

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 26 2019

RECEIVED

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Vanadium 32

Vanadium 32 State 177H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

14 August, 2019

Oxy

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Vanadium 32 State 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3386.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3386.90ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 177H	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
From:	Map	Easting:	703,295.81 usft
Position Uncertainty:	2.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 16' 3.060951 N
		Longitude:	103° 48' 33.635206 W
		Grid Convergence:	0.28 °

Well	Vanadium 32 State 177H		
Well Position	+N/-S	778.54 ft	Northing: 462,229.58 usft
	+E/-W	4,595.43 ft	Easting: 707,890.95 usft
Position Uncertainty	1.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32° 16' 10.539374 N
		Longitude:	103° 47' 40.071055 W
		Ground Level:	3,360.40 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	HDGM	8/14/2019	6.78
			Dip Angle
			59.97
			Field Strength
			47,929

Design	Permitting Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			174.31

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	
5,718.00	0.00	0.00	5,718.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,217.96	10.00	88.31	6,215.42	1.28	43.50	2.00	2.00	0.00	88.31	
8,722.67	10.00	88.31	8,682.09	14.09	478.21	0.00	0.00	0.00	0.00	
9,436.20	10.00	179.66	9,388.44	-46.35	540.82	2.00	0.00	12.80	135.23	
10,237.87	90.17	179.66	9,861.90	-612.26	544.22	10.00	10.00	0.00	0.00	FTP (Vanadium 32)
15,400.21	90.17	179.66	9,846.90	-5,774.48	575.23	0.00	0.00	0.00	0.00	PBHL (Vanadium 32)

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Well:	Vanadium 32 State 177H	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

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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)	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	
5,718.00	0.00	0.00	5,718.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,800.00	1.64	88.31	5,799.99	0.03	1.17	0.08	2.00	2.00	0.00	
5,900.00	3.64	88.31	5,899.88	0.17	5.78	0.40	2.00	2.00	0.00	
6,000.00	5.64	88.31	5,999.54	0.41	13.86	0.97	2.00	2.00	0.00	
6,100.00	7.64	88.31	6,098.87	0.75	25.42	1.77	2.00	2.00	0.00	
6,200.00	9.64	88.31	6,197.73	1.19	40.44	2.82	2.00	2.00	0.00	
6,217.96	10.00	88.31	6,215.42	1.28	43.50	3.04	2.00	2.00	0.00	
6,300.00	10.00	88.31	6,296.22	1.70	57.74	4.03	0.00	0.00	0.00	
6,400.00	10.00	88.31	6,394.70	2.21	75.09	5.24	0.00	0.00	0.00	
6,500.00	10.00	88.31	6,493.18	2.72	92.45	6.45	0.00	0.00	0.00	
6,600.00	10.00	88.31	6,591.66	3.24	109.80	7.66	0.00	0.00	0.00	
6,700.00	10.00	88.31	6,690.14	3.75	127.16	8.88	0.00	0.00	0.00	
6,800.00	10.00	88.31	6,788.63	4.26	144.51	10.09	0.00	0.00	0.00	
6,900.00	10.00	88.31	6,887.11	4.77	161.87	11.30	0.00	0.00	0.00	
7,000.00	10.00	88.31	6,985.59	5.28	179.23	12.51	0.00	0.00	0.00	
7,100.00	10.00	88.31	7,084.07	5.79	196.58	13.72	0.00	0.00	0.00	
7,200.00	10.00	88.31	7,182.55	6.30	213.94	14.93	0.00	0.00	0.00	
7,300.00	10.00	88.31	7,281.03	6.81	231.29	16.15	0.00	0.00	0.00	
7,400.00	10.00	88.31	7,379.51	7.33	248.65	17.36	0.00	0.00	0.00	
7,500.00	10.00	88.31	7,477.99	7.84	266.01	18.57	0.00	0.00	0.00	
7,600.00	10.00	88.31	7,576.47	8.35	283.36	19.78	0.00	0.00	0.00	
7,700.00	10.00	88.31	7,674.95	8.86	300.72	20.99	0.00	0.00	0.00	
7,800.00	10.00	88.31	7,773.44	9.37	318.07	22.20	0.00	0.00	0.00	
7,900.00	10.00	88.31	7,871.92	9.88	335.43	23.41	0.00	0.00	0.00	
8,000.00	10.00	88.31	7,970.40	10.39	352.78	24.63	0.00	0.00	0.00	
8,100.00	10.00	88.31	8,068.88	10.91	370.14	25.84	0.00	0.00	0.00	
8,200.00	10.00	88.31	8,167.36	11.42	387.50	27.05	0.00	0.00	0.00	
8,300.00	10.00	88.31	8,265.84	11.93	404.85	28.26	0.00	0.00	0.00	
8,400.00	10.00	88.31	8,364.32	12.44	422.21	29.47	0.00	0.00	0.00	
8,500.00	10.00	88.31	8,462.80	12.95	439.56	30.68	0.00	0.00	0.00	
8,600.00	10.00	88.31	8,561.28	13.46	456.92	31.90	0.00	0.00	0.00	
8,700.00	10.00	88.31	8,659.76	13.97	474.27	33.11	0.00	0.00	0.00	
8,722.67	10.00	88.31	8,682.09	14.09	478.21	33.38	0.00	0.00	0.00	
8,800.00	8.97	95.32	8,758.37	13.73	490.92	35.00	2.00	-1.33	9.06	
8,900.00	7.88	106.83	8,857.29	11.02	505.25	39.12	2.00	-1.08	11.52	
9,000.00	7.20	121.21	8,956.44	5.79	517.17	45.51	2.00	-0.68	14.37	
9,100.00	7.04	137.35	9,055.67	-1.97	526.68	54.16	2.00	-0.16	16.14	
9,200.00	7.42	152.99	9,154.89	-12.23	533.77	65.08	2.00	0.39	15.64	
9,300.00	8.29	166.23	9,253.96	-24.98	538.42	78.23	2.00	0.86	13.24	
9,400.00	9.50	176.57	9,352.76	-40.22	540.63	93.62	2.00	1.21	10.33	
9,436.20	10.00	179.66	9,388.44	-46.35	540.82	99.73	2.00	1.38	8.54	
9,500.00	16.38	179.66	9,450.52	-60.90	540.91	114.22	10.00	10.00	0.00	
9,600.00	26.38	179.66	9,543.52	-97.31	541.13	150.47	10.00	10.00	0.00	
9,700.00	36.38	179.66	9,628.79	-149.31	541.44	202.25	10.00	10.00	0.00	
9,800.00	46.38	179.66	9,703.73	-215.33	541.84	267.98	10.00	10.00	0.00	
9,900.00	56.38	179.66	9,766.06	-293.36	542.31	345.67	10.00	10.00	0.00	
10,000.00	66.38	179.66	9,813.90	-381.03	542.83	432.96	10.00	10.00	0.00	
10,100.00	76.38	179.66	9,845.79	-475.67	543.40	527.19	10.00	10.00	0.00	
10,200.00	86.38	179.66	9,860.76	-574.42	544.00	625.51	10.00	10.00	0.00	
10,237.87	90.17	179.66	9,861.90	-612.26	544.22	663.19	10.00	10.00	0.00	

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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	90.17	179.66	9,861.72	-674.39	544.60	725.05	0.00	0.00	0.00
10,400.00	90.17	179.66	9,861.43	-774.39	545.20	824.62	0.00	0.00	0.00
10,500.00	90.17	179.66	9,861.14	-874.39	545.80	924.18	0.00	0.00	0.00
10,600.00	90.17	179.66	9,860.85	-974.38	546.40	1,023.75	0.00	0.00	0.00
10,700.00	90.17	179.66	9,860.56	-1,074.38	547.00	1,123.31	0.00	0.00	0.00
10,800.00	90.17	179.66	9,860.27	-1,174.38	547.60	1,222.88	0.00	0.00	0.00
10,900.00	90.17	179.66	9,859.98	-1,274.38	548.20	1,322.44	0.00	0.00	0.00
11,000.00	90.17	179.66	9,859.69	-1,374.37	548.80	1,422.01	0.00	0.00	0.00
11,100.00	90.17	179.66	9,859.40	-1,474.37	549.40	1,521.57	0.00	0.00	0.00
11,200.00	90.17	179.66	9,859.10	-1,574.37	550.00	1,621.13	0.00	0.00	0.00
11,300.00	90.17	179.66	9,858.81	-1,674.37	550.60	1,720.70	0.00	0.00	0.00
11,400.00	90.17	179.66	9,858.52	-1,774.37	551.20	1,820.26	0.00	0.00	0.00
11,500.00	90.17	179.66	9,858.23	-1,874.36	551.80	1,919.83	0.00	0.00	0.00
11,600.00	90.17	179.66	9,857.94	-1,974.36	552.40	2,019.39	0.00	0.00	0.00
11,700.00	90.17	179.66	9,857.65	-2,074.36	553.00	2,118.96	0.00	0.00	0.00
11,800.00	90.17	179.66	9,857.36	-2,174.36	553.60	2,218.52	0.00	0.00	0.00
11,900.00	90.17	179.66	9,857.07	-2,274.35	554.21	2,318.09	0.00	0.00	0.00
12,000.00	90.17	179.66	9,856.78	-2,374.35	554.81	2,417.65	0.00	0.00	0.00
12,100.00	90.17	179.66	9,856.49	-2,474.35	555.41	2,517.22	0.00	0.00	0.00
12,200.00	90.17	179.66	9,856.20	-2,574.35	556.01	2,616.78	0.00	0.00	0.00
12,300.00	90.17	179.66	9,855.91	-2,674.35	556.61	2,716.35	0.00	0.00	0.00
12,400.00	90.17	179.66	9,855.62	-2,774.34	557.21	2,815.91	0.00	0.00	0.00
12,500.00	90.17	179.66	9,855.33	-2,874.34	557.81	2,915.48	0.00	0.00	0.00
12,600.00	90.17	179.66	9,855.04	-2,974.34	558.41	3,015.04	0.00	0.00	0.00
12,700.00	90.17	179.66	9,854.75	-3,074.34	559.01	3,114.61	0.00	0.00	0.00
12,800.00	90.17	179.66	9,854.46	-3,174.33	559.61	3,214.17	0.00	0.00	0.00
12,900.00	90.17	179.66	9,854.16	-3,274.33	560.21	3,313.74	0.00	0.00	0.00
13,000.00	90.17	179.66	9,853.87	-3,374.33	560.81	3,413.30	0.00	0.00	0.00
13,100.00	90.17	179.66	9,853.58	-3,474.33	561.41	3,512.87	0.00	0.00	0.00
13,200.00	90.17	179.66	9,853.29	-3,574.33	562.01	3,612.43	0.00	0.00	0.00
13,300.00	90.17	179.66	9,853.00	-3,674.32	562.61	3,712.00	0.00	0.00	0.00
13,400.00	90.17	179.66	9,852.71	-3,774.32	563.21	3,811.56	0.00	0.00	0.00
13,500.00	90.17	179.66	9,852.42	-3,874.32	563.81	3,911.13	0.00	0.00	0.00
13,600.00	90.17	179.66	9,852.13	-3,974.32	564.41	4,010.69	0.00	0.00	0.00
13,700.00	90.17	179.66	9,851.84	-4,074.31	565.01	4,110.26	0.00	0.00	0.00
13,800.00	90.17	179.66	9,851.55	-4,174.31	565.62	4,209.82	0.00	0.00	0.00
13,900.00	90.17	179.66	9,851.26	-4,274.31	566.22	4,309.39	0.00	0.00	0.00
14,000.00	90.17	179.66	9,850.97	-4,374.31	566.82	4,408.95	0.00	0.00	0.00
14,100.00	90.17	179.66	9,850.68	-4,474.31	567.42	4,508.51	0.00	0.00	0.00
14,200.00	90.17	179.66	9,850.39	-4,574.30	568.02	4,608.08	0.00	0.00	0.00
14,300.00	90.17	179.66	9,850.10	-4,674.30	568.62	4,707.64	0.00	0.00	0.00
14,400.00	90.17	179.66	9,849.81	-4,774.30	569.22	4,807.21	0.00	0.00	0.00
14,500.00	90.17	179.66	9,849.52	-4,874.30	569.82	4,906.77	0.00	0.00	0.00
14,600.00	90.17	179.66	9,849.23	-4,974.29	570.42	5,006.34	0.00	0.00	0.00
14,700.00	90.17	179.66	9,848.93	-5,074.29	571.02	5,105.90	0.00	0.00	0.00
14,800.00	90.17	179.66	9,848.64	-5,174.29	571.62	5,205.47	0.00	0.00	0.00
14,900.00	90.17	179.66	9,848.35	-5,274.29	572.22	5,305.03	0.00	0.00	0.00
15,000.00	90.17	179.66	9,848.06	-5,374.29	572.82	5,404.60	0.00	0.00	0.00
15,100.00	90.17	179.66	9,847.77	-5,474.28	573.42	5,504.16	0.00	0.00	0.00
15,200.00	90.17	179.66	9,847.48	-5,574.28	574.02	5,603.73	0.00	0.00	0.00
15,300.00	90.17	179.66	9,847.19	-5,674.28	574.62	5,703.29	0.00	0.00	0.00
15,400.00	90.17	179.66	9,846.90	-5,774.28	575.22	5,802.86	0.00	0.00	0.00
15,400.21	90.17	179.66	9,846.90	-5,774.48	575.23	5,803.06	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Vanadium 32 State 177H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3386.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3386.90ft
Site:	Vanadium 32	North Reference:	Grid
Well:	Vanadium 32 State 177H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
PBHL (Vanadium 32		0.00	0.00	9,846.90	-5,774.48	575.23	456,455.45	708,466.14	32° 15' 13.372471 N	103° 47' 33.710533
- plan hits target center										
- Point										
FTP (Vanadium 32		0.00	0.00	9,861.90	-612.26	544.22	461,617.36	708,435.14	32° 16' 4.454033 N	103° 47' 33.768774
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
5,718.00	5,718.00	0.00	0.00	Build 2.00°/100'	
6,217.96	6,215.42	1.28	43.50	Hold 10.00° Tangent	
8,722.67	8,682.09	14.09	478.21	Turn 2.00°/100'	
9,436.20	9,388.44	-46.35	540.82	KOP, Build 10.00°/100'	
10,237.87	9,861.90	-612.26	544.22	Landing Point	
15,400.21	9,846.90	-5,774.48	575.23	TD at 15400.21' MD	



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Vanadium 32
Well: Vanadium 32 State 177H
Wellbore: Wellbore #1
Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

WELL DETAILS: Vanadium 32 State 177H

+N/-S	+E/-W	Northing	Ground Level Easting	Latitude	Longitude
0.00	0.00	462229.58	707890.95	32° 16' 10.539374 N	103° 47' 40.071055 W

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	
5718.00	0.00	0.00	5718.00	0.00	0.00	0.00	0.00	0.00	Build 2.00°/100'
6217.96	10.00	88.31	6215.42	1.28	43.50	2.00	88.31	3.04	Hold 10.00° Tangent
8722.87	10.00	88.31	8682.09	14.09	478.21	0.00	0.00	33.38	Turn 2.00°/100'
9436.20	10.00	179.66	9388.44	-46.35	540.82	2.00	135.23	99.73	KOP, Build 10.00°/100'
10237.87	90.17	179.66	9881.90	-612.26	544.22	10.00	0.00	663.19	Landing Point
15400.21	90.17	179.66	9846.90	-5774.48	575.23	0.00	0.00	5803.06	TD at 15400.21' MD

