

07/16/2012

To Whom It May Concern:

As a representative of Wellpath Energy Services LLC. I certify that to the best of my knowledge all the survey data contained in the packet for the well listed below is accurate and true.

Lime Rock Resources
Well: Marathon "25" State # 34 30-015-40124
Lease: Eddy County

Thank You,

A handwritten signature in cursive script, appearing to read 'Adam Jimenez'.

Adam Jimenez
Senior MWD Engineer
Wellpath Energy Services LLC

OK



LIME ROCK RESOURCES

EDDY COUNTY, NM (NAD 27)

SEC. 25 T17S RGE. 28E

MARATHON "25" STATE #34

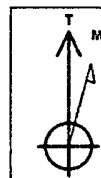
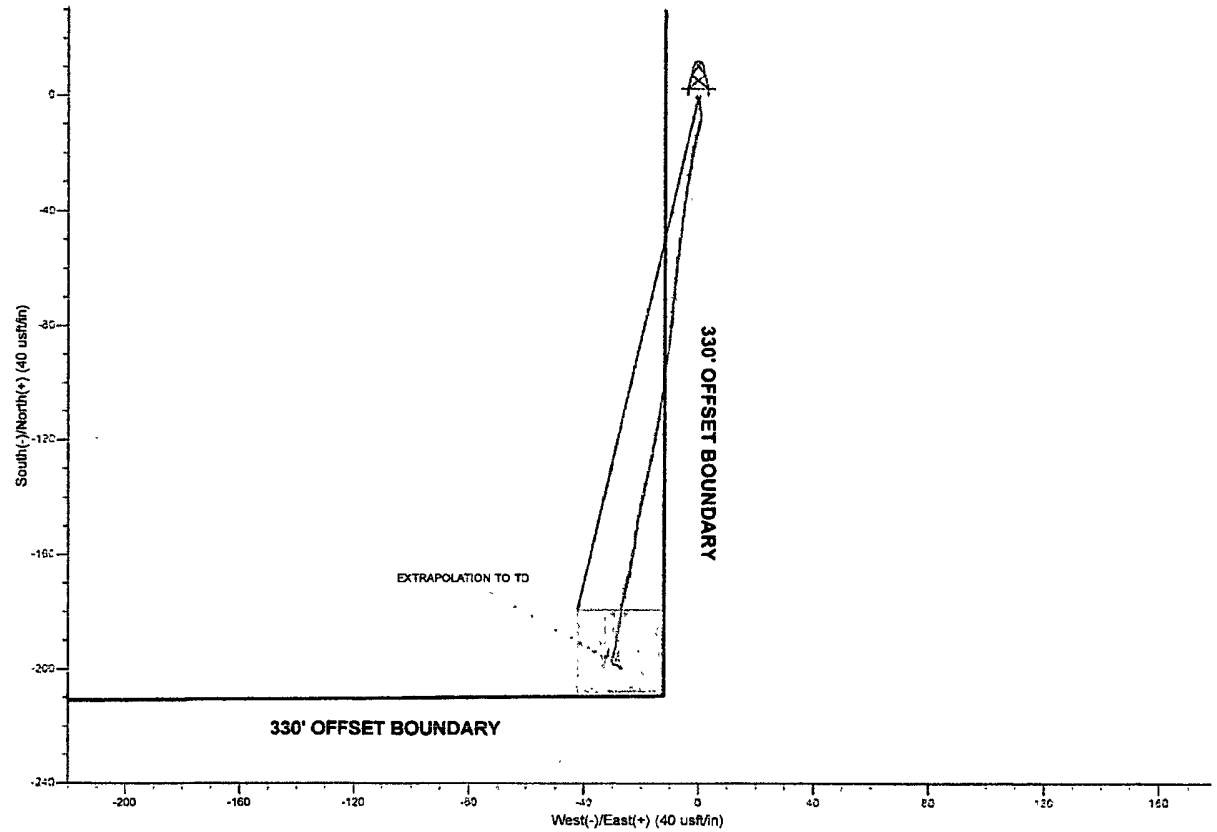
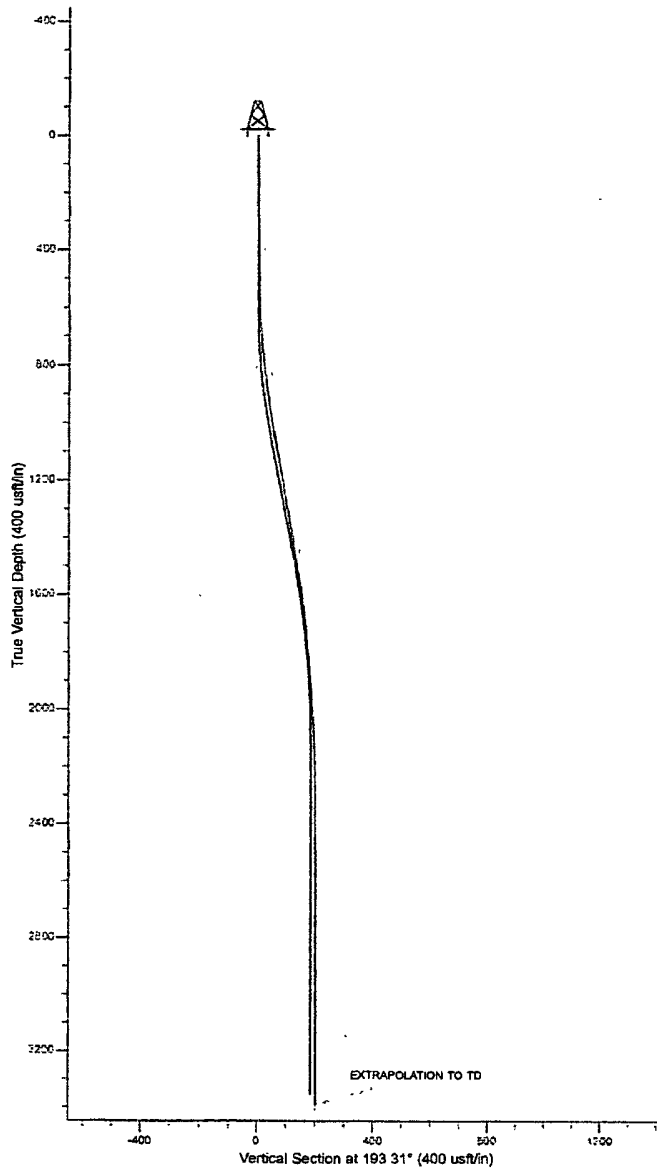
ORIGINAL WELLBORE

16 July, 2012

Survey: FINAL SURVEYS



Project: EDDY COUNTY, NM (NAD 27)
 Site: SEC. 25 T17S RGE. 28E
 Well: MARATHON "25" STATE #34
 Wellbore: ORIGINAL WELLBORE
 Design: FINAL SURVEYS



Azimuths to True North
 Magnetic North: 7.80°
 Magnetic Field
 Strength: 48831.5 nT
 Dip Angle: 60.61°
 Date: 11/03/2012
 Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sct	Annotation
3391.7	3405.0	0.70	117.30	-199.0	-26.9	199.8	EXTRAPOLATION TO TD

Survey Report



Company:	LIME ROCK RESOURCES	Local Co-ordinate Reference:	Well MARATHON "25" STATE #34
Project:	EDDY COUNTY, NM (NAD 27)	TVD Reference:	KB @ 3694.0usft (UDI 22)
Site:	SEC. 25 T17S RGE. 28E	MD Reference:	KB @ 3694.0usft (UDI 22)
Well:	MARATHON "25" STATE #34	North Reference:	True
Wellbore:	ORIGINAL WELLBORE	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEYS	Database:	EDM_5000_1_7

Project	EDDY COUNTY, NM (NAD 27)		
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		Using geodetic scale factor

Site	SEC. 25 T17S RGE. 28E				
Site Position:		Northing:	659,033.21 usft	Latitude:	32° 48' 41.807 N
From:	Lat/Long	Easting:	561,039.02 usft	Longitude:	104° 8' 4.777 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.11 °

Well	MARATHON "25" STATE #34					
Well Position	+N/-S	0.0 usft	Northing:	659,033.21 usft	Latitude:	32° 48' 41.807 N
	+E/-W	0.0 usft	Easting:	561,039.02 usft	Longitude:	104° 8' 4.777 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,683.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/03/2012	7.80	60.61	48,831

Design	FINAL SURVEYS				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	193.31	

Survey Program	Date 16/07/2012		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
496.0	3,405.0	FINAL SURVEYS (ORIGINAL WELLBORI	MWD
			MWD - Standard

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	Subsea Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	3,694.0	0.0	0.0	0.0	0.00	0.00	0.00
496.0	1.10	171.60	496.0	3,198.0	-4.7	0.7	4.4	0.22	0.22	0.00
528.0	0.90	179.10	528.0	3,166.0	-5.3	0.7	5.0	0.75	-0.62	23.44
559.0	0.80	158.50	559.0	3,135.0	-5.7	0.8	5.4	1.03	-0.32	-66.45
591.0	1.10	182.80	591.0	3,103.0	-6.2	0.9	5.9	1.55	0.94	75.94
622.0	1.90	186.30	621.9	3,072.1	-7.0	0.8	6.7	2.60	2.58	11.29
654.0	2.60	189.90	653.9	3,040.1	-8.3	0.6	7.9	2.23	2.19	11.25
685.0	3.60	194.00	684.9	3,009.1	-9.9	0.3	9.6	3.30	3.23	13.23
716.0	4.70	192.20	715.8	2,978.2	-12.1	-0.2	11.8	3.57	3.55	-5.81
747.0	5.50	195.50	746.7	2,947.3	-14.8	-0.9	14.6	2.75	2.58	10.65
779.0	6.20	191.20	778.5	2,915.5	-17.9	-1.6	17.8	2.58	2.19	-13.44
810.0	6.80	189.30	809.3	2,884.7	-21.4	-2.3	21.3	2.06	1.94	-6.13
842.0	7.00	187.80	841.1	2,852.9	-25.2	-2.8	25.2	0.84	0.62	-4.69

Survey Report



Company: LIME ROCK RESOURCES
Project: EDDY COUNTY, NM (NAD 27)
Site: SEC. 25 T17S RGE. 28E
Well: MARATHON "25" STATE #34
Wellbore: ORIGINAL WELLBORE
Design: FINAL SURVEYS

Local Co-ordinate Reference: Well MARATHON "25" STATE #34
TVD Reference: KB @ 3694.0usft (UDI 22)
MD Reference: KB @ 3694.0usft (UDI 22)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM_5000_1_7

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
874.0	7.50	190.10	872.8	2,821.2	-29.2	-3.5	29.2	1.81	1.56	7.19
905.0	8.20	189.70	903.5	2,790.5	-33.4	-4.2	33.4	2.26	2.26	-1.29
937.0	8.80	187.90	935.2	2,758.8	-38.0	-4.9	38.1	2.05	1.87	-5.62
968.0	9.50	187.10	965.8	2,728.2	-42.9	-5.5	43.0	2.29	2.26	-2.58
1,000.0	9.80	187.00	997.3	2,696.7	-48.2	-6.2	48.4	0.94	0.94	-0.31
1,031.0	9.70	186.30	1,027.9	2,666.1	-53.5	-6.8	53.6	0.50	-0.32	-2.26
1,061.0	9.80	187.10	1,057.4	2,636.6	-58.5	-7.4	58.6	0.56	0.33	2.67
1,093.0	10.00	185.30	1,089.0	2,605.0	-64.0	-8.0	64.1	1.15	0.62	-5.62
1,124.0	10.20	185.10	1,119.5	2,574.5	-69.4	-8.5	69.5	0.66	0.65	-0.65
1,156.0	9.90	184.80	1,151.0	2,543.0	-74.9	-9.0	75.0	0.95	-0.94	-0.94
1,187.0	9.80	187.10	1,181.5	2,512.5	-80.2	-9.5	80.3	1.31	-0.32	7.42
1,219.0	10.00	187.20	1,213.1	2,480.9	-85.7	-10.2	85.7	0.63	0.62	0.31
1,250.0	9.80	187.70	1,243.6	2,450.4	-91.0	-10.9	91.0	0.70	-0.65	1.61
1,282.0	9.50	187.50	1,275.2	2,418.8	-96.3	-11.6	96.4	0.94	-0.94	-0.62
1,313.0	9.50	188.10	1,305.7	2,388.3	-101.4	-12.3	101.5	0.32	0.00	1.94
1,345.0	9.60	187.40	1,337.3	2,356.7	-106.6	-13.0	106.7	0.48	0.31	-2.19
1,376.0	9.60	189.70	1,367.8	2,326.2	-111.7	-13.8	111.9	1.24	0.00	7.42
1,408.0	10.20	191.40	1,399.4	2,294.6	-117.1	-14.8	117.4	2.09	1.87	5.31
1,439.0	9.90	191.20	1,429.9	2,264.1	-122.4	-15.9	122.8	0.97	-0.97	-0.65
1,471.0	9.50	192.30	1,461.4	2,232.6	-127.7	-17.0	128.2	1.38	-1.25	3.44
1,502.0	9.10	192.70	1,492.0	2,202.0	-132.6	-18.0	133.2	1.31	-1.29	1.29
1,534.0	8.90	192.20	1,523.6	2,170.4	-137.5	-19.1	138.2	0.67	-0.62	-1.56
1,565.0	8.70	191.50	1,554.3	2,139.7	-142.1	-20.1	142.9	0.73	-0.65	-2.26
1,597.0	8.10	190.50	1,585.9	2,108.1	-146.7	-21.0	147.6	1.93	-1.87	-3.12
1,628.0	7.60	187.20	1,616.6	2,077.4	-150.9	-21.6	151.8	2.17	-1.61	-10.65
1,660.0	7.40	188.10	1,648.4	2,045.6	-155.0	-22.2	156.0	0.72	-0.62	2.81
1,691.0	6.90	190.30	1,679.1	2,014.9	-158.9	-22.8	159.8	1.84	-1.61	7.10
1,723.0	6.20	191.00	1,710.9	1,983.1	-162.4	-23.5	163.5	2.20	-2.19	2.19
1,754.0	5.90	192.90	1,741.7	1,952.3	-165.6	-24.2	166.7	1.16	-0.97	6.13
1,785.0	5.60	192.30	1,772.6	1,921.4	-168.7	-24.8	169.9	0.99	-0.97	-1.94
1,817.0	4.90	195.30	1,804.5	1,889.5	-171.5	-25.5	172.8	2.35	-2.19	9.37
1,847.0	4.40	193.10	1,834.4	1,859.6	-173.9	-26.1	175.2	1.77	-1.67	-7.33
1,878.0	4.30	190.70	1,865.3	1,828.7	-176.2	-26.6	177.6	0.67	-0.32	-7.74
1,910.0	4.00	189.90	1,897.2	1,796.8	-178.4	-27.0	179.9	0.95	-0.94	-2.50
1,941.0	3.90	190.50	1,928.1	1,765.9	-180.5	-27.4	182.0	0.35	-0.32	1.94
1,972.0	3.90	186.60	1,959.0	1,735.0	-182.6	-27.7	184.1	0.86	0.00	-12.58
2,004.0	3.40	191.50	1,991.0	1,703.0	-184.6	-28.0	186.1	1.84	-1.56	15.31
2,035.0	3.00	190.50	2,021.9	1,672.1	-186.3	-28.4	187.9	1.30	-1.29	-3.23
2,067.0	2.70	189.30	2,053.9	1,640.1	-187.9	-28.6	189.5	0.96	-0.94	-3.75
2,099.0	2.80	183.40	2,085.8	1,608.2	-189.4	-28.8	191.0	0.94	0.31	-18.44
2,130.0	2.60	192.20	2,116.8	1,577.2	-190.9	-29.0	192.4	1.48	-0.65	28.39
2,161.0	2.00	194.70	2,147.8	1,546.2	-192.1	-29.3	193.7	1.96	-1.94	8.06
2,193.0	1.30	197.20	2,179.8	1,514.2	-193.0	-29.5	194.6	2.20	-2.19	7.81
2,224.0	0.70	169.70	2,210.8	1,483.2	-193.5	-29.6	195.1	2.43	-1.94	-88.71
2,256.0	0.50	201.20	2,242.8	1,451.2	-193.8	-29.6	195.4	1.18	-0.62	98.44
2,287.0	0.40	215.40	2,273.8	1,420.2	-194.0	-29.7	195.7	0.48	-0.32	45.81
2,382.0	0.10	276.90	2,368.8	1,325.2	-194.3	-30.0	196.0	0.38	-0.32	64.74
2,476.0	0.50	177.80	2,462.8	1,231.2	-194.7	-30.1	196.4	0.56	0.43	-105.43
2,571.0	0.10	188.50	2,557.8	1,136.2	-195.2	-30.1	196.9	0.42	-0.42	11.26
2,665.0	0.50	202.30	2,651.8	1,042.2	-195.6	-30.2	197.4	0.43	0.43	14.68
2,759.0	0.10	190.00	2,745.8	948.2	-196.1	-30.4	197.8	0.43	-0.43	-13.09
2,854.0	0.40	176.80	2,840.8	853.2	-196.5	-30.4	198.2	0.32	0.32	-13.89
2,948.0	0.20	168.20	2,934.8	759.2	-197.0	-30.3	198.7	0.22	-0.21	-9.15

Survey Report



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Project: EDDY COUNTY, NM (NAD 27)
Site: SEC. 25 T17S RGE. 28E
Well: MARATHON "25" STATE #34
Wellbore: ORIGINAL WELLBORE
Design: FINAL SURVEYS

Local Co-ordinate Reference: Well MARATHON "25" STATE #34
TVD Reference: KB @ 3694.0usft (UDI 22)
MD Reference: KB @ 3694.0usft (UDI 22)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM_5000_1_7

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,042.0	0.50	93.90	3,028.8	665.2	-197.2	-29.9	198.8	0.52	0.32	-79.04
3,136.0	0.60	118.90	3,122.7	571.3	-197.5	-29.1	198.9	0.27	0.11	26.60
3,230.0	0.60	125.60	3,216.7	477.3	-198.0	-28.2	199.2	0.07	0.00	7.13
3,325.0	0.40	136.70	3,311.7	382.3	-198.5	-27.6	199.5	0.23	-0.21	11.68
3,365.0	0.70	117.30	3,351.7	342.3	-198.7	-27.3	199.7	0.87	0.75	-48.50
EXTRAPOLATION TO TD										
3,405.0	0.70	117.30	3,391.7	302.3	-199.0	-26.9	199.8	0.00	0.00	0.00

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
BHL - MARATHON "2	0.00	0.00	3,354.6	-178.4	-42.2	658,854.79	560,997.17	32° 48' 40.042 N	104° 8' 5.271 W
- survey misses target center by 25.4usft at 3365.0usft MD (3351.7 TVD, -198.7 N, -27.3 E)									
- Rectangle (sides W30.0 H30.0 D0.0)									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
3,405.0	3,391.7	-199.0	-26.9	EXTRAPOLATION TO TD

Checked By:

Approved By:

Date:

07/16/2012