



Marathon Oil

Marathon Oil

Eddy County, NM

El Presidente State X

No. 4H

30-015-44165

OH

Design: MWD 60' - 13926' PTB 13475'

Standard Survey Report

29 June, 2017



PRODIRECTIONAL

Marathon Oil Eddy County, NM El Presidente State X No. 4H OH MWD 60' - 13926' PTB 13475'	Well No. 4H Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480)) Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480)) Grid Minimum Curvature WellPlanner1
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Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum: Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)	
Map Zone:	New Mexico East 3001	

El Presidente State X				
Site Position:		Northing:	451,093.58 usft	Latitude: 32.2400542
From:	Map	Easting:	553,637.59 usft	Longitude: -104.1598525
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.09 °

No. 4H				
Well Position	+N-S	0.00 usft	Northing:	451,093.58 usft
	+E-W	0.00 usft	Easting:	553,637.59 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,140.00 usft

OH				
HDGM				
6/15/2017				
7.40				
60.05				
48,090.70				

MWD 60' - 13926' PTB 13475'				
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
0.00 0.00 0.00 1.21				

60.00	510.00 Survey #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
540.00	13,970.00 Survey #2 (OH)	MWD+IFR1	OWSG MWD + IFR1

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	0.70	119.96	60.00	-0.18	0.32	-0.18	1.17	1.17	0.00
90.00	0.78	131.77	90.00	-0.41	0.63	-0.40	0.57	0.27	39.37
120.00	0.87	136.91	119.99	-0.71	0.94	-0.69	0.39	0.30	17.13
150.00	0.89	140.32	149.99	-1.06	1.24	-1.03	0.19	0.07	11.37
180.00	0.93	141.40	179.99	-1.43	1.54	-1.40	0.15	0.13	3.60
210.00	1.07	141.93	209.98	-1.84	1.87	-1.80	0.47	0.47	1.77
240.00	1.19	144.13	239.98	-2.31	2.22	-2.26	0.43	0.40	7.33

Marathon Oil
Eddy County, NM

El Presidente State X

No. 4H
OH
MWD 60' - 13926' PTB 13475'

Well No. 4H
Well @ 3165.00usft (GL: 3140' + KB: 25'
(H&P480))
Well @ 3165.00usft (GL: 3140' + KB: 25'
(H&P480))
Grid
Minimum Curvature
WellPlanner1

270.00	1.41	138.59	269.97	-2.84	2.65	-2.78	0.84	0.73	-18.47
300.00	1.57	129.76	299.96	-3.38	3.21	-3.31	0.93	0.53	-29.43
330.00	1.68	123.08	329.95	-3.88	3.89	-3.80	0.73	0.37	-22.27
360.00	1.74	118.34	359.93	-4.34	4.66	-4.24	0.51	0.20	-15.80
390.00	1.83	110.67	389.92	-4.73	5.51	-4.61	0.85	0.30	-25.57
420.00	2.00	104.88	419.90	-5.03	6.47	-4.89	0.86	0.57	-19.30
450.00	2.11	102.97	449.88	-5.29	7.51	-5.13	0.43	0.37	-6.37
480.00	2.05	103.91	479.86	-5.54	8.57	-5.36	0.23	-0.20	3.13
510.00	2.11	103.91	509.84	-5.80	9.63	-5.60	0.20	0.20	0.00
540.00	2.30	101.20	539.82	-6.05	10.75	-5.82	0.72	0.63	-9.03
601.00	2.00	103.80	600.78	-6.54	12.99	-6.27	0.52	-0.49	4.26
694.00	0.80	114.40	693.75	-7.20	15.15	-6.88	1.31	-1.29	11.40
786.00	0.50	126.20	785.74	-7.70	16.06	-7.36	0.36	-0.33	12.83
880.00	0.60	120.30	879.74	-8.19	16.82	-7.83	0.12	0.11	-6.28
975.00	0.70	125.50	974.73	-8.78	17.72	-8.40	0.12	0.11	5.47
1,069.00	0.70	123.90	1,068.72	-9.43	18.66	-9.04	0.02	0.00	-1.70
1,164.00	0.50	131.00	1,163.72	-10.03	19.46	-9.62	0.22	-0.21	7.47
1,258.00	0.50	132.10	1,257.72	-10.57	20.07	-10.15	0.01	0.00	1.17
1,353.00	0.60	129.50	1,352.71	-11.17	20.76	-10.73	0.11	0.11	-2.74
1,447.00	0.80	135.60	1,446.70	-11.95	21.60	-11.49	0.23	0.21	6.49
1,541.00	1.20	121.60	1,540.69	-12.93	22.90	-12.45	0.50	0.43	-14.89
1,636.00	2.00	110.10	1,635.65	-14.02	25.30	-13.49	0.90	0.84	-12.11
1,730.00	2.40	119.70	1,729.58	-15.56	28.55	-14.96	0.58	0.43	10.21
1,825.00	2.00	113.30	1,824.51	-17.20	31.80	-16.53	0.49	-0.42	-6.74
1,919.00	3.10	108.60	1,918.42	-18.66	35.72	-17.91	1.19	1.17	-5.00
2,014.00	3.70	100.30	2,013.25	-20.03	41.17	-19.16	0.82	0.63	-8.74
2,108.00	3.70	93.40	2,107.06	-20.75	47.18	-19.75	0.47	0.00	-7.34
2,203.00	1.10	96.40	2,201.96	-21.04	51.15	-19.95	2.74	-2.74	3.16
2,249.00	0.50	101.00	2,247.96	-21.12	51.79	-20.03	1.31	-1.30	10.00
2,392.00	0.50	88.70	2,390.95	-21.23	53.02	-20.11	0.07	0.00	-8.60
2,487.00	0.50	88.50	2,485.95	-21.21	53.85	-20.07	0.00	0.00	-0.21
2,581.00	0.70	214.90	2,579.95	-21.67	53.93	-20.53	1.14	0.21	134.47
2,675.00	2.20	208.80	2,673.92	-23.72	52.73	-22.60	1.60	1.60	-6.49
2,770.00	2.30	207.00	2,768.84	-27.02	50.99	-25.94	0.13	0.11	-1.89
2,864.00	2.30	204.30	2,862.77	-30.42	49.36	-29.37	0.12	0.00	-2.87
2,958.00	3.00	203.50	2,956.67	-34.39	47.60	-33.38	0.75	0.74	-0.85
3,053.00	3.90	203.40	3,051.49	-39.64	45.33	-38.67	0.95	0.95	-0.11
3,147.00	3.90	207.30	3,145.27	-45.41	42.59	-44.50	0.28	0.00	4.15
3,242.00	4.30	211.40	3,240.03	-51.32	39.25	-50.48	0.52	0.42	4.32
3,337.00	4.30	207.80	3,334.76	-57.51	35.74	-56.75	0.28	0.00	-3.79
3,431.00	4.60	190.60	3,428.48	-64.34	33.40	-63.62	1.45	0.32	-18.30
3,526.00	4.20	177.20	3,523.21	-71.56	32.87	-70.85	1.16	-0.42	-14.11

Marathon Oil	Well No. 4H
Eddy County, NM	Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))
El Presidente State X	Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))
No. 4H	Grid
OH	Minimum Curvature
MWD 60' - 13926' PTB 13475'	WellPlanner1

Station	Angle	Distance	True North	True East	True North	True East	True North	True East	True North
3,620.00	4.10	174.80	3,616.96	-78.34	33.34	-77.62	0.21	-0.11	-2.55
3,715.00	3.90	176.60	3,711.73	-84.95	33.84	-84.21	0.25	-0.21	1.89
3,809.00	4.40	183.70	3,805.48	-91.74	33.80	-91.00	0.76	0.53	7.55
3,904.00	4.40	185.40	3,900.20	-99.00	33.22	-98.28	0.14	0.00	1.79
3,998.00	4.50	185.90	3,993.92	-106.26	32.50	-105.55	0.11	0.11	0.53
4,093.00	4.40	186.20	4,088.63	-113.59	31.72	-112.89	0.11	-0.11	0.32
4,187.00	4.30	187.60	4,182.36	-120.67	30.87	-119.99	0.16	-0.11	1.49
4,282.00	4.10	184.90	4,277.11	-127.58	30.11	-126.92	0.30	-0.21	-2.84
4,376.00	3.90	189.50	4,370.88	-134.08	29.29	-133.43	0.40	-0.21	4.89
4,471.00	3.40	191.20	4,465.69	-140.03	28.21	-139.40	0.54	-0.53	1.79
4,565.00	4.00	189.80	4,559.49	-146.00	27.11	-145.39	0.65	0.64	-1.49
4,660.00	3.90	189.70	4,654.26	-152.45	26.00	-151.86	0.11	-0.11	-0.11
4,755.00	4.10	190.80	4,749.03	-158.97	24.82	-158.41	0.23	0.21	1.16
4,849.00	3.90	192.90	4,842.80	-165.38	23.48	-164.85	0.26	-0.21	2.23
4,944.00	3.70	192.60	4,937.59	-171.52	22.09	-171.02	0.21	-0.21	-0.32
5,038.00	3.70	206.10	5,031.40	-177.21	20.09	-176.74	0.92	0.00	14.36
5,133.00	4.10	189.80	5,126.18	-183.31	18.17	-182.88	1.24	0.42	-17.16
5,228.00	4.90	180.80	5,220.89	-190.71	17.53	-190.30	1.12	0.84	-9.47
5,322.00	4.50	182.90	5,314.57	-198.41	17.29	-198.00	0.46	-0.43	2.23
5,417.00	3.60	185.30	5,409.34	-205.10	16.83	-204.70	0.96	-0.95	2.53
5,511.00	4.20	179.80	5,503.12	-211.48	16.57	-211.08	0.75	0.64	-5.85
5,606.00	5.10	172.30	5,597.81	-219.14	17.14	-218.73	1.14	0.95	-7.89
5,701.00	5.50	162.70	5,692.40	-227.68	19.06	-227.22	1.02	0.42	-10.11
5,795.00	5.20	168.20	5,785.99	-236.15	21.27	-235.64	0.63	-0.32	5.85
5,890.00	4.20	170.10	5,880.67	-243.79	22.75	-243.25	1.07	-1.05	2.00
5,985.00	3.70	173.90	5,975.45	-250.26	23.68	-249.71	0.59	-0.53	4.00
6,079.00	3.10	176.10	6,069.28	-255.81	24.17	-255.25	0.65	-0.64	2.34
6,174.00	2.40	180.30	6,164.17	-260.37	24.34	-259.79	0.77	-0.74	4.42
6,268.00	1.60	190.40	6,258.11	-263.63	24.09	-263.06	0.93	-0.85	10.74
6,363.00	0.40	187.70	6,353.10	-265.26	23.81	-264.70	1.26	-1.26	-2.84
6,458.00	0.40	289.90	6,448.09	-265.47	23.45	-264.92	0.66	0.00	107.58
6,552.00	0.40	273.00	6,542.09	-265.35	22.81	-264.80	0.13	0.00	-17.98
6,647.00	0.30	194.70	6,637.09	-265.57	22.42	-265.04	0.47	-0.11	-82.42
6,742.00	0.50	232.80	6,732.09	-266.06	22.03	-265.54	0.34	0.21	40.11
6,836.00	0.20	343.80	6,826.09	-266.15	21.65	-265.63	0.64	-0.32	118.09
6,931.00	0.60	310.80	6,921.09	-265.67	21.23	-265.16	0.47	0.42	-34.74
7,025.00	0.70	286.50	7,015.08	-265.18	20.31	-264.69	0.31	0.11	-25.85
7,120.00	0.80	302.30	7,110.07	-264.66	19.19	-264.20	0.24	0.11	16.63
7,214.00	0.50	340.10	7,204.07	-263.93	18.50	-263.48	0.54	-0.32	40.21
7,309.00	1.10	245.80	7,299.06	-263.91	17.52	-263.48	1.31	0.63	-99.26
7,403.00	1.10	222.50	7,393.04	-264.94	16.09	-264.55	0.47	0.00	-24.79
7,498.00	1.00	173.00	7,488.03	-266.44	15.58	-266.05	0.93	-0.11	-52.11

Marathon Oil	Well No. 4H
Eddy County, NM	Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))
El Presidente State X	Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))
No. 4H	Grid
OH	Minimum Curvature
MWD 60' - 13926' PTB 13475'	WellPlanner1

Station	Depth	True	Mag	Dec	Lat	Long	Alt	Grav	Temp
7,592.00	1.70	143.50	7,582.00	-268.38	16.50	-267.97	1.03	0.74	-31.38
7,687.00	1.60	159.20	7,676.96	-270.75	17.81	-270.31	0.49	-0.11	16.53
7,781.00	1.70	172.00	7,770.92	-273.36	18.47	-272.90	0.41	0.11	13.62
7,875.00	1.50	139.90	7,864.89	-275.68	19.46	-275.20	0.96	-0.21	-34.15
7,970.00	2.30	176.80	7,959.84	-278.53	20.37	-278.04	1.50	0.84	38.84
8,064.00	3.10	184.60	8,053.74	-282.95	20.27	-282.46	0.93	0.85	8.30
8,159.00	0.90	133.40	8,148.68	-286.02	20.61	-285.52	2.77	-2.32	-53.89
8,253.00	0.90	162.40	8,242.67	-287.23	21.36	-286.72	0.48	0.00	30.85
8,347.00	1.00	191.60	8,336.65	-288.74	21.42	-288.22	0.52	0.11	31.06
8,441.00	1.30	224.80	8,430.64	-290.30	20.51	-289.80	0.76	0.32	35.32
8,536.00	1.30	227.40	8,525.61	-291.79	18.95	-291.33	0.06	0.00	2.74
8,599.00	1.40	100.50	8,588.60	-292.42	19.19	-291.95	3.83	0.16	-201.43
8,630.00	2.30	39.70	8,619.59	-292.01	19.95	-291.52	6.54	2.90	-196.13
8,662.00	7.00	47.80	8,651.47	-290.20	21.81	-289.68	14.79	14.69	25.31
8,693.00	8.80	32.60	8,682.18	-286.94	24.49	-286.36	8.85	5.81	-49.03
8,725.00	11.20	20.60	8,713.70	-281.96	26.90	-281.33	9.89	7.50	-37.50
8,756.00	15.80	20.70	8,743.83	-275.19	29.45	-274.51	14.84	14.84	0.32
8,788.00	19.50	17.00	8,774.32	-266.01	32.56	-265.26	12.08	11.56	-11.56
8,819.00	22.80	20.50	8,803.23	-255.43	36.17	-254.61	11.39	10.65	11.29
8,851.00	27.60	21.60	8,832.18	-242.72	41.08	-241.80	15.07	15.00	3.44
8,882.00	31.10	21.60	8,859.19	-228.60	46.67	-227.56	11.29	11.29	0.00
8,914.00	32.40	15.60	8,886.41	-212.65	52.02	-211.51	10.67	4.06	-18.75
8,945.00	34.60	7.20	8,912.27	-195.91	55.36	-194.70	16.54	7.10	-27.10
8,976.00	36.50	359.90	8,937.51	-177.95	56.44	-176.72	14.99	6.13	-23.55
9,008.00	39.70	357.20	8,962.69	-158.22	55.93	-157.00	11.27	10.00	-8.44
9,039.00	45.00	354.60	8,985.59	-137.40	54.41	-136.22	18.00	17.10	-8.39
9,071.00	49.70	353.00	9,007.27	-114.01	51.86	-112.89	15.14	14.69	-5.00
9,102.00	53.00	353.30	9,026.63	-89.98	48.97	-88.92	10.67	10.65	0.97
9,149.00	56.30	353.00	9,053.81	-51.92	44.40	-50.97	7.04	7.02	-0.64
9,197.00	57.80	355.20	9,079.92	-11.86	40.27	-11.01	4.96	3.13	4.58
9,270.00	61.90	353.60	9,116.58	50.95	34.09	51.65	5.93	5.62	-2.19
9,320.00	63.20	356.90	9,139.64	95.15	30.42	95.78	6.41	2.60	6.60
9,352.00	63.70	357.00	9,153.94	123.74	28.90	124.32	1.59	1.56	0.31
9,383.00	68.30	358.90	9,166.55	152.03	27.90	152.59	15.86	14.84	6.13
9,415.00	74.20	359.60	9,176.83	182.32	27.50	182.86	18.55	18.44	2.19
9,446.00	79.20	1.30	9,183.96	212.47	27.74	213.01	16.99	16.13	5.48
9,478.00	79.90	3.40	9,189.76	243.92	29.04	244.47	6.81	2.19	6.56
9,509.00	82.00	3.60	9,194.64	274.47	30.90	275.06	6.80	6.77	0.65
9,542.00	83.10	1.20	9,198.92	307.16	32.27	307.77	7.94	3.33	-7.27
9,573.00	82.30	0.00	9,202.86	337.91	32.60	338.52	4.63	-2.58	-3.87
9,678.00	85.30	359.10	9,214.20	442.28	31.77	442.85	2.98	2.86	-0.86
9,785.00	92.90	0.40	9,215.87	549.18	31.31	549.72	7.21	7.10	1.21

Client:	Marathon Oil	Well No. 4H
Location:	Eddy County, NM	Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))
Operator:	El Presidente State X	Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))
Well:	No. 4H	Grid
OH:	OH	Minimum Curvature
MWD 60' - 13926' PTB 13475'		WellPlanner1

Station	Depth (ft)	Angle (deg)	True Azimuth (deg)	True Azimuth (deg)	True Azimuth (deg)	True Azimuth (deg)	True Azimuth (deg)	True Azimuth (deg)	True Azimuth (deg)
9,880.00	93.30	359.60	9,210.74	644.04	31.31	644.56	0.94	0.42	-0.84
9,975.00	88.90	1.30	9,208.91	738.99	32.06	739.51	4.96	-4.63	1.79
10,069.00	89.10	3.60	9,210.55	832.89	36.07	833.46	2.46	0.21	2.45
10,164.00	90.90	5.10	9,210.55	927.61	43.28	928.31	2.47	1.89	1.58
10,259.00	89.60	4.30	9,210.14	1,022.28	51.06	1,023.13	1.61	-1.37	-0.84
10,354.00	91.10	6.30	9,209.56	1,116.87	59.84	1,117.88	2.63	1.58	2.11
10,448.00	92.40	2.70	9,206.69	1,210.52	67.21	1,211.67	4.07	1.38	-3.83
10,543.00	89.40	359.50	9,205.20	1,305.47	69.03	1,306.63	4.62	-3.16	-3.37
10,637.00	90.90	358.00	9,204.95	1,399.44	66.98	1,400.54	2.26	1.60	-1.60
10,732.00	90.20	358.10	9,204.04	1,494.38	63.75	1,495.39	0.74	-0.74	0.11
10,826.00	91.90	359.60	9,202.31	1,588.34	61.86	1,589.29	2.41	1.81	1.60
10,921.00	92.20	358.30	9,198.92	1,683.26	60.12	1,684.15	1.40	0.32	-1.37
11,015.00	91.30	358.50	9,196.05	1,777.18	57.50	1,777.99	0.98	-0.96	0.21
11,110.00	92.80	3.40	9,192.65	1,872.07	59.07	1,872.90	5.39	1.58	5.16
11,204.00	92.10	2.70	9,188.63	1,965.85	64.07	1,966.76	1.05	-0.74	-0.74
11,299.00	91.30	0.90	9,185.81	2,060.76	67.05	2,061.71	2.07	-0.84	-1.89
11,393.00	90.70	1.10	9,184.17	2,154.73	68.69	2,155.70	0.67	-0.64	0.21
11,488.00	92.30	3.20	9,181.68	2,249.62	72.25	2,250.64	2.78	1.68	2.21
11,582.00	89.40	359.10	9,180.29	2,343.56	74.14	2,344.60	5.34	-3.09	-4.36
11,677.00	93.10	3.30	9,178.21	2,438.48	76.12	2,439.54	5.89	3.89	4.42
11,771.00	93.60	3.50	9,172.72	2,532.15	81.69	2,533.31	0.57	0.53	0.21
11,866.00	94.20	4.10	9,166.26	2,626.72	87.97	2,628.00	0.89	0.63	0.63
11,898.00	92.30	3.40	9,164.44	2,658.60	90.06	2,659.91	6.33	-5.94	-2.19
11,961.00	92.60	4.10	9,161.75	2,721.41	94.17	2,722.79	1.21	0.48	1.11
12,055.00	88.60	3.90	9,160.77	2,815.16	100.73	2,816.66	4.26	-4.26	-0.21
12,150.00	91.40	10.10	9,160.77	2,909.39	112.30	2,911.12	7.16	2.95	6.53
12,244.00	84.00	6.30	9,164.54	3,002.27	125.69	3,004.26	8.85	-7.87	-4.04
12,339.00	86.80	2.50	9,172.16	3,096.66	132.95	3,098.78	4.96	2.95	-4.00
12,433.00	88.90	1.90	9,175.69	3,190.52	136.55	3,192.69	2.32	2.23	-0.64
12,528.00	88.70	0.40	9,177.68	3,285.48	138.46	3,287.67	1.59	-0.21	-1.58
12,622.00	89.50	0.60	9,179.15	3,379.46	139.28	3,381.65	0.88	0.85	0.21
12,717.00	92.40	2.80	9,177.58	3,474.39	142.10	3,476.62	3.83	3.05	2.32
12,812.00	90.70	0.80	9,175.01	3,569.30	145.08	3,571.57	2.76	-1.79	-2.11
12,906.00	88.80	359.80	9,175.42	3,663.29	145.57	3,665.55	2.28	-2.02	-1.06
13,001.00	89.90	0.40	9,176.50	3,758.29	145.74	3,760.53	1.32	1.16	0.63
13,096.00	89.10	0.70	9,177.32	3,853.28	146.65	3,855.52	0.90	-0.84	0.32
13,190.00	87.80	359.80	9,179.87	3,947.24	147.06	3,949.46	1.68	-1.38	-0.96
13,285.00	87.10	359.40	9,184.09	4,042.14	146.40	4,044.33	0.85	-0.74	-0.42
13,380.00	87.70	359.80	9,188.40	4,137.04	145.73	4,139.20	0.76	0.63	0.42
13,475.00	88.30	0.00	9,191.72	4,231.98	145.57	4,234.11	0.67	0.63	0.21
13,569.00	87.00	0.00	9,195.57	4,325.90	145.57	4,328.01	1.38	-1.38	0.00
13,664.00	89.20	359.20	9,198.72	4,420.84	144.91	4,422.92	2.46	2.32	-0.84

Marathon Oil Eddy County, NM El Presidente State X No. 4H OH MWD 60' - 13926' PTB 13475'	Well No. 4H Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480)) Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480)) Grid Minimum Curvature WellPlanner1
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13,759.00	89.60	359.40	9,199.72	4,515.83	143.74	4,517.86	0.47	0.42	0.21
13,853.00	89.70	358.90	9,200.29	4,609.82	142.35	4,611.79	0.54	0.11	-0.53
13,926.00	90.40	359.80	9,200.23	4,682.81	141.52	4,684.75	1.56	0.96	1.23
Last Survey: 13926' MD, 9200.23' TVD									
13,970.00	90.40	359.80	9,199.92	4,726.81	141.37	4,728.74	0.00	0.00	0.00
PTB: 13970' MD, 9199.92' TVD									

13,926.00	9,200.23	4,682.81	141.52	Last Survey: 13926' MD, 9200.23' TVD					
13,970.00	9,199.92	4,726.81	141.37	PTB: 13970' MD, 9199.92' TVD					



Marathon Oil
Eddy County, NM
El Presidente State X
No. 4H
Plan #7 - FINAL PVA
GL: 3140' + KB: 25' (H&P480)

US State Plane 1927 (Exact solution)
NAD 1983 (NAD 83) CONUS
Datum: 1983
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 3165.00usft (GL: 3140' + KB: 25' (H&P480))

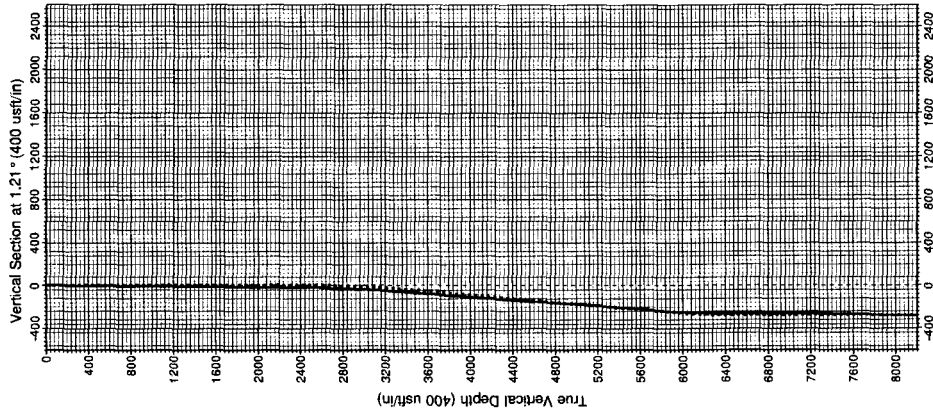
	+N-S	+E-W	North	East	Latitude	Longitude	Spot
	0.00	0.00	451093.98	553637.59	32.2400542	-104.1598525	

SECTION DETAILS

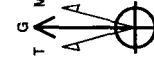
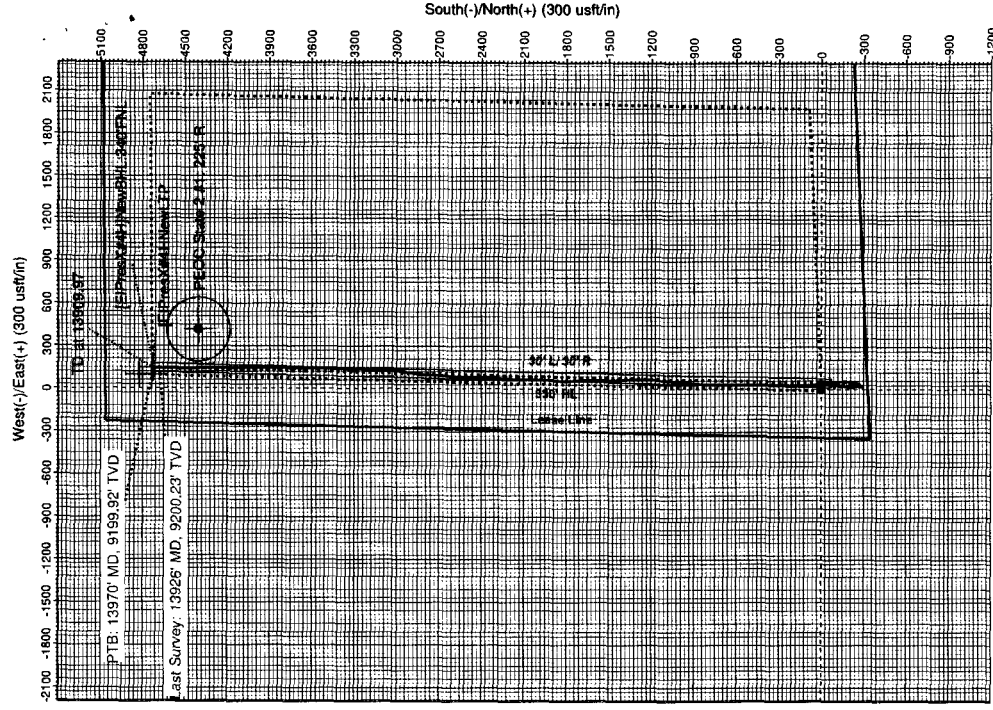
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	VSeet
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00
3	2500.00	0.00	171.37	3498.73	-43.17	8.17	0.50	-43.03
4	2500.00	0.00	171.37	3498.73	-43.17	8.17	0.50	-43.03
5	6484.78	0.00	0.00	6484.78	-280.00	40.00	1.00	-279.09
6	8574.40	0.00	0.00	8563.00	-280.00	40.00	0.00	-279.09
7	9466.39	89.20	1.21	9135.90	284.82	51.93	10.00	285.85
8	13509.97	89.20	1.21	9198.03	4726.98	145.76	0.00	4729.00

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	North	East
[EIPresX44]PlasBHL	0.00	4826.45	97.85	455820.03	553735.44
[EIPresX44]PlasLTP	0.00	4736.43	96.03	455830.01	553735.62
[EIPresX44]NewLTP	0.00	4736.60	146.37	455830.18	553783.96
PEOC State 2 #1: 225 R	0.00	4407.34	415.68	455500.92	554053.27
[EIPresX44]NewBHL340FNL	9198.03	4726.98	145.76	455820.56	553783.35



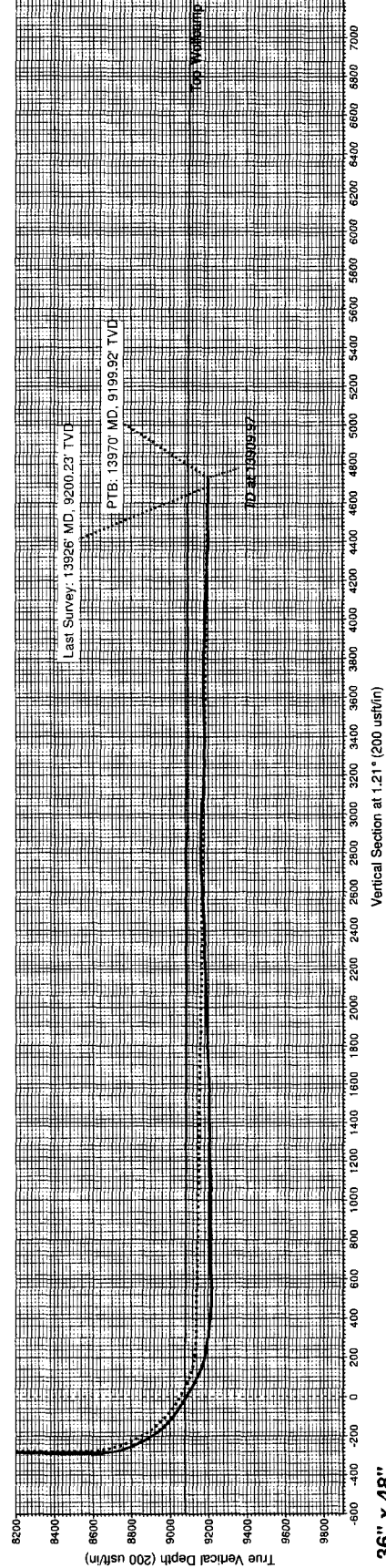
Target Line: 9132' TVD @ 0' VS, 89.2° INC



Airphoto to Grid North
True North to Grid North
Magnetic North: 7.31°
Magnetic Field
Shape: Ellipse
Dip Angle: 60.06°
Date: 8/15/2017
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 7.31°
Declination (M to T): 7.40° East



36" x 48"