

JUL 05 2011

DISTRICT I

1825 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 E. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

OIL CONSERVATION DIVISION

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

Form C-102

Revised October 15, 2009

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

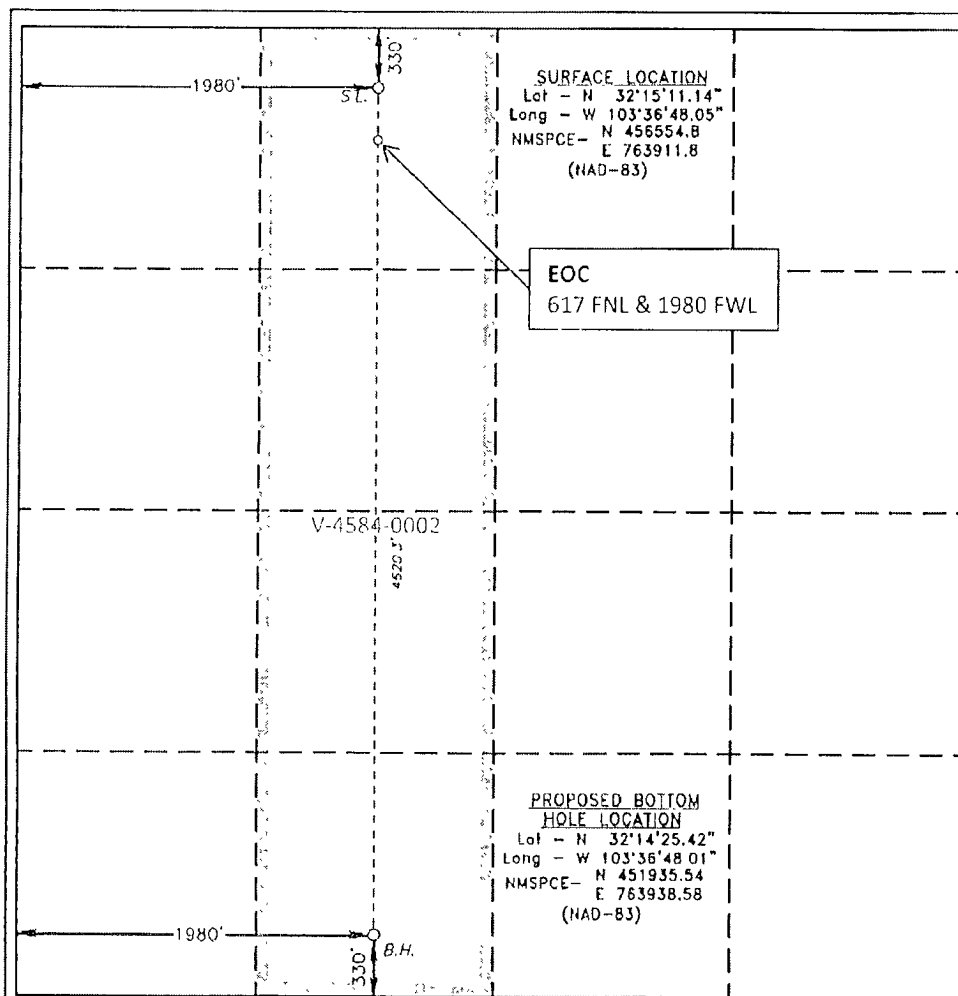
API Number 30-025-40183	Pool Code 96674	Pool Name Triple X; Bone Spring, West
Property Code 29822	Property Name TRES EQUIS STATE	Well Number 2H
OCRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3649'

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	6	24 S	33 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	6	24 S	33 E		330	SOUTH	1980	WEST	LEA
Dedicated Acres 159.94	Joint or Infill	Consolidation Code	Order No.						

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

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 7/1/2011
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.

GARY L. JONES
Date Surveyed
Signature & Seal of Professional Surveyor
W.O. No. 7977

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

JUL 06 2011



Cimarex Energy Co.

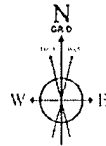
Location Lea County, NM
Field (Tres Equis) Sec 6, T24S, R33E
Facility Tres Equis State 2H

Slot: No 2HSHL
Well No 2H
Wellbore No 2H PVB



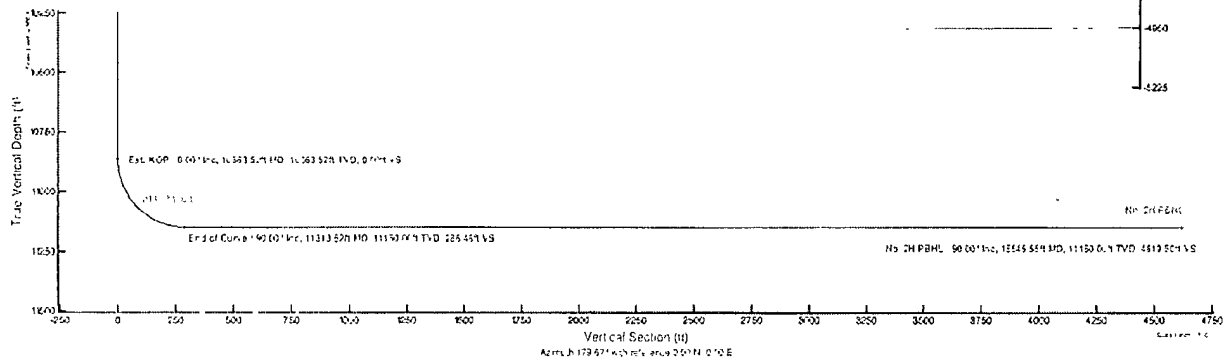
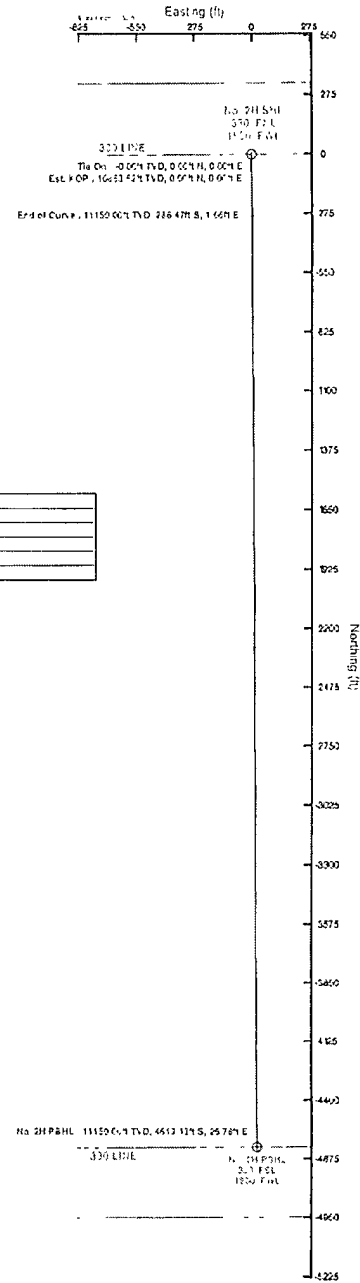
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local H (ft)	Local E (ft)	DLS (%100ft)	VS (ft)
Tie On	0.00	0.000	179.668	0.00	0.00	0.00	0.00	0.00
Est KOP	13863.52	0.000	179.668	10863.52	0.00	0.00	0.00	0.00
End of Curve	11313.52	90.000	179.668	11150.00	-286.47	1.66	20.00	286.48
No 2H PVBH	15616.55	50.000	179.668	11150.00	-4619.43	26.78	0.00	4619.50



Computed from survey data for well No. 2HSHL
Tie On = 13863.52 ft MD, 0.000° Inc, 179.668° Az (10/24/2011)
End of Curve = 11313.52 ft MD, 90.000° Inc, 179.668° Az
To correct azimuth from magnetic to true, add 7.26° (10/24/2011)
For example, if magnetic azimuth = 90.000°, then true azimuth = 97.26° (10/24/2011)

Revised: 01/24/2012	By: J. L. Smith
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Planned Wellpath Report

Prelim_1
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REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 2H PWB
Facility	Tres Equis State 2H		

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	Callphik
Scale	0.999966	Report Generated	6/30/2011 at 11:04:54 AM
Convergence at slot	0.38° East	Database/Source file	WA Midland/No. 2H_PWB.xml

WELL PATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W
Facility Reference Pt			763911.80	456554.80	32°15'11.134"N	103°36'48.051"W
Field Reference Pt			763911.80	456554.80	32°15'11.134"N	103°36'48.051"W

WELL PATH SUMMARY			
Calculation method	Minimum curvature	Rig on No. 2H SHL (KB) to GL	3649.00ft
Horizontal Reference Pt	Slot	Rig on No. 2H SHL (KB) to Mean Sea Level	3649.00ft
Vertical Reference Pt	Rig on No. 2H SHL (KB)	Rig on No. 2H SHL (KB) to Mud Line at Slot (No. 2H SHL)	3649.00ft
MD Reference Pt	Rig on No. 2H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.67°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 2H PWB
Facility	Tres Equis State 2H		

WELLPATH DATA (162 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	179.668	0.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	Tie On
100.00†	0.000	179.668	100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
200.00†	0.000	179.668	200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
300.00†	0.000	179.668	300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
400.00†	0.000	179.668	400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
500.00†	0.000	179.668	500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
600.00†	0.000	179.668	600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
700.00†	0.000	179.668	700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
800.00†	0.000	179.668	800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
900.00†	0.000	179.668	900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1000.00†	0.000	179.668	1000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1100.00†	0.000	179.668	1100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1200.00†	0.000	179.668	1200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1300.00†	0.000	179.668	1300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1400.00†	0.000	179.668	1400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1500.00†	0.000	179.668	1500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1600.00†	0.000	179.668	1600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1700.00†	0.000	179.668	1700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1800.00†	0.000	179.668	1800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
1900.00†	0.000	179.668	1900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2000.00†	0.000	179.668	2000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2100.00†	0.000	179.668	2100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2200.00†	0.000	179.668	2200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2300.00†	0.000	179.668	2300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2400.00†	0.000	179.668	2400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2500.00†	0.000	179.668	2500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2600.00†	0.000	179.668	2600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2700.00†	0.000	179.668	2700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2800.00†	0.000	179.668	2800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
2900.00†	0.000	179.668	2900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3000.00†	0.000	179.668	3000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3100.00†	0.000	179.668	3100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3200.00†	0.000	179.668	3200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3300.00†	0.000	179.668	3300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3400.00†	0.000	179.668	3400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3500.00†	0.000	179.668	3500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3600.00†	0.000	179.668	3600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3700.00†	0.000	179.668	3700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3800.00†	0.000	179.668	3800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
3900.00†	0.000	179.668	3900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4000.00†	0.000	179.668	4000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4100.00†	0.000	179.668	4100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4200.00†	0.000	179.668	4200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4300.00†	0.000	179.668	4300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4400.00†	0.000	179.668	4400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	



Planned Wellpath Report

Prelim_1
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REFERENCE DATA (DO NOT EDIT THIS INFORMATION)			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 2H PWB
Facility	Tres Equis State 2H		

WELLPATH DATA (162 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	179.668	4500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4600.00†	0.000	179.668	4600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4700.00†	0.000	179.668	4700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4800.00†	0.000	179.668	4800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
4900.00†	0.000	179.668	4900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5000.00†	0.000	179.668	5000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5100.00†	0.000	179.668	5100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5200.00†	0.000	179.668	5200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5300.00†	0.000	179.668	5300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5400.00†	0.000	179.668	5400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5500.00†	0.000	179.668	5500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5600.00†	0.000	179.668	5600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5700.00†	0.000	179.668	5700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5800.00†	0.000	179.668	5800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
5900.00†	0.000	179.668	5900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6000.00†	0.000	179.668	6000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6100.00†	0.000	179.668	6100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6200.00†	0.000	179.668	6200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6300.00†	0.000	179.668	6300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6400.00†	0.000	179.668	6400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6500.00†	0.000	179.668	6500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6600.00†	0.000	179.668	6600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6700.00†	0.000	179.668	6700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6800.00†	0.000	179.668	6800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
6900.00†	0.000	179.668	6900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7000.00†	0.000	179.668	7000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7100.00†	0.000	179.668	7100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7200.00†	0.000	179.668	7200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7300.00†	0.000	179.668	7300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7400.00†	0.000	179.668	7400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7500.00†	0.000	179.668	7500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7600.00†	0.000	179.668	7600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7700.00†	0.000	179.668	7700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7800.00†	0.000	179.668	7800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
7900.00†	0.000	179.668	7900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8000.00†	0.000	179.668	8000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8100.00†	0.000	179.668	8100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8200.00†	0.000	179.668	8200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8300.00†	0.000	179.668	8300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8400.00†	0.000	179.668	8400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8500.00†	0.000	179.668	8500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8600.00†	0.000	179.668	8600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8700.00†	0.000	179.668	8700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8800.00†	0.000	179.668	8800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
8900.00†	0.000	179.668	8900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	



Planned Wellpath Report

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REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 2H PWB
Facility	Tres Equis State 2H		

WELLPATH DATA (162 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
9000.00†	0.000	179.668	9000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9100.00†	0.000	179.668	9100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9200.00†	0.000	179.668	9200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9300.00†	0.000	179.668	9300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9400.00†	0.000	179.668	9400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9500.00†	0.000	179.668	9500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9600.00†	0.000	179.668	9600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9700.00†	0.000	179.668	9700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9800.00†	0.000	179.668	9800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
9900.00†	0.000	179.668	9900.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10000.00†	0.000	179.668	10000.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10080.00†	0.000	179.668	10080.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	1st Bone Spring Shale
10100.00†	0.000	179.668	10100.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10200.00†	0.000	179.668	10200.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10300.00†	0.000	179.668	10300.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10400.00†	0.000	179.668	10400.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10500.00†	0.000	179.668	10500.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10600.00†	0.000	179.668	10600.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10700.00†	0.000	179.668	10700.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10750.00†	0.000	179.668	10750.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	2nd Bone Spring Shale
10800.00†	0.000	179.668	10800.00	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	
10863.52	0.000	179.668	10863.52	0.00	0.00	0.00	763911.80	456554.80	32°15'11.134"N	103°36'48.051"W	0.00	Est KOP
10900.00†	7.296	179.668	10899.90	2.32	-2.32	0.01	763911.81	456552.48	32°15'11.111"N	103°36'48.051"W	20.00	
11000.00†	27.296	179.668	10994.90	31.90	-31.90	0.18	763911.98	456522.90	32°15'10.819"N	103°36'48.051"W	20.00	
11100.00†	47.296	179.668	11074.04	92.18	-92.18	0.53	763912.33	456462.62	32°15'10.222"N	103°36'48.052"W	20.00	
11200.00†	67.296	179.668	11127.80	175.91	-175.90	1.02	763912.82	456378.90	32°15'09.394"N	103°36'48.053"W	20.00	
11300.00†	87.296	179.668	11149.68	272.96	-272.96	1.58	763913.38	456281.85	32°15'08.433"N	103°36'48.054"W	20.00	
11313.52	90.000	179.668	11150.00	286.48	-286.47	1.66	763913.46	456268.34	32°15'08.300"N	103°36'48.054"W	20.00	End of Curve
11400.00†	90.000	179.668	11150.00	372.96	-372.95	2.16	763913.96	456181.86	32°15'07.444"N	103°36'48.055"W	0.00	
11500.00†	90.000	179.668	11150.00	472.96	-472.95	2.74	763914.54	456081.87	32°15'06.454"N	103°36'48.056"W	0.00	
11600.00†	90.000	179.668	11150.00	572.96	-572.95	3.32	763915.12	455981.87	32°15'05.465"N	103°36'48.057"W	0.00	
11700.00†	90.000	179.668	11150.00	672.96	-672.95	3.90	763915.70	455881.88	32°15'04.475"N	103°36'48.058"W	0.00	
11800.00†	90.000	179.668	11150.00	772.96	-772.94	4.48	763916.28	455781.88	32°15'03.486"N	103°36'48.059"W	0.00	
11900.00†	90.000	179.668	11150.00	872.96	-872.94	5.06	763916.86	455681.89	32°15'02.496"N	103°36'48.060"W	0.00	
12000.00†	90.000	179.668	11150.00	972.96	-972.94	5.64	763917.44	455581.89	32°15'01.507"N	103°36'48.061"W	0.00	
12100.00†	90.000	179.668	11150.00	1072.96	-1072.94	6.22	763918.02	455481.90	32°15'00.517"N	103°36'48.062"W	0.00	
12200.00†	90.000	179.668	11150.00	1172.96	-1172.94	6.80	763918.60	455381.90	32°14'59.528"N	103°36'48.063"W	0.00	
12300.00†	90.000	179.668	11150.00	1272.96	-1272.94	7.38	763919.18	455281.91	32°14'58.538"N	103°36'48.064"W	0.00	
12400.00†	90.000	179.668	11150.00	1372.96	-1372.93	7.96	763919.76	455181.91	32°14'57.549"N	103°36'48.066"W	0.00	
12500.00†	90.000	179.668	11150.00	1472.96	-1472.93	8.54	763920.34	455081.92	32°14'56.559"N	103°36'48.067"W	0.00	
12600.00†	90.000	179.668	11150.00	1572.96	-1572.93	9.12	763920.92	454981.93	32°14'55.570"N	103°36'48.068"W	0.00	
12700.00†	90.000	179.668	11150.00	1672.96	-1672.93	9.70	763921.50	454881.93	32°14'54.580"N	103°36'48.069"W	0.00	
12800.00†	90.000	179.668	11150.00	1772.96	-1772.93	10.28	763922.08	454781.94	32°14'53.591"N	103°36'48.070"W	0.00	
12900.00†	90.000	179.668	11150.00	1872.96	-1872.93	10.86	763922.66	454681.94	32°14'52.601"N	103°36'48.071"W	0.00	
13000.00†	90.000	179.668	11150.00	1972.96	-1972.92	11.44	763923.24	454581.95	32°14'51.612"N	103°36'48.072"W	0.00	



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REFERENCE AND IDENTIFICATION INFORMATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 2H PWB
Facility	Tres Equis State 2H		

WELLPATH DATA (162 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
13100.00†	90.000	179.668	11150.00	2072.96	-2072.92	12.02	763923.82	454481.95	32°14'50.622"N	103°36'48.073"W	0.00	
13200.00†	90.000	179.668	11150.00	2172.96	-2172.92	12.60	763924.40	454381.96	32°14'49.633"N	103°36'48.074"W	0.00	
13300.00†	90.000	179.668	11150.00	2272.96	-2272.92	13.18	763924.98	454281.96	32°14'48.643"N	103°36'48.075"W	0.00	
13400.00†	90.000	179.668	11150.00	2372.96	-2372.92	13.76	763925.56	454181.97	32°14'47.654"N	103°36'48.076"W	0.00	
13500.00†	90.000	179.668	11150.00	2472.96	-2472.92	14.34	763926.14	454081.97	32°14'46.664"N	103°36'48.077"W	0.00	
13600.00†	90.000	179.668	11150.00	2572.96	-2572.91	14.92	763926.72	453981.98	32°14'45.675"N	103°36'48.078"W	0.00	
13700.00†	90.000	179.668	11150.00	2672.96	-2672.91	15.50	763927.30	453881.98	32°14'44.685"N	103°36'48.079"W	0.00	
13800.00†	90.000	179.668	11150.00	2772.96	-2772.91	16.08	763927.88	453781.99	32°14'43.696"N	103°36'48.080"W	0.00	
13900.00†	90.000	179.668	11150.00	2872.96	-2872.91	16.66	763928.45	453681.99	32°14'42.706"N	103°36'48.081"W	0.00	
14000.00†	90.000	179.668	11150.00	2972.96	-2972.91	17.24	763929.03	453582.00	32°14'41.717"N	103°36'48.082"W	0.00	
14100.00†	90.000	179.668	11150.00	3072.96	-3072.91	17.82	763929.61	453482.00	32°14'40.727"N	103°36'48.084"W	0.00	
14200.00†	90.000	179.668	11150.00	3172.96	-3172.90	18.39	763930.19	453382.01	32°14'39.738"N	103°36'48.085"W	0.00	
14300.00†	90.000	179.668	11150.00	3272.96	-3272.90	18.97	763930.77	453282.02	32°14'38.748"N	103°36'48.086"W	0.00	
14400.00†	90.000	179.668	11150.00	3372.96	-3372.90	19.55	763931.35	453182.02	32°14'37.759"N	103°36'48.087"W	0.00	
14500.00†	90.000	179.668	11150.00	3472.96	-3472.90	20.13	763931.93	453082.03	32°14'36.769"N	103°36'48.088"W	0.00	
14600.00†	90.000	179.668	11150.00	3572.96	-3572.90	20.71	763932.51	452982.03	32°14'35.780"N	103°36'48.089"W	0.00	
14700.00†	90.000	179.668	11150.00	3672.96	-3672.90	21.29	763933.09	452882.04	32°14'34.790"N	103°36'48.090"W	0.00	
14800.00†	90.000	179.668	11150.00	3772.96	-3772.89	21.87	763933.67	452782.04	32°14'33.801"N	103°36'48.091"W	0.00	
14900.00†	90.000	179.668	11150.00	3872.96	-3872.89	22.45	763934.25	452682.05	32°14'32.811"N	103°36'48.092"W	0.00	
15000.00†	90.000	179.668	11150.00	3972.96	-3972.89	23.03	763934.83	452582.05	32°14'31.822"N	103°36'48.093"W	0.00	
15100.00†	90.000	179.668	11150.00	4072.96	-4072.89	23.61	763935.41	452482.06	32°14'30.832"N	103°36'48.094"W	0.00	
15200.00†	90.000	179.668	11150.00	4172.96	-4172.89	24.19	763935.99	452382.06	32°14'29.843"N	103°36'48.095"W	0.00	
15300.00†	90.000	179.668	11150.00	4272.96	-4272.89	24.77	763936.57	452282.07	32°14'28.853"N	103°36'48.096"W	0.00	
15400.00†	90.000	179.668	11150.00	4372.96	-4372.88	25.35	763937.15	452182.07	32°14'27.863"N	103°36'48.097"W	0.00	
15500.00†	90.000	179.668	11150.00	4472.96	-4472.88	25.93	763937.73	452082.08	32°14'26.874"N	103°36'48.098"W	0.00	
15600.00†	90.000	179.668	11150.00	4572.96	-4572.88	26.51	763938.31	451982.08	32°14'25.884"N	103°36'48.099"W	0.00	
15646.55	90.000	179.668	11150.00	4619.50	-4619.43	26.78	763938.58	451935.54	32°14'25.424"N	103°36'48.100"W	0.00	No. 2H PBHL

HOLE & CASING SECTIONS - Ref Wellbore: No. 2H 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]
12.25in Open Hole	0.00	4900.00	4900.00	0.00	4900.00	0.00	0.00	0.00	0.00
9.625in Casing	0.00	4900.00	4900.00	0.00	4900.00	0.00	0.00	0.00	0.00
8.75in Open Hole	4900.00	15646.55	10746.55	4900.00	NA	0.00	0.00	NA	NA
5.5in Casing	0.00	15646.55	15646.55	0.00	NA	0.00	0.00	NA	NA



Planned Wellpath Report

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REFERENCE WELLBORE NUMBER AND LOCATION			
Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 2H PWB
Facility	Tres Equis State 2H		

TARGETS									
Name	MD [ft]	TYD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 2H PBHL	15646.55	11150.00	-4619.43	26.78	763938.58	451935.54	32°14'25.424"N	103°36'48.100"W	point

SURVEY PROGRAM - Ref Wellbore: No. 2H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3649.00	15646.55	NaviTrak (Standard)		No. 2H PWB