



**YATES
PETROLEUM
CORPORATION**

Yates Petroleum Corp.

Lea County
Dean "APQ" Federal
2H
OH

Design: OH

Pathfinder X&Y Report

31 August, 2011

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DEC 22 2011
HOBS OCD

SUR; N-03-26s-34e, 330/S & 1980/W
BHL; C-03-26s-34e, 4910/S & 1926/W
API # 30-025-40089

PATHFINDER[®]
A Schlumberger Company

JAN 12 2012



Company: Yates Petroleum Corp.	Local Co-ordinate Reference: Well: 2H
Project: Lea County	TVD Reference: KB = 21.5' @ 3334.50usft (Patterson 36)
Site: Dean "APQ" FEderal	MD Reference: KB = 21.5' @ 3334.50usft (Patterson 36)
Well: 2H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM:5000:1 Single User Db

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

Site: Dean "APQ" FEderal	Site Position:	Northing: 388,901 030 usft	Latitude: 32° 3' 58.172 N
	From: Map	Easting: 811,899 330 usft	Longitude: 103° 27' 35.664 W
	Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0 46 °

Well: 2H	Well Position	Northing: 388,901.030 usft	Latitude: 32° 3' 58.172 N
	+N/-S 0.00 usft	Easting: 811,899.330 usft	Longitude: 103° 27' 35.664 W
	+E/-W 0.00 usft	Wellhead Elevation: usft	Ground Level: 3,313 00 usft
	Position Uncertainty 0.00 usft		

Wellbore: OH	Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
		IGRF200510	8/6/2011	7.50	60.08	48,557

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	359.49



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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 Program	Date: 8/31/2011			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200 00	9,155 00	Survey #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
9,220.00	14,073 00	MWD Survey (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 00	0.00	0.00	0.00	-3,334.50	0.00	0.00	0 00	0 00	388,901 03	811,899 33
200.00	0.52	335 85	200 00	-3,134.50	0 83	-0.37	0 83	0.26	388,901 86	811,898 96
400.00	0.56	330 85	399 99	-2,934.51	2 51	-1.22	2.52	0.03	388,903.54	811,898 11
600.00	0.80	307.67	599 97	-2,734.53	4.22	-2.80	4.24	0.18	388,905 25	811,896 53
800.00	0.97	292.90	799.95	-2,534.55	5.73	-5.46	5.78	0.14	388,906.76	811,893 87
1,000.00	0.99	276.13	999.92	-2,334 58	6.57	-8 74	6 65	0.14	388,907 60	811,890 59
1,200.00	0.98	271.33	1,199.89	-2,134 61	6.80	-12 17	6.90	0.04	388,907.83	811,887.16
1,400.00	0.63	213.85	1,399.88	-1,934.62	5.92	-14.49	6.05	0.42	388,906.95	811,884.84
1,600 00	0.70	190 56	1,599.86	-1,734 64	3 81	-15.33	3 94	0 14	388,904 84	811,884 00
1,800.00	0.84	170.43	1,799.84	-1,534.66	1 16	-15.31	1 30	0.15	388,902 19	811,884 02
2,000.00	0.66	196.52	1,999.83	-1,334.67	-1.39	-15 39	-1.25	0 19	388,899 64	811,883 94
2,200.00	0.95	171.15	2,199.81	-1,134.69	-4.13	-15 46	-3.99	0.23	388,896.90	811,883.87
2,400.00	1.05	157.50	2,399.78	-934 72	-7.46	-14 51	-7.33	0.13	388,893 57	811,884 82
2,600 00	0.29	20.98	2,599 77	-734.73	-8 68	-13 63	-8.56	0.64	388,892 35	811,885 70
2,800 00	0.72	2 79	2,799.76	-534.74	-6.95	-13 38	-6.84	0.23	388,894 08	811,885 95
3,000 00	0.89	12.75	2,999.74	-334.76	-4.18	-12 98	-4.07	0.11	388,896 85	811,886 35
3,200 00	0.89	36.37	3,199 72	-134.78	-1.42	-11 72	-1.31	0.18	388,899 61	811,887 61
3,400 00	0.49	109.26	3,399 71	65.21	-0.45	-9.99	-0.36	0.44	388,900 58	811,889 34
3,600 00	0.67	77 77	3,599 70	265.20	-0 48	-8.04	-0.41	0.18	388,900 55	811,891 29
3,800 00	0.76	93.61	3,799.68	465 18	-0.32	-5.57	-0.27	0 11	388,900 71	811,893 76
4,000 00	1.09	75.50	3,999.65	665.15	0 07	-2 41	0 09	0 22	388,901 10	811,896.92



Pathfinder
Pathfinder X&Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well 2H
Project:	Lea County	TVD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Site:	Dean "APQ" Federal	MD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM,5000.1 Single User Db.

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V:Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,200.00	0.73	73.50	4,199.63	865.13	0.91	0.66	0.90	0.18	388,901.94	811,899.99
4,400.00	0.91	79.92	4,399.61	1,065.11	1.55	3.44	1.52	0.10	388,902.58	811,902.77
4,600.00	1.20	74.58	4,599.57	1,265.07	2.39	7.03	2.32	0.15	388,903.42	811,906.36
4,800.00	1.07	96.17	4,799.54	1,465.04	2.74	10.90	2.64	0.22	388,903.77	811,910.23
5,000.00	1.00	79.73	4,999.50	1,665.00	2.85	14.48	2.72	0.15	388,903.88	811,913.81
5,200.00	1.12	73.45	5,199.47	1,864.97	3.72	18.07	3.56	0.08	388,904.75	811,917.40
5,400.00	0.70	88.93	5,399.44	2,064.94	4.30	21.16	4.11	0.24	388,905.33	811,920.49
5,600.00	0.59	89.64	5,599.43	2,264.93	4.33	23.41	4.12	0.06	388,905.36	811,922.74
5,800.00	0.54	110.48	5,799.42	2,464.92	4.01	25.33	3.78	0.11	388,905.04	811,924.66
6,000.00	0.56	119.00	5,999.41	2,664.91	3.20	27.06	2.96	0.04	388,904.23	811,926.39
6,200.00	0.53	166.65	6,199.40	2,864.90	1.83	28.13	1.58	0.22	388,902.86	811,927.46
6,400.00	0.45	184.82	6,399.40	3,064.90	0.15	28.28	-0.11	0.09	388,901.18	811,927.61
6,600.00	0.36	137.75	6,599.39	3,264.89	-1.10	28.64	-1.36	0.17	388,899.93	811,927.97
6,800.00	0.29	137.73	6,799.39	3,464.89	-1.94	29.40	-2.20	0.04	388,899.09	811,928.73
7,000.00	0.22	101.49	6,999.39	3,664.89	-2.39	30.12	-2.66	0.09	388,898.64	811,929.45
7,200.00	0.37	114.87	7,199.38	3,864.88	-2.74	31.08	-3.02	0.08	388,898.29	811,930.41
7,400.00	0.54	97.22	7,399.38	4,064.88	-3.13	32.60	-3.42	0.11	388,897.90	811,931.93
7,600.00	0.84	118.52	7,599.36	4,264.86	-3.95	34.82	-4.26	0.19	388,897.08	811,934.15
7,800.00	0.76	161.44	7,799.35	4,464.85	-5.91	36.53	-6.23	0.30	388,895.12	811,935.86
8,000.00	0.72	165.53	7,999.33	4,664.83	-8.38	37.27	-8.71	0.03	388,892.65	811,936.60
8,200.00	0.61	163.71	8,199.32	4,864.82	-10.62	37.88	-10.96	0.06	388,890.41	811,937.21
8,400.00	0.41	153.60	8,399.31	5,064.81	-12.28	38.50	-12.63	0.11	388,888.75	811,937.83
8,600.00	0.52	85.45	8,599.30	5,264.80	-12.85	39.72	-13.20	0.26	388,888.18	811,939.05
8,800.00	0.67	117.05	8,799.29	5,464.79	-13.31	41.67	-13.68	0.18	388,887.72	811,941.00
9,000.00	0.94	107.78	8,999.27	5,664.77	-14.34	44.27	-14.74	0.15	388,886.69	811,943.60
9,155.00	0.79	122.99	9,154.26	5,819.76	-15.31	46.38	-15.73	0.18	388,885.72	811,945.71



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well 2H
Project:	Lea County	TVD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Site:	Dean "APO" Federal	MD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM:5000:1;Single User Db

MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,220.00	2.37	10.14	9,219.24	5,884.74	-14.24	46.99	-14.65	4.27	388,886.79	811,946.32
KOP - 9220.00'MD, 9219.24'TVD, -14.24'N, 46.99'E										
9,252.00	6.42	1.64	9,251.14	5,916.64	-11.79	47.16	-12.21	12.78	388,889.24	811,946.49
9,283.00	10.73	0.22	9,281.78	5,947.28	-7.17	47.22	-7.59	13.92	388,893.86	811,946.55
9,315.00	15.30	359.06	9,312.95	5,978.45	0.03	47.16	-0.39	14.30	388,901.06	811,946.49
9,347.00	20.14	358.48	9,343.43	6,008.93	9.76	46.94	9.35	15.13	388,910.79	811,946.27
9,378.00	23.74	358.42	9,372.18	6,037.68	21.34	46.63	20.92	11.61	388,922.37	811,945.96
9,410.00	27.52	358.45	9,401.02	6,066.52	35.17	46.25	34.76	11.81	388,936.20	811,945.58
9,442.00	31.13	358.72	9,428.92	6,094.42	50.84	45.87	50.43	11.29	388,951.87	811,945.20
9,473.00	34.47	358.76	9,454.97	6,120.47	67.63	45.50	67.22	10.77	388,968.66	811,944.83
9,505.00	37.90	358.81	9,480.79	6,146.29	86.51	45.10	86.11	10.72	388,987.54	811,944.43
9,537.00	40.98	358.70	9,505.50	6,171.00	106.83	44.66	106.43	9.63	389,007.86	811,943.99
9,568.00	43.18	358.98	9,528.51	6,194.01	127.60	44.24	127.20	7.12	389,028.63	811,943.57
9,600.00	46.17	359.05	9,551.26	6,216.76	150.10	43.85	149.70	9.35	389,051.13	811,943.18
9,631.00	49.33	359.00	9,572.11	6,237.61	173.04	43.46	172.64	10.19	389,074.07	811,942.79
9,663.00	51.97	359.26	9,592.39	6,257.89	197.78	43.09	197.39	8.27	389,098.81	811,942.42
9,695.00	54.61	359.66	9,611.52	6,277.02	223.43	42.85	223.04	8.31	389,124.46	811,942.18
9,726.00	58.21	359.84	9,628.67	6,294.17	249.25	42.73	248.86	11.62	389,150.28	811,942.06
9,758.00	63.40	0.00	9,644.27	6,309.77	277.17	42.70	276.78	16.22	389,178.20	811,942.03
9,789.00	67.88	359.87	9,657.05	6,322.55	305.40	42.66	305.01	14.46	389,206.43	811,941.99
9,821.00	70.79	359.82	9,668.35	6,333.85	335.34	42.58	334.95	9.09	389,236.37	811,941.91
9,852.00	73.78	359.95	9,677.78	6,343.28	364.87	42.52	364.48	9.65	389,265.90	811,941.85
9,890.00	77.65	359.78	9,687.15	6,352.65	401.69	42.44	401.29	10.19	389,302.72	811,941.77
9,921.00	80.72	359.82	9,692.97	6,358.47	432.13	42.33	431.74	9.90	389,333.16	811,941.66
9,952.00	84.50	359.86	9,696.96	6,362.46	462.87	42.24	462.47	12.19	389,363.90	811,941.57
9,984.00	86.09	359.99	9,699.58	6,365.08	494.76	42.20	494.36	4.99	389,395.79	811,941.53
10,015.00	86.79	359.92	9,701.51	6,367.01	525.70	42.18	525.30	2.27	389,426.73	811,941.51



Pathfinder
Pathfinder X&Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well 2H
Project:	Lea County	TVD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Site:	Dean "APQ" Federal	MD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Well:	2H	North Reference:	Grd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1, Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,047.00	87.67	359.98	9,703.05	6,368.55	557.66	42.15	557.26	2.76	389,458.69	811,941.48
10,078.00	88.29	0.02	9,704.14	6,369.64	588.64	42.15	588.24	2.00	389,489.67	811,941.48
LP - 10078.00' MD, 9704.14' TVD, 588.64' N, 42.15' E										
10,141.00	88.11	0.36	9,706.12	6,371.62	651.61	42.36	651.21	0.61	389,552.64	811,941.69
10,204.00	88.90	0.14	9,707.77	6,373.27	714.59	42.63	714.18	1.30	389,615.62	811,941.96
10,299.00	89.08	1.09	9,709.44	6,374.94	809.57	43.65	809.15	1.02	389,710.60	811,942.98
10,362.00	88.11	1.52	9,710.99	6,376.49	872.53	45.09	872.09	1.68	389,773.56	811,944.42
10,424.00	89.52	1.54	9,712.27	6,377.77	934.49	46.74	934.04	2.27	389,835.52	811,946.07
10,519.00	89.69	0.71	9,712.92	6,378.42	1,029.47	48.61	1,029.00	0.89	389,930.50	811,947.94
10,613.00	88.72	359.73	9,714.23	6,379.73	1,123.46	48.97	1,122.98	1.47	390,024.49	811,948.30
10,710.00	87.05	358.95	9,717.81	6,383.31	1,220.38	47.85	1,219.91	1.90	390,121.41	811,947.18
10,803.00	87.93	359.21	9,721.88	6,387.38	1,313.28	46.36	1,312.82	0.99	390,214.31	811,945.69
10,897.00	87.49	357.37	9,725.64	6,391.14	1,407.16	43.56	1,406.72	2.01	390,308.19	811,942.89
10,991.00	87.76	356.27	9,729.53	6,395.03	1,500.93	38.35	1,500.53	1.20	390,401.96	811,937.68
11,085.00	87.14	357.24	9,733.71	6,399.21	1,594.69	33.03	1,594.33	1.22	390,495.72	811,932.36
11,179.00	87.49	357.33	9,738.12	6,403.62	1,688.48	28.58	1,688.16	0.38	390,589.51	811,927.91
11,275.00	87.58	357.53	9,742.25	6,407.75	1,784.29	24.28	1,784.01	0.23	390,685.32	811,923.61
11,369.00	87.85	357.95	9,745.99	6,411.49	1,878.15	20.58	1,877.89	0.53	390,779.18	811,919.91
11,464.00	86.79	358.20	9,750.44	6,415.94	1,972.99	17.39	1,972.75	1.15	390,874.02	811,916.72
11,559.00	87.32	358.53	9,755.32	6,420.82	2,067.82	14.69	2,067.61	0.66	390,968.85	811,914.02
11,652.00	88.55	358.63	9,758.67	6,424.17	2,160.73	12.38	2,160.54	1.33	391,061.76	811,911.71
11,747.00	89.87	358.32	9,759.98	6,425.48	2,255.69	9.85	2,255.51	1.43	391,156.72	811,909.18
11,841.00	89.69	358.11	9,760.34	6,425.84	2,349.64	6.93	2,349.49	0.29	391,250.67	811,906.26
11,936.00	90.13	359.09	9,760.49	6,425.99	2,444.61	4.61	2,444.47	1.13	391,345.64	811,903.94
12,030.00	90.13	358.38	9,760.27	6,425.77	2,538.59	2.53	2,538.46	0.76	391,439.62	811,901.86
12,126.00	90.04	358.88	9,760.13	6,425.63	2,634.56	0.23	2,634.45	0.53	391,535.59	811,899.56
12,220.00	89.96	359.01	9,760.13	6,425.63	2,728.54	-1.50	2,728.45	0.16	391,629.57	811,897.83



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Site:	Dean "APQ" Federal	MD Reference:	KB = 21'5" @ 3334.50usft (Patterson 36)
Well:	2H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User.Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
12,315.00	91.19	358.79	9,759.18	6,424.68	2,823.52	-3.32	2,823.44	1.32	391,724.55	811,896.01
12,409.00	90.66	358.52	9,757.66	6,423.16	2,917.48	-5.53	2,917.41	0.63	391,818.51	811,893.80
12,504.00	90.92	358.88	9,756.35	6,421.85	3,012.45	-7.68	3,012.40	0.47	391,913.48	811,891.65
12,599.00	91.10	358.61	9,754.68	6,420.18	3,107.41	-9.76	3,107.37	0.34	392,008.44	811,889.57
12,693.00	91.28	358.26	9,752.72	6,418.22	3,201.35	-12.33	3,201.34	0.42	392,102.38	811,887.00
12,787.00	91.10	358.08	9,750.77	6,416.27	3,295.29	-15.33	3,295.29	0.27	392,196.32	811,884.00
12,882.00	90.75	357.12	9,749.24	6,414.74	3,390.19	-19.31	3,390.23	1.08	392,291.22	811,880.02
13,071.00	91.10	357.24	9,746.19	6,411.69	3,578.93	-28.60	3,579.05	0.20	392,479.96	811,870.73
13,165.00	90.92	358.44	9,744.53	6,410.03	3,672.85	-32.15	3,672.99	1.29	392,573.88	811,867.18
13,260.00	91.19	358.22	9,742.78	6,408.28	3,767.79	-34.91	3,767.96	0.37	392,668.82	811,864.42
13,355.00	90.92	358.38	9,741.03	6,406.53	3,862.74	-37.73	3,862.92	0.33	392,763.77	811,861.60
13,449.00	91.01	358.97	9,739.45	6,404.95	3,956.70	-39.91	3,956.90	0.63	392,857.73	811,859.42
13,544.00	91.54	359.01	9,737.34	6,402.84	4,051.66	-41.58	4,051.87	0.56	392,952.69	811,857.75
13,639.00	90.66	359.05	9,735.51	6,401.01	4,146.63	-43.19	4,146.85	0.93	393,047.66	811,856.14
13,733.00	91.01	358.42	9,734.14	6,399.64	4,240.59	-45.26	4,240.83	0.77	393,141.62	811,854.07
13,828.00	90.92	358.83	9,732.54	6,398.04	4,335.55	-47.54	4,335.80	0.44	393,236.58	811,851.79
13,924.00	90.75	358.37	9,731.14	6,396.64	4,431.51	-49.89	4,431.78	0.51	393,332.54	811,849.44
14,002.00	90.84	358.45	9,730.06	6,395.56	4,509.48	-52.05	4,509.76	0.15	393,410.51	811,847.28
14,073.00	90.84	358.45	9,729.02	6,394.52	4,580.44	-53.97	4,580.74	0.00	393,481.47	811,845.36

BHL - 14073.00'MD, 9729.02TVD, 4580.44'N, -53.97'E - PBHL - Dean "APQ" Fed.2H



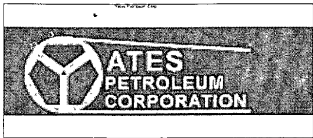
Pathfinder
Pathfinder X&Y Report



Company: Yates Petroleum Corp.	Local Co-ordinate Reference:	Well 2H:
Project: Lea County	TVD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Site: Dean "APQ" Federal	MD Reference:	KB = 21.5' @ 3334.50usft (Patterson 36)
Well: 2H	North Reference:	Grid
Wellbore: OH	Survey Calculation Method:	Minimum Curvature
Design: OH	Database:	EDM:5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,220.00	9,219.24	-14.24	46.99	KOP - 9220.00'MD, 9219.24TVD', -14.24'N, 46.99'E
10,078.00	9,704.14	588.64	42.15	LP - 10078.00'MD, 9704.14TVD', 588.64'N, 42.15'E
14,073.00	9,729.02	4,580.44	-53.97	BHL - 14073.00'MD, 9729.02TVD', 4580.44'N, -53.97'E

Checked By: _____ Approved By: _____ Date: _____



Project: Lea County
 Site: Dean "APQ" FEederal
 Well: 2H
 Wellbore: OH
 Plan: Side Track Plan #2 (2H/OH)



A Schlumberger Company

WELL DETAILS: 2H

Ground Elevation: 3313.00
 RKB Elevation: KB = 21.5' @ 3334.50usft (Patterson 36)
 Rig Name: Patterson 36

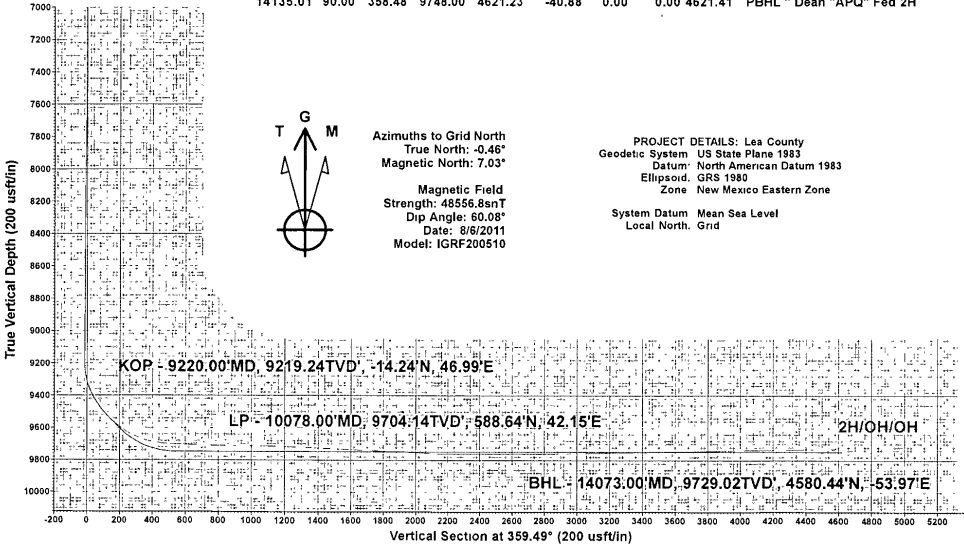
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	388901.030	811899.330	32° 3' 58.172 N	103° 27' 35.664 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL "Dean "APQ" Fed 2H 9748.00	4621.23	-4621.23	-40.88	393522.260	811858.450	Point

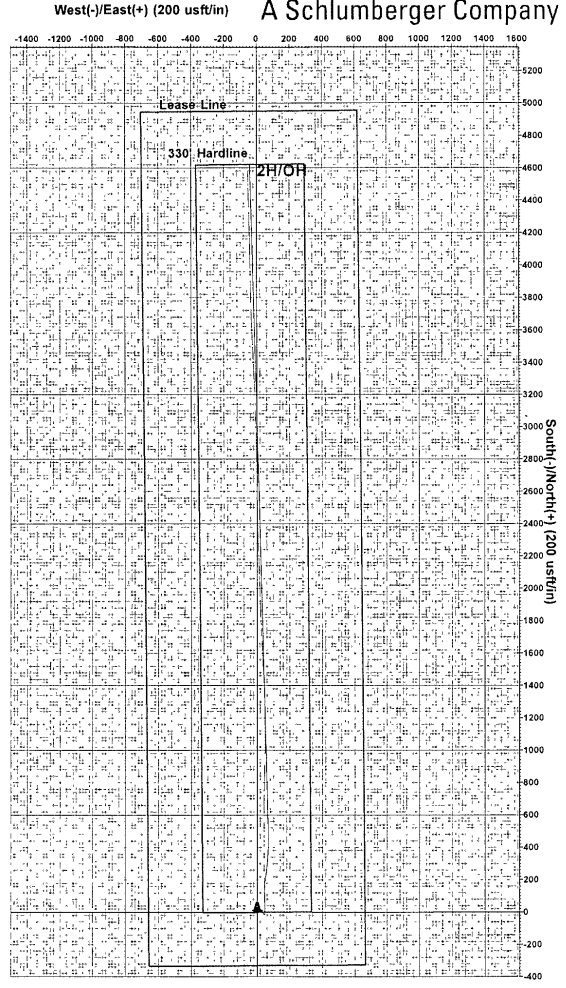
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
9590.50	45.28	359.03	9544.63	143.29	43.96	0.00	0.00	142.90	
9656.88	43.00	10.00	9592.34	189.24	47.50	12.00	110.53	188.81	
10057.44	90.00	358.48	9748.05	545.09	67.08	12.00	-15.57	544.47	
14135.01	90.00	358.48	9748.00	4621.23	-40.88	0.00	0.00	4621.41	PBHL "Dean "APQ" Fed 2H



Azimuths to Grid North
 True North: -0.46°
 Magnetic North: 7.03°
 Magnetic Field
 Strength: 48556.8snT
 Dip Angle: 60.08°
 Date: 8/6/2011
 Model: IGRF200510

PROJECT DETAILS: Lea 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: Side Track Plan #2 (2H/OH)
 Created By: Marcus Metcham Date: 7.41, August 31 2011
 Checked: _____ Date: _____