

Submit 3 Copies To Appropriate District
Office
District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OGD

JUL 29 2011

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR WELLS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Cimarex Energy Co. of Colorado

3. Address of Operator
600 N. Marienfeld St., Ste. 600; Midland, TX 79701

4. Well Location

SHL Unit Letter D : 660 feet from the North line and 825 feet from the West line
Section 16 Township 19S Range 32E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3617' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
OTHER: Change Location ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Cimarex proposes to change the location of this well back to the original permitted location.

Previous Location

16-19S-32E
SHL 660 FNL & 825 FWL
BHL 660 FSL & 660 FWL
Lea County, NM

X Proposed Location X

16-19S-32E
SHL 330 FNL & 660 FWL
330 FSL & 660 FWL
Lea County, NM

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Natalie Krueger TITLE Regulatory Analyst DATE July 28, 2011

Type or print name Natalie Krueger email address: nkrueger@cimarex.com Telephone No. 432-620-1936

For State Use Only

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE AUG 01 2011

Conditions of Approval (if any):

DISTRICT I
1625 N. French Dr., Hobbs. NM 88240

HOBBS OCD

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 15, 2009

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

JUL 29 2011

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Submit one copy to appropriate
District Office

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

RECEIVED

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☒ AMENDED REPORT

API Number 30-025-39793	Pool Code 41442	Pool Name Lusk; Bone Spring, East
Property Code 21762	Property Name STATE DR COM	Well Number 6
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3617'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	19 S	32 E		330	NORTH	660	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	19 S	32 E		330	SOUTH	660	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code P	Order No. NSL Pending
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION Lat - N 32°40'00.47" Long - W 103°46'39.63" NMSPCE- N 606759.1 E 712327.8 (NAD-83) LG-0604-0002 VB-0176-0000 PROPOSED BOTTOM HOLE LOCATION Lat - N 32°39'14.73" Long - W 103°46'39.54" NMSPCE- N 602136.73 E 712360.13 (NAD-83) State DR Com 6 SHL/PP Bone Spring 330 FNL & 660 FWL EOC/Beg of Prod Interval 519 FNL & 660 FWL BHL/End of Prod Interval 330 FSL & 660 FWL	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. <i>Natalie Krueger</i> 7/28/2011 Signature Date Natalie Krueger Printed Name 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. Date, Surveyor Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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Cimarex Energy Co.

Location Lea County, NM
Field (State DR) Sec 16, T19S, R32E
Facility State DR No. 6

Slot No. 6 SHL
Well No. 6
Wellbore No. 6 PWB



INTEQ

HOBBS OCD

JUL 29 2011

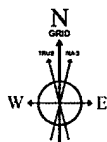
RECEIVED

Well Profile Data

Design Comment	MD (ft)	Inc. (°)	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.599	0.00	0.00	0.00	0.00	0.00
Est. KOP	9209.20	0.000	179.599	9209.20	0.00	0.00	0.00	0.00
End of Curve	9507.05	89.356	179.599	9400.17	-188.84	1.32	30.00	188.84
No. 6 PWB	13941.25	89.356	179.599	9450.00	-4622.64	32.33	0.00	4622.76

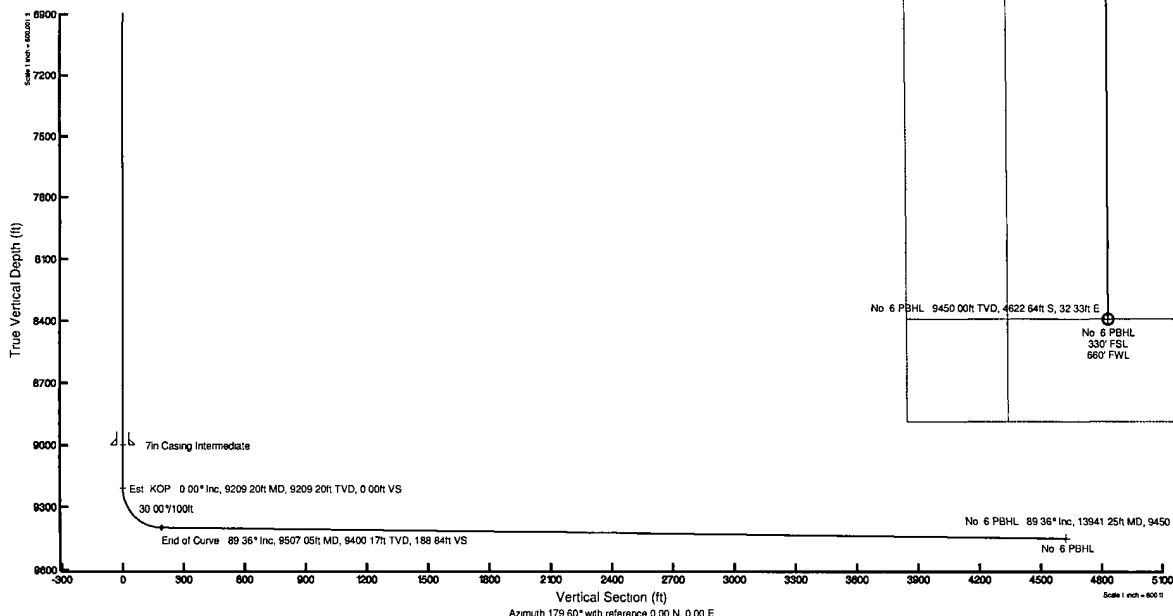
Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	End Local N (ft)	End Local E (ft)	Wellbore
9 5/8" Casing Surface	0.00	4800.00	4800.00	0.00	4800.00	0.00	0.00	0.00	No. 6 PWB
7" Casing Intermediate	0.00	9000.00	9000.00	0.00	9000.00	0.00	0.00	0.00	No. 6 PWB



BGGM (1945.0 to 2011.0) Dip 60.60° Field 49029.2 nT
Magnetic North is 7.88 degrees East of True North (at 6/1/2010)
Grid North is 0.30 degrees East of True North
To correct azimuth from True to Grid subtract 0.30 degrees
To correct azimuth from Magnetic to Grid add 7.58 degrees
For example if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 7.58 = 97.58

Plot reference wellpath is Prelim 1	Grid System: NAD83 / TM New Mexico State Planes: Eastern Zone (3001), US feet
True vertical depths are referenced to Rig on No. 6 SHL (GL)	North Reference: Grid north
Measured depths are referenced to Rig on No. 6 SHL (GL)	Scale: True distance
Rig on No. 6 SHL (GL) to Mean Sea Level: 3817 feet	Depths are in feet
Mean Sea Level to Mud line (Facility State DR No. 6): 3817 feet	Created by: Roland Flores on 6/1/2010
Coordinates are in feet referenced to Spot Location	





Planned Wellpath Report

Prelim 1
Page 1 of 7



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 6 SHL
Area	Lea County, NM	Well	No. 6
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 6 PWB
Facility	State DR No. 6		

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	Florroll
Scale	0.999943	Report Generated	6/1/2010 at 1:25:24 PM
Convergence at slot	0.30° East	Database/Source file	WA_Midland/No. 6_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	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W
Facility Reference Pt			712327.80	606759.10	32°40'00.467"N	103°46'39.631"W
Field Reference Pt			712327.80	606759.10	32°40'00.467"N	103°46'39.631"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 6 SHL (GL) to Ground Level	0.00ft
Horizontal Reference Pt	Slot Location	Rig on No. 6 SHL (GL) to Mean Sea Level	3617.00ft
Vertical Reference Pt	Rig on No. 6 SHL (GL)	Ground Level to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 6 SHL (GL)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.60°



Planned Wellpath Report

Prelim 1
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WELLPATH DATA (143 stations) † = interpolated/extrapolated station												Comments
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]	
0.00	0.000	179.599	0.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	Tie On
100.00†	0.000	179.599	100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
200.00†	0.000	179.599	200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
300.00†	0.000	179.599	300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
400.00†	0.000	179.599	400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
500.00†	0.000	179.599	500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
600.00†	0.000	179.599	600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
700.00†	0.000	179.599	700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
800.00†	0.000	179.599	800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
900.00†	0.000	179.599	900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1000.00†	0.000	179.599	1000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1100.00†	0.000	179.599	1100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1200.00†	0.000	179.599	1200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1300.00†	0.000	179.599	1300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1400.00†	0.000	179.599	1400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1500.00†	0.000	179.599	1500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1600.00†	0.000	179.599	1600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1700.00†	0.000	179.599	1700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1800.00†	0.000	179.599	1800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
1900.00†	0.000	179.599	1900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2000.00†	0.000	179.599	2000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2100.00†	0.000	179.599	2100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2200.00†	0.000	179.599	2200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2300.00†	0.000	179.599	2300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2400.00†	0.000	179.599	2400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2500.00†	0.000	179.599	2500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2600.00†	0.000	179.599	2600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2700.00†	0.000	179.599	2700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2800.00†	0.000	179.599	2800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
2900.00†	0.000	179.599	2900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	



Planned Wellpath Report

Prelim 1

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 6 SHL
Area	Lea County, NM	Well	No. 6
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 6 PWB
Facility	State DR No. 6		

WELLPATH DATA (143 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
3000.00†	0.000	179.599	3000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3100.00†	0.000	179.599	3100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3200.00†	0.000	179.599	3200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3300.00†	0.000	179.599	3300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3400.00†	0.000	179.599	3400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3500.00†	0.000	179.599	3500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3600.00†	0.000	179.599	3600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3700.00†	0.000	179.599	3700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3800.00†	0.000	179.599	3800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
3900.00†	0.000	179.599	3900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4000.00†	0.000	179.599	4000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4100.00†	0.000	179.599	4100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4200.00†	0.000	179.599	4200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4300.00†	0.000	179.599	4300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4400.00†	0.000	179.599	4400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4500.00†	0.000	179.599	4500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4600.00†	0.000	179.599	4600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4700.00†	0.000	179.599	4700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4800.00†	0.000	179.599	4800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
4900.00†	0.000	179.599	4900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5000.00†	0.000	179.599	5000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5100.00†	0.000	179.599	5100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5200.00†	0.000	179.599	5200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5300.00†	0.000	179.599	5300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5400.00†	0.000	179.599	5400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5500.00†	0.000	179.599	5500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5600.00†	0.000	179.599	5600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5700.00†	0.000	179.599	5700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5800.00†	0.000	179.599	5800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
5900.00†	0.000	179.599	5900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	



Planned Wellpath Report

Prelim 1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 6 SHL
Area	Lea County, NM	Well	No. 6
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 6 PWB
Facility	State DR No. 6		

WELLPATH DATA (143 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
6000.00†	0.000	179.599	6000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6100.00†	0.000	179.599	6100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6200.00†	0.000	179.599	6200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6300.00†	0.000	179.599	6300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6400.00†	0.000	179.599	6400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6500.00†	0.000	179.599	6500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6600.00†	0.000	179.599	6600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6700.00†	0.000	179.599	6700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6800.00†	0.000	179.599	6800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
6900.00†	0.000	179.599	6900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7000.00†	0.000	179.599	7000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7100.00†	0.000	179.599	7100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7200.00†	0.000	179.599	7200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7300.00†	0.000	179.599	7300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7400.00†	0.000	179.599	7400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7500.00†	0.000	179.599	7500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7600.00†	0.000	179.599	7600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7700.00†	0.000	179.599	7700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7800.00†	0.000	179.599	7800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
7900.00†	0.000	179.599	7900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8000.00†	0.000	179.599	8000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8100.00†	0.000	179.599	8100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8200.00†	0.000	179.599	8200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8300.00†	0.000	179.599	8300.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8400.00†	0.000	179.599	8400.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8500.00†	0.000	179.599	8500.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8600.00†	0.000	179.599	8600.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8700.00†	0.000	179.599	8700.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8800.00†	0.000	179.599	8800.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
8900.00†	0.000	179.599	8900.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 6 SHL
Area	Lea County, NM	Well	No. 6
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 6 PWB
Facility	State DR No. 6		

WELLPATH DATA (143 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
9000.00†	0.000	179.599	9000.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
9100.00†	0.000	179.599	9100.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
9200.00†	0.000	179.599	9200.00	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	
9209.20	0.000	179.599	9209.20	0.00	0.00	0.00	712327.80	606759.10	32°40'00.467"N	103°46'39.631"W	0.00	Est. KOP
9300.00†	27.240	179.599	9296.62	21.18	-21.18	0.15	712327.95	606737.92	32°40'00.257"N	103°46'39.630"W	30.00	
9400.00†	57.240	179.599	9369.81	87.64	-87.64	0.61	712328.41	606671.47	32°39'59.600"N	103°46'39.629"W	30.00	
9500.00†	87.240	179.599	9399.96	181.79	-181.79	1.27	712329.07	606577.33	32°39'58.668"N	103°46'39.627"W	30.00	
9507.05	89.356	179.599	9400.17	188.84	-188.84	1.32	712329.12	606570.28	32°39'58.598"N	103°46'39.627"W	30.00	End of Curve
9600.00†	89.356	179.599	9401.22	281.78	-281.77	1.97	712329.77	606477.34	32°39'57.679"N	103°46'39.625"W	0.00	
9700.00†	89.356	179.599	9402.34	381.77	-381.76	2.67	712330.47	606377.36	32°39'56.689"N	103°46'39.623"W	0.00	
9800.00†	89.356	179.599	9403.47	481.77	-481.76	3.37	712331.17	606277.37	32°39'55.700"N	103°46'39.621"W	0.00	
9900.00†	89.356	179.599	9404.59	581.76	-581.75	4.07	712331.87	606177.39	32°39'54.711"N	103°46'39.619"W	0.00	
10000.00†	89.356	179.599	9405.71	681.75	-681.74	4.77	712332.57	606077.40	32°39'53.721"N	103°46'39.617"W	0.00	
10100.00†	89.356	179.599	9406.84	781.75	-781.73	5.47	712333.27	605977.42	32°39'52.732"N	103°46'39.615"W	0.00	
10200.00†	89.356	179.599	9407.96	881.74	-881.72	6.17	712333.97	605877.43	32°39'51.743"N	103°46'39.613"W	0.00	
10300.00†	89.356	179.599	9409.08	981.74	-981.71	6.87	712334.67	605777.45	32°39'50.753"N	103°46'39.611"W	0.00	
10400.00†	89.356	179.599	9410.21	1081.73	-1081.70	7.57	712335.37	605677.46	32°39'49.764"N	103°46'39.609"W	0.00	
10500.00†	89.356	179.599	9411.33	1181.72	-1181.69	8.27	712336.06	605577.48	32°39'48.774"N	103°46'39.607"W	0.00	
10600.00†	89.356	179.599	9412.46	1281.72	-1281.69	8.96	712336.76	605477.49	32°39'47.785"N	103°46'39.604"W	0.00	
10700.00†	89.356	179.599	9413.58	1381.71	-1381.68	9.66	712337.46	605377.51	32°39'46.796"N	103°46'39.602"W	0.00	
10800.00†	89.356	179.599	9414.70	1481.70	-1481.67	10.36	712338.16	605277.52	32°39'45.806"N	103°46'39.600"W	0.00	
10900.00†	89.356	179.599	9415.83	1581.70	-1581.66	11.06	712338.86	605177.53	32°39'44.817"N	103°46'39.598"W	0.00	
11000.00†	89.356	179.599	9416.95	1681.69	-1681.65	11.76	712339.56	605077.55	32°39'43.827"N	103°46'39.596"W	0.00	
11100.00†	89.356	179.599	9418.07	1781.69	-1781.64	12.46	712340.26	604977.56	32°39'42.838"N	103°46'39.594"W	0.00	
11200.00†	89.356	179.599	9419.20	1881.68	-1881.63	13.16	712340.96	604877.58	32°39'41.849"N	103°46'39.592"W	0.00	
11300.00†	89.356	179.599	9420.32	1981.67	-1981.62	13.86	712341.66	604777.59	32°39'40.859"N	103°46'39.590"W	0.00	
11400.00†	89.356	179.599	9421.44	2081.67	-2081.62	14.56	712342.36	604677.61	32°39'39.870"N	103°46'39.588"W	0.00	
11500.00†	89.356	179.599	9422.57	2181.66	-2181.61	15.26	712343.06	604577.62	32°39'38.881"N	103°46'39.586"W	0.00	
11600.00†	89.356	179.599	9423.69	2281.65	-2281.60	15.96	712343.76	604477.64	32°39'37.891"N	103°46'39.584"W	0.00	
11700.00†	89.356	179.599	9424.82	2381.65	-2381.59	16.66	712344.46	604377.65	32°39'36.902"N	103°46'39.582"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 6 SHL
Area	Lea County, NM	Well	No. 6
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 6 PWB
Facility	State DR No. 6		

WELLPATH DATA (143 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
11800.00†	89.356	179.599	9425.94	2481.64	-2481.58	17.36	712345.16	604277.67	32°39'35.912"N	103°46'39.580"W	0.00	
11900.00†	89.356	179.599	9427.06	2581.63	-2581.57	18.06	712345.86	604177.68	32°39'34.923"N	103°46'39.578"W	0.00	
12000.00†	89.356	179.599	9428.19	2681.63	-2681.56	18.76	712346.55	604077.70	32°39'33.934"N	103°46'39.576"W	0.00	
12100.00†	89.356	179.599	9429.31	2781.62	-2781.55	19.45	712347.25	603977.71	32°39'32.944"N	103°46'39.574"W	0.00	
12200.00†	89.356	179.599	9430.43	2881.62	-2881.55	20.15	712347.95	603877.73	32°39'31.955"N	103°46'39.572"W	0.00	
12300.00†	89.356	179.599	9431.56	2981.61	-2981.54	20.85	712348.65	603777.74	32°39'30.966"N	103°46'39.569"W	0.00	
12400.00†	89.356	179.599	9432.68	3081.60	-3081.53	21.55	712349.35	603677.76	32°39'29.976"N	103°46'39.567"W	0.00	
12500.00†	89.356	179.599	9433.80	3181.60	-3181.52	22.25	712350.05	603577.77	32°39'28.987"N	103°46'39.565"W	0.00	
12600.00†	89.356	179.599	9434.93	3281.59	-3281.51	22.95	712350.75	603477.78	32°39'27.997"N	103°46'39.563"W	0.00	
12700.00†	89.356	179.599	9436.05	3381.58	-3381.50	23.65	712351.45	603377.80	32°39'27.008"N	103°46'39.561"W	0.00	
12800.00†	89.356	179.599	9437.18	3481.58	-3481.49	24.35	712352.15	603277.81	32°39'26.019"N	103°46'39.559"W	0.00	
12900.00†	89.356	179.599	9438.30	3581.57	-3581.48	25.05	712352.85	603177.83	32°39'25.029"N	103°46'39.557"W	0.00	
13000.00†	89.356	179.599	9439.42	3681.57	-3681.48	25.75	712353.55	603077.84	32°39'24.040"N	103°46'39.555"W	0.00	
13100.00†	89.356	179.599	9440.55	3781.56	-3781.47	26.45	712354.25	602977.86	32°39'23.050"N	103°46'39.553"W	0.00	
13200.00†	89.356	179.599	9441.67	3881.55	-3881.46	27.15	712354.95	602877.87	32°39'22.061"N	103°46'39.551"W	0.00	
13300.00†	89.356	179.599	9442.79	3981.55	-3981.45	27.85	712355.65	602777.89	32°39'21.072"N	103°46'39.549"W	0.00	
13400.00†	89.356	179.599	9443.92	4081.54	-4081.44	28.55	712356.34	602677.90	32°39'20.082"N	103°46'39.547"W	0.00	
13500.00†	89.356	179.599	9445.04	4181.53	-4181.43	29.25	712357.04	602577.92	32°39'19.093"N	103°46'39.545"W	0.00	
13600.00†	89.356	179.599	9446.17	4281.53	-4281.42	29.95	712357.74	602477.93	32°39'18.104"N	103°46'39.543"W	0.00	
13700.00†	89.356	179.599	9447.29	4381.52	-4381.41	30.64	712358.44	602377.95	32°39'17.114"N	103°46'39.541"W	0.00	
13800.00†	89.356	179.599	9448.41	4481.51	-4481.41	31.34	712359.14	602277.96	32°39'16.125"N	103°46'39.539"W	0.00	
13900.00†	89.356	179.599	9449.54	4581.51	-4581.40	32.04	712359.84	602177.98	32°39'15.135"N	103°46'39.537"W	0.00	
13941.25	89.356	179.599	9450.00†	4622.76	-4622.64	32.33	712360.13	602136.73	32°39'14.727"N	103°46'39.536"W	0.00	No. 6 PBHL



Planned Wellpath Report

Prelim 1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 6 SHL
Area	Lea County, NM	Well	No. 6
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 6 PWB
Facility	State DR No. 6		

HOLE & CASING SECTIONS Ref Wellbore: No. 6 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 Surface	0.00	4800.00	4800.00	0.00	4800.00	0.00	0.00	0.00	0.00
7in Casing Intermediate	0.00	9000.00	9000.00	0.00	9000.00	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. 6 PBHL	13941.25	9450.00	4622.64	32.33	712360.13	602136.73	32°39'14.727"N	103°46'39.536"W	point

SURVEY PROGRAM Ref Wellbore: No. 6 PWB Ref Wellpath: Prelim 1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13941.25	NaviTrak (Standard)		No. 6 PWB