1. Geologic Formations

TVD of target	10875'	Pilot Hole Depth	Ň/A
MD at TD:	20972'	Deepest Expected fresh water:	1035'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	1035	Brine
Salado	1423	Losses
Castille	3528	
Lamar/Delaware	4887	
Bell Canyon	4914	Water
Cherry Canyon	5827	
Brushy Canyon	7364	Losses, Oil/Gas
Bone Spring	8699	Oil/Gas
1st Bone Spring	9767	Oil/Gas
2nd Bone Spring	10127	Oil/Gas

HOBBS OCD SEP 2 9 2017 RECEIVED

2. Casing Program

Hole Size	Casing In	terval	Csg. Size	Weight	C 1		SF	CE D	Body SF	Joint SF
(in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension
17.5	0	1085	13.375	54.5	J55	BTC	1.125	1.2	1.4	1.4
12.25	0	7500	9.625	43.5	HCL-80	BTC	1.125	1.2	1.4	1.4
12.25	7500	10215	9.625	47	HCL-80	BTC	1.125	1.2	1.4	1.4
8.5	10115	20972	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
							SF V	alues will	meet or Ex	ceed

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h *Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	v
the collapse pressure rating of the casing?	1

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

OXY USA Inc. - Red Tank 30-31 State Com 24H

Is well located within Capitan Reef?	N			
If yes, does production casing cement tie back a minimum of 50' above the Reef?				
Is well within the designated 4 string boundary.				
Is well located in CODA but not in D. 111 D2	N			
Is well located in SOPA but not in R-111-P?	N			
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back				
500' into previous casing?				
I	T NT			
Is well located in R-111-P and SOPA?	N			
If yes, are the first three strings cemented to surface?				
Is 2 nd string set 100' to 600' below the base of salt?				
Is well located in high Cave/Karst?				
If yes, are there two strings cemented to surface?				
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				
If yes, are there three strings cemented to surface?				

3. Cementing Program

Casing	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface	695	14.2	1.68	6.53	6:50	Class C Cement, Accelerator
Production	540	10.2	3.05	15.63	15:07	Pozzolan Cement, Retarder
Casing	239	13.2	1.65	8.45	12:57	Class H Cement, Retarder, Dispersant, Salt
DV/ECP Tool @ 4937' (We request the option to cancel the second stage if cement is circulated to surface during the first stage of cement operations)						
2-154	1206	12.9	1.85	9.86	12:44	Class C Cement, Accelerator, Retarder
2nd Stage	207	14.8	1.33	6.34	6:31	Class C Cement
Production Liner	1756	13.2	1.631	8.37	15:15	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top of Lead (ft)	Bottom of Lead (ft)	Top of Tail (ft)	Bottom of Tail (ft)	% Excess Lead	% Excess Tail
Surface	N/A	N/A	0	1085	N/A	50%
Production Casing	4837	9215	9215	10215	20%	20%
2nd Stage Production Casing	0	4437	4437	4937	75%	75%
Production Liner	N/A	N/A	10115	20972	N/A	15%

OXY USA Inc. - Red Tank 30-31 State Com 24H

Cement Top and Liner Overlap

- Oxy is requesting permission to have minimum fill of cement behind the 5.5" production liner to be 100 ft into previous casing string
 - The reason for this is so that we can come back and develop shallower benches from the same 9.625" mainbore in the future
- Our plan is to use a whipstock for our exit through the mainbore
 - Based on our lateral target, we are planning a whipstock cased/hole exit so that kick-off point will allow for roughly 10deg/100' doglegs needed for the curve
- o Cement will be brought to the top of this liner hanger

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		V	Tested to:
12.25" Hole	13-5/8"		Annula	Annular		70% of working pressure
		5M	Blind Ra	ım	✓	
			Pipe Ra	m		250/5000
			Double Ram		✓	250/5000psi
			Other*			

^{*}Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port

OXY USA Inc. - Red Tank 30-31 State Com 24H

that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

5. Mud Program

D	epth		Waight			
From (ft)	To (ft)	Туре	Weight (ppg)	Viscosity	Water Loss	
0	1085	Water-Based Mud	8.4-8.6	40-60	N/C	
1085	4937	Brine	9.8-10.0	35-45	N/C	
4937	10215	Water-Based Mud	8.8-9.6	38-50	N/C	
10215	20972	Oil-Based Mud	8.8-9.6	35-50	N/C	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

Oxy proposes to drill out the 13.375" surface casing shoe with a saturated brine system from 1085' - 4937', which is the base of the salt system. At this point we will swap fluid systems to a high viscosity mixed metal hydroxide system or a fully saturated brine direct emulsion system. We will drill with this system to the intermediate TD @ 10215'.

What will be used to monitor the loss or gain	PVT/MD Totco/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs
	run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Addi	itional logs planned	Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	4937' - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?		
BH Pressure at deepest TVD	5429 psi		
Abnormal Temperature	No		
BH Temperature at deepest TVD	167°F		

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. 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.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

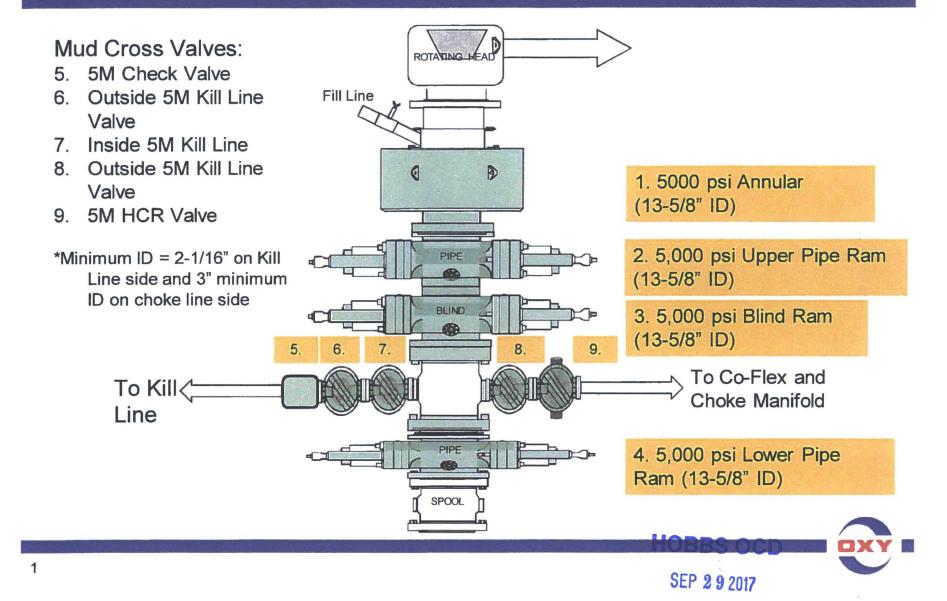
	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	No
 Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig. 	Yes

Total estimated cuttings volume: 2408.7 bbls.

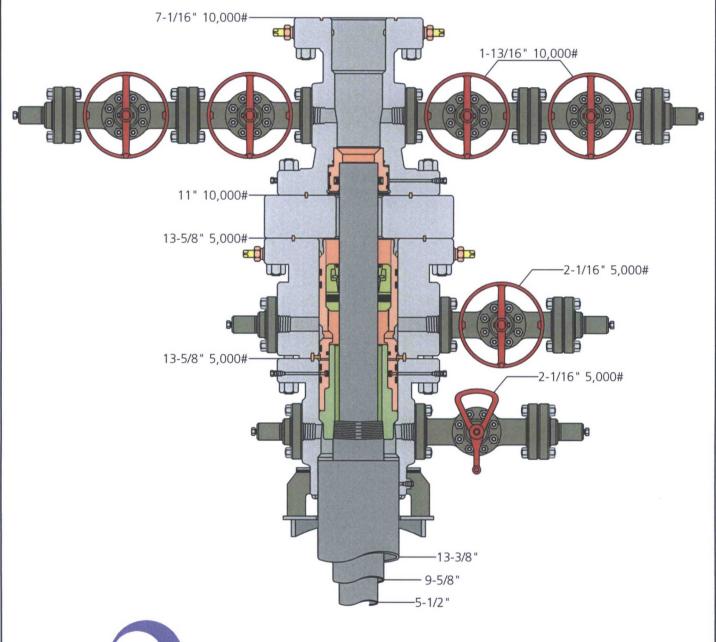
9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Philippe Haffner	Drilling Engineer	713-985-6379	832-767-9047
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

5M BOP Stack



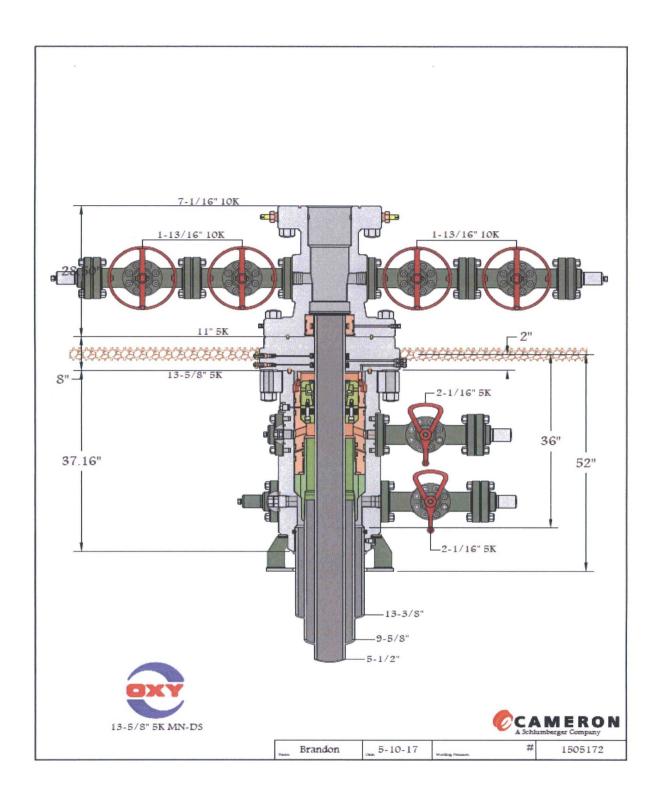
RECEIVED



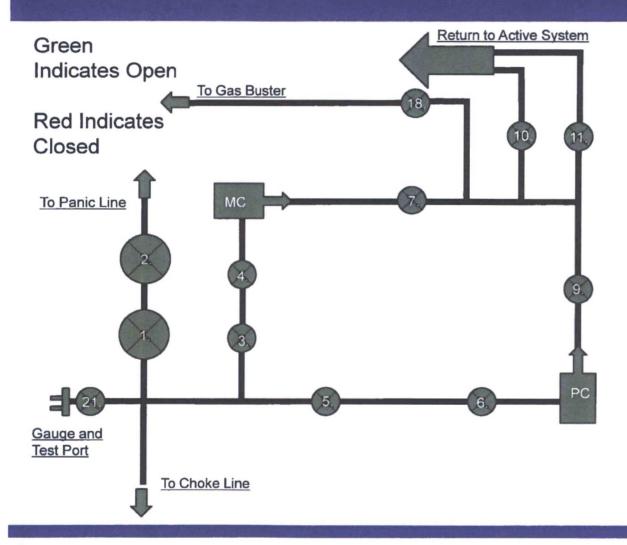




| Jeanette | 7-12-16 | Working Pressure. # J-9786-4



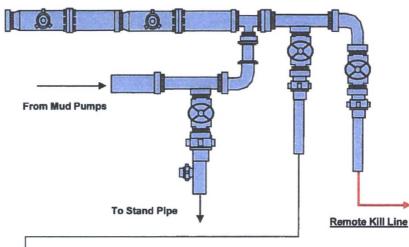
5M Choke Panel

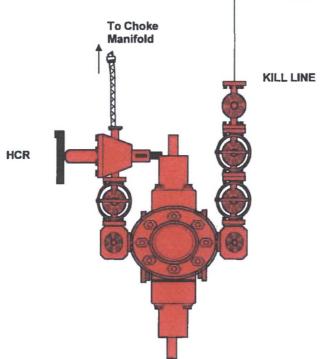


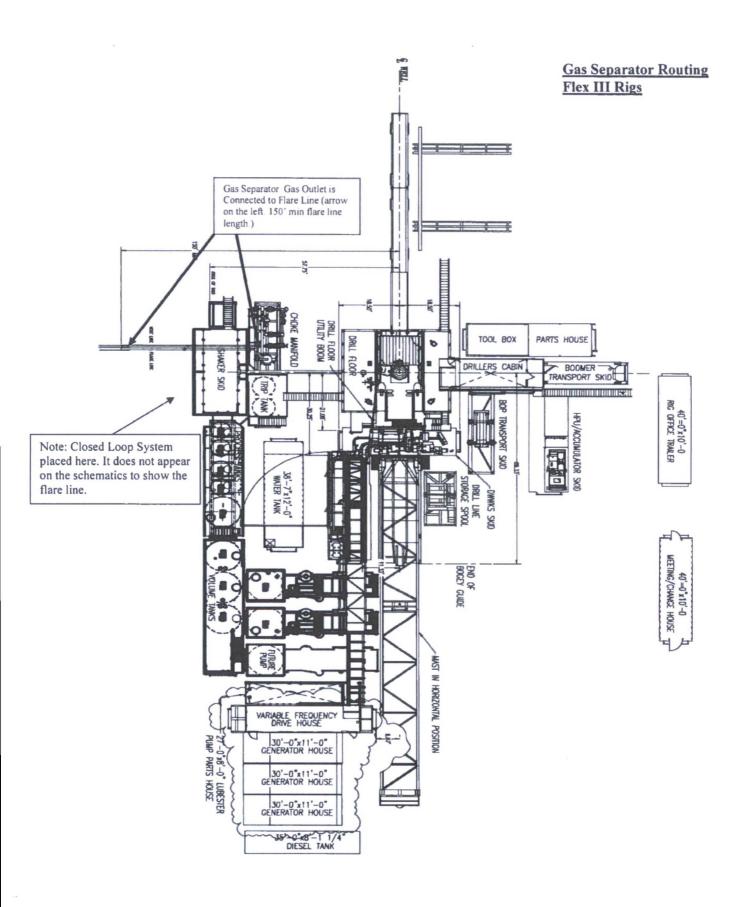
- 1. 4" Choke Manifold Valve
- 2. 4" Choke Manifold Valve
- 3. 3" Choke Manifold Valve
- 4. 3" Choke Manifold Valve
- 5. 3" Choke Manifold Valve
- 6. 3" Choke Manifold Valve
- 7. 3" Choke Manifold Valve
- 8. PC Power Choke
- 9. 3" Choke Manifold Valve
- 10.3" Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. MC Manual Choke
- 18. Choke Manifold Valve
- Vertical Choke Manifold Valve
- *All Valves 3" minimum

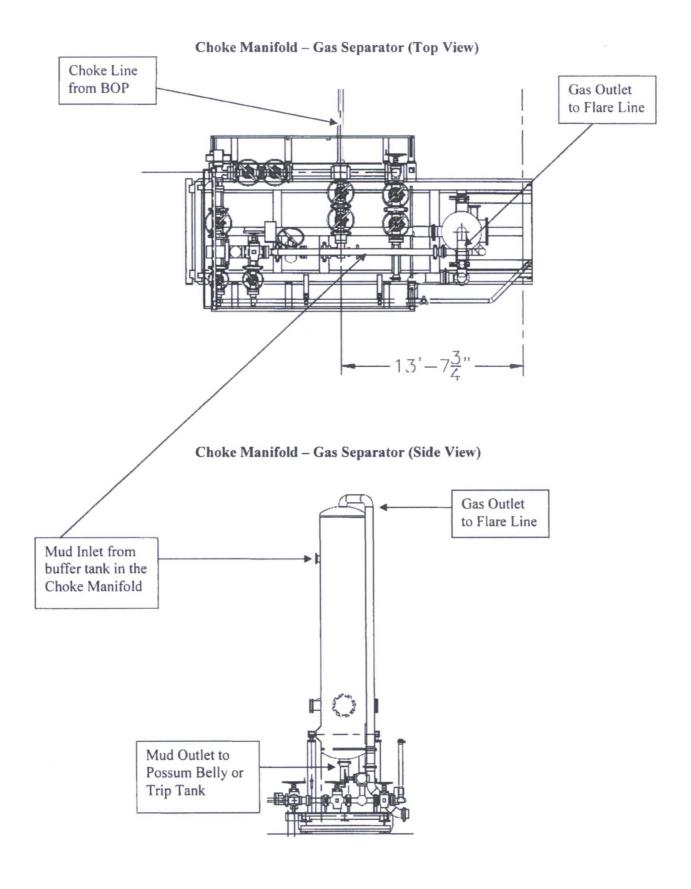


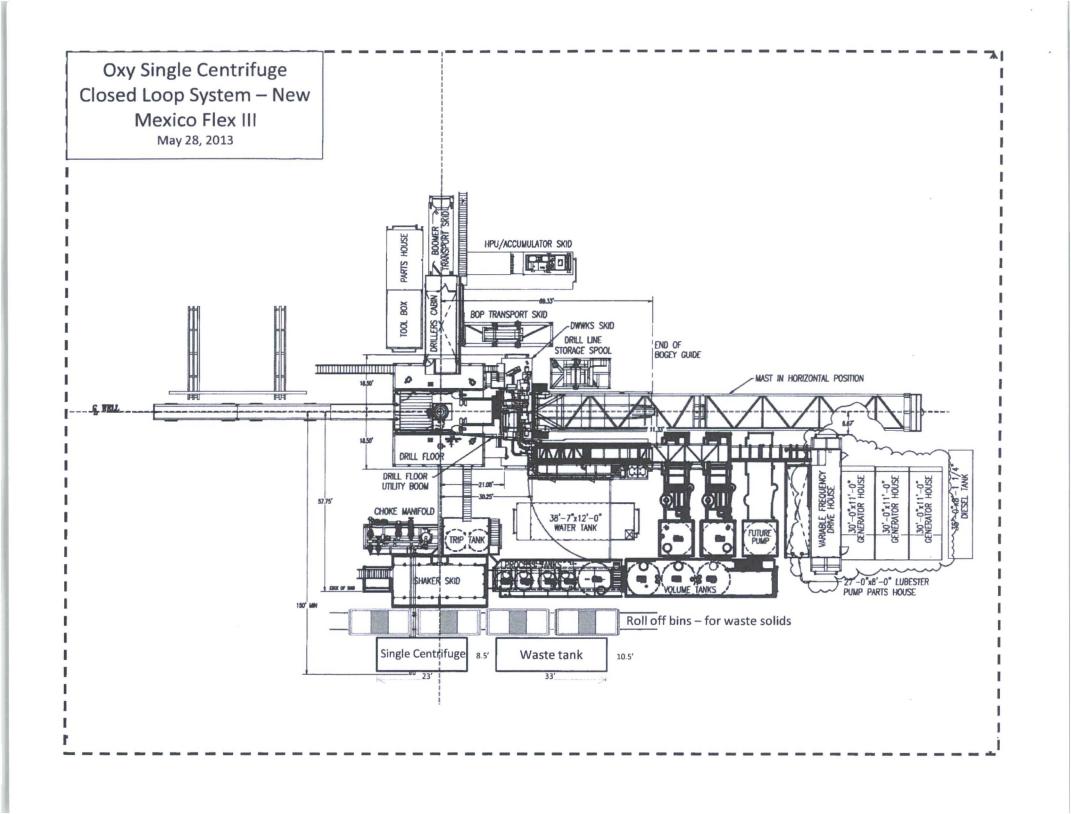
10M REMOTE KILL LINE SCHEMATIC



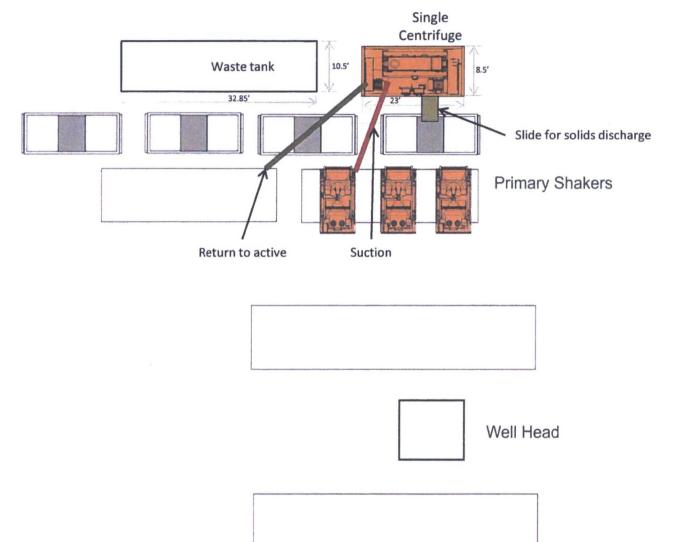








Oxy



Oxy Single Centrifuge Closed Loop System – New Mexico Flex III May 28, 2013

OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

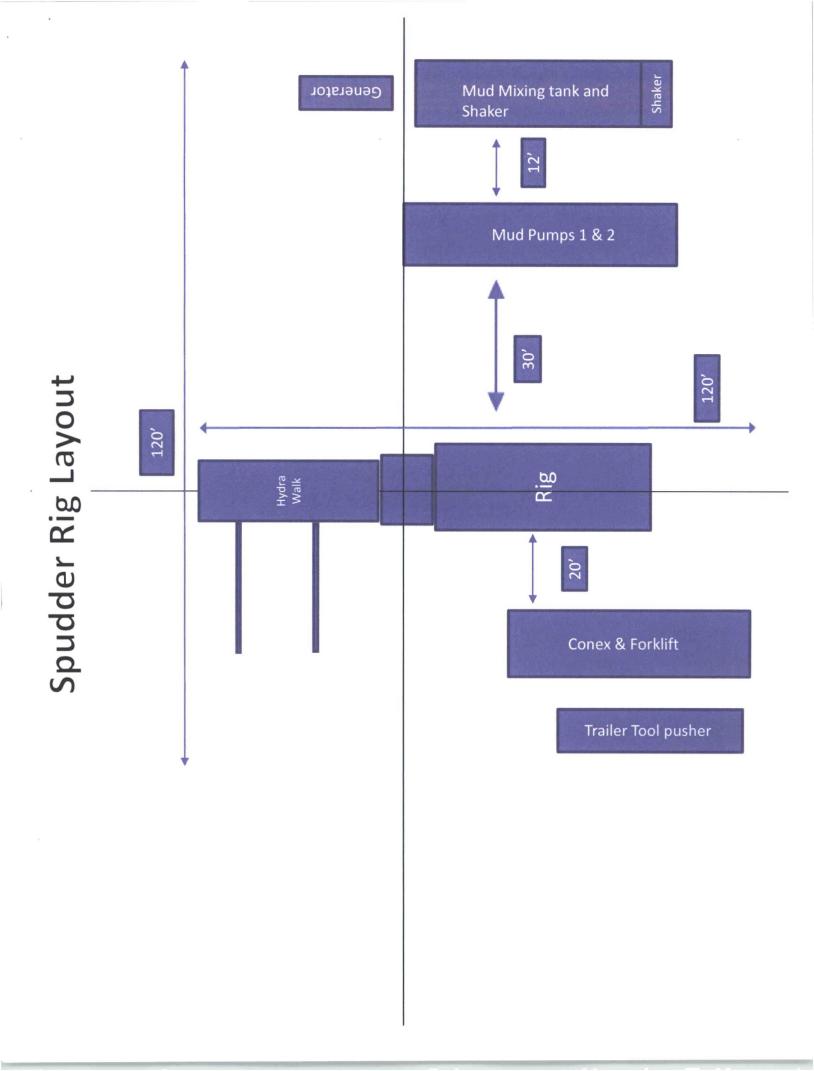
1. SUMMARY OF REQUEST:

Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - **a.** After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.** The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- **6.** Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - **a.** The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - **b.** The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
- 7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- **8.** Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

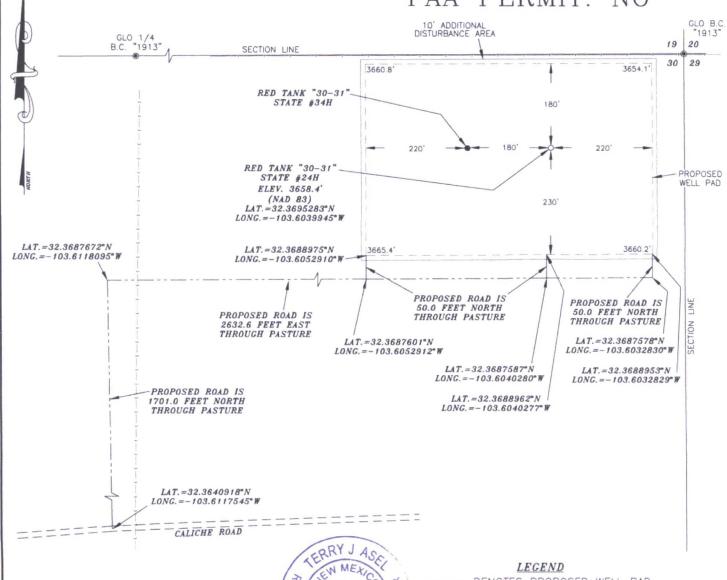


OXY USA INC. RED TANK "30-31" STATE #24H SITE PLAN

SEP 29 2017

RECEIVED





SURV

SURVEYORS CERTIFICATE

TEREN NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND ANSSIONAL TRUE AND CORPECT TO THE SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMIUM STANDARDS FOR

SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

erry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



DENOTES PROPOSED WELL PAD DENOTES PROPOSED ROAD

400' FEET

0 200'

SCALE: 1"=200

OXY USA INC.

RED TANK "30-31" STATE #24H LOCATED AT 200' FNL & 290' FEL IN SECTION 30, TOWNSHIP 22 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 08/08/17	Sheet 1	0	f 1	Sheets
W.O. Number: 170808WL-a	Drawn By:	KA	Rev:	
Date: 08/24/17	170808WL-a		Scale:1	"=200"