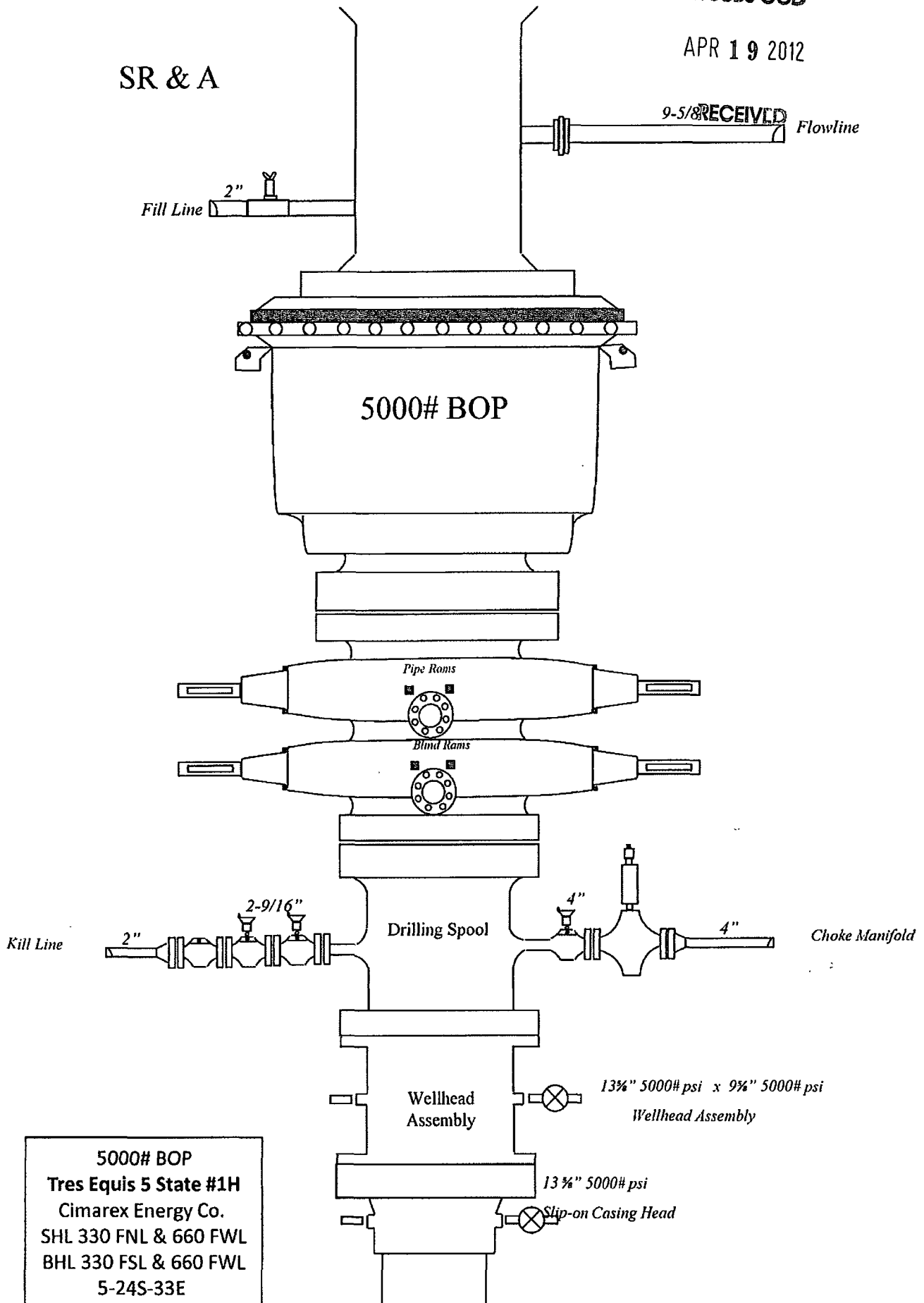


30-025-40532

HOBBS OCD

APR 19 2012

SR & A



5000# BOP
 Tres Equis 5 State #1H
 Cimarex Energy Co.
 SHL 330 FNL & 660 FWL
 BHL 330 FSL & 660 FWL
 5-24S-33E
 Eddy County, NM

APR 23 2012

Drilling Operations

Choke Manifold

5M Service

Choke Manifold Diagram

5000# BOP

Tres Equis 5 State #1H

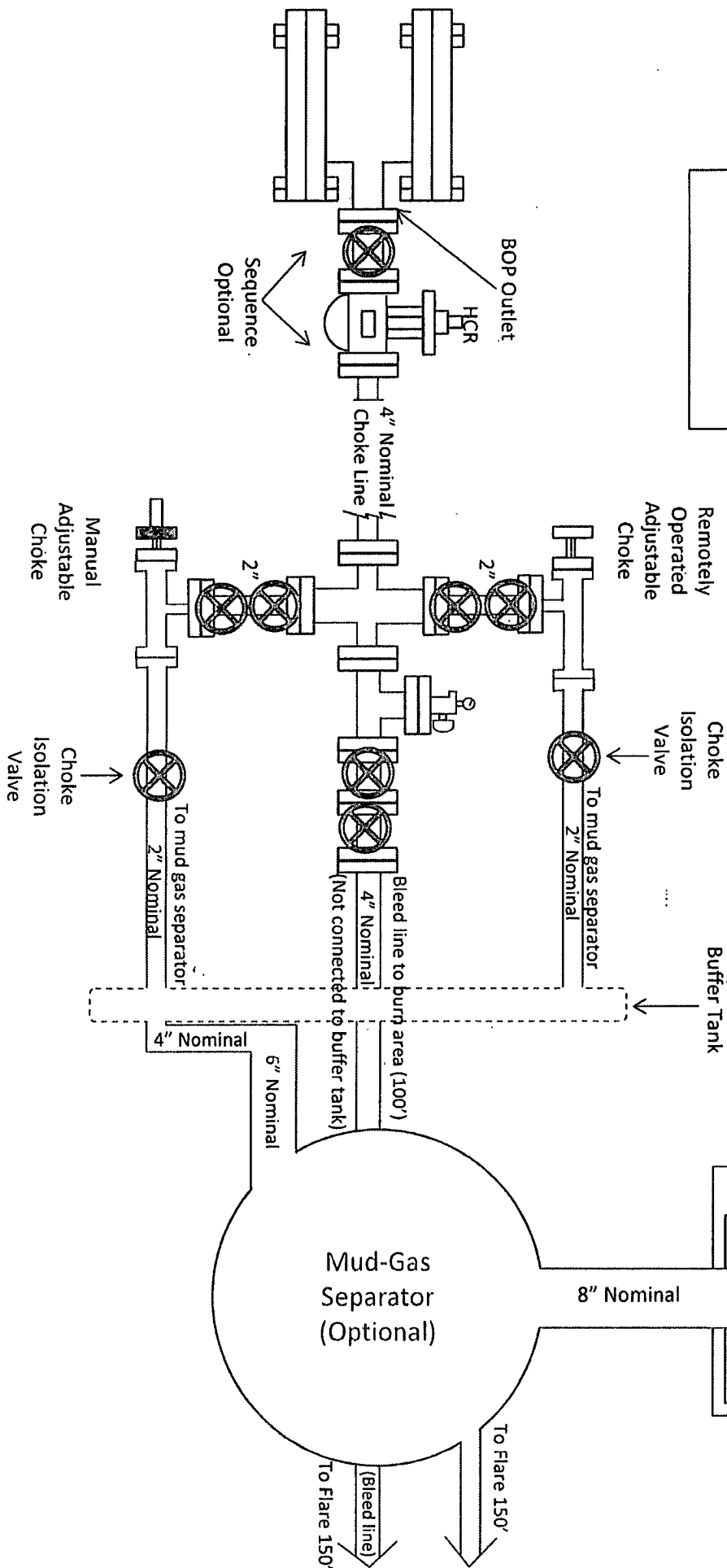
Cimarex Energy Co.

SHL 330 FNL & 660 FWL

BHL 330 FSL & 660 FWL

5-24S-33E

Eddy County, NM





Cimarex Energy Co.

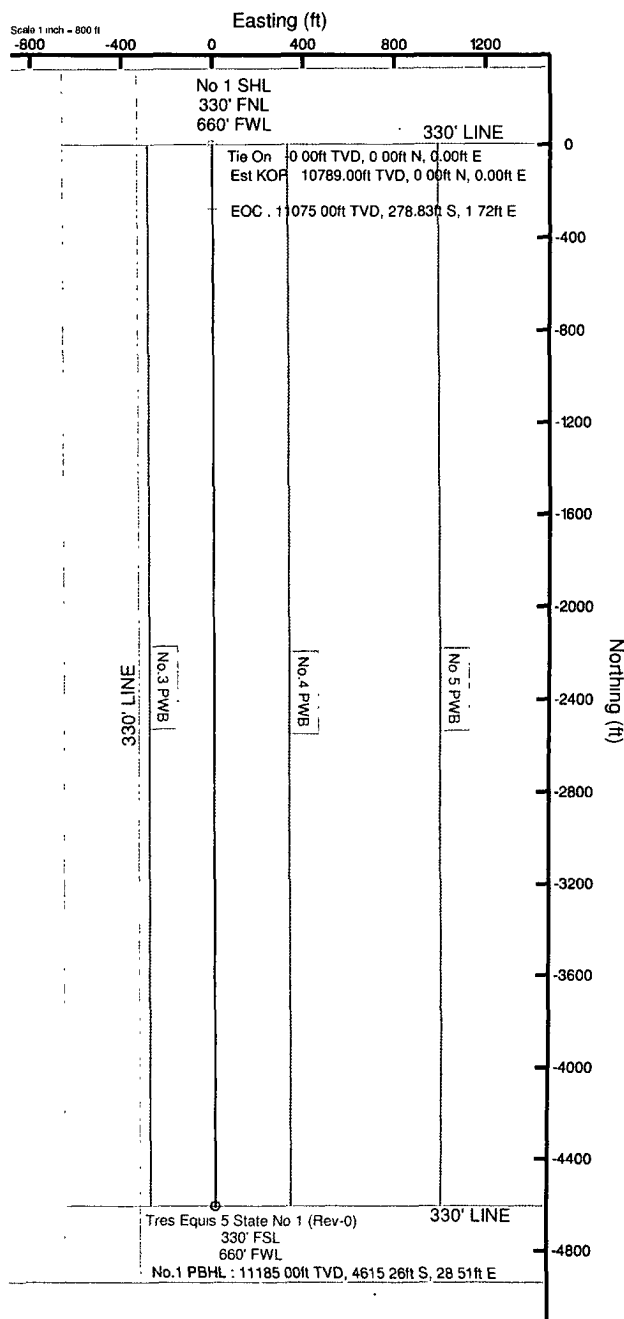
Location: Lea County, NM
Field: (Tres Equis) Sec 6, T24S, R33E
Facility: Tres Equis 5 State No.1

Slot: No.1 SHL
Well: No.1
Wellbore: No.1 PWB



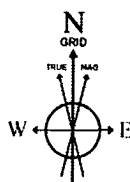
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.646	0.00	0.00	0.00	0.00	0.00
Est KOP	10789.00	0.000	179.646	10789.00	0.00	0.00	0.00	0.00
EOC	11231.14	88.547	179.646	11075.00	-278.83	1.72	20.03	278.84
No.1 PBHL	15569.04	88.547	179.646	11185.00	-4615.26	28.51	0.00	4615.35

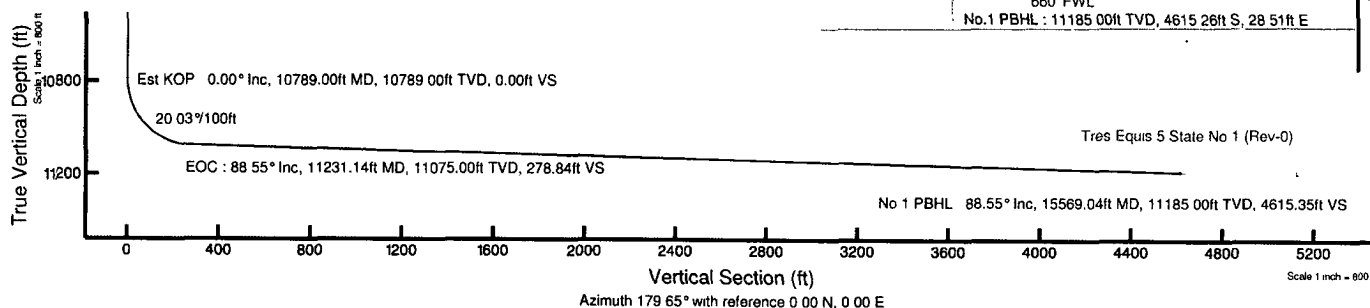


Please reference wellpath is Rev-A.0

True vertical depths are referenced to Rig on No.1 SHL (RT)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.1 SHL (RT)	North Reference: Grid north
Rig on No.1 SHL (RT) to Mean Sea Level: 3657 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No.1 SHL): 3657 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gorty on 4/18/2012



BGGM (1945.0 to 2013.0) Dip: 60.15° Field: 48548.8 nT
Magnetic North is 7.58 degrees East of True North (at 4/18/2012)
Grid North is 0.39 degrees East of True North
To correct azimuth from True to Grid subtract 0.39 degrees
To correct azimuth from Magnetic to Grid add 7.19 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.19 = 97.19





APR 19 2012

RECEIVED

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.1 PWB
Facility	Tres Equis 5 State No.1		

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	Gentbry
Scale	0.999968	Report Generated	4/18/2012 at 9:02:05 AM
Convergence at slot	0.39° East	Database/Source file	WA Midland/No.1_PWB.xml

WELLPATH 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	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W
Facility Reference Pt			767813.20	456573.90	32°15'11.062"N	103°36'02.620"W
Field Reference Pt			763911.80	456554.80	32°15'11.134"N	103°36'48.051"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.1 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.1 SHL (RT) to Mean Sea Level	3657.00ft
Vertical Reference Pt	Rig on No.1 SHL (RT)	Rig on No.1 SHL (RT) to Mud Line at Slot (No.1 SHL)	0.00ft
MD Reference Pt	Rig on No.1 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.65°



Planned Wellpath Report

Rev-A.0
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BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.1 PWB
Facility	Tres Equis 5 State No.1		

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	179.646	0.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	Tie On
100.00†	0.000	179.646	100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
200.00†	0.000	179.646	200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
300.00†	0.000	179.646	300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
400.00†	0.000	179.646	400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
500.00†	0.000	179.646	500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
600.00†	0.000	179.646	600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
700.00†	0.000	179.646	700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
800.00†	0.000	179.646	800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
900.00†	0.000	179.646	900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1000.00†	0.000	179.646	1000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1100.00†	0.000	179.646	1100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1200.00†	0.000	179.646	1200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1300.00†	0.000	179.646	1300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1400.00†	0.000	179.646	1400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1500.00†	0.000	179.646	1500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1600.00†	0.000	179.646	1600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1700.00†	0.000	179.646	1700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1800.00†	0.000	179.646	1800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
1900.00†	0.000	179.646	1900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2000.00†	0.000	179.646	2000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2100.00†	0.000	179.646	2100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2200.00†	0.000	179.646	2200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2300.00†	0.000	179.646	2300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2400.00†	0.000	179.646	2400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2500.00†	0.000	179.646	2500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2600.00†	0.000	179.646	2600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2700.00†	0.000	179.646	2700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2800.00†	0.000	179.646	2800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
2900.00†	0.000	179.646	2900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3000.00†	0.000	179.646	3000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3100.00†	0.000	179.646	3100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3200.00†	0.000	179.646	3200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3300.00†	0.000	179.646	3300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3400.00†	0.000	179.646	3400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3500.00†	0.000	179.646	3500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3600.00†	0.000	179.646	3600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3700.00†	0.000	179.646	3700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3800.00†	0.000	179.646	3800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
3900.00†	0.000	179.646	3900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4000.00†	0.000	179.646	4000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4100.00†	0.000	179.646	4100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4200.00†	0.000	179.646	4200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4300.00†	0.000	179.646	4300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4400.00†	0.000	179.646	4400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.1 PWB
Facility	Tres Equis 5 State No.1		

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	179.646	4500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4600.00†	0.000	179.646	4600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4700.00†	0.000	179.646	4700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4800.00†	0.000	179.646	4800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
4900.00†	0.000	179.646	4900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5000.00†	0.000	179.646	5000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	Delaware Sands
5100.00†	0.000	179.646	5100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5200.00†	0.000	179.646	5200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5300.00†	0.000	179.646	5300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5400.00†	0.000	179.646	5400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5500.00†	0.000	179.646	5500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5600.00†	0.000	179.646	5600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5700.00†	0.000	179.646	5700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5800.00†	0.000	179.646	5800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
5900.00†	0.000	179.646	5900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6000.00†	0.000	179.646	6000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6100.00†	0.000	179.646	6100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6200.00†	0.000	179.646	6200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6300.00†	0.000	179.646	6300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6400.00†	0.000	179.646	6400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6500.00†	0.000	179.646	6500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6600.00†	0.000	179.646	6600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6700.00†	0.000	179.646	6700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6800.00†	0.000	179.646	6800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
6900.00†	0.000	179.646	6900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7000.00†	0.000	179.646	7000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7100.00†	0.000	179.646	7100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7200.00†	0.000	179.646	7200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7300.00†	0.000	179.646	7300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7400.00†	0.000	179.646	7400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7500.00†	0.000	179.646	7500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7600.00†	0.000	179.646	7600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7700.00†	0.000	179.646	7700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7800.00†	0.000	179.646	7800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
7900.00†	0.000	179.646	7900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8000.00†	0.000	179.646	8000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8100.00†	0.000	179.646	8100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8200.00†	0.000	179.646	8200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8300.00†	0.000	179.646	8300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8400.00†	0.000	179.646	8400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8500.00†	0.000	179.646	8500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8600.00†	0.000	179.646	8600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8700.00†	0.000	179.646	8700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8710.00†	0.000	179.646	8710.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	Basal Brushy Canyon
8800.00†	0.000	179.646	8800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	



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BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.1 PWB
Facility	Tres Equis 5 State No.1		

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
8900.00†	0.000	179.646	8900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
8955.00†	0.000	179.646	8955.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	Bone Spring
9000.00†	0.000	179.646	9000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9100.00†	0.000	179.646	9100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9200.00†	0.000	179.646	9200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9300.00†	0.000	179.646	9300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9400.00†	0.000	179.646	9400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9500.00†	0.000	179.646	9500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	Avalon Shale
9600.00†	0.000	179.646	9600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9700.00†	0.000	179.646	9700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9800.00†	0.000	179.646	9800.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
9900.00†	0.000	179.646	9900.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10000.00†	0.000	179.646	10000.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10100.00†	0.000	179.646	10100.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	1st BSS
10200.00†	0.000	179.646	10200.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10300.00†	0.000	179.646	10300.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10400.00†	0.000	179.646	10400.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10500.00†	0.000	179.646	10500.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10600.00†	0.000	179.646	10600.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10650.00†	0.000	179.646	10650.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	2nd BSS
10700.00†	0.000	179.646	10700.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	
10789.00	0.000	179.646	10789.00	0.00	0.00	0.00	767813.20	456573.90	32°15'11.062"N	103°36'02.620"W	0.00	Est KOP
10800.00†	2.203	179.646	10800.00	0.21	-0.21	0.00	767813.20	456573.69	32°15'11.060"N	103°36'02.620"W	20.03	
10900.00†	22.230	179.646	10897.24	21.26	-21.26	0.13	767813.33	456552.64	32°15'10.852"N	103°36'02.620"W	20.03	
11000.00†	42.257	179.646	10981.38	74.35	-74.34	0.46	767813.66	456499.56	32°15'10.327"N	103°36'02.620"W	20.03	
11100.00†	62.284	179.646	11042.27	153.03	-153.03	0.95	767814.15	456420.87	32°15'09.548"N	103°36'02.621"W	20.03	
11200.00†	82.311	179.646	11072.52	247.81	-247.81	1.53	767814.73	456326.10	32°15'08.610"N	103°36'02.621"W	20.03	
11231.14	88.547	179.646	11075.00	278.84	-278.83	1.72	767814.92	456295.08	32°15'08.303"N	103°36'02.622"W	20.03	EOC
11300.00†	88.547	179.646	11076.75	347.68	-347.67	2.15	767815.35	456226.24	32°15'07.622"N	103°36'02.622"W	0.00	
11400.00†	88.547	179.646	11079.28	447.65	-447.64	2.77	767815.97	456126.28	32°15'06.633"N	103°36'02.623"W	0.00	
11500.00†	88.547	179.646	11081.82	547.61	-547.60	3.38	767816.58	456026.32	32°15'05.643"N	103°36'02.624"W	0.00	
11600.00†	88.547	179.646	11084.35	647.58	-647.57	4.00	767817.20	455926.35	32°15'04.654"N	103°36'02.624"W	0.00	
11700.00†	88.547	179.646	11086.89	747.55	-747.54	4.62	767817.82	455826.39	32°15'03.665"N	103°36'02.625"W	0.00	
11800.00†	88.547	179.646	11089.42	847.52	-847.50	5.24	767818.44	455726.43	32°15'02.676"N	103°36'02.626"W	0.00	
11900.00†	88.547	179.646	11091.96	947.49	-947.47	5.85	767819.05	455626.46	32°15'01.687"N	103°36'02.627"W	0.00	
12000.00†	88.547	179.646	11094.50	1047.45	-1047.43	6.47	767819.67	455526.50	32°15'00.698"N	103°36'02.627"W	0.00	
12100.00†	88.547	179.646	11097.03	1147.42	-1147.40	7.09	767820.29	455426.54	32°14'59.708"N	103°36'02.628"W	0.00	
12200.00†	88.547	179.646	11099.57	1247.39	-1247.37	7.71	767820.91	455326.58	32°14'58.719"N	103°36'02.629"W	0.00	
12300.00†	88.547	179.646	11102.10	1347.36	-1347.33	8.32	767821.52	455226.61	32°14'57.730"N	103°36'02.630"W	0.00	
12400.00†	88.547	179.646	11104.64	1447.32	-1447.30	8.94	767822.14	455126.65	32°14'56.741"N	103°36'02.630"W	0.00	
12500.00†	88.547	179.646	11107.17	1547.29	-1547.26	9.56	767822.76	455026.69	32°14'55.752"N	103°36'02.631"W	0.00	
12600.00†	88.547	179.646	11109.71	1647.26	-1647.23	10.18	767823.38	454926.73	32°14'54.762"N	103°36'02.632"W	0.00	
12700.00†	88.547	179.646	11112.25	1747.23	-1747.19	10.79	767823.99	454826.76	32°14'53.773"N	103°36'02.633"W	0.00	
12800.00†	88.547	179.646	11114.78	1847.20	-1847.16	11.41	767824.61	454726.80	32°14'52.784"N	103°36'02.634"W	0.00	
12900.00†	88.547	179.646	11117.32	1947.16	-1947.13	12.03	767825.23	454626.84	32°14'51.795"N	103°36'02.634"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.1 PWB
Facility	Tres Equis 5 State No.1		

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
13000.00†	88.547	179.646	11119.85	2047.13	-2047.09	12.65	767825.85	454526.88	32°14'50.806"N	103°36'02.635"W	0.00	
13100.00†	88.547	179.646	11122.39	2147.10	-2147.06	13.26	767826.46	454426.91	32°14'49.816"N	103°36'02.636"W	0.00	
13200.00†	88.547	179.646	11124.92	2247.07	-2247.02	13.88	767827.08	454326.95	32°14'48.827"N	103°36'02.637"W	0.00	
13300.00†	88.547	179.646	11127.46	2347.04	-2346.99	14.50	767827.70	454226.99	32°14'47.838"N	103°36'02.637"W	0.00	
13400.00†	88.547	179.646	11130.00	2447.00	-2446.96	15.12	767828.32	454127.03	32°14'46.849"N	103°36'02.638"W	0.00	
13500.00†	88.547	179.646	11132.53	2546.97	-2546.92	15.73	767828.93	454027.06	32°14'45.860"N	103°36'02.639"W	0.00	
13600.00†	88.547	179.646	11135.07	2646.94	-2646.89	16.35	767829.55	453927.10	32°14'44.870"N	103°36'02.640"W	0.00	
13700.00†	88.547	179.646	11137.60	2746.91	-2746.85	16.97	767830.17	453827.14	32°14'43.881"N	103°36'02.640"W	0.00	
13800.00†	88.547	179.646	11140.14	2846.87	-2846.82	17.59	767830.79	453727.18	32°14'42.892"N	103°36'02.641"W	0.00	
13900.00†	88.547	179.646	11142.67	2946.84	-2946.79	18.20	767831.40	453627.21	32°14'41.903"N	103°36'02.642"W	0.00	
14000.00†	88.547	179.646	11145.21	3046.81	-3046.75	18.82	767832.02	453527.25	32°14'40.914"N	103°36'02.643"W	0.00	
14100.00†	88.547	179.646	11147.75	3146.78	-3146.72	19.44	767832.64	453427.29	32°14'39.924"N	103°36'02.643"W	0.00	
14200.00†	88.547	179.646	11150.28	3246.75	-3246.68	20.06	767833.26	453327.33	32°14'38.935"N	103°36'02.644"W	0.00	
14300.00†	88.547	179.646	11152.82	3346.71	-3346.65	20.67	767833.87	453227.36	32°14'37.946"N	103°36'02.645"W	0.00	
14400.00†	88.547	179.646	11155.35	3446.68	-3446.62	21.29	767834.49	453127.40	32°14'36.957"N	103°36'02.646"W	0.00	
14500.00†	88.547	179.646	11157.89	3546.65	-3546.58	21.91	767835.11	453027.44	32°14'35.968"N	103°36'02.646"W	0.00	
14600.00†	88.547	179.646	11160.43	3646.62	-3646.55	22.53	767835.73	452927.48	32°14'34.979"N	103°36'02.647"W	0.00	
14700.00†	88.547	179.646	11162.96	3746.59	-3746.51	23.14	767836.34	452827.51	32°14'33.989"N	103°36'02.648"W	0.00	
14800.00†	88.547	179.646	11165.50	3846.55	-3846.48	23.76	767836.96	452727.55	32°14'33.000"N	103°36'02.649"W	0.00	
14900.00†	88.547	179.646	11168.03	3946.52	-3946.45	24.38	767837.58	452627.59	32°14'32.011"N	103°36'02.649"W	0.00	
15000.00†	88.547	179.646	11170.57	4046.49	-4046.41	25.00	767838.19	452527.63	32°14'31.022"N	103°36'02.650"W	0.00	
15100.00†	88.547	179.646	11173.10	4146.46	-4146.38	25.61	767838.81	452427.66	32°14'30.033"N	103°36'02.651"W	0.00	
15200.00†	88.547	179.646	11175.64	4246.42	-4246.34	26.23	767839.43	452327.70	32°14'29.043"N	103°36'02.652"W	0.00	
15300.00†	88.547	179.646	11178.18	4346.39	-4346.31	26.85	767840.05	452227.74	32°14'28.054"N	103°36'02.652"W	0.00	
15400.00†	88.547	179.646	11180.71	4446.36	-4446.28	27.46	767840.66	452127.78	32°14'27.065"N	103°36'02.653"W	0.00	
15500.00†	88.547	179.646	11183.25	4546.33	-4546.24	28.08	767841.28	452027.81	32°14'26.076"N	103°36'02.654"W	0.00	
15569.04	88.547	179.646	11185.00†	4615.35	-4615.26	28.51	767841.71	451958.80	32°14'25.393"N	103°36'02.654"W	0.00	No.1 PBHL



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1 SHL
Area	Lea County, NM	Well	No.1
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.1 PWB
Facility	Tres Equis 5 State No.1		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Tres Equis 5 State No.1 (Rev-0)	15569.04	11185.00	-4615.26	28.50	767841.70	451958.80	32°14'25.393"N	103°36'02.654"W	point

SURVEY PROGRAM - Ref Wellbore: No.1 PWB Ref Wellpath: Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15569.04	NaviTrak (Standard)		No.1 PWB