

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOCD-ARTESIA
REC'D: 8/17/2020FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM59386
2. Name of Operator OXY USA INCORPORATED		6. If Indian, Allottee or Tribe Name
3a. Address 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 713-497-2417		8. Well Name and No. CORRAL CANYON 36-25 FED COM 14H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T25S R29E 840FNL 150FEL 32.164272 N Lat, 103.929939 W Lon		9. API Well No. 30-015-46461-00-X1
		10. Field and Pool or Exploratory Area PIERCE CROSSING-BONE SPRING, E
		11. County or Parish, State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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

OXY USA INC. respectfully requests to revise the casing and cement design and mud program for the subject well APD. An addition of a Pilot Hole drilled to 8678' TVD has been included in the drill plan.

See the attached pilot hole, horizontal direction survey and the revised drill plan.

OCD Accepted for Record 8/27/2020 - JAG

14. I hereby certify that the foregoing is true and correct. Electronic Submission #500514 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 01/24/2020 (20PP1016SE)	
Name (Printed/Typed) STEPHEN JANACEK	Title REGULATORY ENGINEER
Signature (Electronic Submission)	Date 01/23/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NDUNGU KAMAU	Title PETROLEUM ENGINEER	Date 07/28/2020
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

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

(Instructions on page 2)

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

Revisions to Operator-Submitted EC Data for Sundry Notice #500514

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM65408	NMNM59386
Agreement:		
Operator:	OXY USA INC. 5 GREENWAY PLAZA, SUITE 110 HOUSTON, TX 77046 Ph: 713-497-2417	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
Admin Contact:	STEPHEN JANACEK REGULATORY ENGINEER E-Mail: stephen_janacek@oxy.com Ph: 713-497-2417	STEPHEN JANACEK REGULATORY ENGINEER E-Mail: stephen_janacek@oxy.com Ph: 713-497-2417
Tech Contact:	STEPHEN JANACEK REGULATORY ENGINEER E-Mail: stephen_janacek@oxy.com Ph: 713-497-2417	STEPHEN JANACEK REGULATORY ENGINEER E-Mail: stephen_janacek@oxy.com Ph: 713-497-2417
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	PIERCE CROSSING BS, EAST	PIERCE CROSSING-BONE SPRING, E
Well/Facility:	CORRAL CANYON 36_25 FED COM 14H Sec 1 T25S R29E Mer NMP NENE 840FNL 150FEL 32.164272 N Lat, 103.929940 W Lon	CORRAL CANYON 36-25 FED COM 14H Sec 1 T25S R29E 840FNL 150FEL 32.164272 N Lat, 103.929939 W Lon



OXY



Borehole:	Well:	Field:	Structure:
ST01	Oxy Corral Canyon 36-25 Federal Com 14H	NM Eddy County (NAD 83)	Oxy Corral Canyon 36-25 Federal Com 14H

Gravity & Magnetic Parameters

Model: HDGM 2019 Dip: 59.846° Date: 22-Dec-2019
 MagDec: 6.791° FS: 47821.717nT Gravity FS: 998.449mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

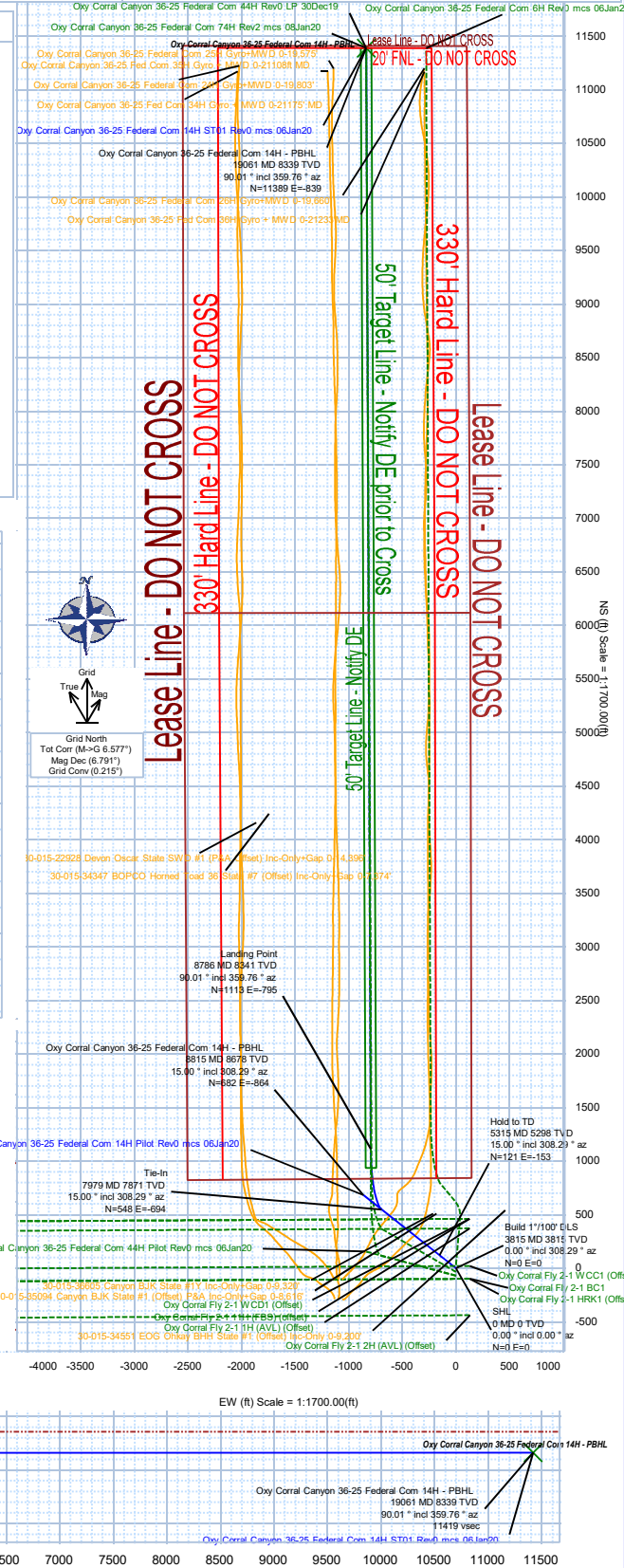
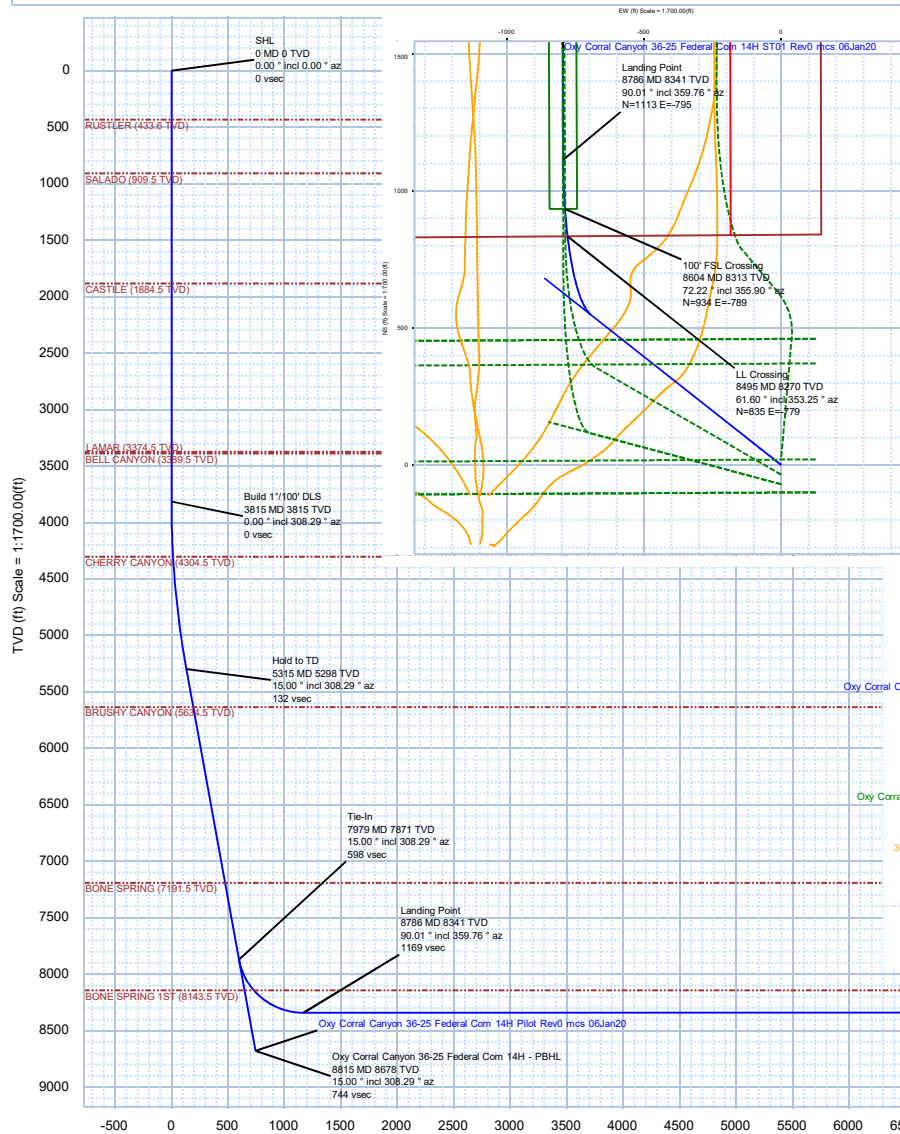
Lat: N 32 9 51.38 Northing: 423731.2RUS Grid Conv: 0.2147°
 Lon: W 103 55 47.79 Easting: 666161.5RUS Scale Fact: 0.99992694

Miscellaneous

Oxy Corral Canyon 36-25 Federal Com 14H - PBHL
 Slot: Oxy Corral Canyon 36-25 Federal Com 14H
 Plan: Oxy Corral Canyon 36-25 Federal Com 14H ST01 Rev0 mcs 06Jan20
 TVD Ref: RKB = 25'(3169.1ft above MSL)

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)	DLS
RUSTLER	433.60	0.00	308.29	433.60	0.00	0.00	0.00	0.00
SALADO	909.50	0.00	308.29	909.50	0.00	0.00	0.00	0.00
CASTILE	1884.50	0.00	308.29	1884.50	0.00	0.00	0.00	0.00
LAMAR	3374.50	0.00	308.29	3374.50	0.00	0.00	0.00	0.00
BELL CANYON	3389.50	0.00	308.29	3389.50	0.00	0.00	0.00	0.00
CHERRY CANYON	4305.10	4.90	308.29	4304.50	14.15	12.98	-16.44	1.00
Tie-In	7978.58	15.00	308.29	7870.74	597.65	548.14	-694.32	
BONE SPRING 1ST	8289.43	41.78	346.19	8143.50	730.19	676.80	-752.04	10.00
LL Crossing	8495.00	61.60	353.25	8270.41	889.75	834.78	-779.32	10.00
100' FSL Crossing	8604.00	72.22	355.90	8313.11	989.84	934.45	-788.69	10.00
Landing Point	8785.91	90.01	359.76	8341.10	1168.69	1113.30	-795.31	10.00
Oxy Corral Canyon 36-25 Federal Com 14H - PBHL	19061.36	90.01	359.76	8339.10	11419.49	11388.65	-838.56	0.00
BRUSHY CANYON	NaN			5634.50				
BONE SPRING	NaN			7191.50				



Vertical Section (ft) Azim = 355.79° Scale = 1:1700.00(ft) Origin = 0N-S, 0E-W

Oxy USA Inc. - CORRAL CANYON 36_25 FED COM 14H

1. Geologic Formations

TVD of target	8341'	Pilot Hole Depth	8814'
MD at TD:	19061'	Deepest Expected fresh water:	435'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	435	
Salado	910	Salt
Castile	1,886	Salt
Lamar/Delaware	3,375	Oil/Gas/Brine
Bell Canyon	3,391	Oil/Gas/Brine
Cherry Canyon	4,306	Oil/Gas/Brine
Brushy Canyon	5,636	Losses
Bone Spring	7,192	Oil/Gas
1st Bone Spring (Lateral)	8,145	Oil/Gas
2nd Bone Spring (Pilot)	8,460	Oil/Gas

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

2. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	Buoyant	Buoyant
	From (ft)	To (ft)							Body SF Tension	Joint SF Tension
17.5	0	500	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	7304	9.625	40	L-80 HC	BTC	1.125	1.2	1.4	1.4
8.5	0	8447	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
8.5	8447	19061	4.5	13.5	P-110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

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 cancellation 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 FED COM 14H

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face 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
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 rd 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 nd 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?	
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)	H2O (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	534	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	697	9.6	3.391	15.39	12:00	Class H Cement, Retarder, Dispersant, Salt
Intermediate (Tail)	217	13.2	1.60	7.620	11:54	Class H Cement, Retarder, Dispersant, Salt
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	2709	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	500	100%
Intermediate (Lead)	0	6304	20%
Intermediate (Tail)	6304	7304	5%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	6804	19061	10%

Oxy requests a variance to cement the 9.625” intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy USA Inc. - CORRAL CANYON 36_25 FED COM 14H

Pilot Hole Cementing specs:

Pilot hole depth: 8814'

KOP: 7979' (Open Hole)

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type
8,314	8,814	10%	210	16.4	1.032	4.13	NeoCem TM
7,814	8,314	10%	228	17.5	0.952	3.51	Class H Cement, Retarder

Note: The first plug is designed to isolate the Pilot Hole from the KOP. The second plug is designed to provide a strong foundation for sidetracking at the KOP.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12.25" Hole	13-5/8"	3M	Annular	✓	70% of working pressure
		3M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		
8.5" Hole (Pilot and Lateral)	13-5/8"	3M	Annular	✓	70% of working pressure
		3M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		

*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.

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.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- 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

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	500	Water-Based Mud	8.6-8.8	40-60	N/C
500	7304	Saturated Brine-Based or Oil-Based Mud	8.0-10.0	35-45	N/C
7304	8814 (Pilot), 19061 (Lateral)	Water-Based or Oil-Based Mud	8.0-9.6	38-50	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
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6. Logging and Testing Procedures

Logging, 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

Additional 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	4321 psi (Pilot), 4164 psi (Lateral)
Abnormal Temperature	No
BH Temperature at deepest TVD	149°F (Pilot) 147°F (Lateral)

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. 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.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total estimated cuttings volume: 2023 bbls (Pilot and Lateral).

Attachments

- x Directional Plan
- x H2S Contingency Plan
- x Flex III Attachments
- x Spudder Rig Attachment
- x Premium Connection Specs

Oxy USA Inc. - CORRAL CANYON 36_25 FED COM 14H

9. Company Personnel

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
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



Oxy Corral Canyon 36-25 Federal Com 14H Pilot Rev0 mcs 06Jan20
Proposal Geodetic Report
(Def Plan)



Report Date:	January 07, 2020 - 04:32 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	308.290 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Corral Canyon 36-25 Federal Com 14H / Oxy Corral Canyon 36-25 Federal Com 14H	TVD Reference Datum:	RKB = 25'
Well:	Oxy Corral Canyon 36-25 Federal Com 14H	TVD Reference Elevation:	3169.100 ft above MSL
Borehole:	Pilot Hole	Seabed / Ground Elevation:	3144.100 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.787 °
Survey Name:	Oxy Corral Canyon 36-25 Federal Com 14H Pilot Rev0 mcs 06Jan20	Total Gravity Field Strength:	998.4486mgn (9.80665 Based)
Survey Date:	January 06, 2020	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	15.000 ° / 1100.976 ft / 4.225 / 0.127	Total Magnetic Field Strength:	47817.275 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.844 °
Location Lat / Long:	N 32° 9' 51.37981", W 103° 55' 47.78525"	Declination Date:	January 06, 2020
Location Grid N/E Y/X:	N 423731.200 ftUS, E 666161.500 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.2147 °	North Reference:	Grid North
Grid Scale Factor:	0.99992694	Grid Convergence Used:	0.2147 °
Version / Patch:	2.10.782.0	Total Corr Mag North->Grid North:	6.5725 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	100.00	0.00	308.29	100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	200.00	0.00	308.29	200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	300.00	0.00	308.29	300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	400.00	0.00	308.29	400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	500.00	0.00	308.29	500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	600.00	0.00	308.29	600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	700.00	0.00	308.29	700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	800.00	0.00	308.29	800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	900.00	0.00	308.29	900.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1000.00	0.00	308.29	1000.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1100.00	0.00	308.29	1100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1200.00	0.00	308.29	1200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1300.00	0.00	308.29	1300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1400.00	0.00	308.29	1400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1500.00	0.00	308.29	1500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1600.00	0.00	308.29	1600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1700.00	0.00	308.29	1700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1800.00	0.00	308.29	1800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1900.00	0.00	308.29	1900.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2000.00	0.00	308.29	2000.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2100.00	0.00	308.29	2100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2200.00	0.00	308.29	2200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2300.00	0.00	308.29	2300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2400.00	0.00	308.29	2400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2500.00	0.00	308.29	2500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2600.00	0.00	308.29	2600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2700.00	0.00	308.29	2700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2800.00	0.00	308.29	2800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2900.00	0.00	308.29	2900.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3000.00	0.00	308.29	3000.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3100.00	0.00	308.29	3100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3200.00	0.00	308.29	3200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3300.00	0.00	308.29	3300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3400.00	0.00	308.29	3400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3500.00	0.00	308.29	3500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3600.00	0.00	308.29	3600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3700.00	0.00	308.29	3700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
3800.00	0.00	308.29	3800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79		
Build 1"/100' DLS	3815.00	0.00	308.29	3815.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
Hold to TD	3900.00	0.85	308.29	3900.00	0.63	0.39	-0.49	1.00	423731.59	666161.01	N 32 9 51.38 W 103 55 47.79	
	4000.00	1.85	308.29	3999.97	2.99	1.85	-2.34	1.00	423733.05	666159.16	N 32 9 51.40 W 103 55 47.81	
	4100.00	2.85	308.29	4099.88	7.09	4.39	-5.56	1.00	423735.59	666155.94	N 32 9 51.42 W 103 55 47.85	
	4200.00	3.85	308.29	4199.71	12.93	8.01	-10.15	1.00	423739.21	666151.35	N 32 9 51.46 W 103 55 47.90	
	4300.00	4.85	308.29	4299.42	20.51	12.71	-16.10	1.00	423743.91	666145.40	N 32 9 51.51 W 103 55 47.97	
	4400.00	5.85	308.29	4398.98	29.84	18.49	-23.42	1.00	423749.69	666138.08	N 32 9 51.56 W 103 55 48.06	
	4500.00	6.85	308.29	4498.37	40.90	25.34	-32.10	1.00	423756.54	666129.40	N 32 9 51.63 W 103 55 48.16	
	4600.00	7.85	308.29	4597.55	53.69	33.27	-42.14	1.00	423764.47	666119.36	N 32 9 51.71 W 103 55 48.27	
	4700.00	8.85	308.29	4696.49	68.21	42.27	-53.54	1.00	423773.46	666107.96	N 32 9 51.80 W 103 55 48.41	
	4800.00	9.85	308.29	4795.16	84.46	52.33	-66.29	1.00	423783.53	666095.21	N 32 9 51.90 W 103 55 48.55	
	4900.00	10.85	308.29	4893.53	102.43	63.47	-80.39	1.00	423794.66	666081.11	N 32 9 52.01 W 103 55 48.72	
	5000.00	11.85	308.29	4991.57	122.11	75.66	-95.84	1.00	423806.86	666065.67	N 32 9 52.13 W 103 55 48.90	
	5100.00	12.85	308.29	5089.25	143.49	88.91	-112.63	1.00	423820.11	666048.88	N 32 9 52.26 W 103 55 49.09	
	5200.00	13.85	308.29	5186.55	166.58	103.22	-130.75	1.00	423834.41	666030.76	N 32 9 52.41 W 103 55 49.30	
	5300.00	14.85	308.29	5283.43	191.37	118.58	-150.20	1.00	423849.77	666011.31	N 32 9 52.56 W 103 55 49.53	
	5315.01	15.00	308.29	5297.94	195.23	120.98	-153.24	1.00	423852.17	666008.28	N 32 9 52.58 W 103 55 49.56	
	5400.00	15.00	308.29	5380.03	217.23	134.60	-170.50	0.00	423865.79	665991.01	N 32 9 52.72 W 103 55 49.76	
	5500.00	15.00	308.29	5476.62	243.11	150.64	-190.82	0.00	423881.83	665970.70	N 32 9 52.88 W 103 55 50.00	
	5600.00	15.00	308.29	5573.21	268.99	166.68	-211.13	0.00	423897.87	665950.39	N 32 9 53.04 W 103 55 50.23	
	5700.00	15.00	308.29	5669.81	294.88	182.72	-231.44	0.00	423913.90	665930.07	N 32 9 53.20 W 103 55 50.47	
	5800.00	15.00	308.29	5766.40	320.76	198.76	-251.76	0.00	423929.94	665909.76	N 32 9 53.36 W 103 55 50.71	
	5900.00	15.00	308.29	5862.99	346.64	214.79	-272.07	0.00	423945.98	665889.45	N 32 9 53.52 W 103 55 50.94	
	6000.00	15.00	308.29	5959.58	372.52	230.83	-292.39	0.00	423962.01	665869.13	N 32 9 53.67 W 103 55 51.18	
	6100.00	15.00	308.29	6056.18	398.41	246.87	-312.70	0.00	423978.05	665848.82	N 32 9 53.83 W 103 55 51.41	
	6200.00	15.00	308.29	6152.77	424.29	262.91	-333.02	0.00	423994.09	665828.51	N 32 9 53.99 W 103 55 51.65	
	6300.00	15.00	308.29	6249.36	450.17	278.94	-353.33	0.00	424010.12	665808.19	N 32 9 54.15 W 103 55 51.88	
	6400.00	15.00	308.29	6345.95	476.05	294.98	-373.65	0.00	424026.16	665787.88	N 32 9 54.31 W 103 55 52.12	
	6500.00	15.00	308.29	6442.55	501.93	311.02	-393.96	0.00	424042.20	665767.57	N 32 9 54.47 W 103 55 52.35	
	6600.00	15.00	308.29	6539.14	527.82	327.06	-414.28	0.00	424058.23	665747.26	N 32 9 54.63 W 103 55 52.59	
	6700.00	15.00	308.29	6635.73	553.70	343.09	-434.59	0.00	424074.27	665726.94	N 32 9 54.79 W 103 55 52.83	
	6800.00	15.00	308.29	6732.32	579.58	359.13	-454.90	0.00	424090.30	665706.6		

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")		Longitude (E/W ° ' ")
Oxy Corral Canyon 36-25 Federal Com 14H - PBHL	7300.00	15.00	308.29	7215.29	708.99	439.32	-556.48	0.00	424170.49	665605.07	N	32	9 55.75 W 103 55 54.24
	7400.00	15.00	308.29	7311.88	734.87	455.36	-576.79	0.00	424186.52	665584.75	N	32	9 55.91 W 103 55 54.48
	7500.00	15.00	308.29	7408.47	760.76	471.40	-597.11	0.00	424202.56	665564.44	N	32	9 56.07 W 103 55 54.71
	7600.00	15.00	308.29	7505.06	786.64	487.43	-617.42	0.00	424218.60	665544.13	N	32	9 56.23 W 103 55 54.95
	7700.00	15.00	308.29	7601.66	812.52	503.47	-637.73	0.00	424234.63	665523.81	N	32	9 56.39 W 103 55 55.18
	7800.00	15.00	308.29	7698.25	838.40	519.51	-658.05	0.00	424250.67	665503.50	N	32	9 56.54 W 103 55 55.42
	7900.00	15.00	308.29	7794.84	864.28	535.55	-678.36	0.00	424266.71	665483.19	N	32	9 56.70 W 103 55 55.65
	8000.00	15.00	308.29	7891.43	890.17	551.58	-698.68	0.00	424282.74	665462.87	N	32	9 56.86 W 103 55 55.89
	8100.00	15.00	308.29	7988.03	916.05	567.62	-718.99	0.00	424298.78	665442.56	N	32	9 57.02 W 103 55 56.12
	8200.00	15.00	308.29	8084.62	941.93	583.66	-739.31	0.00	424314.81	665422.25	N	32	9 57.18 W 103 55 56.36
	8300.00	15.00	308.29	8181.21	967.81	599.70	-759.62	0.00	424330.85	665401.94	N	32	9 57.34 W 103 55 56.60
	8400.00	15.00	308.29	8277.80	993.69	615.73	-779.94	0.00	424346.89	665381.62	N	32	9 57.50 W 103 55 56.83
	8500.00	15.00	308.29	8374.40	1019.58	631.77	-800.25	0.00	424362.92	665361.31	N	32	9 57.66 W 103 55 57.07
	8600.00	15.00	308.29	8470.99	1045.46	647.81	-820.57	0.00	424378.96	665341.00	N	32	9 57.82 W 103 55 57.30
	8700.00	15.00	308.29	8567.58	1071.34	663.85	-840.88	0.00	424395.00	665320.68	N	32	9 57.98 W 103 55 57.54
	8800.00	15.00	308.29	8664.17	1097.22	679.88	-861.19	0.00	424411.03	665300.37	N	32	9 58.14 W 103 55 57.77
	8814.50	15.00	308.29	8678.18	1100.98	682.21	-864.14	0.00	424413.36	665297.42	N	32	9 58.16 W 103 55 57.81

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	25.000	1/100.000	26.400	26.400		A010Mb_MWD+IFR1+SAG+MS- Depth Only	Pilot Hole / Oxy Corral Canyon 36- 25 Federal Com 14H Pilot Rev0 mcs 06Jan20
	1	25.000	8814.501	1/100.000	26.400	26.400		A010Mb_MWD+IFR1+SAG+MS	Pilot Hole / Oxy Corral Canyon 36- 25 Federal Com 14H Pilot Rev0 mcs 06Jan20



Oxy Corral Canyon 36-25 Federal Com 14H ST01 Rev0 mcs 06Jan20
Proposal Geodetic Report
(Def Plan)

Report Date:	January 07, 2020 - 04:51 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	355.789 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Oxy Corral Canyon 36-25 Federal Com 14H / Oxy Corral Canyon 36-25 Federal Com 14H	TVD Reference Datum:	RKB = 25'
Well:	Oxy Corral Canyon 36-25 Federal Com 14H	TVD Reference Elevation:	3169.100 ft above MSL
Borehole:	ST01	Seabed / Ground Elevation:	3144.100 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.791 °
Survey Name:	Oxy Corral Canyon 36-25 Federal Com 14H ST01 Rev0 mcs 06Jan20	Total Gravity Field Strength:	998.4486mgn (9.80665 Based)
Survey Date:	December 22, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	95.733 ° / 11742.512 ft / 6.410 / 1.408	Total Magnetic Field Strength:	47821.717 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.846 °
Location Lat / Long:	N 32° 9' 51.37981", W 103° 55' 47.78525"	Declination Date:	December 22, 2019
Location Grid N/E Y/X:	N 423731.200 ftUS, E 666161.500 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.2147 °	North Reference:	Grid North
Grid Scale Factor:	0.99992694	Grid Convergence Used:	0.2147 °
Version / Patch:	2.10.782.0	Total Corr Mag North->Grid North:	6.5767 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	100.00	0.00	308.29	100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	200.00	0.00	308.29	200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	300.00	0.00	308.29	300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	400.00	0.00	308.29	400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	500.00	0.00	308.29	500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	600.00	0.00	308.29	600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	700.00	0.00	308.29	700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	800.00	0.00	308.29	800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	900.00	0.00	308.29	900.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1000.00	0.00	308.29	1000.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1100.00	0.00	308.29	1100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1200.00	0.00	308.29	1200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1300.00	0.00	308.29	1300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1400.00	0.00	308.29	1400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1500.00	0.00	308.29	1500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1600.00	0.00	308.29	1600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1700.00	0.00	308.29	1700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1800.00	0.00	308.29	1800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	1900.00	0.00	308.29	1900.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2000.00	0.00	308.29	2000.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2100.00	0.00	308.29	2100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2200.00	0.00	308.29	2200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2300.00	0.00	308.29	2300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2400.00	0.00	308.29	2400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2500.00	0.00	308.29	2500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2600.00	0.00	308.29	2600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2700.00	0.00	308.29	2700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2800.00	0.00	308.29	2800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	2900.00	0.00	308.29	2900.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3000.00	0.00	308.29	3000.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3100.00	0.00	308.29	3100.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3200.00	0.00	308.29	3200.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3300.00	0.00	308.29	3300.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3400.00	0.00	308.29	3400.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3500.00	0.00	308.29	3500.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3600.00	0.00	308.29	3600.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3700.00	0.00	308.29	3700.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
	3800.00	0.00	308.29	3800.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
Build 1"/100' DLS	3815.00	0.00	308.29	3815.00	0.00	0.00	0.00	0.00	423731.20	666161.50	N 32 9 51.38 W 103 55 47.79	
Hold to TD	3900.00	0.85	308.29	3900.00	0.43	0.39	-0.49	1.00	423731.59	666161.01	N 32 9 51.38 W 103 55 47.79	
	4000.00	1.85	308.29	3999.97	2.02	1.85	-2.34	1.00	423733.05	666159.16	N 32 9 51.40 W 103 55 47.81	
	4100.00	2.85	308.29	4099.88	4.79	4.39	-5.56	1.00	423735.59	666155.94	N 32 9 51.42 W 103 55 47.85	
	4200.00	3.85	308.29	4199.71	8.74	8.01	-10.15	1.00	423739.21	666151.35	N 32 9 51.46 W 103 55 47.90	
	4300.00	4.85	308.29	4299.42	13.86	12.71	-16.10	1.00	423743.91	666145.40	N 32 9 51.51 W 103 55 47.97	
	4400.00	5.85	308.29	4398.98	20.16	18.49	-23.42	1.00	423749.69	666138.08	N 32 9 51.56 W 103 55 48.06	
	4500.00	6.85	308.29	4498.37	27.63	25.34	-32.10	1.00	423756.54	666129.40	N 32 9 51.63 W 103 55 48.16	
	4600.00	7.85	308.29	4597.55	36.27	33.27	-42.14	1.00	423764.47	666119.36	N 32 9 51.71 W 103 55 48.27	
	4700.00	8.85	308.29	4696.49	46.09	42.27	-53.54	1.00	423773.46	666107.96	N 32 9 51.80 W 103 55 48.41	
	4800.00	9.85	308.29	4795.16	57.06	52.33	-66.29	1.00	423783.53	666095.21	N 32 9 51.90 W 103 55 48.55	
	4900.00	10.85	308.29	4893.53	69.20	63.47	-80.39	1.00	423794.66	666081.11	N 32 9 52.01 W 103 55 48.72	
	5000.00	11.85	308.29	4991.57	82.50	75.66	-95.84	1.00	423806.86	666065.67	N 32 9 52.13 W 103 55 48.90	
	5100.00	12.85	308.29	5089.25	96.94	88.91	-112.63	1.00	423820.11	666048.88	N 32 9 52.26 W 103 55 49.09	
	5200.00	13.85	308.29	5186.55	112.54	103.22	-130.75	1.00	423834.41	666030.76	N 32 9 52.41 W 103 55 49.30	
	5300.00	14.85	308.29	5283.43	129.29	118.58	-150.20	1.00	423849.77	666011.31	N 32 9 52.56 W 103 55 49.53	
	5315.01	15.00	308.29	5297.94	131.90	120.98	-153.24	1.00	423852.17	666008.28	N 32 9 52.58 W 103 55 49.56	
	5400.00	15.00	308.29	5380.03	146.76	134.60	-170.50	0.00	423865.79	665991.01	N 32 9 52.72 W 103 55 49.76	
	5500.00	15.00	308.29	5476.62	164.25	150.64	-190.82	0.00	423881.83	665970.70	N 32 9 52.88 W 103 55 50.00	
	5600.00	15.00	308.29	5573.21	181.73	166.68	-211.13	0.00	423897.87	665950.39	N 32 9 53.04 W 103 55 50.23	
	5700.00	15.00	308.29	5669.81	199.22	182.72	-231.44	0.00	423913.90	665930.07	N 32 9 53.20 W 103 55 50.47	
	5800.00	15.00	308.29	5766.40	216.71	198.76	-251.76	0.00	423929.94	665909.76	N 32 9 53.36 W 103 55 50.71	
	5900.00	15.00	308.29	5862.99	234.19	214.79	-272.07	0.00	423945.98	665889.45	N 32 9 53.52 W 103 55 50.94	
	6000.00	15.00	308.29	5959.58	251.68	230.83	-292.39	0.00	423962.01	665869.13	N 32 9 53.67 W 103 55 51.18	
	6100.00	15.00	308.29	6056.18	269.16	246.87	-312.70	0.00	423978.05	665848.82	N 32 9 53.83 W 103 55 51.41	
	6200.00	15.00	308.29	6152.77	286.65	262.91	-333.02	0.00	423994.09	665828.51	N 32 9 53.99 W 103 55 51.65	
	6300.00	15.00	308.29	6249.36	304.14	278.94	-353.33	0.00	424010.12	665808.20	N 32 9 54.15 W 103 55 51.88	
	6400.00	15.00	308.29	6345.95	321.62	294.98	-373.65	0.00	424026.16	665787.88	N 32 9 54.31 W 103 55 52.12	
	6500.00	15.00	308.29	6442.55	339.11	311.02	-393.96	0.00	424042.19	665767.57	N 32 9 54.47 W 103 55 52.35	
	6600.00	15.00	308.29	6539.14	356.59	327.06	-414.27	0.00	424058.23	665747.26	N 32 9 54.63 W 103 55 52.59	
	6700.00	15.00	308.29	6635.73	374.08	343.09	-434.59	0.00	424074.27	665726.94	N 32 9 54.79 W 103 55 52.83	
	6800.00	15.00	308.29	6732.32	391.57	359.13	-454.90	0.00	424090.30	665706.63	N 32	

Comments	MD	Incl	Azim	Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
	(ft)	(°)	(°)		(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S ° ' ")	(E/W ° ' ")
Tie-In	7300.00	15.00	308.29		7215.29	479.00	439.32	-556.48	0.00	424170.49	665605.07	N 32 9 55.75	W 103 55 54.24
	7400.00	15.00	308.29		7311.88	496.48	455.36	-576.79	0.00	424186.52	665584.75	N 32 9 55.91	W 103 55 54.48
	7500.00	15.00	308.29		7408.47	513.97	471.39	-597.10	0.00	424202.56	665564.44	N 32 9 56.07	W 103 55 54.71
	7600.00	15.00	308.29		7505.06	531.45	487.43	-617.42	0.00	424218.59	665544.13	N 32 9 56.23	W 103 55 54.95
	7700.00	15.00	308.29		7601.66	548.94	503.47	-637.73	0.00	424234.63	665523.81	N 32 9 56.39	W 103 55 55.18
	7800.00	15.00	308.29		7698.25	566.43	519.51	-658.05	0.00	424250.67	665503.50	N 32 9 56.54	W 103 55 55.42
	7900.00	15.00	308.29		7794.84	583.91	535.54	-678.36	0.00	424266.70	665483.19	N 32 9 56.70	W 103 55 55.65
	7978.58	15.00	308.29		7870.74	597.65	548.15	-694.33	0.00	424279.31	665467.23	N 32 9 56.83	W 103 55 55.84
	8000.00	16.39	314.32		7891.37	601.79	551.98	-698.66	10.00	424283.13	665462.89	N 32 9 56.87	W 103 55 55.89
	8100.00	24.34	332.15		7985.13	631.32	580.13	-718.44	10.00	424311.28	665443.12	N 32 9 57.15	W 103 55 56.12
	8200.00	33.36	341.19		8072.67	676.92	624.49	-736.97	10.00	424355.64	665424.58	N 32 9 57.59	W 103 55 56.33
	8300.00	42.78	346.67		8151.32	737.21	683.71	-753.71	10.00	424414.86	665407.84	N 32 9 58.17	W 103 55 56.52
	8400.00	52.39	350.46		8218.71	810.37	756.00	-768.14	10.00	424487.14	665393.41	N 32 9 58.89	W 103 55 56.69
	8500.00	62.08	353.38		8272.77	894.16	839.16	-779.83	10.00	424570.30	665381.73	N 32 9 59.71	W 103 55 56.82
Landing Point	8600.00	71.83	355.81		8311.87	986.04	930.66	-788.41	10.00	424661.79	665373.15	N 32 10 0.62	W 103 55 56.92
	8700.00	81.60	357.98		8334.82	1083.22	1027.72	-793.64	10.00	424758.84	665367.92	N 32 10 1.58	W 103 55 56.97
	8785.91	90.01	359.76		8341.10	1168.69	1113.30	-795.32	10.00	424844.41	665366.24	N 32 10 2.43	W 103 55 56.99
	8800.00	90.01	359.76		8341.10	1182.75	1127.39	-795.37	0.00	424858.51	665366.19	N 32 10 2.56	W 103 55 56.99
	8900.00	90.01	359.76		8341.08	1282.51	1227.39	-795.80	0.00	424958.50	665365.76	N 32 10 3.55	W 103 55 56.99
	9000.00	90.01	359.76		8341.06	1382.27	1327.39	-796.22	0.00	425058.49	665365.34	N 32 10 4.54	W 103 55 56.99
	9100.00	90.01	359.76		8341.04	1482.03	1427.39	-796.64	0.00	425158.48	665364.92	N 32 10 5.53	W 103 55 56.99
	9200.00	90.01	359.76		8341.02	1581.79	1527.39	-797.06	0.00	425258.47	665364.50	N 32 10 6.52	W 103 55 56.99
	9300.00	90.01	359.76		8341.00	1681.55	1627.39	-797.48	0.00	425358.46	665364.08	N 32 10 7.51	W 103 55 56.99
	9400.00	90.01	359.76		8340.98	1781.31	1727.38	-797.90	0.00	425458.46	665363.66	N 32 10 8.50	W 103 55 56.99
	9500.00	90.01	359.76		8340.96	1881.07	1827.38	-798.32	0.00	425558.45	665363.24	N 32 10 9.49	W 103 55 56.99
	9600.00	90.01	359.76		8340.94	1980.83	1927.38	-798.74	0.00	425658.44	665362.82	N 32 10 10.48	W 103 55 56.99
	9700.00	90.01	359.76		8340.92	2080.59	2027.38	-799.16	0.00	425758.43	665362.40	N 32 10 11.47	W 103 55 56.99
	9800.00	90.01	359.76		8340.90	2180.35	2127.38	-799.58	0.00	425858.42	665361.98	N 32 10 12.46	W 103 55 56.99
	9900.00	90.01	359.76		8340.88	2280.11	2227.38	-800.00	0.00	425958.41	665361.56	N 32 10 13.45	W 103 55 57.00
	10000.00	90.01	359.76		8340.86	2379.87	2327.38	-800.43	0.00	426058.40	665361.13	N 32 10 14.44	W 103 55 57.00
	10100.00	90.01	359.76		8340.84	2479.63	2427.38	-800.85	0.00	426158.40	665360.71	N 32 10 15.43	W 103 55 57.00
	10200.00	90.01	359.76		8340.82	2579.39	2527.38	-801.27	0.00	426258.39	665360.29	N 32 10 16.42	W 103 55 57.00
	10300.00	90.01	359.76		8340.80	2679.15	2627.38	-801.69	0.00	426358.38	665359.87	N 32 10 17.41	W 103 55 57.00
	10400.00	90.01	359.76		8340.78	2778.91	2727.38	-802.11	0.00	426458.37	665359.45	N 32 10 18.40	W 103 55 57.00
	10500.00	90.01	359.76		8340.76	2878.67	2827.38	-802.53	0.00	426558.36	665359.03	N 32 10 19.39	W 103 55 57.00
	10600.00	90.01	359.76		8340.75	2978.43	2927.37	-802.95	0.00	426658.35	665358.61	N 32 10 20.38	W 103 55 57.00
	10700.00	90.01	359.76		8340.73	3078.19	3027.37	-803.37	0.00	426758.35	665358.19	N 32 10 21.37	W 103 55 57.00
	10800.00	90.01	359.76		8340.71	3177.95	3127.37	-803.79	0.00	426858.34	665357.77	N 32 10 22.36	W 103 55 57.00
	10900.00	90.01	359.76		8340.69	3277.71	3227.37	-804.21	0.00	426958.33	665357.35	N 32 10 23.34	W 103 55 57.00
	11000.00	90.01	359.76		8340.67	3377.47	3327.37	-804.63	0.00	427058.32	665356.93	N 32 10 24.33	W 103 55 57.00
	11100.00	90.01	359.76		8340.65	3477.23	3427.37	-805.06	0.00	427158.31	665356.51	N 32 10 25.32	W 103 55 57.00
	11200.00	90.01	359.76		8340.63	3576.99	3527.37	-805.48	0.00	427258.30	665356.08	N 32 10 26.31	W 103 55 57.00
	11300.00	90.01	359.76		8340.61	3676.75	3627.37	-805.90	0.00	427358.30	665355.66	N 32 10 27.30	W 103 55 57.00
	11400.00	90.01	359.76		8340.59	3776.51	3727.37	-806.32	0.00	427458.29	665355.24	N 32 10 28.29	W 103 55 57.00
	11500.00	90.01	359.76		8340.57	3876.27	3827.37	-806.74	0.00	427558.28	665354.82	N 32 10 29.28	W 103 55 57.00
	11600.00	90.01	359.76		8340.55	3976.03	3927.37	-807.16	0.00	427658.27	665354.40	N 32 10 30.27	W 103 55 57.00
	11700.00	90.01	359.76		8340.53	4075.79	4027.36	-807.58	0.00	427758.26	665353.98	N 32 10 31.26	W 103 55 57.01
	11800.00	90.01	359.76		8340.51	4175.55	4127.36	-808.00	0.00	427858.25	665353.56	N 32 10 32.25	W 103 55 57.01
	11900.00	90.01	359.76		8340.49	4275.31	4227.36	-808.42	0.00	427958.25	665353.14	N 32 10 33.24	W 103 55 57.01
	12000.00												

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")		Longitude (E/W ° ' ")
Oxy Corral Canyon 36-25 Federal Com 14H - PBHL	18000.00	90.01	359.76	8339.31	10360.68	10327.31	-834.10	0.00	434057.73	665327.47	N	32 11 33.60	W 103 55 57.04
	18100.00	90.01	359.76	8339.29	10460.44	10427.31	-834.52	0.00	434157.72	665327.04	N	32 11 34.59	W 103 55 57.04
	18200.00	90.01	359.76	8339.27	10560.20	10527.31	-834.94	0.00	434257.72	665326.62	N	32 11 35.58	W 103 55 57.04
	18300.00	90.01	359.76	8339.25	10659.96	10627.31	-835.36	0.00	434357.71	665326.20	N	32 11 36.57	W 103 55 57.04
	18400.00	90.01	359.76	8339.23	10759.72	10727.30	-835.78	0.00	434457.70	665325.78	N	32 11 37.56	W 103 55 57.04
	18500.00	90.01	359.76	8339.21	10859.48	10827.30	-836.20	0.00	434557.69	665325.36	N	32 11 38.55	W 103 55 57.04
	18600.00	90.01	359.76	8339.19	10959.24	10927.30	-836.62	0.00	434657.68	665324.94	N	32 11 39.54	W 103 55 57.04
	18700.00	90.01	359.76	8339.17	11059.00	11027.30	-837.04	0.00	434757.67	665324.52	N	32 11 40.53	W 103 55 57.04
	18800.00	90.01	359.76	8339.15	11158.76	11127.30	-837.46	0.00	434857.67	665324.10	N	32 11 41.52	W 103 55 57.05
	18900.00	90.01	359.76	8339.13	11258.52	11227.30	-837.89	0.00	434957.66	665323.68	N	32 11 42.51	W 103 55 57.05
	19000.00	90.01	359.76	8339.11	11358.28	11327.30	-838.31	0.00	435057.65	665323.26	N	32 11 43.50	W 103 55 57.05
Oxy Corral Canyon 36-25 Federal Com 14H - PBHL	19061.36	90.01	359.76	8339.10	11419.49	11388.66	-838.56	0.00	435119.00	665323.00	N	32 11 44.10	W 103 55 57.05

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	25.000	1/100.000	26.400	26.400		A010Mb_MWD+IFR1+SAG+MS- Depth Only	Pilot Hole / Oxy Corral Canyon 36- 25 Federal Com 14H Pilot Rev0 mcs 06Jan20
	1	25.000	7978.580	1/100.000	26.400	26.400		A010Mb_MWD+IFR1+SAG+MS	Pilot Hole / Oxy Corral Canyon 36- 25 Federal Com 14H Pilot Rev0 mcs 06Jan20
	1	7978.580	19061.358	1/100.000	26.400	26.400		A010Mb_MWD+IFR1+SAG+MS	ST01 / Oxy Corral Canyon 36-25 Federal Com 14H ST01 Rev0 mcs 06Jan20