

30-015-38575

Yates Petroleum Corp.

Eddy County (NAD 83)
Anthill "AAK" State Com
#2H
OH

Design: OH

PathfinderX & Y Report

25 May, 2012

PATHFINDER[®]
A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well: #2H
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3321.0usft (Silver Oak 10)
Site:	Anthill "AAK" State Com	MD Reference:	KB = 18 @ 3321.0usft (Silver Oak 10)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1 Single User Db

Project:	Eddy County (NAD 83)
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Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Anthill "AAK" State Com
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Site Position:		Northing:	582,373.960 usft	Latitude:	32.601
From:	Map	Easting:	632,245.160 usft	Longitude:	-104.038
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well:	#2H
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Well Position	+N/-S	0.0 usft	Northing:	582,373.960 usft	Latitude:	32.601
	+E/-W	0.0 usft	Easting:	632,245.160 usft	Longitude:	-104.038
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,303.0 usft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/22/2012	7.73	60.46	48,755

Design:	OH
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	270.02



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date:	5/25/2012	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200 0	7,394 0	Gyro #1 (OH)	CTG-SR-SS	Continuous gyro - surface ref s/s
7,485 0	12,600.0	MWD #1 (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0 0	0.00	0 00	0.0	-3,321.0	0.0	0.0	0.0	0 00	582,373.96	632,245.16
200 0	0.75	183 96	200.0	-3,121 0	-1.3	-0 1	0 1	0.37	582,372 65	632,245.07
400 0	4.00	211.86	399 8	-2,921.2	-8.5	-3 9	3 9	1 68	582,365.42	632,241 30
600.0	3 50	210.86	599 4	-2,721.6	-19.7	-10 7	10 7	0.25	582,354 26	632,234.48
800 0	0.75	78 90	799.3	-2,521 7	-24 7	-12.5	12 5	2.02	582,349 27	632,232.63
1,000 0	1.75	59 87	999.2	-2,321 8	-22 9	-8 6	8 6	0.53	582,351 05	632,236 56
1,200 0	1 75	96 86	1,199.1	-2,121 9	-21 7	-2.9	2 9	0 56	582,352.22	632,242.23
1,400.0	0.50	359 83	1,399 1	-1,921.9	-21 2	0 1	-0 1	0.94	582,352.73	632,245.26
1,600.0	1 00	279.82	1,599.1	-1,721 9	-20.1	-1.6	1 6	0 52	582,353.90	632,243 54
1,800 0	0.75	267 80	1,799 1	-1,521.9	-19 8	-4.6	4 6	0.15	582,354 14	632,240 51
2,000 0	1 00	313 77	1,999.0	-1,322 0	-18 7	-7 2	7 2	0 36	582,355.30	632,237.95
2,200.0	1 25	323.76	2,199 0	-1,122 0	-15 7	-9.8	9 8	0.16	582,358 27	632,235 40
2,400.0	1.50	328 74	2,398.9	-922.1	-11 7	-12 4	12 4	0 14	582,362 27	632,232 75
2,600 0	1.25	294 72	2,598 9	-722.1	-8.5	-15.8	15 7	0.42	582,365 42	632,229.41
2,800.0	1.00	294.69	2,798.8	-522 2	-6 9	-19.3	19 3	0 13	582,367.06	632,225.84
3,000 0	0.50	302 66	2,998 8	-322.2	-5.7	-21.6	21 6	0 25	582,368.26	632,223 52
3,200 0	0.75	268 63	3,198 8	-122.2	-5 3	-23 7	23 7	0 22	582,368 70	632,221 48
3,400 0	0.75	248 60	3,398 8	77 8	-5 8	-26.2	26 2	0 13	582,368.19	632,218 95
3,600.0	0.75	278.44	3,598.8	277 8	-6.1	-28 7	28 7	0 19	582,367.90	632,216.44
3,800 0	0.50	288.41	3,798 8	477.8	-5 6	-30 8	30 8	0.14	582,368 37	632,214.31
4,000 0	0.50	279 38	3,998 8	677.8	-5 2	-32 5	32 5	0 04	582,368.79	632,212 62



Pathfinder
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Site:	Anthill "AAK" State Com	MD Reference:	KB = 18 @ 3321.0usft (Silver Oak 10)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V-Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
4,200.0	0.50	38.36	4,198.8	877.8	-4.3	-32.9	32.9	0.43	582,369.61	632,212.30	
4,400.0	0.25	357.33	4,398.8	1,077.8	-3.2	-32.3	32.3	0.18	582,370.73	632,212.83	
4,600.0	0.50	319.30	4,598.7	1,277.7	-2.1	-32.9	32.9	0.17	582,371.83	632,212.24	
4,800.0	0.50	359.29	4,798.7	1,477.7	-0.6	-33.5	33.5	0.17	582,373.37	632,211.66	
5,000.0	0.50	319.27	4,998.7	1,677.7	0.9	-34.1	34.1	0.17	582,374.90	632,211.08	
5,200.0	0.50	343.24	5,198.7	1,877.7	2.4	-34.9	34.9	0.10	582,376.40	632,210.26	
5,400.0	0.50	318.22	5,398.7	2,077.7	3.9	-35.7	35.7	0.11	582,377.88	632,209.42	
5,600.0	0.25	354.19	5,598.7	2,277.7	5.0	-36.4	36.4	0.17	582,378.97	632,208.80	
5,800.0	0.25	347.98	5,798.7	2,477.7	5.9	-36.5	36.5	0.01	582,379.83	632,208.66	
6,000.0	0.50	279.75	5,998.7	2,677.7	6.4	-37.4	37.5	0.23	582,380.40	632,207.71	
6,200.0	0.50	275.53	6,198.7	2,877.7	6.7	-39.2	39.2	0.02	582,380.63	632,205.98	
6,400.0	0.50	274.30	6,398.7	3,077.7	6.8	-40.9	40.9	0.01	582,380.78	632,204.24	
6,600.0	0.75	268.07	6,598.7	3,277.7	6.8	-43.1	43.1	0.13	582,380.81	632,202.06	
6,800.0	1.25	241.84	6,798.7	3,477.7	5.8	-46.3	46.3	0.33	582,379.73	632,198.83	
7,000.0	1.25	216.61	6,998.6	3,677.6	3.0	-49.6	49.6	0.27	582,376.95	632,195.61	
7,200.0	1.25	217.38	7,198.6	3,877.6	-0.5	-52.2	52.2	0.01	582,373.47	632,192.98	
7,394.0	1.00	240.93	7,392.5	4,071.5	-3.0	-54.9	54.9	0.27	582,370.96	632,190.22	
7,485.0	0.88	272.32	7,483.5	4,162.5	-3.4	-56.3	56.3	0.57	582,370.61	632,188.83	
7,578.0	0.26	235.97	7,576.5	4,255.5	-3.4	-57.2	57.2	0.74	582,370.52	632,187.94	
7,672.0	0.26	226.61	7,670.5	4,349.5	-3.7	-57.6	57.6	0.05	582,370.25	632,187.61	
7,735.0	0.35	298.64	7,733.5	4,412.5	-3.7	-57.8	57.8	0.58	582,370.24	632,187.33	
7,766.0	1.23	283.21	7,764.5	4,443.5	-3.6	-58.2	58.2	2.90	582,370.37	632,186.93	
KOP: 7766.0 MD, 7764.5 TVD, -3.6 N, -58.2 E											
7,797.0	3.96	276.43	7,795.5	4,474.5	-3.4	-59.6	59.6	8.85	582,370.56	632,185.54	
7,828.0	6.86	282.55	7,826.3	4,505.3	-2.9	-62.5	62.5	9.53	582,371.08	632,182.67	
7,859.0	9.58	286.99	7,857.0	4,536.0	-1.7	-66.8	66.8	9.00	582,372.24	632,178.39	
7,890.0	12.66	284.24	7,887.4	4,566.4	-0.1	-72.5	72.5	10.08	582,373.83	632,172.63	



Pathfinder
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Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
7,921.0	15.92	281.00	7,917.5	4,596.5	1.5	-80.0	80.0	10.82	582,375.48	632,165.16	
7,952.0	19.26	277.76	7,947.0	4,626.0	3.0	-89.2	89.2	11.22	582,376.98	632,155.92	
7,983.0	22.69	276.11	7,975.9	4,654.9	4.3	-100.3	100.3	11.23	582,378.31	632,144.91	
8,014.0	26.03	274.29	8,004.2	4,683.2	5.5	-113.0	113.0	11.04	582,379.45	632,132.17	
8,045.0	29.46	273.09	8,031.6	4,710.6	6.4	-127.4	127.4	11.21	582,380.37	632,117.78	
8,076.0	32.98	271.76	8,058.1	4,737.1	7.1	-143.4	143.4	11.57	582,381.04	632,101.72	
8,108.0	36.32	269.71	8,084.4	4,763.4	7.3	-161.6	161.6	11.05	582,381.26	632,083.54	
8,139.0	39.83	268.74	8,108.8	4,787.8	7.0	-180.7	180.7	11.49	582,381.00	632,064.42	
8,169.0	43.88	268.01	8,131.2	4,810.2	6.5	-200.7	200.7	13.60	582,380.42	632,044.42	
8,201.0	48.19	267.48	8,153.4	4,832.4	5.6	-223.7	223.8	13.52	582,379.51	632,021.41	
8,232.0	52.58	266.52	8,173.2	4,852.2	4.3	-247.6	247.6	14.36	582,378.26	631,997.57	
8,263.0	57.07	266.25	8,191.0	4,870.0	2.7	-272.9	272.9	14.50	582,376.66	631,972.29	
8,294.0	61.55	266.42	8,206.8	4,885.8	1.0	-299.5	299.5	14.46	582,374.96	631,945.69	
8,326.0	66.13	267.40	8,220.9	4,899.9	-0.5	-328.1	328.1	14.57	582,373.41	631,917.02	
8,353.0	69.47	266.00	8,231.1	4,910.1	-2.0	-353.1	353.1	13.27	582,371.97	631,892.07	
8,384.0	73.51	269.09	8,241.0	4,920.0	-3.2	-382.5	382.5	16.10	582,370.72	631,862.71	
8,415.0	76.15	269.12	8,249.1	4,928.1	-3.7	-412.4	412.4	8.52	582,370.26	631,832.79	
8,446.0	79.67	269.68	8,255.6	4,934.6	-4.0	-442.7	442.7	11.49	582,369.94	631,802.49	
8,477.0	83.54	270.13	8,260.1	4,939.1	-4.1	-473.3	473.3	12.57	582,369.89	631,771.83	
8,509.0	87.49	270.05	8,262.6	4,941.6	-4.0	-505.2	505.2	12.35	582,369.94	631,739.93	
8,539.0	89.08	270.02	8,263.5	4,942.5	-4.0	-535.2	535.2	5.30	582,369.96	631,709.94	
LP: 8539.0 MD: 8263.5 TVD: 4.0 N: 535.2 E:											
8,601.0	88.99	269.94	8,264.5	4,943.5	-4.0	-597.2	597.2	0.19	582,369.94	631,647.95	
8,694.0	89.43	270.87	8,265.8	4,944.8	-3.4	-690.2	690.2	1.11	582,370.59	631,554.96	
8,787.0	90.66	270.26	8,265.8	4,944.8	-2.5	-783.2	783.2	1.48	582,371.51	631,461.97	
8,881.0	91.19	271.01	8,264.2	4,943.2	-1.4	-877.2	877.2	0.98	582,372.55	631,367.99	
8,975.0	92.33	270.98	8,261.3	4,940.3	0.2	-971.1	971.1	1.21	582,374.18	631,274.05	



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Site:	Anthill "AAK" State Com.	MD Reference:	KB = 18 @ 3321.0usft (Silver Oak 10)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (#/100usft)	Northing (usft)	Easting (usft)	
9,068.0	92.42	269.64	8,257.5	4,936.5	0.7	-1,064.0	1,064.0	1.44	582,374.69	631,181.13	
9,161.0	92.68	269.35	8,253.4	4,932.4	-0.1	-1,156.9	1,156.9	0.42	582,373.87	631,088.23	
9,254.0	92.95	269.00	8,248.8	4,927.8	-1.4	-1,249.8	1,249.8	0.47	582,372.53	630,995.35	
9,348.0	91.19	269.67	8,245.4	4,924.4	-2.5	-1,343.7	1,343.7	2.00	582,371.44	630,901.42	
9,442.0	91.36	269.40	8,243.3	4,922.3	-3.3	-1,437.7	1,437.7	0.34	582,370.68	630,807.45	
9,535.0	90.66	270.23	8,241.7	4,920.7	-3.6	-1,530.7	1,530.7	1.17	582,370.38	630,714.47	
9,628.0	90.75	270.42	8,240.5	4,919.5	-3.1	-1,623.7	1,623.7	0.23	582,370.90	630,621.48	
9,722.0	90.84	270.91	8,239.2	4,918.2	-2.0	-1,717.7	1,717.7	0.53	582,371.99	630,527.49	
9,815.0	88.72	270.10	8,239.6	4,918.6	-1.1	-1,810.7	1,810.7	2.44	582,372.81	630,434.50	
9,908.0	89.34	270.88	8,241.1	4,920.1	-0.4	-1,903.6	1,903.6	1.07	582,373.61	630,341.52	
10,001.0	89.34	271.00	8,242.2	4,921.2	1.2	-1,996.6	1,996.6	0.13	582,375.14	630,248.54	
10,094.0	89.78	271.47	8,242.9	4,921.9	3.2	-2,089.6	2,089.6	0.69	582,377.14	630,155.56	
10,187.0	90.04	271.70	8,243.1	4,922.1	5.8	-2,182.6	2,182.6	0.37	582,379.71	630,062.60	
10,281.0	89.78	270.36	8,243.2	4,922.2	7.4	-2,276.5	2,276.5	1.45	582,381.40	629,968.62	
10,375.0	89.96	270.46	8,243.4	4,922.4	8.1	-2,370.5	2,370.5	0.22	582,382.07	629,874.62	
10,469.0	89.78	268.88	8,243.7	4,922.7	7.6	-2,464.5	2,464.5	1.69	582,381.53	629,780.62	
10,563.0	90.04	268.90	8,243.8	4,922.8	5.8	-2,558.5	2,558.5	0.28	582,379.71	629,686.64	
10,657.0	90.48	269.14	8,243.4	4,922.4	4.1	-2,652.5	2,652.5	0.53	582,378.10	629,592.66	
10,749.0	89.87	268.96	8,243.1	4,922.1	2.6	-2,744.5	2,744.5	0.69	582,376.58	629,500.67	
10,843.0	90.31	269.17	8,242.9	4,921.9	1.1	-2,838.5	2,838.5	0.52	582,375.05	629,406.68	
10,938.0	90.92	269.64	8,241.9	4,920.9	0.1	-2,933.5	2,933.5	0.81	582,374.06	629,311.69	
11,029.0	89.52	269.77	8,241.6	4,920.6	-0.4	-3,024.5	3,024.5	1.55	582,373.59	629,220.70	
11,123.0	89.52	270.23	8,242.4	4,921.4	-0.4	-3,118.5	3,118.5	0.49	582,373.59	629,126.70	
11,217.0	89.34	270.27	8,243.3	4,922.3	0.0	-3,212.5	3,212.5	0.20	582,374.00	629,032.71	
11,311.0	88.72	269.57	8,244.9	4,923.9	-0.1	-3,306.4	3,306.4	0.99	582,373.87	628,938.72	
11,404.0	88.90	270.06	8,246.8	4,925.8	-0.4	-3,399.4	3,399.4	0.56	582,373.57	628,845.74	
11,498.0	89.34	270.07	8,248.3	4,927.3	-0.3	-3,493.4	3,493.4	0.47	582,373.68	628,751.75	



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Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
11,591.0	88.02	269.79	8,250.4	4,929.4	-0.4	-3,586.4	3,586.4	1.45	582,373.56	628,658.78	
11,685.0	88.46	269.88	8,253.3	4,932.3	-0.7	-3,680.3	3,680.3	0.48	582,373.29	628,564.83	
11,778.0	88.99	269.86	8,255.4	4,934.4	-0.9	-3,773.3	3,773.3	0.57	582,373.08	628,471.85	
11,872.0	88.55	269.85	8,257.4	4,936.4	-1.1	-3,867.3	3,867.3	0.47	582,372.84	628,377.87	
11,965.0	89.08	269.93	8,259.3	4,938.3	-1.3	-3,960.3	3,960.3	0.58	582,372.66	628,284.89	
12,059.0	89.08	270.50	8,260.8	4,939.8	-0.9	-4,054.3	4,054.3	0.61	582,373.02	628,190.91	
12,151.0	89.52	270.50	8,261.9	4,940.9	-0.1	-4,146.2	4,146.2	0.48	582,373.82	628,098.92	
12,244.0	90.13	270.75	8,262.2	4,941.2	0.9	-4,239.2	4,239.2	0.71	582,374.83	628,005.92	
12,338.0	90.75	270.67	8,261.5	4,940.5	2.0	-4,333.2	4,333.2	0.67	582,376.00	627,911.93	
12,431.0	91.45	270.67	8,259.7	4,938.7	3.1	-4,426.2	4,426.2	0.75	582,377.09	627,818.96	
12,524.0	92.33	270.52	8,256.6	4,935.6	4.1	-4,519.1	4,519.1	0.96	582,378.05	627,726.01	
12,600.0	92.33	270.52	8,253.6	4,932.6	4.8	-4,595.1	4,595.1	0.00	582,378.74	627,650.08	
BHL - 12600.0 'MD, 8253.6 'TVD, 4.8 'N, -4595.1 'E											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,766.0	7,764.5	-3.6	-58.2	KOP - 7766.0 'MD, 7764.5 'TVD, -3.6 'N, -58.2 'E
8,539.0	8,263.5	-4.0	-535.2	LP - 8539.0 'MD, 8263.5 'TVD, -4.0 'N, -535.2 'E
12,600.0	8,253.6	4.8	-4,595.1	BHL - 12600.0 'MD, 8253.6 'TVD, 4.8 'N, -4595.1 'E

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County (NAD 83)
Site: Anthill "AAK" State Com
Well: #2H
Wellbore: OH
Plan: Post Gyro Plan #3

PROJECT DETAILS: Eddy County (NAD 83)
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



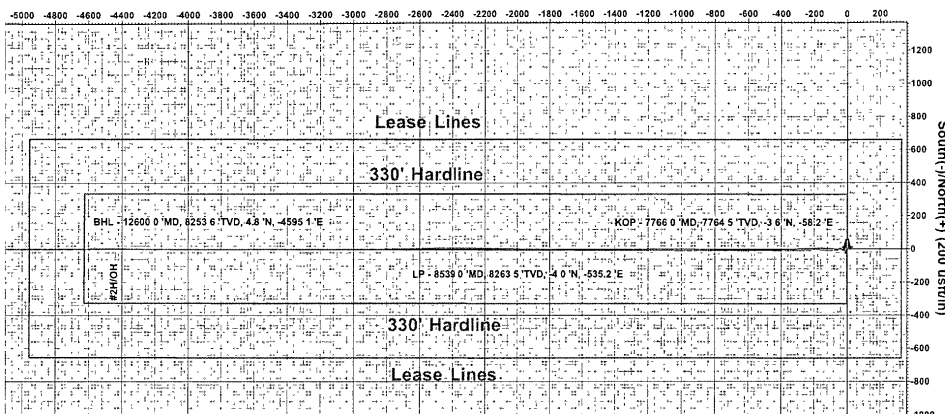
A Schlumberger Company

WELL DETAILS #2H

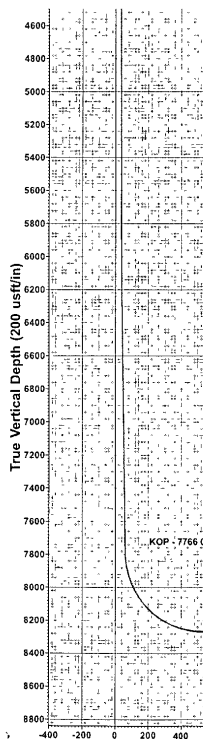
Ground Elevation: 3353.0
RKB Elevation: KB = 18 @ 3321 Gusft (Silver Oak 10)
Rig Name: Silver Oak 10

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	582373.960	632245.160	32.601	-104.058	

West(-)/East(+) (200 usft/in)



EOW



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
7394.0	1.00	240.93	7392.5	-3.0	-54.9	0.00	0.00	54.9	
7801.0	1.00	240.93	7799.5	-6.4	-61.1	0.00	0.00	61.1	
8555.8	91.45	270.15	8269.5	-9.2	-550.7	12.00	29.22	550.7	
12632.5	91.45	270.15	8166.0	1.7	-4626.0	0.00	0.00	4626.0	PBHL(Anthill #2H)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL(Anthill #2H)	8166.0	1.7	-4626.0	582375.690	627619.170	32.601	-104.053



Azimuths to Grid North
True North - 0.16°
Magnetic North 7.57°

Magnetic Field
Strength 48755 Gs/T
Dip Angle 60.46°
Date 3/22/2012
Model IGRF200510

Vertical Section at 270.02° (200 usft/in)

Plan: Post Gyro Plan #3 (#2H/OH)

Created By: Sam Biffle Date: 11/40, May 25 2012
Checked: Date: