

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

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

Form C-103
Revised July 18, 2013

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. 30-015-44396
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>D, Lt 4</u> : <u>1072</u> feet from the <u>N</u> line and <u>110</u> feet from the <u>W</u> line Section <u>4</u> Township <u>19S</u> Range <u>29E</u> NMPM County <u>EDDY</u>		8. Well Number <u>031H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3414' 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 #31H, API No. 30-015-44396, to the Turkey Track 4 3 State #21H 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 is attached.
2. Amend casing and cementing details to accommodate new target.

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 03 2018

Spud Date:

Rig Release Date:

RECEIVED

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

SIGNATURE Justin Morris TITLE REGULATORY LEAD DATE 04/26/2018

Type or print name JUSTIN MORRIS E-mail address: JUSTIN.MORRIS@OXY.COM PHONE: 713-366-5249
For State Use Only

APPROVED BY: Raymond K. Padany TITLE Geologist DATE 5-4-18
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone: (505) 476-3460 Fax: (505) 476-3463

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 30-015-44396	Pool Code 60660	Pool Name Turkey Track; Bone Spring
Property Code 318404	Property Name TURKEY TRACK "4-3" STATE	Well Number 21H
OGRID No. 192463	Operator Name OXY USA INC. WTY UP	Elevation 3414.8'

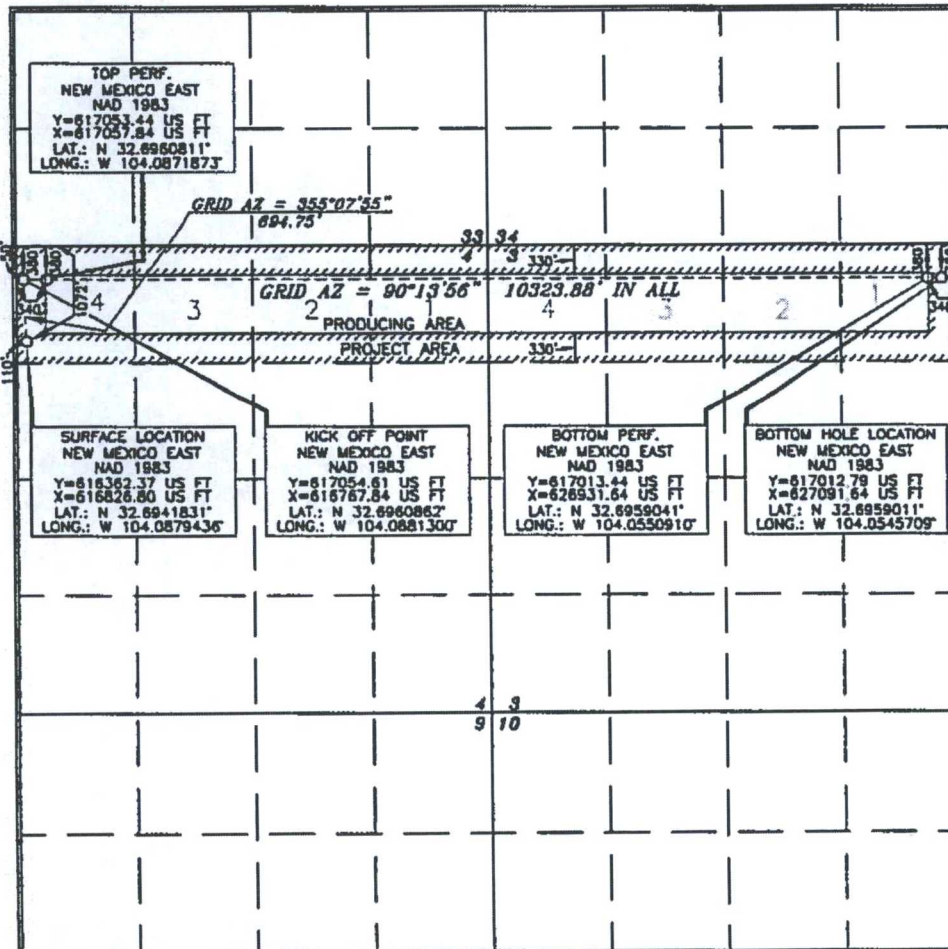
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	4	19 SOUTH	29 EAST, N.M.P.M.		1072'	NORTH	110'	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
1	3	19 SOUTH	29 EAST, N.M.P.M.		380'	NORTH	180'	EAST	EDDY
Dedicated Acres 323	Joint or Infill Y	Consolidation Code	Order No.						

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 in a voluntary pooling agreement or a nonexclusive 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 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.

Date of Survey: JULY 12, 2017
Signature and Seal of Professional Surveyor: Terry J. Asch
Certificate Number: 15079

W01712WL-a (XA)

OXY USA WTP LP - Turkey Track 4-3 State 21H; API 30-015-44396

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	2978	9.625	36	J55	BTC	1.125	1.2	1.4	1.4
8.5	0	18023	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	# 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	432	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate Lead	837	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	857	11.9	2.24	12.327	14:46	Class H Cement, Retarder, Dispersant, Salt
Production Tail	2134	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	2478	100%
Intermediate Tail	2478	2978	20%
Production Lead	2478	6870	100%
Production Tail	6870	18023	15%

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Turkey Track 4-3 State

Turkey Track 4-3 State 21H

WB00

Plan: Permitting Plan

Standard Planning Report

12 April, 2018

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3441.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3441.30ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 21H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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						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 21H					
Well Position	+N/-S	50.88 ft	Northing:	616,362.37 usft	Latitude:	32° 41' 39.059036 N
	+E/-W	-459.97 ft	Easting:	616,826.80 usft	Longitude:	104° 5' 16.596918 W
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,414.80 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/9/2017	7.53	60.53	48,228

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	86.37

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	
3,025.00	0.00	0.00	3,025.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,390.55	10.05	355.13	3,388.68	31.87	-2.71	2.75	2.75	0.00	355.13	
7,004.72	10.05	355.13	6,947.36	660.43	-56.25	0.00	0.00	0.00	0.00	
7,370.27	0.00	90.23	7,311.04	692.30	-58.97	2.75	-2.75	0.00	180.00	TT_4-3_State_21H_
8,267.27	89.70	90.23	7,883.99	689.99	510.99	10.00	10.00	0.00	90.23	
18,022.25	89.63	90.23	7,941.00	650.48	10,265.73	0.00	0.00	0.00	180.00	TT_4-3_State_21H_

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3441.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3441.30ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 21H	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
3,025.00	0.00	0.00	3,025.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	2.06	355.13	3,099.98	1.34	-0.11	-0.03	2.75	2.75	0.00
3,200.00	4.81	355.13	3,199.79	7.32	-0.62	-0.16	2.75	2.75	0.00
3,300.00	7.56	355.13	3,299.20	18.06	-1.54	-0.39	2.75	2.75	0.00
3,390.55	10.05	355.13	3,388.68	31.87	-2.71	-0.69	2.75	2.75	0.00
3,400.00	10.05	355.13	3,397.98	33.51	-2.85	-0.73	0.00	0.00	0.00
3,500.00	10.05	355.13	3,496.45	50.90	-4.34	-1.11	0.00	0.00	0.00
3,600.00	10.05	355.13	3,594.91	68.30	-5.82	-1.49	0.00	0.00	0.00
3,700.00	10.05	355.13	3,693.38	85.69	-7.30	-1.87	0.00	0.00	0.00
3,800.00	10.05	355.13	3,791.84	103.08	-8.78	-2.24	0.00	0.00	0.00
3,900.00	10.05	355.13	3,890.31	120.47	-10.26	-2.62	0.00	0.00	0.00
4,000.00	10.05	355.13	3,988.77	137.86	-11.74	-3.00	0.00	0.00	0.00
4,100.00	10.05	355.13	4,087.24	155.25	-13.22	-3.38	0.00	0.00	0.00
4,200.00	10.05	355.13	4,185.70	172.65	-14.70	-3.76	0.00	0.00	0.00
4,300.00	10.05	355.13	4,284.17	190.04	-16.19	-4.14	0.00	0.00	0.00
4,400.00	10.05	355.13	4,382.63	207.43	-17.67	-4.51	0.00	0.00	0.00
4,500.00	10.05	355.13	4,481.10	224.82	-19.15	-4.89	0.00	0.00	0.00
4,600.00	10.05	355.13	4,579.56	242.21	-20.63	-5.27	0.00	0.00	0.00
4,700.00	10.05	355.13	4,678.03	259.60	-22.11	-5.65	0.00	0.00	0.00
4,800.00	10.05	355.13	4,776.49	277.00	-23.59	-6.03	0.00	0.00	0.00
4,900.00	10.05	355.13	4,874.96	294.39	-25.07	-6.41	0.00	0.00	0.00
5,000.00	10.05	355.13	4,973.42	311.78	-26.56	-6.79	0.00	0.00	0.00
5,100.00	10.05	355.13	5,071.89	329.17	-28.04	-7.16	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3441.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3441.30ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 21H	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	10.05	355.13	5,170.35	346.56	-29.52	-7.54	0.00	0.00	0.00
5,300.00	10.05	355.13	5,268.82	363.95	-31.00	-7.92	0.00	0.00	0.00
5,400.00	10.05	355.13	5,367.28	381.34	-32.48	-8.30	0.00	0.00	0.00
5,500.00	10.05	355.13	5,465.75	398.74	-33.96	-8.68	0.00	0.00	0.00
5,600.00	10.05	355.13	5,564.21	416.13	-35.44	-9.06	0.00	0.00	0.00
5,700.00	10.05	355.13	5,662.68	433.52	-36.92	-9.44	0.00	0.00	0.00
5,800.00	10.05	355.13	5,761.14	450.91	-38.41	-9.81	0.00	0.00	0.00
5,900.00	10.05	355.13	5,859.61	468.30	-39.89	-10.19	0.00	0.00	0.00
6,000.00	10.05	355.13	5,958.07	485.69	-41.37	-10.57	0.00	0.00	0.00
6,100.00	10.05	355.13	6,056.54	503.09	-42.85	-10.95	0.00	0.00	0.00
6,200.00	10.05	355.13	6,155.00	520.48	-44.33	-11.33	0.00	0.00	0.00
6,300.00	10.05	355.13	6,253.46	537.87	-45.81	-11.71	0.00	0.00	0.00
6,400.00	10.05	355.13	6,351.93	555.26	-47.29	-12.09	0.00	0.00	0.00
6,500.00	10.05	355.13	6,450.39	572.65	-48.77	-12.46	0.00	0.00	0.00
6,600.00	10.05	355.13	6,548.86	590.04	-50.26	-12.84	0.00	0.00	0.00
6,700.00	10.05	355.13	6,647.32	607.44	-51.74	-13.22	0.00	0.00	0.00
6,800.00	10.05	355.13	6,745.79	624.83	-53.22	-13.60	0.00	0.00	0.00
6,900.00	10.05	355.13	6,844.25	642.22	-54.70	-13.98	0.00	0.00	0.00
7,000.00	10.05	355.13	6,942.72	659.61	-56.18	-14.36	0.00	0.00	0.00
7,004.72	10.05	355.13	6,947.36	660.43	-56.25	-14.37	0.00	0.00	0.00
7,100.00	7.43	355.13	7,041.53	674.86	-57.48	-14.69	2.75	-2.75	0.00
7,200.00	4.68	355.13	7,140.96	685.37	-58.38	-14.92	2.75	-2.75	0.00
7,300.00	1.93	355.13	7,240.79	691.12	-58.86	-15.04	2.75	-2.75	0.00
7,370.27	0.00	90.23	7,311.04	692.30	-58.97	-15.07	2.75	-2.75	0.00
7,400.00	2.97	90.23	7,340.76	692.30	-58.19	-14.30	10.00	10.00	0.00
7,500.00	12.97	90.23	7,439.67	692.24	-44.34	-0.48	10.00	10.00	0.00
7,600.00	22.97	90.23	7,534.67	692.12	-13.52	30.27	10.00	10.00	0.00
7,700.00	32.97	90.23	7,622.87	691.93	33.32	77.01	10.00	10.00	0.00
7,800.00	42.97	90.23	7,701.60	691.68	94.77	138.32	10.00	10.00	0.00
7,900.00	52.97	90.23	7,768.47	691.38	168.96	212.34	10.00	10.00	0.00
8,000.00	62.97	90.23	7,821.43	691.03	253.63	296.83	10.00	10.00	0.00
8,100.00	72.97	90.23	7,858.89	690.66	346.22	389.20	10.00	10.00	0.00
8,200.00	82.97	90.23	7,879.70	690.26	443.90	486.66	10.00	10.00	0.00
8,267.27	89.70	90.23	7,883.99	689.99	510.99	553.60	10.00	10.00	0.00
8,300.00	89.70	90.23	7,884.16	689.86	543.72	586.26	0.00	0.00	0.00
8,400.00	89.70	90.23	7,884.69	689.45	643.72	686.03	0.00	0.00	0.00
8,500.00	89.70	90.23	7,885.21	689.05	743.72	785.80	0.00	0.00	0.00
8,600.00	89.70	90.23	7,885.74	688.64	843.71	885.57	0.00	0.00	0.00
8,700.00	89.70	90.23	7,886.27	688.24	943.71	985.34	0.00	0.00	0.00
8,800.00	89.70	90.23	7,886.80	687.83	1,043.71	1,085.12	0.00	0.00	0.00
8,900.00	89.70	90.23	7,887.33	687.43	1,143.71	1,184.89	0.00	0.00	0.00
9,000.00	89.69	90.23	7,887.86	687.02	1,243.70	1,284.66	0.00	0.00	0.00
9,100.00	89.69	90.23	7,888.40	686.62	1,343.70	1,384.43	0.00	0.00	0.00
9,200.00	89.69	90.23	7,888.93	686.21	1,443.70	1,484.20	0.00	0.00	0.00
9,300.00	89.69	90.23	7,889.47	685.81	1,543.70	1,583.98	0.00	0.00	0.00
9,400.00	89.69	90.23	7,890.00	685.40	1,643.70	1,683.75	0.00	0.00	0.00
9,500.00	89.69	90.23	7,890.54	685.00	1,743.69	1,783.52	0.00	0.00	0.00
9,600.00	89.69	90.23	7,891.08	684.59	1,843.69	1,883.29	0.00	0.00	0.00
9,700.00	89.69	90.23	7,891.62	684.19	1,943.69	1,983.06	0.00	0.00	0.00
9,800.00	89.69	90.23	7,892.16	683.78	2,043.69	2,082.84	0.00	0.00	0.00
9,900.00	89.69	90.23	7,892.71	683.38	2,143.68	2,182.61	0.00	0.00	0.00
10,000.00	89.69	90.23	7,893.25	682.97	2,243.68	2,282.38	0.00	0.00	0.00
10,100.00	89.69	90.23	7,893.80	682.57	2,343.68	2,382.15	0.00	0.00	0.00
10,200.00	89.69	90.23	7,894.34	682.16	2,443.68	2,481.92	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3441.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3441.30ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 21H	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	89.69	90.23	7,894.89	681.76	2,543.67	2,581.70	0.00	0.00	0.00
10,400.00	89.68	90.23	7,895.44	681.35	2,643.67	2,681.47	0.00	0.00	0.00
10,500.00	89.68	90.23	7,895.99	680.95	2,743.67	2,781.24	0.00	0.00	0.00
10,600.00	89.68	90.23	7,896.55	680.54	2,843.67	2,881.01	0.00	0.00	0.00
10,700.00	89.68	90.23	7,897.10	680.14	2,943.67	2,980.78	0.00	0.00	0.00
10,800.00	89.68	90.23	7,897.65	679.73	3,043.66	3,080.56	0.00	0.00	0.00
10,900.00	89.68	90.23	7,898.21	679.33	3,143.66	3,180.33	0.00	0.00	0.00
11,000.00	89.68	90.23	7,898.77	678.92	3,243.66	3,280.10	0.00	0.00	0.00
11,100.00	89.68	90.23	7,899.32	678.52	3,343.66	3,379.87	0.00	0.00	0.00
11,200.00	89.68	90.23	7,899.88	678.11	3,443.65	3,479.64	0.00	0.00	0.00
11,300.00	89.68	90.23	7,900.44	677.71	3,543.65	3,579.41	0.00	0.00	0.00
11,400.00	89.68	90.23	7,901.01	677.30	3,643.65	3,679.19	0.00	0.00	0.00
11,500.00	89.68	90.23	7,901.57	676.90	3,743.65	3,778.96	0.00	0.00	0.00
11,600.00	89.68	90.23	7,902.13	676.49	3,843.64	3,878.73	0.00	0.00	0.00
11,700.00	89.68	90.23	7,902.70	676.09	3,943.64	3,978.50	0.00	0.00	0.00
11,800.00	89.67	90.23	7,903.27	675.68	4,043.64	4,078.27	0.00	0.00	0.00
11,900.00	89.67	90.23	7,903.84	675.28	4,143.64	4,178.05	0.00	0.00	0.00
12,000.00	89.67	90.23	7,904.41	674.87	4,243.63	4,277.82	0.00	0.00	0.00
12,100.00	89.67	90.23	7,904.98	674.47	4,343.63	4,377.59	0.00	0.00	0.00
12,200.00	89.67	90.23	7,905.55	674.06	4,443.63	4,477.36	0.00	0.00	0.00
12,300.00	89.67	90.23	7,906.12	673.66	4,543.63	4,577.13	0.00	0.00	0.00
12,400.00	89.67	90.23	7,906.70	673.25	4,643.62	4,676.90	0.00	0.00	0.00
12,500.00	89.67	90.23	7,907.27	672.85	4,743.62	4,776.68	0.00	0.00	0.00
12,600.00	89.67	90.23	7,907.85	672.44	4,843.62	4,876.45	0.00	0.00	0.00
12,700.00	89.67	90.23	7,908.43	672.04	4,943.62	4,976.22	0.00	0.00	0.00
12,800.00	89.67	90.23	7,909.01	671.63	5,043.61	5,075.99	0.00	0.00	0.00
12,900.00	89.67	90.23	7,909.59	671.23	5,143.61	5,175.76	0.00	0.00	0.00
13,000.00	89.67	90.23	7,910.17	670.82	5,243.61	5,275.53	0.00	0.00	0.00
13,100.00	89.67	90.23	7,910.75	670.41	5,343.61	5,375.31	0.00	0.00	0.00
13,200.00	89.66	90.23	7,911.34	670.01	5,443.60	5,475.08	0.00	0.00	0.00
13,300.00	89.66	90.23	7,911.92	669.60	5,543.60	5,574.85	0.00	0.00	0.00
13,400.00	89.66	90.23	7,912.51	669.20	5,643.60	5,674.62	0.00	0.00	0.00
13,500.00	89.66	90.23	7,913.10	668.79	5,743.60	5,774.39	0.00	0.00	0.00
13,600.00	89.66	90.23	7,913.69	668.39	5,843.59	5,874.17	0.00	0.00	0.00
13,700.00	89.66	90.23	7,914.28	667.98	5,943.59	5,973.94	0.00	0.00	0.00
13,800.00	89.66	90.23	7,914.87	667.58	6,043.59	6,073.71	0.00	0.00	0.00
13,900.00	89.66	90.23	7,915.46	667.17	6,143.59	6,173.48	0.00	0.00	0.00
14,000.00	89.66	90.23	7,916.06	666.77	6,243.58	6,273.25	0.00	0.00	0.00
14,100.00	89.66	90.23	7,916.65	666.36	6,343.58	6,373.02	0.00	0.00	0.00
14,200.00	89.66	90.23	7,917.25	665.96	6,443.58	6,472.80	0.00	0.00	0.00
14,300.00	89.66	90.23	7,917.85	665.55	6,543.58	6,572.57	0.00	0.00	0.00
14,400.00	89.66	90.23	7,918.45	665.15	6,643.57	6,672.34	0.00	0.00	0.00
14,500.00	89.66	90.23	7,919.05	664.74	6,743.57	6,772.11	0.00	0.00	0.00
14,600.00	89.65	90.23	7,919.65	664.34	6,843.57	6,871.88	0.00	0.00	0.00
14,700.00	89.65	90.23	7,920.25	663.93	6,943.57	6,971.65	0.00	0.00	0.00
14,800.00	89.65	90.23	7,920.86	663.53	7,043.56	7,071.42	0.00	0.00	0.00
14,900.00	89.65	90.23	7,921.46	663.12	7,143.56	7,171.20	0.00	0.00	0.00
15,000.00	89.65	90.23	7,922.07	662.72	7,243.56	7,270.97	0.00	0.00	0.00
15,100.00	89.65	90.23	7,922.68	662.31	7,343.55	7,370.74	0.00	0.00	0.00
15,200.00	89.65	90.23	7,923.29	661.91	7,443.55	7,470.51	0.00	0.00	0.00
15,300.00	89.65	90.23	7,923.90	661.50	7,543.55	7,570.28	0.00	0.00	0.00
15,400.00	89.65	90.23	7,924.51	661.10	7,643.55	7,670.05	0.00	0.00	0.00
15,500.00	89.65	90.23	7,925.12	660.69	7,743.54	7,769.83	0.00	0.00	0.00
15,600.00	89.65	90.23	7,925.74	660.29	7,843.54	7,869.60	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Turkey Track 4-3 State 21H
Company:	ENGINEERING DESIGNS	TVD Reference:	Datum @ 3441.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	Datum @ 3441.30ft
Site:	Turkey Track 4-3 State	North Reference:	Grid
Well:	Turkey Track 4-3 State 21H	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	89.65	90.23	7,926.35	659.88	7,943.54	7,969.37	0.00	0.00	0.00
15,800.00	89.65	90.23	7,926.97	659.48	8,043.54	8,069.14	0.00	0.00	0.00
15,900.00	89.65	90.23	7,927.59	659.07	8,143.53	8,168.91	0.00	0.00	0.00
16,000.00	89.64	90.23	7,928.21	658.67	8,243.53	8,268.68	0.00	0.00	0.00
16,100.00	89.64	90.23	7,928.83	658.26	8,343.53	8,368.45	0.00	0.00	0.00
16,200.00	89.64	90.23	7,929.45	657.86	8,443.52	8,468.23	0.00	0.00	0.00
16,300.00	89.64	90.23	7,930.07	657.45	8,543.52	8,568.00	0.00	0.00	0.00
16,400.00	89.64	90.23	7,930.70	657.05	8,643.52	8,667.77	0.00	0.00	0.00
16,500.00	89.64	90.23	7,931.32	656.64	8,743.52	8,767.54	0.00	0.00	0.00
16,600.00	89.64	90.23	7,931.95	656.24	8,843.51	8,867.31	0.00	0.00	0.00
16,700.00	89.64	90.23	7,932.58	655.83	8,943.51	8,967.08	0.00	0.00	0.00
16,800.00	89.64	90.23	7,933.21	655.43	9,043.51	9,066.86	0.00	0.00	0.00
16,900.00	89.64	90.23	7,933.84	655.02	9,143.51	9,166.63	0.00	0.00	0.00
17,000.00	89.64	90.23	7,934.47	654.62	9,243.50	9,266.40	0.00	0.00	0.00
17,100.00	89.64	90.23	7,935.10	654.21	9,343.50	9,366.17	0.00	0.00	0.00
17,200.00	89.64	90.23	7,935.74	653.81	9,443.50	9,465.94	0.00	0.00	0.00
17,300.00	89.64	90.23	7,936.37	653.40	9,543.49	9,565.71	0.00	0.00	0.00
17,400.00	89.63	90.23	7,937.01	653.00	9,643.49	9,665.48	0.00	0.00	0.00
17,500.00	89.63	90.23	7,937.65	652.59	9,743.49	9,765.26	0.00	0.00	0.00
17,600.00	89.63	90.23	7,938.29	652.19	9,843.49	9,865.03	0.00	0.00	0.00
17,700.00	89.63	90.23	7,938.93	651.78	9,943.48	9,964.80	0.00	0.00	0.00
17,800.00	89.63	90.23	7,939.57	651.38	10,043.48	10,064.57	0.00	0.00	0.00
17,900.00	89.63	90.23	7,940.21	650.97	10,143.48	10,164.34	0.00	0.00	0.00
18,000.00	89.63	90.23	7,940.86	650.57	10,243.47	10,264.11	0.00	0.00	0.00
18,022.25	89.63	90.23	7,941.00	650.48	10,265.73	10,286.31	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)	Latitude Longitude
TT_4-3_State_21H_K	- plan hits target center	0.00	0.00	7,311.04	692.30	-58.97	617,054.61	616,767.84	32° 41' 45.910261 N 104° 5' 17.268157
TT_4-3_State_21H_B	- plan hits target center	0.00	0.00	7,941.00	650.48	10,265.73	617,012.79	627,091.64	32° 41' 45.244119 N 104° 3' 16.455200

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,025.00	3,025.00	0.00	0.00	STEP OUT DLS 2.00
3,390.55	3,388.68	31.87	-2.71	HOLD 10.DEG TANGENT
7,004.72	6,947.36	660.43	-56.25	DROP BACK TO VERTICAL DLS 2.00
7,370.27	7,311.04	692.30	-58.97	BUILD CURVE 10 DEG / 100
8,267.27	7,883.99	689.99	510.99	LANDING POINT
18,022.25	7,941.00	650.48	10,265.73	TD at 18022.25