

30-05-37143



Marbob

**Eddy County
Nervous Horz Com
#2H
OH**

Plan: Plan #1

Pathfinder X & Y Planning Report

24 June, 2009

PATHFINDER



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: Marbob
Project: Eddy County
Site: Nervous Horz Com
Well: #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #2H
TVD Reference: WELL @ 3684.00ft (Original Well Elev)
MD Reference: WELL @ 3684.00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project: Eddy County
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: Nervous Horz Com
Site Position: **From:** Map **Northing:** 622,495.300 ft **Latitude:** 32° 42' 37.034 N
Position Uncertainty: 0.00 ft **Easting:** 657,801.100 ft **Longitude:** 103° 49' 13.071 W
Slot Radius: " **Grid Convergence:** 0.28 °

Well: #2H
Well Position: **+N/-S:** 0.00 ft **Northing:** 622,506.200 ft **Latitude:** 32° 42' 37.073 N
Position Uncertainty: 0.00 ft **+E/-W:** 0.00 ft **Easting:** 659,250.700 ft **Longitude:** 103° 48' 56.105 W
Wellhead Elevation: ft **Ground Level:** 3,670.00 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	06/24/2009	7.96	60.66	49,106

Design: Plan #1
Audit Notes:
Version: **Phase:** PLAN **Tie On Depth:** 0.00
Vertical Section: **Depth From (TVD) (ft):** 0.00 **+N/-S (ft):** 0.00 **+E/-W (ft):** 0.00 **Direction (°):** 178.39

Survey Tool Program **Date:** 06/24/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,567.99	Plan #1 (OH)	MWD	MWD - Standard



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Planned Survey												
MD (ft)	Inc (")	Azi (")	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg ("/100ft)	Northing (ft)	Easting (ft)		
0.00	0.00	0.00	0.00	-3,684.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
100.00	0.00	0.00	100.00	-3,584.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
200.00	0.00	0.00	200.00	-3,484.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
300.00	0.00	0.00	300.00	-3,384.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
400.00	0.00	0.00	400.00	-3,284.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
500.00	0.00	0.00	500.00	-3,184.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
600.00	0.00	0.00	600.00	-3,084.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
700.00	0.00	0.00	700.00	-2,984.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
800.00	0.00	0.00	800.00	-2,884.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
900.00	0.00	0.00	900.00	-2,784.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,000.00	0.00	0.00	1,000.00	-2,684.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,100.00	0.00	0.00	1,100.00	-2,584.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,200.00	0.00	0.00	1,200.00	-2,484.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,300.00	0.00	0.00	1,300.00	-2,384.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,400.00	0.00	0.00	1,400.00	-2,284.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,500.00	0.00	0.00	1,500.00	-2,184.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,600.00	0.00	0.00	1,600.00	-2,084.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,700.00	0.00	0.00	1,700.00	-1,984.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,800.00	0.00	0.00	1,800.00	-1,884.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
1,900.00	0.00	0.00	1,900.00	-1,784.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,000.00	0.00	0.00	2,000.00	-1,684.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,100.00	0.00	0.00	2,100.00	-1,584.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,200.00	0.00	0.00	2,200.00	-1,484.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,300.00	0.00	0.00	2,300.00	-1,384.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,400.00	0.00	0.00	2,400.00	-1,284.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,500.00	0.00	0.00	2,500.00	-1,184.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		
2,600.00	0.00	0.00	2,600.00	-1,084.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70		



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Well #2H
WELL @ 3684.00ft (Original Well Elev)
WELL @ 3684.00ft (Original Well Elev)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-984.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
2,800.00	0.00	0.00	2,800.00	-884.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
2,900.00	0.00	0.00	2,900.00	-784.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,000.00	0.00	0.00	3,000.00	-684.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,100.00	0.00	0.00	3,100.00	-584.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,200.00	0.00	0.00	3,200.00	-484.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,300.00	0.00	0.00	3,300.00	-384.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,400.00	0.00	0.00	3,400.00	-284.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,500.00	0.00	0.00	3,500.00	-184.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,600.00	0.00	0.00	3,600.00	-84.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,700.00	0.00	0.00	3,700.00	16.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,800.00	0.00	0.00	3,800.00	116.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
3,900.00	0.00	0.00	3,900.00	216.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,000.00	0.00	0.00	4,000.00	316.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,100.00	0.00	0.00	4,100.00	416.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,200.00	0.00	0.00	4,200.00	516.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,300.00	0.00	0.00	4,300.00	616.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,400.00	0.00	0.00	4,400.00	716.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,500.00	0.00	0.00	4,500.00	816.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,600.00	0.00	0.00	4,600.00	916.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,700.00	0.00	0.00	4,700.00	1,016.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,800.00	0.00	0.00	4,800.00	1,116.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
4,900.00	0.00	0.00	4,900.00	1,216.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,000.00	0.00	0.00	5,000.00	1,316.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,100.00	0.00	0.00	5,100.00	1,416.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,200.00	0.00	0.00	5,200.00	1,516.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,300.00	0.00	0.00	5,300.00	1,616.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70



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5,400.00	0.00	0.00	5,400.00	1,716.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,500.00	0.00	0.00	5,500.00	1,816.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,600.00	0.00	0.00	5,600.00	1,916.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,700.00	0.00	0.00	5,700.00	2,016.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,800.00	0.00	0.00	5,800.00	2,116.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
5,900.00	0.00	0.00	5,900.00	2,216.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,000.00	0.00	0.00	6,000.00	2,316.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,100.00	0.00	0.00	6,100.00	2,416.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,200.00	0.00	0.00	6,200.00	2,516.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,300.00	0.00	0.00	6,300.00	2,616.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,400.00	0.00	0.00	6,400.00	2,716.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,500.00	0.00	0.00	6,500.00	2,816.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,600.00	0.00	0.00	6,600.00	2,916.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,700.00	0.00	0.00	6,700.00	3,016.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,800.00	0.00	0.00	6,800.00	3,116.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
6,900.00	0.00	0.00	6,900.00	3,216.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,000.00	0.00	0.00	7,000.00	3,316.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,100.00	0.00	0.00	7,100.00	3,416.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,200.00	0.00	0.00	7,200.00	3,516.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,300.00	0.00	0.00	7,300.00	3,616.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,400.00	0.00	0.00	7,400.00	3,716.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,500.00	0.00	0.00	7,500.00	3,816.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,600.00	0.00	0.00	7,600.00	3,916.00	0.00	0.00	0.00	0.00	622,506.20	659,250.70
7,672.50	0.00	0.00	7,672.50	3,988.50	0.00	0.00	0.00	0.00	622,506.20	659,250.70
KOP-7672.50°MD,0.00°INC,0.00°AZI										
7,675.00	0.30	178.39	7,675.00	3,991.00	-0.01	0.00	0.01	12.00	622,506.19	659,250.70
7,700.00	3.30	178.39	7,699.98	4,015.98	-0.79	0.02	0.79	12.00	622,505.41	659,250.72



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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,725.00	6.30	178.39	7,724.89	4,040.89	-2.88	0.08	2.88	12.00	622,503.32	659,250.78
7,750.00	9.30	178.39	7,749.66	4,065.66	-6.27	0.18	6.28	12.00	622,499.93	659,250.88
7,775.00	12.30	178.39	7,774.21	4,090.21	-10.95	0.31	10.96	12.00	622,495.25	659,251.01
7,800.00	15.30	178.39	7,798.49	4,114.49	-16.91	0.48	16.92	12.00	622,489.29	659,251.18
7,825.00	18.30	178.39	7,822.42	4,138.42	-24.14	0.68	24.15	12.00	622,482.06	659,251.38
7,850.00	21.30	178.39	7,845.94	4,161.94	-32.60	0.92	32.61	12.00	622,473.60	659,251.62
7,875.00	24.30	178.39	7,868.98	4,184.98	-42.28	1.19	42.30	12.00	622,463.92	659,251.89
7,900.00	27.30	178.39	7,891.49	4,207.49	-53.16	1.49	53.18	12.00	622,453.04	659,252.19
7,925.00	30.30	178.39	7,913.40	4,229.40	-65.19	1.83	65.22	12.00	622,441.01	659,252.53
7,950.00	33.30	178.39	7,934.64	4,250.64	-78.36	2.20	78.39	12.00	622,427.84	659,252.90
7,975.00	36.30	178.39	7,955.17	4,271.17	-92.62	2.60	92.66	12.00	622,413.58	659,253.30
8,000.00	39.30	178.39	7,974.92	4,290.92	-107.93	3.03	107.98	12.00	622,398.27	659,253.73
8,025.00	42.30	178.39	7,993.84	4,309.84	-124.26	3.49	124.31	12.00	622,381.94	659,254.19
8,050.00	45.30	178.39	8,011.89	4,327.89	-141.55	3.98	141.61	12.00	622,364.65	659,254.68
8,075.00	48.30	178.39	8,029.00	4,345.00	-159.77	4.49	159.83	12.00	622,346.43	659,255.19
8,100.00	51.30	178.39	8,045.14	4,361.14	-178.85	5.03	178.92	12.00	622,327.35	659,255.73
8,125.00	54.30	178.39	8,060.25	4,376.25	-198.75	5.59	198.83	12.00	622,307.45	659,256.29
8,150.00	57.30	178.39	8,074.30	4,390.30	-219.42	6.17	219.51	12.00	622,286.78	659,256.87
8,175.00	60.30	178.39	8,087.25	4,403.25	-240.79	6.77	240.89	12.00	622,265.41	659,257.47
8,200.00	63.30	178.39	8,099.07	4,415.07	-262.81	7.39	262.92	12.00	622,243.39	659,258.09
8,225.00	66.30	178.39	8,109.71	4,425.71	-285.42	8.02	285.53	12.00	622,220.78	659,258.72
8,250.00	69.29	178.39	8,119.16	4,435.16	-308.55	8.67	308.68	12.00	622,197.65	659,259.37
8,275.00	72.29	178.39	8,127.38	4,443.38	-332.15	9.34	332.28	12.00	622,174.05	659,260.04
8,300.00	75.29	178.39	8,134.36	4,450.36	-356.15	10.01	356.29	12.00	622,150.05	659,260.71
8,325.00	78.29	178.39	8,140.07	4,456.07	-380.47	10.69	380.62	12.00	622,125.73	659,261.39
8,350.00	81.29	178.39	8,144.50	4,460.50	-405.06	11.39	405.22	12.00	622,101.14	659,262.09
8,375.00	84.29	178.39	8,147.63	4,463.63	-429.85	12.08	430.02	12.00	622,076.35	659,262.78



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8,400.00	87.29	178.39	8,149.47	4,465.47	-454.77	12.78	454.95	12.00	622,051.43	659,263.48
8,422.56	90.00	178.39	8,150.00	4,466.00	-477.31	13.42	477.50	12.00	622,028.89	659,264.12
EOC-8422.56°MD,90.00°INC,178.39°AZI,12.00°DLS,477.50°VS,-477.32°N,13.42°E										
8,500.00	90.00	178.39	8,150.00	4,466.00	-554.73	15.59	554.94	0.00	621,951.47	659,266.29
8,600.00	90.00	178.39	8,150.00	4,466.00	-654.69	18.40	654.94	0.00	621,851.51	659,269.10
8,700.00	90.00	178.39	8,150.00	4,466.00	-754.65	21.21	754.94	0.00	621,751.55	659,271.91
8,800.00	90.00	178.39	8,150.00	4,466.00	-854.61	24.02	854.94	0.00	621,651.59	659,274.72
8,900.00	90.00	178.39	8,150.00	4,466.00	-954.57	26.83	954.94	0.00	621,551.63	659,277.53
9,000.00	90.00	178.39	8,150.00	4,466.00	-1,054.53	29.64	1,054.94	0.00	621,451.67	659,280.34
9,100.00	90.00	178.39	8,150.00	4,466.00	-1,154.49	32.45	1,154.94	0.00	621,351.71	659,283.15
9,200.00	90.00	178.39	8,150.00	4,466.00	-1,254.45	35.26	1,254.94	0.00	621,251.75	659,285.96
9,300.00	90.00	178.39	8,150.00	4,466.00	-1,354.41	38.07	1,354.94	0.00	621,151.79	659,288.77
9,400.00	90.00	178.39	8,150.00	4,466.00	-1,454.37	40.88	1,454.94	0.00	621,051.83	659,291.58
9,500.00	90.00	178.39	8,150.00	4,466.00	-1,554.33	43.69	1,554.94	0.00	620,951.87	659,294.39
9,600.00	90.00	178.39	8,150.00	4,466.00	-1,654.29	46.50	1,654.94	0.00	620,851.91	659,297.20
9,700.00	90.00	178.39	8,150.00	4,466.00	-1,754.25	49.31	1,754.94	0.00	620,751.95	659,300.01
9,800.00	90.00	178.39	8,150.00	4,466.00	-1,854.21	52.12	1,854.94	0.00	620,651.99	659,302.82
9,900.00	90.00	178.39	8,150.00	4,466.00	-1,954.17	54.93	1,954.94	0.00	620,552.03	659,305.63
10,000.00	90.00	178.39	8,150.00	4,466.00	-2,054.13	57.74	2,054.94	0.00	620,452.07	659,308.44
10,100.00	90.00	178.39	8,150.00	4,466.00	-2,154.09	60.55	2,154.94	0.00	620,352.11	659,311.25
10,200.00	90.00	178.39	8,150.00	4,466.00	-2,254.05	63.36	2,254.94	0.00	620,252.15	659,314.06
10,300.00	90.00	178.39	8,150.00	4,466.00	-2,354.02	66.16	2,354.94	0.00	620,152.18	659,316.86
10,400.00	90.00	178.39	8,150.00	4,466.00	-2,453.98	68.97	2,454.94	0.00	620,052.22	659,319.67
10,500.00	90.00	178.39	8,150.00	4,466.00	-2,553.94	71.78	2,554.94	0.00	619,952.26	659,322.48
10,600.00	90.00	178.39	8,150.00	4,466.00	-2,653.90	74.59	2,654.94	0.00	619,852.30	659,325.29
10,700.00	90.00	178.39	8,150.00	4,466.00	-2,753.86	77.40	2,754.94	0.00	619,752.34	659,328.10
10,800.00	90.00	178.39	8,150.00	4,466.00	-2,853.82	80.21	2,854.94	0.00	619,652.38	659,330.91



Company: Marbob
Project: Eddy County
Site: Nervous Horz Com
Well: #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #2H
TVD Reference: WELL @ 3684.00ft (Original Well Elev)
MD Reference: WELL @ 3684.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,900.00	90.00	178.39	8,150.00	4,466.00	-2,953.78	83.02	2,954.94	0.00	619,552.42	659,333.72
11,000.00	90.00	178.39	8,150.00	4,466.00	-3,053.74	85.83	3,054.94	0.00	619,452.46	659,336.53
11,100.00	90.00	178.39	8,150.00	4,466.00	-3,153.70	88.64	3,154.94	0.00	619,352.50	659,339.34
11,200.00	90.00	178.39	8,150.00	4,466.00	-3,253.66	91.45	3,254.94	0.00	619,252.54	659,342.15
11,300.00	90.00	178.39	8,150.00	4,466.00	-3,353.62	94.26	3,354.94	0.00	619,152.58	659,344.96
11,400.00	90.00	178.39	8,150.00	4,466.00	-3,453.58	97.07	3,454.94	0.00	619,052.62	659,347.77
11,500.00	90.00	178.39	8,150.00	4,466.00	-3,553.54	99.88	3,554.94	0.00	618,952.66	659,350.58
11,600.00	90.00	178.39	8,150.00	4,466.00	-3,653.50	102.69	3,654.94	0.00	618,852.70	659,353.39
11,700.00	90.00	178.39	8,150.00	4,466.00	-3,753.46	105.50	3,754.94	0.00	618,752.74	659,356.20
11,800.00	90.00	178.39	8,150.00	4,466.00	-3,853.42	108.31	3,854.94	0.00	618,652.78	659,359.01
11,900.00	90.00	178.39	8,150.00	4,466.00	-3,953.38	111.12	3,954.94	0.00	618,552.82	659,361.82
12,000.00	90.00	178.39	8,150.00	4,466.00	-4,053.34	113.93	4,054.94	0.00	618,452.86	659,364.63
12,100.00	90.00	178.39	8,150.00	4,466.00	-4,153.30	116.74	4,154.94	0.00	618,352.90	659,367.44
12,200.00	90.00	178.39	8,150.00	4,466.00	-4,253.27	119.55	4,254.94	0.00	618,252.93	659,370.25
12,300.00	90.00	178.39	8,150.00	4,466.00	-4,353.23	122.36	4,354.94	0.00	618,152.97	659,373.06
12,400.00	90.00	178.39	8,150.00	4,466.00	-4,453.19	125.17	4,454.94	0.00	618,053.01	659,375.87
12,500.00	90.00	178.39	8,150.00	4,466.00	-4,553.15	127.98	4,554.94	0.00	617,953.05	659,378.68
12,567.99	90.00	178.39	8,150.00	4,466.00	-4,621.11	129.89	4,622.93	0.00	617,885.09	659,380.59

BHL-12567.99°MD,90.00°INC,178.39°AZI, 8150.00°TVD,4622.93°VS,4621.11°N, 129.89°E - PBHL(NH#2H)



Company: Marbob
Project: Eddy County
Site: Nervous Horz Com
Well: #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #2H
TVD Reference: WELL @ 3684.00ft (Original Well Elev)
MD Reference: WELL @ 3684.00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(NH#2H) - plan hits target - Point	0.00	0.00	8,150.00	-4,621.10	130.20	617,885.100	659,380.900	32° 41' 51.339 N	103° 48' 54.845 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,672.50	7,672.50	0.00	0.00	KOP-7672.50°MD,0.00°INC,0.00°AZI
8,422.56	8,150.00	-477.31	13.42	EOC-8422.56°MD,90.00°INC,178.39°AZI,12.00°DLS,477.50°VS,-477.3
12,567.99	8,150.00	-4,621.11	129.89	BHL-12567.99°MD,90.00°INC,178.39°AZI,8150.00°TVD,4622.93°VS,-

Checked By: _____ Approved By: _____ Date: _____

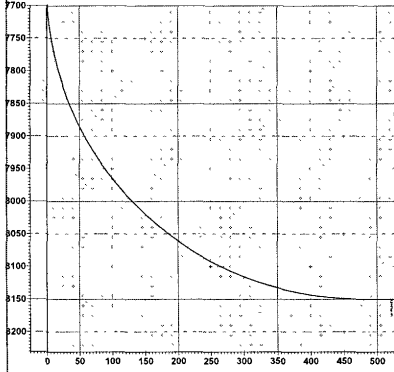


Project: Eddy County
 Site: Nervous Horz Com
 Well: #2H
 Wellbore: OH
 Plan: Plan #1 (#2H/OH)



Azimuths to Grid North
 True North: -0.28°
 Magnetic North: 7.68°

Magnetic Field
 Strength: 49106.1snT
 Dip Angle: 60.66°
 Date: 06/24/2009
 Model: IGRF200510



WELL DETAILS: #2H

Ground Elevation	3670.00					
RKB Elevation	WELL @ 3684.00ft (Original Well Elev)					
Rig Name	Original Well Elev					
+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	622506.200	659250.700	32° 42' 37.073 N	103° 48' 56.105 W	

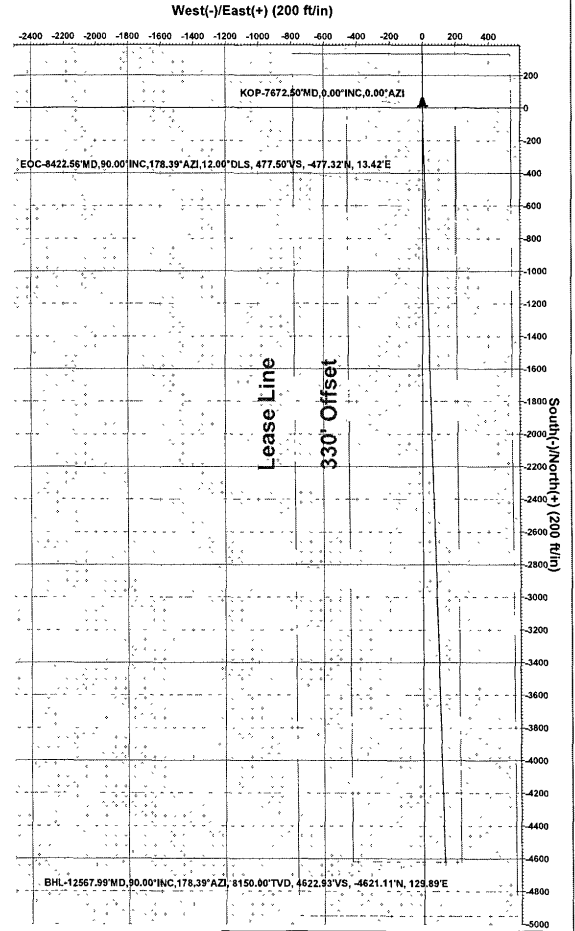
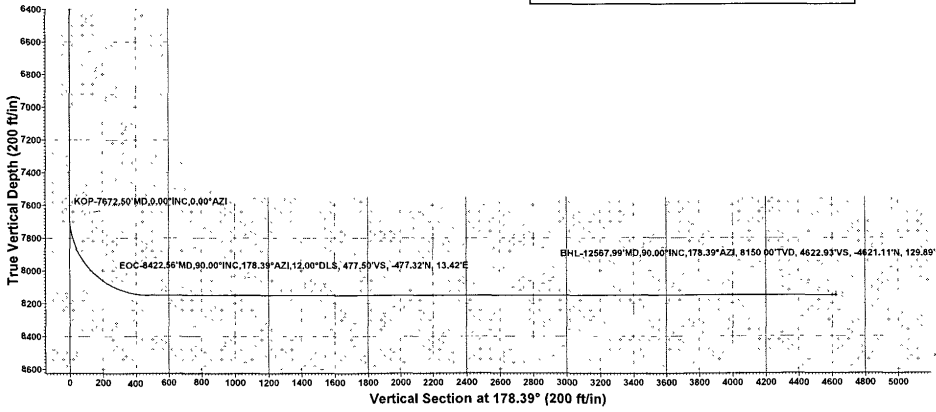
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7672.50	0.00	0.00	7672.50	0.00	0.00	0.00	0.00	0.00	
3	8422.56	90.00	178.39	8150.00	-477.31	13.42	12.00	176.39	477.50	
4	12567.99	90.00	178.39	8150.00	-4621.11	129.89	0.00	0.00	4622.93	PBHL(NH#2H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
PBHL(NH#2H)00		-4621.10	130.20	617885.100	659380.900	Point

PROJECT DETAILS: Eddy County
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid



Plan #1 (#2H/OH)
 Created By: Nate Bingham Date: 11 26, June 24 2009
 Checked: _____ Date: _____