

Lime Rock Resources

**Eddy Co, NM
Eagle 34A Fed
Eagle 34A Fed #82**

Original Hole

Design: surveys

Standard Survey Report

16 April, 2018

The logo for ACCEL Directional features a stylized graphic of a compass rose or directional indicator to the left of the word "ACCEL" in a bold, sans-serif font. Below "ACCEL" is the word "Directional" in a bold, italicized, sans-serif font.

Windows User
Survey Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Eagle 34A Fed #82
Project:	Eddy Co, NM	TVD Reference:	12.8' KB @ 3553.60usft (United 33)
Site:	Eagle 34A Fed	MD Reference:	12.8' KB @ 3553.60usft (United 33)
Well:	Eagle 34A Fed #82	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	surveys	Database:	Accel Server EDM

Project	Eddy Co, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Eagle 34A Fed		
Site Position:		Northing:	653,597.24 usft
From:	Map	Easting:	563,483.63 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.796749
		Longitude:	-104.261262
		Grid Convergence:	0.04 °

Well	Eagle 34A Fed #82		
Well Position	+N-S	0.00 usft	Northing:
	+E-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.796749
		Longitude:	-104.261262
		Ground Level:	3,540.80 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	3/27/2018	7.23
		Dip Angle	60.47
		Field Strength	48,122.30551758

Design	surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
		Direction	359.116
		(°)	

Survey Program	Date 4/16/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
365.00	4,694.00	accel mwd (Original Hole)	MWD+IGRF
			Description
			OWSG MWD + IGRF or WMM

Survey										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
365.00	0.10	178.800	365.00	-0.32	0.01	-0.32	0.03	0.03	0.00	
459.00	0.30	198.200	459.00	-0.63	-0.07	-0.63	0.22	0.21	20.64	
524.00	0.60	6.800	524.00	-0.46	-0.08	-0.46	1.38	0.46	259.38	
587.00	2.40	9.400	586.97	1.17	0.17	1.17	2.86	2.86	4.13	
683.00	3.20	15.400	682.86	5.74	1.21	5.72	0.89	0.83	6.25	
780.00	4.00	12.600	779.67	11.65	2.67	11.61	0.84	0.82	-2.89	
844.00	3.60	9.700	843.53	15.81	3.50	15.75	0.69	-0.63	-4.53	
907.00	3.50	351.000	906.41	19.66	3.53	19.60	1.84	-0.18	-29.68	
1,004.00	3.30	346.400	1,003.24	25.30	2.41	25.26	0.35	-0.21	-4.74	

Windows User
Survey Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Eagle 34A Fed #82
Project:	Eddy Co, NM	TVD Reference:	12.8' KB @ 3553.60usft (United 33)
Site:	Eagle 34A Fed	MD Reference:	12.8' KB @ 3553.60usft (United 33)
Well:	Eagle 34A Fed #82	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	surveys	Database:	Accel Server EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,100.00	2.80	344.700	1,099.10	30.24	1.14	30.22	0.53	-0.52	-1.77	
1,196.00	3.80	349.200	1,194.94	35.63	-0.08	35.63	1.08	1.04	4.69	
1,292.00	4.80	355.300	1,290.67	42.76	-1.00	42.77	1.14	1.04	6.35	
1,387.00	4.60	352.400	1,385.35	50.49	-1.83	50.52	0.33	-0.21	-3.05	
1,483.00	4.50	352.900	1,481.05	58.05	-2.80	58.08	0.11	-0.10	0.52	
1,580.00	4.20	349.800	1,577.77	65.32	-3.90	65.37	0.39	-0.31	-3.20	
1,676.00	4.50	349.800	1,673.49	72.49	-5.19	72.56	0.31	0.31	0.00	
1,772.00	4.50	5.900	1,769.20	79.94	-5.47	80.01	1.31	0.00	16.77	
1,867.00	4.50	6.200	1,863.91	87.35	-4.69	87.41	0.02	0.00	0.32	
1,963.00	4.30	9.900	1,959.62	94.64	-3.66	94.69	0.36	-0.21	3.85	
2,060.00	4.50	11.800	2,056.34	101.95	-2.26	101.97	0.26	0.21	1.96	
2,156.00	4.40	10.100	2,152.05	109.26	-0.84	109.26	0.17	-0.10	-1.77	
2,251.00	4.40	9.900	2,246.77	116.44	0.42	116.42	0.02	0.00	-0.21	
2,347.00	4.40	11.300	2,342.49	123.68	1.78	123.63	0.11	0.00	1.46	
2,443.00	4.40	9.500	2,438.20	130.92	3.11	130.86	0.14	0.00	-1.88	
2,538.00	3.90	359.700	2,532.95	137.74	3.69	137.67	0.91	-0.53	-10.32	
2,634.00	4.00	359.900	2,628.73	144.36	3.67	144.28	0.11	0.10	0.21	
2,730.00	3.50	2.700	2,724.52	150.63	3.80	150.56	0.55	-0.52	2.92	
2,826.00	1.00	318.800	2,820.44	154.19	3.39	154.12	2.98	-2.60	-45.73	
2,922.00	1.10	227.500	2,916.43	154.20	2.16	154.15	1.57	0.10	-95.10	
3,018.00	0.90	215.100	3,012.42	152.96	1.04	152.92	0.31	-0.21	-12.92	
3,114.00	1.00	226.100	3,108.41	151.76	0.01	151.74	0.22	0.10	11.46	
3,210.00	0.90	225.900	3,204.39	150.66	-1.14	150.66	0.10	-0.10	-0.21	
3,306.00	0.80	242.600	3,300.38	149.82	-2.28	149.84	0.28	-0.10	17.40	
3,402.00	0.40	279.500	3,396.38	149.57	-3.20	149.60	0.56	-0.42	38.44	
3,497.00	0.60	357.600	3,491.37	150.12	-3.55	150.16	0.68	0.21	82.21	
3,593.00	0.40	358.300	3,587.37	150.96	-3.58	151.00	0.21	-0.21	0.73	
3,689.00	0.20	341.300	3,683.37	151.45	-3.64	151.49	0.23	-0.21	-17.71	
3,785.00	0.30	330.100	3,779.37	151.83	-3.82	151.87	0.12	0.10	-11.67	
3,880.00	0.10	30.700	3,874.37	152.12	-3.90	152.16	0.28	-0.21	63.79	
3,977.00	0.20	16.000	3,971.37	152.35	-3.81	152.39	0.11	0.10	-15.15	
4,073.00	0.20	53.900	4,067.37	152.81	-3.63	152.65	0.14	0.00	39.48	
4,168.00	0.30	36.100	4,162.37	152.91	-3.35	152.94	0.13	0.11	-18.74	
4,265.00	0.20	330.700	4,259.36	153.26	-3.29	153.29	0.29	-0.10	-67.42	
4,361.00	0.30	37.000	4,355.36	153.81	-3.22	153.84	0.30	0.10	69.06	
4,456.00	0.30	351.500	4,450.36	154.05	-3.10	154.08	0.24	0.00	-47.89	
4,552.00	0.30	17.100	4,546.36	154.54	-3.07	154.57	0.14	0.00	26.67	
4,694.00	0.30	17.100	4,688.36	155.25	-2.85	155.28	0.00	0.00	0.00	
Projected to TD @ 4694.00' MD, 0.30°, 17.100° Azi										

Windows User
Survey Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Eagle 34A Fed #82
Project:	Eddy Co, NM	TVD Reference:	12.8' KB @ 3553.60usft (United 33)
Site:	Eagle 34A Fed	MD Reference:	12.8' KB @ 3553.60usft (United 33)
Well:	Eagle 34A Fed #82	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	surveys	Database:	Accel Server EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,694.00	4,688.36	155.25	-2.85	Projected to TD @ 4694.00' MD, 0.30°, 17.100° Azi

Checked By: _____ Approved By: _____ Date: _____