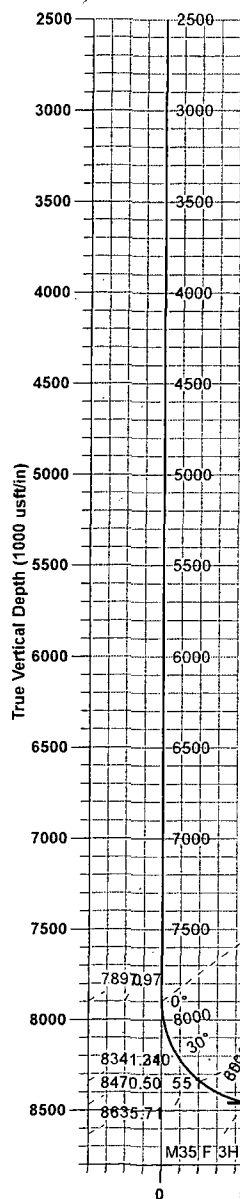
WELL DETAILS M35 F 3H						
Ground Level: 3516.50						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	617893.30	622858.00	32° 41' 52.984 N	103° 56' 2.244 W	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7897.97	0.00	0.00	7897.97	0.00	0.00	0.00	0.00	0.00	
8775.85	87.79	269.81	8470.50	-1.79	-550.84	10.00	269.81	550.84	
13206.51	87.79	269.81	8641.50	-16.19	-4978.18	0.00	0.00	4978.21	M35 F 3H BHL

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	
M35 F 3H FTP	8457.50	-1.50	-450.00	617891.80	622408.00	
M35 F 3H LTP	8635.70	-15.70	-4828.30	617877.60	618029.70	
M35 F 3H BHL	8641.50	-16.19	-4978.18	617877.11	617879.82	

SITE DETAILS:	
Misty 35 Fed 3H	
Site Centre Northing: 617893.30	
Easting: 622858.00	
Positional Uncertainty: 0.00	
Convergence: 0.22	
Local North: Grid	

PROJECT DETAILS:	
Eddy County, NM (NAD 27 NME)	
Geodetic System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone: New Mexico East 3001	
System Datum: Mean Sea Level	



Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F 3H
Company:	OXY	TVD Reference:	KB @ 3541.50usft
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	KB @ 3541.50usft
Site:	Misty 35 Fed 3H	North Reference:	Grid
Well:	M35 F 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Eddy County, NM (NAD 27 NME): New Mexico:		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Misty 35 Fed 3H		
Site Position:	Map	Northing:	617,893.30 usft
From:	Map	Easting:	622,858.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 52.984 N
		Longitude:	103° 56' 2.244 W
		Grid Convergence:	0.22 °

Well:	M35 F 3H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 41' 52.984 N
		Longitude:	103° 56' 2.244 W
		Ground Level:	3,516.50 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2014	12/15/2014	7.53
			Dip Angle
			60.47
			Field Strength
			48,462

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			269.81

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(bearing)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,897.97	0.00	0.00	7,897.97	0.00	0.00	0.00	0.00	0.00	0.00	
8,775.85	87.79	269.81	8,470.50	-1.79	-550.84	10.00	10.00	-10.27	269.81	
13,206.51	87.79	269.81	8,641.50	-16.19	-4,978.18	0.00	0.00	0.00	0.00	M35 F 3H BHL

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F-3H
Company:	OXY	TVD Reference:	KB @ 3541.50usft
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	KB @ 3541.50usft
Site:	Misty 35 Fed 3H	North Reference:	Grid
Well:	M35 F-3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F 3H
Company:	OXY	TVD Reference:	KB @ 3541.50usft
Project:	Eddy County NM (NAD 27 NME)	MD Reference:	KB @ 3541.50usft
Site:	Misty 35 Fed 3H	North Reference:	Grid
Well:	M35 F 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,897.97	0.00	0.00	7,897.97	0.00	0.00	0.00	0.00	0.00	0.00
Start DLS 10.00 TFO 269.81									
7,900.00	0.20	269.81	7,900.00	0.00	0.00	0.00	10.00	10.00	0.00
7,950.00	5.20	269.81	7,949.93	-0.01	-2.36	2.36	10.00	10.00	0.00
8,000.00	10.20	269.81	7,999.46	-0.03	-9.06	9.06	10.00	10.00	0.00
8,050.00	15.20	269.81	8,048.22	-0.07	-20.05	20.05	10.00	10.00	0.00
8,100.00	20.20	269.81	8,095.84	-0.11	-35.25	35.25	10.00	10.00	0.00
8,150.00	25.20	269.81	8,141.95	-0.18	-54.54	54.54	10.00	10.00	0.00
8,200.00	30.20	269.81	8,186.21	-0.25	-77.78	77.78	10.00	10.00	0.00
8,250.00	35.20	269.81	8,228.27	-0.34	-104.78	104.79	10.00	10.00	0.00
8,300.00	40.20	269.81	8,267.81	-0.44	-135.35	135.35	10.00	10.00	0.00
8,350.00	45.20	269.81	8,304.55	-0.55	-169.25	169.25	10.00	10.00	0.00
8,400.00	50.20	269.81	8,338.18	-0.67	-206.22	206.23	10.00	10.00	0.00
8,404.95	50.70	269.81	8,341.34	-0.68	-210.04	210.04	10.00	10.00	0.00
Entry Point:									
8,450.00	55.20	269.81	8,368.47	-0.80	-245.99	245.99	10.00	10.00	0.00
8,500.00	60.20	269.81	8,395.18	-0.94	-288.24	288.24	10.00	10.00	0.00
8,550.00	65.20	269.81	8,418.10	-1.08	-332.65	332.66	10.00	10.00	0.00
8,600.00	70.20	269.81	8,437.07	-1.23	-378.90	378.90	10.00	10.00	0.00
8,650.00	75.20	269.81	8,451.93	-1.39	-426.62	426.63	10.00	10.00	0.00
8,700.00	80.20	269.81	8,462.57	-1.55	-475.46	475.46	10.00	10.00	0.00
8,750.00	85.20	269.81	8,468.92	-1.71	-525.04	525.04	10.00	10.00	0.00
8,775.85	87.79	269.81	8,470.50	-1.79	-550.84	550.84	10.00	10.00	0.00
Start 4430.66 hold at 8775.85 MD									
8,800.00	87.79	269.81	8,471.43	-1.87	-574.97	574.98	0.00	0.00	0.00
8,900.00	87.79	269.81	8,475.29	-2.19	-674.90	674.90	0.00	0.00	0.00
9,000.00	87.79	269.81	8,479.15	-2.52	-774.82	774.83	0.00	0.00	0.00
9,100.00	87.79	269.81	8,483.01	-2.84	-874.75	874.75	0.00	0.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well M35 F.3H
Company:	OXY	TVD/Reference:	KB @ 3541.50usft
Project:	Eddy County, NM (NAD 27 NME)	MD/Reference:	KB @ 3541.50usft
Site:	Misty 35 Fed 3H	North Reference:	Grid
Well:	M35 F.3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate ("/100usft)	Turn Rate (°/100usft)	
9,200.00	87.79	269.81	8,486.87	-3.17	-974.67	974.68	0.00	0.00	0.00	
9,300.00	87.79	269.81	8,490.73	-3.49	-1,074.60	1,074.60	0.00	0.00	0.00	
9,400.00	87.79	269.81	8,494.59	-3.82	-1,174.52	1,174.53	0.00	0.00	0.00	
9,500.00	87.79	269.81	8,498.45	-4.14	-1,274.45	1,274.45	0.00	0.00	0.00	
9,600.00	87.79	269.81	8,502.31	-4.47	-1,374.37	1,374.38	0.00	0.00	0.00	
9,700.00	87.79	269.81	8,506.17	-4.79	-1,474.30	1,474.30	0.00	0.00	0.00	
9,800.00	87.79	269.81	8,510.03	-5.12	-1,574.22	1,574.23	0.00	0.00	0.00	
9,900.00	87.79	269.81	8,513.89	-5.44	-1,674.15	1,674.16	0.00	0.00	0.00	
10,000.00	87.79	269.81	8,517.75	-5.77	-1,774.07	1,774.08	0.00	0.00	0.00	
10,100.00	87.79	269.81	8,521.61	-6.09	-1,874.00	1,874.01	0.00	0.00	0.00	
10,200.00	87.79	269.81	8,525.47	-6.42	-1,973.92	1,973.93	0.00	0.00	0.00	
10,300.00	87.79	269.81	8,529.32	-6.74	-2,073.85	2,073.86	0.00	0.00	0.00	
10,400.00	87.79	269.81	8,533.18	-7.07	-2,173.77	2,173.78	0.00	0.00	0.00	
10,500.00	87.79	269.81	8,537.04	-7.39	-2,273.70	2,273.71	0.00	0.00	0.00	
10,600.00	87.79	269.81	8,540.90	-7.72	-2,373.62	2,373.63	0.00	0.00	0.00	
10,700.00	87.79	269.81	8,544.76	-8.04	-2,473.55	2,473.56	0.00	0.00	0.00	
10,800.00	87.79	269.81	8,548.62	-8.37	-2,573.47	2,573.49	0.00	0.00	0.00	
10,900.00	87.79	269.81	8,552.48	-8.69	-2,673.40	2,673.41	0.00	0.00	0.00	
11,000.00	87.79	269.81	8,556.34	-9.02	-2,773.32	2,773.34	0.00	0.00	0.00	
11,100.00	87.79	269.81	8,560.20	-9.34	-2,873.25	2,873.26	0.00	0.00	0.00	
11,200.00	87.79	269.81	8,564.06	-9.67	-2,973.17	2,973.19	0.00	0.00	0.00	
11,300.00	87.79	269.81	8,567.92	-9.99	-3,073.10	3,073.11	0.00	0.00	0.00	
11,400.00	87.79	269.81	8,571.78	-10.32	-3,173.02	3,173.04	0.00	0.00	0.00	
11,500.00	87.79	269.81	8,575.64	-10.64	-3,272.95	3,272.96	0.00	0.00	0.00	
11,600.00	87.79	269.81	8,579.50	-10.97	-3,372.87	3,372.89	0.00	0.00	0.00	
11,700.00	87.79	269.81	8,583.36	-11.29	-3,472.80	3,472.81	0.00	0.00	0.00	
11,800.00	87.79	269.81	8,587.22	-11.62	-3,572.72	3,572.74	0.00	0.00	0.00	
11,900.00	87.79	269.81	8,591.08	-11.94	-3,672.65	3,672.67	0.00	0.00	0.00	
12,000.00	87.79	269.81	8,594.94	-12.27	-3,772.57	3,772.59	0.00	0.00	0.00	
12,100.00	87.79	269.81	8,598.79	-12.59	-3,872.50	3,872.52	0.00	0.00	0.00	
12,200.00	87.79	269.81	8,602.65	-12.92	-3,972.42	3,972.44	0.00	0.00	0.00	
12,300.00	87.79	269.81	8,606.51	-13.24	-4,072.35	4,072.37	0.00	0.00	0.00	
12,400.00	87.79	269.81	8,610.37	-13.57	-4,172.27	4,172.29	0.00	0.00	0.00	
12,500.00	87.79	269.81	8,614.23	-13.89	-4,272.20	4,272.22	0.00	0.00	0.00	
12,600.00	87.79	269.81	8,618.09	-14.22	-4,372.12	4,372.14	0.00	0.00	0.00	
12,700.00	87.79	269.81	8,621.95	-14.54	-4,472.05	4,472.07	0.00	0.00	0.00	
12,800.00	87.79	269.81	8,625.81	-14.87	-4,571.97	4,572.00	0.00	0.00	0.00	
12,900.00	87.79	269.81	8,629.67	-15.19	-4,671.90	4,671.92	0.00	0.00	0.00	
13,000.00	87.79	269.81	8,633.53	-15.52	-4,771.82	4,771.85	0.00	0.00	0.00	
13,056.44	87.79	269.81	8,635.71	-15.70	-4,828.22	4,828.24	0.00	0.00	0.00	
Exit Point										
13,100.00	87.79	269.81	8,637.39	-15.84	-4,871.75	4,871.77	0.00	0.00	0.00	
13,206.51	87.79	269.81	8,641.50	-16.19	-4,978.18	4,978.21	0.00	0.00	0.00	
TD at 13206.51										

Planning Report

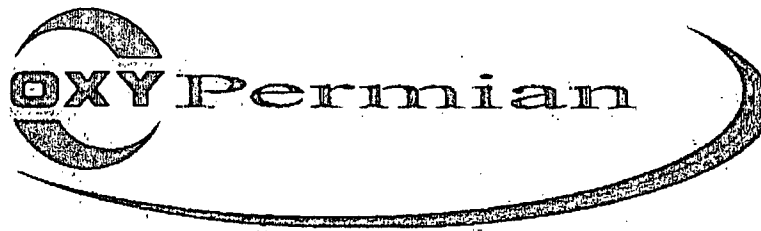
Database:	Midland District	Local Co-ordinate Reference:	Well: M35 F 3H
Company:	OXY	TVD Reference:	KB @ 3541.50usft
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	KB @ 3541.50usft
Site:	Misty 35 Fed 3H	North Reference:	Grid
Well:	M35 F 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
M35 F 3H FTP	0.00	0.00	8,457.50	-1.50	-450.00	617,891.80	622,408.00	32° 41' 52.986 N	103° 56' 7.510 W
- plan misses target center by 0.09usft at 8674.03usft MD (8457.58 TVD, -1.46 N, -449.98 E)									
- Point									
M35 F 3H LTP	0.00	0.00	8,635.70	-15.70	-4,828.30	617,877.60	618,029.70	32° 41' 53.005 N	103° 56' 58.747 W
- plan misses target center by 0.01usft at 13056.52usft MD (8635.71 TVD, -15.70 N, -4828.30 E)									
- Point									
M35 F 3H BHL	0.00	0.00	8,641.50	-16.19	-4,978.18	617,877.11	617,879.82	32° 41' 53.005 N	103° 57' 0.501 W
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/S	+E/W	Comment	
(usft)	(usft)	(usft)	(usft)		
7,897.97	7,897.97	0.00	0.00	Start DLS 10.00 TFO 269.81	
8,404.95	8,341.34	-0.68	-210.04	Entry Point	
8,775.85	8,470.50	-1.79	-550.84	Start 4430.66 hold at 8775.85 MD	
13,056.44	8,635.71	-15.70	-4,828.22	Exit Point	
13,206.51	8,641.50	-16.19	-4,978.18	TD at 13206.51	

AUG 13 2015

RECEIVED

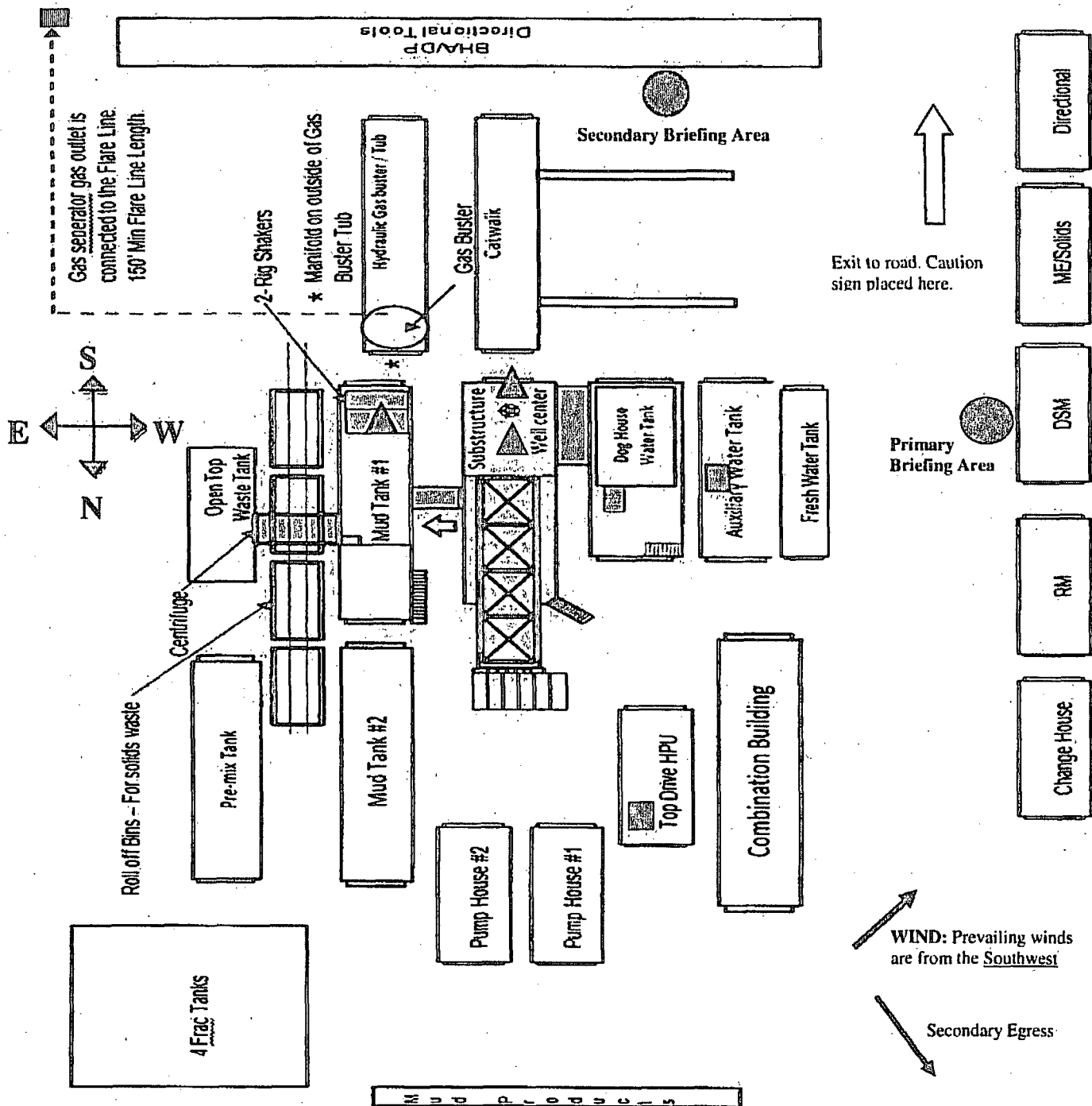


**Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
Misty 35 Federal Com 3H**

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the SOUTHWEST side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.



H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

Briefing Areas. At least two briefing areas will be placed, 90 deg off.



Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.

AUG 13 2015

PECOS DISTRICT
CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	OXY USA WTP LP
LEASE NO.:	NMNM06245
WELL NAME & NO.:	Misty 35 Federal Com 3H
SURFACE HOLE FOOTAGE:	0550' FSL & 0120' FEL
BOTTOM HOLE FOOTAGE	0550' FSL & 0330' FWL
LOCATION:	Section 35, T. 18 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- Spudding well (minimum of 24 hours)
- Setting and/or Cementing of all casing strings (minimum of 4 hours)
- BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

- A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the Yates formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
- Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper**

copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash

Possibility of water and brine flows in the Artesia and Salado Groups.

Possibility of lost circulation in the Artesia Group.

1. The 10-3/4 inch surface casing shall be set at approximately 525 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler) and cemented to the surface. Freshwater mud to be used to setting depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing shall be kept fluid filled while running into hole to meet minimum collapse requirements.

- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing, which shall be set at approximately 3725 feet, is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**

Formation below the 8-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 X 4-1/2 inch production casing is:

☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.

- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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