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Directional Survey**

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DISTRICT II-ARTESIA O.C.D.

Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Fiddle Fee 24-28-23

TB #2H

30.015-44540

OH

Survey: SDI Survey #1

Standard Survey Report

07 March, 2018



www.scientificdrilling.com

Survey Report

Company:	Marathon Oil Permian, LLC	Local Co-ordinate Reference:	Well TB #2H
Project:	Eddy County, NM (NAD27)	TVD Reference:	KB = 26.5' @ 3023.50usft (H&P 498)
Site:	Fiddle Fee 24-28-23	MD Reference:	KB = 26.5' @ 3023.50usft (H&P 498)
Well:	TB #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy County, NM (NAD27)		
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		Using geodetic scale factor

Site	Fiddle Fee 24-28-23				
Site Position:		Northing:	439,935.99 usft	Latitude:	32° 12' 33.182 N
From:	Map	Easting:	582,860.46 usft	Longitude:	104° 3' 55.538 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well	TB #2H					
Well Position	+N/-S	0.00 usft	Northing:	439,985.99 usft	Latitude:	32° 12' 33.677 N
	+E/-W	0.00 usft	Easting:	582,860.46 usft	Longitude:	104° 3' 55.537 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,997.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/13/2017	7.23	60.00	48,049

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	90.79	

Survey Program	Date	3/7/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
126.50	520.50	Gyro Survey (OH)	Keeper	Keeper Standard Rate Gyro
612.00	14,286.00	SDI Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
520.50	0.54	217.55	520.49	-1.62	-0.83	-0.81	0.00	0.00	0.00
612.00	1.19	236.06	611.98	-2.49	-1.88	-1.84	0.76	0.71	20.23
704.00	1.45	232.54	703.96	-3.73	-3.60	-3.54	0.30	0.28	-3.83
796.00	2.04	237.73	795.92	-5.31	-5.90	-5.83	0.66	0.64	5.64
888.00	2.25	226.61	887.85	-7.43	-8.60	-8.50	0.51	0.23	-12.09
980.00	0.86	183.09	979.82	-9.36	-9.95	-9.82	1.88	-1.51	-47.30
1,071.00	0.90	156.71	1,070.81	-10.70	-9.71	-9.56	0.44	0.04	-28.99
1,166.00	1.14	184.54	1,165.79	-12.32	-9.49	-9.31	0.57	0.25	29.29
1,260.00	1.27	177.81	1,259.77	-14.30	-9.52	-9.32	0.20	0.14	-7.16
1,355.00	1.36	92.28	1,354.76	-15.40	-8.35	-8.14	1.88	0.09	-90.03

Survey Report

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Site:	Fiddle Fee 24-28-23	MD Reference:	KB = 26.5' @ 3023.50usft (H&P 498)
Well:	TB #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,450.00	1.41	84.97	1,449.73	-15.34	-6.06	-5.85	0.19	0.05	-7.69
1,544.00	1.20	75.59	1,543.70	-14.99	-3.96	-3.75	0.32	-0.22	-9.98
1,638.00	0.95	83.24	1,637.69	-14.65	-2.23	-2.03	0.31	-0.27	8.14
1,733.00	1.02	88.53	1,732.67	-14.54	-0.60	-0.40	0.12	0.07	5.57
1,828.00	1.69	82.02	1,827.65	-14.32	1.63	1.83	0.72	0.71	-6.85
1,922.00	2.36	83.30	1,921.59	-13.91	4.93	5.12	0.71	0.71	1.36
2,017.00	2.86	89.86	2,016.49	-13.67	9.24	9.43	0.61	0.53	6.91
2,112.00	2.69	55.35	2,111.38	-12.40	13.44	13.61	1.74	-0.18	-36.33
2,207.00	3.01	61.19	2,206.27	-9.93	17.46	17.60	0.45	0.34	6.15
2,301.00	1.58	124.11	2,300.20	-9.47	20.70	20.83	2.86	-1.52	66.94
2,396.00	2.58	114.09	2,395.14	-11.07	23.73	23.88	1.12	1.05	-10.55
2,501.00	1.40	89.22	2,500.07	-12.02	27.17	27.34	1.37	-1.12	-23.69
2,675.00	0.95	18.93	2,674.04	-10.63	29.77	29.91	0.81	-0.26	-40.40
2,738.00	1.07	29.14	2,737.03	-9.62	30.22	30.35	0.34	0.19	16.21
2,864.00	0.72	13.71	2,863.02	-7.82	30.98	31.09	0.33	-0.28	-12.25
2,959.00	1.07	11.75	2,958.01	-6.37	31.31	31.39	0.37	0.37	-2.06
3,054.00	1.04	13.25	3,052.99	-4.67	31.68	31.75	0.04	-0.03	1.58
3,148.00	0.98	38.92	3,146.98	-3.21	32.39	32.43	0.48	-0.06	27.31
3,243.00	1.03	39.84	3,241.96	-1.92	33.44	33.47	0.06	0.05	0.97
3,338.00	1.05	38.60	3,336.95	-0.59	34.53	34.54	0.03	0.02	-1.31
3,433.00	1.25	24.95	3,431.93	1.03	35.51	35.50	0.36	0.21	-14.37
3,527.00	0.87	31.25	3,525.91	2.57	36.32	36.28	0.42	-0.40	6.70
3,622.00	1.17	17.41	3,620.90	4.11	36.98	36.92	0.41	0.32	-14.57
3,717.00	1.10	26.10	3,715.88	5.86	37.67	37.59	0.20	-0.07	9.15
3,811.00	1.21	24.19	3,809.86	7.57	38.48	38.37	0.12	0.12	-2.03
3,906.00	0.93	30.63	3,904.84	9.15	39.28	39.15	0.32	-0.29	6.78
4,001.00	0.43	275.73	3,999.84	9.85	39.32	39.18	1.24	-0.53	-120.95
4,095.00	1.16	247.38	4,093.83	9.52	38.09	37.95	0.86	0.78	-30.16
4,190.00	0.93	241.74	4,188.81	8.79	36.52	36.40	0.26	-0.24	-5.94
4,284.00	1.24	231.81	4,282.80	7.80	35.05	34.94	0.38	0.33	-10.56
4,379.00	1.10	246.96	4,377.78	6.80	33.40	33.31	0.36	-0.15	15.95
4,474.00	1.24	235.25	4,472.76	5.86	31.72	31.64	0.29	0.15	-12.33
4,568.00	1.16	245.13	4,566.74	4.88	30.02	29.95	0.24	-0.09	10.51
4,663.00	1.41	252.08	4,661.71	4.12	28.04	27.98	0.31	0.26	7.32
4,757.00	1.40	243.95	4,755.68	3.26	25.90	25.86	0.21	-0.01	-8.65
4,852.00	1.79	239.52	4,850.65	1.99	23.58	23.55	0.43	0.41	-4.66
4,946.00	1.38	247.72	4,944.61	0.82	21.27	21.26	0.50	-0.44	8.72
5,041.00	1.48	241.11	5,039.58	-0.21	19.14	19.14	0.20	0.11	-6.96
5,135.00	1.77	252.74	5,133.54	-1.22	16.69	16.70	0.47	0.31	12.37
5,230.00	3.12	300.65	5,228.46	-0.34	13.06	13.07	2.46	1.42	50.43
5,324.00	3.44	295.82	5,322.31	2.19	8.32	8.29	0.45	0.34	-5.14
5,419.00	5.19	291.61	5,417.04	5.02	1.76	1.69	1.87	1.84	-4.43
5,513.00	4.96	287.29	5,510.67	7.79	-6.07	-6.18	0.47	-0.24	-4.60

Survey Report

Company: Marathon Oil Permian, LLC
 Project: Eddy County, NM (NAD27)
 Site: Fiddle Fee 24-28-23
 Well: TB #2H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well TB #2H
 TVD Reference: KB = 26.5' @ 3023.50usft (H&P 498)
 MD Reference: KB = 26.5' @ 3023.50usft (H&P 498)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,608.00	5.89	288.82	5,605.24	10.58	-14.61	-14.75	0.99	0.98	1.61
5,702.00	6.12	288.87	5,698.73	13.76	-23.91	-24.10	0.24	0.24	0.05
5,797.00	5.82	289.30	5,793.21	16.99	-33.25	-33.48	0.32	-0.32	0.45
5,892.00	5.86	286.52	5,887.72	19.96	-42.45	-42.72	0.30	0.04	-2.93
5,986.00	5.48	285.36	5,981.26	22.51	-51.38	-51.68	0.42	-0.40	-1.23
6,081.00	5.43	283.47	6,075.83	24.76	-60.12	-60.46	0.20	-0.05	-1.99
6,175.00	5.13	279.96	6,169.43	26.52	-68.59	-68.94	0.47	-0.32	-3.73
6,269.00	5.88	299.93	6,263.00	29.65	-76.90	-77.30	2.17	0.80	21.24
6,364.00	5.77	299.68	6,357.51	34.45	-85.26	-85.73	0.12	-0.12	-0.26
6,459.00	5.54	298.56	6,452.05	39.00	-93.44	-93.97	0.27	-0.24	-1.18
6,553.00	5.89	303.04	6,545.58	43.80	-101.47	-102.06	0.60	0.37	4.77
6,648.00	5.82	300.27	6,640.09	48.89	-109.72	-110.38	0.31	-0.07	-2.92
6,742.00	5.50	291.75	6,733.63	52.96	-118.02	-118.73	0.96	-0.34	-9.06
6,837.00	5.09	296.97	6,828.23	56.56	-126.00	-126.77	0.67	-0.43	5.49
6,931.00	4.40	293.15	6,921.90	59.87	-133.03	-133.85	0.81	-0.73	-4.06
7,026.00	4.62	300.13	7,016.61	63.22	-139.69	-140.55	0.62	0.23	7.35
7,120.00	3.97	299.49	7,110.35	66.72	-145.80	-146.70	0.69	-0.69	-0.68
7,215.00	3.61	289.03	7,205.14	69.32	-151.49	-152.43	0.82	-0.38	-11.01
7,309.00	4.30	308.50	7,298.92	72.48	-157.04	-158.03	1.60	0.73	20.71
7,404.00	3.30	302.78	7,393.71	76.17	-162.13	-163.17	1.12	-1.05	-6.02
7,498.00	2.35	268.51	7,487.60	77.59	-166.33	-167.39	2.02	-1.01	-36.46
7,592.00	3.55	286.78	7,581.48	78.38	-171.05	-172.11	1.61	1.28	19.44
7,687.00	5.92	302.93	7,676.15	81.89	-177.97	-179.09	2.84	2.49	17.00
7,781.00	6.30	296.97	7,769.62	86.87	-186.64	-187.82	0.79	0.40	-6.34
7,876.00	6.05	284.55	7,864.07	90.49	-196.13	-197.36	1.43	-0.26	-13.07
7,971.00	5.66	286.77	7,958.57	93.10	-205.46	-206.73	0.47	-0.41	2.34
8,065.00	6.37	279.16	8,052.06	95.26	-215.05	-216.34	1.13	0.76	-8.10
8,160.00	5.57	275.26	8,146.54	96.53	-224.84	-226.15	0.94	-0.84	-4.11
8,255.00	5.10	288.12	8,241.13	98.26	-233.45	-234.78	1.35	-0.49	13.54
8,349.00	3.73	314.65	8,334.86	101.71	-239.60	-240.97	2.58	-1.46	28.22
8,444.00	2.82	322.70	8,429.71	105.74	-243.21	-244.64	1.07	-0.96	8.47
8,538.00	1.91	321.15	8,523.62	108.80	-245.59	-247.07	0.97	-0.97	-1.65
8,633.00	1.20	320.59	8,618.59	110.80	-247.22	-248.72	0.75	-0.75	-0.59
8,714.00	0.47	180.11	8,699.58	111.13	-247.76	-249.27	1.96	-0.90	-173.43
8,816.00	0.54	176.75	8,801.58	110.23	-247.73	-249.23	0.07	0.07	-3.29
8,910.00	7.46	69.79	8,895.32	111.90	-241.97	-243.49	8.12	7.36	-113.79
9,005.00	19.29	72.15	8,987.58	118.86	-221.17	-222.79	12.46	12.45	2.48
9,100.00	27.72	87.43	9,074.70	124.68	-184.06	-185.77	10.88	8.87	16.08
9,194.00	44.53	88.79	9,150.35	126.37	-128.87	-130.60	17.90	17.88	1.45
9,289.00	53.11	94.38	9,212.87	124.16	-57.53	-59.23	10.05	9.03	5.88
9,384.00	54.40	94.00	9,269.04	118.57	18.88	17.25	1.40	1.36	-0.40
9,424.93	54.39	93.81	9,292.87	116.30	52.09	50.48	0.38	-0.02	-0.47

FTP[FF#2H]

Survey Report

Company:	Marathon Oil Permian, LLC	Local Co-ordinate Reference:	Well TB #2H
Project:	Eddy County, NM (NAD27)	TVD Reference:	KB = 26.5' @ 3023.50usft (H&P 498)
Site:	Fiddle Fee 24-28-23	MD Reference:	KB = 26.5' @ 3023.50usft (H&P 498)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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9,478.00	54.38	93.56	9,323.77	113.53	95.14	93.57	0.38	-0.02	-0.47
9,573.00	58.93	87.82	9,376.01	112.68	174.42	172.85	6.96	4.79	-6.04
9,667.00	66.58	88.58	9,419.01	115.28	257.89	256.28	8.17	8.14	0.81
9,762.00	77.99	86.30	9,447.87	119.37	348.14	346.46	12.23	12.01	-2.40
9,856.00	90.44	85.78	9,457.33	125.82	441.25	439.47	13.26	13.24	-0.55
9,951.00	95.69	93.29	9,452.24	126.61	536.01	534.21	9.63	5.53	7.91
10,070.00	94.30	91.41	9,441.88	121.75	654.45	652.71	1.96	-1.17	-1.58
10,164.00	88.19	90.98	9,439.84	119.79	748.36	746.64	6.52	-6.50	-0.46
10,259.00	88.02	91.32	9,442.98	117.89	843.29	841.59	0.40	-0.18	0.36
10,353.00	88.56	90.80	9,445.79	116.15	937.23	935.54	0.80	0.57	-0.55
10,448.00	89.23	90.87	9,447.62	114.76	1,032.20	1,030.52	0.71	0.71	0.07
10,542.00	87.72	92.78	9,450.12	111.77	1,126.12	1,124.47	2.59	-1.61	2.03
10,637.00	87.65	92.02	9,453.96	107.80	1,220.95	1,219.35	0.80	-0.07	-0.80
10,731.00	88.19	91.87	9,457.37	104.61	1,314.84	1,313.27	0.60	0.57	-0.16
10,825.00	89.56	93.04	9,459.22	100.58	1,408.73	1,407.21	1.92	1.46	1.24
10,919.00	88.36	93.15	9,460.92	95.51	1,502.58	1,501.12	1.28	-1.28	0.12
11,014.00	87.72	92.78	9,464.17	90.60	1,597.39	1,595.99	0.78	-0.67	-0.39
11,108.00	87.75	92.86	9,467.89	85.98	1,691.21	1,689.86	0.09	0.03	0.09
11,203.00	88.29	92.27	9,471.17	81.73	1,786.05	1,784.76	0.84	0.57	-0.62
11,297.00	88.86	92.75	9,473.51	77.61	1,879.93	1,878.68	0.79	0.61	0.51
11,391.00	88.99	91.93	9,475.27	73.78	1,973.84	1,972.63	0.88	0.14	-0.87
11,486.00	89.56	90.41	9,476.47	71.84	2,068.81	2,067.62	1.71	0.60	-1.60
11,580.00	90.57	90.58	9,476.37	71.02	2,162.80	2,161.62	1.09	1.07	0.18
11,675.00	90.77	90.66	9,475.25	70.00	2,257.79	2,256.61	0.23	0.21	0.08
11,769.00	89.87	88.94	9,474.73	70.32	2,351.78	2,350.59	2.07	-0.96	-1.83
11,863.00	90.47	89.45	9,474.45	71.64	2,445.77	2,444.55	0.84	0.64	0.54
11,958.00	89.73	88.10	9,474.28	73.68	2,540.75	2,539.49	1.62	-0.78	-1.42
12,052.00	88.89	89.41	9,475.42	75.72	2,634.72	2,633.42	1.66	-0.89	1.39
12,147.00	87.58	90.02	9,478.34	76.19	2,729.67	2,728.36	1.52	-1.38	0.64
12,241.00	87.65	88.71	9,482.25	77.23	2,823.58	2,822.24	1.39	0.07	-1.39
12,335.00	88.56	87.63	9,485.36	80.23	2,917.48	2,916.09	1.50	0.97	-1.15
12,430.00	88.89	85.85	9,487.48	85.63	3,012.30	3,010.83	1.91	0.35	-1.87
12,524.00	89.23	87.60	9,489.02	91.00	3,106.13	3,104.58	1.90	0.36	1.86
12,618.00	89.56	89.50	9,490.01	93.38	3,200.09	3,198.49	2.05	0.35	2.02
12,713.00	88.99	90.50	9,491.21	93.38	3,295.08	3,293.48	1.21	-0.60	1.05
12,807.00	88.02	90.15	9,493.67	92.85	3,389.04	3,387.44	1.10	-1.03	-0.37
12,921.00	86.31	92.02	9,499.30	90.69	3,502.87	3,501.29	2.22	-1.50	1.64
12,995.00	86.37	92.18	9,504.03	87.99	3,576.67	3,575.12	0.23	0.08	0.22
13,090.00	87.01	91.52	9,509.51	84.92	3,671.46	3,669.94	0.97	0.67	-0.69
13,184.00	87.95	91.84	9,513.65	82.17	3,765.33	3,763.84	1.06	1.00	0.34
13,278.00	86.68	92.73	9,518.05	78.43	3,859.15	3,857.70	1.65	-1.35	0.95
13,372.00	87.31	92.56	9,522.98	74.10	3,952.92	3,951.52	0.69	0.67	-0.18
13,466.00	87.82	90.32	9,526.97	71.74	4,046.80	4,045.43	2.44	0.54	-2.38
13,561.00	88.59	88.26	9,529.95	72.91	4,141.74	4,140.34	2.31	0.81	-2.17

Survey Report

Company: Marathon Oil Permian, LLC
Project: Eddy County, NM (NAD27)
Site: Fiddle Fee 24-28-23
Well: TB #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well TB #2H
TVD Reference: KB = 26.5' @ 3023.50usft (H&P 498)
MD Reference: KB = 26.5' @ 3023.50usft (H&P 498)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,655.00	88.22	91.04	9,532.57	73.49	4,235.69	4,234.28	2.98	-0.39	2.96
13,749.00	89.26	92.77	9,534.63	70.36	4,329.61	4,328.23	2.15	1.11	1.84
13,844.00	88.45	93.51	9,536.53	65.16	4,424.45	4,423.13	1.15	-0.85	0.78
13,938.00	88.32	93.54	9,539.18	59.38	4,518.23	4,516.99	0.14	-0.14	0.03
14,032.00	87.95	92.31	9,542.24	54.59	4,612.06	4,610.87	1.37	-0.39	-1.31
14,127.00	88.72	91.97	9,545.00	51.04	4,706.95	4,705.80	0.89	0.81	-0.36
14,220.00	89.90	91.90	9,546.12	47.90	4,799.89	4,798.77	1.27	1.27	-0.08
FINAL MWD Survey (14220.00' MD) - BHL[FF#2H]									
14,286.00	89.90	91.90	9,546.23	45.72	4,865.85	4,864.76	0.00	0.00	0.00
FINAL Proj. to Bit (14286.00' MD)									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,220.00	9,546.12	47.90	4,799.89	FINAL MWD Survey (14220.00' MD)
14,286.00	9,546.23	45.72	4,865.85	FINAL Proj. to Bit (14286.00' MD)

Checked By: _____ Approved By: _____ Date: _____

Marathon Oil Corporation

EDDY COUNTY, NM (NAD27)
FIDDLE FEE 24-28-23
TB #2H

FINAL AS-DRILLED
H&P 498

WELL DETAILS:

Ground Level: 2997.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 439985.99 582880.48 32° 12' 33.677 N 104° 3' 55.537 W

SECTION DETAILS

MD	INC	AZI	TVD	+N/-S	+E/-W	DLEG	TFACE	VSECT	TARGET
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	
5500.00	5.00	300.00	5499.37	10.90	-18.88	1.00	300.00	-19.03	
7970.00	5.00	300.00	7959.97	118.54	-205.32	0.30	0.00	-206.93	
8470.00	0.00	0.00	8459.33	129.14	-224.20	1.00	180.00	-225.96	
8836.11	0.00	0.00	8825.44	129.14	-224.20	0.30	0.00	-225.96	
9716.11	88.00	90.79	9398.05	121.80	328.71	10.00	90.79	327.00	
14213.40	88.00	90.79	9555.00	59.74	4822.84	0.00	0.00	4821.56	BHL(F#2H)
14258.43	88.00	90.79	9556.57	59.12	4857.84	0.00	0.00	4856.56	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(F#2H)	9396.00	126.84	-21.24	440112.82	582839.22
BHL(F#2H)	9555.00	59.74	4822.84	440045.73	587682.90



To convert Magnetic North to Grid, Add 7.09°
To convert True North to Grid, Subtract 0.14°

Azimuths to Grid North
True North: -0.14°
Magnetic North: 7.09°
Magnetic Field
Strength: 48048.5nT
Dip Angle: 60.00°
Date: 12/13/2017
Model: HDGM

CALLING DETAILS

No casing data is available

SITE DETAILS: Fiddle Fee 24-28-23
Site Centre Northing: 439935.99
Easting: 582880.48

Positional Uncertainty: 0.00
Convergence: 0.14
Local North: Grid

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone Name: New Mexico East 3001

Local Origin: Well TB #2H, Grid North

Latitude: 32° 12' 33.677 N
Longitude: 104° 3' 55.537 W

Grid East: 582880.48
Grid North: 439935.99
Scale Factor: 1.000

Geomagnetic Model: HDGM
Sample Date: 13-Dec-17
Magnetic Declination: 7.23°
Dip Angle from Horizontal: 60.00°
Magnetic Field Strength: 48049

To convert Magnetic North to Grid, Add 7.09°
To convert Magnetic North to True, Add 7.23° East
To convert True North to Grid, Subtract 0.14°

PROJECT DETAILS: Eddy County, NM (NAD27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001

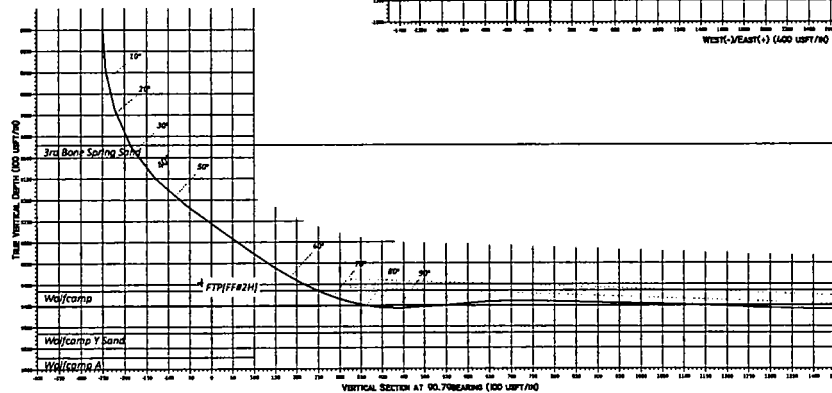
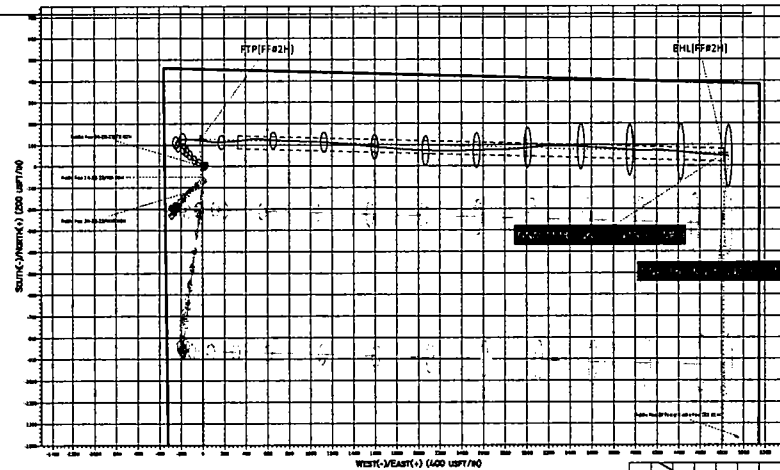
System Datum: Mean Sea Level

GL ELEV.: 2997.00

DEPTH REF. KB = 26.5' @ 3023.50USFT (H&P 498)

DRILLING TARGET: 9385' TVD @ 0VS // 88.0° INC.

WINDOW: 10 UP // 10 DOWN // 20' L // 40' R



Scientific Drilling

FIDDLE FEE 24-28-23