

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-55408
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name CORRAL FLY 2 STATE
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		8. Well Number #072H
2. Name of Operator OXY USA INC.		9. OGRID Number 16696
3. Address of Operator 5 GREENWAY PLAZA, SUITE 110, HOUSTON TX 77046		10. Pool name or Wildcat PIERCE CROSSING; BONE SPRING, EAST
4. Well Location Unit Letter N : 1309 feet from the SOUTH line and 1361 feet from the WEST line Section 2 Township 25S Range 29E NMPM EDDY County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3034' GL		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

OXY USA INC. respectfully requests approval to amend the subject well APD. The bottom hole location is changing from 20' FSL 900' FEL P-2-22S-29E to 20' FSL 330' FEL P-2-22S-29E. The TVD, intermediate/prod csg depths are changing.

Spud Date:

Rig Release Date:

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

SIGNATURE Leslie T. Reeves TITLE REGULATORY MANAGER DATE 11/4/2024

Type or print name LESLIE REEVES E-mail address: LESLIE_REEVES@OXY.COM PHONE: 713-497-2492

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION INFORMATION

API Number 30-015-55408	Pool Code 96473	Pool Name PIERCE CROSSING; BONE SPRING, EAST
Property Code 336245	Property Name CORRAL FLY 2 STATE	Well Number 72H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3034.1'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL N	Section 2	Township 25S	Range 29E	Lot	Ft. from N/S 1309 SOUTH	Ft. from E/W 1361 WEST	Latitude (NAD 83) 32.155561°	Longitude (NAD 83) -103.959331°	County EDDY
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Bottom Hole Location

UL P	Section 2	Township 25S	Range 29E	Lot	Ft. from N/S 20 SOUTH	Ft. from E/W 330 EAST	Latitude (NAD 83) 32.151998°	Longitude (NAD 83) -103.947675°	County EDDY
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Dedicated Acres 519.04	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL M	Section 2	Township 25S	Range 29E	Lot	Ft. from N/S 50 SOUTH	Ft. from E/W 1320 WEST	Latitude (NAD 83) 32.152101°	Longitude (NAD 83) -103.959476°	County EDDY
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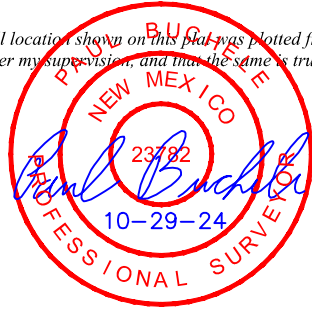
First Take Point (FTP)

UL M	Section 2	Township 25S	Range 29E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 1320 WEST	Latitude (NAD 83) 32.152238°	Longitude (NAD 83) -103.959475°	County EDDY
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Last Take Point (LTP)

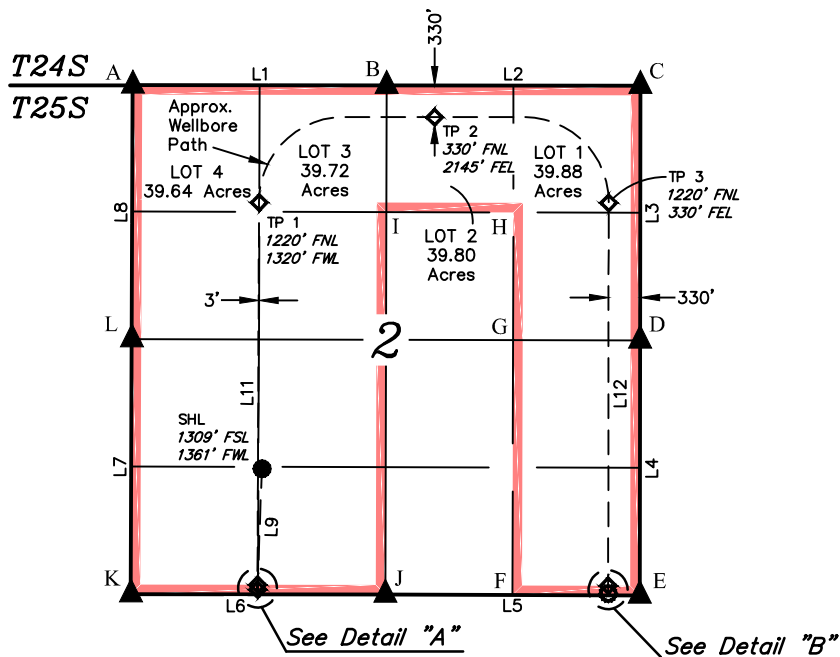
UL P	Section 2	Township 25S	Range 29E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 330 EAST	Latitude (NAD 83) 32.152218°	Longitude (NAD 83) -103.947675°	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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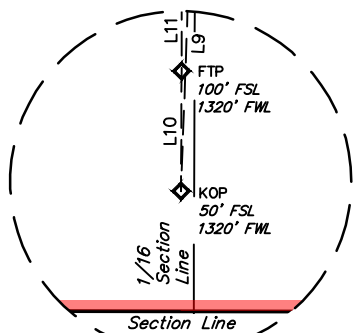
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Leslie T. Reeves</i> 11/4/2024 Signature _____ Date _____ LESLIE REEVES Printed Name _____ LESLIE_REEVES@OXY.COM Email Address _____	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor 23782 December 22, 2023 Certificate Number _____ Date of Survey _____
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Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

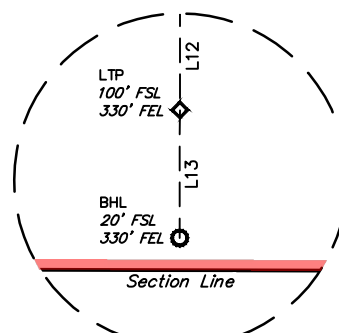
Property Name CORRAL FLY 2 STATE	Well Number 72H	Drawn By D.J.S. 01-05-24	Revised By REV. 4 D.M.C. 10-29-24 (WELLBORE MOVE)
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POINT	NAD 27 N.M. STATE PLANE, EAST ZONE		NAD 83 N.M. STATE PLANE, EAST ZONE	
	NORTHING	EASTING	NORTHING	EASTING
A	424458.36	614532.15	424516.88	655716.59
B	424467.92	617175.18	424526.43	658359.64
C	424476.21	619819.06	424534.72	661003.55
D	421823.77	619827.41	421882.22	661011.97
E	419168.12	619835.08	419226.52	661019.71
F	419166.58	618509.34	419224.98	659693.96
G	421821.60	618503.40	421880.06	659687.95
H	423149.49	618500.25	423207.97	659684.77
I	423147.66	617177.28	423206.15	658361.78
J	419165.04	617183.61	419223.44	658368.22
K	419159.38	614533.18	419217.79	655717.77
L	421815.11	614533.10	421873.58	655717.62



Detail "A"
No Scale

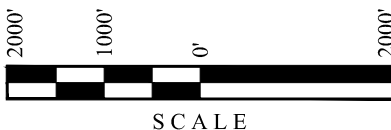


Detail "B"
No Scale

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°58'03"W	2643.62'
L2	N89°56'24"W	2644.46'
L3	N00°03'27"E	2653.06'
L4	N00°04'21"E	2656.26'
L5	N89°49'38"W	2652.05'
L6	N89°52'57"W	2651.01'
L7	N00°14'11"E	2656.34'
L8	N00°13'02"E	2643.85'
L9	S02°05'03"W	1259.70'
L10	N00°14'11"E	50.00'
L11	N00°13'46"E	3982.14'
L12	S00°04'02"W	3988.67'
L13	S00°04'21"W	80.00'



- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/TAKE POINTS/ DEFLECTION POINTS
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- = HORIZONTAL SPACING UNIT

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°09'20.02" (32.155561°)	
LONGITUDE = -103°57'33.59" (-103.959331°)	
NAD 27 (SURFACE HOLE LOCATION)	
LATITUDE = 32°09'19.57" (32.155437°)	
LONGITUDE = -103°57'31.84" (-103.958845°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 420529.38' E: 657078.03'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 420470.95' E: 615893.47'	

NAD 83 (KICK OFF POINT)	
LATITUDE = 32°09'07.56" (32.152101°)	
LONGITUDE = -103°57'34.11" (-103.959476°)	
NAD 27 (KICK OFF POINT)	
LATITUDE = 32°09'07.12" (32.151977°)	
LONGITUDE = -103°57'32.37" (-103.958990°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 419270.59' E: 657037.49'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 419212.19' E: 615852.90'	

NAD 83 (FIRST TAKE POINT)	
LATITUDE = 32°09'08.06" (32.152238°)	
LONGITUDE = -103°57'34.11" (-103.959475°)	
NAD 27 (FIRST TAKE POINT)	
LATITUDE = 32°09'07.61" (32.152115°)	
LONGITUDE = -103°57'32.36" (-103.958990°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 419320.58' E: 657037.49'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 419262.17' E: 615852.89'	

NAD 83 (TURN POINT 1)	
LATITUDE = 32°09'47.46" (32.163183°)	
LONGITUDE = -103°57'33.96" (-103.959433°)	
NAD 27 (TURN POINT 1)	
LATITUDE = 32°09'47.01" (32.163059°)	
LONGITUDE = -103°57'32.21" (-103.958947°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 423301.89' E: 657036.79'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 423243.40' E: 615852.30'	

NAD 83 (TURN POINT 2)	
LATITUDE = 32°09'56.26" (32.165629°)	
LONGITUDE = -103°57'12.71" (-103.953531°)	
NAD 27 (TURN POINT 2)	
LATITUDE = 32°09'55.82" (32.165505°)	
LONGITUDE = -103°57'10.96" (-103.953045°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 424198.06' E: 658860.05'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 424139.56' E: 617675.57'	

NAD 83 (TURN POINT 3)	
LATITUDE = 32°09'47.45" (32.163180°)	
LONGITUDE = -103°56'51.60" (-103.947667°)	
NAD 27 (TURN POINT 3)	
LATITUDE = 32°09'47.00" (32.163057°)	
LONGITUDE = -103°56'49.85" (-103.947182°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 423313.94' E: 660677.49'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 423255.46' E: 619492.97'	

NAD 83 (LAST TAKE POINT)	
LATITUDE = 32°09'07.99" (32.152218°)	
LONGITUDE = -103°56'51.63" (-103.947675°)	
NAD 27 (LAST TAKE POINT)	
LATITUDE = 32°09'07.54" (32.152095°)	
LONGITUDE = -103°56'49.88" (-103.947190°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 419326.12' E: 660689.49'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 419267.72' E: 619504.86'	

NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°09'07.19" (32.151998°)	
LONGITUDE = -103°56'51.63" (-103.947675°)	
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°09'06.75" (32.151875°)	
LONGITUDE = -103°56'49.88" (-103.947190°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 419246.13' E: 660689.72'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 419187.73' E: 619505.09'	

Oxy USA Inc. - CORRAL FLY 2 STATE 72H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	9415	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21977	Deepest Expected Fresh Water (ft):	324

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	324	324	
Salado	748	748	Salt
Castile	1626	1626	Salt
Delaware	3171	3171	Oil/Gas/Brine
Bell Canyon	3200	3200	Oil/Gas/Brine
Cherry Canyon	4062	4059	Oil/Gas/Brine
Brushy Canyon	5621	5573	Losses
Bone Spring	7037	6941	Oil/Gas
Bone Spring 1st	7966	7838	Oil/Gas
Bone Spring 2nd	8852	8696	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	688	0	688	10.75	45.5	J-55	BTC
Intermediate	9.875	0	9805	0	9322	7.625	26.4	L-80 HC	BTC
Production	6.75	0	21977	0	9415	5.5	20	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	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

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	576	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	528	1.68	13.2	5%	5,871	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	908	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	718	1.84	13.3	25%	9,305	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625” and/or 7.625” intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8” intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9322
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9415
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 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

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.	
	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 43 CFR part 3170 Subpart 3172.	
	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 43 CFR part 3170 Subpart 3172 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. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	688	0	688	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	688	9805	688	9322	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	9805	21977	9322	9415	Water-Based or Oil-Based Mud	9.5 - 12.5	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,

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	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6120 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	156°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

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 43 CFR part 3170 Subpart 3172. 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 2 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: 1548 bbls	

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Corral Fly 2 State

Corral Fly 2 State 72H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

31 October, 2024

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Corral Fly 2 State		
Site Position:		Northing:	420,529.32 usft
From:	Map	Easting:	657,048.04 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.155561
		Longitude:	-103.959428

Well	Corral Fly 2 State 72H					
Well Position	+N/-S	0.00 ft	Northing:	420,529.38 usf	Latitude:	32.155561
	+E/-W	0.00 ft	Easting:	657,078.03 usf	Longitude:	-103.959331
Position Uncertainty		2.00 ft	Wellhead Elevation:	ft	Ground Level:	3,034.10 ft
Grid Convergence:		0.20 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	5/29/2024	6.40	59.68	47,332.20000000

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	109.56

Plan Survey Tool Program	Date	10/31/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,976.68	Permitting Plan (Wellbore #1)	B005Mc_MWD+HRGM+SA
				MWD+HRGM+Sag+MSA

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,223.00	0.00	0.00	3,223.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,723.48	15.00	181.62	4,706.39	-195.28	-5.53	1.00	1.00	0.00	181.62	
8,755.35	15.00	181.62	8,600.78	-1,238.71	-35.06	0.00	0.00	0.00	0.00	
9,805.33	90.00	359.99	9,322.00	-685.27	-40.66	10.00	7.14	16.99	178.31	
13,263.33	90.00	359.99	9,322.00	2,772.73	-41.24	0.00	0.00	0.00	0.00	TP1 (Corral Fly 2
14,643.77	88.54	89.72	9,344.42	3,654.34	835.61	6.50	-0.11	6.50	91.46	
16,523.02	88.54	89.72	9,392.43	3,663.59	2,714.23	0.00	0.00	0.00	0.00	
17,909.31	90.00	179.83	9,415.00	2,784.78	3,599.74	6.50	0.11	6.50	90.00	TP3 (Corral Fly 2
21,977.46	90.00	179.83	9,415.00	-1,283.35	3,611.97	0.00	0.00	0.00	0.00	PBHL (Corral Fly 2

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
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	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,223.00	0.00	0.00	3,223.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.77	181.62	3,300.00	-0.52	-0.01	0.16	1.00	1.00	0.00
3,400.00	1.77	181.62	3,399.97	-2.73	-0.08	0.84	1.00	1.00	0.00
3,500.00	2.77	181.62	3,499.89	-6.69	-0.19	2.06	1.00	1.00	0.00
3,600.00	3.77	181.62	3,599.73	-12.39	-0.35	3.82	1.00	1.00	0.00
3,700.00	4.77	181.62	3,699.45	-19.84	-0.56	6.11	1.00	1.00	0.00
3,800.00	5.77	181.62	3,799.03	-29.02	-0.82	8.94	1.00	1.00	0.00
3,900.00	6.77	181.62	3,898.43	-39.93	-1.13	12.30	1.00	1.00	0.00
4,000.00	7.77	181.62	3,997.62	-52.58	-1.49	16.20	1.00	1.00	0.00
4,100.00	8.77	181.62	4,096.58	-66.96	-1.90	20.63	1.00	1.00	0.00
4,200.00	9.77	181.62	4,195.27	-83.06	-2.35	25.59	1.00	1.00	0.00
4,300.00	10.77	181.62	4,293.67	-100.88	-2.86	31.09	1.00	1.00	0.00
4,400.00	11.77	181.62	4,391.74	-120.42	-3.41	37.11	1.00	1.00	0.00
4,500.00	12.77	181.62	4,489.45	-141.66	-4.01	43.65	1.00	1.00	0.00
4,600.00	13.77	181.62	4,586.78	-164.61	-4.66	50.72	1.00	1.00	0.00
4,700.00	14.77	181.62	4,683.70	-189.25	-5.36	58.31	1.00	1.00	0.00
4,723.48	15.00	181.62	4,706.39	-195.28	-5.53	60.17	1.00	1.00	0.00
4,800.00	15.00	181.62	4,780.30	-215.08	-6.09	66.27	0.00	0.00	0.00
4,900.00	15.00	181.62	4,876.89	-240.96	-6.82	74.25	0.00	0.00	0.00
5,000.00	15.00	181.62	4,973.48	-266.84	-7.55	82.22	0.00	0.00	0.00
5,100.00	15.00	181.62	5,070.07	-292.72	-8.28	90.20	0.00	0.00	0.00
5,200.00	15.00	181.62	5,166.66	-318.60	-9.02	98.17	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
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)
5,300.00	15.00	181.62	5,263.25	-344.48	-9.75	106.14	0.00	0.00	0.00
5,400.00	15.00	181.62	5,359.84	-370.36	-10.48	114.12	0.00	0.00	0.00
5,500.00	15.00	181.62	5,456.43	-396.24	-11.21	122.09	0.00	0.00	0.00
5,600.00	15.00	181.62	5,553.02	-422.12	-11.95	130.07	0.00	0.00	0.00
5,700.00	15.00	181.62	5,649.61	-448.00	-12.68	138.04	0.00	0.00	0.00
5,800.00	15.00	181.62	5,746.20	-473.88	-13.41	146.02	0.00	0.00	0.00
5,900.00	15.00	181.62	5,842.79	-499.76	-14.14	153.99	0.00	0.00	0.00
6,000.00	15.00	181.62	5,939.38	-525.64	-14.88	161.96	0.00	0.00	0.00
6,100.00	15.00	181.62	6,035.97	-551.52	-15.61	169.94	0.00	0.00	0.00
6,200.00	15.00	181.62	6,132.56	-577.40	-16.34	177.91	0.00	0.00	0.00
6,300.00	15.00	181.62	6,229.15	-603.28	-17.07	185.89	0.00	0.00	0.00
6,400.00	15.00	181.62	6,325.74	-629.16	-17.81	193.86	0.00	0.00	0.00
6,500.00	15.00	181.62	6,422.34	-655.03	-18.54	201.84	0.00	0.00	0.00
6,600.00	15.00	181.62	6,518.93	-680.91	-19.27	209.81	0.00	0.00	0.00
6,700.00	15.00	181.62	6,615.52	-706.79	-20.00	217.78	0.00	0.00	0.00
6,800.00	15.00	181.62	6,712.11	-732.67	-20.74	225.76	0.00	0.00	0.00
6,900.00	15.00	181.62	6,808.70	-758.55	-21.47	233.73	0.00	0.00	0.00
7,000.00	15.00	181.62	6,905.29	-784.43	-22.20	241.71	0.00	0.00	0.00
7,100.00	15.00	181.62	7,001.88	-810.31	-22.93	249.68	0.00	0.00	0.00
7,200.00	15.00	181.62	7,098.47	-836.19	-23.67	257.66	0.00	0.00	0.00
7,300.00	15.00	181.62	7,195.06	-862.07	-24.40	265.63	0.00	0.00	0.00
7,400.00	15.00	181.62	7,291.65	-887.95	-25.13	273.60	0.00	0.00	0.00
7,500.00	15.00	181.62	7,388.24	-913.83	-25.86	281.58	0.00	0.00	0.00
7,600.00	15.00	181.62	7,484.83	-939.71	-26.60	289.55	0.00	0.00	0.00
7,700.00	15.00	181.62	7,581.42	-965.59	-27.33	297.53	0.00	0.00	0.00
7,800.00	15.00	181.62	7,678.01	-991.47	-28.06	305.50	0.00	0.00	0.00
7,900.00	15.00	181.62	7,774.60	-1,017.35	-28.79	313.48	0.00	0.00	0.00
8,000.00	15.00	181.62	7,871.19	-1,043.23	-29.53	321.45	0.00	0.00	0.00
8,100.00	15.00	181.62	7,967.78	-1,069.11	-30.26	329.43	0.00	0.00	0.00
8,200.00	15.00	181.62	8,064.37	-1,094.99	-30.99	337.40	0.00	0.00	0.00
8,300.00	15.00	181.62	8,160.96	-1,120.87	-31.72	345.37	0.00	0.00	0.00
8,400.00	15.00	181.62	8,257.55	-1,146.75	-32.46	353.35	0.00	0.00	0.00
8,500.00	15.00	181.62	8,354.14	-1,172.63	-33.19	361.32	0.00	0.00	0.00
8,600.00	15.00	181.62	8,450.73	-1,198.51	-33.92	369.30	0.00	0.00	0.00
8,700.00	15.00	181.62	8,547.32	-1,224.39	-34.65	377.27	0.00	0.00	0.00
8,755.35	15.00	181.62	8,600.78	-1,238.71	-35.06	381.68	0.00	0.00	0.00
8,800.00	10.54	182.34	8,644.32	-1,248.58	-35.39	384.68	10.00	-9.99	1.61
8,900.00	0.69	219.32	8,743.73	-1,258.21	-36.15	387.19	10.00	-9.85	36.98
9,000.00	9.48	357.37	8,843.29	-1,250.43	-36.91	383.87	10.00	8.79	138.05
9,100.00	19.47	358.75	8,940.00	-1,225.48	-37.65	374.81	10.00	9.99	1.38
9,200.00	29.47	359.22	9,030.90	-1,184.12	-38.35	360.31	10.00	10.00	0.46
9,300.00	39.47	359.46	9,113.24	-1,127.60	-38.99	340.78	10.00	10.00	0.24
9,400.00	49.47	359.62	9,184.51	-1,057.63	-39.54	316.83	10.00	10.00	0.16
9,500.00	59.47	359.73	9,242.55	-976.36	-40.00	289.19	10.00	10.00	0.12
9,600.00	69.47	359.83	9,285.60	-886.24	-40.34	258.70	10.00	10.00	0.09
9,700.00	79.47	359.91	9,312.35	-790.02	-40.56	226.27	10.00	10.00	0.08
9,800.00	89.47	359.99	9,321.98	-690.61	-40.65	192.91	10.00	10.00	0.08
9,805.33	90.00	359.99	9,322.00	-685.27	-40.66	191.12	10.00	10.00	0.08
9,900.00	90.00	359.99	9,322.00	-590.61	-40.67	159.41	0.00	0.00	0.00
10,000.00	90.00	359.99	9,322.00	-490.61	-40.69	125.92	0.00	0.00	0.00
10,100.00	90.00	359.99	9,322.00	-390.61	-40.71	92.42	0.00	0.00	0.00
10,200.00	90.00	359.99	9,322.00	-290.61	-40.72	58.92	0.00	0.00	0.00
10,300.00	90.00	359.99	9,322.00	-190.61	-40.74	25.43	0.00	0.00	0.00
10,400.00	90.00	359.99	9,322.00	-90.61	-40.76	-8.07	0.00	0.00	0.00
10,500.00	90.00	359.99	9,322.00	9.39	-40.77	-41.56	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
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)
10,600.00	90.00	359.99	9,322.00	109.39	-40.79	-75.06	0.00	0.00	0.00
10,700.00	90.00	359.99	9,322.00	209.39	-40.81	-108.56	0.00	0.00	0.00
10,800.00	90.00	359.99	9,322.00	309.39	-40.82	-142.05	0.00	0.00	0.00
10,900.00	90.00	359.99	9,322.00	409.39	-40.84	-175.55	0.00	0.00	0.00
11,000.00	90.00	359.99	9,322.00	509.39	-40.86	-209.04	0.00	0.00	0.00
11,100.00	90.00	359.99	9,322.00	609.39	-40.88	-242.54	0.00	0.00	0.00
11,200.00	90.00	359.99	9,322.00	709.39	-40.89	-276.04	0.00	0.00	0.00
11,300.00	90.00	359.99	9,322.00	809.39	-40.91	-309.53	0.00	0.00	0.00
11,400.00	90.00	359.99	9,322.00	909.39	-40.93	-343.03	0.00	0.00	0.00
11,500.00	90.00	359.99	9,322.00	1,009.39	-40.94	-376.52	0.00	0.00	0.00
11,600.00	90.00	359.99	9,322.00	1,109.39	-40.96	-410.02	0.00	0.00	0.00
11,700.00	90.00	359.99	9,322.00	1,209.39	-40.98	-443.52	0.00	0.00	0.00
11,800.00	90.00	359.99	9,322.00	1,309.39	-40.99	-477.01	0.00	0.00	0.00
11,900.00	90.00	359.99	9,322.00	1,409.39	-41.01	-510.51	0.00	0.00	0.00
12,000.00	90.00	359.99	9,322.00	1,509.39	-41.03	-544.00	0.00	0.00	0.00
12,100.00	90.00	359.99	9,322.00	1,609.39	-41.05	-577.50	0.00	0.00	0.00
12,200.00	90.00	359.99	9,322.00	1,709.39	-41.06	-611.00	0.00	0.00	0.00
12,300.00	90.00	359.99	9,322.00	1,809.39	-41.08	-644.49	0.00	0.00	0.00
12,400.00	90.00	359.99	9,322.00	1,909.39	-41.10	-677.99	0.00	0.00	0.00
12,500.00	90.00	359.99	9,322.00	2,009.39	-41.11	-711.48	0.00	0.00	0.00
12,600.00	90.00	359.99	9,322.00	2,109.39	-41.13	-744.98	0.00	0.00	0.00
12,700.00	90.00	359.99	9,322.00	2,209.39	-41.15	-778.48	0.00	0.00	0.00
12,800.00	90.00	359.99	9,322.00	2,309.39	-41.16	-811.97	0.00	0.00	0.00
12,900.00	90.00	359.99	9,322.00	2,409.39	-41.18	-845.47	0.00	0.00	0.00
13,000.00	90.00	359.99	9,322.00	2,509.39	-41.20	-878.96	0.00	0.00	0.00
13,100.00	90.00	359.99	9,322.00	2,609.39	-41.22	-912.46	0.00	0.00	0.00
13,200.00	90.00	359.99	9,322.00	2,709.39	-41.23	-945.96	0.00	0.00	0.00
13,263.33	90.00	359.99	9,322.00	2,772.73	-41.24	-967.17	0.00	0.00	0.00
13,300.00	89.94	2.37	9,322.02	2,809.38	-40.49	-978.73	6.50	-0.17	6.50
13,400.00	89.77	8.87	9,322.27	2,908.85	-30.70	-1,002.81	6.50	-0.17	6.50
13,500.00	89.61	15.37	9,322.81	3,006.56	-9.71	-1,015.75	6.50	-0.16	6.50
13,600.00	89.45	21.87	9,323.62	3,101.28	22.19	-1,017.39	6.50	-0.16	6.50
13,700.00	89.30	28.37	9,324.71	3,191.77	64.62	-1,007.72	6.50	-0.15	6.50
13,800.00	89.16	34.86	9,326.05	3,276.87	117.00	-986.84	6.50	-0.14	6.50
13,900.00	89.03	41.36	9,327.62	3,355.50	178.69	-955.05	6.50	-0.13	6.50
14,000.00	88.91	47.86	9,329.42	3,426.63	248.87	-912.73	6.50	-0.12	6.50
14,100.00	88.81	54.36	9,331.41	3,489.37	326.65	-860.44	6.50	-0.10	6.50
14,200.00	88.72	60.87	9,333.56	3,542.88	411.04	-798.84	6.50	-0.09	6.50
14,300.00	88.65	67.37	9,335.86	3,586.50	500.93	-728.74	6.50	-0.07	6.50
14,400.00	88.59	73.87	9,338.27	3,619.66	595.19	-651.02	6.50	-0.06	6.50
14,500.00	88.56	80.37	9,340.76	3,641.94	692.59	-566.70	6.50	-0.04	6.50
14,600.00	88.54	86.87	9,343.30	3,653.04	791.88	-476.85	6.50	-0.02	6.50
14,643.77	88.54	89.72	9,344.42	3,654.34	835.61	-436.08	6.50	0.00	6.50
14,700.00	88.54	89.72	9,345.85	3,654.62	891.83	-383.21	0.00	0.00	0.00
14,800.00	88.54	89.72	9,348.41	3,655.11	991.79	-289.17	0.00	0.00	0.00
14,900.00	88.54	89.72	9,350.96	3,655.60	1,091.76	-195.14	0.00	0.00	0.00
15,000.00	88.54	89.72	9,353.52	3,656.09	1,191.72	-101.11	0.00	0.00	0.00
15,100.00	88.54	89.72	9,356.07	3,656.59	1,291.69	-7.08	0.00	0.00	0.00
15,200.00	88.54	89.72	9,358.63	3,657.08	1,391.66	86.95	0.00	0.00	0.00
15,300.00	88.54	89.72	9,361.18	3,657.57	1,491.62	180.99	0.00	0.00	0.00
15,400.00	88.54	89.72	9,363.74	3,658.06	1,591.59	275.02	0.00	0.00	0.00
15,500.00	88.54	89.72	9,366.29	3,658.55	1,691.56	369.05	0.00	0.00	0.00
15,600.00	88.54	89.72	9,368.85	3,659.05	1,791.52	463.08	0.00	0.00	0.00
15,700.00	88.54	89.72	9,371.40	3,659.54	1,891.49	557.12	0.00	0.00	0.00
15,800.00	88.54	89.72	9,373.96	3,660.03	1,991.45	651.15	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
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)
15,900.00	88.54	89.72	9,376.52	3,660.52	2,091.42	745.18	0.00	0.00	0.00
16,000.00	88.54	89.72	9,379.07	3,661.01	2,191.39	839.21	0.00	0.00	0.00
16,100.00	88.54	89.72	9,381.63	3,661.50	2,291.35	933.25	0.00	0.00	0.00
16,200.00	88.54	89.72	9,384.18	3,662.00	2,391.32	1,027.28	0.00	0.00	0.00
16,300.00	88.54	89.72	9,386.74	3,662.49	2,491.28	1,121.31	0.00	0.00	0.00
16,400.00	88.54	89.72	9,389.29	3,662.98	2,591.25	1,215.34	0.00	0.00	0.00
16,500.00	88.54	89.72	9,391.85	3,663.47	2,691.22	1,309.38	0.00	0.00	0.00
16,523.02	88.54	89.72	9,392.43	3,663.59	2,714.23	1,331.02	0.00	0.00	0.00
16,600.00	88.54	94.72	9,394.40	3,660.60	2,791.10	1,404.46	6.50	0.01	6.50
16,700.00	88.56	101.23	9,396.93	3,646.74	2,890.05	1,502.33	6.50	0.02	6.50
16,800.00	88.61	107.73	9,399.40	3,621.76	2,986.79	1,601.86	6.50	0.04	6.50
16,900.00	88.67	114.23	9,401.78	3,585.99	3,080.09	1,701.74	6.50	0.06	6.50
17,000.00	88.74	120.73	9,404.04	3,539.89	3,168.74	1,800.71	6.50	0.08	6.50
17,100.00	88.84	127.23	9,406.16	3,484.04	3,251.59	1,897.49	6.50	0.09	6.50
17,200.00	88.94	133.73	9,408.09	3,419.16	3,327.60	1,990.83	6.50	0.11	6.50
17,300.00	89.07	140.23	9,409.83	3,346.10	3,395.78	2,079.53	6.50	0.12	6.50
17,400.00	89.20	146.73	9,411.34	3,265.79	3,455.25	2,162.46	6.50	0.13	6.50
17,500.00	89.34	153.23	9,412.62	3,179.26	3,505.25	2,238.54	6.50	0.14	6.50
17,600.00	89.50	159.73	9,413.63	3,087.62	3,545.13	2,306.81	6.50	0.15	6.50
17,700.00	89.66	166.23	9,414.37	2,992.05	3,574.39	2,366.37	6.50	0.16	6.50
17,800.00	89.82	172.72	9,414.83	2,893.79	3,592.65	2,416.47	6.50	0.16	6.50
17,900.00	89.98	179.22	9,415.00	2,794.09	3,599.67	2,456.47	6.50	0.17	6.50
17,909.31	90.00	179.83	9,415.00	2,784.78	3,599.74	2,459.65	6.50	0.17	6.50
18,000.00	90.00	179.83	9,415.00	2,694.09	3,600.01	2,490.27	0.00	0.00	0.00
18,100.00	90.00	179.83	9,415.00	2,594.09	3,600.31	2,524.04	0.00	0.00	0.00
18,200.00	90.00	179.83	9,415.00	2,494.09	3,600.61	2,557.80	0.00	0.00	0.00
18,300.00	90.00	179.83	9,415.00	2,394.09	3,600.91	2,591.56	0.00	0.00	0.00
18,400.00	90.00	179.83	9,415.00	2,294.09	3,601.21	2,625.32	0.00	0.00	0.00
18,500.00	90.00	179.83	9,415.00	2,194.09	3,601.52	2,659.09	0.00	0.00	0.00
18,600.00	90.00	179.83	9,415.00	2,094.09	3,601.82	2,692.85	0.00	0.00	0.00
18,700.00	90.00	179.83	9,415.00	1,994.09	3,602.12	2,726.61	0.00	0.00	0.00
18,800.00	90.00	179.83	9,415.00	1,894.09	3,602.42	2,760.38	0.00	0.00	0.00
18,900.00	90.00	179.83	9,415.00	1,794.10	3,602.72	2,794.14	0.00	0.00	0.00
19,000.00	90.00	179.83	9,415.00	1,694.10	3,603.02	2,827.90	0.00	0.00	0.00
19,100.00	90.00	179.83	9,415.00	1,594.10	3,603.32	2,861.67	0.00	0.00	0.00
19,200.00	90.00	179.83	9,415.00	1,494.10	3,603.62	2,895.43	0.00	0.00	0.00
19,300.00	90.00	179.83	9,415.00	1,394.10	3,603.92	2,929.19	0.00	0.00	0.00
19,400.00	90.00	179.83	9,415.00	1,294.10	3,604.22	2,962.96	0.00	0.00	0.00
19,500.00	90.00	179.83	9,415.00	1,194.10	3,604.52	2,996.72	0.00	0.00	0.00
19,600.00	90.00	179.83	9,415.00	1,094.10	3,604.82	3,030.48	0.00	0.00	0.00
19,700.00	90.00	179.83	9,415.00	994.10	3,605.12	3,064.24	0.00	0.00	0.00
19,800.00	90.00	179.83	9,415.00	894.10	3,605.42	3,098.01	0.00	0.00	0.00
19,900.00	90.00	179.83	9,415.00	794.10	3,605.72	3,131.77	0.00	0.00	0.00
20,000.00	90.00	179.83	9,415.00	694.10	3,606.02	3,165.53	0.00	0.00	0.00
20,100.00	90.00	179.83	9,415.00	594.10	3,606.33	3,199.30	0.00	0.00	0.00
20,200.00	90.00	179.83	9,415.00	494.10	3,606.63	3,233.06	0.00	0.00	0.00
20,300.00	90.00	179.83	9,415.00	394.10	3,606.93	3,266.82	0.00	0.00	0.00
20,400.00	90.00	179.83	9,415.00	294.10	3,607.23	3,300.59	0.00	0.00	0.00
20,500.00	90.00	179.83	9,415.00	194.10	3,607.53	3,334.35	0.00	0.00	0.00
20,600.00	90.00	179.83	9,415.00	94.10	3,607.83	3,368.11	0.00	0.00	0.00
20,700.00	90.00	179.83	9,415.00	-5.90	3,608.13	3,401.88	0.00	0.00	0.00
20,800.00	90.00	179.83	9,415.00	-105.90	3,608.43	3,435.64	0.00	0.00	0.00
20,900.00	90.00	179.83	9,415.00	-205.90	3,608.73	3,469.40	0.00	0.00	0.00
21,000.00	90.00	179.83	9,415.00	-305.90	3,609.03	3,503.17	0.00	0.00	0.00
21,100.00	90.00	179.83	9,415.00	-405.90	3,609.33	3,536.93	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
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)
21,200.00	90.00	179.83	9,415.00	-505.89	3,609.63	3,570.69	0.00	0.00	0.00
21,300.00	90.00	179.83	9,415.00	-605.89	3,609.93	3,604.45	0.00	0.00	0.00
21,400.00	90.00	179.83	9,415.00	-705.89	3,610.23	3,638.22	0.00	0.00	0.00
21,500.00	90.00	179.83	9,415.00	-805.89	3,610.53	3,671.98	0.00	0.00	0.00
21,600.00	90.00	179.83	9,415.00	-905.89	3,610.84	3,705.74	0.00	0.00	0.00
21,700.00	90.00	179.83	9,415.00	-1,005.89	3,611.14	3,739.51	0.00	0.00	0.00
21,800.00	90.00	179.83	9,415.00	-1,105.89	3,611.44	3,773.27	0.00	0.00	0.00
21,900.00	90.00	179.83	9,415.00	-1,205.89	3,611.74	3,807.03	0.00	0.00	0.00
21,977.46	90.00	179.83	9,415.00	-1,283.35	3,611.97	3,833.19	0.00	0.00	0.00

Design Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	
- Shape									Latitude Longitude
KOP (Corral Fly 2	0.00	0.01	-50.00	-1,258.89	-40.54	419,270.59	657,037.49	32.152101	-103.959476
- plan misses target center by 1260.53ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
TP2 (Corral Fly 2 State	0.00	0.01	-50.00	3,668.96	1,782.16	424,198.06	658,860.05	32.165629	-103.953531
- plan misses target center by 4079.20ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
FTP (Corral Fly 2	0.00	0.00	9,320.00	-1,208.89	-40.54	419,320.58	657,037.49	32.152239	-103.959476
- plan misses target center by 202.13ft at 9390.73ft MD (9178.43 TVD, -1064.63 N, -39.50 E)									
- Point									
TP1 (Corral Fly 2 State	0.00	0.01	9,322.00	2,772.73	-41.24	423,301.89	657,036.79	32.163183	-103.959433
- plan hits target center									
- Point									
TP3 (Corral Fly 2 State	0.00	0.00	9,415.00	2,784.78	3,599.74	423,313.94	660,677.49	32.163181	-103.947668
- plan hits target center									
- Point									
PBHL (Corral Fly 2	0.00	0.00	9,415.00	-1,283.35	3,611.97	419,246.13	660,689.72	32.151999	-103.947675
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
324.10	324.10	RUSTLER				
748.10	748.10	SALADO				
1,626.10	1,626.10	CASTILE				
3,171.10	3,171.10	DELAWARE				
3,200.10	3,200.10	BELL CANYON				
4,062.10	4,059.10	CHERRY CANYON				
5,620.79	5,573.10	BRUSHY CANYON				
7,037.08	6,941.10	BONE SPRING				
7,965.74	7,838.10	BONE SPRING 1ST				
8,852.30	8,696.10	BONE SPRING 2ND				

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Corral Fly 2 State 72H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3059.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3059.10ft
Site:	Corral Fly 2 State	North Reference:	Grid
Well:	Corral Fly 2 State 72H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,223.00	3,223.00	0.00	0.00	Build 1°/100'
4,723.48	4,706.39	-195.28	-5.53	Hold 15° Tangent
8,755.35	8,600.79	-1,238.71	-35.06	KOP, Build & Turn 10°/100'
9,805.33	9,322.00	-685.28	-40.66	Landing Point
13,263.33	9,322.00	2,772.72	-41.24	Drop & Turn 6.5°/100'
14,643.77	9,344.42	3,654.34	835.62	Hold
16,523.02	9,392.43	3,663.59	2,714.23	Build & Turn 6.5°/100'
17,909.31	9,415.00	2,784.78	3,599.74	Hold
21,977.46	9,415.00	-1,283.35	3,611.97	TD at 21977.46' MD

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 399043

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 399043
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	12/12/2024