

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.		
Natalie Krueger Signature _____ Date _____ Natalie Krueger Printed Name _____ nkrueger@cimarex.com Email Address _____		
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.		
JUNE 11, 2011 Date Surveyed _____ Signature & Seal of Professional Surveyor _____		
W.C. [Signature]		
Certificate No. Gary L. Jones 7977		
BASIN SURVEYS 24746		

Mud, Casing, Cementing, and BOP Attachment
Parkway State 17 Com 5
Cimarex Energy Co. of Colorado
Unit D, Section 17
T19S-R29E, Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

Location: SHL 900 FNL & 330 FWL
BHL 900 FNL & 330 FEL

Elevation above sea level: 3377' GR

Proposed drilling depth: Lateral MD 12292 Lateral TVD 7790

Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 450'	8.4 - 8.6	28	NC	FW
0' to 2500'	10.0	30-32	NC	Brine water
0' to 12292'	8.4 - 9.5	30-32	NC	FW, brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Proposed drilling Plan

Drill 8¾" hole to KOP @ 7504 and drill through curve to TD @ 12292 MD, 7790 TVD. Run 5½" casing from 0-TD and cement.

Mud, Casing, Cementing, and BOP Attachment
Parkway State 17 Com 5
 Cimarex Energy Co. of Colorado
 Unit O, Section 15
 T19S-R29E, Eddy County, NM

Casing & Cementing Plan:

String	Hole Size	Depth		Casing OD		Weight	Collar	Grade
<i>Surface</i>	17½"	0'	to 450'	New	13¾"	48#	STC	H-40
<i>Intermediate</i>	12¼"	0'	to 2500'	New	9¾"	40#	LTC	J/K-55
<i>Production</i>	8¾"	0'	to 12292'	New	5¾"	26#	LTC	P-110

Cementing Plan:

Surface Lead:330SKS EconoCem + 5% salt + 5 lbm gilsonite 13.5ppg 1.75yield 70% Excess
 Tail:150SKS HalCem + 2% CaCl 14.8ppg 1.35 yield 10% excess

TOC Surface

Intermediate Lead:1170SKS EconoCem + 5% salt + 5 lbm gilsonite 12.9ppg 1.85yield 70% Excess
 Tail:350SKS HalCem + 1% CaCl 14.8ppg 1.34 yield 10% excess

TOC Surface

Production Lead: 1640 sks 11.8 ppg 50:50 Poz:H lead cement with 5% Salt, 10% D20, 0.125 lb/sk D130, 1% D112, 0.2% D46, 11.8 ppg, 2.59 ft3/sk
 Tail: 500 sks 13 ppg PVL with 0.2% D167, 1.3% Salt, 2% D174, 0.2% D46, 0.3% D800, 13ppg, yield 1.43 ft3/sk, 7.44 gal/sk
TOC 3200'

<u>Collapse Factor</u>	<u>Burst Factor</u>	<u>Tension Factor</u>
1.125	1.125	1.6

Pressure control Equipment:

Exhibit "E". A 13¾" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000.' A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nipped up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system.

The BOP will be tested to 3000 psi by an independent service company.

Well Profile Data



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No. 5H PWB
Facility	Parkway State 17 Com No.4H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Calhpliik
Scale	0.999915	Report Generated	6/29/2011 at 4:14:11 PM
Convergence at slot	0.12° East	Database/Source file	WA Midland/No._5H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	3713.06	-41.75	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W
Facility Reference Pt			611803.25	602259.66	32°39'19.620"N	104°06'15.740"W
Field Reference Pt			611803.25	602259.66	32°39'19.620"N	104°06'15.740"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 5H SHL (KB) to GL	3377.00ft
Horizontal Reference Pt	Slot	Rig on No. 5H SHL (KB) to Mean Sea Level	3377.00ft
Vertical Reference Pt	Rig on No. 5H SHL (KB)	Rig on No. 5H SHL (KB) to Mud Line at Slot (No. 5H SHL)	3377.00ft
MD Reference Pt	Rig on No. 5H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.03°



Planned Wellpath Report

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Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Aren	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No. 5H PWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (128 stations) † = interpolated/extrapolated station.												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	90.033	0.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	Tie On
100.00†	0.000	90.033	100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
200.00†	0.000	90.033	200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
300.00†	0.000	90.033	300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
400.00†	0.000	90.033	400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
500.00†	0.000	90.033	500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
600.00†	0.000	90.033	600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
700.00†	0.000	90.033	700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
800.00†	0.000	90.033	800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
900.00†	0.000	90.033	900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1000.00†	0.000	90.033	1000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1100.00†	0.000	90.033	1100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1200.00†	0.000	90.033	1200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1300.00†	0.000	90.033	1300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1400.00†	0.000	90.033	1400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1500.00†	0.000	90.033	1500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1600.00†	0.000	90.033	1600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1700.00†	0.000	90.033	1700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1800.00†	0.000	90.033	1800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
1900.00†	0.000	90.033	1900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2000.00†	0.000	90.033	2000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2100.00†	0.000	90.033	2100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2200.00†	0.000	90.033	2200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2300.00†	0.000	90.033	2300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2400.00†	0.000	90.033	2400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2500.00†	0.000	90.033	2500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2600.00†	0.000	90.033	2600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2700.00†	0.000	90.033	2700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2800.00†	0.000	90.033	2800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
2900.00†	0.000	90.033	2900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3000.00†	0.000	90.033	3000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3100.00†	0.000	90.033	3100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3200.00†	0.000	90.033	3200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3300.00†	0.000	90.033	3300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3400.00†	0.000	90.033	3400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3500.00†	0.000	90.033	3500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3600.00†	0.000	90.033	3600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3700.00†	0.000	90.033	3700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3800.00†	0.000	90.033	3800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
3900.00†	0.000	90.033	3900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4000.00†	0.000	90.033	4000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4100.00†	0.000	90.033	4100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4200.00†	0.000	90.033	4200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4300.00†	0.000	90.033	4300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4400.00†	0.000	90.033	4400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No. 5H PWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (128 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4500.00†	0.000	90.033	4500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4600.00†	0.000	90.033	4600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4700.00†	0.000	90.033	4700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4800.00†	0.000	90.033	4800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
4900.00†	0.000	90.033	4900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5000.00†	0.000	90.033	5000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5100.00†	0.000	90.033	5100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5200.00†	0.000	90.033	5200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5300.00†	0.000	90.033	5300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5400.00†	0.000	90.033	5400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5500.00†	0.000	90.033	5500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5600.00†	0.000	90.033	5600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5700.00†	0.000	90.033	5700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5800.00†	0.000	90.033	5800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
5900.00†	0.000	90.033	5900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6000.00†	0.000	90.033	6000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6100.00†	0.000	90.033	6100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6200.00†	0.000	90.033	6200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6300.00†	0.000	90.033	6300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6400.00†	0.000	90.033	6400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6500.00†	0.000	90.033	6500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6600.00†	0.000	90.033	6600.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6700.00†	0.000	90.033	6700.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6800.00†	0.000	90.033	6800.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
6810.00†	0.000	90.033	6810.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	1st Bone Spring Shale
6900.00†	0.000	90.033	6900.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7000.00†	0.000	90.033	7000.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7100.00†	0.000	90.033	7100.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7200.00†	0.000	90.033	7200.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7300.00†	0.000	90.033	7300.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7400.00†	0.000	90.033	7400.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7500.00†	0.000	90.033	7500.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
7503.52	0.000	90.033	7503.52	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	Est KOP
7600.00†	19.296	90.033	7598.19	16.09	-0.01	16.09	611777.59	605972.39	32°39'56.359"N	104°06'15.946"W	20.00	
7681.17†	35.529	90.033	7670.00	53.34	-0.03	53.34	611814.83	605972.37	32°39'56.358"N	104°06'15.511"W	20.00	2nd Bone Spring Shale
7700.00†	39.296	90.033	7684.96	64.78	-0.04	64.78	611826.27	605972.36	32°39'56.358"N	104°06'15.377"W	20.00	
7800.00†	59.296	90.033	7749.84	140.20	-0.08	140.20	611901.69	605972.32	32°39'56.356"N	104°06'14.495"W	20.00	
7900.00†	79.296	90.033	7785.02	233.27	-0.14	233.27	611994.75	605972.26	32°39'56.353"N	104°06'13.406"W	20.00	
7953.52	90.000	90.033	7790.00	286.48	-0.17	286.48	612047.95	605972.23	32°39'56.352"N	104°06'12.784"W	20.00	End of Curve
8000.00†	90.000	90.033	7790.00	332.96	-0.19	332.96	612094.43	605972.21	32°39'56.351"N	104°06'12.240"W	0.00	
8100.00†	90.000	90.033	7790.00	432.96	-0.25	432.96	612194.42	605972.15	32°39'56.348"N	104°06'11.070"W	0.00	
8200.00†	90.000	90.033	7790.00	532.96	-0.31	532.96	612294.41	605972.09	32°39'56.345"N	104°06'09.900"W	0.00	
8300.00†	90.000	90.033	7790.00	632.96	-0.37	632.96	612394.40	605972.03	32°39'56.342"N	104°06'08.731"W	0.00	
8400.00†	90.000	90.033	7790.00	732.96	-0.43	732.96	612494.39	605971.97	32°39'56.340"N	104°06'07.561"W	0.00	
8500.00†	90.000	90.033	7790.00	832.96	-0.49	832.96	612594.39	605971.91	32°39'56.337"N	104°06'06.391"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No. 5H PWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (128 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8600.00†	90.000	90.033	7790.00	932.96	-0.54	932.96	612694.38	605971.86	32°39'56.334"N	104°06'05.221"W	0.00	
8700.00†	90.000	90.033	7790.00	1032.96	-0.60	1032.96	612794.37	605971.80	32°39'56.331"N	104°06'04.052"W	0.00	
8800.00†	90.000	90.033	7790.00	1132.96	-0.66	1132.96	612894.36	605971.74	32°39'56.329"N	104°06'02.882"W	0.00	
8900.00†	90.000	90.033	7790.00	1232.96	-0.72	1232.96	612994.35	605971.68	32°39'56.326"N	104°06'01.712"W	0.00	
9000.00†	90.000	90.033	7790.00	1332.96	-0.78	1332.96	613094.34	605971.62	32°39'56.323"N	104°06'00.542"W	0.00	
9100.00†	90.000	90.033	7790.00	1432.96	-0.84	1432.96	613194.33	605971.56	32°39'56.320"N	104°05'59.373"W	0.00	
9200.00†	90.000	90.033	7790.00	1532.96	-0.90	1532.96	613294.32	605971.51	32°39'56.318"N	104°05'58.203"W	0.00	
9300.00†	90.000	90.033	7790.00	1632.96	-0.95	1632.96	613394.32	605971.45	32°39'56.315"N	104°05'57.033"W	0.00	
9400.00†	90.000	90.033	7790.00	1732.96	-1.01	1732.96	613494.31	605971.39	32°39'56.312"N	104°05'55.863"W	0.00	
9500.00†	90.000	90.033	7790.00	1832.96	-1.07	1832.96	613594.30	605971.33	32°39'56.309"N	104°05'54.694"W	0.00	
9600.00†	90.000	90.033	7790.00	1932.96	-1.13	1932.96	613694.29	605971.27	32°39'56.307"N	104°05'53.524"W	0.00	
9700.00†	90.000	90.033	7790.00	2032.96	-1.19	2032.96	613794.28	605971.21	32°39'56.304"N	104°05'52.354"W	0.00	
9800.00†	90.000	90.033	7790.00	2132.96	-1.25	2132.96	613894.27	605971.15	32°39'56.301"N	104°05'51.184"W	0.00	
9900.00†	90.000	90.033	7790.00	2232.96	-1.30	2232.96	613994.26	605971.10	32°39'56.298"N	104°05'50.015"W	0.00	
10000.00†	90.000	90.033	7790.00	2332.96	-1.36	2332.96	614094.25	605971.04	32°39'56.295"N	104°05'48.845"W	0.00	
10100.00†	90.000	90.033	7790.00	2432.96	-1.42	2432.96	614194.25	605970.98	32°39'56.293"N	104°05'47.675"W	0.00	
10200.00†	90.000	90.033	7790.00	2532.96	-1.48	2532.96	614294.24	605970.92	32°39'56.290"N	104°05'46.505"W	0.00	
10300.00†	90.000	90.033	7790.00	2632.96	-1.54	2632.96	614394.23	605970.86	32°39'56.287"N	104°05'45.336"W	0.00	
10400.00†	90.000	90.033	7790.00	2732.96	-1.60	2732.96	614494.22	605970.80	32°39'56.284"N	104°05'44.166"W	0.00	
10500.00†	90.000	90.033	7790.00	2832.96	-1.65	2832.96	614594.21	605970.75	32°39'56.282"N	104°05'42.996"W	0.00	
10600.00†	90.000	90.033	7790.00	2932.96	-1.71	2932.96	614694.20	605970.69	32°39'56.279"N	104°05'41.826"W	0.00	
10700.00†	90.000	90.033	7790.00	3032.96	-1.77	3032.96	614794.19	605970.63	32°39'56.276"N	104°05'40.657"W	0.00	
10800.00†	90.000	90.033	7790.00	3132.96	-1.83	3132.96	614894.18	605970.57	32°39'56.273"N	104°05'39.487"W	0.00	
10900.00†	90.000	90.033	7790.00	3232.96	-1.89	3232.96	614994.18	605970.51	32°39'56.270"N	104°05'38.317"W	0.00	
11000.00†	90.000	90.033	7790.00	3332.96	-1.95	3332.96	615094.17	605970.45	32°39'56.268"N	104°05'37.147"W	0.00	
11100.00†	90.000	90.033	7790.00	3432.96	-2.00	3432.96	615194.16	605970.40	32°39'56.265"N	104°05'35.978"W	0.00	
11200.00†	90.000	90.033	7790.00	3532.96	-2.06	3532.96	615294.15	605970.34	32°39'56.262"N	104°05'34.808"W	0.00	
11300.00†	90.000	90.033	7790.00	3632.96	-2.12	3632.96	615394.14	605970.28	32°39'56.259"N	104°05'33.638"W	0.00	
11400.00†	90.000	90.033	7790.00	3732.96	-2.18	3732.96	615494.13	605970.22	32°39'56.256"N	104°05'32.468"W	0.00	
11500.00†	90.000	90.033	7790.00	3832.96	-2.24	3832.96	615594.12	605970.16	32°39'56.253"N	104°05'31.299"W	0.00	
11600.00†	90.000	90.033	7790.00	3932.96	-2.30	3932.96	615694.11	605970.10	32°39'56.251"N	104°05'30.129"W	0.00	
11700.00†	90.000	90.033	7790.00	4032.96	-2.35	4032.96	615794.11	605970.05	32°39'56.248"N	104°05'28.959"W	0.00	
11800.00†	90.000	90.033	7790.00	4132.96	-2.41	4132.96	615894.10	605969.99	32°39'56.245"N	104°05'27.789"W	0.00	
11900.00†	90.000	90.033	7790.00	4232.96	-2.47	4232.96	615994.09	605969.93	32°39'56.242"N	104°05'26.620"W	0.00	
12000.00†	90.000	90.033	7790.00	4332.96	-2.53	4332.96	616094.08	605969.87	32°39'56.239"N	104°05'25.450"W	0.00	
12100.00†	90.000	90.033	7790.00	4432.96	-2.59	4432.96	616194.07	605969.81	32°39'56.236"N	104°05'24.280"W	0.00	
12200.00†	90.000	90.033	7790.00	4532.96	-2.65	4532.96	616294.06	605969.75	32°39'56.234"N	104°05'23.110"W	0.00	
12291.85	90.000	90.033	7790.00	4624.80	-2.70	4624.80	616385.90	605969.70	32°39'56.231"N	104°05'22.036"W	0.00	No. 5H PBHL



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No. 5H PWB
Facility	Parkway State 17 Com No.4H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 5H PBHL	12291.85	7790.00	-2.70	4624.80	616385.90	605969.70	32°39'56.231"N	104°05'22.036"W	point

SURVEY PROGRAM - Ref Wellbore: No. 5H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3377.00	12302.23	NaviTrak (Standard)		No. 5H PWB