

Results of Directional Survey

API number:	30-025-40727		
OGRID:		Operator:	DIAMONDBACK RESOURCES LLC
		Property:	MONGOOSE FEE # 1H

surface	ULSTR:	L	01	T	19S	R	34E
				2310	FSL	380	FWL

BH Loc	ULSTR:	I	01	T	19S	R	34E
14750	MD	10783.0	TVD	2066	FSL	482	FEL
						4798	FWL

Top Perf/OH	ULSTR:	L	01	T	19S	R	34E
10995	MD	10717.9	TVD	1928	FSL	1047	FWL

Bot Perf/OH	ULSTR:	I	01	T	19S	R	34E
14449	MD	10782.5	TVD	2052	FSL	782	FEL
						4498	FWL

	MD	N/S	E/W	VD
	10949	-52.80	542.50	10708.6
TOP PERFS/OH	10995	-51.65	587.49	10717.94
	10981	-52.00	573.80	10715.10
	14403	70.30	3991.60	10783.20
BOT PERFS/OH	14449	72.12	4037.55	10782.53
	14499	74.10	4087.50	10781.80

NEXT TO LAST	14677	82.30	4265.30	10752.30
LAST READING	14750	85.70	4338.30	10783.00
TD	14750	85.70	4338.30	10783.00

Surface Location	1980	FS	460	FW
Projected BHL	2066	FS	4798	FW
Location of				
Top Perfs/OH	1928	FS	1047	FW
Bottom Perfs/OH	2052	FS	4498	FW

SUMMARY of Subsurface Locations

Surface Location	L-01-19S-34E	1980	FS	460	FW	Vert. Depth
Top Perfs/OH	L-01-19S-34E	1928	FS	1047	FW	10717.94
Bottom Perfs/OH	I-01-19S-34E	2052	FS	4498	FW	10782.53
Projected TD	I-01-19S-34E	2066	FS	4798	FW	10783.00

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Diamondback Resources LLC

Lea County, NM (NAD 27)

Mongoose Fee

#1H

ST01

SUR: L-01-19s-34e, 1980/S & 460/W
BHL: I-01-19sw-34e, 2066/S & 4798/W
API # 30-025-40727

Design: ST01

Pathfinder X&Y Report

22 October, 2012



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Pathfinder

Pathfinder X&Y Report

Company:	Diamondback Resources LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27)	TVD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Site:	Mongoose Fee	MD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Project		Lea 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		

Site		Mongoose Fee			
Site Position:		Northing:		615,085.200	usft
From:	Map	Easting:		750,025.400	usft
Position Uncertainty:		0.0	usft	Slot Radius:	
				13-3/16	"
				Latitude:	32.688336
				Longitude:	-103.520668
				Grid Convergence:	0.44 °

Well		#1H				
Well Position	+N/-S	0.0 usft	Northing:	614,756.600 usft	Latitude:	32.687431
	+E/-W	0.0 usft	Easting:	750,107.200 usft	Longitude:	-103.520410
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,965.0 usft

Wellbore		ST01			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/5/2012	7.43	60.62	48,806

Design:	ST01			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 9,892.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.41



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Design:	ST01	Database:	EDM 5000.1 Single User Db

Survey Program		Date	10/22/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
137.0	9,892.0	MWD #1 (OH)	MWD	MWD - Standard	
9,934.0	14,750.0	MWD #1 (ST01)	MWD	MWD - Standard	

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	-3,987.0	0.0	0.0	0.0	0.00	614,756.60	750,107.20	
137.0	0.50	63.30	137.0	-3,850.0	0.3	0.5	0.5	0.36	614,756.87	750,107.73	
196.0	0.90	83.80	196.0	-3,791.0	0.4	1.2	1.2	0.79	614,757.03	750,108.42	
257.0	1.40	88.00	257.0	-3,730.0	0.5	2.4	2.5	0.83	614,757.11	750,109.65	
318.0	1.70	86.90	318.0	-3,669.0	0.6	4.1	4.1	0.49	614,757.19	750,111.29	
379.0	2.00	93.10	378.9	-3,608.1	0.6	6.1	6.1	0.59	614,757.18	750,113.26	
442.0	2.20	94.70	441.9	-3,545.1	0.4	8.4	8.4	0.33	614,757.02	750,115.56	
537.0	2.50	97.50	536.8	-3,450.2	0.0	12.2	12.2	0.34	614,756.60	750,119.43	
633.0	2.70	97.10	632.7	-3,354.3	-0.6	16.6	16.5	0.21	614,756.05	750,123.75	
728.0	2.00	102.70	727.6	-3,259.4	-1.2	20.4	20.4	0.77	614,755.41	750,127.59	
823.0	2.20	104.20	822.6	-3,164.4	-2.0	23.8	23.8	0.22	614,754.59	750,130.98	
918.0	1.50	123.50	917.5	-3,069.5	-3.1	26.6	26.5	0.98	614,753.46	750,133.78	
1,013.0	1.60	134.30	1,012.5	-2,974.5	-4.8	28.6	28.5	0.32	614,751.85	750,135.77	
1,109.0	1.40	149.70	1,108.4	-2,878.6	-6.7	30.1	30.0	0.47	614,749.90	750,137.32	
1,204.0	0.40	262.90	1,203.4	-2,783.6	-7.7	30.4	30.3	1.68	614,748.86	750,137.57	
1,300.0	1.10	303.70	1,299.4	-2,687.6	-7.3	29.3	29.2	0.87	614,749.33	750,136.48	
1,395.0	2.10	313.60	1,394.4	-2,592.6	-5.6	27.3	27.2	1.09	614,751.03	750,134.46	
1,490.0	2.20	321.80	1,489.3	-2,497.7	-2.9	24.9	24.8	0.34	614,753.67	750,132.07	
1,586.0	0.80	352.40	1,585.3	-2,401.7	-0.8	23.6	23.6	1.63	614,755.78	750,130.84	
1,681.0	0.30	20.50	1,680.3	-2,306.7	0.1	23.6	23.6	0.58	614,756.67	750,130.84	
1,776.0	0.20	319.90	1,775.3	-2,211.7	0.4	23.6	23.6	0.28	614,757.03	750,130.82	



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Pathfinder X&Y Report

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Project:	Lea County, NM (NAD 27)	TVD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Site:	Mongoose Fee	MD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
1,871.0	0.20	312.70	1,870.3	-2,116.7	0.7	23.4	23.4	0.03	614,757.27	750,130.59	
1,966.0	0.30	284.50	1,965.3	-2,021.7	0.8	23.0	23.0	0.16	614,757.44	750,130.23	
2,061.0	0.20	321.00	2,060.3	-1,926.7	1.0	22.7	22.7	0.19	614,757.63	750,129.88	
2,157.0	0.20	297.00	2,156.3	-1,830.7	1.2	22.4	22.4	0.09	614,757.84	750,129.63	
2,252.0	0.20	12.80	2,251.3	-1,735.7	1.5	22.3	22.3	0.26	614,758.08	750,129.52	
2,347.0	0.20	30.20	2,346.3	-1,640.7	1.8	22.4	22.5	0.06	614,758.38	750,129.64	
2,442.0	0.30	19.00	2,441.3	-1,545.7	2.2	22.6	22.6	0.12	614,758.76	750,129.80	
2,538.0	0.30	357.30	2,537.3	-1,449.7	2.6	22.7	22.7	0.12	614,759.25	750,129.87	
2,633.0	0.40	348.00	2,632.3	-1,354.7	3.2	22.6	22.6	0.12	614,759.82	750,129.79	
2,728.0	0.50	357.90	2,727.3	-1,259.7	4.0	22.5	22.5	0.13	614,760.56	750,129.71	
2,823.0	0.60	356.10	2,822.3	-1,164.7	4.9	22.5	22.5	0.11	614,761.47	750,129.66	
2,919.0	0.70	2.60	2,918.3	-1,068.7	6.0	22.5	22.5	0.13	614,762.56	750,129.65	
3,014.0	0.80	9.00	3,013.3	-973.7	7.2	22.6	22.7	0.14	614,763.79	750,129.78	
3,109.0	0.90	8.20	3,108.2	-878.8	8.6	22.8	22.9	0.11	614,765.19	750,129.99	
3,204.0	1.00	12.30	3,203.2	-783.8	10.1	23.1	23.2	0.13	614,766.74	750,130.27	
3,300.0	1.20	15.10	3,299.2	-687.8	11.9	23.5	23.6	0.22	614,768.52	750,130.71	
3,395.0	0.60	24.90	3,394.2	-592.8	13.3	24.0	24.1	0.65	614,769.94	750,131.18	
3,490.0	0.40	15.60	3,489.2	-497.8	14.1	24.3	24.4	0.23	614,770.71	750,131.48	
3,614.0	0.50	16.90	3,613.2	-373.8	15.0	24.6	24.7	0.08	614,771.64	750,131.76	
3,709.0	0.60	28.00	3,708.2	-278.8	15.9	24.9	25.1	0.15	614,772.48	750,132.11	
3,804.0	0.70	159.90	3,803.2	-183.8	15.8	25.3	25.5	1.25	614,772.37	750,132.54	
3,900.0	0.70	141.30	3,899.2	-87.8	14.8	25.9	26.1	0.24	614,771.36	750,133.11	
3,995.0	1.30	199.60	3,994.2	7.2	13.3	25.9	26.0	1.16	614,769.89	750,133.11	
4,090.0	1.20	189.10	4,089.1	102.1	11.3	25.4	25.5	0.26	614,767.90	750,132.59	
4,185.0	1.20	189.00	4,184.1	197.1	9.3	25.1	25.2	0.00	614,765.93	750,132.28	
4,280.0	1.50	197.50	4,279.1	292.1	7.2	24.6	24.6	0.38	614,763.76	750,131.75	
4,375.0	0.50	285.70	4,374.1	387.1	6.1	23.8	23.8	1.65	614,762.69	750,130.98	



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Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
4,470.0	0.50	295.50	4,469.1	482.1	6.4	23.0	23.1	0.09	614,762.98	750,130.20	
4,565.0	0.30	289.90	4,564.1	577.1	6.6	22.4	22.5	0.21	614,763.24	750,129.60	
4,660.0	0.30	298.10	4,659.1	672.1	6.8	21.9	22.0	0.05	614,763.45	750,129.14	
4,755.0	0.20	253.80	4,754.1	767.1	6.9	21.6	21.6	0.22	614,763.52	750,128.76	
4,850.0	0.10	187.20	4,849.1	862.1	6.8	21.4	21.5	0.19	614,763.39	750,128.59	
4,945.0	0.30	140.60	4,944.1	957.1	6.5	21.5	21.6	0.26	614,763.11	750,128.74	
5,041.0	0.20	150.10	5,040.1	1,053.1	6.2	21.8	21.8	0.11	614,762.77	750,128.99	
5,136.0	0.20	189.10	5,135.1	1,148.1	5.9	21.8	21.9	0.14	614,762.47	750,129.04	
5,231.0	0.40	186.00	5,230.1	1,243.1	5.4	21.8	21.8	0.21	614,761.97	750,128.98	
5,326.0	0.40	175.10	5,325.1	1,338.1	4.7	21.8	21.8	0.08	614,761.31	750,128.97	
5,421.0	0.50	146.10	5,420.1	1,433.1	4.0	22.0	22.1	0.26	614,760.64	750,129.23	
5,517.0	0.40	159.40	5,516.1	1,529.1	3.4	22.4	22.4	0.15	614,759.98	750,129.59	
5,611.0	0.60	145.20	5,610.1	1,623.1	2.7	22.8	22.8	0.25	614,759.27	750,129.98	
5,707.0	0.60	138.90	5,706.1	1,719.1	1.9	23.4	23.4	0.07	614,758.47	750,130.60	
5,802.0	0.60	134.40	5,801.1	1,814.1	1.2	24.1	24.1	0.05	614,757.75	750,131.28	
5,897.0	0.60	123.60	5,896.0	1,909.0	0.5	24.9	24.9	0.12	614,757.13	750,132.05	
5,992.0	0.90	102.50	5,991.0	2,004.0	0.1	26.0	26.0	0.42	614,756.69	750,133.19	
6,087.0	0.70	213.30	6,086.0	2,099.0	-0.6	26.4	26.4	1.39	614,756.04	750,133.60	
6,182.0	0.80	217.30	6,181.0	2,194.0	-1.6	25.7	25.7	0.12	614,755.03	750,132.88	
6,277.0	0.90	215.10	6,276.0	2,289.0	-2.7	24.9	24.8	0.11	614,753.89	750,132.05	
6,372.0	0.90	213.90	6,371.0	2,384.0	-3.9	24.0	24.0	0.02	614,752.66	750,131.21	
6,467.0	0.90	210.70	6,466.0	2,479.0	-5.2	23.2	23.2	0.05	614,751.40	750,130.41	
6,562.0	0.50	202.80	6,561.0	2,574.0	-6.2	22.7	22.6	0.43	614,750.38	750,129.87	
6,657.0	0.50	209.60	6,656.0	2,669.0	-7.0	22.3	22.2	0.06	614,749.64	750,129.50	
6,753.0	0.40	220.90	6,752.0	2,765.0	-7.6	21.9	21.8	0.14	614,749.02	750,129.08	
6,848.0	0.40	234.00	6,847.0	2,860.0	-8.0	21.4	21.3	0.10	614,748.57	750,128.59	
6,943.0	0.30	237.40	6,942.0	2,955.0	-8.4	20.9	20.8	0.11	614,748.25	750,128.11	



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7,038.0	0.50	227.20	7,037.0	3,050.0	-8.8	20.4	20.3	0.22	614,747.83	750,127.60	
7,134.0	0.40	212.40	7,133.0	3,146.0	-9.3	19.9	19.8	0.16	614,747.26	750,127.11	
7,229.0	0.40	212.10	7,228.0	3,241.0	-9.9	19.6	19.5	0.00	614,746.70	750,126.76	
7,324.0	0.50	196.00	7,323.0	3,336.0	-10.6	19.3	19.2	0.17	614,746.02	750,126.47	
7,419.0	0.50	203.00	7,418.0	3,431.0	-11.4	19.0	18.9	0.06	614,745.24	750,126.19	
7,514.0	0.40	182.90	7,513.0	3,526.0	-12.1	18.8	18.7	0.20	614,744.53	750,126.01	
7,610.0	0.40	196.70	7,609.0	3,622.0	-12.7	18.7	18.6	0.10	614,743.87	750,125.90	
7,705.0	0.20	186.90	7,704.0	3,717.0	-13.2	18.6	18.4	0.22	614,743.39	750,125.79	
7,800.0	0.30	174.30	7,799.0	3,812.0	-13.6	18.6	18.5	0.12	614,742.98	750,125.79	
7,895.0	0.30	121.40	7,893.9	3,906.9	-14.0	18.8	18.7	0.28	614,742.60	750,126.03	
7,990.0	0.30	118.80	7,988.9	4,001.9	-14.2	19.3	19.1	0.01	614,742.35	750,126.46	
8,085.0	0.30	132.90	8,083.9	4,096.9	-14.5	19.7	19.5	0.08	614,742.06	750,126.86	
8,181.0	0.40	122.60	8,179.9	4,192.9	-14.9	20.1	20.0	0.12	614,741.71	750,127.32	
8,276.0	0.20	121.00	8,274.9	4,287.9	-15.2	20.5	20.4	0.21	614,741.45	750,127.75	
8,371.0	0.30	77.30	8,369.9	4,382.9	-15.2	20.9	20.8	0.22	614,741.42	750,128.13	
8,466.0	0.40	96.60	8,464.9	4,477.9	-15.2	21.5	21.3	0.16	614,741.43	750,128.70	
8,561.0	0.60	102.00	8,559.9	4,572.9	-15.3	22.3	22.2	0.22	614,741.29	750,129.52	
8,656.0	0.50	110.50	8,654.9	4,667.9	-15.6	23.2	23.0	0.14	614,741.04	750,130.39	
8,751.0	0.40	101.00	8,749.9	4,762.9	-15.8	23.9	23.7	0.13	614,740.84	750,131.11	
8,846.0	0.40	121.40	8,844.9	4,857.9	-16.0	24.5	24.4	0.15	614,740.60	750,131.72	
8,941.0	0.30	8.00	8,939.9	4,952.9	-15.9	24.8	24.7	0.62	614,740.67	750,132.03	
9,036.0	0.60	339.30	9,034.9	5,047.9	-15.2	24.7	24.5	0.39	614,741.38	750,131.89	
9,078.0	0.60	337.00	9,076.9	5,089.9	-14.8	24.5	24.4	0.06	614,741.79	750,131.73	
9,226.0	0.50	327.20	9,224.9	5,237.9	-13.6	23.9	23.7	0.09	614,743.05	750,131.08	
9,322.0	0.60	322.40	9,320.9	5,333.9	-12.8	23.3	23.2	0.11	614,743.80	750,130.54	
9,417.0	0.70	313.70	9,415.9	5,428.9	-12.0	22.6	22.5	0.15	614,744.59	750,129.82	
9,512.0	0.50	297.70	9,510.9	5,523.9	-11.4	21.8	21.7	0.27	614,745.19	750,129.03	



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Pathfinder X&Y Report

Company:	Diamondback Resources LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27)	TVD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Site:	Mongoose Fee	MD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
9,607.0	0.60	309.10	9,605.9	5,618.9	-10.9	21.1	21.0	0.16	614,745.69	750,128.28	
9,702.0	1.20	343.60	9,700.9	5,713.9	-9.6	20.4	20.3	0.82	614,746.96	750,127.61	
9,797.0	1.10	356.80	9,795.9	5,808.9	-7.8	20.1	20.0	0.30	614,748.83	750,127.28	
9,892.0	1.10	337.00	9,890.8	5,903.8	-6.0	19.7	19.6	0.40	614,750.58	750,126.87	
9,934.0	1.14	328.68	9,932.8	5,945.8	-5.3	19.3	19.2	0.40	614,751.30	750,126.50	
9,966.0	0.88	320.51	9,964.8	5,977.8	-4.8	19.0	18.9	0.93	614,751.77	750,126.18	
9,997.0	0.44	91.46	9,995.8	6,008.8	-4.7	18.9	18.9	3.92	614,751.95	750,126.14	
10,029.0	3.17	111.77	10,027.8	6,040.8	-5.0	19.9	19.8	8.63	614,751.62	750,127.09	
KOP - 10029.0 'MD, 10027.8 'TVD, -5.0 'N, 19.9 'E											
10,061.0	7.12	117.13	10,059.7	6,072.7	-6.2	22.5	22.4	12.42	614,750.38	750,129.68	
10,093.0	9.50	118.89	10,091.3	6,104.3	-8.4	26.6	26.5	7.48	614,748.20	750,133.75	
10,124.0	11.43	117.74	10,121.8	6,134.8	-11.1	31.5	31.4	6.26	614,745.54	750,138.71	
10,156.0	13.45	115.46	10,153.1	6,166.1	-14.1	37.7	37.5	6.50	614,742.46	750,144.88	
10,188.0	16.71	113.70	10,184.0	6,197.0	-17.6	45.3	45.1	10.29	614,739.01	750,152.46	
10,219.0	19.87	113.79	10,213.4	6,226.4	-21.5	54.2	53.9	10.19	614,735.09	750,161.36	
10,251.0	22.07	113.17	10,243.3	6,256.3	-26.1	64.7	64.4	6.91	614,730.53	750,171.86	
10,283.0	23.83	112.21	10,272.7	6,285.7	-30.9	76.2	75.9	5.62	614,725.72	750,183.38	
10,315.0	25.15	110.80	10,301.9	6,314.9	-35.7	88.5	88.1	4.51	614,720.87	750,195.72	
10,347.0	27.08	108.34	10,330.6	6,343.6	-40.4	101.8	101.4	6.91	614,716.16	750,208.99	
10,378.0	29.02	106.14	10,358.0	6,371.0	-44.8	115.7	115.2	7.09	614,711.85	750,222.91	
10,410.0	29.46	104.47	10,385.9	6,398.9	-48.9	130.8	130.3	2.90	614,707.72	750,237.99	
10,442.0	31.83	101.04	10,413.4	6,426.4	-52.5	146.7	146.1	9.20	614,704.14	750,253.89	
10,473.0	34.47	97.35	10,439.4	6,452.4	-55.1	163.4	162.9	10.72	614,701.45	750,270.62	
10,505.0	37.02	94.71	10,465.3	6,478.3	-57.1	182.0	181.4	9.31	614,699.50	750,289.21	
10,537.0	39.04	91.55	10,490.5	6,503.5	-58.2	201.7	201.1	8.77	614,698.44	750,308.89	
10,568.0	41.50	90.06	10,514.2	6,527.2	-58.4	221.7	221.1	8.52	614,698.16	750,328.92	
10,600.0	44.41	90.41	10,537.6	6,550.6	-58.5	243.5	242.9	9.12	614,698.07	750,350.72	



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Pathfinder
Pathfinder X&Y Report

Company:	Diamondback Resources LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27)	TVD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Site:	Mongoose Fee	MD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	D*Leg (°/100usft)	Northing (usft)	Easting (usft)	
10,632.0	46.78	90.32	10,560.0	6,573.0	-58.7	266.4	265.8	7.41	614,697.93	750,373.58	
10,664.0	49.68	90.06	10,581.3	6,594.3	-58.8	290.2	289.6	9.08	614,697.85	750,397.45	
10,695.0	52.85	88.83	10,600.7	6,613.7	-58.5	314.4	313.8	10.68	614,698.09	750,421.62	
10,727.0	56.10	88.65	10,619.3	6,632.3	-57.9	340.5	339.8	10.17	614,698.66	750,447.66	
10,759.0	59.18	88.30	10,636.4	6,649.4	-57.2	367.5	366.9	9.67	614,699.38	750,474.67	
10,790.0	62.52	88.21	10,651.5	6,664.5	-56.4	394.5	393.9	10.78	614,700.21	750,501.73	
10,822.0	64.63	88.47	10,665.8	6,678.8	-55.6	423.2	422.6	6.63	614,701.04	750,530.37	
10,854.0	67.27	88.47	10,678.8	6,691.8	-54.8	452.4	451.8	8.25	614,701.82	750,559.58	
10,886.0	70.17	88.91	10,690.4	6,703.4	-54.1	482.2	481.6	9.15	614,702.50	750,589.39	
10,917.0	73.16	88.83	10,700.2	6,713.2	-53.5	511.6	511.0	9.65	614,703.08	750,618.81	
10,949.0	76.41	88.56	10,708.6	6,721.6	-52.8	542.5	541.9	10.19	614,703.78	750,649.67	
10,981.0	79.93	88.39	10,715.1	6,728.1	-52.0	573.8	573.2	11.01	614,704.62	750,680.98	
11,012.0	82.48	88.74	10,719.9	6,732.9	-51.2	604.4	603.8	8.30	614,705.38	750,711.60	
11,044.0	85.30	88.83	10,723.3	6,736.3	-50.5	636.2	635.7	8.82	614,706.06	750,743.41	
11,076.0	88.46	88.83	10,725.0	6,738.0	-49.9	668.2	667.6	9.87	614,706.71	750,775.35	
11,107.0	89.25	88.83	10,725.6	6,738.6	-49.3	699.1	698.6	2.55	614,707.34	750,806.34	
LP - 11107.0 'MD, 10725.6 'TVD, -49.3 'N, 699.1 'E											
11,139.0	89.52	88.56	10,726.0	6,739.0	-48.5	731.1	730.6	1.19	614,708.07	750,838.33	
11,170.0	89.78	88.74	10,726.2	6,739.2	-47.8	762.1	761.6	1.02	614,708.80	750,869.32	
11,265.0	90.04	88.47	10,726.3	6,739.3	-45.5	857.1	856.6	0.39	614,711.11	750,964.29	
11,360.0	88.81	88.47	10,727.3	6,740.3	-42.9	952.1	951.6	1.29	614,713.65	751,059.25	
11,455.0	89.08	88.39	10,729.0	6,742.0	-40.3	1,047.0	1,046.5	0.30	614,716.25	751,154.20	
11,550.0	89.25	88.47	10,730.4	6,743.4	-37.7	1,142.0	1,141.5	0.20	614,718.86	751,249.15	
11,645.0	89.52	88.21	10,731.4	6,744.4	-35.0	1,236.9	1,236.5	0.39	614,721.61	751,344.11	
11,740.0	90.48	87.77	10,731.4	6,744.4	-31.7	1,331.8	1,331.5	1.11	614,724.94	751,439.05	
11,835.0	89.25	87.42	10,731.6	6,744.6	-27.7	1,426.8	1,426.4	1.35	614,728.93	751,533.96	
11,930.0	89.69	87.16	10,732.5	6,745.5	-23.2	1,521.7	1,521.3	0.54	614,733.42	751,628.85	



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Pathfinder Pathfinder X&Y Report

Company:	Diamondback Resources LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27)	TVD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Site:	Mongoose Fee	MD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
12,025.0	91.10	87.33	10,731.9	6,744.9	-18.6	1,616.5	1,616.3	1.49	614,737.98	751,723.74
12,120.0	89.78	87.86	10,731.1	6,744.1	-14.6	1,711.4	1,711.2	1.50	614,741.97	751,818.65
12,215.0	87.85	88.65	10,733.1	6,746.1	-11.7	1,806.4	1,806.2	2.20	614,744.86	751,913.58
12,311.0	87.76	88.47	10,736.8	6,749.8	-9.3	1,902.3	1,902.1	0.21	614,747.27	752,009.48
12,406.0	88.02	87.68	10,740.3	6,753.3	-6.1	1,997.2	1,997.0	0.87	614,750.46	752,104.36
12,500.0	87.49	86.89	10,744.0	6,757.0	-1.7	2,091.0	2,090.9	1.01	614,754.91	752,198.18
12,596.0	87.93	87.68	10,747.8	6,760.8	2.9	2,186.8	2,186.7	0.94	614,759.45	752,293.99
12,691.0	89.78	87.95	10,749.7	6,762.7	6.5	2,281.7	2,281.6	1.97	614,763.07	752,388.90
12,786.0	90.84	87.68	10,749.2	6,762.2	10.1	2,376.6	2,376.6	1.15	614,766.70	752,483.83
12,881.0	89.60	86.63	10,748.8	6,761.8	14.8	2,471.5	2,471.5	1.71	614,771.41	752,578.71
12,976.0	88.02	87.07	10,750.8	6,763.8	20.0	2,566.3	2,566.4	1.73	614,776.63	752,673.54
13,071.0	88.37	86.98	10,753.8	6,766.8	25.0	2,661.2	2,661.3	0.38	614,781.56	752,768.37
13,166.0	89.16	86.72	10,755.8	6,768.8	30.2	2,756.0	2,756.2	0.88	614,786.78	752,863.20
13,261.0	88.64	87.68	10,757.6	6,770.6	34.8	2,850.9	2,851.1	1.15	614,791.42	752,958.07
13,356.0	87.14	88.74	10,761.1	6,774.1	37.8	2,945.8	2,946.0	1.93	614,794.38	753,052.95
13,452.0	87.76	88.91	10,765.4	6,778.4	39.7	3,041.6	3,041.9	0.67	614,796.35	753,148.84
13,547.0	88.64	88.65	10,768.4	6,781.4	41.8	3,136.6	3,136.8	0.97	614,798.37	753,243.77
13,642.0	87.76	89.62	10,771.4	6,784.4	43.2	3,231.5	3,231.8	1.38	614,799.81	753,338.71
13,737.0	87.58	89.44	10,775.2	6,788.2	44.0	3,326.4	3,326.7	0.27	614,800.58	753,433.63
13,832.0	87.93	88.91	10,779.0	6,792.0	45.4	3,421.3	3,421.6	0.67	614,801.95	753,528.54
13,927.0	87.76	88.47	10,782.5	6,795.5	47.5	3,516.3	3,516.6	0.50	614,804.12	753,623.45
14,022.0	89.08	87.51	10,785.2	6,798.2	50.9	3,611.2	3,611.5	1.72	614,807.45	753,718.35
14,118.0	89.87	87.33	10,786.0	6,799.0	55.2	3,707.1	3,707.4	0.84	614,811.77	753,814.25
14,213.0	90.76	86.63	10,785.5	6,798.5	60.2	3,801.9	3,802.3	1.19	614,816.78	753,909.12
14,308.0	90.76	86.63	10,784.3	6,797.3	65.8	3,896.7	3,897.2	0.00	614,822.36	754,003.94
14,403.0	90.48	87.86	10,783.2	6,796.2	70.3	3,991.6	3,992.1	1.33	614,826.93	754,098.83
14,499.0	91.19	87.60	10,781.8	6,794.8	74.1	4,087.5	4,088.1	0.79	614,830.73	754,194.74



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Pathfinder
Pathfinder X&Y Report

Company:	Diamondback Resources LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27)	TVD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Site:	Mongoose Fee	MD Reference:	KB = 22' @ 3987.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
14,593.0	89.34	87.24	10,781.4	6,794.4	78.4	4,181.4	4,182.0	2.00	614,834.96	754,288.64
14,677.0	89.43	87.33	10,782.3	6,795.3	82.3	4,265.3	4,266.0	0.15	614,838.94	754,372.54
14,750.0	89.43	87.33	10,783.0	6,796.0	85.7	4,338.3	4,338.9	0.00	614,842.34	754,445.46
PROJECTED BHL - 14750.0 'MD, 10783.0 'TVD, 85.7 'N, 4338.3 'E - PBHL (Mongoose Fee #1)										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
10,029.0	10,027.8	-5.0	19.9	KOP - 10029.0 'MD, 10027.8 'TVD, -5.0 'N, 19.9 'E	
11,107.0	10,725.6	-49.3	699.1	LP - 11107.0 'MD, 10725.6 'TVD, -49.3 'N, 699.1 'E	
14,750.0	10,783.0	85.7	4,338.3	PROJECTED BHL - 14750.0 'MD, 10783.0 'TVD, 85.7 'N, 4338.3 'E	

Checked By: _____	Approved By: _____	Date: _____
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