

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

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.)		WELL API NO. 30-015-44517
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator OXY USA WTP LP		6. State Oil & Gas Lease No.
3. Address of Operator PO BOX 4294, HOUSTON, TX 77210		7. Lease Name or Unit Agreement Name TURKEY TRACK 4 3 STATE
4. Well Location Unit Letter <u>L</u> : <u>1660</u> feet from the <u>South</u> line and <u>360</u> feet from the <u>WEST</u> line Section <u>4</u> Township <u>19S</u> Range <u>29E</u> NMPM County <u>EDDY</u>		8. Well Number <u>33H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3404' GR		9. OGRID Number <u>192462</u>
		10. Pool name or Wildcat TURKEY TRACK; BONE SPRING

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 WTP LP respectfully requests to change the well number of the Turkey Track 4 3 State #33H, API No. 30-015-44517, to the Turkey Track 4 3 State #23H and amend the APD with the following changes:

1. Change target formation from 3rd Bone Spring Sand to 2nd Bone Spring Sand. New plat and directional plan are attached.
2. Amend casing and cementing details to accommodate new target.

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: Sarah Chapman TITLE: REGULATORY SPECIALIST DATE: 05/15/2018

Type or print name: SARAH CHAPMAN E-mail address: SARAH_CHAPMAN@OXY.COM PHONE: 713-350-4997
For State Use Only

APPROVED BY: Rusty Klein TITLE: Business Manager DATE: 5-16-2018
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44517	Pool Code 60660	Pool Name Turkey Track; Bone Spring
Property Code 318404	Property Name TURKEY TRACK "4-3" STATE	Well Number 23H
OGRID No. 192467	Operator Name OXY USA INC. WTV LP	Elevation 3404.1'

Surface Location

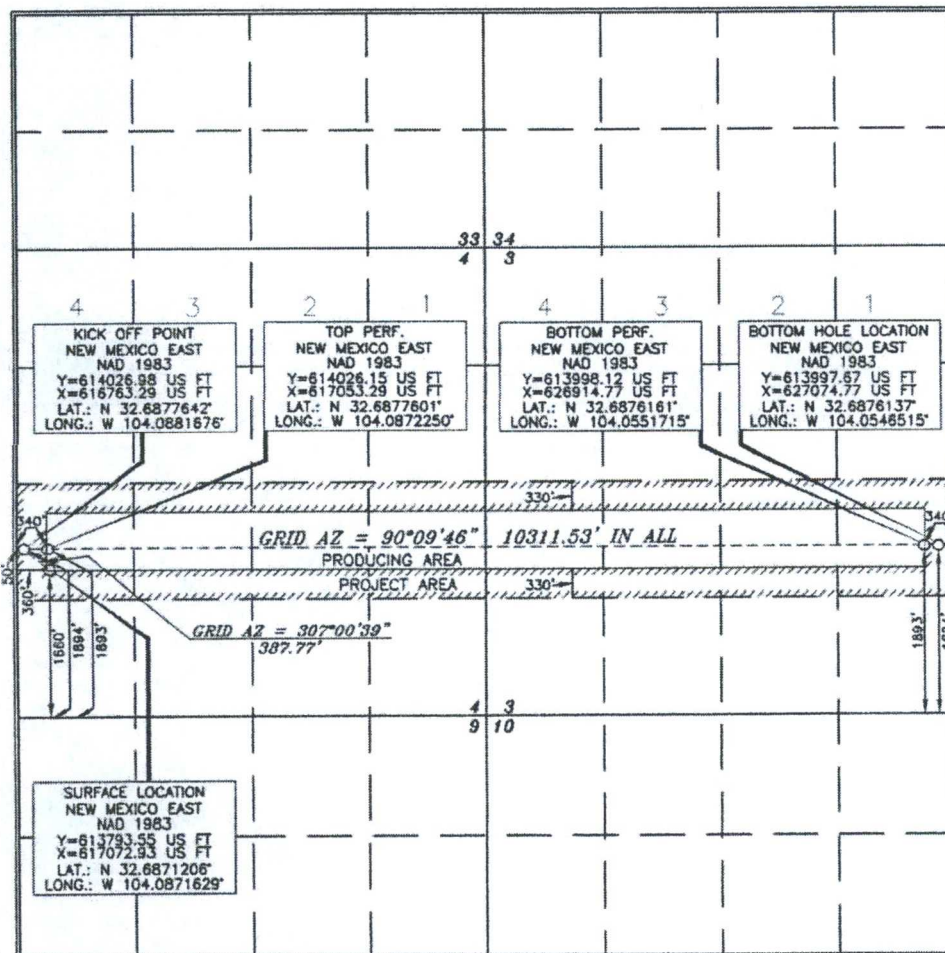
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	19 SOUTH	29 EAST, N.M.P.M.		1660'	SOUTH	360'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	3	19 SOUTH	29 EAST, N.M.P.M.		1894'	SOUTH	180'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	Y		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Justin Morris* Date: 4-3-18
Printed Name: Justin Morris
E-mail Address: Justin_morris@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from reliable data of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: JULY 18, 2017
Signature and Seal of Professional Surveyor: *Terry J. Aspin*
Certificate Number: 15079

WO# 170717WL-a (KA)

Oxy USA WTP LP - Turkey Track 4-3 State 23H; API 30-015-44517

1. 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	400	13.375	54.5	J55	BTC	1.125	1.2	1.4	1.4
12.25	0	2995	9.625	36	J55	BTC	1.125	1.2	1.4	1.4
8.5	0	17989	5.5	20	P110	DQX	1.125	1.2	1.4	1.4
SF Values will meet or Exceed										

2. Cementing Program

Cement volumes changed due to the change in MD.

Casing String	# Sk	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	432	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate Lead	843	12.9	1.73	8.784	15:26	Pozzolan Cement, Retarder
Intermediate Tail	156	14.8	1.33	6.368	7:11	Class C Cement, Accelerator
Production Lead	849	11.9	2.24	12.327	14:46	Class H Cement, Retarder, Dispersant, Salt
Production Tail	2131	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface Lead	N/A	N/A	N/A
Surface Tail	0	400	100%
Intermediate Lead	0	2495	100%
Intermediate Tail	2495	2995	20%
Production Lead	2495	6848	100%
Production Tail	6848	17989	15%

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Turkey Track 4-3 State

Turkey Track 4-3 State 23H

WB00

Plan: Permitting Plan

Standard Planning Report

12 April, 2018

Oxy Planning Report

Database: HOPSPP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Turkey Track 4-3 State
Well: Turkey Track 4-3 State 23H
Wellbore: WB00
Design: Permitting Plan

Local Co-ordinate Reference: Well Turkey Track 4-3 State 23H
TVD Reference: Datum @ 3430.60ft
MD Reference: Datum @ 3430.60ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
 Using geodetic scale factor

Site Turkey Track 4-3 State

Site Position: Northing: 616,311.49 usft Latitude: 32° 41' 38.545006 N
From: Map Easting: 617,286.73 usft Longitude: 104° 5' 11.216080 W
Position Uncertainty: 50.00 ft Slot Radius: 13.200 in Grid Convergence: 0.13 °

Well Turkey Track 4-3 State 23H

Well Position +N-S -2,518.16 ft Northing: 613,793.55 usft Latitude: 32° 41' 13.634304 N
 +E-W -213.82 ft Easting: 617,072.93 usft Longitude: 104° 5' 13.786397 W
Position Uncertainty 2.00 ft Wellhead Elevation: 0.00 ft Ground Level: 3,404.10 ft

Wellbore WB00

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/16/2017	7.52	60.52	48,207

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	88.83

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	
4,615.00	0.00	0.00	4,615.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,114.59	9.99	307.01	5,112.06	26.16	-34.70	2.00	2.00	0.00	307.01	
6,848.81	9.99	307.01	6,819.98	207.29	-274.97	0.00	0.00	0.00	0.00	
7,348.40	0.00	90.16	7,317.04	233.45	-309.67	2.00	-2.00	0.00	180.00	TT_4-3_State_23H_
8,243.40	89.50	90.16	7,889.98	231.84	258.29	10.00	10.00	0.00	90.16	
17,988.23	89.50	90.16	7,975.00	204.14	10,002.70	0.00	0.00	0.00	0.00	TT_4-3_State_23H_

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3430.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3430.60ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,615.00	0.00	0.00	4,615.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	1.70	307.01	4,699.99	0.76	-1.01	-0.99	2.00	2.00	0.00
4,800.00	3.70	307.01	4,799.87	3.59	-4.77	-4.69	2.00	2.00	0.00
4,900.00	5.70	307.01	4,899.53	8.53	-11.31	-11.13	2.00	2.00	0.00
5,000.00	7.70	307.01	4,998.84	15.55	-20.63	-20.30	2.00	2.00	0.00
5,100.00	9.70	307.01	5,097.69	24.65	-32.70	-32.19	2.00	2.00	0.00
5,114.59	9.99	307.01	5,112.06	26.16	-34.70	-34.16	2.00	2.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3430.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3430.60ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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)
5,200.00	9.99	307.01	5,196.18	35.08	-46.53	-45.80	0.00	0.00	0.00
5,300.00	9.99	307.01	5,294.66	45.52	-60.38	-59.44	0.00	0.00	0.00
5,400.00	9.99	307.01	5,393.14	55.97	-74.24	-73.08	0.00	0.00	0.00
5,500.00	9.99	307.01	5,491.63	66.41	-88.09	-86.72	0.00	0.00	0.00
5,600.00	9.99	307.01	5,590.11	76.86	-101.95	-100.36	0.00	0.00	0.00
5,700.00	9.99	307.01	5,688.59	87.30	-115.80	-114.00	0.00	0.00	0.00
5,800.00	9.99	307.01	5,787.08	97.75	-129.66	-127.64	0.00	0.00	0.00
5,900.00	9.99	307.01	5,885.56	108.19	-143.51	-141.28	0.00	0.00	0.00
6,000.00	9.99	307.01	5,984.04	118.64	-157.37	-154.92	0.00	0.00	0.00
6,100.00	9.99	307.01	6,082.53	129.08	-171.22	-168.55	0.00	0.00	0.00
6,200.00	9.99	307.01	6,181.01	139.53	-185.08	-182.19	0.00	0.00	0.00
6,300.00	9.99	307.01	6,279.49	149.97	-198.93	-195.83	0.00	0.00	0.00
6,400.00	9.99	307.01	6,377.98	160.42	-212.79	-209.47	0.00	0.00	0.00
6,500.00	9.99	307.01	6,476.46	170.86	-226.64	-223.11	0.00	0.00	0.00
6,600.00	9.99	307.01	6,574.94	181.31	-240.50	-236.75	0.00	0.00	0.00
6,700.00	9.99	307.01	6,673.42	191.75	-254.35	-250.39	0.00	0.00	0.00
6,800.00	9.99	307.01	6,771.91	202.19	-268.21	-264.03	0.00	0.00	0.00
6,848.81	9.99	307.01	6,819.98	207.29	-274.97	-270.68	0.00	0.00	0.00
6,900.00	8.97	307.01	6,870.47	212.37	-281.70	-277.31	2.00	-2.00	0.00
7,000.00	8.87	307.01	6,969.50	220.71	-292.77	-288.21	2.00	-2.00	0.00
7,100.00	4.97	307.01	7,068.95	226.97	-301.07	-296.38	2.00	-2.00	0.00
7,200.00	2.97	307.01	7,168.71	231.14	-308.80	-301.82	2.00	-2.00	0.00
7,300.00	0.97	307.01	7,268.64	233.20	-309.34	-304.52	2.00	-2.00	0.00
7,348.40	0.00	90.16	7,317.04	233.45	-309.67	-304.84	2.00	-2.00	0.00
7,400.00	5.16	90.16	7,368.57	233.44	-307.35	-302.52	10.00	10.00	0.00
7,500.00	15.16	90.16	7,466.88	233.39	-289.73	-284.91	10.00	10.00	0.00
7,600.00	25.16	90.16	7,560.63	233.30	-255.31	-250.50	10.00	10.00	0.00
7,700.00	35.16	90.16	7,646.98	233.15	-205.13	-200.33	10.00	10.00	0.00
7,800.00	45.16	90.16	7,723.31	232.97	-140.72	-135.94	10.00	10.00	0.00
7,900.00	55.16	90.16	7,787.30	232.75	-84.04	-59.27	10.00	10.00	0.00
8,000.00	65.16	90.16	7,836.99	232.51	22.60	27.33	10.00	10.00	0.00
8,100.00	75.16	90.16	7,870.89	232.24	116.54	121.25	10.00	10.00	0.00
8,200.00	85.16	90.16	7,887.96	231.96	214.94	219.63	10.00	10.00	0.00
8,243.40	89.50	90.16	7,889.98	231.84	258.29	262.97	10.00	10.00	0.00
8,300.00	89.50	90.16	7,890.47	231.67	314.88	319.54	0.00	0.00	0.00
8,400.00	89.50	90.16	7,891.34	231.39	414.88	419.51	0.00	0.00	0.00
8,500.00	89.50	90.16	7,892.22	231.11	514.88	519.48	0.00	0.00	0.00
8,600.00	89.50	90.16	7,893.09	230.82	614.87	619.45	0.00	0.00	0.00
8,700.00	89.50	90.16	7,893.98	230.54	714.87	719.42	0.00	0.00	0.00
8,800.00	89.50	90.16	7,894.84	230.25	814.86	819.39	0.00	0.00	0.00
8,900.00	89.50	90.16	7,895.71	229.97	914.86	919.36	0.00	0.00	0.00
9,000.00	89.50	90.16	7,896.58	229.69	1,014.85	1,019.33	0.00	0.00	0.00
9,100.00	89.50	90.16	7,897.45	229.40	1,114.85	1,119.30	0.00	0.00	0.00
9,200.00	89.50	90.16	7,898.33	229.12	1,214.85	1,219.27	0.00	0.00	0.00
9,300.00	89.50	90.16	7,899.20	228.83	1,314.84	1,319.24	0.00	0.00	0.00
9,400.00	89.50	90.16	7,900.07	228.55	1,414.84	1,419.21	0.00	0.00	0.00
9,500.00	89.50	90.16	7,900.94	228.26	1,514.83	1,519.17	0.00	0.00	0.00
9,600.00	89.50	90.16	7,901.82	227.98	1,614.83	1,619.14	0.00	0.00	0.00
9,700.00	89.50	90.16	7,902.69	227.70	1,714.82	1,719.11	0.00	0.00	0.00
9,800.00	89.50	90.16	7,903.56	227.41	1,814.82	1,819.08	0.00	0.00	0.00
9,900.00	89.50	90.16	7,904.43	227.13	1,914.82	1,919.05	0.00	0.00	0.00
10,000.00	89.50	90.16	7,905.31	226.84	2,014.81	2,019.02	0.00	0.00	0.00
10,100.00	89.50	90.16	7,906.18	226.56	2,114.81	2,118.99	0.00	0.00	0.00
10,200.00	89.50	90.16	7,907.05	226.27	2,214.80	2,218.96	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3430.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3430.60ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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)	
10,300.00	89.50	90.16	7,907.93	225.99	2,314.80	2,318.93	0.00	0.00	0.00	
10,400.00	89.50	90.16	7,908.80	225.71	2,414.80	2,418.90	0.00	0.00	0.00	
10,500.00	89.50	90.16	7,909.67	225.42	2,514.79	2,518.87	0.00	0.00	0.00	
10,600.00	89.50	90.16	7,910.54	225.14	2,614.79	2,618.84	0.00	0.00	0.00	
10,700.00	89.50	90.16	7,911.42	224.85	2,714.78	2,718.81	0.00	0.00	0.00	
10,800.00	89.50	90.16	7,912.29	224.57	2,814.78	2,818.77	0.00	0.00	0.00	
10,900.00	89.50	90.16	7,913.16	224.28	2,914.77	2,918.74	0.00	0.00	0.00	
11,000.00	89.50	90.16	7,914.03	224.00	3,014.77	3,018.71	0.00	0.00	0.00	
11,100.00	89.50	90.16	7,914.91	223.72	3,114.77	3,118.68	0.00	0.00	0.00	
11,200.00	89.50	90.16	7,915.78	223.43	3,214.76	3,218.65	0.00	0.00	0.00	
11,300.00	89.50	90.16	7,916.65	223.15	3,314.76	3,318.62	0.00	0.00	0.00	
11,400.00	89.50	90.16	7,917.52	222.86	3,414.75	3,418.59	0.00	0.00	0.00	
11,500.00	89.50	90.16	7,918.40	222.58	3,514.75	3,518.56	0.00	0.00	0.00	
11,600.00	89.50	90.16	7,919.27	222.30	3,614.74	3,618.53	0.00	0.00	0.00	
11,700.00	89.50	90.16	7,920.14	222.01	3,714.74	3,718.50	0.00	0.00	0.00	
11,800.00	89.50	90.16	7,921.01	221.73	3,814.74	3,818.47	0.00	0.00	0.00	
11,900.00	89.50	90.16	7,921.89	221.44	3,914.73	3,918.44	0.00	0.00	0.00	
12,000.00	89.50	90.16	7,922.76	221.16	4,014.73	4,018.40	0.00	0.00	0.00	
12,100.00	89.50	90.16	7,923.63	220.87	4,114.72	4,118.37	0.00	0.00	0.00	
12,200.00	89.50	90.16	7,924.51	220.59	4,214.72	4,218.34	0.00	0.00	0.00	
12,300.00	89.50	90.16	7,925.38	220.31	4,314.72	4,318.31	0.00	0.00	0.00	
12,400.00	89.50	90.16	7,926.25	220.02	4,414.71	4,418.28	0.00	0.00	0.00	
12,500.00	89.50	90.16	7,927.12	219.74	4,514.71	4,518.25	0.00	0.00	0.00	
12,600.00	89.50	90.16	7,928.00	219.45	4,614.70	4,618.22	0.00	0.00	0.00	
12,700.00	89.50	90.16	7,928.87	219.17	4,714.70	4,718.19	0.00	0.00	0.00	
12,800.00	89.50	90.16	7,929.74	218.88	4,814.69	4,818.16	0.00	0.00	0.00	
12,900.00	89.50	90.16	7,930.61	218.60	4,914.69	4,918.13	0.00	0.00	0.00	
13,000.00	89.50	90.16	7,931.49	218.32	5,014.69	5,018.10	0.00	0.00	0.00	
13,100.00	89.50	90.16	7,932.36	218.03	5,114.68	5,118.07	0.00	0.00	0.00	
13,200.00	89.50	90.16	7,933.23	217.75	5,214.68	5,218.03	0.00	0.00	0.00	
13,300.00	89.50	90.16	7,934.10	217.46	5,314.67	5,318.00	0.00	0.00	0.00	
13,400.00	89.50	90.16	7,934.98	217.18	5,414.67	5,417.97	0.00	0.00	0.00	
13,500.00	89.50	90.16	7,935.85	216.89	5,514.66	5,517.94	0.00	0.00	0.00	
13,600.00	89.50	90.16	7,936.72	216.61	5,614.66	5,617.91	0.00	0.00	0.00	
13,700.00	89.50	90.16	7,937.60	216.33	5,714.66	5,717.88	0.00	0.00	0.00	
13,800.00	89.50	90.16	7,938.47	216.04	5,814.65	5,817.85	0.00	0.00	0.00	
13,900.00	89.50	90.16	7,939.34	215.76	5,914.65	5,917.82	0.00	0.00	0.00	
14,000.00	89.50	90.16	7,940.21	215.47	6,014.64	6,017.79	0.00	0.00	0.00	
14,100.00	89.50	90.16	7,941.09	215.19	6,114.64	6,117.76	0.00	0.00	0.00	
14,200.00	89.50	90.16	7,941.96	214.91	6,214.64	6,217.73	0.00	0.00	0.00	
14,300.00	89.50	90.16	7,942.83	214.62	6,314.63	6,317.70	0.00	0.00	0.00	
14,400.00	89.50	90.16	7,943.70	214.34	6,414.63	6,417.66	0.00	0.00	0.00	
14,500.00	89.50	90.16	7,944.58	214.05	6,514.62	6,517.63	0.00	0.00	0.00	
14,600.00	89.50	90.16	7,945.45	213.77	6,614.62	6,617.60	0.00	0.00	0.00	
14,700.00	89.50	90.16	7,946.32	213.48	6,714.61	6,717.57	0.00	0.00	0.00	
14,800.00	89.50	90.16	7,947.19	213.20	6,814.61	6,817.54	0.00	0.00	0.00	
14,900.00	89.50	90.16	7,948.07	212.92	6,914.61	6,917.51	0.00	0.00	0.00	
15,000.00	89.50	90.16	7,948.94	212.63	7,014.60	7,017.48	0.00	0.00	0.00	
15,100.00	89.50	90.16	7,949.81	212.35	7,114.60	7,117.45	0.00	0.00	0.00	
15,200.00	89.50	90.16	7,950.69	212.06	7,214.59	7,217.42	0.00	0.00	0.00	
15,300.00	89.50	90.16	7,951.56	211.78	7,314.59	7,317.39	0.00	0.00	0.00	
15,400.00	89.50	90.16	7,952.43	211.49	7,414.58	7,417.36	0.00	0.00	0.00	
15,500.00	89.50	90.16	7,953.30	211.21	7,514.58	7,517.33	0.00	0.00	0.00	
15,600.00	89.50	90.16	7,954.18	210.93	7,614.58	7,617.29	0.00	0.00	0.00	

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3430.60ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3430.60ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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)
15,700.00	89.50	90.16	7,955.05	210.64	7,714.57	7,717.26	0.00	0.00	0.00
15,800.00	89.50	90.16	7,955.92	210.36	7,814.57	7,817.23	0.00	0.00	0.00
15,900.00	89.50	90.16	7,956.79	210.07	7,914.56	7,917.20	0.00	0.00	0.00
16,000.00	89.50	90.16	7,957.67	209.79	8,014.56	8,017.17	0.00	0.00	0.00
16,100.00	89.50	90.16	7,958.54	209.50	8,114.56	8,117.14	0.00	0.00	0.00
16,200.00	89.50	90.16	7,959.41	209.22	8,214.55	8,217.11	0.00	0.00	0.00
16,300.00	89.50	90.16	7,960.28	208.94	8,314.55	8,317.08	0.00	0.00	0.00
16,400.00	89.50	90.16	7,961.16	208.65	8,414.54	8,417.05	0.00	0.00	0.00
16,500.00	89.50	90.16	7,962.03	208.37	8,514.54	8,517.02	0.00	0.00	0.00
16,600.00	89.50	90.16	7,962.90	208.08	8,614.53	8,616.99	0.00	0.00	0.00
16,700.00	89.50	90.16	7,963.77	207.80	8,714.53	8,716.96	0.00	0.00	0.00
16,800.00	89.50	90.16	7,964.65	207.51	8,814.53	8,816.92	0.00	0.00	0.00
16,900.00	89.50	90.16	7,965.52	207.23	8,914.52	8,916.89	0.00	0.00	0.00
17,000.00	89.50	90.16	7,966.39	206.95	9,014.52	9,016.86	0.00	0.00	0.00
17,100.00	89.50	90.16	7,967.27	206.66	9,114.51	9,116.83	0.00	0.00	0.00
17,200.00	89.50	90.16	7,968.14	206.38	9,214.51	9,216.80	0.00	0.00	0.00
17,300.00	89.50	90.16	7,969.01	206.09	9,314.50	9,316.77	0.00	0.00	0.00
17,400.00	89.50	90.16	7,969.88	205.81	9,414.50	9,416.74	0.00	0.00	0.00
17,500.00	89.50	90.16	7,970.76	205.53	9,514.50	9,516.71	0.00	0.00	0.00
17,600.00	89.50	90.16	7,971.63	205.24	9,614.49	9,616.68	0.00	0.00	0.00
17,700.00	89.50	90.16	7,972.50	204.96	9,714.49	9,716.65	0.00	0.00	0.00
17,800.00	89.50	90.16	7,973.37	204.67	9,814.48	9,816.62	0.00	0.00	0.00
17,900.00	89.50	90.16	7,974.25	204.39	9,914.48	9,916.59	0.00	0.00	0.00
17,988.23	89.50	90.16	7,975.00	204.14	10,002.70	10,004.79	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TT_4-3_State_23H_K - hit/miss target - Shape - Point	0.00	0.00	7,317.04	233.45	-309.67	614,026.98	616,763.29	32° 41' 15.951246 N	104° 5' 17.403290
TT_4-3_State_23H_B - plan hits target center - Point	0.00	0.00	7,975.00	204.14	10,002.70	613,997.67	627,074.77	32° 41' 15.409308 N	104° 3' 16.745316

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,615.00	4,615.00	0.00	0.00	STEP OUT DLS 2.00
5,114.59	5,112.06	26.16	-34.70	HOLD 10 DEG TANGENT
6,848.81	6,819.98	207.29	-274.97	DROP BACK TO VERTICAL DLS 2.00
7,348.40	7,317.04	233.45	-309.67	BUILD CURVE 10 DEG / 100
8,243.40	7,889.98	231.84	258.29	LANDING POINT
17,988.23	7,975.00	204.14	10,002.70	TD at 17988.23