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Form 3160-3 (June 2015)	NOV 2 0 2019 UNITED STATES								
UNITED STATE: DEPARTMENT OF THUM BUREAU OF LAND MAN.	STRIC	TURA 1ENT	rtesiao.C.D.	•	5. Lease Serial No. NMNM059386				
APPLICATION FOR PERMIT TO D	RILL	ORI	REENTER		6. If Indian, Allotee or Tribe Name				
	EENTE	R			7. If Unit or CA Age	reement,	Name and No.		
	)ther ingle Zo	one	] Multiple Zone		8. Lease Name and CORRAL CANYO				
					<sup>74H</sup> 320	63,	/		
2. Name of Operator OXY USA INCORPORATED					74H 320 9. API Well No. 30-0	15-	46456		
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 77046	3b. Ph (713)		o. <i>(include area code</i> 16	e)	10. Field and Pool, PIERCE CROSSI	or Explo	ratory		
<ol> <li>Location of Well (Report location clearly and in accordance At surface LOT 1 / 875 FNL / 150 FEL / LAT 32.16417 At proposed prod. zone NENE / 20 FNL / 940 FEL / LAT</li> </ol>	76 / LON	NG -10	3.92994	3	11. Sec., T. R. M. o SEC 1 / T25S / R2				
14. Distance in miles and direction from nearest town or post off 8 miles					12. County or Parish EDDY	h	13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)       20 feet	16. No 240	o of ac	res in lease	17. Spacir 640	ng Unit dedicated to t	his well	•		
<ul> <li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ul>		r i			1/BIA Bond No. in file SB000226				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3143 feet	01/31	/2020	nate date work will	start*	23. Estimated durat 20 days	ion			
			himents						
The following, completed in accordance with the requirements o (as applicable)	of Onsho	ore Oil	and Gas Order No. 1	l, and the H	lydraulic Fracturing r	ule per 4	43 CFR 3162.3-3		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>			Item 20 above).	-	s unless covered by a	n existing	g bond on file (see		
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		ls, the	<ol> <li>Operator certific</li> <li>Such other site sp BLM.</li> </ol>		mation ànd/or plans as	s may be	requested by the		
25. Signature (Electronic Submission)	1		<i>(Printed/Typed)</i> Stewart / Ph: (432	)685-5717		Date 07/10/	2019		
Title Sr. Regulatory Advisor									
Approved by (Signature) (Electronic Submission)			(Printed/Typed) _ayton / Ph: (575)2	234-5959		Date 11/15/	2019		
Title Assistant Field Manager Lands & Minerals		Office CARL				1	· · · · ·		
Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	int holds	legal o	or equitable title to the	hose rights	in the subject lease w	hich wo	uld entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 of the United States any false, fictitious or fraudulent statements						any depa	artment or agency		
			TH CONDIT	IONS					
	wwn	W	IH CONDI		9				

(Continued on page 2)

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Approval Date: 11/15/2019 

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\*(Instructions on page 2) RW 123-19

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

# **Option 1 (Single Stage):**

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

# **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

# Operator has proposed to pump down 9-5/8" X 5 1/2" x 4 1/2" annulus. <u>Operator</u> <u>must run a CBL/ Ecometer from TD of the 5 1/2" x 4 1/2" casing to surface. Submit</u> <u>results to BLM.</u>

# C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. 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 **3000 (3M)** 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.

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# GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. 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.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. 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 are located, this does not include the dog house or stairway area.
- 3. 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.

### A. CASING

- Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

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### B. 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. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
- 3. 5M or higher 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - 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.
  - 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    - a. In a water basin, 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. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

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lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. 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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

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# C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

# D. WASTE MATERIAL AND FLUIDS

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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.

# NMK102019

# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

		1	
Corral Canyon 36-25 Federal Com 1H	190 FNL and 1,525 FWL	Section 1, Township	SLO
Corral Canyon 36-25 Federal Com 2H	190 FNL and 1,560 FWL	25 South, Range 29 East	
Corral Canyon 36-25 Federal Com 3H	200 FNL and 2,170 FEL		
Corral Canyon 36-25 Federal Com 4H	200 FNL and 2,105 FEL		
Corral Canyon 36-25 Federal Com 5H	200 FNL and 2,070 FEL		
Corral Canyon 36-25 Federal Com 6H	810 FNL and 150 FEL		
Corral Canyon 36-25 Federal Com 11H	190 FNL and 1,250 FWL		
Corral Canyon 36-25 Federal Com 12H	190 FNL and 1,285 FWL		
Corral Canyon 36-25 Federal Com 13H	200 FNL and 2,140 FEL		
Corral Canyon 36-25 Federal Com 14H	840 FNL and 150 FEL		
Corral Canyon 36-25 Federal Com 41H	1,020 FNL and 1,130 FWL		
Corral Canyon 36-25 Federal Com 42H	1,020 FNL and 1,165 FWL		
Corral Canyon 36-25 Federal Com 43H	855 FNL and 1,830 FEL		
Corral Canyon 36-25 Federal Com 44H	910 FNL and 150 FEL		
Corral Canyon 36-25 Federal Com 51H	1,020 FNL and 1,405 FWL		
Corral Canyon 36-25 Federal Com 52H	1,020 FNL and 1,440 FWL		
Corral Canyon 36-25 Federal Com 53H	855 FNL and 1,795 FEL		
Corral Canyon 36-25 Federal Com 54H	855 FNL and 1,760 FEL		
Corral Canyon 36-25 Federal Com 71H	200 FNL and 2,220 FWL		
Corral Canyon 36-25 Federal Com 72H	200 FNL and 2,255 FWL		
Corral Canyon 36-25 Federal Com 73H	200 FNL and 2,290 FWL		
Corral Canyon 36-25 Federal Com 74H	875 FNL and 150 FEL		
Corral Canyon 36-25 Federal Com 211H	200 FNL and 2,530 FWL		
Corral Canyon 36-25 Federal Com 212H	200 FNL and 2,565 FWL		
Corral Canyon 36-25 Federal Com 331H	560 FNL and 1,013 FWL	]	
Corral Canyon 36-25 Federal Com 332H	560 FNL and 1,048 FWL		
Corral Canyon 36-25 Federal Com 333H	980 FNL and 740 FEL		
Corral Canyon 36-25 Federal Com 334H	980 FNL and 705 FEL		

# **TABLE OF CONTENTS**

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
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Notification
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Well Pads
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Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation Final Abandonment & Reclamation

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# I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

# **II. PERMIT EXPIRATION**

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

# **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

# IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

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# V. SPECIAL REQUIREMENT(S)

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# **VI. CONSTRUCTION**

### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

### **B.** TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

# C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

# D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

# F. EXCLOSURE FENCING (CELLARS & PITS)

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### **Exclosure Fencing**

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

# G. ON LEASE ACCESS ROADS

# **Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

### Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

### Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

### Ditching

Ditching shall be required on both sides of the road.

### Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

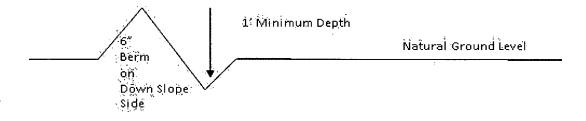
### Drainage

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Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

## **Cross Section of a Typical Lead-off Ditch**



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

### Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

### **Cattle guards**

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

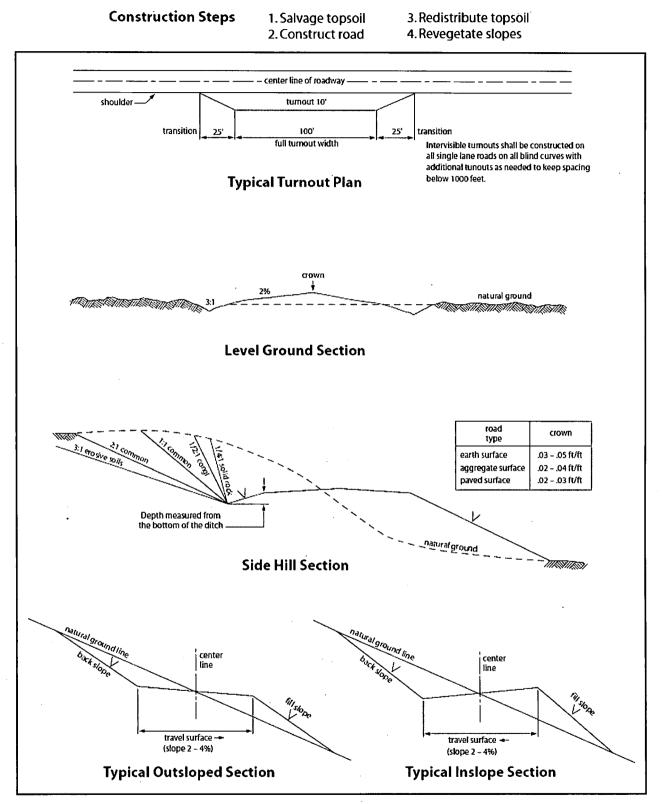
### **Fence Requirement**

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

### **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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# VII. PRODUCTION (POST DRILLING)

# A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

### **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

### **Chemical and Fuel Secondary Containment and Exclosure Screening**

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

#### **Open-Vent Exhaust Stack Exclosures**

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

### **Containment Structures**

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Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

# VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

# IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory

Page 10 of 12

revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Page 11 of 12

(Insert Seed Mixture Here)

Page 12 of 12

Approval Date: 11/15/2019

1



#### U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

# **Operator Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are

Operator Certification Data Report

11/18/2019

NAME: David Stewart		Signed on: 07/08/2019
Title: Sr. Regulatory Ad	visor	
Street Address: 6001	Deauville Blvd	
City: Midland	State: TX	<b>Zip:</b> 79706
Phone: (432)685-5717		
Email address: david_s	stewart@oxy.com	
Field Repres	entative	
Representative Name:	Jim Wilson	
Street Address: 6001	Deauville	
City: Midland	State: TX	<b>Zip:</b> 79706

Phone: (575)631-2442

Email address: jim\_wilson@oxy.com

# **WAFMSS**

### U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

# Application Data Report

11/18/2019

# APD ID: 10400043436

Operator Name: OXY USA INCORPORATED

Well Name: CORRAL CANYON 36-25 FED COM

Well Type: OIL WELL

Submission Date: 07/10/2019

Well Number: 74H Well Work Type: Drill Highlighted data reflects the most recent changes <u>Show Final Text</u>

Section 1 - General		
<b>APD ID:</b> 10400043436	Tie to previous NOS?	Submission Date: 07/10/2019
BLM Office: CARLSBAD	User: David Stewart	Title: Sr. Regulatory Advisor
Federal/Indian APD: FED	Is the first lease penetrated for	or production Federal or Indian? FED
Lease number: NMNM059386	Lease Acres: 240	
Surface access agreement in place?	Allotted? Re	servation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? NO	APD Operator: OXY USA INC	ORPORATED
Operator letter of designation:		

# **Operator Info**

Operator Organization Name: OXY USA INCORPORATED

Operator Address: 5 Greenway Plaza, Suite 110

**Operator PO Box:** 

Operator City: Houston State: TX

Zip: 77046

**Operator Phone:** (713)366-5716

Operator Internet Address:

# Section 2 - Well Information

Well in Master Development Plan? NOMaster Development Plan name:Well in Master SUPO? NOMaster SUPO name:Well in Master Drilling Plan? NOMaster Drilling Plan name:Well Name: CORRAL CANYON 36-25 FED COMWell Number: 74HWell API Number:Field/Pool or Exploratory? Field and PoolField Name: PIERCE<br/>CROSSING BONE SPRING,<br/>EASTPool Name: BONE SPRING

**Operator Name: OXY USA INCORPORATED** Well Name: CORRAL CANYON 36-25 FED COM

Well Number: 74H

Is the proposed well in an area containing other mineral resources? POTASH

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance? Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** Number: 6H CORRAL CANYON 36-25 FED Well Class: HORIZONTAL COM Number of Legs: 1 Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:** Well sub-Type: INFILL

Describe sub-type:

Distance to town: 8 Miles

Distance to nearest well: 35 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

CorralCanyon36 25FdCom74H C102Amd 20191002074947.pdf Well plat: CorralCanyon36 25FdCom74H SitePlanAmd 20191002075001.pdf

Well work start Date: 01/31/2020

# **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

Survey number:

### Vertical Datum: NAVD88

Duration: 20 DAYS

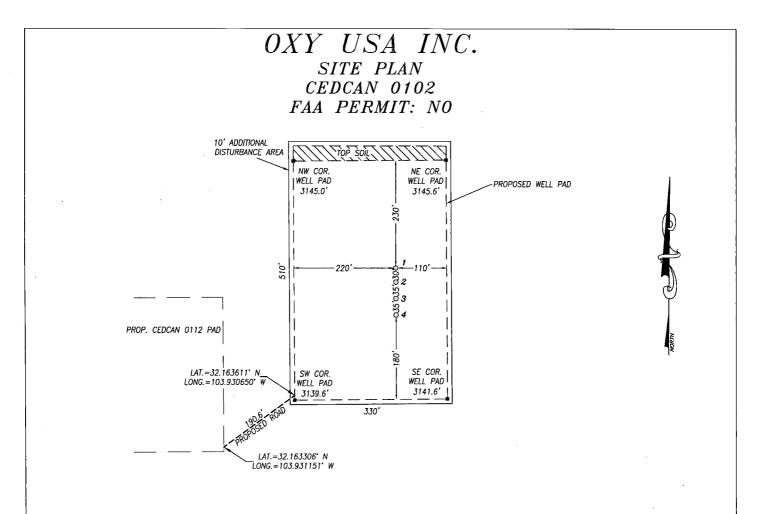
#### **Reference Datum:** Will this well produce Aliquot/Lot/Tract Lease Number EW Indicator NS Indicator -ongitude Elevation ease Type Wellbore EW-Foot Meridian NS-Foot -atitude Section County Range State Twsp Į QP SHL 875 **FNL** FEL NEW S STATE 150 25S 29E 1 32.16417 EDD NEW 314 0 0 103.9299 Y Leg 6 MEXI MEXI 3 1 #1 4 NEW NEW S KOP 50 FSL 940 FEL 24S 29E 36 32.16671 EDD STATE 724 710 \_ SESE 103.9324 Y MEXI MEXI 396 2 4 Leg 1 97 #1 1

Distance to lease line: 20 FT

# Well Name: CORRAL CANYON 36-25 FED COM

# Well Number: 74H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT	Will this well produce
PPP	132	FSL	947	FEL	24S	29E	25		32.18472	-	EDD	NEW	NEW	F	NMNM	-	144	747	
Leg	0							NESE	3	103.9325	Y	MEXI	MEXI		065408	433	70	5	
#1-1										06						2			
PPP	3	FSL	949	FEL	24S	29E	25		32.18108	-	EDD	NEŴ	NEW	F	NMNM	-	131	748	
Leg								SESE	6	103.9325	Y	MEXI	MEXI		059386	433	50	0	
#1-2										04						7			
PPP	100	FSL	940	FEL	24S	29E	36		32.16684	_	EDD	NEW	NEW	s	STATE	-	796	750	
Leg								SESE	9	103.9324	Y	MEXI	MEXI			435	4	0	-
#1-3								•		97						7			
EXIT	100	FNL	940	FEL	24S	29E	25		32.19536	-	EDD	NEW	NEW	F	NMNM	-	183	746	
Leg								NENE	4 、	103.9325	Y	MEXI	MEXI		065408	431	39	1	
#1										13						8			
BHL	20	FNL	940	FEL	24S	29E	25		32,19558	-	EDD	NEW	NEW	F	NMNM	-	184	746	
Leg					ļ			NENE	4	103.9325	Y	MEXI	MEXI		065408	431	19	1	
#1										13						8			



NO.	WELL	FOOTAGE	LAT.	LONG.	ELEV.	1D#
1	CORRAL CANYON 36-25 FED COM #611	810' FNL & 150' FEL	32.164355* N	103.929941• W	3144.8'	IP-SMS-2002
2	CORRAL CANYON 36_25 FED COM #14H	840' FNL & 150' FEL	32.164272° N	103.929940• W	3144.1	IP-SMS-1992
3	CORRAL CANYON 36_25 FED COM #74H	875' FNL & 150' FEL	32.164176° N	103.929940• W	3143.0'	IP-SMS-2017
4	CORRAL CANYON 36_25 FED COM #4411	910' FNL & 150' FEL	32.164080° N	103.929940• W	3143.6'	1P-SMS-2011

#### NOTES:

- 1) LATS & LONGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2) DISTANCES ARE GRID VALUES.

tarrow

CHAD HARCROW N.M.P.S. NO. 17777

3) ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED

CERTIFICATION LENTIFICATION I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MIX KNOWLEDBLC AND BELIEF. NE A MEXICO A SUPVEYOR LICENSED 1777

POFESSIONAL

ESSION

6/12/19

DATE

HARCROW SURVEYING, LLC 2316 W. MAIN ST, ARTESIA, N.M. 88210 PH: (575) 746-2158 c.harcrow@harcrowsurveying.com



200 0		200	2	400	Feet
	Scale:1"=200	,			
02	KY USA	7	INC.		
SURVEY DATE: MAY	11, 2019		SITE	PLAN	
DRAFTING DATE: MAY	Y 20, 2019		PAGE:	1 OF	1
APPROVED BY: CH	DRAWN BY:	CD	FILE: 1	9-695	

# **WAFMSS**

#### U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

11/18/2019

APD ID: 10400043436

Operator Name: OXY USA INCORPORATED

Well Name: CORRAL CANYON 36-25 FED COM

Well Number: 74H

Submission Date: 07/10/2019

Highlighted data reflects the most recent changes Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

# Section 1 - Geologic Formations

Formation			True Vertical	Measured	4		Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	3143	434	434	ANHYDRITE,SHALE,DO LOMITE	USEABLE WATER	N
2	SALADO	2234	909	909	HALITE,ANHYDRITE,SH ALE,DOLOMITE	OTHER : SALT	N
3	CASTILE	1258	1885	1885	ANHYDRITE	OTHER : salt	N
4	LAMAR	-231	3374	3374	LIMESTONE, SILTSTON E, SANDSTONE	OTHER,NATURAL GAS,OIL : BRINE	N
5	BELL CANYON	-247	3390	3390	SILTSTONE,SANDSTO NE	USEABLE WATER,OTHER,NATUR AL GAS,OIL : BRINE	N
6	CHERRY CANYON	-1161	4304	4311	SILTSTONE,SANDSTO NE	OTHER,NATURAL GAS,OIL : BRINE	N
7	BRUSHY CANYON	-2492	5635	5710	LIMESTONE, SILTSTON E, SANDSTONE	OTHER,NATURAL GAS,OIL : BRINE	N
8	BONE SPRING	-4033	7176	7320	LIMESTONE, SILTSTON E, SANDSTONE	NATURAL GAS,OIL	Y

# Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 7499

Equipment: 13-5/8" 5/10M Annular, Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

**Testing Procedure:** OXY will utilize a 5M annular with a 10M BOPE stack. The 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. A multibowl wellhead 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 will be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. BOP

### Well Name: CORRAL CANYON 36-25 FED COM

#### Well Number: 74H

Break Testing Request Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. A separate sundry will be sent prior to spud that reflects the pad based break testing plan. BOP break test under the following conditions: 1. After a full BOP test is conducted 2. When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower. 3. When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper. If the kill line is broken prior to skid, two tests will be performed. 1. Wellhead flange, co-flex hose, kill line connections and upper pipe rams 2. Wellhead flange, HCR valve, check valve, upper pipe rams If the kill line is not broken prior to skid, only one test will be performed. 1. Wellhead flange, co-flex hose, check valve, upper pipe rams

### Choke Diagram Attachment:

CorralCanyon36\_25FdCom74H\_ChkManifold\_20190708133124.pdf

### BOP Diagram Attachment:

CorralCanyon36\_25FdCom74H\_FlexHoseCert\_20190708133156.pdf

CorralCanyon36\_25FdCom74H\_BOPAmd\_20191002095024.pdf

# Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	484	0	484			484	J-55	54.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3424	0	3424			3424	L-80	40	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
	PRODUCTI ON	8.5	5.5	NEW	API	N	0	7692	0	7437			7692	Р- 110			1.12 5	1.2	BUOY	1.4	BUOY	1.4
	PRODUCTI ON	8.5	4.5	NEW	API	N	7692	18418	7437	7461			10726	P- 110		OTHER - DQXTORQ	1.12 5	1.2	BUOY	1.4	BUOY	1.4

### **Casing Attachments**

Well Name: CORRAL CANYON 36-25 FED COM

Well Number: 74H

### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

CorralCanyon36\_25FdCom74H\_CsgCriteria\_20190709144846.pdf

Casing ID: 2 String Type:INTERMEDIATE Inspection Document:

**Spec Document:** 

Tapered String Spec:

### Casing Design Assumptions and Worksheet(s):

CorralCanyon36\_25FdCom74H\_CsgCriteria\_20190709145009.pdf

Casing ID: 3 String Type: PRODUCTION

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

CorralCanyon36\_25FdCom74H\_CsgCriteria\_20190709145051.pdf

CorralCanyon36\_25FdCom74H\_5.5\_20\_P110CY\_TMKUPDQWTORQ\_20190709145452.pdf

CorralCanyon36\_25FdCom74H\_5.5\_20\_P110\_DQX\_20190709145452.pdf

CorralCanyon36\_25FdCom74H\_5.5\_20\_P110HC\_TMKUPSFTORQ\_20190709145453.pdf

Well Name: CORRAL CANYON 36-25 FED COM

### Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

CorralCanyon36\_25FdCom74H\_4.5\_13.5\_P110CY\_TMKUPTORQDQW\_20191002095722.pdf

CorralCanyon36\_25FdCom74H\_CsgCriteria\_20191002095740.pdf

Section	4 - Ce	emen	t									
String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%		Cement type	Additives
SURFACE	Lead		0	484	517	1.33	14.8	688	100	CIC		Accelerator

	Lead	(	)	2924	765	1.73	12.9	1323	50	Pozzolan/Cl C	Retarder
INTERMEDIATE	Tail	. 29	24	3424	155	1.33	14.8	206	20	CIC	Accelerator
PRODUCTION	Lead	58	85	1841 8	2194	1.38	13.2	3028	5	СІН	Retarder, Dispersant, Salt
PRODUCTION	Tail	(	כ	5885	854	1.87	12.9	1597	25	CI C	Accelerator
PRODUCTION	Lead	58	85	1841 8	2194	1.38 ,	13.2	3028	5	СІН	Retarder, Dispersant, Salt
PRODUCTION	Tail		)	5885	854	1.87	12.9	1597	25	CIC	Accelerator

4

Well Name: CORRAL CANYON 36-25 FED COM

Well Number: 74H

# Section 5 - Circulating Medium

Mud System Type: Closed

. :

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements. 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.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

# Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
484	3424	OTHER : Saturated Brine Based Mud <sup>-</sup>	9.8	10		-					
3424	1841 8	OTHER : Water- Based and/or Oil-Based Mud	8	9.6							
0	484	WATER-BASED MUD	8.6	8.8					-		

Well Name: CORRAL CANYON 36-25 FED COM

Well Number: 74H

# Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole). Mud Log from intermediate shoe to TD.

List of open and cased hole logs run in the well:

GR,MUDLOG

### Coring operation description for the well:

No coring is planned at this time.

### Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3744

Anticipated Surface Pressure: 2094

Anticipated Bottom Hole Temperature(F): 140

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

**Contingency Plans geoharzards description:** 

Contingency Plans geohazards attachment:

### Hydrogen Sulfide drilling operations plan required? YES

### Hydrogen sulfide drilling operations plan:

CorralCanyon36\_25FdCom74H\_H2S1\_20190708133505.pdf CorralCanyon36\_25FdCom74H\_H2S2\_20190708133506.pdf CorralCanyon36\_25FdCom74H\_H2S3ECL\_20190708133506.pdf

# Section 8 - Other Information

### Proposed horizontal/directional/multi-lateral plan submission:

CorralCanyon36\_25FdCom74H\_DirectPlanAmd\_20191002101211.pdf CorralCanyon36\_25FdCom74H\_DirectPlotAmd\_20191002101212.pdf

### Other proposed operations facets description:

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.

OXY respectfully requests a variance to cement the 9-5/8" and/or 7-5/8" intermediate casing string offline, see attached for additional information.

OXY requests to pump a two stage production casing cement job with the first stage being pumped conventionally with the calculated TOC @ the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to Surface.

Well Name: CORRAL CANYON 36-25 FED COM

Oxy requests the option to run production casing with DQX, SF TORQ and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request - As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.

2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Well will be drilled with a walking/skidding operation. Plan to drill the multiple well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.

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.

### Other proposed operations facets attachment:

CorralCanyon36\_25FdCom74H\_GasCapPlan\_\_20190708133559.pdf CorralCanyon36\_25FdCom74H\_SpudRigData\_20190708133620.pdf CorralCanyon36\_25FdCom74H\_DrillPlanAmd\_20191002101248.pdf

#### Other Variance attachment:

CorralCanyon36\_25FdCom74H\_OfflineCmtgDetail\_20190708133636.pdf

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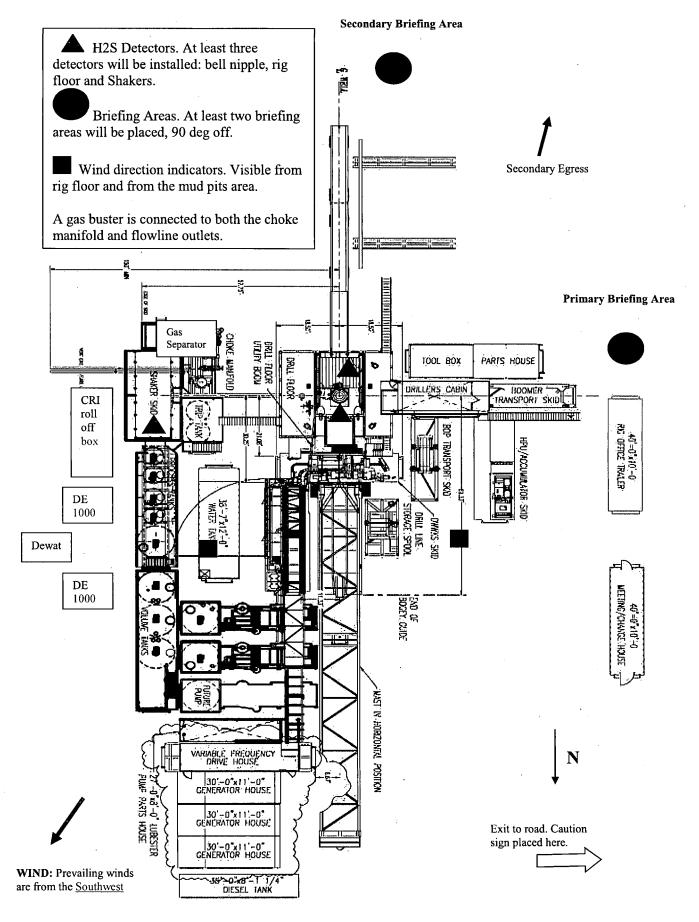


# Permian Drilling Hydrogen Sulfide Drilling Operations Plan - Corral Canyon 36-25 Federal Com 74H

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 Southeast 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.



- 2 -



# Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

### <u>Scope</u>

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

### **Objective**

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

# **Discussion**

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .				
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.				
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of thi well.				
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.				
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.				
Briefing:	This section deals with the briefing of all people involved in the drilling operation.				
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.				
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.				
General information:	A general information section has been included to supply support information.				

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### Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site briefing

#### **Emergency Equipment Requirements**

#### Well control equipment

1.

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as BLM Onshore Order #2.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

#### 2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
  - Rig floor and trailers.
  - Vehicle.

#### 3. <u>Hydrogen sulfide sensors and alarms</u>

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

#### 4. Visual Warning Systems

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

#### *Wind sock – wind streamers:*

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

#### Condition flags

A. One each condition flag to be displayed to denote conditions.

green – normal conditions yellow – potential danger red – danger, H2S present

B. Condition flag shall be posted at each location sign entrance.

#### 5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

#### 6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

#### 7. Well Testing

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

- 9. Designated area
  - A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
  - B. There will be a designated smoking area.
  - C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

#### **Emergency procedures**

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
  - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
  - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
  - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
  - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
  - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
  - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
  - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

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- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.

5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

#### C. Responsibility:

1. Designated personnel.

- a. Shall be responsible for the total implementation of this plan.
- b. Shall be in complete command during any emergency.
- c. Shall designate a back-up.

All personnel:

 On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
 Check status of personnel (buddy system).

3. Secure breathing equipment.

4. Await orders from supervisor.

Drill site manager:

1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.

2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).

3. Determine H2S concentrations.

4. Assess situation and take control measures.

1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.

2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).

3. Determine H2S concentration.

4. Assess situation and take control measures.

Driller:

Tool pusher:

1. Don escape unit, shut down pumps, continue

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rotating DP.

- 2. Check monitor for point of release.
- 3. Report to nearest upwind designated safe briefing / muster area.
- 4. Check status of personnel (in an attempt to rescue, use the buddy system).
- 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.
- 1. Will remain in briefing / muster area until instructed by supervisor.
- 1. Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)
- Safety personnel:
- Mask up and check status of all personnel and secure operations as instructed by drill site manager.

#### Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

1.

#### **Open-hole logging**

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

#### **Running casing or plugging**

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Derrick man Floor man #1 Floor man #2

Mud engineer:

#### **Ignition procedures**

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

#### Instructions for igniting the well

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

**<u>Remember</u>**: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **<u>Do not assume the area is safe after the well is ignited.</u>** 

## Status check list

	Status eneck list
Note:	All items on this list must be completed before drilling to production casing point.
1.	H2S sign at location entrance.
2.	Two (2) wind socks located as required.
3.	Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
4.	Air packs inspected and ready for use.
5.	Cascade system and hose line hook-up as needed.
6.	Cascade system for refilling air bottles as needed.
7.	Condition flag on location and ready for use.
8.	H2S detection system hooked up and tested.
9.	H2S alarm system hooked up and tested.
10.	Hand operated H2S detector with tubes on location.
11.	1 – 100' length of nylon rope on location.
12.	All rig crew and supervisors trained as required.
13.	All outside service contractors advised of potential H2S hazard on well.
14.	No smoking sign posted and a designated smoking area identified.
15.	Calibration of all H2S equipment shall be noted on the IADC report.

Checked by:\_\_\_\_\_ Date:\_\_\_\_\_

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#### Procedural check list during H2S events

#### Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

#### Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
  - A. Emergency telephone list.
  - B. Hand operated H2S detectors and tubes.

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#### **General evacuation plan**

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

#### **Emergency actions**

## <u>Well blowout – if emergency</u>

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

#### Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

#### Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity -1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

#### Table i Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	. 10%
Methane	Ch4	0.55	90,000 ppm	Combustibl	e above 5% in air

1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.

2) hazardous limit – concentration that will cause death with short-term exposure.

3) lethal concentration – concentration that will cause death with short-term exposure.

#### Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		<b>Concentration</b>	Physical effects
Percent (%)	<u>Ppm</u>	Grains	
		100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

\*at 15.00 psia and 60'f.

#### <u>Use of self-contained breathing equipment (SCBA)</u>

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
  - a. A program for maintenance and care of SCBA's shall include the following:
    - 1. Inspection for defects, including leak checks.
    - 2. Cleaning and disinfecting.
    - 3. Repair.
    - 4. Storage.
  - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
    - 1. Fully charged cylinders.
    - 2. Regulator and warning device operation.
    - 3. Condition of face piece and connections.
    - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
  - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
  - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

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- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

#### Rescue First aid for H2S poisoning

Do not panic!

Remain calm – think!

- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

#### Revised CM 6/27/2012

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Location	Office Phone	Cell/Mobile Phone
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1 1 0		
Houston	(713) 366-5556	(713) 259-1417
Houston	(713) 215-7403	(832) 528-3547
Houston	(713) 366-5212	(806) 239-8774
Houston	(713) 350-4602	(713) 303-4932
Houston	(713) 215-7987	(713) 517-5544
Houston	(713) 366-5436	(281) 236-6153
Houston	713-336-5753	281-520-5216
Carlsbad	(432) 686-1434	(337) 208-0911
Carlsbad	(432) 686-1435	(661) 369-5328
Carlsbad.		(559) 310-8572
Carlsbad		(337) 499-0756
nt Location	Office	Cell Phone
Houston	(713) 497-2494	(832) 537-9885
Houston	(713) 350-4615	(949) 413-3127
Midland	(432) 699-4208	(575) 499-4919
Midland	(432) 699-8366	(432) 803-4116
Midland		(832) 966-1879
Houston	(713) 366-5716	(832) 454-8137
Houston	+1 (713) 366-5106	+1 (713) 504-8577
Midland	432-685-5614	
Midland	432-685-5771	(432) 254-2336
Midland		(575) 390-2828
Houston	+713 (350) 4906	(281) 917-8571
Houston	(713) 366-5611	(832) 867-5336
Midland	432-685-5758	<u> </u>
Location	Office	
Midland	432-685-5830	
Midland	432-685-5812	
Midland	(432) 685-5716	(432) 631-6341
Location	Office	······································
	HoustonHoustonHoustonHoustonHoustonHoustonCarlsbadCarlsbadCarlsbadCarlsbadCarlsbadCarlsbadCarlsbadMidlandHoustonMidland <t< td=""><td>Houston       (713) 215-7403         Houston       (713) 366-5212         Houston       (713) 350-4602         Houston       (713) 215-7987         Houston       (713) 215-7987         Houston       (713) 366-5436         Houston       (713) 366-5436         Houston       (713) 366-5436         Houston       (713) 366-5436         Location       (432) 686-1435         Carlsbad       (432) 686-1435         Carlsbad       (432) 686-1435         Carlsbad       (432) 686-1435         Carlsbad       Office         Houston       (713) 497-2494         Houston       (713) 350-4615         Midland       (432) 699-4208         Midland       (432) 699-8366         Midland       (432) 699-8366         Midland       (432-685-5716         Houston       (713) 366-5106         Midland       432-685-5771         Midland       432-685-5771         Midland       432-685-5758         Location       Office         Midland       432-685-5758         Location       Office         Midland       432-685-5812         Midland       432</td></t<>	Houston       (713) 215-7403         Houston       (713) 366-5212         Houston       (713) 350-4602         Houston       (713) 215-7987         Houston       (713) 215-7987         Houston       (713) 366-5436         Houston       (713) 366-5436         Houston       (713) 366-5436         Houston       (713) 366-5436         Location       (432) 686-1435         Carlsbad       (432) 686-1435         Carlsbad       (432) 686-1435         Carlsbad       (432) 686-1435         Carlsbad       Office         Houston       (713) 497-2494         Houston       (713) 350-4615         Midland       (432) 699-4208         Midland       (432) 699-8366         Midland       (432) 699-8366         Midland       (432-685-5716         Houston       (713) 366-5106         Midland       432-685-5771         Midland       432-685-5771         Midland       432-685-5758         Location       Office         Midland       432-685-5758         Location       Office         Midland       432-685-5812         Midland       432

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Person	Location	Office Phone	Cell/Mobile Phone
Moreno, Leslie (contract)	Hobbs	575-397-8247	
Sehon, Angela (contractor)	Levelland	806-894-8347	
Vasquez, Claudia (contractor)	North Cowden	432-385-3120	
XstremeMD	Location	Office	
Medical Case Management	Orla, TX	(337) 205-9314	
Axiom Medical Consulting	Location	Office	
Medical Case Management		(877) 502-9466	
Regulatory Agencies			
Bureau of Land Management	Carlsbad, NM	(505) 887-6544	
Bureau of Land Management	Hobbs, NM	(505) 393-3612	
Bureau of Land Management	Roswell, NM	(505) 393-3612	
Bureau of Land Management	Santa Fe, NM	(505) 988-6030	
DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulaion Commission		(505) 827-3549	-
DOT Juisdictional Pipelines-Incident Reporting Texas	Santa Fe, NM	(505) 490-2375	
Railroad Commission	Austin, TX	(512) 463-6788	
EPA Hot Line	Dallas, Texas	(214) 665-6444	
Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681	· ·
National Response Center	Washington, D. C.	(800) 424-8802	
National Infrastructure Coordinator Center		(202) 282-9201	
New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494	
New Mexico Oil Conservation Division	Artesia, NM	(505) 748-1283	After Hours (505) 370 7545
New Mexico Oil Conservation Division	Hobbs, NM	(505) 393-6161	
New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068	
New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 476-3470	
New Mexico Environmental Department	Hobbs, NM	(505) 827-9329	
NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222	
Railroad Commission of TX	District 1 San Antonio	1	
Railroad Commission of TX	District 7C San Angelo		
Railroad Commission of TX	District 8, 8A Midland	·····	
Texas Emergency Response Center	Austin, TX	(512) 463-7727	
TCEQ Air	Region 2 Lubbock, TX		
TCEQ Water/Waste/Air	Region 3 Abilene, TX		
TCEQ Water/Waste/Air	Region 7 Midland, TX		
TCEQ Water/Waste/Air	Region 9 San Antonio	1	
TCEQ Water/Waste/Air	Region 8 San Angelo	(325) 655-9479	
Medical Facilities	te de la companya de La companya de la comp		
Abernathy Medical Clinic	Abernathy, TX	(806) 298-2524	
Alliance Hospital	Odessa, TX	(432) 550-1000	
Artesia General Hospital	Artesia, NM	(505) 748-3333	
Brownfield Regional Medical Center	Brownfield, TX	(806) 637-3551	-

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Person	Location	Office Phone	Cell/Mobile Phone
Cogdell Memorial Hospital	Snyder, TX	(325) 573-6374	
Covenant Hospital Levelland	Levelland, TX	(806) 894-4963	
Covenant Medical Center	Lubbock, TX	(806) 725-1011	
Covenant Medical Center Lakeside	Lubbock, TX	(806) 725-6000	
Covenant Family Health	Synder, TX	(325) 573-1300	
Crockett County Hospital	Ozona, TX	(325) 392-2671	
Guadalupe Medical Center	Carlsbad, NM	(505) 887-6633	
Lea Regional Hospital	Hobbs, NM	(505) 492-5000	
McCamey Hospital	McCamey, TX	(432) 652-8626	-
Medical Arts Hospital	Lamesa, TX	(806) 872-2183	
Medical Center Hospital	Odessa, TX	(432) 640-4000	
Medi Center Hospital	San Angelo, TX	(325) 653-6741	
Memorial Hospital	Ft. Stockton	(432) 336-2241	
Memorial Hospital	Seminole, TX	(432) 758-5811	
Midland Memorial Hospital	Midland, TX	(432) 685-1111	
Nor-Lea General Hospital	Lovington, NM	(505) 396-6611	
Odessa Regional Hospital	Odessa, TX	(432) 334-8200	
Permian General Hospital	Andrews, TX	(432) 523-2200	
Reagan County Hospital	Big Lake, TX	(325) 884-2561	
Reeves County Hospital	Pecos, TX	(432) 447-3551	
Shannon Medical Center	San Angelo, TX	(325) 653-6741	
Union County General Hospital	Clayton, NM	(505) 374-2585	
University Medical Center	Lubbock, TX	(806) 725-8200	
Val Verde Regional Medical Center	Del Rio, TX	(830) 775-8566	
Ward Memorial Hospital	Monahans, TX	(432) 943-2511	
Yoakum County Hospital	Denver City, TX	(806) 592-5484	
Law Enforcement - Sheriff			
Andrews Cty Sheriff's Department	Andrews County(Andr	(432) 523-5545	
Crane Cty Sheriff's Department	Crane, County (Crane)	(432) 558-3571	
Crockett Cty Sheriff's Department	Crockett County (Ozor	(325) 392-2661	
Dawson Cty Sheriff's Department	Dawson County (Lame	(806) 872-7560	
Ector Cty Sheriff's Department	Ector County (Odessa)	(432) 335-3050	
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(505) 746-2704	
Eddy Cty Sheriff's Department	Eddy County (Carlsbac	(505) 887-7551	
Gaines Cty Sheriff's Department	Gaines County (Semin	(432) 758-9871	
Hockley Cty Sheriff's Department	Hockley County(Level	(806) 894-3126	
Kent Cty (Jayton City Sheriff's Dept.)	Kent County(Jayton)	(806) 237-3801	
Lea Cty Sheriff's Department	Lea County (Eunice)	(505) 384-2020	
Lea Cty Sheriff's Department	Lea County (Hobbs)	(505) 393-2515	<u>-</u>
Lea Cty Sheriff's Department	Lea County (Lovingtor	(505) 396-3611	
Lubbock Cty Sheriff's Department	Lubbock Cty (Abernati	(806) 296-2724	
Midland Cty Sheriff's Department	Midland County (Midl	(432) 688-1277	

Person	Location	Office Phone	Cell/Mobile Phone
Pecos Cty Sheriff's Department	Pecos County (Iraan)	(432) 639-2251	
Reeves Cty Sheriff's Department	Reeves County (Pecos)	(432) 445-4901	
Scurry Cty Sheriff's Department	Scurry County (Snyder	(325) 573-3551	
Terry Cty Sheriff's Department	Terry County (Brownfi	(806) 637-2212	
Union Cty Sheriff's Department	Union County (Claytor	(505) 374-2583	
Upton Cty Sheriff's Department	Upton County (Rankin	(432) 693-2422	
Ward Cty Sheriff's Department	Ward County (Monaha	(432) 943-3254	
Yoakum City Sheriff's Department	Yoakum Co. (Denever	(806) 456-2377	
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Law Enforcement - Police	÷.		
Abernathy City Police	Abernathy, TX	(806) 298-2545	
Andrews City Police	Andrews, TX	(432) 523-5675	
Artesia City Police	Artesia, NM	(505) 746-2704	
Brownfield City Police	Brownfield, TX	(806) 637-2544	
Carlsbad City Police	Carlsbad, NM	(505) 885-2111	
Clayton City Police	Clayton, NM	(505) 374-2504	
Denver City Police	Denver City, TX	(806) 592-3516	
Eunice City Police	Eunice, NM	(505) 394-2112	
Hobbs City Police	Hobbs, NM	393-2677	
Jal City Police	Jal, NM	(505) 395-2501	
Jayton City Police	Jayton, TX	(806) 237-3801	
Lamesa City Police	Lamesa, TX	(806) 872-2121	
Levelland City Police	Levelland, TX	(806) 894-6164	
Lovington City Police	Lovington, NM	(505) 396-2811	
Midland City Police	Midland, TX	(432) 685-7113	
Monahans City Police	Monahans, TX	(432) 943-3254	
Odessa City Police	Odessa, TX	(432) 335-3378	
Seminole City Police	Seminole, TX	(432) 758-9871	
Snyder City Police	Snyder, TX	(325) 573-2611	
Sundown City Police	Sundown, TX	(806) 229-8241	
Law Enforcement - FBI			
FBI	Alburqueque, NM	(505) 224-2000	
FBI	Midland, TX	(432) 570-0255	
Law Enforcement - DPS			
NM State Police	Artesia, NM	(505) 746-2704	
NM State Police	Carlsbad, NM	(505) 885-3137	
NM State Police	Eunice, NM	(505) 392-5588	
NM State Police	Hobbs, NM	(505) 392-5588	
NM State Police	Clayton, NM	(505) 374-2473; 911	
TX Dept of Public Safety	Andrews, TX	(432) 524-1443	
TX Dept of Public Safety	Big Lake, TX	(325) 884-2301	

Person	Location	Office Phone	Cell/Mobile Phone
TX Dept of Public Safety	Brownfield, TX	(806) 637-2312	
TX Dept of Public Safety	Iraan, TX	(432) 639-3232	
TX Dept of Public Safety	Lamesa, TX	(806) 872-8675	
X Dept of Public Safety	Levelland, TX	(806) 894-4385	
X Dept of Public Safety	Lubbock, TX	(806) 747-4491	
X Dept of Public Safety	Midland, TX	(432) 697-2211	
X Dept of Public Safety	Monahans, TX	(432) 943-5857	
X Dept of Public Safety	Odessa, TX	(432) 332-6100	
X Dept of Public Safety	Ozona, TX	(325) 392-2621	
X Dept of Public Safety	Pecos, TX	(432) 447-3533	
X Dept of Public Safety	Seminole, TX	(432) 758-4041	
X Dept of Public Safety	Snyder, TX	(325) 573-0113	
X Dept of Public Safety	Terry County TX	(806) 637-8913	
X Dept of Public Safety	Yoakum County TX	(806) 456-2377	
Firefighting & Rescue		· · ·	
bernathy	Abernathy, TX	(806) 298-2022	
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113	
Indrews	Andrews, TX	523-3111	
rtesia	Artesia, NM	(505) 746-5051	
ig Lake	Big Lake, TX	(325) 884-3650	
Brownfield-Administrative & other calls	Brownfield, TX	(816) 637-4547	
rownfield emergency only	Brownfield, TX	-911	
arlsbad	Carlsbad, NM	(505) 885-3125	
layton	Clayton, NM	(505) 374-2435	
otton Center	Cotton Center, TX	(806) 879-2157	
Frane	Crane, TX	(432) 558-2361	
Del Rio	Del Rio, TX	(830) 774-8650	
Denver City	Denver City, TX	(806) 592-3516	
Idorado	Eldorado, TX	(325) 853-2691	
Cunice	Eunice, NM	(505) 394-2111	
Garden City	Garden City, TX	(432) 354-2404	
Goldsmith	Goldsmith, TX	(432) 827-3445	
ale Center	Hale Center, TX	(806) 839-2411	
Ialfway	Halfway, TX	·	
lobbs	Hobbs, NM	(505) 397-9308	
al	Jal, NM	(505) 395-2221	
ayton	Jayton, TX	(806) 237-3801	
lermit	Kermit, TX	(432) 586-3468	· ·
amesa	Lamesa, TX	(806) 872-4352	
evelland	Levelland, TX	(806) 894-3154	
ovington	Lovington, NM	(505) 396-2359	
Maljamar	Maljamar, NM	(505) 676-4100	

Person	Location	Office Phone	Cell/Mobile Phone
AcCamey	McCamey, TX		
Aidland	Midland, TX	(432) 652-8232 (432) 685-7346	
Aonahans	Monahans, TX	(432) 943-4343	
Vara Visa	Nara Visa, NM	(505) 461-3300	
Notrees	Notress, TX	(432) 827-3445	
Ddessa	Odessa, TX	(432) 335-4659	
Dzona	Ozona, TX	(325) 392-2626	
Pecos	Pecos, TX	(432) 445-2421	
Petersburg	Petersburg, TX	(806) 667-3461	
Plains	Plains, TX		
Plainview	Plainview, TX	(806) 456-8067 (806) 296-1170	· · · · · · · · · · · · · · · · · · ·
Aankin	Rankin, TX		
San Angelo	San Angelo, TX	(432) 693-2252 (325) 657-4355	
Sanderson	San Angelo, 1X Sanderson, TX	(432) 345-2525	
Seminole	Seminole, TX	758-9871	
	Smyer, TX	(806) 234-3861	•
Smyer			
Snyder	Snyder, TX	(325) 573-6215	
Sundown	Sundown, TX	<b>911</b> 911	
	Tucumcari, NM		· · · · ·
West Odessa	Odessa, TX	(432) 381-3033	
Ambulance			
Abernathy Ambulance	Abernathy, TX	(806) 298-2241	
Amistad/Rosebud	Amistad/Rosebud, NM		
Andrews Ambulance	Andrews, TX	(432) 523-5675	<u></u>
Artesia Ambulance	Artesia, NM	(505) 746-2701	
Big Lake Ambulance	Big Lake, TX	(325) 884-2423	
Big Spring Ambulance	Big Spring, TX	(432) 264-2550	· · ·
Brownfield Ambulance	Brownfield, TX	(806) 637-2511	
Carlsbad Ambulance	Carlsbad, NM	(505) 885-2111; 911	
Clayton, NM	Clayton, NM	(505) 374-2501	
Denver City Ambulance	Denver City, TX	(806) 592-3516	
Eldorado Ambulance	Eldorado, TX	(325) 853-3456	
Eunice Ambulance	Eunice, NM	(505) 394-3258	
Goldsmith Ambulance	Goldsmith, TX	(432) 827-3445	
Hobbs, NM	Hobbs, NM	(505) 397-9308	·
Jal, NM	Jal, NM	(505) 395-2501	
Jayton Ambulance	Jayton, TX	(806) 237-3801	
Lamesa Ambulance	Lamesa, TX	(806) 872-3464	· · · · · · · · · · · · · · · · · · ·
Lamesa Ambulance	Levelland, TX	(806) 894-8855	
	Lovington, NM	(505) 396-2811	
Lovington Ambulance	McCamey, TX	(432) 652-8626	
McCamey Hospital Midland Ambulance	Midland, TX	(432) 685-7499	

Person	Location	Office Phone	Cell/Mobile Phone
Monahans Ambulance	Monahans, TX	3731	
Nara Visa, NM	Nara Visa, NM	(505) 461-3300	
Odessa Ambulance	Odessa, TX	(432) 335-3378	
Ozona Ambulance	Ozona, TX	(325) 392-2671	
Pecos Ambulance	Pecos, TX	(432) 445-4444	
Rankin Ambulance	Rankin, TX	(432) 693-2443	
San Angelo Ambulance	San Angelo, TX	(325) 657-4357	
Seminole Ambulance	Seminole, TX	758-9871	
Snyder Ambulance	Snyder, TX	(325) 573-1911	
Stanton Ambulance	Stanton, TX	(432) 756-2211	
Sundown Ambulance	Sundown, TX	911	
Tucumcari, NM	Tucumcari, NM	911	
Medical Air Ambulance Service			
AEROCARE - Methodist Hospital	Lubbock, TX	(800) 627-2376	
San Angelo Med-Vac Air Ambulance	San Angelo, TX	(800) 277-4354	
Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199	
Southwest MediVac	Snyder, TX	(800) 242-6199	
Southwest MediVac	Hobbs, NM	(800) 242-6199	
Odessa Care Star	Odessa, TX	(888) 624-3571	
NWTH Medivac	Amarillo, TX	(800) 692-1331	

## OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) CORRAL CANYON 36-25 FED COM Corral Canyon 36\_25 Fed Com 74H

Wellbore #1

**Plan: Permitting Plan** 

# **Standard Planning Report**

03 September, 2019

## Oxy Inc.

## Planning Report

Database:	HOPS				,	ordinate Re	ference:	Well Corral Car		ed Com	7 <b>4</b> H
Company:		NEERING DES		(NAD 1092)	TVD Refe			RKB=26.5' @ 3			
Project: Site:		RAL CANYON 3			MD Refer			RKB=26.5' @ 3	3169.50ft		
Vell:					North Ref		· · · · · · · · · · · · ·	Grid			
Vell: Vellbore:	Wellbo	Canyon 36_25	rea Com /	48	Survey Ca	alculation M	ethod:	Minimum Curva	ature		
Design:	(Perm	tting Plan			<u> </u>			د جور، بررستر مرده الانداد			
Project	PRD N	M DIRECTION	AL PLANS (	NAD 1983)	·····	· · · · · · · · · · ·		La construction and the second s	مرد و مرور مستاریند. او برد از مرور مستاریند. مراجع از مرور از مرور م		· · · · · · · · · · · · · · · · · · ·
Map System: Geo Datum:	North An	e Plane 1983 nerican Datum			System Da	tum:	М	ean Sea Level			
Map Zone:	New Me:	xico Eastern Zo	one				U	sing geodetic so	ale factor		
Site	<b>∮ COŘ</b> R∕	AL CANYON 3	3-25 FED CO	M	ین بیاریند در میترین بر بر در بر بر ایندر میشور در میتر در	ارد. مطهمه و در مارد. در د مطهمه و در معرو			······································		
Site Position:			North	ning:	424,1	164.47 usft	Latitude:			32° 9'	55.801317
From:	Мар	)	Easti	ng:	662,4	497.64 usft	Longitude:				30.391750
Position Uncert	tainty:	50.0		Radius:	,	13.200 in	Grid Conve	rgence:			0.2
Well	Corral (	Canyon 36_25	Eed Com 74								
Well Position	+N/-S			orthing:		423,696.46	ueft la	titude:	<u></u>	<u>, , , , , , , , , , , , , , , , , , , </u>	51.036029
	+E/-W	3,664		asting:		666,161.38		ngitude:			47.788157
Position Uncert				/ellhead Eleva	tion <sup>.</sup>			ound Level:		103 55	3,143.00
						0.					3, 143.00
Wellbore	Wellbo	/re`#1	مرید در در مروسون به در در استان مرونون به در در استان مرونون		1. 1997 - 1. 1997 - 1. 1997 - 1. 1997 - 1997	an a	ari "An anti-anti-anti-anti-anti-anti-anti- 3 anti-anti-anti-anti-anti-anti-anti- anti-anti-anti-anti-anti-anti-anti-anti-	ישער היו באראי איז איז איז איז איז איז איז איז איז א	افتارو میشوند. بر بنی المهمون م		
									·····		
Magnetics	Mo	del Name	Samp	le Date	Declina	tion		Angle		Strength	
Magnetics	Mo	del Name	Samp	le Date	Declina (°)	tion		Angle °)		Strength (nT)	. ·
Magnetics	·	del Name HDGM_FILE	Samp	le Date 9/3/2019		tion 6.82					
Magnetics Design	·	HDGM_FILE	Samp					°) ¯		(nT)	
		HDGM_FILE	Samp					°) ¯		(nT)	
Design Audit Notes:		HDGM_FILE	Samp	9/3/2019		6.82		°) 59.82		(nT)	
Design	(Permitt	HDGM_FILE	Phas pth From (T	9/3/2019 se: P	(°) PROTOTYPE +N/-S	6.82  Tiu +E	e On Depth: :/-W	°) 59.82	47,8 0.00 ection	(nT)	
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Design Audit Notes: Version: Vertical Section	(Permitt n: pol Program	HDGM_FILE ing Plan De Date	Phas pth From (T (ft) 0.00	9/3/2019 se: P VD)	(°) PROTOTYPE +N/-S (ft) 0.00	6.82  Tio +E (	e On Depth: :/-₩ ft)	°)59.82	() 47,5 0.00 ection (°)	(nŢ) 355.4000	0000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft)	(_Permitt n: pol Program m Depti (ft	HDGM_FILE ing Plan De Date	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore)	9/3/2019 se: P VD)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name	6.82 Tii +E ( 0	e On Depth: /-W ft) .00	°)59.82	() 47,5 0.00 ection (°)	(nŢ) 355.4000	0000
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Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft)	(_Permitt n: pol Program m Depti (ft	HDGM_FILE ing Plan De Date	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore)	9/3/2019 se: P VD) Ilbore #1)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name	6.82 Tiu +E ( 0 D+HRGM	e On Depth: /-W ft) .00	°)59.82	() 47,5 0.00 ection (°)	(nŢ) 355.4000	0000
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Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 0. Plan Sections	(_Permitt n: pol Program m Depti (ft	HDGM_FILE ing Plan De Date	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Wel	9/3/2019 se: P VD) Ilbore #1)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/	6.82 Tio +E ( 0 D+HRGM + HRGM	e On Depth: /-W ft) .00 Remarks	ey	() 47,5 0.00 ection (°)	(nŢ) 355.4000	0000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 0. Plan Sections Measured	(Permitt n: pol Program pm Depti (ft .00 18,41	HDGM_FILE ing Plan De Date Date 10 8.69 Permittir	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Wel	9/3/2019 se: P VD)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/ OWSG MWD	6.82 Tiu +E ( 0 D+HRGM + HRGM	e On Depth: //-W ft) 00 Remarks Build	°) 59.82 Dire 35	() 47,8 0.00 ection (°) 55.80	(nŢ) 355.4000	0000
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Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft) 1 0. Plan Sections Measured Depth In (ft)	(Permitt n: pol Program om Depti (ft .00 18,41	HDGM_FILE ing Plan De Date 1 To 3 Survey 8.69 Permittir Azimuth (°)	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Wel Vertical Depth (ft)	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/ OWSG MWD +E/-W (ft)	6.82 Tiu +E ( 0 D+HRGM + HRGM Dogleg Rate (°/100ft)	e On Depth: /-W ft) 00 Remarks Build Rate (°/100ft)	°) 59.82 Dire 35 35 Turn Rate (°/100ft)	() 47,8 0.00 ection (°) 55.80 TFO (°)	(nŢ) 355.4000	2000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft) 1 0. Plan Sections Measured Depth In (ft) 0.00	(Permitt n: pol Program om Depti (ft .00 18,41	HDGM_FILE ing Plan De Date 1 To 3 Survey 8.69 Permittir Azimuth (°) 0.00	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Well Vertical Depth (ft) 0.00	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft) 0.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/ OWSG MWD +E/-W (ft) 0.00	6.82 Tiu +E ( 0 D+HRGM + HRGM Dogleg Rate (°/100ft) 0.00	e On Depth: /-W ft) 00 Remarks Build Rate (°/100ft) 0.00	°) 59.82 Dire 35 35 Turn Rate (°/100ft) 0.00	() 47,8 0.00 ection (°) 55.80 TFO (°) 0.00	(nŢ) 355.4000	2000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft) 1 0. Plan Sections Measured Depth In (ft)	(Permitt n: pol Program om Depti (ft .00 18,41	HDGM_FILE ing Plan De Date 1 To 3 Survey 8.69 Permittir Azimuth (°)	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Wel Vertical Depth (ft)	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/ OWSG MWD +E/-W (ft)	6.82 Tiu +E ( 0 D+HRGM + HRGM Dogleg Rate (°/100ft)	e On Depth: /-W ft) 00 Remarks Build Rate (°/100ft)	°) 59.82 Dire 35 35 Turn Rate (°/100ft) 0.00	() 47,8 0.00 ection (°) 55.80 TFO (°)	(nŢ) 355.4000	2000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft) 1 0. Plan Sections Measured Depth In (ft) 0.00	(Permitt n: pol Program om Depti (ft .00 18,41	HDGM_FILE ing Plan De Date 1 To 3 Survey 8.69 Permittir Azimuth (°) 0.00	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Well Vertical Depth (ft) 0.00	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft) 0.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/ OWSG MWD +E/-W (ft) 0.00	6.82 Tiu +E ( 0 D+HRGM + HRGM Dogleg Rate (°/100ft) 0.00	e On Depth: /-W ft) 00 Remarks Build Rate (°/100ft) 0.00	°) 59.82 Dire 35 35 7 7 rrn Rate (°/100ft) 0.00 0.00	() 47,8 0.00 ection (°) 55.80 TFO (°) 0.00	(nŢ) 355.4000	2000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft) 1 0. Plan Sections Measured Depth In (ft) 0.00 3,586.00	(Permitt n: pol Program om Depti (ft .00 18,41	HDGM_FILE ing Plan De Date Date 1 Survey 8.69 Permittir Azimuth (°) 0.00 0.00	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Well Vertical Depth (ft) 0.00 3,586.00	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft) 0.00 0.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MWI OWSG MWD +E/-W (ft) 0.00 0.00 0.00	6.82 Tiu +E ( 0 D+HRGM + HRGM Dogleg Rate (°/100ft) 0.00 0.00	e On Depth: /-W ft) 9 00 Remarks Build Rate (°/100ft) 0.00 0.00 0.00	°) 59.82 Dire 35 35 7 7 7 7 7 7 8 8 8 6 (°/100ft) 0.00 0.00 0.00 0.00	() () () () () () () () () () () () () (	(nŢ) 355.4000	2000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth From (ft) 1 0. Plan Sections Measured Depth (ft) 0.00 3,586.00 4,486.03	(Permitt n: pol Program om Depti (ft .00 18,41	HDGM_FILE ing Plan De Date Date 1 Survey 8.69 Permittir Azimuth (°) 0.00 0.00 288.15	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Well Vertical Depth (ft) 0.00 3,586.00 4,471.30	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft) 0.00 0.00 43.67	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW OWSG MWD +E/-W (ft) 0.00 0.00 0.00 -133.25	6.82 Tiu +E ( 0 D+HRGM + HRGM + HRGM Dogleg Rate (°/100ft) 0.00 0.00 2.00	e On Depth: /-W ft) 000 Remarks Build Rate (°/100ft) 0.00 0.00 0.00 2.00	°) 59.82 Dire 35 35 Turn Rate (°/100ft) 0.00 0.00 0.00 0.00	() (47,8 0.00 ection (°) 55.80 55.80 7FO (°) 0.00 0.00 288.15	(nŢ) 355.4000	2000
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Frod (ft) 1 0. Plan Sections Measured Depth (ft) 0.00 3,586.00 4,486.03 6,200.57	(Permitt n: pol Program om Depti (ft .00 18,41 (;) .00 18,00 18.00 18.00	HDGM_FILE ing Plan De Date Date Survey 8.69 Permittir Azimuth (°) 0.00 0.00 288.15 288.15	Phas pth From (T (ft) 0.00 9/3/2019 (Wellbore) ng Plan (Well Vertical Depth (ft) 0.00 3,586.00 4,471.30 6,101.91	9/3/2019 se: P VD) Ilbore #1) +N/-S (ft) 0.00 0.00 43.67 208.69	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mb_MW/ OWSG MWD +E/-W (ft) 0.00 0.00 -133.25 -636.73	6.82 Tiu +E ( 0 D+HRGM + HRGM + HRGM Dogleg Rate (°/100ft) 0.00 0.00 0.00 0.00	e On Depth: /-W ft) 000 Remarks Build Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00	°) 59.82 Dire 35 35 7 7 7 7 7 7 8 8 6 (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	() 47,8 0.00 ection (°) 55.80 TFO (°) 0.00 0.00 288.15 0.00 124.46	(nŢ) 355.4000	

## Oxy Inc. Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Canyon 36_25 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3169.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3169.50ft
Site:	CORRAL CANYON 36-25 FED COM	North Reference:	Grid
Well:	Corral Canyon 36_25 Fed Com 74H	Survey Calculation Method:	, Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

	Measured Depth . (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
_	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 1,600.00	0.00 0.00	0.00 0.00	1,500 <i>.</i> 00 1,600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	1,700.00	0.00		1,700.00	0.00			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
	3,500.00		0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.28	288.15	3,600.00	0.00	-0.03	0.00	2.00	2.00	0.00
	3,600.00			,						
	3,700.00	2.28	288.15	3,699.97	0.71	-2.16	0.86	2.00	2.00	0.00
	3,800.00	4.28	288.15	3,799.80	2.49	-7.59	3.04	2.00	2.00	0.00
	3,900.00	6.28	288.15	3,899.37	5.35	-16.34	6.53	2.00	2.00	0.00
	4,000.00	8.28	288.15	3,998.56	9.30	-28.38	11.35	2.00	2.00	0.00
	4,100.00	10.28	288.15	4,097.25	14.32	-43.70	17.48	2.00	2.00	0.00
	4,200.00	12.28	288.15	4,195.31	20.41	-62.29	24.92	2.00	2.00	0.00
	4,300.00	14.28	288.15	4,292.63	27.57	-84.11	33.65	2.00	2.00	0.00
	4,400.00	16.28	288.15	4,389.09	35.78	-109.16	43.67	2.00	2.00	0.00
	4,400.00	18.00	288.15	4,389.09	43.67	-133.25	53.30	2.00	2.00	0.00
					45.07	-135.25	54.95		0.00	0.00
	4,500.00	18.00	288.15	4,484.58				0.00		
	4,600.00	18.00	288.15	4,579.69	54.64	-166.72	66.69	0.00	0.00	0.00
	4,700.00	18.00	288.15	4,674.79	64.27	-196.08	78.44	0.00	0.00	0.00
	4,800.00	18.00	288.15	4,769.90	73.89	-225.45	90.19	0.00	0.00	0.00
	4,900.00	18.00	288.15	4,865.00	83.51	-254.81	101.93	0.00	. 0.00	0.00
	5,000.00	18.00	288.15	4,960.11	93.14	-284.18	113.68	0.00	0.00	0.00
	5,100.00	18.00	288.15	5,055.22	102.76	-313.55	125.43	0.00	0.00	0.00

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Company:	ENGINEERING DESIGNS	TVD Reference:	' RKB=26.5' @ 3169.50ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3169.50ft
Site:	CORRAL CANYON 36-25 FED COM	North Reference:	Grid
Well:	Corral Canyon 36_25 Fed Com 74H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		· ·
Desian:	Permitting Plan		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(ft)	(°)	(°)	- (ft)	(ft)	- (ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	\$
5,200.00	18.00	288.15	5,150.32	112.39	-342.91	137.18	0.00	0.00	0.00	
5,300.00	18.00	288.15	5,245.43	122.01	-372.28	148.92	0.00	0.00	0.00	
5,400.00	18.00	288.15	5,340.53	131.64	-401.64	160.67	0.00	0.00	0.00	
5,500.00		288.15	5,435.64	141.26	-431.01	172.42	0.00	0.00	0.00	
5,600.00		288.15	5,530.74	150.89	-460.37	184.17	0.00	0.00	0.00	
5,700.00		288.15	5,625.85	160.51	-489.74	195.91	0.00	0.00	0.00	
5,800.00		288.15	5,720.95	170.13	-519.11	207.66	0.00	0.00	0.00	
5,900.00		288.15	5,816.06	179.76	-548.47	219.41	0.00	0.00	0.00	
6,000.00		288.15	5,911.16	189.38	-577.84	231.16	0.00	0.00	0.00	
6,100.00		288.15	6,006.27	199.01	-607.20	242.90	0.00	0.00	0.00	
6,200.00	) 18.00	288.15	6,101.37	208.63	-636.57	254.65	0.00	0.00	0.00	
6,200.57	18.00	288.15	6,101.91	208.69	-636.73	254.72	0.00	0.00	0.00	
6,300.00		293.78	6,196.76	219.32	-664.60	267.36	2.00	-1.05	5.66	
6,400.00		300.10	6,292.64	232.14	-689.92	282.00	2.00	-0.88	6.32	
6,500.00		307.05	6,388.90	247.08	-712.50	298.55	2.00	-0.67	6.95	
6,600.00		314.51	6,485.43	264.13	-732.30					
					-732.30	317.00	2.00	-0.44	7.46	
6,700.00		322.28	6,582.09	283.26	-749.30	337.33	2.00	-0.19	7.77	
6,800.00		330.10	6,678.78	304.45	-763.49	359.50	2.00	0.08	7.83	
6,900.00	15.18	337.72	6,775.38	327.67	-774.84	383.49	2.00	0.34	7.62	
7,000.00	15.76	344.90	6,871.76	352.90	-783.34	409.27	2.00	0.58	7.18	
7,100.00		351.51	6,967.82	380.10	-788.98	436.81	2.00	0.80	6.60	
7,200.00	17.54	357.45	7,063.43	409.24	-791,75				5.95	
						466.07	2.00	0.98		
7,242.18		359.76	7,103.60	422.10	-792.06	478.93	2.00	1.10	5.47	
7,300.00		359.76	7,157.60	442.72	-792.15	499.49	10.00	10.00	0.00	
7,400.00		359.76	7,245.13	490.80	-792.35	547.46	10.00	10.00	0.00	
7,500.00	) 43.78	359.76	7,322.99	553.36	-792.61	609.87	10.00	10.00	0.00	
7,600.00	53.78	359.76	7,388.80	628.48	-792.92	684.82	10.00	10.00	0.00	
7,700.00	63.78	359.76	7,440.56	713.89	-793.28	770.02	10.00		0.00	
7,800.00		359.76	7,476.70	807.00	-793.67	862.91	10.00	10.00	0.00	
7,900.00		359.76	7,496.13	904.96	-794.08	960.64	10.00	10.00	0.00	
7,964.31		359.76	7,499.50		-794.35	1,024.68	10.00	10.00	0.00	
8,000.00		359.76	7,499.37	1,004.84	-794.50	1,060.28	0.00	0.00	0.00	
8,100.00		359.76	7,498.99	1,104.84	-794.92	1,160.04	0.00	0.00	0.00	
8,200.00		359.76	7,498.62	1,204.84	-795.34	1,259.80	0.00	0.00	0.00	
8,300.00		359.76	7,498.25	1,304.83	-795.75	1,359.56	0.00	0.00	0.00	
8,400.00	90.21	359.76	7,497.87	1,404.83	-796.17	1,459.32	0.00	0.00	0.00	
8,500.00	90.21	359.76	7,497.50	1,504.83	-796.59	1,559.08	0.00	0.00	0.00	
8,600.00		359.76	7,497.13	1,604.83	-797.01	1,658.84	0.00	0.00	0.00	
8,700.00		359.76	7,497.13	1,704.83	-797.43	1,758.60	0.00	0.00	0.00	
								0.00		
8,800.00		359.76	7,496.38	1,804.83	-797.84	1,858.36	0.00		0.00	
8,900.00	90.21	359.76	7,496.01	1,904.82	-798.26	1,958.13	0.00	0.00	0.00	
9,000.00	90.21	359.76	7,495.64	2,004.82	-798,68	2,057.89	0.00	0.00	0.00	
9,100.00		359.76	7,495.26	2,104.82	-799.10	2,157.65	0.00	0:00	0.00	
9,200.00		359.76	7,494.89	2,204.82	-799.52	2,257.41	0.00	0.00	0.00	
9,300.00		359.76	7,494.52	2,304.82	-799.94	2,357.17	0.00	0.00	0.00	
9,400.00		359.76	7,494.14	2,404.82	-800.35	2,456.93	0.00	0.00	0.00	
9,500.00		359.76	7,493.77	2,504.81	-800.77	2,556.69	0.00	0.00	0.00	
9,600.00		359.76	7,493.40	2,604.81	-801.19	2,656.45	0.00	0.00	0.00	
9,700.00	90.21	359.76	7,493.03	2,704.81	-801.61	2,756.21	0.00	0.00	0.00	
9,800.00	) 90.21	359.76	7,492.65	2,804.81	-802.03	2,855.97	0.00	0.00	0.00	
9,900.00		359.76	7,492.28	2,904.81	-802.45	2,955.74	0.00	0.00	0.00	
10,000.00		359.76	7,491.91	3,004.81	-802.86	3,055.50	0.00	0.00	0.00	
10,100.00		359.76	7,491.53	3,104.81	-803.28	3,155.26	0.00	0.00	0.00	
10,200.00	90.21	359.76	7,491.16	3,204.80	-803.70	3,255.02	0.00	0.00	0.00	

COMPASS 5000.15 Build 90

## Oxy Inc.

## Planning Report

Database: Company: Project: Site: Well: Wellbore: Desian:	CORRAL CA	ECTIONAL PL NYON 36-25 F In 36_25 Fed C		TVD R MD Re North	Co-ordinate F eference: iference: Reference: y Calculation		Well Corral ( RKB=26.5' ( RKB=26.5' ( Grid Minimum Cu	2 3169.50ft	Fed Com 74H
Planned Survey			internet and an and a second data and a Second and an			الم			<del>ala anti al an anta ang ang</del> ang
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,300.00 10,400.00	90.21 90.21	359.76 359.76	7,490.79 7,490.41	3,304.80 3,404.80	-804.12 -804.54	3,354.78 3,454.54	0.00	0.00	0.00
10,500.00 10,600.00 10,700.00 10,800.00 10,900.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76 359.76	7,490.04 7,489.67 7,489.29 7,488.92 7,488.55	3,504.80 3,604.80 3,704.80 3,804.79 3,904.79	-804.95 -805.37 -805.79 -806.21 -806.63	3,554.30 3,654.06 3,753.82 3,853.58 3,953.35	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,000.00 11,100.00 11,200.00 11,300.00 11,400.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76	7,488.18 7,487.80 7,487.43 7,487.06 7,486.68	4,004.79 4,104.79 4,204.79 4,304.79 4,404.78	-807.05 -807.46 -807.88 -808.30 -808.72	4,053.11 4,152.87 4,252.63 4,352.39 4,452.15	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,500.00 11,600.00 11,700.00 11,800.00 11,800.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76	7,486.31 7,485.94 7,485.56 7,485.19 7,484.82	4,504.78 4,604.78 4,704.78 4,804.78 4,904.78	-809.14 -809.56 -809.97 -810.39 -810.81	4,551.91 4,651.67 4,751.43 4,851.19 4,950.96	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
12,000.00 12,100.00 12,200.00 12,300.00 12,400.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76 359.76	7,484.45 7,484.07 7,483.70 7,483.33 7,482.95	5,004.78 5,104.77 5,204.77 5,304.77 5,404.77	-811.23 -811.65 -812.06 -812.48 -812.90	5,050.72 5,150.48 5,250.24 5,350.00 5,449.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
12,500.00 12,600.00 12,700.00 12,800.00 12,800.00 12,900.00	90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76 359.76	7,482.58 7,482.21 7,481.83 7,481.46 7,481.09	5,504.77 5,604.77 5,704.76 5,804.76 5,904.76	-813.32 -813.74 -814.16 -814.57 -814.99	5,549.52 5,649.28 5,749.04 5,848.80 5,948.57	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,000.00 13,100.00 13,200.00 13,300.00 13,400.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76 359.76	7,480.71 7,480.34 7,479.97 7,479.60 7,479.22	6,004.76 6,104.76 6,204.76 6,304.76 6,404.75	-815.41 -815.83 -816.25 -816:67 -817.08	6,048.33 6,148.09 6,247.85 6,347.61 6,447.37	0.00 0.00 0.00 0.00 0.00	. 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,500.00 13,600.00 13,700.00 13,800.00 13,800.00 13,900.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76 359.76	7,478.85 7,478.48 7,478.10 7,477.73 7,477.36	6,504.75 6,604.75 6,704.75 6,804.75 6,904.75	-817.50 -817.92 -818.34 -818.76 -819.17	6,547.13 6,646.89 6,746.65 6,846.41 6,946.18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,000.00 14,100.00 14,200.00 14,300.00 14,400.00	90.21 90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76 359.76	7,476.98 7,476.61 7,476.24 7,475.86 7,475.49	7,004.74 7,104.74 7,204.74 7,304.74 7,404.74	-819.59 -820.01 -820.43 -820.85 -821.27	7,045.94 7,145.70 7,245.46 7,345.22 7,444.98	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,500.00 14,600.00 14,700.00 14,800.00 14,900.00	90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76	7,475.12 7,474.75 7,474.37 7,474.00 7,473.63	7,504.74 7,604.73 7,704.73 7,804.73 7,904.73	-821.68 -822.10 -822.52 -822.94 -823.36	7,544.74 7,644.50 7,744.26 7,844.02 7,943.79	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,000.00 15,100.00 15,200.00 15,300.00 15,400.00	90.21 90.21 90.21 90.21 90.21	359.76 359.76 359.76 359.76 359.76	7,473.25 7,472.88 7,472.51 7,472.13 7,471.76	8,004.73 8,104.73 8,204.73 8,304.72 8,404.72	-823.77 -824.19 -824.61 -825.03 -825.45	8,043.55 8,143.31 8,243.07 8,342.83 8,442.59	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,500.00 15,600.00	90.21 90.21	359.76 359.76	7,471.39 7,471.02	8,504.72 8,604.72	-825.87 -826.28	8,542.35 8,642.11	0.00 0.00	0.00 0.00	0.00 0.00

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COMPASS 5000.15 Build 90

## **Oxy Inc.** Planning Report

Company: Project: Site: Well: Wellbore: Design:	ENGINEERING DESIGNS PRD NM DIRECTIONAL F CORRAL CANYON 36-25 Corral Canyon 36_25 Fed Wellbore #1 Permitting Plan	PLANS (NAD 1983 FED COM	3) MD Nort	Il Co-ordinate Reference: Reference: h Reference: ey Calculatio	a 1 2 1 1			· · · ·	
Planned Survey Measured Depth	Inclination Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	

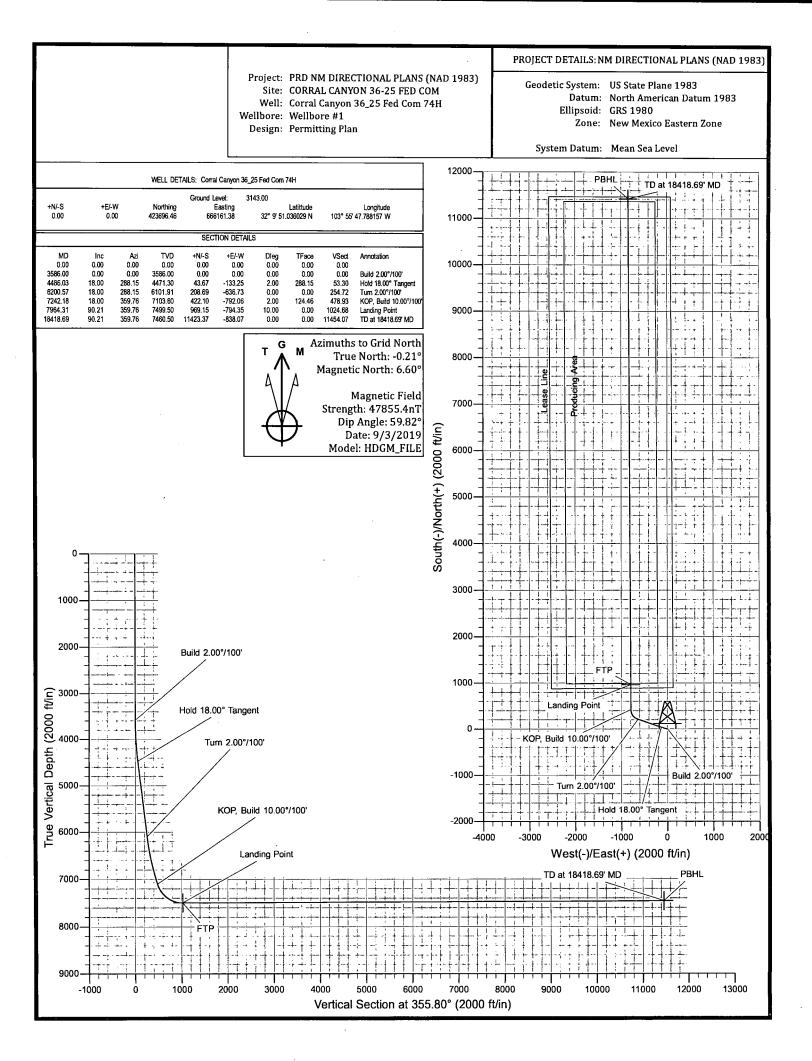
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)	
15,700.00		359.76	7,470.64	8,704.72	-826.70	8,741.87	0.00	0.00	0.00	
15,800.00		359.76	7,470.27	8,804.72	-827.12	8,841.63	0.00	0.00	0.00	
15,900.00	90.21	359.76	7,469.90	8,904.71	-827.54	8,941.40	0.00	0.00	0.00	
16,000.00		359.76	7,469.52	9,004.71	-827.96	9,041.16	0.00	0.00	0.Ó0	
16,100.00		359.76	7,469.15	9,104.71	-828.38	9,140.92	0.00	0.00	0.00	
16,200.00	90.21	359.76	7,468.78	9,204.71	-828.79	9,240.68	0.00	0.00	0.00	
16,300.00	) 90.21	359.76	7,468.40	9,304.71	-829.21	9,340.44	0.00	0.00	0.00	
16,400.00	90.21	359.76	7,468.03	9,404.71	-829.63	9,440.20	0.00	0.00	0.00	
16,500.00	90.21	359.76	7,467.66	9,504.70	-830.05	9,539.96	0.00	0.00	0.00	
16,600.00	) 90.21	359.76	7,467.28	9,604.70	-830.47	9,639.72	. 0.00	0.00	0.00	
16,700.00	) 90.21	359.76	7,466.91	9,704.70	-830.88	9,739.48	0.00	0.00	0.00	
16,800.00	) 90.21	359.76	7,466.54	9,804.70	-831.30	9,839.24	0.00	0.00	0.00	
16,900.00	90.21	359.76	7,466.17	9,904.70	-831.72	9,939.01	0.00	0.00	0.00	
17,000.00	90.21	359.76	7,465.79	10.004.70	-832.14	10,038.77	0.00	0.00	0.00	
17,100.00	90.21	359.76	7,465.42	10,104.70	-832.56	10,138.53	0.00	0.00	0.00	
17,200.00	90.21	359.76	7,465.05	10,204.69	-832.98	10,238,29	0.00	0.00	0.00	
17,300.00	90.21	359.76	7,464.67	10,304.69	-833.39	10,338.05	0.00	0.00	0.00	
17,400.00	90.21	359.76	7,464.30	10,404.69	-833.81	10,437.81	0.00	0.00	0.00	
17,500.00	90.21	359.76	7,463.93	10,504.69	-834.23	10,537.57	0.00	0.00	0.00	
17,600.00	90.21	359.76	7,463.55	10,604.69	-834.65	10,637.33	0.00	0.00	0.00	
17,700.00	90.21	359.76	7,463.18	10,704.69	-835.07	10,737.09	0.00	0.00	0.00	
17,800.00	90.21	359.76	7,462.81	10,804.68	-835.49	10,836.85	0.00	0.00	0.00	
17,900.00	90.21	· 359.76	7,462.44	10,904.68	-835.90	10,936.62	0.00	0.00	0.00	
18,000.00	90.21	359.76	7,462.06	11,004.68	-836.32	11,036.38	0.00	0.00	0.00	
18,100.00	90.21	359.76	7,461.69	11,104.68	-836.74	11,136.14	0.00	0.00	0.00	
18,200.00		359.76	7,461.32	11,204.68	-837.16	11,235.90	0.00	0.00	0.00	
18,300.00	90.21	359.76	7,460.94	11,304.68	-837.58	11,335.66	0.00	0.00	0.00	
18,400.00	90.21	359.76	7,460.57	11,404.68	-837.99	11,435.42	0.00	0.00	0.00	
18,418.69	90.21	359.76	7,460.50	11,423.37	-838.07	11,454.07	0.00	0.00	0.00	

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Corral Canyon - plan hits target cen - Point	0.00 ter	0.00	7,460.50	11,423.37	-838.07	435,118.97	665,323.37	32° 11' 44.102925 N	103° 55' 57.04232
FTP (Corral Canyon - plan hits target cen - Point	0.00 ter	0.00	7,499.50	969.15	-794.35	424,665.54	665,367.09	32° 10' 0.655328 N	103° 55' 56.98681

## Oxy Inc.

## Planning Report

Database:       HOPSPP         Company:       ENGINEERING DESIGNS         Project:       PRD NM DIRECTIONAL F         Site:       CORRAL CANYON 36-25         Vell:       Corral Canyon 36_25 Fed         Wellbore:       Wellbore #1			L PLANS (NAD 1983 25 FED COM	TVD Re MD Ref North F	Co-ordinate Reference: eference: erence: Reference: Calculation Method:	Well Corral Canyon 36_25 Fed Com 74H RKB=26.5' @ 3169.50ft RKB=26.5' @ 3169.50ft Grid Minimum Curvature
Design:	· •	ting Plan				
Plan Annota	tions			ار ایر دیاری هایی محاد مان وربی المین ۲۰۰ مینی محاط ارد	an a station and a station at a station of the stat	nen andre en andre andre en andre andre en andr Andre en andre en and
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordi +N/-S (ft)	inates +E/-W (ft)	Comment	
	3,586.00 4,486.03 6,200.50 7,242.18 7,964.31 18,418.69	3,586.00 4,471.30 6,101.85 7,103.60 7,499.50 7,460.50	0.00 43.67 208.68 422.11 969.15 11,423.36	0.00 -133.25 -636.72 -792.06 -794.35 -838.07	Build 2.00°/100' Hold 18.00° Tangent Turn 2.00°/100' KOP, Build 10.00°/100 Landing Point TD at 18418.69' MD	r



## **OXY USA Inc** APD ATTACHMENT: SPUDDER RIG DATA

#### **OPERATOR NAME / NUMBER: OXY USA Inc**

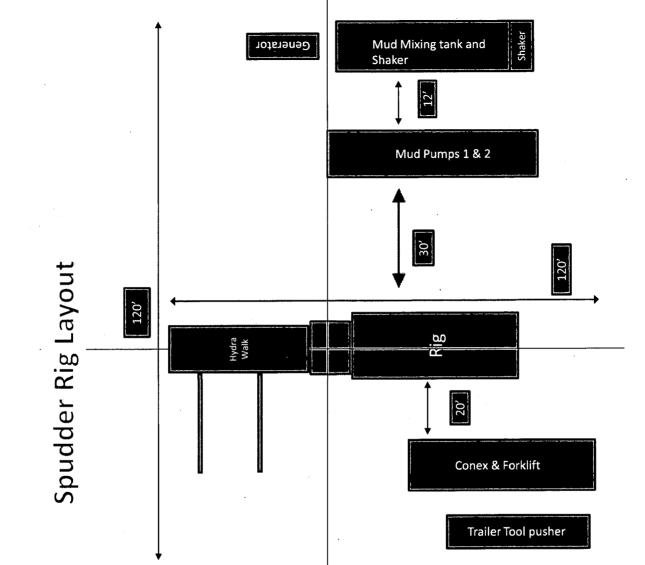
#### 1. SUMMARY OF REQUEST:

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.



#### 1. Geologic Formations

TVD of target	7499'	Pilot Hole Depth	N/A
MD at TD:	18418'	Deepest Expected fresh water:	434'

**Delaware Basin** 

Formation	TVD - RKB	<b>Expected Fluids</b>
Rustler	434	
Salado	909	Salt
Castile	1,885	Salt
Lamar/Delaware	3,374	Oil/Gas/Brine
Bell Canyon	3,390	Oil/Gas/Brine
Cherry Canyon	4,304	Oil/Gas/Brine
Brushy Canyon	5,635	Losses
Bone Spring	7,176	Oil/Gas

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

#### 2. Casing Program

									Buoyant	Buoyant	
Π.Ι. Ο (!)	Casing I	Casing Interval Csg. Size V	Casing Interval Csg. Size Weight Grade Conn.				Carra	SF	OF Burns	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs) Collapse	SF Burst	Tension	Tension				
17.5	0	484	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4	
12.25	0	3424	9.625	40	L-80	BTC	1.125	1.2	1.4	1.4	
8.5	0	7692	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4	
8.5	7692	18418	4.5	13.5	P-110	DQX	1.125	1.2	1.4	1.4	
			SF Values will	meet or Exceed	1						

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.

\*Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

#### OXY USA Inc. - Corral Canyon 36-25 Federal Com 74H – Amended Drill Plan

### Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	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 justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
	1
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 SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	<u> </u>
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## 3. Cementing Program

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	. N/A	N/A	N/A	N/A	N/A
Surface (Tail)	517	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	765	12.9	1.73	8.784	15:26	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.368	7:11	Class C Cement, Accelerator
Production 1st Stage (Lead)	226	13.2	1.38	6.692	17:50	Class H Cement, Retarder, Dispersant, Salt
Production 1st Stage (Tail)	1968	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt
2nd Stage Producti	on Lead Slur	ry to be pumpe	ed as Bradenhe	ad Squeeze fi	rom surface, o	down the Production annulus.
Production 2nd Stage (Tail)	854	12.9	1.872	10.11	21:54	Class C Cement, Accelerator

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	484	100%
Intermediate (Lead)	0	2924	50%
Intermediate (Tail)	2924	3424	20%
Production 1st Stage (Lead)	5885	7176	5%
Production 1st Stage (Tail)	7176	18418	5%
Production 2nd Stage (Tail)	. 0	5885	25%

\*OXY requests a variance to cement the 9-5/8" and/or 7-5/8" intermediate casing strings offline, see attached for additional information.

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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	2 • • • • • • • •	4	Tested to:																														
		3М	Annul	ar	1	70% of working pressure																														
12.25" Hole	13-5/8"		Blind R	am	<ul> <li>✓</li> </ul>																															
12.25" Hole		216	3M	23.6	214	214	23.6	214	23.6	214	214	214	214			214	214	214	214	214	214	214	214	214	216	214	214	214	214	214	214	1	Pipe Ra	ım		250
				Double Ram		✓	250 psi / 3000 psi																													
																					Other*															
		3M	Annul	ar	1	70% of working pressure																														
8.5" Hole			Blind Ram		<ul> <li>✓</li> </ul>																															
8.5 Hole				2)(			Pipe Ra	am		250 mai / 2000 mai																										
		3M	31/1	Double l	Ram	<ul> <li>✓</li> </ul>	250 psi / 3000 psi																													
			Other*																																	

## 4. Pressure Control Equipment

\*Specify if additional ram is utilized.

Oxy will utilize a 5M annular with a 10M BOPE stack. The 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						
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.						

### OXY USA Inc. - Corral Canyon 36-25 Federal Com 74H – Amended Drill Plan

#### **BOP Break Testing Request**

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

BOP break test under the following conditions:

- 1. After a full BOP test is conducted
- 2. When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- 3. When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

1. Wellhead flange, co-flex hose, kill line connections and upper pipe rams

2. Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1. Wellhead flange, co-flex hose, check valve, upper pipe rams

## 5. Mud Program

De	pth	Trees	Weight	Viceosita	Water Long
From (ft)	To (ft)	Туре	(ppg)	Viscosity	Water Loss
0	° 484	Water-Based Mud	8.6-8.8	40-60	N/C
484	3424	Saturated Brine-	9.8-10.0	35-45	N/C
404	3424	Based Mud			11/C
3424 18418		Water-Based or Oil-	8.0-9.6	38-50	N/C
5424	16416	Based Mud	8.0-9.0	58-50	IN/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.

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

#### 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	tional logs planned	Interval		
No	Resistivity			
No	Density		•	
No	CBL			
Yes	Mud log	ICP - TD		
No	PEX			

## 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3744 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	. 140°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.	Yes
• We plan to drill the four well pad in batch by section: all surface sections,	
intermediate sections and production sections. The wellhead will be	
secured with a night cap whenever the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	Yes
• 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.	

### Total estimated cuttings volume: 1625 bbls.

#### 9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
William Turner	Drilling Engineer Supervisor	713-350-4951	661-817-4586
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

State of New Mexico Energy, Minerals and Natural Resources Department

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

Submit Original to Appropriate District Office

#### GAS CAPTURE PLAN

Date: 6/28/2019

⊠ Original

Operator & OGRID No.: OXY USA INC. - 16696

□ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Corral Canyon 36-25 Fd Com 6H	Pending	1-1-25S-29E	810 FNL 150 FEL	3,100	0	
Corral Canyon 36-25 Fd Com 14H	Pending	1-1-25S-29E	840 FNL 150 FEL	3,900	0	
Corral Canyon 36-25 Fed Com 44H	Pending	1-1-25S-29E	910 FNL 150 FEL	7,100	0	
Corral Canyon 36-25 Fed Com 74H	Pending	1-1-25S-29E	875 FNL 150 FEL	1,200	0	

#### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from the production facility is sent to <u>ETC Texas Pipeline, LTD ("ETC"</u>) and is connected to <u>ETC</u> high pressure gathering system located in Eddy County, New Mexico. <u>OXY USA INC. ("OXY"</u>) provides (periodically) to <u>ETC</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>OXY</u> and <u>ETC</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Orla Plant Processing Plant located in Sec. 35, Block 57, T2, T&P RR CO, Reeves, County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Enterprise</u> system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### **Alternatives to Reduce Flaring**

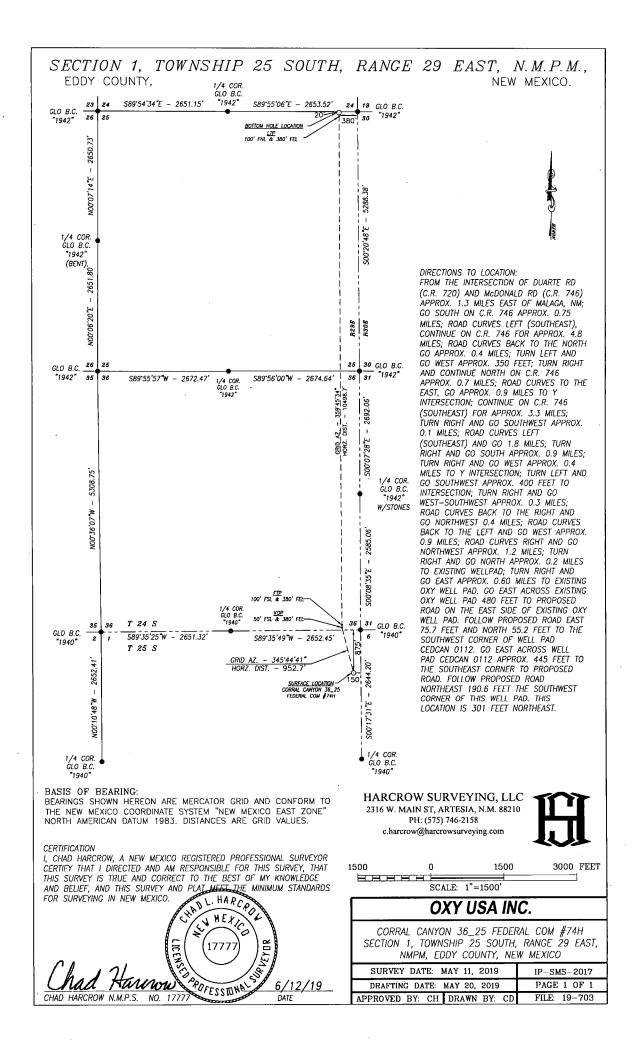
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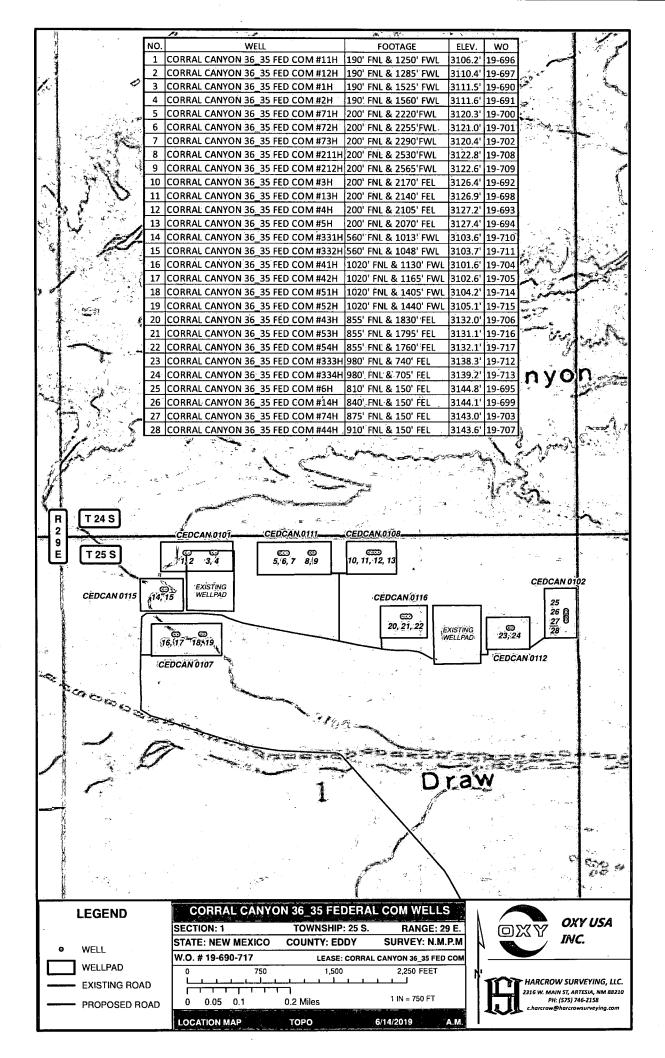
Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
  - Compressed Natural Gas On lease
    - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

18 St	NO.	<i>V <b>A</b>GENYSE, KI</i>	WELL			TAGE	1	wo		
	_	CORRAI			190' FNL &		ELEV. 3106.2			. A Star
					190' FNL &		3110.4		1992	
				5 FED COM #12H					14.94	1000
	_			5 FED COM #1H	190' FNL & 190' FNL &		3111.5' 3111.6'		C. A REAL PROPERTY OF	
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	OXY U.S.A. INC. NEW MEXICO STAKING FORM	
Date Staked:	5/8/2019	
Lease / Well Name:	COTTAL LANYON 36_25 Fed COM #74.4	
Legal Description:	875 FNL 150FEL Sec 1 - T255 - RAuge 24E	
Latitude:	32.164176	NAD 83
Longitude:	-103.929940	NAD 83
	6666161.687	NAD 83
	423696,175	NAD 83
	3143.0	NAD 83
Move information:	/	
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Nearest Residence:		
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Source of Caliche:	,	······
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#### Surface Use Plan of Operations

Operator Name/Number:OXY USA Inc. – 16696Lease Name/Number:Corral Canyon 36-25 Federal Com #74HPool Name/Number:Pierce Crossing Bone Spring, EastSurface Location:875 FNL 150 FEL NENE (1) Sec 1 T25S R29E – FeeBottom Hole Location:20 FNL 380 FEL NENE (A) Sec 25 T24S R29E – NMNM065408

#### 1. Existing Roads

- a. A copy of the USGS "Pierce Canyon, NM" quadrangle map is attached showing the proposed location. The well location is spotted on the map, which shows the existing road system.
- b. The well was staked by Terry J. Asel, Certificate No. 15079 on 5/11/19, certified 6/12/19.
- c. Directions to Location: From the intersection of CR 720 (Duarte Rd) and CR 746 (McDonald Rd) go east on CR 720 for 1.3 miles. Go south on CR 746 for 0.75 miles. Road curves left (southeast), continue for 4.8 miles. Road curves back to the north, go 0.4 miles. Turn left and go west for 350'. Turn right and go north for 0.7 miles, road curves to the east, go 0.9 miles to Y intersection. Continue southeast on CR 746 for 3.3 miles. Turn right and go southwest for 0.1 miles. Road curves left, go southeast for 1.8 miles. Turn right and go south for 0.9 miles. Turn right and go west for 0.4 miles to Y intersection. Turn left and go southwest for 400'. Turn right and go west/southwest for 0.3 miles. Road curves back to the right, go northwest for 0.4 miles. Road curves to the left, go west for 0.9 miles. Road curves back to the right, go northwest for 0.4 miles. Road curves to the left, go west for 0.9 miles. Road curves right, go northwest for 1.2 miles. Turn right and go north for 0.2 miles to an existing well pad. Turn right and go east for 0.6 miles to an existing well pad, go east across well pad 480' to proposed road. Follow proposed road and go east 75.7', then 55.2' north to southwest corner of proposed well pad, go east across well pad for 445' to southeast corner. Follow proposed road and go 190.6' northeast to southwest corner of pad.

#### 2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run from an existing pad and go 75.7' east, 55.2' north, 445' east and then 190.6' northeast to the southwest corner of the pad.
- b. The maximum width of the road will be 14'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. Turnouts every 1000' as needed.
- e. Blade, water and repair existing caliche roads as needed.
- f. Water Bars will be incorporated every 200' during the construction of the road.

#### 3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on attached plat.

#### 4. Location of Existing and/or Proposed Facilities:

- a. In the event the well is found productive, the Corral Canyon 36-25 Central Tank Battery would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram.
- b. All flow lines will adhere to API standards. They will consist of 3 4" composite production flowlines operating < 75% MAWP, surface lines to follow surveyed route. Survey of a strip of land 30' wide and 9739.2' in length crossing in Section 1 T25S R29E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.</p>

c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 1071.1' in length crossing in Section 1 T25S R29E NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.

#### 5. Location and types of Water Supply

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads.

#### 6. Construction Materials:

#### Primary

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available.

#### Secondary

The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6" of topsoil is pushed off and stockpiled along the side of the location.
- b. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- c. Subsoil is removed and piled alongside the 120' X 120' within the pad site.
- d. When caliche is found, material will be stockpiled within the pad site to build the location and road.
- e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the attached plat.

#### 7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna
- b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

#### 8. Ancillary Facilities: None needed.

#### 9. Well Site Layout:

The proposed well site layout with dimensions of the pad layout and equipment location.

V-Door – South CL Tanks – East Pad – 330' X 510' – 4 Well Pad

#### 10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.
- b. If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

#### 11. Surface Ownership:

The surface is owned by the State of New Mexico. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: Richardson Land & Cattle (JR Engineering & Construction), P.O. Box 487, Carlsbad, NM 88221. They will be notified of our intention to drill prior to any activity.

#### 12. Other Information:

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within one mile of the proposed well site.
- d. Cultural Resources Examination- This well is located in the Permian Basin MOA. Payment to be determined by BLM. This well shares the same pad as the Corral Canyon 36-25 Federal Com #6H, 14H, 44H.
- e. Copy of this application has been mailed to SWCA Environmental Consultants, 5647 Jefferson St. NE, Albuquerque, NM 87109. No Potash leases within one mile of surface location.

#### 13. Bond Coverage:

Bond coverage is Individual-NMB000862, Nationwide-ESB00226.

#### 14. Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below:

Don Kendrick Operations Superintendent 1502 West Commerce Dr. Carlsbad, NM 88220 Office – 575-628-4132 Cellular – 575-602-1484

Jim Wilson Operation Specialist P.O. Box 50250 Midland, TX 79710 Cellular – 575-631-2442 Ana Orozco Asset Manager P.O. Box 4294 Houston, TX Carlsbad, NM 88220 Office – 713-366-5111 Cellular – 281-216-2461

Chan Tysor RMT Lead P.O. Box 4294 Houston, TX 77210 Office – 713-513-6668 Cellular – 832-564-6454