

HOBBS OCD

OIL CONSERVATION DIVISION

JUL 29 2011

1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS 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 C : 660 feet from the North line and 1980 feet from the West line

Section 16 Township 19S Range 32E NMPM County Lea

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

3627' 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 ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐

OTHER:

PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐Change Location ☒

SUBSEQUENT REPORT OF:

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

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.

Permitted Location

16-19S-32E

SHL 660 FNL & 1980 FWL

BHL 660 FSL & 1980 FWL

Lea County, NM

*New Proposed Location *

16-19S-32E

SHL 330 FNL & 1980 FWL

BHL 330 FSL & 1980 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, 2011Type 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

DISTRICT II
1301 W. Grand Avenue, 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 Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

HOBBS OGD
SHL

CONSERVATION DIVISION

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

JUL 29 2011

WELL LOCATION AND ACREAGE DEDICATION PLAT

☒ AMENDED REPORT

RECEIVED

API Number 30-025-39793	Pool Code 41442	Pool Name Lusk; Bone Spring, East
Property Code 21762	Property Name STATE DR COM	Well Number 7
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3627'

Surface Location

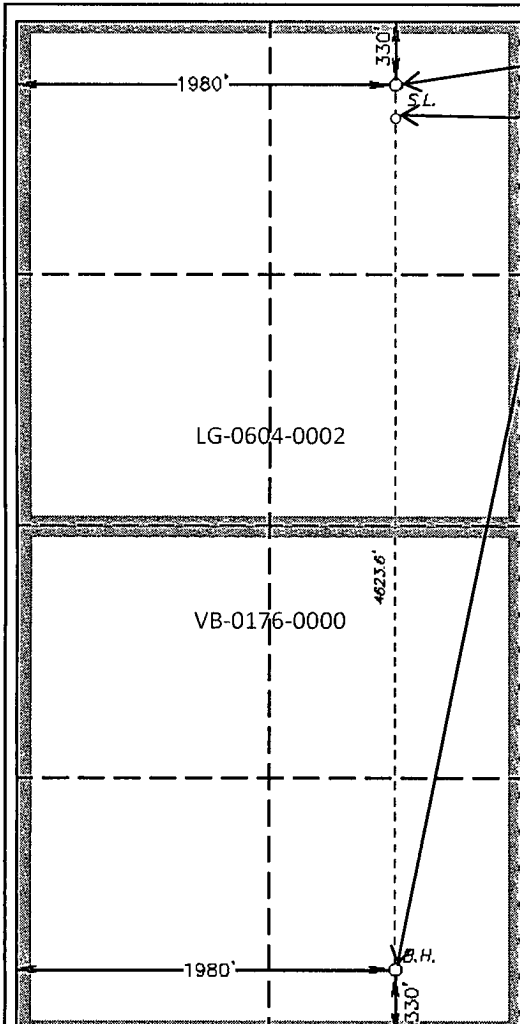
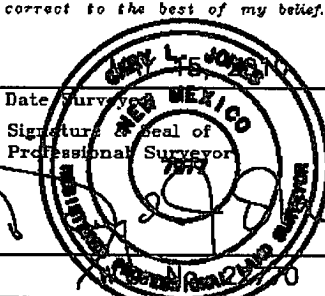
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	16	19 S	32 E		330	NORTH	1980	WEST	LEA

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
N	16	19 S	32 E		330	SOUTH	1980	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

	State DR Com 7 SHL/PP Bone Spring 330 FNL & 1980 FWL EOC/Beg of Prod Interval 519 FNL & 1980 FWL BHL/End of Prod Interval 330 FSL & 1980 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 as 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 Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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Cimarex Energy Co.

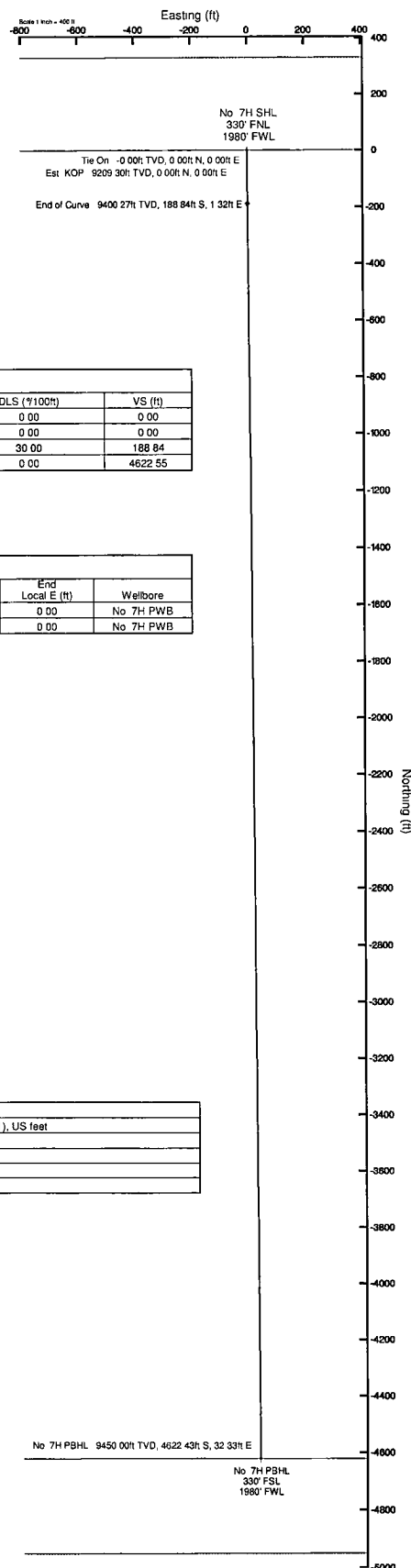
Location Lea County, NM
Field (State DR) Sec 16, T19S, R32E
Facility State DR No 7H

Slot No 7H SHL
Well No 7H
Wellbore No 7H PWB

HOBBS OCD

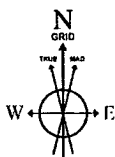
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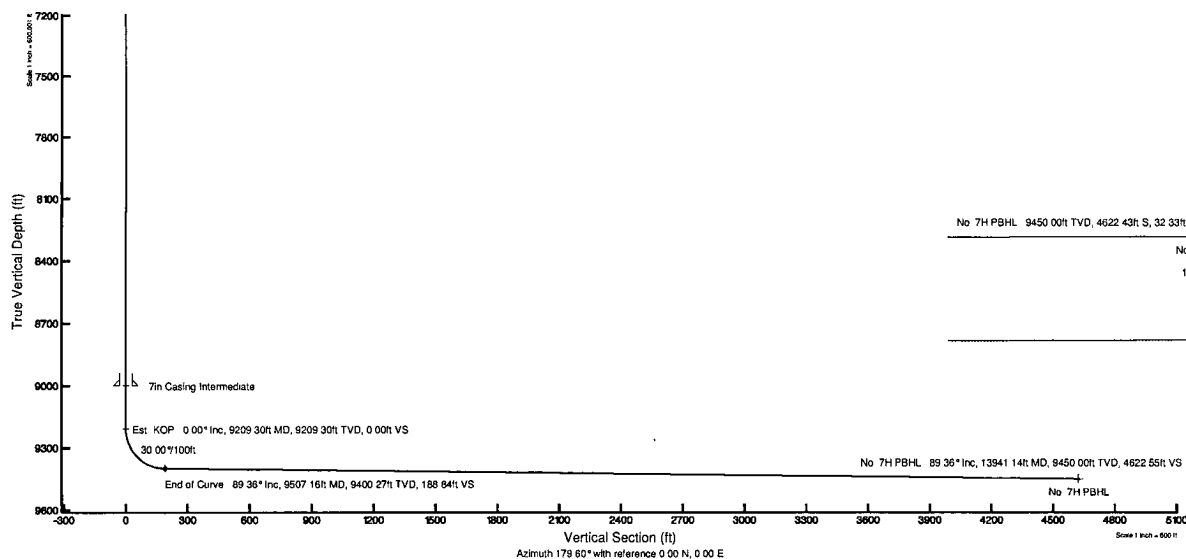
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.599	0.00	0.00	0.00	0.00	0.00
Est KOP	9209.30	0.000	179.599	9209.30	0.00	0.00	0.00	0.00
End of Curve	9507.16	89.357	179.599	9400.27	-188.84	1.32	30.00	188.84
No 7H PWB	13941.14	89.357	179.599	9450.00	-4622.43	32.33	0.00	4622.55

Hole and Casing Sections									
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (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



BGGM (1945.0 to 2011.0) Dip 60.60° Field 49028 nT
Magnetic North is 7.88 degrees East of True North (at 6/8/2010)
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 7.57 degrees
For example: If the Magnetic North Azimuth = 80 degs, then the Grid North Azimuth = 80 + 7.57 = 87.57

Plot reference wellpath is Prelim 1	
True vertical depths are referenced to Rig on No 7H SHL (GL)	Grid System NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 7H SHL (GL)	North Reference Grid north
Rig on No 7H SHL (GL) to Mean Sea Level 3627 feet	Scale True distance
Mean Sea Level to Mud line (Facility State DR No 7H) -3627 feet	Depths are in feet
Coordinates are in feet referenced to Slot Location	Created by Roland Flores on 6/8/2010





Planned Wellpath Report

Prelim 1

Page 1 of 5



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 7H PWB
Facility	State DR No. 7H		

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	6/8/2010 at 9:30:25 AM
Convergence at slot	0.30° East	Database/Source file	WA Midland/No. 7H_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	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W
Facility Reference Pt			713647.50	606761.90	32°40'00.426"N	103°46'24.193"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. 7H SHL (GL) to Ground Level	0.00ft
Horizontal Reference Pt	Slot Location	Rig on No. 7H SHL (GL) to Mean Sea Level	3627.00ft
Vertical Reference Pt	Rig on No. 7H SHL (GL)	Ground Level to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 7H 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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REFERENCE WELLPATH IDENTIFICATION			
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Area	Lea County, NM	Well	No. 7H
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 7H PWB
Facility	State DR No. 7H		

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
0.00	0.000	179.599	0.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	Tie On
100.00†	0.000	179.599	100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
200.00†	0.000	179.599	200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
300.00†	0.000	179.599	300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
400.00†	0.000	179.599	400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
500.00†	0.000	179.599	500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
600.00†	0.000	179.599	600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
700.00†	0.000	179.599	700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
800.00†	0.000	179.599	800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
900.00†	0.000	179.599	900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1000.00†	0.000	179.599	1000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1100.00†	0.000	179.599	1100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1200.00†	0.000	179.599	1200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1300.00†	0.000	179.599	1300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1400.00†	0.000	179.599	1400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1500.00†	0.000	179.599	1500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1600.00†	0.000	179.599	1600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1700.00†	0.000	179.599	1700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1800.00†	0.000	179.599	1800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
1900.00†	0.000	179.599	1900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2000.00†	0.000	179.599	2000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2100.00†	0.000	179.599	2100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2200.00†	0.000	179.599	2200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2300.00†	0.000	179.599	2300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2400.00†	0.000	179.599	2400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2500.00†	0.000	179.599	2500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2600.00†	0.000	179.599	2600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2700.00†	0.000	179.599	2700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2800.00†	0.000	179.599	2800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
2900.00†	0.000	179.599	2900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3000.00†	0.000	179.599	3000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3100.00†	0.000	179.599	3100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3200.00†	0.000	179.599	3200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3300.00†	0.000	179.599	3300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3400.00†	0.000	179.599	3400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3500.00†	0.000	179.599	3500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3600.00†	0.000	179.599	3600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3700.00†	0.000	179.599	3700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3800.00†	0.000	179.599	3800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
3900.00†	0.000	179.599	3900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4000.00†	0.000	179.599	4000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4100.00†	0.000	179.599	4100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4200.00†	0.000	179.599	4200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4300.00†	0.000	179.599	4300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4400.00†	0.000	179.599	4400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	



Planned Wellpath Report

Prelim 1
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
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Area	Lea County, NM	Well	No. 7H
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 7H PWB
Facility	State DR No. 7H		

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
4500.00†	0.000	179.599	4500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4600.00†	0.000	179.599	4600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4700.00†	0.000	179.599	4700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4800.00†	0.000	179.599	4800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
4900.00†	0.000	179.599	4900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5000.00†	0.000	179.599	5000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5100.00†	0.000	179.599	5100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5200.00†	0.000	179.599	5200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5300.00†	0.000	179.599	5300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5400.00†	0.000	179.599	5400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5500.00†	0.000	179.599	5500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5600.00†	0.000	179.599	5600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5700.00†	0.000	179.599	5700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5800.00†	0.000	179.599	5800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
5900.00†	0.000	179.599	5900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6000.00†	0.000	179.599	6000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6100.00†	0.000	179.599	6100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6200.00†	0.000	179.599	6200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6300.00†	0.000	179.599	6300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6400.00†	0.000	179.599	6400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6500.00†	0.000	179.599	6500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6600.00†	0.000	179.599	6600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6700.00†	0.000	179.599	6700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6800.00†	0.000	179.599	6800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
6900.00†	0.000	179.599	6900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7000.00†	0.000	179.599	7000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7100.00†	0.000	179.599	7100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7200.00†	0.000	179.599	7200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7300.00†	0.000	179.599	7300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7400.00†	0.000	179.599	7400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7500.00†	0.000	179.599	7500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7600.00†	0.000	179.599	7600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7700.00†	0.000	179.599	7700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7800.00†	0.000	179.599	7800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
7900.00†	0.000	179.599	7900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8000.00†	0.000	179.599	8000.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8100.00†	0.000	179.599	8100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8200.00†	0.000	179.599	8200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8300.00†	0.000	179.599	8300.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8400.00†	0.000	179.599	8400.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8500.00†	0.000	179.599	8500.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8600.00†	0.000	179.599	8600.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8700.00†	0.000	179.599	8700.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8800.00†	0.000	179.599	8800.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
8900.00†	0.000	179.599	8900.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 7H PWB
Facility	State DR No. 7H		

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	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
9100.00†	0.000	179.599	9100.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
9200.00†	0.000	179.599	9200.00	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	
9209.30	0.000	179.599	9209.30	0.00	0.00	0.00	713647.50	606761.90	32°40'00.426"N	103°46'24.193"W	0.00	Est. KOP
9300.00†	27.210	179.599	9296.63	-21.14	-21.13	0.15	713647.65	606740.77	32°40'00.217"N	103°46'24.192"W	30.00	
9400.00†	57.210	179.599	9369.85	87.56	-87.55	0.61	713648.11	606674.35	32°39'59.560"N	103°46'24.191"W	30.00	
9500.00†	87.210	179.599	9400.06	181.69	-181.69	1.27	713648.77	606580.23	32°39'58.628"N	103°46'24.189"W	30.00	
9507.16	89.357	179.599	9400.27	188.84	-188.84	1.32	713648.82	606573.07	32°39'58.557"N	103°46'24.189"W	30.00	End of Curve
9600.00†	89.357	179.599	9401.32	281.68	-281.67	1.97	713649.47	606480.24	32°39'57.639"N	103°46'24.187"W	0.00	
9700.00†	89.357	179.599	9402.44	381.67	-381.66	2.67	713650.17	606380.26	32°39'56.649"N	103°46'24.185"W	0.00	
9800.00†	89.357	179.599	9403.56	481.67	-481.66	3.37	713650.87	606280.27	32°39'55.660"N	103°46'24.183"W	0.00	
9900.00†	89.357	179.599	9404.68	581.66	-581.65	4.07	713651.57	606180.29	32°39'54.671"N	103°46'24.181"W	0.00	
10000.00†	89.357	179.599	9405.80	681.65	-681.64	4.77	713652.27	606080.30	32°39'53.681"N	103°46'24.179"W	0.00	
10100.00†	89.357	179.599	9406.92	781.65	-781.63	5.47	713652.97	605980.32	32°39'52.692"N	103°46'24.177"W	0.00	
10200.00†	89.357	179.599	9408.04	881.64	-881.62	6.17	713653.67	605880.33	32°39'51.703"N	103°46'24.175"W	0.00	
10300.00†	89.357	179.599	9409.17	981.64	-981.61	6.87	713654.37	605780.35	32°39'50.713"N	103°46'24.173"W	0.00	
10400.00†	89.357	179.599	9410.29	1081.63	-1081.60	7.57	713655.06	605680.36	32°39'49.724"N	103°46'24.171"W	0.00	
10500.00†	89.357	179.599	9411.41	1181.62	-1181.59	8.26	713655.76	605580.37	32°39'48.734"N	103°46'24.169"W	0.00	
10600.00†	89.357	179.599	9412.53	1281.62	-1281.59	8.96	713656.46	605480.39	32°39'47.745"N	103°46'24.167"W	0.00	
10700.00†	89.357	179.599	9413.65	1381.61	-1381.58	9.66	713657.16	605380.40	32°39'46.756"N	103°46'24.165"W	0.00	
10800.00†	89.357	179.599	9414.77	1481.60	-1481.57	10.36	713657.86	605280.42	32°39'45.766"N	103°46'24.163"W	0.00	
10900.00†	89.357	179.599	9415.89	1581.60	-1581.56	11.06	713658.56	605180.43	32°39'44.777"N	103°46'24.161"W	0.00	
11000.00†	89.357	179.599	9417.02	1681.59	-1681.55	11.76	713659.26	605080.45	32°39'43.788"N	103°46'24.159"W	0.00	
11100.00†	89.357	179.599	9418.14	1781.59	-1781.54	12.46	713659.96	604980.46	32°39'42.798"N	103°46'24.157"W	0.00	
11200.00†	89.357	179.599	9419.26	1881.58	-1881.53	13.16	713660.66	604880.48	32°39'41.809"N	103°46'24.155"W	0.00	
11300.00†	89.357	179.599	9420.38	1981.57	-1981.52	13.86	713661.36	604780.49	32°39'40.819"N	103°46'24.153"W	0.00	
11400.00†	89.357	179.599	9421.50	2081.57	-2081.52	14.56	713662.06	604680.51	32°39'39.830"N	103°46'24.151"W	0.00	
11500.00†	89.357	179.599	9422.62	2181.56	-2181.51	15.26	713662.76	604580.52	32°39'38.841"N	103°46'24.149"W	0.00	
11600.00†	89.357	179.599	9423.74	2281.55	-2281.50	15.96	713663.46	604480.54	32°39'37.851"N	103°46'24.147"W	0.00	
11700.00†	89.357	179.599	9424.87	2381.55	-2381.49	16.66	713664.16	604380.55	32°39'36.862"N	103°46'24.145"W	0.00	
11800.00†	89.357	179.599	9425.99	2481.54	-2481.48	17.36	713664.86	604280.57	32°39'35.872"N	103°46'24.143"W	0.00	
11900.00†	89.357	179.599	9427.11	2581.54	-2581.47	18.06	713665.56	604180.58	32°39'34.883"N	103°46'24.141"W	0.00	
12000.00†	89.357	179.599	9428.23	2681.53	-2681.46	18.76	713666.25	604080.59	32°39'33.894"N	103°46'24.139"W	0.00	
12100.00†	89.357	179.599	9429.35	2781.52	-2781.45	19.46	713666.95	603980.61	32°39'32.904"N	103°46'24.137"W	0.00	
12200.00†	89.357	179.599	9430.47	2881.52	-2881.45	20.15	713667.65	603880.62	32°39'31.915"N	103°46'24.135"W	0.00	
12300.00†	89.357	179.599	9431.60	2981.51	-2981.44	20.85	713668.35	603780.64	32°39'30.926"N	103°46'24.133"W	0.00	
12400.00†	89.357	179.599	9432.72	3081.50	-3081.43	21.55	713669.05	603680.65	32°39'29.936"N	103°46'24.131"W	0.00	
12500.00†	89.357	179.599	9433.84	3181.50	-3181.42	22.25	713669.75	603580.67	32°39'28.947"N	103°46'24.129"W	0.00	
12600.00†	89.357	179.599	9434.96	3281.49	-3281.41	22.95	713670.45	603480.68	32°39'27.957"N	103°46'24.127"W	0.00	
12700.00†	89.357	179.599	9436.08	3381.49	-3381.40	23.65	713671.15	603380.70	32°39'26.968"N	103°46'24.124"W	0.00	
12800.00†	89.357	179.599	9437.20	3481.48	-3481.39	24.35	713671.85	603280.71	32°39'25.979"N	103°46'24.122"W	0.00	
12900.00†	89.357	179.599	9438.32	3581.47	-3581.39	25.05	713672.55	603180.73	32°39'24.989"N	103°46'24.120"W	0.00	
13000.00†	89.357	179.599	9439.45	3681.47	-3681.38	25.75	713673.25	603080.74	32°39'24.000"N	103°46'24.118"W	0.00	
13100.00†	89.357	179.599	9440.57	3781.46	-3781.37	26.45	713673.95	602980.76	32°39'23.011"N	103°46'24.116"W	0.00	
13200.00†	89.357	179.599	9441.69	3881.45	-3881.36	27.15	713674.65	602880.77	32°39'22.021"N	103°46'24.114"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 7H SHL
Area	Lea County, NM	Well	No. 7H
Field	(State DR) Sec 16, T19S, R32E	Wellbore	No. 7H PWB
Facility	State DR No. 7H		

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
13300.00†	89.357	179.599	9442.81	3981.45	-3981.35	27.85	713675.35	602780.78	32°39'21.032"N	103°46'24.112"W	0.00	
13400.00†	89.357	179.599	9443.93	4081.44	-4081.34	28.55	713676.05	602680.80	32°39'20.042"N	103°46'24.110"W	0.00	
13500.00†	89.357	179.599	9445.05	4181.43	-4181.33	29.25	713676.74	602580.81	32°39'19.053"N	103°46'24.108"W	0.00	
13600.00†	89.357	179.599	9446.17	4281.43	-4281.32	29.95	713677.44	602480.83	32°39'18.064"N	103°46'24.106"W	0.00	
13700.00†	89.357	179.599	9447.30	4381.42	-4381.32	30.65	713678.14	602380.84	32°39'17.074"N	103°46'24.104"W	0.00	
13800.00†	89.357	179.599	9448.42	4481.42	-4481.31	31.34	713678.84	602280.86	32°39'16.085"N	103°46'24.102"W	0.00	
13900.00†	89.357	179.599	9449.54	4581.41	-4581.30	32.04	713679.54	602180.87	32°39'15.095"N	103°46'24.100"W	0.00	
13941.14	89.357	179.599	9450.00†	4622.55	-4622.43	32.33	713679.83	602139.74	32°39'14.688"N	103°46'24.100"W	0.00	No. 7H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 7H 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. 7H PBHL	13941.14	9450.00	-4622.43	32.33	713679.83	602139.74	32°39'14.688"N	103°46'24.100"W	point

SURVEY PROGRAM Ref Wellbore: No. 7H PWB Ref Wellpath: Prelim 1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13941.14	NaviTrak (Standard)		No. 7H PWB