

MAR 28 2018

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #2H
Project:	Eddy County, NM	TVD Reference:	3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Site:	Mariner Fee 23-28-19	MD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Well:	TB #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

30-015-44850

Project:	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		

Site:	Mariner Fee 23-28-19
Site Position:	Northing: 472,817.80 usft Latitude: 32.2997177
From: Map	Easting: 564,941.79 usft Longitude: -104.1231537
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 " Grid Convergence: 0.11 °

Well:	TB #2H
Well Position	+N/-S 0.00 usft Northing: 472,817.46 usft Latitude: 32.2997169
	+E/-W 0.00 usft Easting: 564,912.36 usft Longitude: -104.1232490
Position Uncertainty	0.00 usft Wellhead Elevation: usft Ground Level: 3,066.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	3/22/2018	7.30	60.08	48,024.20

Design:	Prelim Plan A			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.91

Survey Tool Program		Date	3/22/2018	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,262.20	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[MarinerTB#2H]FTP: 995' VS									
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

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #2H
Project:	Eddy County, NM	TVD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Site:	Mariner Fee 23-28-19	MD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Well:	TB #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
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	1.00	207.40	1,599.99	-0.77	-0.40	0.77	1.00	1.00	0.00	
1,700.00	2.00	207.40	1,699.96	-3.10	-1.61	3.10	1.00	1.00	0.00	
1,800.00	3.00	207.40	1,799.86	-6.97	-3.61	6.97	1.00	1.00	0.00	
1,900.00	4.00	207.40	1,899.68	-12.39	-6.42	12.38	1.00	1.00	0.00	
2,000.00	5.00	207.40	1,999.37	-19.36	-10.03	19.34	1.00	1.00	0.00	
2,100.00	6.00	207.40	2,098.90	-27.87	-14.44	27.84	1.00	1.00	0.00	
2,200.00	7.00	207.40	2,198.26	-37.92	-19.65	37.89	1.00	1.00	0.00	
2,300.00	8.00	207.40	2,297.40	-49.50	-25.66	49.46	1.00	1.00	0.00	
2,400.00	9.00	207.40	2,396.30	-62.63	-32.46	62.58	1.00	1.00	0.00	
2,500.00	10.00	207.40	2,494.93	-77.28	-40.06	77.22	1.00	1.00	0.00	
2,600.00	10.00	207.40	2,593.41	-92.70	-48.05	92.62	0.00	0.00	0.00	
2,700.00	10.00	207.40	2,691.89	-108.11	-56.04	108.03	0.00	0.00	0.00	
2,800.00	10.00	207.40	2,790.37	-123.53	-64.03	123.43	0.00	0.00	0.00	
2,900.00	10.00	207.40	2,888.85	-138.95	-72.02	138.83	0.00	0.00	0.00	
3,000.00	10.00	207.40	2,987.33	-154.37	-80.01	154.24	0.00	0.00	0.00	
3,100.00	10.00	207.40	3,085.82	-169.78	-88.00	169.64	0.00	0.00	0.00	
3,200.00	10.00	207.40	3,184.30	-185.20	-95.99	185.05	0.00	0.00	0.00	
3,300.00	10.00	207.40	3,282.78	-200.62	-103.99	200.45	0.00	0.00	0.00	
3,400.00	10.00	207.40	3,381.26	-216.03	-111.98	215.86	0.00	0.00	0.00	
3,500.00	10.00	207.40	3,479.74	-231.45	-119.97	231.26	0.00	0.00	0.00	
3,600.00	10.00	207.40	3,578.22	-246.87	-127.96	246.66	0.00	0.00	0.00	
3,700.00	10.00	207.40	3,676.70	-262.28	-135.95	262.07	0.00	0.00	0.00	
3,800.00	10.00	207.40	3,775.18	-277.70	-143.94	277.47	0.00	0.00	0.00	
3,900.00	10.00	207.40	3,873.66	-293.12	-151.93	292.88	0.00	0.00	0.00	
4,000.00	10.00	207.40	3,972.14	-308.53	-159.92	308.28	0.00	0.00	0.00	
4,100.00	10.00	207.40	4,070.62	-323.95	-167.91	323.69	0.00	0.00	0.00	
4,200.00	10.00	207.40	4,169.10	-339.37	-175.90	339.09	0.00	0.00	0.00	
4,300.00	10.00	207.40	4,267.58	-354.78	-183.90	354.50	0.00	0.00	0.00	
4,400.00	10.00	207.40	4,366.07	-370.20	-191.89	369.90	0.00	0.00	0.00	
4,500.00	10.00	207.40	4,464.55	-385.62	-199.88	385.30	0.00	0.00	0.00	
4,600.00	10.00	207.40	4,563.03	-401.04	-207.87	400.71	0.00	0.00	0.00	
4,700.00	10.00	207.40	4,661.51	-416.45	-215.86	416.11	0.00	0.00	0.00	
4,742.99	10.00	207.40	4,703.84	-423.08	-219.30	422.73	0.00	0.00	0.00	
4,800.00	9.14	207.40	4,760.06	-431.50	-223.66	431.14	1.50	-1.50	0.00	

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,900.00	7.64	207.40	4,858.99	-444.46	-230.38	444.10	1.50	-1.50	0.00	
5,000.00	6.14	207.40	4,958.26	-455.12	-235.90	454.74	1.50	-1.50	0.00	
5,100.00	4.64	207.40	5,057.81	-463.46	-240.23	463.08	1.50	-1.50	0.00	
5,200.00	3.14	207.40	5,157.58	-469.49	-243.35	469.11	1.50	-1.50	0.00	
5,300.00	1.64	207.40	5,257.49	-473.20	-245.28	472.82	1.50	-1.50	0.00	
5,409.66	0.00	0.00	5,367.13	-474.60	-246.00	474.21	1.50	-1.50	0.00	
5,500.00	0.00	0.00	5,457.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,557.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,657.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,757.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,857.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,957.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,057.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,157.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,257.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,357.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,457.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,557.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,657.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,757.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,857.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,957.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,057.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,157.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,257.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,357.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,457.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,557.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,657.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,757.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,857.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,957.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,057.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,157.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,257.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,357.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,457.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,557.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,657.48	-474.60	-246.00	474.21	0.00	0.00	0.00	
8,771.52	0.00	0.00	8,729.00	-474.60	-246.00	474.21	0.00	0.00	0.00	
[MarinerTB#2H]KOP										
8,800.00	3.13	179.91	8,757.46	-475.38	-246.00	474.99	11.00	11.00	0.00	

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #2H
Project:	Eddy County, NM	TVD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Site:	Mariner Fee 23-28-19	MD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Well:	TB #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,850.00	8.63	179.91	8,807.18	-480.50	-245.99	480.11	11.00	11.00	0.00	
8,900.00	14.13	179.91	8,856.18	-490.36	-245.98	489.98	11.00	11.00	0.00	
8,950.00	19.63	179.91	8,904.00	-504.88	-245.95	504.49	11.00	11.00	0.00	
9,000.00	25.13	179.91	8,950.22	-523.91	-245.93	523.52	11.00	11.00	0.00	
9,050.00	30.63	179.91	8,994.40	-547.28	-245.89	546.90	11.00	11.00	0.00	
9,100.00	36.13	179.91	9,036.13	-574.79	-245.85	574.40	11.00	11.00	0.00	
9,150.00	41.63	179.91	9,075.04	-606.16	-245.80	605.77	11.00	11.00	0.00	
9,200.00	47.13	179.91	9,110.76	-641.12	-245.75	640.73	11.00	11.00	0.00	
9,250.00	52.63	179.91	9,142.97	-679.34	-245.69	678.95	11.00	11.00	0.00	
9,300.00	58.13	179.91	9,171.36	-720.47	-245.63	720.08	11.00	11.00	0.00	
9,350.00	63.63	179.91	9,195.68	-764.14	-245.56	763.75	11.00	11.00	0.00	
9,400.00	69.13	179.91	9,215.70	-809.93	-245.49	809.54	11.00	11.00	0.00	
9,450.00	74.63	179.91	9,231.25	-857.43	-245.42	857.05	11.00	11.00	0.00	
9,500.00	80.13	179.91	9,242.17	-906.21	-245.35	905.82	11.00	11.00	0.00	
9,550.00	85.63	179.91	9,248.36	-955.80	-245.27	955.42	11.00	11.00	0.00	
9,589.69	90.00	179.91	9,249.87	-995.46	-245.21	995.07	11.00	11.00	0.00	
9,600.00	90.00	179.91	9,249.87	-1,005.76	-245.20	1,005.38	0.00	0.00	0.00	
9,700.00	90.00	179.91	9,249.87	-1,105.76	-245.04	1,105.38	0.00	0.00	0.00	
9,800.00	90.00	179.91	9,249.88	-1,205.76	-244.89	1,205.38	0.00	0.00	0.00	
9,900.00	90.00	179.91	9,249.88	-1,305.76	-244.74	1,305.38	0.00	0.00	0.00	
10,000.00	90.00	179.91	9,249.88	-1,405.76	-244.59	1,405.38	0.00	0.00	0.00	
10,100.00	90.00	179.91	9,249.89	-1,505.76	-244.44	1,505.38	0.00	0.00	0.00	
10,200.00	90.00	179.91	9,249.89	-1,605.76	-244.29	1,605.38	0.00	0.00	0.00	
10,300.00	90.00	179.91	9,249.89	-1,705.76	-244.13	1,705.38	0.00	0.00	0.00	
10,400.00	90.00	179.91	9,249.89	-1,805.76	-243.98	1,805.38	0.00	0.00	0.00	
10,500.00	90.00	179.91	9,249.90	-1,905.76	-243.83	1,905.38	0.00	0.00	0.00	
10,600.00	90.00	179.91	9,249.90	-2,005.76	-243.68	2,005.38	0.00	0.00	0.00	
10,700.00	90.00	179.91	9,249.90	-2,105.76	-243.53	2,105.38	0.00	0.00	0.00	
10,800.00	90.00	179.91	9,249.90	-2,205.76	-243.38	2,205.38	0.00	0.00	0.00	
10,900.00	90.00	179.91	9,249.91	-2,305.76	-243.23	2,305.38	0.00	0.00	0.00	
11,000.00	90.00	179.91	9,249.91	-2,405.76	-243.07	2,405.38	0.00	0.00	0.00	
11,100.00	90.00	179.91	9,249.91	-2,505.76	-242.92	2,505.38	0.00	0.00	0.00	
11,200.00	90.00	179.91	9,249.92	-2,605.76	-242.77	2,605.38	0.00	0.00	0.00	
11,300.00	90.00	179.91	9,249.92	-2,705.76	-242.62	2,705.38	0.00	0.00	0.00	
11,400.00	90.00	179.91	9,249.92	-2,805.76	-242.47	2,805.38	0.00	0.00	0.00	
11,500.00	90.00	179.91	9,249.92	-2,905.76	-242.32	2,905.38	0.00	0.00	0.00	
11,600.00	90.00	179.91	9,249.93	-3,005.76	-242.16	3,005.38	0.00	0.00	0.00	
11,700.00	90.00	179.91	9,249.93	-3,105.76	-242.01	3,105.38	0.00	0.00	0.00	
11,800.00	90.00	179.91	9,249.93	-3,205.76	-241.86	3,205.38	0.00	0.00	0.00	
11,900.00	90.00	179.91	9,249.93	-3,305.76	-241.71	3,305.38	0.00	0.00	0.00	
12,000.00	90.00	179.91	9,249.94	-3,405.76	-241.56	3,405.38	0.00	0.00	0.00	
12,100.00	90.00	179.91	9,249.94	-3,505.76	-241.41	3,505.38	0.00	0.00	0.00	

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #2H
Project:	Eddy County, NM	TVD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Site:	Mariner Fee 23-28-19	MD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Well:	TB #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,200.00	90.00	179.91	9,249.94	-3,605.76	-241.26	3,605.38	0.00	0.00	0.00	
12,300.00	90.00	179.91	9,249.95	-3,705.76	-241.10	3,705.38	0.00	0.00	0.00	
12,400.00	90.00	179.91	9,249.95	-3,805.76	-240.95	3,805.38	0.00	0.00	0.00	
12,500.00	90.00	179.91	9,249.95	-3,905.76	-240.80	3,905.38	0.00	0.00	0.00	
12,600.00	90.00	179.91	9,249.95	-4,005.76	-240.65	4,005.38	0.00	0.00	0.00	
12,700.00	90.00	179.91	9,249.96	-4,105.76	-240.50	4,105.38	0.00	0.00	0.00	
12,800.00	90.00	179.91	9,249.96	-4,205.76	-240.35	4,205.38	0.00	0.00	0.00	
12,900.00	90.00	179.91	9,249.96	-4,305.76	-240.19	4,305.38	0.00	0.00	0.00	
13,000.00	90.00	179.91	9,249.97	-4,405.76	-240.04	4,405.38	0.00	0.00	0.00	
13,100.00	90.00	179.91	9,249.97	-4,505.76	-239.89	4,505.38	0.00	0.00	0.00	
13,200.00	90.00	179.91	9,249.97	-4,605.76	-239.74	4,605.38	0.00	0.00	0.00	
13,300.00	90.00	179.91	9,249.97	-4,705.76	-239.59	4,705.38	0.00	0.00	0.00	
13,400.00	90.00	179.91	9,249.98	-4,805.76	-239.44	4,805.38	0.00	0.00	0.00	
13,500.00	90.00	179.91	9,249.98	-4,905.76	-239.29	4,905.38	0.00	0.00	0.00	
13,600.00	90.00	179.91	9,249.98	-5,005.76	-239.13	5,005.38	0.00	0.00	0.00	
13,700.00	90.00	179.91	9,249.98	-5,105.76	-238.98	5,105.38	0.00	0.00	0.00	
13,800.00	90.00	179.91	9,249.99	-5,205.76	-238.83	5,205.38	0.00	0.00	0.00	
13,900.00	90.00	179.91	9,249.99	-5,305.76	-238.68	5,305.38	0.00	0.00	0.00	
14,000.00	90.00	179.91	9,249.99	-5,405.76	-238.53	5,405.38	0.00	0.00	0.00	
14,100.00	90.00	179.91	9,250.00	-5,505.76	-238.38	5,505.38	0.00	0.00	0.00	
14,200.00	90.00	179.91	9,250.00	-5,605.76	-238.22	5,605.38	0.00	0.00	0.00	
14,262.57	90.00	179.91	9,250.00	-5,668.33	-238.13	5,667.95	0.00	0.00	0.00	
[MarinerTB#2H]LTP/BHL: 5668' VS										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
[MarinerTB#2H]FTP: 99! - plan misses target center by 1025.27usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-995.43	-245.54	471,822.03	564,666.82	32.2969818	-104.1240499	
[MarinerTB#2H]KOP - plan hits target center - Point	0.00	0.00	8,729.00	-474.60	-246.00	472,342.86	564,666.36	32.2984136	-104.1240481	
[MarinerTB#2H]LTP/BHL - plan hits target center - Point	0.00	0.00	9,250.00	-5,668.33	-238.13	467,149.13	564,674.23	32.2841363	-104.1240555	

Checked By: _____	Approved By: _____	Date: _____
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Marathon Oil
Eddy County, NM
Mariner Fee 23-28-19
TB #2H
Prelim Plan A
GL: 3066' + KB: 26.5' (H&PA23)

US State Plane 1987 (East solution)
NAD 1987 (NAD83 CONUS)
New Mexico East 3001
Main Slat Level

RKB Elevation: Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&PA23))

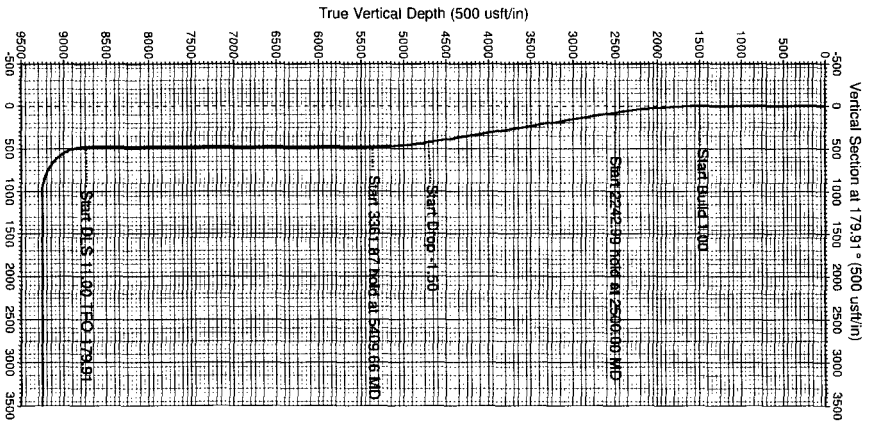
+N/S	+E/W	North	Easting	Latitude	Longitude	Spot
0.00	0.00	472817.46	564912.36	32.297169	-104.1232490	

SECTION DETAILS

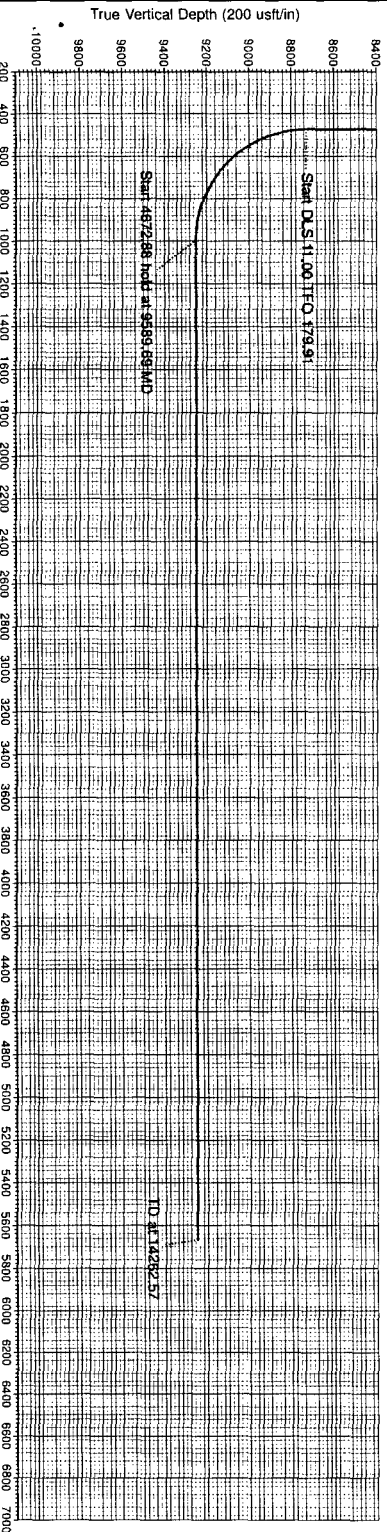
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Diag	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	-7.28	-40.06	7.12	7.12
3	2300.00	10.00	207.40	2300.00	-42.88	-210.06	422.23	422.23
4	2500.00	10.00	207.40	2500.00	-42.88	-210.06	422.23	422.23
5	5409.66	0.00	0.00	5367.13	-474.60	-246.00	474.21	474.21
6	8771.52	0.00	0.00	8729.00	-474.60	-246.00	995.07	995.07
7	9589.69	90.00	179.91	9249.87	-995.46	-245.21	5687.95	5687.95
8	14262.57	90.00	179.91	9250.00	-5688.33	-238.13	0.00	0.00

WELBORE TARGET DETAILS MAP CO-ORDINATES

Name	TVD	+N/S	+E/W	North	Easting
MarinerTB2HJFP: 995 VS	0.00	-995.43	-245.54	471822.03	564666.82
MarinerTB2HJFP	8729.00	-474.60	-246.00	472342.86	564666.36
MarinerTB2HJFP:BHL: 5688 VS	9250.00	-5688.33	-238.13	467149.13	564674.23

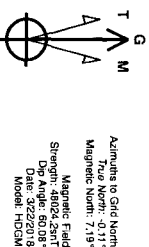
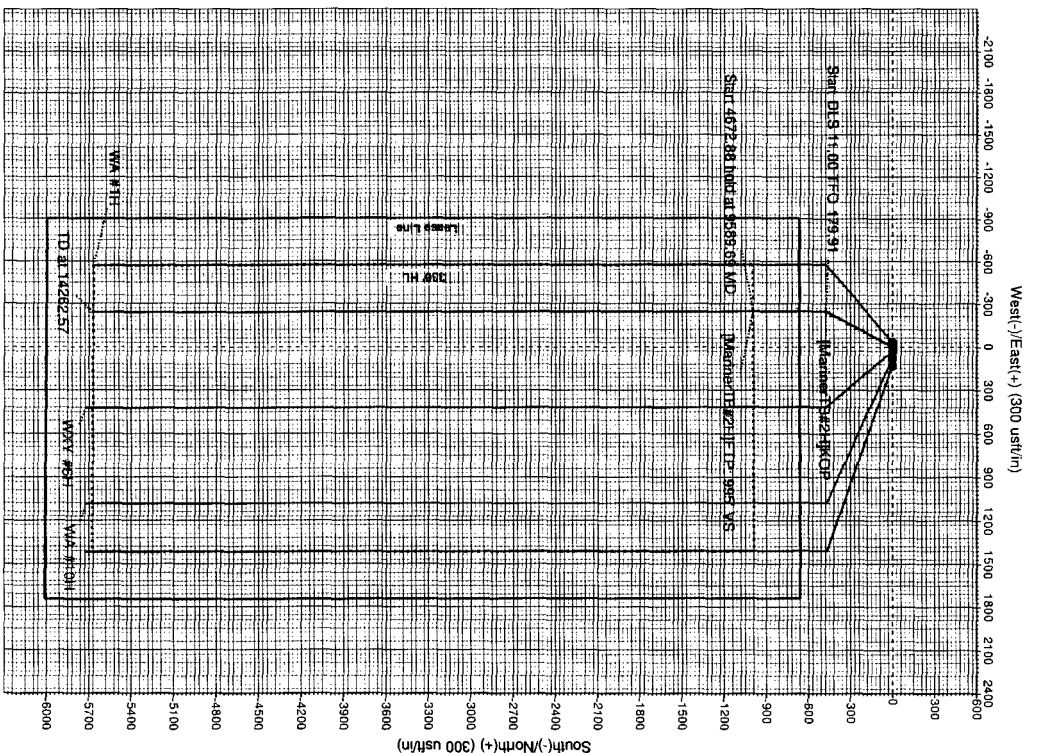


Target Line: 9250' TVD @ 0° VS: 90° INC



36" x 48"

Vertical Section at 179.91° (200 usft/in)



Total Magnetic Corr. (M to T): 7.19°
Declination (M to T): 7.30° East