



Regeneration Energy

Lea County
Lepakast State Com
#1H
OH

Plan: Plan #1

PathfinderX & Y Report

29 February, 2012

PATHFINDER®
A Schlumberger Company

MAR 06 2012

30-025-40473



Pathfinder
PathfinderX & Y Report

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Company:	Regeneration Energy	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	KB = 17' @ 3404.0usft (Original Well Elev)
Site:	Lepakast State Com	MD Reference:	KB = 17' @ 3404.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Project	Leg/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: Lepakast State Com					
Site Position:		Northings:	468,109.600 usft	Latitude:	32° 17' 1.022 N
From:	Map	Easting:	783,508.000 usft	Longitude:	103° 24' 57.448 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 "

Well: #1H						
Well Position	+N/-S	0.0 usft	Northings:	468,109.600 usft	Latitude:	32° 17' 1.022 N
	+E/-W	0.0 usft	Easting:	783,508.000 usft	Longitude:	103° 24' 57.448 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,387.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/29/2012	7.42	60.28	48,637

Design: Plan #1				
Audit Notes:				
Version:		Phase: PLAN	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.50

Survey Tool Program:		Date: 2/29/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	13,315.4	Plan #1 (OH)	MWD	MWD - Standard



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Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V' Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3.404.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
100.0	0.00	0.00	100.0	-3.304.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
200.0	0.00	0.00	200.0	-3.204.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
300.0	0.00	0.00	300.0	-3.104.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
400.0	0.00	0.00	400.0	-3.004.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
500.0	0.00	0.00	500.0	-2.904.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
600.0	0.00	0.00	600.0	-2.804.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
700.0	0.00	0.00	700.0	-2.704.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
800.0	0.00	0.00	800.0	-2.604.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
900.0	0.00	0.00	900.0	-2.504.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,000.0	0.00	0.00	1,000.0	-2.404.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,100.0	0.00	0.00	1,100.0	-2.304.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,200.0	0.00	0.00	1,200.0	-2.204.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,300.0	0.00	0.00	1,300.0	-2.104.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,400.0	0.00	0.00	1,400.0	-2.004.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,500.0	0.00	0.00	1,500.0	-1.904.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,600.0	0.00	0.00	1,600.0	-1.804.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,700.0	0.00	0.00	1,700.0	-1.704.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,800.0	0.00	0.00	1,800.0	-1.604.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
1,900.0	0.00	0.00	1,900.0	-1.504.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,000.0	0.00	0.00	2,000.0	-1.404.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,100.0	0.00	0.00	2,100.0	-1.304.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,200.0	0.00	0.00	2,200.0	-1.204.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,300.0	0.00	0.00	2,300.0	-1.104.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,400.0	0.00	0.00	2,400.0	-1.004.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,500.0	0.00	0.00	2,500.0	-904.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,600.0	0.00	0.00	2,600.0	-804.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	



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Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.0	0.00	0.00	2,700.0	-704.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,800.0	0.00	0.00	2,800.0	-604.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
2,900.0	0.00	0.00	2,900.0	-504.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,000.0	0.00	0.00	3,000.0	-404.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,100.0	0.00	0.00	3,100.0	-304.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,200.0	0.00	0.00	3,200.0	-204.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,300.0	0.00	0.00	3,300.0	-104.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,400.0	0.00	0.00	3,400.0	-4.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,500.0	0.00	0.00	3,500.0	96.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,600.0	0.00	0.00	3,600.0	196.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,700.0	0.00	0.00	3,700.0	296.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,800.0	0.00	0.00	3,800.0	396.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
3,900.0	0.00	0.00	3,900.0	496.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,000.0	0.00	0.00	4,000.0	596.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,100.0	0.00	0.00	4,100.0	696.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,200.0	0.00	0.00	4,200.0	796.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,300.0	0.00	0.00	4,300.0	896.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,400.0	0.00	0.00	4,400.0	996.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,500.0	0.00	0.00	4,500.0	1,096.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,600.0	0.00	0.00	4,600.0	1,196.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,700.0	0.00	0.00	4,700.0	1,296.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,800.0	0.00	0.00	4,800.0	1,396.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
4,900.0	0.00	0.00	4,900.0	1,496.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,000.0	0.00	0.00	5,000.0	1,596.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,100.0	0.00	0.00	5,100.0	1,696.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,200.0	0.00	0.00	5,200.0	1,796.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,300.0	0.00	0.00	5,300.0	1,896.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	



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Planned Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V/Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastings (usft)	
5,400.0	0.00	0.00	5,400.0	1,996.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,500.0	0.00	0.00	5,500.0	2,096.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,600.0	0.00	0.00	5,600.0	2,196.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,700.0	0.00	0.00	5,700.0	2,296.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,800.0	0.00	0.00	5,800.0	2,396.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
5,900.0	0.00	0.00	5,900.0	2,496.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,000.0	0.00	0.00	6,000.0	2,596.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,100.0	0.00	0.00	6,100.0	2,696.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,200.0	0.00	0.00	6,200.0	2,796.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,300.0	0.00	0.00	6,300.0	2,896.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,400.0	0.00	0.00	6,400.0	2,996.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,500.0	0.00	0.00	6,500.0	3,096.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,600.0	0.00	0.00	6,600.0	3,196.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,700.0	0.00	0.00	6,700.0	3,296.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,800.0	0.00	0.00	6,800.0	3,396.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
6,900.0	0.00	0.00	6,900.0	3,496.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,000.0	0.00	0.00	7,000.0	3,596.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,100.0	0.00	0.00	7,100.0	3,696.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,200.0	0.00	0.00	7,200.0	3,796.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,300.0	0.00	0.00	7,300.0	3,896.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,400.0	0.00	0.00	7,400.0	3,996.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,500.0	0.00	0.00	7,500.0	4,096.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,600.0	0.00	0.00	7,600.0	4,196.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,700.0	0.00	0.00	7,700.0	4,296.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,800.0	0.00	0.00	7,800.0	4,396.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
7,900.0	0.00	0.00	7,900.0	4,496.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
8,000.0	0.00	0.00	8,000.0	4,596.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastng (usft)	
8,100.0	0.00	0.00	8,100.0	4,696.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
8,200.0	0.00	0.00	8,200.0	4,796.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
8,300.0	0.00	0.00	8,300.0	4,896.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
8,400.0	0.00	0.00	8,400.0	4,996.0	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
8,422.5	0.00	0.00	8,422.5	5,018.5	0.0	0.0	0.0	0.00	468,109.60	783,508.00	
8,425.0	0.30	359.50	8,425.0	5,021.0	0.0	0.0	0.0	12.00	468,109.61	783,508.00	
8,450.0	3.30	359.50	8,450.0	5,046.0	0.8	0.0	0.8	12.00	468,110.39	783,507.99	
8,475.0	6.30	359.50	8,474.9	5,070.9	2.9	0.0	2.9	12.00	468,112.48	783,507.97	
8,500.0	9.30	359.50	8,499.7	5,095.7	6.3	-0.1	6.3	12.00	468,115.88	783,507.95	
8,525.0	12.30	359.50	8,524.2	5,120.2	11.0	-0.1	11.0	12.00	468,120.56	783,507.90	
8,550.0	15.30	359.50	8,548.5	5,144.5	16.9	-0.1	16.9	12.00	468,126.52	783,507.85	
8,575.0	18.30	359.50	8,572.4	5,168.4	24.1	-0.2	24.1	12.00	468,133.75	783,507.79	
8,600.0	21.30	359.50	8,595.9	5,191.9	32.6	-0.3	32.6	12.00	468,142.21	783,507.72	
8,625.0	24.30	359.50	8,619.0	5,215.0	42.3	-0.4	42.3	12.00	468,151.90	783,507.63	
8,650.0	27.30	359.50	8,641.5	5,237.5	53.2	-0.5	53.2	12.00	468,162.78	783,507.54	
8,675.0	30.30	359.50	8,663.4	5,259.4	65.2	-0.6	65.2	12.00	468,174.82	783,507.43	
8,700.0	33.30	359.50	8,684.6	5,280.6	78.4	-0.7	78.4	12.00	468,187.99	783,507.32	
8,725.0	36.30	359.50	8,705.2	5,301.2	92.7	-0.8	92.7	12.00	468,202.26	783,507.20	
8,750.0	39.30	359.50	8,724.9	5,320.9	108.0	-0.9	108.0	12.00	468,217.58	783,507.06	
8,775.0	42.30	359.50	8,743.8	5,339.8	124.3	-1.1	124.3	12.00	468,233.91	783,506.92	
8,800.0	45.30	359.50	8,761.9	5,357.9	141.6	-1.2	141.6	12.00	468,251.21	783,506.77	
8,825.0	48.30	359.50	8,779.0	5,375.0	159.8	-1.4	159.8	12.00	468,269.43	783,506.61	
8,850.0	51.30	359.50	8,795.1	5,391.1	178.9	-1.6	178.9	12.00	468,288.53	783,506.45	
8,875.0	54.30	359.50	8,810.2	5,406.2	198.8	-1.7	198.8	12.00	468,308.44	783,506.27	
8,900.0	57.30	359.50	8,824.3	5,420.3	219.5	-1.9	219.5	12.00	468,329.11	783,506.09	
8,925.0	60.30	359.50	8,837.2	5,433.2	240.9	-2.1	240.9	12.00	468,350.49	783,505.91	
8,950.0	63.30	359.50	8,849.1	5,445.1	262.9	-2.3	262.9	12.00	468,372.52	783,505.72	



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,975.0	66.30	359.50	8,859.7	5,455.7	285.5	-2.5	285.5	12.00	468,395.14	783,505.52
9,000.0	69.30	359.50	8,869.1	5,465.1	308.7	-2.7	308.7	12.00	468,418.28	783,505.32
9,025.0	72.30	359.50	8,877.4	5,473.4	332.3	-2.9	332.3	12.00	468,441.89	783,505.12
9,050.0	75.30	359.50	8,884.3	5,480.3	356.3	-3.1	356.3	12.00	468,465.89	783,504.91
9,075.0	78.30	359.50	8,890.0	5,486.0	380.6	-3.3	380.6	12.00	468,490.23	783,504.70
9,100.0	81.30	359.50	8,894.5	5,490.5	405.2	-3.5	405.2	12.00	468,514.83	783,504.48
9,125.0	84.30	359.50	8,897.6	5,493.6	430.0	-3.7	430.0	12.00	468,539.63	783,504.27
9,150.0	87.30	359.50	8,899.4	5,495.4	455.0	-3.9	455.0	12.00	468,564.56	783,504.05
9,172.5	90.00	359.50	8,900.0	5,496.0	477.4	-4.1	477.5	12.00	468,587.04	783,503.86
9,200.0	90.00	359.50	8,900.0	5,496.0	504.9	-4.4	505.0	0.00	468,614.55	783,503.62
9,300.0	90.00	359.50	8,900.0	5,496.0	604.9	-5.3	605.0	0.00	468,714.54	783,502.75
9,400.0	90.00	359.50	8,900.0	5,496.0	704.9	-6.1	705.0	0.00	468,814.54	783,501.88
9,500.0	90.00	359.50	8,900.0	5,496.0	804.9	-7.0	805.0	0.00	468,914.53	783,501.01
9,600.0	90.00	359.50	8,900.0	5,496.0	904.9	-7.9	905.0	0.00	469,014.53	783,500.15
9,700.0	90.00	359.50	8,900.0	5,496.0	1,004.9	-8.7	1,005.0	0.00	469,114.53	783,499.28
9,800.0	90.00	359.50	8,900.0	5,496.0	1,104.9	-9.6	1,105.0	0.00	469,214.52	783,498.41
9,900.0	90.00	359.50	8,900.0	5,496.0	1,204.9	-10.5	1,205.0	0.00	469,314.52	783,497.54
10,000.0	90.00	359.50	8,900.0	5,496.0	1,304.9	-11.3	1,305.0	0.00	469,414.52	783,496.67
10,100.0	90.00	359.50	8,900.0	5,496.0	1,404.9	-12.2	1,405.0	0.00	469,514.51	783,495.81
10,200.0	90.00	359.50	8,900.0	5,496.0	1,504.9	-13.1	1,505.0	0.00	469,614.51	783,494.94
10,300.0	90.00	359.50	8,900.0	5,496.0	1,604.9	-13.9	1,605.0	0.00	469,714.50	783,494.07
10,400.0	90.00	359.50	8,900.0	5,496.0	1,704.9	-14.8	1,705.0	0.00	469,814.50	783,493.20
10,500.0	90.00	359.50	8,900.0	5,496.0	1,804.9	-15.7	1,805.0	0.00	469,914.50	783,492.33
10,600.0	90.00	359.50	8,900.0	5,496.0	1,904.9	-16.5	1,905.0	0.00	470,014.49	783,491.47
10,700.0	90.00	359.50	8,900.0	5,496.0	2,004.9	-17.4	2,005.0	0.00	470,114.49	783,490.60
10,800.0	90.00	359.50	8,900.0	5,496.0	2,104.9	-18.3	2,105.0	0.00	470,214.49	783,489.73
10,900.0	90.00	359.50	8,900.0	5,496.0	2,204.9	-19.1	2,205.0	0.00	470,314.48	783,488.86



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	ReGeneration Energy	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	KB = 17 @ 3404.0usft (Original Well Elev)
Site:	Lopokast State Com	MD Reference:	KB = 17 @ 3404.0usft (Original Well Elev)
Well:	E1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned 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)	
11,000.0	90.00	359.50	8,900.0	5,496.0	2,304.9	-20.0	2,305.0	0.00	470,414.48	783,488.00	
11,100.0	90.00	359.50	8,900.0	5,496.0	2,404.9	-20.9	2,405.0	0.00	470,514.47	783,487.13	
11,200.0	90.00	359.50	8,900.0	5,496.0	2,504.9	-21.7	2,505.0	0.00	470,614.47	783,486.26	
11,300.0	90.00	359.50	8,900.0	5,496.0	2,604.9	-22.6	2,605.0	0.00	470,714.47	783,485.39	
11,400.0	90.00	359.50	8,900.0	5,496.0	2,704.9	-23.5	2,705.0	0.00	470,814.46	783,484.52	
11,500.0	90.00	359.50	8,900.0	5,496.0	2,804.9	-24.3	2,805.0	0.00	470,914.46	783,483.66	
11,600.0	90.00	359.50	8,900.0	5,496.0	2,904.9	-25.2	2,905.0	0.00	471,014.46	783,482.79	
11,700.0	90.00	359.50	8,900.0	5,496.0	3,004.9	-26.1	3,005.0	0.00	471,114.45	783,481.92	
11,800.0	90.00	359.50	8,900.0	5,496.0	3,104.8	-26.9	3,105.0	0.00	471,214.45	783,481.05	
11,900.0	90.00	359.50	8,900.0	5,496.0	3,204.8	-27.8	3,205.0	0.00	471,314.44	783,480.18	
12,000.0	90.00	359.50	8,900.0	5,496.0	3,304.8	-28.7	3,305.0	0.00	471,414.44	783,479.32	
12,100.0	90.00	359.50	8,900.0	5,496.0	3,404.8	-29.6	3,405.0	0.00	471,514.44	783,478.45	
12,200.0	90.00	359.50	8,900.0	5,496.0	3,504.8	-30.4	3,505.0	0.00	471,614.43	783,477.58	
12,300.0	90.00	359.50	8,900.0	5,496.0	3,604.8	-31.3	3,605.0	0.00	471,714.43	783,476.71	
12,400.0	90.00	359.50	8,900.0	5,496.0	3,704.8	-32.2	3,705.0	0.00	471,814.43	783,475.84	
12,500.0	90.00	359.50	8,900.0	5,496.0	3,804.8	-33.0	3,805.0	0.00	471,914.42	783,474.98	
12,600.0	90.00	359.50	8,900.0	5,496.0	3,904.8	-33.9	3,905.0	0.00	472,014.42	783,474.11	
12,700.0	90.00	359.50	8,900.0	5,496.0	4,004.8	-34.8	4,005.0	0.00	472,114.41	783,473.24	
12,800.0	90.00	359.50	8,900.0	5,496.0	4,104.8	-35.6	4,105.0	0.00	472,214.41	783,472.37	
12,900.0	90.00	359.50	8,900.0	5,496.0	4,204.8	-36.5	4,205.0	0.00	472,314.41	783,471.51	
13,000.0	90.00	359.50	8,900.0	5,496.0	4,304.8	-37.4	4,305.0	0.00	472,414.40	783,470.64	
13,100.0	90.00	359.50	8,900.0	5,496.0	4,404.8	-38.2	4,405.0	0.00	472,514.40	783,469.77	
13,200.0	90.00	359.50	8,900.0	5,496.0	4,504.8	-39.1	4,505.0	0.00	472,614.40	783,468.90	
13,300.0	90.00	359.50	8,900.0	5,496.0	4,604.8	-40.0	4,605.0	0.00	472,714.39	783,468.03	
13,315.4	90.00	359.50	8,900.0	5,496.0	4,620.2	-40.1	4,620.4	0.00	472,729.80	783,467.90	

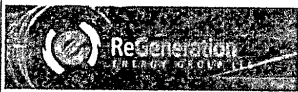


Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	ReGeneration Energy	Local Co-ordinate Reference:	Well #1H:
Project:	Lea County	TVD Reference:	KB = 17 @ 3404.0usit (Original Well Elev)
Site:	Lepakast State Com	MD Reference:	KB = 17 @ 3404.0usit (Original Well Elev)
Well:	#1H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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PROJECT DETAILS: Lea 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



Azimuths to Grid North
True North: -0.49°
Magnetic North: 6.93°

Magnetic Field
Strength: 48637.3snT
Dip Angle: 60.28°
Date: 2/29/2012
Model: IGRF200510



A Schlumberger Company

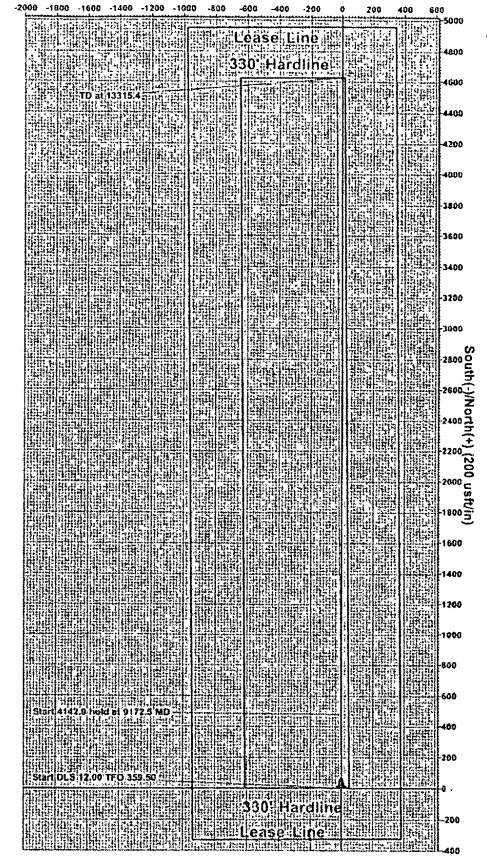
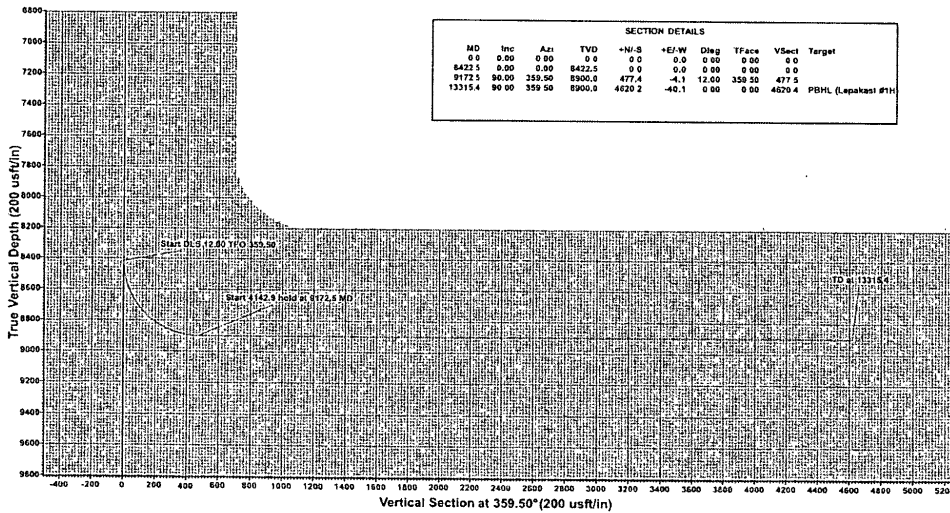
West(-)/East(+) (200 usft/in)

Project: Lea County
Site: Lepakast State Com
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/OH)

WELL DETAILS: #1H						
Ground Elevation: 1387.0						
RKB Elevation: KB +17 @ 3464 Bus/H (Original Well Elev)						
Rig Name: Original Well Elev						
+N-S	+E-W	Northing	Eastings	Latitude	Longitude	Slot
0 0	0 0	488109 800	783508 000	32°17' 1.022 N	103°24' 5 7.448 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Eastings	Shape
PBHL (Lepakast #1H)	8900 0	4620.2	-40 1	472729 800	783467.900	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dip	TFace	Vsect	Target
0 0	0.00	0 00	0 0	0 0	0 0	0 00	0 00	0 0	
8422.5	0.00	0 00	8422.5	0 0	0 0	0 00	0 00	0 0	
9172.5	90.00	359.50	8900.0	477.4	-4.1	12.00	350 30	477.5	
13315.4	90 00	359 50	8900.0	4620.2	-40.1	0 00	0 00	4620.4	PBHL (Lepakast #1H)



Plan: Plan #1 (#1H/OH)
Created By: Sam Bliffe Date: 10/28, February 29 2012
Checked: Date: