

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. 30-015-53279
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name VANADIUM 32 STATE
8. Well Number #175H
9. OGRID Number 16696
10. Pool name or Wildcat WC-015 G-08 S233135D; WOLFCAMP

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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator OXY USA INC. (16696)	
3. Address of Operator 5 GREENWAY PLAZA, SUITE 110, HOUSTON, TX	
4. Well Location Unit Letter <u>O</u> : <u>500</u> feet from the <u>SOUTH</u> line and <u>1417</u> feet from the <u>EAST</u> line Section <u>29</u> Township <u>23S</u> Range <u>31E</u> NMPM EDDY County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3359' GL	

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☒ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☐		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐	
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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 AAPD. See the below new BHL and attached well plat. See the updated drill plan, directional attached for reference.

OLD BHL: 10' FNL 1680' FWL C-32-23S-31E
 NEW BHL: 10' FNL 2560' FWL C-32-23S-31E

THIS WELL IS THE DEFINING WELL.

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 2/17/23

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): _____

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Vanadium 32

Vanadium 32 State 175H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

07 February, 2023

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Vanadium 32 State 175H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3384.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3384.70ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 175H	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	Vanadium 32				
Site Position:		Northing:	461,451.09 usft	Latitude:	32.267517
From:	Map	Easting:	703,295.81 usft	Longitude:	-103.809343
Position Uncertainty:	2.00 ft	Slot Radius:	13.200 in		

Well	Vanadium 32 State 175H					
Well Position	+N/-S	0.00 ft	Northing:	462,212.05 usf	Latitude:	32.269552
	+E/-W	0.00 ft	Easting:	707,454.93 usf	Longitude:	-103.795875
Position Uncertainty		2.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,359.70 ft
Grid Convergence:		0.29 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	7/29/2019	6.77	59.97	47,946.00000000

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	179.68

Plan Survey Tool Program	Date	2/7/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,964.74	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM OWSG MWD + HRGM

OXY

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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	
6,160.00	0.00	0.00	6,160.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,160.47	10.00	91.84	7,155.39	-2.80	87.08	1.00	1.00	0.00	91.84	
11,028.00	10.00	91.84	10,964.11	-24.41	758.64	0.00	0.00	0.00	0.00	
11,922.80	89.85	179.68	11,524.70	-595.36	860.44	10.00	8.92	9.82	87.89	FTP (Vanadium 32
15,892.80	89.85	179.68	11,534.79	-4,565.28	882.94	0.00	0.00	0.00	0.00	
17,278.02	91.85	269.71	11,508.55	-5,451.80	6.33	6.50	0.14	6.50	88.15	
17,518.52	91.85	269.71	11,500.79	-5,453.02	-234.04	0.00	0.00	0.00	0.00	
18,902.06	91.85	359.70	11,443.95	-4,577.54	-1,118.58	6.50	0.00	6.50	88.15	
20,002.06	91.85	359.70	11,408.43	-3,478.13	-1,124.34	0.00	0.00	0.00	0.00	
20,083.01	90.64	359.70	11,406.68	-3,397.21	-1,124.76	1.50	-1.50	0.00	179.97	
22,964.74	90.64	359.70	11,374.70	-515.69	-1,139.82	0.00	0.00	0.00	0.00	PBHL (Vanadium 32

OXY

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Well:	Vanadium 32 State 175H	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
3,300.00	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
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00

OXY

Planning Report

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Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 175H	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)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,160.00	0.00	0.00	6,160.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.40	91.84	6,200.00	0.00	0.14	0.01	1.00	1.00	0.00
6,300.00	1.40	91.84	6,299.99	-0.06	1.71	0.06	1.00	1.00	0.00
6,400.00	2.40	91.84	6,399.93	-0.16	5.02	0.19	1.00	1.00	0.00
6,500.00	3.40	91.84	6,499.80	-0.32	10.08	0.38	1.00	1.00	0.00
6,600.00	4.40	91.84	6,599.57	-0.54	16.88	0.64	1.00	1.00	0.00
6,700.00	5.40	91.84	6,699.20	-0.82	25.41	0.96	1.00	1.00	0.00
6,800.00	6.40	91.84	6,798.67	-1.15	35.69	1.35	1.00	1.00	0.00
6,900.00	7.40	91.84	6,897.94	-1.53	47.70	1.80	1.00	1.00	0.00
7,000.00	8.40	91.84	6,996.99	-1.98	61.43	2.32	1.00	1.00	0.00
7,100.00	9.40	91.84	7,095.79	-2.47	76.90	2.90	1.00	1.00	0.00
7,160.47	10.00	91.84	7,155.39	-2.80	87.08	3.29	1.00	1.00	0.00
7,200.00	10.00	91.84	7,194.32	-3.02	93.95	3.55	0.00	0.00	0.00
7,300.00	10.00	91.84	7,292.80	-3.58	111.31	4.20	0.00	0.00	0.00
7,400.00	10.00	91.84	7,391.28	-4.14	128.67	4.86	0.00	0.00	0.00
7,500.00	10.00	91.84	7,489.76	-4.70	146.04	5.51	0.00	0.00	0.00
7,600.00	10.00	91.84	7,588.24	-5.26	163.40	6.17	0.00	0.00	0.00
7,700.00	10.00	91.84	7,686.72	-5.82	180.77	6.83	0.00	0.00	0.00
7,800.00	10.00	91.84	7,785.20	-6.38	198.13	7.48	0.00	0.00	0.00
7,900.00	10.00	91.84	7,883.68	-6.93	215.49	8.14	0.00	0.00	0.00
8,000.00	10.00	91.84	7,982.16	-7.49	232.86	8.79	0.00	0.00	0.00
8,100.00	10.00	91.84	8,080.64	-8.05	250.22	9.45	0.00	0.00	0.00
8,200.00	10.00	91.84	8,179.12	-8.61	267.58	10.11	0.00	0.00	0.00
8,300.00	10.00	91.84	8,277.60	-9.17	284.95	10.76	0.00	0.00	0.00
8,400.00	10.00	91.84	8,376.07	-9.73	302.31	11.42	0.00	0.00	0.00
8,500.00	10.00	91.84	8,474.55	-10.29	319.68	12.07	0.00	0.00	0.00
8,600.00	10.00	91.84	8,573.03	-10.85	337.04	12.73	0.00	0.00	0.00
8,700.00	10.00	91.84	8,671.51	-11.40	354.40	13.38	0.00	0.00	0.00
8,800.00	10.00	91.84	8,769.99	-11.96	371.77	14.04	0.00	0.00	0.00
8,900.00	10.00	91.84	8,868.47	-12.52	389.13	14.70	0.00	0.00	0.00
9,000.00	10.00	91.84	8,966.95	-13.08	406.50	15.35	0.00	0.00	0.00
9,100.00	10.00	91.84	9,065.43	-13.64	423.86	16.01	0.00	0.00	0.00
9,200.00	10.00	91.84	9,163.91	-14.20	441.22	16.66	0.00	0.00	0.00
9,300.00	10.00	91.84	9,262.39	-14.76	458.59	17.32	0.00	0.00	0.00
9,400.00	10.00	91.84	9,360.87	-15.32	475.95	17.97	0.00	0.00	0.00
9,500.00	10.00	91.84	9,459.35	-15.87	493.32	18.63	0.00	0.00	0.00
9,600.00	10.00	91.84	9,557.83	-16.43	510.68	19.29	0.00	0.00	0.00
9,700.00	10.00	91.84	9,656.31	-16.99	528.04	19.94	0.00	0.00	0.00
9,800.00	10.00	91.84	9,754.79	-17.55	545.41	20.60	0.00	0.00	0.00
9,900.00	10.00	91.84	9,853.27	-18.11	562.77	21.25	0.00	0.00	0.00
10,000.00	10.00	91.84	9,951.74	-18.67	580.14	21.91	0.00	0.00	0.00
10,100.00	10.00	91.84	10,050.22	-19.23	597.50	22.56	0.00	0.00	0.00
10,200.00	10.00	91.84	10,148.70	-19.79	614.86	23.22	0.00	0.00	0.00
10,300.00	10.00	91.84	10,247.18	-20.34	632.23	23.88	0.00	0.00	0.00
10,400.00	10.00	91.84	10,345.66	-20.90	649.59	24.53	0.00	0.00	0.00
10,500.00	10.00	91.84	10,444.14	-21.46	666.96	25.19	0.00	0.00	0.00
10,600.00	10.00	91.84	10,542.62	-22.02	684.32	25.84	0.00	0.00	0.00
10,700.00	10.00	91.84	10,641.10	-22.58	701.68	26.50	0.00	0.00	0.00

OXY

Planning Report

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Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3384.70ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 175H	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)
10,800.00	10.00	91.84	10,739.58	-23.14	719.05	27.15	0.00	0.00	0.00
10,900.00	10.00	91.84	10,838.06	-23.70	736.41	27.81	0.00	0.00	0.00
11,000.00	10.00	91.84	10,936.54	-24.26	753.77	28.47	0.00	0.00	0.00
11,028.00	10.00	91.84	10,964.11	-24.41	758.64	28.65	0.00	0.00	0.00
11,100.00	12.52	127.14	11,034.80	-29.33	771.12	33.64	10.00	3.49	49.03
11,200.00	20.14	150.97	11,130.80	-50.98	788.16	55.38	10.00	7.62	23.83
11,300.00	29.19	161.31	11,221.62	-89.24	804.37	93.73	10.00	9.06	10.34
11,400.00	38.69	166.98	11,304.51	-142.93	819.26	147.50	10.00	9.49	5.67
11,500.00	48.36	170.68	11,376.94	-210.43	832.39	215.07	10.00	9.67	3.70
11,600.00	58.12	173.41	11,436.72	-289.68	843.34	294.39	10.00	9.76	2.72
11,700.00	67.93	175.60	11,482.02	-378.28	851.79	383.04	10.00	9.81	2.20
11,800.00	77.76	177.51	11,511.48	-473.54	857.48	478.33	10.00	9.83	1.91
11,900.00	87.61	179.28	11,524.20	-572.57	860.23	577.36	10.00	9.85	1.77
11,922.80	89.85	179.68	11,524.70	-595.36	860.44	600.15	10.00	9.85	1.74
12,000.00	89.85	179.68	11,524.90	-672.56	860.88	677.35	0.00	0.00	0.00
12,100.00	89.85	179.68	11,525.15	-772.56	861.45	777.35	0.00	0.00	0.00
12,200.00	89.85	179.68	11,525.40	-872.55	862.01	877.35	0.00	0.00	0.00
12,300.00	89.85	179.68	11,525.66	-972.55	862.58	977.35	0.00	0.00	0.00
12,400.00	89.85	179.68	11,525.91	-1,072.55	863.15	1,077.35	0.00	0.00	0.00
12,500.00	89.85	179.68	11,526.17	-1,172.55	863.71	1,177.35	0.00	0.00	0.00
12,600.00	89.85	179.68	11,526.42	-1,272.55	864.28	1,277.35	0.00	0.00	0.00
12,700.00	89.85	179.68	11,526.68	-1,372.54	864.85	1,377.35	0.00	0.00	0.00
12,800.00	89.85	179.68	11,526.93	-1,472.54	865.41	1,477.35	0.00	0.00	0.00
12,900.00	89.85	179.68	11,527.18	-1,572.54	865.98	1,577.35	0.00	0.00	0.00
13,000.00	89.85	179.68	11,527.44	-1,672.54	866.55	1,677.35	0.00	0.00	0.00
13,100.00	89.85	179.68	11,527.69	-1,772.54	867.11	1,777.35	0.00	0.00	0.00
13,200.00	89.85	179.68	11,527.95	-1,872.53	867.68	1,877.35	0.00	0.00	0.00
13,300.00	89.85	179.68	11,528.20	-1,972.53	868.25	1,977.35	0.00	0.00	0.00
13,400.00	89.85	179.68	11,528.45	-2,072.53	868.81	2,077.35	0.00	0.00	0.00
13,500.00	89.85	179.68	11,528.71	-2,172.53	869.38	2,177.35	0.00	0.00	0.00
13,600.00	89.85	179.68	11,528.96	-2,272.53	869.95	2,277.35	0.00	0.00	0.00
13,700.00	89.85	179.68	11,529.22	-2,372.52	870.51	2,377.35	0.00	0.00	0.00
13,800.00	89.85	179.68	11,529.47	-2,472.52	871.08	2,477.35	0.00	0.00	0.00
13,900.00	89.85	179.68	11,529.72	-2,572.52	871.65	2,577.35	0.00	0.00	0.00
14,000.00	89.85	179.68	11,529.98	-2,672.52	872.21	2,677.35	0.00	0.00	0.00
14,100.00	89.85	179.68	11,530.23	-2,772.52	872.78	2,777.35	0.00	0.00	0.00
14,200.00	89.85	179.68	11,530.49	-2,872.51	873.35	2,877.35	0.00	0.00	0.00
14,300.00	89.85	179.68	11,530.74	-2,972.51	873.91	2,977.35	0.00	0.00	0.00
14,400.00	89.85	179.68	11,530.99	-3,072.51	874.48	3,077.35	0.00	0.00	0.00
14,500.00	89.85	179.68	11,531.25	-3,172.51	875.05	3,177.35	0.00	0.00	0.00
14,600.00	89.85	179.68	11,531.50	-3,272.51	875.61	3,277.35	0.00	0.00	0.00
14,700.00	89.85	179.68	11,531.76	-3,372.51	876.18	3,377.35	0.00	0.00	0.00
14,800.00	89.85	179.68	11,532.01	-3,472.50	876.75	3,477.35	0.00	0.00	0.00
14,900.00	89.85	179.68	11,532.27	-3,572.50	877.31	3,577.35	0.00	0.00	0.00
15,000.00	89.85	179.68	11,532.52	-3,672.50	877.88	3,677.34	0.00	0.00	0.00
15,100.00	89.85	179.68	11,532.77	-3,772.50	878.45	3,777.34	0.00	0.00	0.00
15,200.00	89.85	179.68	11,533.03	-3,872.50	879.01	3,877.34	0.00	0.00	0.00
15,300.00	89.85	179.68	11,533.28	-3,972.49	879.58	3,977.34	0.00	0.00	0.00
15,400.00	89.85	179.68	11,533.54	-4,072.49	880.15	4,077.34	0.00	0.00	0.00
15,500.00	89.85	179.68	11,533.79	-4,172.49	880.71	4,177.34	0.00	0.00	0.00
15,600.00	89.85	179.68	11,534.04	-4,272.49	881.28	4,277.34	0.00	0.00	0.00
15,700.00	89.85	179.68	11,534.30	-4,372.49	881.85	4,377.34	0.00	0.00	0.00
15,800.00	89.85	179.68	11,534.55	-4,472.48	882.41	4,477.34	0.00	0.00	0.00
15,892.80	89.85	179.68	11,534.79	-4,565.28	882.94	4,570.14	0.00	0.00	0.00
15,900.00	89.87	180.14	11,534.81	-4,572.48	882.95	4,577.34	6.50	0.21	6.50

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Vanadium 32 State 175H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3384.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3384.70ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 175H	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)
16,000.00	90.08	186.64	11,534.85	-4,672.25	877.04	4,677.08	6.50	0.21	6.50
16,100.00	90.29	193.14	11,534.53	-4,770.71	859.88	4,775.44	6.50	0.21	6.50
16,200.00	90.49	199.63	11,533.84	-4,866.60	831.68	4,871.17	6.50	0.21	6.50
16,300.00	90.69	206.13	11,532.80	-4,958.68	792.82	4,963.03	6.50	0.20	6.50
16,400.00	90.88	212.63	11,531.42	-5,045.76	743.79	5,049.84	6.50	0.19	6.50
16,500.00	91.06	219.13	11,529.72	-5,126.73	685.23	5,130.48	6.50	0.18	6.50
16,600.00	91.23	225.63	11,527.72	-5,200.55	617.88	5,203.92	6.50	0.17	6.50
16,700.00	91.38	232.13	11,525.44	-5,266.27	542.61	5,269.22	6.50	0.15	6.50
16,800.00	91.51	238.63	11,522.92	-5,323.04	460.39	5,325.53	6.50	0.13	6.50
16,900.00	91.62	245.13	11,520.19	-5,370.13	372.27	5,372.13	6.50	0.11	6.50
17,000.00	91.71	251.63	11,517.27	-5,406.94	279.40	5,408.42	6.50	0.09	6.50
17,100.00	91.78	258.13	11,514.22	-5,433.00	182.96	5,433.93	6.50	0.07	6.50
17,200.00	91.83	264.64	11,511.06	-5,447.96	84.19	5,448.35	6.50	0.05	6.50
17,278.02	91.85	269.71	11,508.55	-5,451.80	6.33	5,451.75	6.50	0.03	6.50
17,300.00	91.85	269.71	11,507.84	-5,451.92	-15.64	5,451.74	0.00	0.00	0.00
17,400.00	91.85	269.71	11,504.62	-5,452.42	-115.59	5,451.69	0.00	0.00	0.00
17,500.00	91.85	269.71	11,501.39	-5,452.93	-215.53	5,451.64	0.00	0.00	0.00
17,518.52	91.85	269.71	11,500.79	-5,453.02	-234.04	5,451.63	0.00	0.00	0.00
17,600.00	92.01	275.01	11,498.04	-5,449.67	-315.38	5,447.83	6.50	0.20	6.50
17,700.00	92.19	281.51	11,494.37	-5,435.33	-414.22	5,432.93	6.50	0.18	6.50
17,800.00	92.34	288.01	11,490.42	-5,409.88	-510.79	5,406.95	6.50	0.15	6.50
17,900.00	92.45	294.52	11,486.23	-5,373.67	-603.85	5,370.21	6.50	0.12	6.50
18,000.00	92.54	301.02	11,481.87	-5,327.14	-692.21	5,323.20	6.50	0.09	6.51
18,100.00	92.59	307.53	11,477.39	-5,270.91	-774.71	5,266.51	6.50	0.05	6.51
18,200.00	92.61	314.04	11,472.84	-5,205.70	-850.31	5,200.87	6.50	0.02	6.51
18,300.00	92.60	320.54	11,468.28	-5,132.34	-918.04	5,127.13	6.50	-0.01	6.51
18,400.00	92.55	327.05	11,463.78	-5,051.77	-977.01	5,046.23	6.50	-0.05	6.51
18,500.00	92.48	333.55	11,459.39	-4,965.04	-1,026.48	4,959.23	6.50	-0.08	6.51
18,600.00	92.36	340.06	11,455.16	-4,873.25	-1,065.81	4,867.22	6.50	-0.11	6.50
18,700.00	92.22	346.56	11,451.15	-4,777.59	-1,094.49	4,771.40	6.50	-0.14	6.50
18,800.00	92.05	353.07	11,447.42	-4,679.29	-1,112.15	4,673.00	6.50	-0.17	6.50
18,900.00	91.85	359.57	11,444.01	-4,579.61	-1,118.57	4,573.29	6.50	-0.20	6.50
18,902.06	91.85	359.70	11,443.95	-4,577.54	-1,118.58	4,571.23	6.50	-0.21	6.50
19,000.00	91.85	359.70	11,440.78	-4,479.66	-1,119.09	4,473.34	0.00	0.00	0.00
19,100.00	91.85	359.70	11,437.56	-4,379.71	-1,119.62	4,373.39	0.00	0.00	0.00
19,200.00	91.85	359.70	11,434.33	-4,279.77	-1,120.14	4,273.44	0.00	0.00	0.00
19,300.00	91.85	359.70	11,431.10	-4,179.82	-1,120.66	4,173.49	0.00	0.00	0.00
19,400.00	91.85	359.70	11,427.87	-4,079.87	-1,121.19	4,073.55	0.00	0.00	0.00
19,500.00	91.85	359.70	11,424.64	-3,979.93	-1,121.71	3,973.60	0.00	0.00	0.00
19,600.00	91.85	359.70	11,421.41	-3,879.98	-1,122.23	3,873.65	0.00	0.00	0.00
19,700.00	91.85	359.70	11,418.19	-3,780.03	-1,122.76	3,773.70	0.00	0.00	0.00
19,800.00	91.85	359.70	11,414.96	-3,680.09	-1,123.28	3,673.76	0.00	0.00	0.00
19,900.00	91.85	359.70	11,411.73	-3,580.14	-1,123.80	3,573.81	0.00	0.00	0.00
20,000.00	91.85	359.70	11,408.50	-3,480.19	-1,124.33	3,473.86	0.00	0.00	0.00
20,002.06	91.85	359.70	11,408.43	-3,478.13	-1,124.34	3,471.80	0.00	0.00	0.00
20,083.01	90.64	359.70	11,406.68	-3,397.21	-1,124.76	3,390.87	1.50	-1.50	0.00
20,100.00	90.64	359.70	11,406.49	-3,380.22	-1,124.85	3,373.88	0.00	0.00	0.00
20,200.00	90.64	359.70	11,405.38	-3,280.23	-1,125.37	3,273.89	0.00	0.00	0.00
20,300.00	90.64	359.70	11,404.27	-3,180.23	-1,125.89	3,173.89	0.00	0.00	0.00
20,400.00	90.64	359.70	11,403.16	-3,080.24	-1,126.42	3,073.90	0.00	0.00	0.00
20,500.00	90.64	359.70	11,402.05	-2,980.25	-1,126.94	2,973.91	0.00	0.00	0.00
20,600.00	90.64	359.70	11,400.94	-2,880.26	-1,127.46	2,873.91	0.00	0.00	0.00
20,700.00	90.64	359.70	11,399.83	-2,780.26	-1,127.98	2,773.92	0.00	0.00	0.00
20,800.00	90.64	359.70	11,398.72	-2,680.27	-1,128.51	2,673.93	0.00	0.00	0.00
20,900.00	90.64	359.70	11,397.61	-2,580.28	-1,129.03	2,573.93	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Vanadium 32 State 175H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3384.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3384.70ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 175H	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)
21,000.00	90.64	359.70	11,396.50	-2,480.29	-1,129.55	2,473.94	0.00	0.00	0.00
21,100.00	90.64	359.70	11,395.39	-2,380.29	-1,130.08	2,373.94	0.00	0.00	0.00
21,200.00	90.64	359.70	11,394.28	-2,280.30	-1,130.60	2,273.95	0.00	0.00	0.00
21,300.00	90.64	359.70	11,393.17	-2,180.31	-1,131.12	2,173.96	0.00	0.00	0.00
21,400.00	90.64	359.70	11,392.06	-2,080.32	-1,131.64	2,073.96	0.00	0.00	0.00
21,500.00	90.64	359.70	11,390.95	-1,980.32	-1,132.17	1,973.97	0.00	0.00	0.00
21,600.00	90.64	359.70	11,389.84	-1,880.33	-1,132.69	1,873.97	0.00	0.00	0.00
21,700.00	90.64	359.70	11,388.73	-1,780.34	-1,133.21	1,773.98	0.00	0.00	0.00
21,800.00	90.64	359.70	11,387.63	-1,680.35	-1,133.73	1,673.99	0.00	0.00	0.00
21,900.00	90.64	359.70	11,386.52	-1,580.35	-1,134.26	1,573.99	0.00	0.00	0.00
22,000.00	90.64	359.70	11,385.41	-1,480.36	-1,134.78	1,474.00	0.00	0.00	0.00
22,100.00	90.64	359.70	11,384.30	-1,380.37	-1,135.30	1,374.01	0.00	0.00	0.00
22,200.00	90.64	359.70	11,383.19	-1,280.38	-1,135.82	1,274.01	0.00	0.00	0.00
22,300.00	90.64	359.70	11,382.08	-1,180.38	-1,136.35	1,174.02	0.00	0.00	0.00
22,400.00	90.64	359.70	11,380.97	-1,080.39	-1,136.87	1,074.02	0.00	0.00	0.00
22,500.00	90.64	359.70	11,379.86	-980.40	-1,137.39	974.03	0.00	0.00	0.00
22,600.00	90.64	359.70	11,378.75	-880.41	-1,137.91	874.04	0.00	0.00	0.00
22,700.00	90.64	359.70	11,377.64	-780.41	-1,138.44	774.04	0.00	0.00	0.00
22,800.00	90.64	359.70	11,376.53	-680.42	-1,138.96	674.05	0.00	0.00	0.00
22,900.00	90.64	359.70	11,375.42	-580.43	-1,139.48	574.06	0.00	0.00	0.00
22,964.74	90.64	359.70	11,374.70	-515.69	-1,139.82	509.32	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Vanadium 32 - plan hits target center - Point	0.00	0.00	11,374.70	-515.69	-1,139.82	461,696.39	706,315.18	32.268150	-103.799571
DP2 (Vanadium 32 - plan misses target center by 22.24ft at 18964.52ft MD (11441.93 TVD, -4515.12 N, -1118.91 E) - Point	0.00	0.00	11,419.70	-4,515.84	-1,118.96	457,696.49	706,336.04	32.257155	-103.799568
FTP (Vanadium 32 - plan hits target center - Point	0.00	0.00	11,524.70	-595.36	860.44	461,616.73	708,315.32	32.267904	-103.793101
DP1 (Vanadium 32 - plan hits target center - Point	0.00	0.00	11,534.70	-4,530.78	882.74	457,681.55	708,337.62	32.257087	-103.793093

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Vanadium 32 State 175H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3384.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3384.70ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 175H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
400.70	400.70	RUSTLER			
747.70	747.70	SALADO			
2,698.70	2,698.70	CASTILE			
4,157.70	4,157.70	DELAWARE			
4,183.70	4,183.70	BELL CANYON			
5,067.70	5,067.70	CHERRY CANYON			
6,380.75	6,380.70	BRUSHY CANYON			
7,999.54	7,981.70	BONE SPRING			
9,059.66	9,025.70	BONE SPRING 1ST			
9,728.83	9,684.70	BONE SPRING 2ND			
10,894.56	10,832.70	BONE SPRING 3RD			
11,398.97	11,303.70	WOLFCAMP			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
6,160.00	6,160.00	0.00	0.00	Build 1°/100'	
7,160.47	7,155.39	-2.80	87.08	Hold 10° Tangent	
11,028.00	10,964.11	-24.41	758.64	KOP, Build & Turn 10°/100'	
11,922.80	11,524.70	-595.36	860.44	Landing Point	
15,892.80	11,534.79	-4,565.28	882.94	Build & Turn 6.5°/100'	
17,278.02	11,508.55	-5,451.80	6.33	Hold	
17,518.52	11,500.79	-5,453.02	-234.04	Turn 6.5°/100'	
18,902.06	11,443.95	-4,577.54	-1,118.58	Hold	
20,002.06	11,408.43	-3,478.13	-1,124.34	Drop 1.5°/100'	
20,083.01	11,406.68	-3,397.21	-1,124.76	Hold	
22,964.74	11,374.70	-515.69	-1,139.82	TD at 22964.74' MD	

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Vanadium 32

Well: Vanadium 32 State 175H

Wellbore: Wellbore #1

Design: Permitting Plan

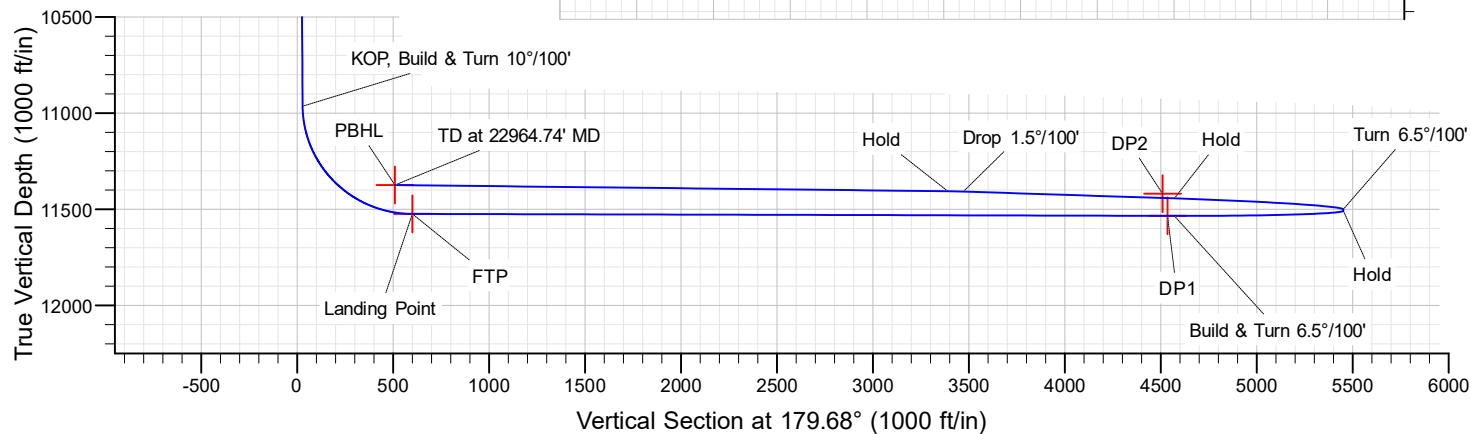
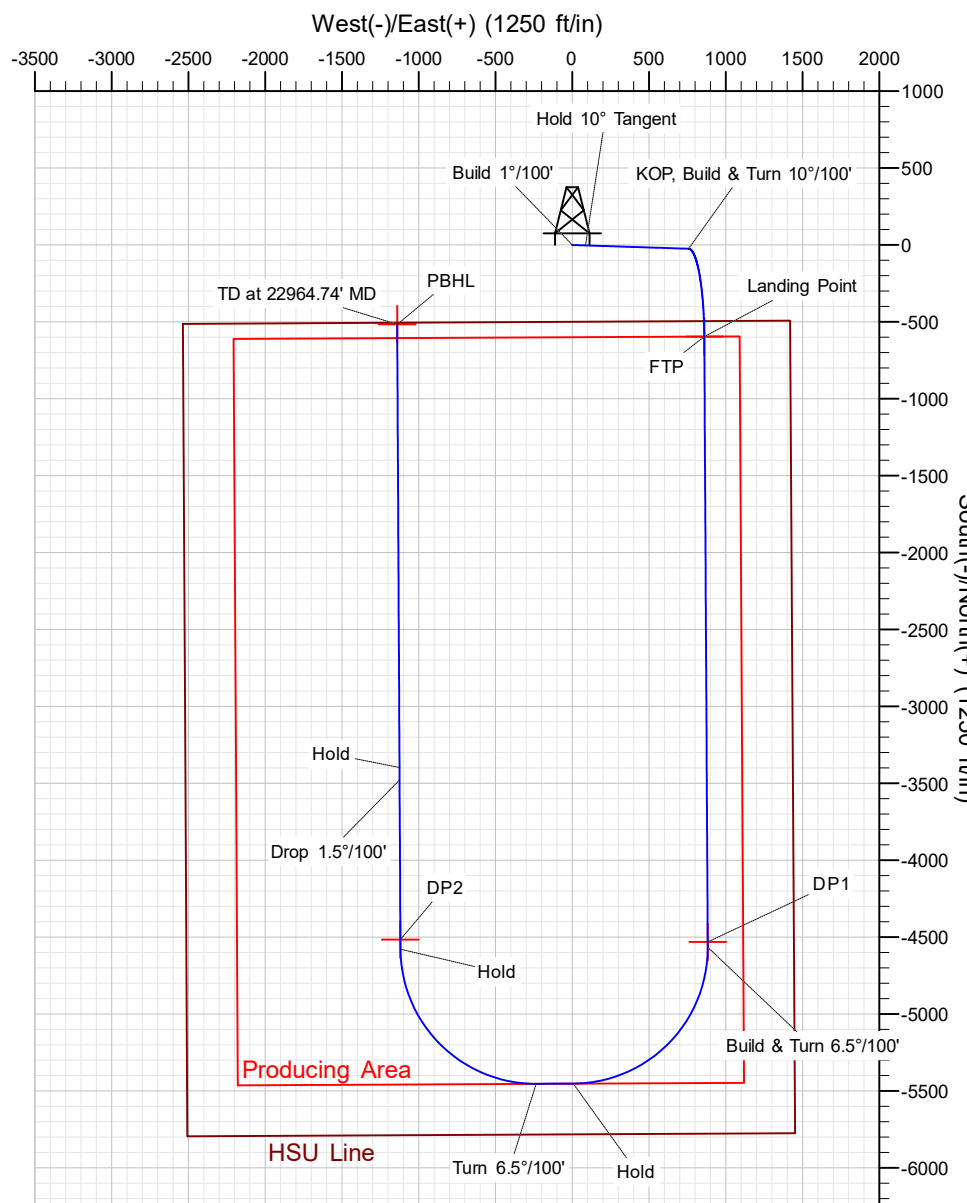
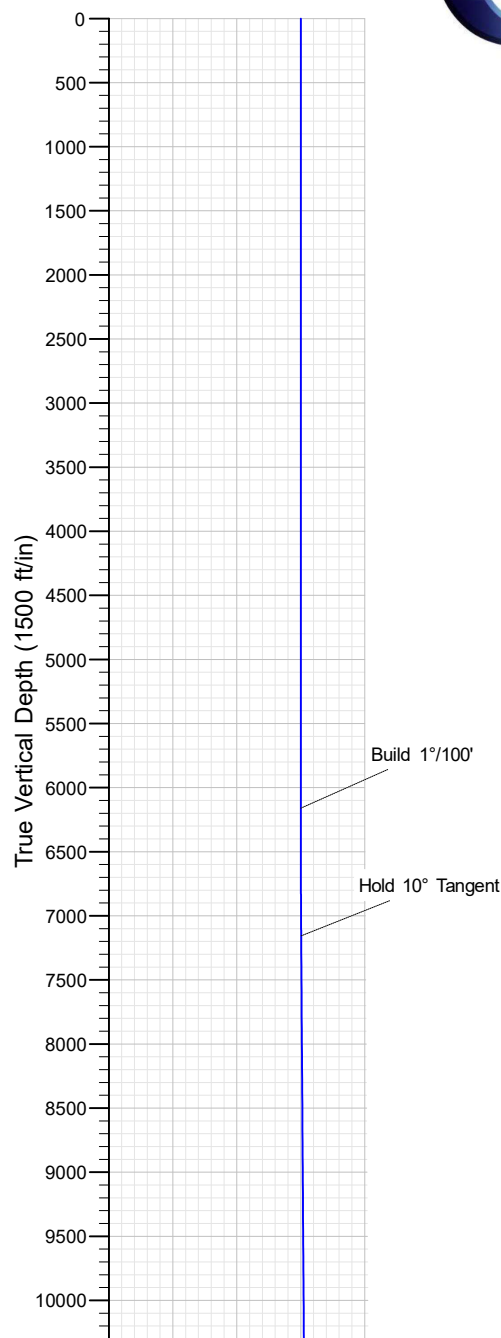


WELL DETAILS: Vanadium 32 State 175H

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	462212.05	3359.70 707454.93	32.269552	-103.795875

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6160.00	0.00	0.00	6160.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
7160.47	10.00	91.84	7155.39	-2.80	87.08	1.00	91.84	3.29	Hold 10° Tangent
11028.00	10.00	91.84	10964.11	-24.41	758.64	0.00	0.00	28.65	KOP, Build & Turn 10°/100'
11922.80	89.85	179.68	11524.70	-595.36	860.44	10.00	87.89	600.15	Landing Point
15892.80	89.85	179.68	11534.79	-4565.28	882.94	0.00	0.00	4570.14	Build & Turn 6.5°/100'
17278.02	91.85	269.71	11508.55	-5451.80	6.33	6.50	88.15	5451.75	Hold
17518.52	91.85	269.71	11500.79	-5453.02	-234.04	0.00	0.00	5451.63	Turn 6.5°/100'
18902.06	91.85	359.70	11443.94	-4577.54	-1118.58	6.50	88.15	4571.23	Hold
20002.06	91.85	359.70	11408.43	-3478.13	-1124.34	0.00	0.00	3471.80	Drop 1.5°/100'
20083.01	90.64	359.70	11406.68	-3397.21	-1124.76	1.50	179.97	3390.87	Hold
22964.74	90.64	359.70	11374.70	-515.69	-1139.82	0.00	0.00	509.32	TD at 22964.74' MD



Oxy USA Inc. - Vanadium 32 State 175H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	11525	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22965	Deepest Expected Fresh Water (ft):	401

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	401	401	
Salado	748	748	Salt
Castile	2699	2699	Salt
Delaware	4158	4158	Oil/Gas/Brine
Bell Canyon	4184	4184	Oil/Gas/Brine
Cherry Canyon	5068	5068	Oil/Gas/Brine
Brushy Canyon	6381	6381	Losses
Bone Spring	8000	7982	Oil/Gas
Bone Spring 1st	9060	9026	Oil/Gas
Bone Spring 2nd	9729	9685	Oil/Gas
Bone Spring 3rd	10895	10833	Oil/Gas
Wolfcamp	11399	11304	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	461	0	461	13.375	54.5	J-55	BTC
Salt	12.25	0	4258	0	4258	9.625	40	L-80 HC	BTC
Intermediate	8.75	0	10928	0	10864	7.625	26.4	L-80 HC	Wedge 425
Production	6.75	0	22965	0	11525	5.5	20	P-110	Wedge 461

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.125	1.2	1.4	1.4

Annular Clearance Variance Request

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

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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	482	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	141	1.33	14.8	20%	3,758	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	992	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	275	1.65	13.2	5%	6,631	Circulate	Class H+Accel., Disper., Salt
Int. 2	2	Intermediate 2S - Tail BH	445	1.71	13.3	25%	-	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	947	1.38	13.2	25%	10,428	Circulate	Class H+Ret., Disper., Salt

Offline Cementing

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.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well 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.

The summarized operational sequence will be as follows:

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

Oxy 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.

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	3M	Annular	✓	70% of working pressure	4258
		3M	Blind Ram	✓	250 psi / 3000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	10864
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	11525
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

*Specify if additional ram is utilized

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

	Formation integrity test will be performed per Onshore Order #2.
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

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

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

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

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

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

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		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	461	0	461	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	461	4258	461	4258	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4258	10928	4258	10864	Water-Based or Oil-Based Mud	8.0 - 10.0	38-50	N/C
Production	10928	22965	10864	11525	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, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

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

6. Logging and Testing Procedures

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
Yes	Mud log
No	PEX

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7492 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	173°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 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: 1720 bbls

Attachments

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

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 187659

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 187659
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	2/27/2023