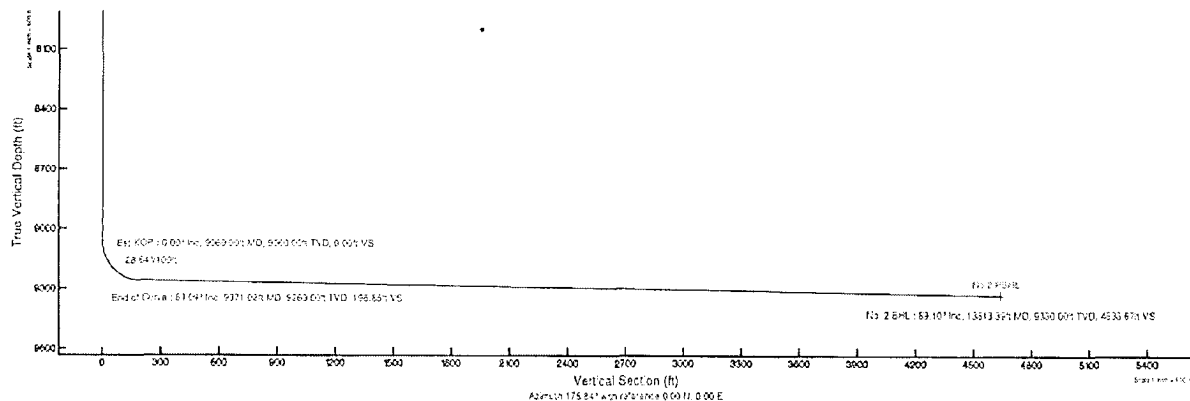






Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.2 SHL
Area	Lea County, NM	Well	No.2
Field	(South Lusk) Sec 32, T19S, R32E	Wellbore	No.2 PWB
Facility	South Lusk 32 State Com No.2		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.999941	Report Generated	11/10/2010 at 4:14:52 PM
Convergence at slot	0.29° East	Database/Source file	WA Midland/No.2_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W
Facility Reference Pt			709470.90	590907.10	32°37'23.759"N	103°47'14.005"W
Field Reference Pt			711300.40	590912.30	32°37'23.717"N	103°46'52.613"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.2 SHL (RKB) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.2 SHL (RKB) to Mean Sea Level	3546.00ft
Vertical Reference Pt	Rig on No.2 SHL (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No.2 SHL (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	175.84°



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2 SHL
Area	Lea County, NM	Well	No.2
Field	(South Lusk) Sec 32, T19S, R32E	Wellbore	No.2 PWB
Facility	South Lusk 32 State Com No.2		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	175.830	0.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	Tie On
100.00†	0.000	175.830	100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
200.00†	0.000	175.830	200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
300.00†	0.000	175.830	300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
400.00†	0.000	175.830	400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
500.00†	0.000	175.830	500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
600.00†	0.000	175.830	600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
700.00†	0.000	175.830	700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
800.00†	0.000	175.830	800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
880.00†	0.000	175.830	880.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	Rustler
900.00†	0.000	175.830	900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1000.00†	0.000	175.830	1000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1100.00†	0.000	175.830	1100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1200.00†	0.000	175.830	1200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1300.00†	0.000	175.830	1300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1400.00†	0.000	175.830	1400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1500.00†	0.000	175.830	1500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1600.00†	0.000	175.830	1600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1700.00†	0.000	175.830	1700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1800.00†	0.000	175.830	1800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
1900.00†	0.000	175.830	1900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2000.00†	0.000	175.830	2000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2100.00†	0.000	175.830	2100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2200.00†	0.000	175.830	2200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2300.00†	0.000	175.830	2300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2400.00†	0.000	175.830	2400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2500.00†	0.000	175.830	2500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2600.00†	0.000	175.830	2600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2700.00†	0.000	175.830	2700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2800.00†	0.000	175.830	2800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
2900.00†	0.000	175.830	2900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3000.00†	0.000	175.830	3000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3100.00†	0.000	175.830	3100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3200.00†	0.000	175.830	3200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3300.00†	0.000	175.830	3300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3400.00†	0.000	175.830	3400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3500.00†	0.000	175.830	3500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3600.00†	0.000	175.830	3600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3700.00†	0.000	175.830	3700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3800.00†	0.000	175.830	3800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
3900.00†	0.000	175.830	3900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4000.00†	0.000	175.830	4000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4100.00†	0.000	175.830	4100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4200.00†	0.000	175.830	4200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4300.00†	0.000	175.830	4300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2 SHL
Area	Lea County, NM	Well	No.2
Field	(South Lusk) Sec 32, T19S, R32E	Wellbore	No.2 PWB
Facility	South Lusk 32 State Com No.2		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4400.00†	0.000	175.830	4400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4450.00†	0.000	175.830	4450.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	Delaware
4500.00†	0.000	175.830	4500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4600.00†	0.000	175.830	4600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4700.00†	0.000	175.830	4700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4800.00†	0.000	175.830	4800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
4900.00†	0.000	175.830	4900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5000.00†	0.000	175.830	5000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5100.00†	0.000	175.830	5100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5200.00†	0.000	175.830	5200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5300.00†	0.000	175.830	5300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5400.00†	0.000	175.830	5400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5500.00†	0.000	175.830	5500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5600.00†	0.000	175.830	5600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5700.00†	0.000	175.830	5700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5800.00†	0.000	175.830	5800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
5900.00†	0.000	175.830	5900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6000.00†	0.000	175.830	6000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6100.00†	0.000	175.830	6100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6200.00†	0.000	175.830	6200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6300.00†	0.000	175.830	6300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6400.00†	0.000	175.830	6400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6500.00†	0.000	175.830	6500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6600.00†	0.000	175.830	6600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6700.00†	0.000	175.830	6700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6800.00†	0.000	175.830	6800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
6900.00†	0.000	175.830	6900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7000.00†	0.000	175.830	7000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7100.00†	0.000	175.830	7100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7200.00†	0.000	175.830	7200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	Bone Spring
7300.00†	0.000	175.830	7300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7400.00†	0.000	175.830	7400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	Avalon SS **
7500.00†	0.000	175.830	7500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7600.00†	0.000	175.830	7600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7700.00†	0.000	175.830	7700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7800.00†	0.000	175.830	7800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
7900.00†	0.000	175.830	7900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8000.00†	0.000	175.830	8000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8100.00†	0.000	175.830	8100.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8200.00†	0.000	175.830	8200.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8300.00†	0.000	175.830	8300.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8400.00†	0.000	175.830	8400.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8420.00†	0.000	175.830	8420.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	1st Bone Spring SS
8500.00†	0.000	175.830	8500.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8600.00†	0.000	175.830	8600.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2 SHL
Area	Lea County, NM	Well	No.2
Field	(South Lusk) Sec 32, T19S, R32E	Wellbore	No.2 PWB
Facility	South Lusk 32 State Com No.2		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8700.00†	0.000	175.830	8700.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8800.00†	0.000	175.830	8800.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
8900.00†	0.000	175.830	8900.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
9000.00†	0.000	175.830	9000.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	
9050.00†	0.000	175.830	9050.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	2nd Bone Spring SS
9060.00	0.000	175.830	9060.00	0.00	0.00	0.00	709470.90	590907.10	32°37'23.759"N	103°47'14.005"W	0.00	Est KOP
9100.00†	11.458	175.830	9099.73	3.99	-3.98	0.29	709471.19	590903.12	32°37'23.719"N	103°47'14.002"W	28.64	
9200.00†	40.102	175.830	9188.85	47.03	-46.90	3.42	709474.32	590860.20	32°37'23.295"N	103°47'13.968"W	28.64	
9300.00†	68.746	175.830	9246.42	127.52	-127.18	9.27	709480.17	590779.93	32°37'22.500"N	103°47'13.904"W	28.64	
9371.02	89.090	175.830	9260.00	196.85	-196.33	14.31	709485.21	590710.78	32°37'21.816"N	103°47'13.850"W	28.64	End of Curve
9371.49	89.097	175.836	9260.01	197.31	-196.79	14.35	709485.25	590710.32	32°37'21.811"N	103°47'13.849"W	2.00	EOD
9400.00†	89.097	175.836	9260.46	225.82	-225.23	16.42	709487.32	590681.89	32°37'21.530"N	103°47'13.827"W	0.00	
9500.00†	89.097	175.836	9262.03	325.81	-324.95	23.68	709494.58	590582.17	32°37'20.542"N	103°47'13.748"W	0.00	
9600.00†	89.097	175.836	9263.61	425.80	-424.67	30.94	709501.84	590482.45	32°37'19.555"N	103°47'13.669"W	0.00	
9700.00†	89.097	175.836	9265.18	525.79	-524.40	38.20	709509.10	590382.74	32°37'18.568"N	103°47'13.590"W	0.00	
9800.00†	89.097	175.836	9266.76	625.77	-624.12	45.46	709516.36	590283.02	32°37'17.581"N	103°47'13.511"W	0.00	
9900.00†	89.097	175.836	9268.34	725.76	-723.84	52.72	709523.62	590183.30	32°37'16.594"N	103°47'13.432"W	0.00	
10000.00†	89.097	175.836	9269.91	825.75	-823.57	59.98	709530.88	590083.58	32°37'15.607"N	103°47'13.353"W	0.00	
10100.00†	89.097	175.836	9271.49	925.74	-923.29	67.24	709538.14	589983.87	32°37'14.620"N	103°47'13.274"W	0.00	
10200.00†	89.097	175.836	9273.06	1025.72	-1023.01	74.50	709545.40	589884.15	32°37'13.633"N	103°47'13.196"W	0.00	
10300.00†	89.097	175.836	9274.64	1125.71	-1122.74	81.76	709552.66	589784.43	32°37'12.646"N	103°47'13.117"W	0.00	
10400.00†	89.097	175.836	9276.21	1225.70	-1222.46	89.02	709559.91	589684.71	32°37'11.659"N	103°47'13.038"W	0.00	
10500.00†	89.097	175.836	9277.79	1325.69	-1322.19	96.28	709567.17	589584.99	32°37'10.672"N	103°47'12.959"W	0.00	
10600.00†	89.097	175.836	9279.37	1425.67	-1421.91	103.54	709574.43	589485.28	32°37'09.685"N	103°47'12.880"W	0.00	
10700.00†	89.097	175.836	9280.94	1525.66	-1521.63	110.80	709581.69	589385.56	32°37'08.698"N	103°47'12.801"W	0.00	
10800.00†	89.097	175.836	9282.52	1625.65	-1621.36	118.06	709588.95	589285.84	32°37'07.710"N	103°47'12.722"W	0.00	
10900.00†	89.097	175.836	9284.09	1725.64	-1721.08	125.32	709596.21	589186.12	32°37'06.723"N	103°47'12.643"W	0.00	
11000.00†	89.097	175.836	9285.67	1825.62	-1820.80	132.58	709603.47	589086.41	32°37'05.736"N	103°47'12.564"W	0.00	
11100.00†	89.097	175.836	9287.24	1925.61	-1920.53	139.84	709610.73	588986.69	32°37'04.749"N	103°47'12.486"W	0.00	
11200.00†	89.097	175.836	9288.82	2025.60	-2020.25	147.10	709617.99	588886.97	32°37'03.762"N	103°47'12.407"W	0.00	
11300.00†	89.097	175.836	9290.40	2125.59	-2119.97	154.36	709625.25	588787.25	32°37'02.775"N	103°47'12.328"W	0.00	
11400.00†	89.097	175.836	9291.97	2225.57	-2219.70	161.62	709632.51	588687.54	32°37'01.788"N	103°47'12.249"W	0.00	
11500.00†	89.097	175.836	9293.55	2325.56	-2319.42	168.88	709639.77	588587.82	32°37'00.801"N	103°47'12.170"W	0.00	
11600.00†	89.097	175.836	9295.12	2425.55	-2419.15	176.14	709647.03	588488.10	32°36'59.814"N	103°47'12.091"W	0.00	
11700.00†	89.097	175.836	9296.70	2525.54	-2518.87	183.40	709654.29	588388.38	32°36'58.827"N	103°47'12.012"W	0.00	
11800.00†	89.097	175.836	9298.27	2625.52	-2618.59	190.66	709661.55	588288.67	32°36'57.840"N	103°47'11.933"W	0.00	
11900.00†	89.097	175.836	9299.85	2725.51	-2718.32	197.92	709668.81	588188.95	32°36'56.853"N	103°47'11.855"W	0.00	
12000.00†	89.097	175.836	9301.43	2825.50	-2818.04	205.18	709676.07	588089.23	32°36'55.866"N	103°47'11.776"W	0.00	
12100.00†	89.097	175.836	9303.00	2925.49	-2917.76	212.44	709683.33	587989.51	32°36'54.879"N	103°47'11.697"W	0.00	
12200.00†	89.097	175.836	9304.58	3025.48	-3017.49	219.70	709690.59	587889.80	32°36'53.891"N	103°47'11.618"W	0.00	
12300.00†	89.097	175.836	9306.15	3125.46	-3117.21	226.96	709697.85	587790.08	32°36'52.904"N	103°47'11.539"W	0.00	
12400.00†	89.097	175.836	9307.73	3225.45	-3216.93	234.22	709705.11	587690.36	32°36'51.917"N	103°47'11.460"W	0.00	
12500.00†	89.097	175.836	9309.30	3325.44	-3316.66	241.49	709712.37	587590.64	32°36'50.930"N	103°47'11.381"W	0.00	
12600.00†	89.097	175.836	9310.88	3425.43	-3416.38	248.75	709719.63	587490.92	32°36'49.943"N	103°47'11.302"W	0.00	
12700.00†	89.097	175.836	9312.46	3525.41	-3516.11	256.01	709726.89	587391.21	32°36'48.956"N	103°47'11.223"W	0.00	



Planned Wellpath Report

Prelim_1

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2 SHL
Area	Lea County, NM	Well	No.2
Field	(South Lusk) Sec 32, T19S, R32E	Wellbore	No.2 PWB
Facility	South Lusk 32 State Com No.2		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12800.00†	89.097	175.836	9314.03	3625.40	-3615.83	263.27	709734.15	587291.49	32°36'47.969"N	103°47'11.145"W	0.00	
12900.00†	89.097	175.836	9315.61	3725.39	-3715.55	270.53	709741.41	587191.77	32°36'46.982"N	103°47'11.066"W	0.00	
13000.00†	89.097	175.836	9317.18	3825.38	-3815.28	277.79	709748.67	587092.05	32°36'45.995"N	103°47'10.987"W	0.00	
13100.00†	89.097	175.836	9318.76	3925.36	-3915.00	285.05	709755.93	586992.34	32°36'45.008"N	103°47'10.908"W	0.00	
13200.00†	89.097	175.836	9320.33	4025.35	-4014.72	292.31	709763.19	586892.62	32°36'44.021"N	103°47'10.829"W	0.00	
13300.00†	89.097	175.836	9321.91	4125.34	-4114.45	299.57	709770.45	586792.90	32°36'43.034"N	103°47'10.750"W	0.00	
13400.00†	89.097	175.836	9323.49	4225.33	-4214.17	306.83	709777.71	586693.18	32°36'42.047"N	103°47'10.671"W	0.00	
13500.00†	89.097	175.836	9325.06	4325.31	-4313.89	314.09	709784.97	586593.47	32°36'41.059"N	103°47'10.592"W	0.00	
13600.00†	89.097	175.836	9326.64	4425.30	-4413.62	321.35	709792.23	586493.75	32°36'40.072"N	103°47'10.514"W	0.00	
13700.00†	89.097	175.836	9328.21	4525.29	-4513.34	328.61	709799.49	586394.03	32°36'39.085"N	103°47'10.435"W	0.00	
13800.00†	89.097	175.836	9329.79	4625.28	-4613.07	335.87	709806.75	586294.31	32°36'38.098"N	103°47'10.356"W	0.00	
13813.39	89.097	175.836	9330.00†	4638.67	-4626.42	336.84	709807.72	586280.96	32°36'37.966"N	103°47'10.345"W	0.00	No. 2 BHL

HOLE & CASING SECTIONS Ref Wellbore: No.2 PWB Ref Wellpath: Prelim_1									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	0.00	4000.00	4000.00	0.00	4000.00	0.00	0.00	0.00	0.00

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No.2 PBHL	13813.39	9330.00	-4626.42	336.84	709807.72	586280.96	32°36'37.966"N	103°47'10.345"W	point

SURVEY PROGRAM Ref Wellbore: No.2 PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13813.39	NaviTrak (Standard)		No.2 PWB