



30-015-37537

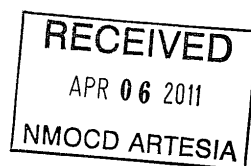
Yates Petroleum Corp.

Eddy County
Maduro "BOZ" State Com
#1H
OH

Survey: MWD #1

Pathfinder X & Y Survey Report

21 February, 2011



PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Survey Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak #10 @ 3196.00usft (18' KB Correction)
Site:	Maduro "BOZ" State Com	MD Reference:	Silver Oak #10 @ 3196.00usft (18' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Maduro "BOZ" State Com		
Site Position:		Northing:	414,399.840 usft
From:	Map	Easting:	591,670.391 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 20.974 N
		Longitude:	104° 10' 14.581 W
		Grid Convergence:	0.09 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	414,399.840 usft	Latitude:	32° 8' 20.974 N
	+E/-W	0.00 usft	Easting:	591,670.391 usft	Longitude:	104° 10' 14.581 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,178.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/09/10	7.91	60.01	48,550

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 (°)
	0.00	0.00	0.00	270.31

Survey Program	Date	02/21/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
400.00	12,550.00	MWD #1 (OH)	MWD	MWD - Standard



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Project: Eddy County
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Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
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MD Reference: Silver Oak #10 @ 3196.00usft (18' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
400.00	0.75	82.19	399.95	2,796.05	-0.97	5.50	-5.51	0.00	414,398.87	591,675.89	
427.00	0.44	68.79	426.95	2,769.05	-0.91	5.77	-5.78	1.25	414,398.93	591,676.16	
610.00	0.97	353.88	609.94	2,586.06	0.89	6.26	-6.26	0.52	414,400.73	591,676.65	
792.00	1.67	339.80	791.89	2,404.11	4.91	5.18	-5.16	0.42	414,404.75	591,675.57	
982.00	1.41	305.40	981.82	2,214.18	8.86	2.32	-2.27	0.50	414,408.70	591,672.71	
1,172.00	1.49	300.42	1,171.76	2,024.24	11.46	-1.72	1.78	0.08	414,411.30	591,668.68	
1,362.00	1.06	284.20	1,361.72	1,834.28	13.15	-5.55	5.62	0.29	414,412.99	591,664.84	
1,552.00	1.32	264.65	1,551.68	1,644.32	13.37	-9.43	9.50	0.25	414,413.21	591,660.96	
1,742.00	1.23	107.50	1,741.66	1,454.34	12.56	-9.67	9.73	1.32	414,412.40	591,660.72	
1,932.00	3.34	109.66	1,931.50	1,264.50	10.08	-2.51	2.56	1.11	414,409.92	591,667.88	
2,122.00	3.17	89.98	2,121.20	1,074.80	8.22	7.96	-7.91	0.59	414,408.06	591,678.35	
2,185.00	2.11	90.81	2,184.13	1,011.87	8.20	10.86	-10.81	1.68	414,408.04	591,681.25	
2,262.00	1.58	93.80	2,261.09	934.91	8.11	13.34	-13.29	0.70	414,407.95	591,683.73	
2,452.00	1.58	93.27	2,451.02	744.98	7.79	18.56	-18.52	0.01	414,407.63	591,688.96	
2,642.00	0.70	126.16	2,640.98	555.02	6.96	22.12	-22.08	0.56	414,406.80	591,692.51	
2,832.00	0.62	148.35	2,830.97	365.03	5.40	23.59	-23.56	0.14	414,405.24	591,693.98	
3,021.00	0.44	183.22	3,019.96	176.04	3.80	24.09	-24.07	0.19	414,403.64	591,694.48	
3,211.00	0.53	186.21	3,209.95	-13.95	2.20	23.95	-23.94	0.05	414,402.04	591,694.34	
3,402.00	0.79	171.65	3,400.94	-204.94	0.02	24.05	-24.05	0.16	414,399.86	591,694.44	
3,592.00	0.53	181.91	3,590.93	-394.93	-2.16	24.21	-24.22	0.15	414,397.68	591,694.60	
3,782.00	0.79	164.01	3,780.91	-584.91	-4.29	24.54	-24.56	0.17	414,395.55	591,694.93	
3,972.00	0.88	181.84	3,970.89	-774.89	-7.01	24.86	-24.89	0.14	414,392.83	591,695.25	
4,162.00	0.88	176.33	4,160.87	-964.87	-9.93	24.90	-24.96	0.04	414,389.91	591,695.29	
4,352.00	1.14	169.98	4,350.84	-1,154.84	-13.24	25.32	-25.40	0.15	414,386.60	591,695.71	
4,542.00	0.53	157.50	4,540.82	-1,344.82	-15.92	25.99	-26.07	0.33	414,383.92	591,696.38	
4,733.00	0.35	146.70	4,731.81	-1,535.81	-17.22	26.65	-26.74	0.10	414,382.62	591,697.04	
4,923.00	0.44	115.48	4,921.81	-1,725.81	-18.02	27.62	-27.72	0.12	414,381.82	591,698.02	



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Site: Maduro "BOZ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
Silver Oak #10 @ 3196.00usft (18' KB Correction)
Silver Oak #10 @ 3196.00usft (18' KB Correction)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
5,113.00	0.44	136.04	5,111.80	-1,915.80	-18.86	28.79	-28.89	0.08	414,380.98	591,699.18	
5,303.00	0.44	125.90	5,301.80	-2,105.80	-19.81	29.89	-29.99	0.04	414,380.03	591,700.28	
5,493.00	0.62	220.47	5,491.79	-2,295.79	-21.02	29.81	-29.92	0.41	414,378.82	591,700.20	
5,684.00	0.88	243.88	5,682.78	-2,486.78	-22.45	27.82	-27.94	0.21	414,377.39	591,698.21	
5,874.00	0.88	262.78	5,872.76	-2,676.76	-23.28	25.07	-25.19	0.15	414,376.56	591,695.46	
6,064.00	1.23	218.75	6,062.73	-2,866.73	-25.05	22.34	-22.48	0.45	414,374.79	591,692.73	
6,255.00	1.67	230.35	6,253.66	-3,057.66	-28.43	18.92	-19.07	0.28	414,371.41	591,689.31	
6,440.00	1.76	245.20	6,438.58	-3,242.58	-31.34	14.26	-14.43	0.24	414,368.50	591,684.65	
6,627.00	1.58	261.01	6,625.50	-3,429.50	-32.95	9.11	-9.29	0.26	414,366.89	591,679.50	
6,814.00	1.49	270.21	6,812.44	-3,616.44	-33.34	4.13	-4.31	0.14	414,366.50	591,674.52	
7,001.00	1.58	289.57	6,999.37	-3,803.37	-32.47	-0.73	0.55	0.28	414,367.37	591,669.66	
7,187.00	1.14	290.11	7,185.32	-3,989.32	-30.97	-4.88	4.72	0.24	414,368.87	591,665.51	
7,374.00	0.88	337.29	7,372.29	-4,176.29	-29.01	-7.19	7.03	0.45	414,370.83	591,663.21	
7,559.00	0.97	303.71	7,557.27	-4,361.27	-26.83	-9.04	8.89	0.29	414,373.01	591,661.35	
7,611.00	0.88	303.80	7,609.26	-4,413.26	-26.36	-9.73	9.59	0.17	414,373.48	591,660.66	
7,642.00	0.79	303.65	7,640.26	-4,444.26	-26.11	-10.11	9.97	0.29	414,373.73	591,660.28	
KOP-7642.00°MD,0.79°INC,303.65°AZI,7640.26°TVD											
7,673.00	1.76	288.06	7,671.25	-4,475.25	-25.84	-10.74	10.60	3.29	414,374.00	591,659.65	
7,704.00	4.40	282.12	7,702.20	-4,506.20	-25.45	-12.36	12.22	8.57	414,374.39	591,658.04	
7,735.00	7.74	281.81	7,733.03	-4,537.03	-24.77	-15.56	15.43	10.77	414,375.07	591,654.83	
7,765.00	11.43	280.79	7,762.60	-4,566.60	-23.80	-20.46	20.33	12.31	414,376.04	591,649.93	
7,797.00	15.12	281.02	7,793.74	-4,597.74	-22.41	-27.68	27.55	11.53	414,377.43	591,642.72	
7,828.00	18.91	281.26	7,823.38	-4,627.38	-20.65	-36.57	36.46	12.23	414,379.19	591,633.82	
7,859.00	22.34	280.58	7,852.39	-4,656.39	-18.59	-47.30	47.19	11.09	414,381.25	591,623.10	
7,890.00	25.76	280.09	7,880.69	-4,684.69	-16.33	-59.72	59.63	11.05	414,383.51	591,610.67	
7,921.00	29.19	280.32	7,908.19	-4,712.19	-13.79	-73.80	73.72	11.07	414,386.05	591,596.60	
7,951.00	32.71	280.92	7,933.92	-4,737.92	-10.95	-88.96	88.90	11.78	414,388.89	591,581.43	



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Design: OH

Local Co-ordinate Reference:
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Silver Oak #10 @ 3196.00usft (18' KB Correction)
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Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
7,983.00	36.40	281.32	7,960.27	-4,764.27	-7.44	-106.76	106.72	11.55	414,392.40	591,563.63	
8,014.00	39.83	280.66	7,984.65	-4,788.65	-3.80	-125.54	125.52	11.14	414,396.04	591,544.85	
8,045.00	43.44	279.47	8,007.82	-4,811.82	-0.21	-145.82	145.82	11.92	414,399.63	591,524.57	
8,076.00	47.13	277.93	8,029.63	-4,833.63	3.11	-167.59	167.61	12.41	414,402.95	591,502.80	
8,107.00	50.91	276.73	8,049.95	-4,853.95	6.09	-190.80	190.83	12.54	414,405.93	591,479.59	
8,138.00	54.69	275.64	8,068.69	-4,872.69	8.75	-215.34	215.39	12.51	414,408.59	591,455.05	
8,169.00	58.48	274.63	8,085.76	-4,889.76	11.06	-241.11	241.17	12.52	414,410.90	591,429.28	
8,200.00	62.34	274.05	8,101.07	-4,905.07	13.09	-267.99	268.05	12.56	414,412.93	591,402.40	
8,231.00	66.30	272.71	8,114.50	-4,918.50	14.73	-295.87	295.94	13.35	414,414.57	591,374.52	
8,263.00	70.35	271.25	8,126.32	-4,930.32	15.76	-325.58	325.66	13.35	414,415.60	591,344.81	
8,294.00	74.57	270.02	8,135.66	-4,939.66	16.08	-355.13	355.21	14.13	414,415.92	591,315.26	
8,325.00	77.12	268.92	8,143.24	-4,947.24	15.80	-385.19	385.27	8.92	414,415.64	591,285.20	
8,357.00	79.23	268.08	8,149.79	-4,953.79	14.98	-416.49	416.57	7.08	414,414.82	591,253.90	
8,388.00	81.07	268.03	8,155.10	-4,959.10	13.94	-447.02	447.09	5.94	414,413.78	591,223.37	
8,419.00	84.94	267.92	8,158.87	-4,962.87	12.86	-477.76	477.83	12.49	414,412.70	591,192.63	
8,450.00	88.90	268.19	8,160.54	-4,964.54	11.81	-508.69	508.75	12.80	414,411.65	591,161.70	
8,472.00	90.33	266.99	8,160.68	-4,964.68	10.88	-530.67	530.72	8.49	414,410.72	591,139.72	
EOC-8472.00°MD,90.33°INC,266.99°AZI,8160.68°TVD											
8,503.00	91.19	267.20	8,160.27	-4,964.27	9.31	-561.63	561.67	2.86	414,409.15	591,108.76	
8,534.00	91.98	266.98	8,159.42	-4,963.42	7.74	-592.58	592.61	2.65	414,407.58	591,077.81	
8,565.00	92.95	267.41	8,158.08	-4,962.08	6.22	-623.51	623.54	3.42	414,406.06	591,046.88	
8,659.00	93.21	267.48	8,153.03	-4,957.03	2.04	-717.28	717.28	0.29	414,401.88	590,953.11	
8,752.00	92.15	267.80	8,148.68	-4,952.68	-1.79	-810.10	810.08	1.19	414,398.05	590,860.29	
8,846.00	91.80	267.70	8,145.44	-4,949.44	-5.48	-903.97	903.93	0.39	414,394.36	590,766.42	
8,939.00	91.36	269.10	8,142.88	-4,946.88	-8.07	-996.90	996.84	1.58	414,391.77	590,673.49	
9,033.00	90.92	268.81	8,141.01	-4,945.01	-9.79	-1,090.86	1,090.79	0.56	414,390.05	590,579.53	
9,126.00	90.57	268.79	8,139.80	-4,943.80	-11.73	-1,183.83	1,183.75	0.38	414,388.11	590,486.56	



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9,220.00	90.48	268.50	8,138.94	-4,942.94	-13.96	-1,277.80	1,277.71	0.32	414,385.88	590,392.59	
9,313.00	91.63	269.78	8,137.23	-4,941.23	-15.35	-1,370.77	1,370.67	1.85	414,384.49	590,299.62	
9,407.00	91.80	270.75	8,134.41	-4,938.41	-14.92	-1,464.73	1,464.63	1.05	414,384.92	590,205.66	
9,500.00	91.01	270.69	8,132.13	-4,936.13	-13.75	-1,557.69	1,557.60	0.85	414,386.09	590,112.70	
9,594.00	90.57	270.59	8,130.84	-4,934.84	-12.70	-1,651.68	1,651.59	0.48	414,387.14	590,018.71	
9,688.00	90.13	270.25	8,130.26	-4,934.26	-12.01	-1,745.67	1,745.58	0.59	414,387.83	589,924.72	
9,781.00	89.96	270.77	8,130.19	-4,934.19	-11.18	-1,838.67	1,838.58	0.59	414,388.66	589,831.72	
9,874.00	90.22	271.25	8,130.04	-4,934.04	-9.54	-1,931.66	1,931.58	0.59	414,390.30	589,738.74	
9,967.00	91.19	271.50	8,128.90	-4,932.90	-7.31	-2,024.62	2,024.55	1.08	414,392.53	589,645.77	
10,060.00	91.45	271.67	8,126.76	-4,930.76	-4.74	-2,117.56	2,117.50	0.33	414,395.10	589,552.83	
10,152.00	93.03	271.34	8,123.16	-4,927.16	-2.33	-2,209.46	2,209.41	1.75	414,397.51	589,460.94	
10,246.00	93.12	272.15	8,118.12	-4,922.12	0.53	-2,303.28	2,303.24	0.87	414,400.37	589,367.12	
10,339.00	92.59	272.34	8,113.49	-4,917.49	4.17	-2,396.09	2,396.08	0.61	414,404.01	589,274.30	
10,433.00	91.89	272.67	8,109.81	-4,913.81	8.28	-2,489.93	2,489.93	0.82	414,408.12	589,180.46	
10,522.00	92.51	274.33	8,106.40	-4,910.40	13.71	-2,578.69	2,578.73	1.99	414,413.55	589,091.70	
10,613.00	93.47	273.70	8,101.65	-4,905.65	20.07	-2,669.34	2,669.41	1.26	414,419.91	589,001.05	
10,707.00	91.63	271.95	8,097.47	-4,901.47	24.70	-2,763.13	2,763.22	2.70	414,424.54	588,907.26	
10,799.00	91.01	271.92	8,095.35	-4,899.35	27.80	-2,855.05	2,855.16	0.67	414,427.64	588,815.34	
10,892.00	91.19	271.97	8,093.56	-4,897.56	30.96	-2,947.98	2,948.10	0.20	414,430.80	588,722.41	
10,985.00	91.71	271.58	8,091.21	-4,895.21	33.84	-3,040.91	3,041.04	0.70	414,433.68	588,629.49	
11,078.00	91.36	270.43	8,088.72	-4,892.72	35.47	-3,133.86	3,134.00	1.29	414,435.31	588,536.54	
11,171.00	91.19	269.91	8,086.65	-4,890.65	35.74	-3,226.83	3,226.98	0.59	414,435.58	588,443.56	
11,265.00	91.89	269.31	8,084.12	-4,888.12	35.10	-3,320.79	3,320.94	0.98	414,434.94	588,349.60	
11,358.00	91.63	269.42	8,081.27	-4,885.27	34.07	-3,413.75	3,413.88	0.30	414,433.91	588,256.65	
11,451.00	91.54	268.96	8,078.69	-4,882.69	32.76	-3,506.70	3,506.83	0.50	414,432.60	588,163.69	
11,544.00	92.95	268.72	8,075.05	-4,879.05	30.88	-3,599.61	3,599.72	1.54	414,430.72	588,070.78	
11,638.00	92.33	269.39	8,070.72	-4,874.72	29.33	-3,693.49	3,693.60	0.97	414,429.17	587,976.90	



Pathfinder
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak #10 @ 3196.00usft (18' KB Correction)
Site:	Maduro "BOZ" State Com	MD Reference:	Silver Oak #10 @ 3196.00usft (18' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc. (°)	Azi. (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
11,732.00	91.89	268.97	8,067.26	-4,871.26	27.98	-3,787.42	3,787.52	0.65	414,427.82	587,882.97
11,826.00	91.63	269.25	8,064.37	-4,868.37	26.53	-3,881.36	3,881.45	0.41	414,426.37	587,789.03
11,919.00	90.57	269.01	8,062.59	-4,866.59	25.11	-3,974.33	3,974.41	1.17	414,424.95	587,696.06
12,013.00	91.98	269.98	8,060.50	-4,864.50	24.29	-4,068.30	4,068.38	1.82	414,424.13	587,602.09
12,107.00	92.15	270.51	8,057.11	-4,861.11	24.69	-4,162.24	4,162.31	0.59	414,424.53	587,508.15
12,200.00	93.47	269.72	8,052.55	-4,856.55	24.87	-4,255.13	4,255.20	1.65	414,424.71	587,415.26
12,293.00	92.68	270.57	8,047.56	-4,851.56	25.11	-4,347.99	4,348.06	1.25	414,424.95	587,322.40
12,387.00	92.15	271.22	8,043.60	-4,847.60	26.58	-4,441.90	4,441.97	0.89	414,426.42	587,228.50
12,470.00	92.07	271.50	8,040.54	-4,844.54	28.54	-4,524.82	4,524.90	0.35	414,428.38	587,145.58
12,550.00	92.07	271.50	8,037.65	-4,841.65	30.64	-4,604.74	4,604.83	0.00	414,430.48	587,065.65
BHL-12550.00°MD,92.07°INC,271.50°AZI, 8037.65°TVD, 4604.83°VS, 30.64°N, -4604.74°E										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,642.00	7,640.26	-26.11	-10.11	KOP-7642.00°MD,0.79°INC,303.65°AZI,7640.26°TVD
8,472.00	8,160.68	10.88	-530.67	EOC-8472.00°MD,90.33°INC,266.99°AZI,8160.68°TVD
12,550.00	8,037.65	30.64	-4,604.74	BHL-12550.00°MD,92.07°INC,271.50°AZI, 8037.65°TVD, 4604.83°VS, 30.64°N, -

Checked By: _____	Approved By: _____	Date: _____
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True North: -0.09° Azimuths to Grid North
Magnetic North: 7.83°

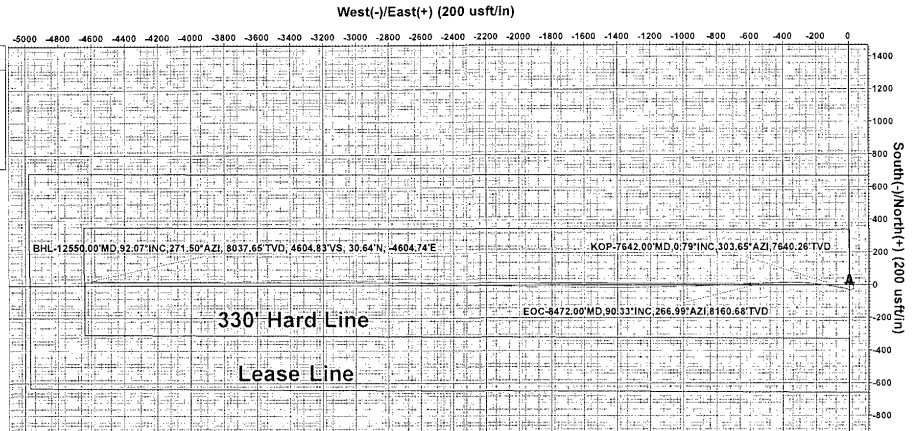
Magnetic Field
Strength: 48550.3nT
Dip Angle: 60.01°
Date: 12/09/2010
Model: IGRF2010

PATHFINDER
A Schlumberger Company

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSecl	Target
8430.00	86.35	268.02	8159.71	12.47	-488.72	0.00	0.00	488.78	
8558.35	82.50	270.18	8161.00	10.45	-616.98	5.08	19.39	617.03	
9089.35	82.50	270.18	8137.84	12.12	-1147.48	0.00	0.00	1147.52	
9214.35	90.00	270.18	8135.11	12.51	-1272.44	2.00	180.00	1272.48	
12584.77	90.00	270.18	8135.11	23.10	-4642.84	0.00	0.00	4642.90	PBHL(MSC#1)

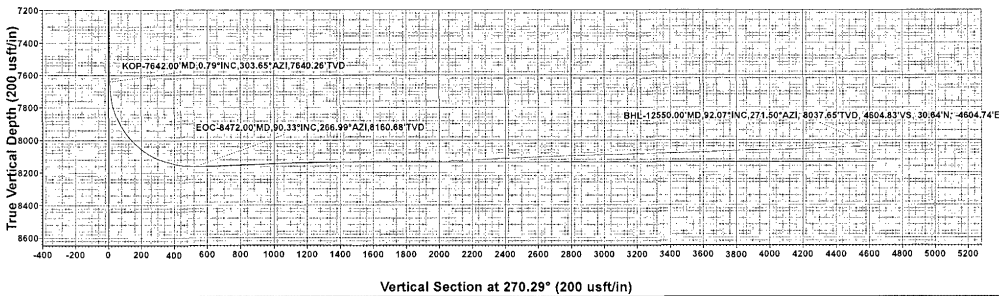
Project: Eddy County
Site: Maduro "BOZ" State Com
Well: #1H
Wellbore: OH
Plan: Plan #2 (#1H/OH)



WELL DETAILS: #1H

Ground Elevation: 3179.00
RKB Elevation: Silver Oak #10 @ 3196.00usft (18' KB Correction)
Rig Name: 18' KB Correction

+N/-S	+E/-W	Nothing	Easting	Latitude	Longitude	Spot
0.00	0.00		414399.840	591670.391	32° 8' 20.974 N 104° 10' 14.581 W	



Vertical Section at 270.29° (200 usft/in)

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Plan: Plan #2 (#1H/OH)

Created By: Nate Bingham Date: 6:52, February 21 2011

Checked: _____ Date: _____