



30.025- 40131

Devon Energy, Inc.

Lea County (NAD83)

Brown Bear 14 State

#1H

OH

HOBBS OCD

NOV 19 2012

EG 12-06-2012

RECEIVED

Design: OH

PathfinderX & Y Report

16 November, 2012

PATHFINDER[®]

A Schlumberger Company



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3922.5usft (McVay 8)
MD Reference: KB = 19 @ 3922.5usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project Lea County (NAD83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Brown Bear 14 State

Site Position:		Northing:	634,448.670 usft	Latitude:	32.742227
From:	Map	Easting:	754,099.780 usft	Longitude:	-103.641352
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well #1H

Well Position	+N/-S	0.0 usft	Northing:	634,448.670 usft	Latitude:	32.742227
	+E/-W	0.0 usft	Easting:	754,099.780 usft	Longitude:	-103.641352
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,903.5 usft	

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/30/2012	7.52	60.63	48,805

Design OH

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	0.00



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3922.5usft (McVay 8)
MD Reference: KB = 19 @ 3922.5usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program		Date	11/16/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
100.0	4,675.0	Gyro #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s		
4,799.0	9,685.0	MWD #1 (OH)	Pathfinder	Pathfinder MWD		

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)
	0.0	0.00	0.00	0.0	-3,922.5	0.0	0.0	0.0	0.00	634,448.67	754,099.78
	100.0	0.60	53.82	100.0	-3,822.5	0.3	0.4	0.3	0.60	634,448.98	754,100.20
	200.0	0.42	87.47	200.0	-3,722.5	0.6	1.2	0.6	0.34	634,449.30	754,100.99
	300.0	0.23	44.01	300.0	-3,622.5	0.8	1.7	0.8	0.30	634,449.46	754,101.50
	400.0	0.31	0.08	400.0	-3,522.5	1.2	1.9	1.2	0.22	634,449.88	754,101.64
	500.0	0.13	348.44	500.0	-3,422.5	1.6	1.8	1.6	0.18	634,450.26	754,101.61
	600.0	0.14	319.82	600.0	-3,322.5	1.8	1.7	1.8	0.07	634,450.47	754,101.51
	700.0	0.24	308.21	700.0	-3,222.5	2.0	1.5	2.0	0.11	634,450.69	754,101.27
	800.0	0.47	256.17	800.0	-3,122.5	2.1	0.9	2.1	0.37	634,450.72	754,100.71
	900.0	0.50	263.02	900.0	-3,022.5	1.9	0.1	1.9	0.07	634,450.57	754,099.88
	1,000.0	0.67	261.89	1,000.0	-2,922.5	1.8	-0.9	1.8	0.17	634,450.43	754,098.86
	1,100.0	0.58	251.60	1,100.0	-2,822.5	1.5	-2.0	1.5	0.14	634,450.19	754,097.80
	1,200.0	0.43	267.06	1,200.0	-2,722.5	1.3	-2.8	1.3	0.20	634,450.01	754,096.95
	1,300.0	0.73	270.42	1,300.0	-2,622.5	1.3	-3.8	1.3	0.30	634,450.00	754,095.94
	1,400.0	0.93	279.09	1,400.0	-2,522.5	1.5	-5.3	1.5	0.24	634,450.13	754,094.50
	1,500.0	1.06	330.38	1,499.9	-2,422.6	2.4	-6.5	2.4	0.87	634,451.06	754,093.24
	1,600.0	1.05	295.99	1,599.9	-2,322.6	3.6	-7.8	3.6	0.62	634,452.27	754,091.96
	1,700.0	0.78	293.47	1,699.9	-2,222.6	4.3	-9.3	4.3	0.27	634,452.94	754,090.51
	1,800.0	0.72	234.70	1,799.9	-2,122.6	4.2	-10.4	4.2	0.74	634,452.85	754,089.37
	1,900.0	0.76	299.70	1,899.9	-2,022.6	4.1	-11.5	4.1	0.80	634,452.81	754,088.29
	2,000.0	0.78	303.97	1,999.9	-1,922.6	4.9	-12.6	4.9	0.06	634,453.52	754,087.15



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well #1H

KB = 19 @ 3922.5usft (McVay 8)

KB = 19 @ 3922.5usft (McVay 8)

Grid

Minimum Curvature

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)
2,100.0	0.34	305.00	2,099.9	-1,822.6	5.4	-13.4	5.4	0.44	634,454.07	754,086.34
2,200.0	0.28	334.33	2,199.9	-1,722.6	5.8	-13.8	5.8	0.17	634,454.46	754,085.99
2,300.0	0.48	44.09	2,299.9	-1,622.6	6.3	-13.6	6.3	0.46	634,454.99	754,086.17
2,400.0	0.73	35.04	2,399.9	-1,522.6	7.1	-12.9	7.1	0.27	634,455.81	754,086.83
2,500.0	1.19	57.71	2,499.9	-1,422.6	8.2	-11.7	8.2	0.59	634,456.88	754,088.08
2,600.0	1.23	49.33	2,599.8	-1,322.7	9.5	-10.0	9.5	0.18	634,458.14	754,089.77
2,700.0	1.49	46.73	2,699.8	-1,222.7	11.1	-8.3	11.1	0.27	634,459.73	754,091.53
2,800.0	1.56	44.91	2,799.8	-1,122.7	12.9	-6.3	12.9	0.09	634,461.58	754,093.44
2,900.0	1.77	43.48	2,899.7	-1,022.8	15.0	-4.3	15.0	0.21	634,463.67	754,095.46
3,000.0	1.68	38.52	2,999.7	-922.8	17.3	-2.3	17.3	0.17	634,465.94	754,097.43
3,100.0	1.57	34.20	3,099.6	-822.9	19.5	-0.7	19.5	0.16	634,468.22	754,099.12
3,200.0	1.34	28.25	3,199.6	-722.9	21.7	0.7	21.7	0.27	634,470.38	754,100.44
3,300.0	1.69	22.36	3,299.6	-622.9	24.1	1.8	24.1	0.38	634,472.77	754,101.56
3,400.0	1.80	30.11	3,399.5	-523.0	26.8	3.1	26.8	0.26	634,475.50	754,102.90
3,500.0	1.85	40.41	3,499.5	-423.0	29.4	5.0	29.4	0.33	634,478.08	754,104.74
3,600.0	1.90	48.99	3,599.4	-323.1	31.7	7.3	31.7	0.28	634,480.40	754,107.04
3,700.0	1.95	42.61	3,699.4	-223.1	34.1	9.7	34.1	0.22	634,482.74	754,109.44
3,800.0	1.87	40.25	3,799.3	-123.2	36.6	11.9	36.6	0.11	634,485.24	754,111.64
3,900.0	1.66	38.39	3,899.3	-23.2	38.9	13.8	38.9	0.22	634,487.62	754,113.60
4,000.0	1.93	32.32	3,999.2	76.7	41.5	15.6	41.5	0.33	634,490.18	754,115.40
4,100.0	1.91	30.87	4,099.2	176.7	44.4	17.4	44.4	0.05	634,493.03	754,117.15
4,200.0	1.58	16.32	4,199.1	276.6	47.1	18.6	47.1	0.55	634,495.78	754,118.40
4,300.0	1.77	21.90	4,299.1	376.6	49.9	19.6	49.9	0.25	634,498.54	754,119.36
4,400.0	1.89	34.64	4,399.0	476.5	52.7	21.1	52.7	0.42	634,501.33	754,120.87
4,500.0	1.99	38.40	4,499.0	576.5	55.4	23.1	55.4	0.16	634,504.05	754,122.89
4,600.0	1.54	41.30	4,598.9	676.4	57.7	25.1	57.7	0.46	634,506.42	754,124.85
4,675.0	1.95	28.40	4,673.9	751.4	59.6	26.3	59.6	0.75	634,508.30	754,126.13



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3922.5usft (McVay 8)
MD Reference: KB = 19 @ 3922.5usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
4,799.0	4.84	70.68	4,797.7	875.2	63.2	32.3	63.2	2.94	634,511.88	754,132.07
KOP - 4799.0 'MD, 4797.7 'TVD, 63.2 'N, 32.3 'E										
4,862.0	10.64	81.41	4,860.1	937.6	65.0	40.6	65.0	9.45	634,513.63	754,140.33
4,892.0	13.72	83.69	4,889.4	966.9	65.8	46.8	65.8	10.39	634,514.44	754,146.61
4,924.0	16.97	86.07	4,920.3	997.8	66.5	55.3	66.5	10.34	634,515.18	754,155.04
4,955.0	20.05	86.77	4,949.6	1,027.1	67.1	65.1	67.1	9.96	634,515.79	754,164.87
4,987.0	22.86	87.12	4,979.4	1,056.9	67.7	76.8	67.7	8.79	634,516.41	754,176.55
5,019.0	25.94	86.33	5,008.6	1,086.1	68.5	90.0	68.5	9.68	634,517.17	754,189.75
5,050.0	29.02	85.71	5,036.1	1,113.6	69.5	104.2	69.5	9.98	634,518.16	754,204.02
5,082.0	32.54	85.36	5,063.5	1,141.0	70.8	120.6	70.8	11.01	634,519.44	754,220.34
5,114.0	35.96	85.27	5,090.0	1,167.5	72.2	138.5	72.2	10.69	634,520.91	754,238.29
5,145.0	39.31	85.63	5,114.5	1,192.0	73.7	157.4	73.7	10.83	634,522.41	754,257.15
5,177.0	43.18	85.80	5,138.6	1,216.1	75.3	178.4	75.3	12.10	634,523.99	754,278.19
5,209.0	46.87	85.71	5,161.2	1,238.7	77.0	201.0	77.0	11.53	634,525.66	754,300.76
5,240.0	50.56	85.89	5,181.7	1,259.2	78.7	224.2	78.7	11.91	634,527.37	754,323.99
5,272.0	54.69	86.68	5,201.1	1,278.6	80.3	249.6	80.3	13.05	634,529.01	754,349.36
5,304.0	58.04	87.74	5,218.8	1,296.3	81.6	276.2	81.6	10.83	634,530.30	754,375.96
5,336.0	61.73	88.18	5,234.9	1,312.4	82.6	303.8	82.6	11.59	634,531.28	754,403.62
5,367.0	64.28	88.53	5,248.9	1,326.4	83.4	331.5	83.4	8.29	634,532.08	754,431.23
5,399.0	67.01	88.97	5,262.1	1,339.6	84.0	360.6	84.0	8.62	634,532.71	754,460.37
5,430.0	69.03	89.67	5,273.7	1,351.2	84.4	389.3	84.4	6.84	634,533.05	754,489.12
5,462.0	71.31	91.08	5,284.6	1,362.1	84.2	419.4	84.2	8.24	634,532.85	754,519.22
5,494.0	73.78	91.51	5,294.2	1,371.7	83.5	450.0	83.5	7.82	634,532.16	754,549.73
5,525.0	76.15	92.48	5,302.2	1,379.7	82.4	479.9	82.4	8.22	634,531.12	754,579.65
5,557.0	77.91	92.78	5,309.4	1,386.9	81.0	511.0	81.0	5.58	634,529.69	754,610.80
5,602.0	80.72	92.40	5,317.7	1,395.2	79.0	555.2	79.0	6.30	634,527.69	754,654.97
5,620.0	82.75	92.28	5,320.3	1,397.8	78.3	573.0	78.3	11.30	634,526.96	754,672.77



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3922.5usft (McVay 8)
MD Reference: KB = 19 @ 3922.5usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
5,652.0	86.53	92.31	5,323.3	1,400.8	77.0	604.8	77.0	11.81	634,525.69	754,704.60
5,684.0	88.20	92.23	5,324.8	1,402.3	75.8	636.8	75.8	5.22	634,524.42	754,736.54
LP - 5684.0 'MD, 5324.8 'TVD, 75.8 'N, 636.8 'E										
5,716.0	88.64	92.56	5,325.7	1,403.2	74.4	668.7	74.4	1.72	634,523.08	754,768.50
5,811.0	90.92	92.59	5,326.0	1,403.5	70.1	763.6	70.1	2.40	634,518.82	754,863.39
5,906.0	91.80	90.50	5,323.8	1,401.3	67.6	858.5	67.6	2.39	634,516.25	754,958.32
6,001.0	88.55	87.03	5,323.5	1,401.0	69.6	953.5	69.6	5.00	634,518.30	755,053.28
6,096.0	88.45	87.63	5,326.0	1,403.5	74.1	1,048.4	74.1	0.64	634,522.73	755,148.14
6,191.0	89.52	88.37	5,327.7	1,405.2	77.4	1,143.3	77.4	1.37	634,526.04	755,243.06
6,286.0	89.96	90.99	5,328.1	1,405.6	77.9	1,238.3	77.9	2.80	634,526.57	755,338.05
6,381.0	90.92	90.67	5,327.4	1,404.9	76.5	1,333.3	76.5	1.07	634,525.20	755,433.04
6,476.0	91.80	90.71	5,325.1	1,402.6	75.4	1,428.2	75.4	0.93	634,524.05	755,528.00
6,571.0	91.98	91.25	5,322.0	1,399.5	73.8	1,523.2	73.8	0.60	634,522.43	755,622.94
6,666.0	90.92	91.63	5,319.6	1,397.1	71.4	1,618.1	71.4	1.19	634,520.04	755,717.88
6,761.0	88.20	92.42	5,320.3	1,397.8	68.0	1,713.0	68.0	2.98	634,516.68	755,812.80
6,856.0	87.49	92.56	5,323.9	1,401.4	63.9	1,807.9	63.9	0.76	634,512.56	755,907.65
6,951.0	87.67	92.27	5,327.9	1,405.4	59.9	1,902.7	59.9	0.36	634,508.56	756,002.48
7,046.0	89.52	90.27	5,330.2	1,407.7	57.8	1,997.6	57.8	2.87	634,506.46	756,097.42
7,141.0	89.43	89.85	5,331.1	1,408.6	57.7	2,092.6	57.7	0.45	634,506.36	756,192.41
7,236.0	90.31	89.91	5,331.3	1,408.8	57.9	2,187.6	57.9	0.93	634,506.56	756,287.41
7,331.0	89.66	90.70	5,331.3	1,408.8	57.4	2,282.6	57.4	1.08	634,506.05	756,382.41
7,426.0	89.52	90.59	5,332.0	1,409.5	56.3	2,377.6	56.3	0.19	634,504.98	756,477.40
7,521.0	89.16	90.14	5,333.1	1,410.6	55.7	2,472.6	55.7	0.61	634,504.38	756,572.39
7,616.0	89.43	89.76	5,334.3	1,411.8	55.8	2,567.6	55.8	0.49	634,504.46	756,667.38
7,712.0	88.64	88.91	5,335.9	1,413.4	56.9	2,663.6	56.9	1.21	634,505.57	756,763.36
7,807.0	88.55	88.42	5,338.2	1,415.7	59.1	2,758.5	59.1	0.52	634,507.79	756,858.31
7,902.0	88.99	87.54	5,340.3	1,417.8	62.5	2,853.4	62.5	1.04	634,511.13	756,953.23



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3922.5usft (McVay 8)
MD Reference: KB = 19 @ 3922.5usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
7,997.0	89.34	87.00	5,341.6	1,419.1	67.0	2,948.3	67.0	0.68	634,515.66	757,048.11
8,092.0	89.60	88.95	5,342.5	1,420.0	70.3	3,043.3	70.3	2.07	634,519.01	757,143.04
8,187.0	89.16	90.62	5,343.5	1,421.0	70.7	3,138.2	70.7	1.82	634,519.37	757,238.03
8,282.0	89.96	91.20	5,344.3	1,421.8	69.2	3,233.2	69.2	1.04	634,517.86	757,333.01
8,377.0	90.92	91.28	5,343.5	1,421.0	67.1	3,328.2	67.1	1.01	634,515.81	757,427.99
8,472.0	91.80	91.59	5,341.3	1,418.8	64.8	3,423.2	64.8	0.98	634,513.43	757,522.93
8,567.0	92.59	91.01	5,337.7	1,415.2	62.6	3,518.1	62.6	1.03	634,511.27	757,617.83
8,662.0	90.57	90.83	5,335.0	1,412.5	61.1	3,613.0	61.1	2.13	634,509.75	757,712.78
8,752.0	90.04	90.85	5,334.6	1,412.1	59.8	3,703.0	59.8	0.59	634,508.43	757,802.77
8,852.0	89.78	91.86	5,334.7	1,412.2	57.4	3,803.0	57.4	1.04	634,506.07	757,902.74
8,947.0	89.52	92.27	5,335.3	1,412.8	54.0	3,897.9	54.0	0.51	634,502.64	757,997.68
9,042.0	90.66	92.43	5,335.1	1,412.6	50.1	3,992.8	50.1	1.21	634,498.75	758,092.60
9,137.0	90.04	92.45	5,334.6	1,412.1	46.0	4,087.7	46.0	0.65	634,494.70	758,187.51
9,232.0	89.16	90.81	5,335.2	1,412.7	43.3	4,182.7	43.3	1.96	634,492.00	758,282.46
9,295.0	89.34	89.82	5,336.1	1,413.6	43.0	4,245.7	43.0	1.60	634,491.65	758,345.45
9,358.0	86.00	89.16	5,338.6	1,416.1	43.5	4,308.6	43.5	5.40	634,492.21	758,408.39
9,453.0	87.05	89.70	5,344.4	1,421.9	44.5	4,403.4	44.5	1.24	634,493.16	758,503.21
9,548.0	88.37	90.34	5,348.2	1,425.7	44.5	4,498.4	44.5	1.54	634,493.12	758,598.13
9,603.0	88.99	90.47	5,349.4	1,426.9	44.1	4,553.3	44.1	1.15	634,492.74	758,653.12
9,685.0	89.99	90.47	5,350.2	1,427.7	43.4	4,635.3	43.4	1.22	634,492.06	758,735.11

PROJECTED BHL - 9685.0 'MD, 5350.2 'TVD, 43.4 'N, 4635.3 'E



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3922.5usft (McVay 8)
MD Reference: KB = 19 @ 3922.5usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,799.0	4,797.7	63.2	32.3	KOP - 4799.0 'MD, 4797.7 'TVD, 63.2 'N, 32.3 'E
5,684.0	5,324.8	75.8	636.8	LP - 5684.0 'MD, 5324.8 'TVD, 75.8 'N, 636.8 'E
9,685.0	5,350.2	43.4	4,635.3	PROJECTED BHL - 9685.0 'MD, 5350.2 'TVD, 43.4 'N, 4635.3 'E

Checked By: _____ Approved By: _____ Date: _____



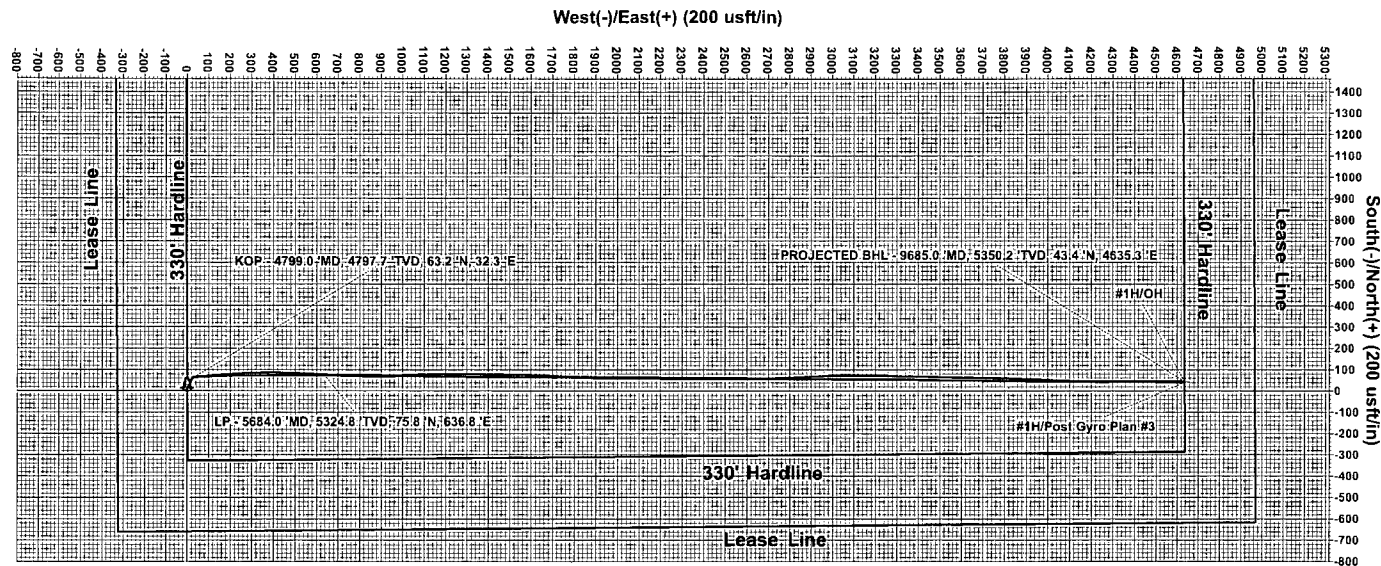
Project: Lea County (NAD83)
Site: Brown Bear 14 State
Well: #1H
Wellbore: OH
Plan: Post Gyro Plan #3 (#1H/OH)

PROJECT DETAILS: Lea County (NAD83)
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

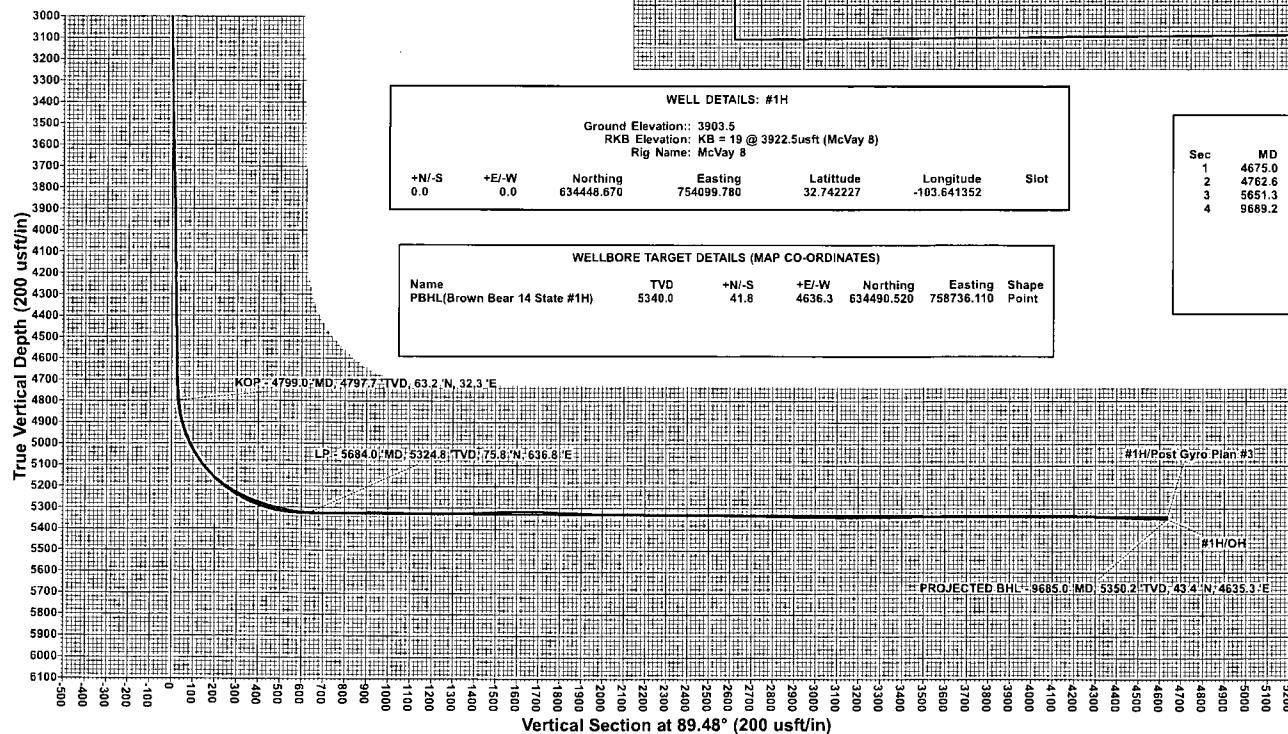
EOW



WELL DETAILS: #1H						
Ground Elevation:: 3903.5						
RKB Elevation: KB ± 19 @ 3922.5usft (McVay 8)						
Rig Name: McVay 8						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	634448.670	754099.780	32.742227	-103.641352	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Brown Bear 14 State #1H)	5340.0	41.8	4636.3	634490.520	758736.110	Point

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	4675.0	1.95	28.40	4673.9	59.6	26.3	0.00	0.00	26.9	
2	4762.6	1.95	28.40	4761.4	62.2	27.8	0.00	0.00	28.3	
3	5651.3	89.79	90.46	5325.0	74.5	598.6	10.00	62.08	599.3	
4	9689.2	89.79	90.46	5340.0	41.8	4636.3	0.00	0.00	4636.5	PBHL(Brown Bear 14 State #1H)



Azimuths to Grid North
True North: -0.37°
Magnetic North: 7.14°

Magnetic Field
Strength: 48804.7snT
Dip Angle: 60.63°
Date: 7/30/2012
Model: IGRF2010

Plan: Post Gyro Plan #3 (#1H/OH)

Created By: Sam Bittle Date: 9/30, November 16 2012

Checked: _____ Date: _____