

3D-025-40661



Cimarex Energy Co.

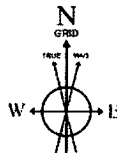
Location: Lea County, NM
Field: (Tres Equis) Sec 6, T24S, R33E
Facility: Tres Equis State No. 11

Slot: No. 11 SHL
Well: No. 11
Wellbore: No. 11 PWB

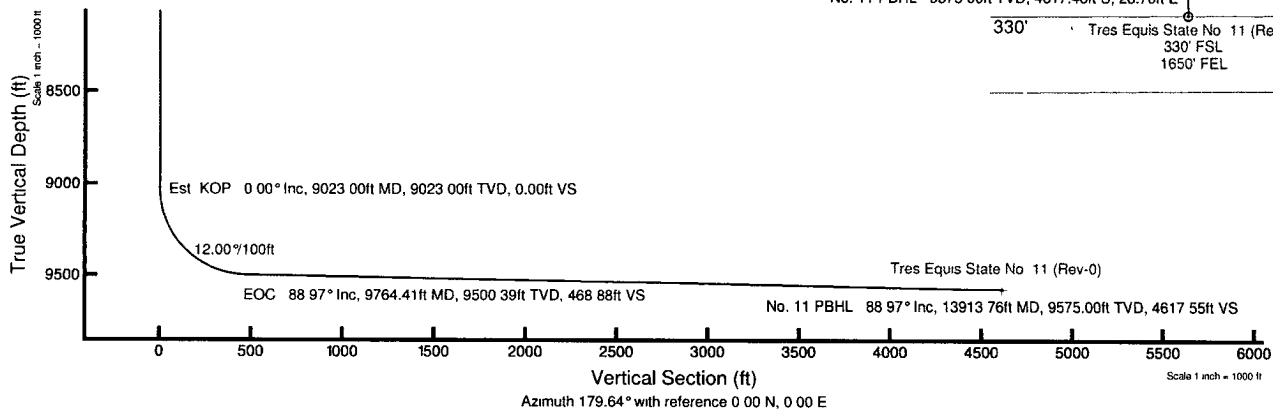
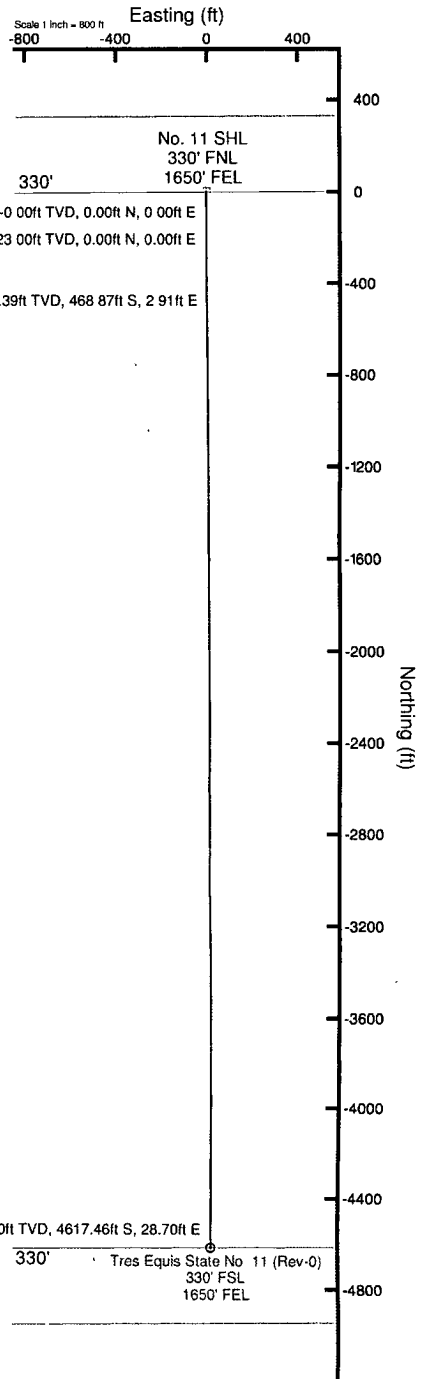


Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	0.00	0.000	179.644	0.00	0.00	0.00	0.00
Est KOP	9023.00	0.000	179.644	9023.00	0.00	0.00	0.00
EOC	9764.41	88.970	179.644	9500.39	-468.87	2.91	468.88
No. 11 PBHL	13913.76	88.970	179.644	9575.00	-4617.46	28.70	4617.55

Plot reference wellpath is Rev-A 0	
True vertical depths are referenced to Rig on No. 11 SHL (RT)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 11 SHL (RT)	North Reference: Grid north
Rig on No. 11 SHL (RT) to Mean Sea Level: 3655 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No. 11 SHL): -3655 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harrk on 4/10/2012



BGGM (1945.0 to 2013.0) Dip: 60.15° Field: 48550.6 nT
Magnetic North is 7.58 degrees East of True North (at 4/10/2012)
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 7.20 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.20 = 97.20



JUL 03 2012



Planned Wellpath Report

Rev-A.0
Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 11 SHL
Area	Lea County, NM	Well	No. 11
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 11 PWB
Facility	Tres Equis State No. 11		

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	Harrkol
Scale	0.999967	Report Generated	4/10/2012 at 2:57:48 PM
Convergence at slot	0.39° East	Database/Source file	WA Midland/No._11_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	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W
Facility Reference Pt			765503.50	456562.50	32°15'11.105"N	103°36'29.516"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. 11 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 11 SHL (RT) to Mean Sea Level	3655.00ft
Vertical Reference Pt	Rig on No. 11 SHL (RT)	Rig on No. 11 SHL (RT) to Mud Line at Slot (No. 11 SHL)	0.00ft
MD Reference Pt	Rig on No. 11 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.64°



Planned Wellpath Report

Rev-A.0
Page 2 of 5



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HUGHES**

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11 SHL
Area	Lea County, NM	Well	No. 11
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 11 PWB
Facility	Tres Equis State No. 11		

WELLPATH DATA (146 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	179.644	0.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Tie On
100.00†	0.000	179.644	100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
200.00†	0.000	179.644	200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
300.00†	0.000	179.644	300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
400.00†	0.000	179.644	400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
500.00†	0.000	179.644	500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
600.00†	0.000	179.644	600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
700.00†	0.000	179.644	700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
800.00†	0.000	179.644	800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
900.00†	0.000	179.644	900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1000.00†	0.000	179.644	1000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1100.00†	0.000	179.644	1100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1200.00†	0.000	179.644	1200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Rustler
1300.00†	0.000	179.644	1300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1400.00†	0.000	179.644	1400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1420.00†	0.000	179.644	1420.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Salt
1500.00†	0.000	179.644	1500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1600.00†	0.000	179.644	1600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1700.00†	0.000	179.644	1700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1800.00†	0.000	179.644	1800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
1900.00†	0.000	179.644	1900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2000.00†	0.000	179.644	2000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2100.00†	0.000	179.644	2100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2200.00†	0.000	179.644	2200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2300.00†	0.000	179.644	2300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2400.00†	0.000	179.644	2400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2500.00†	0.000	179.644	2500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2600.00†	0.000	179.644	2600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2700.00†	0.000	179.644	2700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2800.00†	0.000	179.644	2800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
2900.00†	0.000	179.644	2900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3000.00†	0.000	179.644	3000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3100.00†	0.000	179.644	3100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3200.00†	0.000	179.644	3200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3300.00†	0.000	179.644	3300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Castille
3400.00†	0.000	179.644	3400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3500.00†	0.000	179.644	3500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3600.00†	0.000	179.644	3600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3700.00†	0.000	179.644	3700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3800.00†	0.000	179.644	3800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
3900.00†	0.000	179.644	3900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4000.00†	0.000	179.644	4000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4100.00†	0.000	179.644	4100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4200.00†	0.000	179.644	4200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4300.00†	0.000	179.644	4300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 3 of 5



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11 SHL
Area	Lea County, NM	Well	No. 11
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 11 PWB
Facility	Tres Equis State No. 11		

WELLPATH DATA (146 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
4400.00†	0.000	179.644	4400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4500.00†	0.000	179.644	4500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4600.00†	0.000	179.644	4600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4700.00†	0.000	179.644	4700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4800.00†	0.000	179.644	4800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
4900.00†	0.000	179.644	4900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5000.00†	0.000	179.644	5000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Delaware
5100.00†	0.000	179.644	5100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5200.00†	0.000	179.644	5200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5300.00†	0.000	179.644	5300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5400.00†	0.000	179.644	5400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5500.00†	0.000	179.644	5500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5600.00†	0.000	179.644	5600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5700.00†	0.000	179.644	5700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5800.00†	0.000	179.644	5800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
5900.00†	0.000	179.644	5900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6000.00†	0.000	179.644	6000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6100.00†	0.000	179.644	6100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6200.00†	0.000	179.644	6200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6300.00†	0.000	179.644	6300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6400.00†	0.000	179.644	6400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6500.00†	0.000	179.644	6500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6600.00†	0.000	179.644	6600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6700.00†	0.000	179.644	6700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6800.00†	0.000	179.644	6800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
6900.00†	0.000	179.644	6900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7000.00†	0.000	179.644	7000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7100.00†	0.000	179.644	7100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7200.00†	0.000	179.644	7200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7300.00†	0.000	179.644	7300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7400.00†	0.000	179.644	7400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7500.00†	0.000	179.644	7500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7600.00†	0.000	179.644	7600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7700.00†	0.000	179.644	7700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7800.00†	0.000	179.644	7800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
7900.00†	0.000	179.644	7900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8000.00†	0.000	179.644	8000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8100.00†	0.000	179.644	8100.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8200.00†	0.000	179.644	8200.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8300.00†	0.000	179.644	8300.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8400.00†	0.000	179.644	8400.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8500.00†	0.000	179.644	8500.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8575.00†	0.000	179.644	8575.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Basal Brushy Canyon
8600.00†	0.000	179.644	8600.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8700.00†	0.000	179.644	8700.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 4 of 5



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11 SHL
Area	Lea County, NM	Well	No. 11
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 11 PWB
Facility	Tres Equis State No. 11		

WELLPATH DATA (146 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
8800.00†	0.000	179.644	8800.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
8900.00†	0.000	179.644	8900.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Bone Spring
9000.00†	0.000	179.644	9000.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	
9023.00	0.000	179.644	9023.00	0.00	0.00	0.00	765503.50	456562.50	32°15'11.105"N	103°36'29.516"W	0.00	Est KOP
9100.00†	9.240	179.644	9099.67	6.20	-6.20	0.04	765503.54	456556.30	32°15'11.043"N	103°36'29.516"W	12.00	
9200.00†	21.240	179.644	9195.97	32.43	-32.43	0.20	765503.70	456530.07	32°15'10.784"N	103°36'29.516"W	12.00	
9300.00†	33.240	179.644	9284.72	78.12	-78.12	0.49	765503.99	456484.38	32°15'10.332"N	103°36'29.516"W	12.00	
9318.51†	35.461	179.644	9300.00	88.56	-88.56	0.55	765504.05	456473.94	32°15'10.228"N	103°36'29.516"W	12.00	Upper Bone Spring Shale
9400.00†	45.240	179.644	9362.03	141.26	-141.26	0.88	765504.38	456421.24	32°15'09.707"N	103°36'29.517"W	12.00	
9500.00†	57.240	179.644	9424.52	219.10	-219.09	1.36	765504.86	456343.41	32°15'08.937"N	103°36'29.517"W	12.00	
9600.00†	69.240	179.644	9469.46	308.23	-308.22	1.92	765505.42	456254.29	32°15'08.055"N	103°36'29.518"W	12.00	
9700.00†	81.240	179.644	9494.90	404.75	-404.74	2.52	765506.02	456157.77	32°15'07.100"N	103°36'29.518"W	12.00	
9764.41	88.970	179.644	9500.39	468.88	-468.87	2.91	765506.41	456093.65	32°15'06.465"N	103°36'29.519"W	12.00	EOC
9800.00†	88.970	179.644	9501.03	504.46	-504.45	3.14	765506.64	456058.07	32°15'06.113"N	103°36'29.519"W	0.00	
9900.00†	88.970	179.644	9502.83	604.44	-604.43	3.76	765507.26	455958.09	32°15'05.124"N	103°36'29.520"W	0.00	
10000.00†	88.970	179.644	9504.62	704.43	-704.41	4.38	765507.88	455858.11	32°15'04.134"N	103°36'29.520"W	0.00	
10100.00†	88.970	179.644	9506.42	804.41	-804.40	5.00	765508.50	455758.13	32°15'03.145"N	103°36'29.521"W	0.00	
10200.00†	88.970	179.644	9508.22	904.39	-904.38	5.62	765509.12	455658.15	32°15'02.155"N	103°36'29.522"W	0.00	
10300.00†	88.970	179.644	9510.02	1004.38	-1004.36	6.24	765509.74	455558.18	32°15'01.166"N	103°36'29.522"W	0.00	
10400.00†	88.970	179.644	9511.82	1104.36	-1104.34	6.86	765510.36	455458.20	32°15'00.177"N	103°36'29.523"W	0.00	
10500.00†	88.970	179.644	9513.61	1204.35	-1204.32	7.49	765510.99	455358.22	32°14'59.187"N	103°36'29.523"W	0.00	
10600.00†	88.970	179.644	9515.41	1304.33	-1304.30	8.11	765511.61	455258.24	32°14'58.198"N	103°36'29.524"W	0.00	
10700.00†	88.970	179.644	9517.21	1404.31	-1404.29	8.73	765512.23	455158.26	32°14'57.209"N	103°36'29.525"W	0.00	
10800.00†	88.970	179.644	9519.01	1504.30	-1504.27	9.35	765512.85	455058.28	32°14'56.219"N	103°36'29.525"W	0.00	
10900.00†	88.970	179.644	9520.81	1604.28	-1604.25	9.97	765513.47	454958.31	32°14'55.230"N	103°36'29.526"W	0.00	
11000.00†	88.970	179.644	9522.61	1704.27	-1704.23	10.59	765514.09	454858.33	32°14'54.241"N	103°36'29.527"W	0.00	
11100.00†	88.970	179.644	9524.40	1804.25	-1804.21	11.21	765514.71	454758.35	32°14'53.251"N	103°36'29.527"W	0.00	
11200.00†	88.970	179.644	9526.20	1904.23	-1904.20	11.84	765515.34	454658.37	32°14'52.262"N	103°36'29.528"W	0.00	
11300.00†	88.970	179.644	9528.00	2004.22	-2004.18	12.46	765515.96	454558.39	32°14'51.273"N	103°36'29.528"W	0.00	
11400.00†	88.970	179.644	9529.80	2104.20	-2104.16	13.08	765516.58	454458.41	32°14'50.283"N	103°36'29.529"W	0.00	
11500.00†	88.970	179.644	9531.60	2204.18	-2204.14	13.70	765517.20	454358.44	32°14'49.294"N	103°36'29.530"W	0.00	
11600.00†	88.970	179.644	9533.39	2304.17	-2304.12	14.32	765517.82	454258.46	32°14'48.305"N	103°36'29.530"W	0.00	
11700.00†	88.970	179.644	9535.19	2404.15	-2404.11	14.94	765518.44	454158.48	32°14'47.315"N	103°36'29.531"W	0.00	
11800.00†	88.970	179.644	9536.99	2504.14	-2504.09	15.56	765519.06	454058.50	32°14'46.326"N	103°36'29.532"W	0.00	
11900.00†	88.970	179.644	9538.79	2604.12	-2604.07	16.19	765519.69	453958.52	32°14'45.337"N	103°36'29.532"W	0.00	
12000.00†	88.970	179.644	9540.59	2704.10	-2704.05	16.81	765520.31	453858.54	32°14'44.347"N	103°36'29.533"W	0.00	
12100.00†	88.970	179.644	9542.39	2804.09	-2804.03	17.43	765520.93	453758.57	32°14'43.358"N	103°36'29.533"W	0.00	
12200.00†	88.970	179.644	9544.18	2904.07	-2904.02	18.05	765521.55	453658.59	32°14'42.368"N	103°36'29.534"W	0.00	
12300.00†	88.970	179.644	9545.98	3004.06	-3004.00	18.67	765522.17	453558.61	32°14'41.379"N	103°36'29.535"W	0.00	
12400.00†	88.970	179.644	9547.78	3104.04	-3103.98	19.29	765522.79	453458.63	32°14'40.390"N	103°36'29.535"W	0.00	
12500.00†	88.970	179.644	9549.58	3204.02	-3203.96	19.92	765523.41	453358.65	32°14'39.400"N	103°36'29.536"W	0.00	
12600.00†	88.970	179.644	9551.38	3304.01	-3303.94	20.54	765524.04	453258.67	32°14'38.411"N	103°36'29.537"W	0.00	
12700.00†	88.970	179.644	9553.17	3403.99	-3403.92	21.16	765524.66	453158.70	32°14'37.422"N	103°36'29.537"W	0.00	
12800.00†	88.970	179.644	9554.97	3503.97	-3503.91	21.78	765525.28	453058.72	32°14'36.432"N	103°36'29.538"W	0.00	
12900.00†	88.970	179.644	9556.77	3603.96	-3603.89	22.40	765525.90	452958.74	32°14'35.443"N	103°36'29.538"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11 SHL
Area	Lea County, NM	Well	No. 11
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 11 PWB
Facility	Tres Equis State No. 11		

WELLPATH DATA (146 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†	88.970	179.644	9558.57	3703.94	-3703.87	23.02	765526.52	452858.76	32°14'34.454"N	103°36'29.539"W	0.00	
13100.00†	88.970	179.644	9560.37	3803.93	-3803.85	23.64	765527.14	452758.78	32°14'33.464"N	103°36'29.540"W	0.00	
13200.00†	88.970	179.644	9562.17	3903.91	-3903.83	24.27	765527.76	452658.80	32°14'32.475"N	103°36'29.540"W	0.00	
13300.00†	88.970	179.644	9563.96	4003.89	-4003.82	24.89	765528.39	452558.83	32°14'31.486"N	103°36'29.541"W	0.00	
13400.00†	88.970	179.644	9565.76	4103.88	-4103.80	25.51	765529.01	452458.85	32°14'30.496"N	103°36'29.542"W	0.00	
13500.00†	88.970	179.644	9567.56	4203.86	-4203.78	26.13	765529.63	452358.87	32°14'29.507"N	103°36'29.542"W	0.00	
13600.00†	88.970	179.644	9569.36	4303.85	-4303.76	26.75	765530.25	452258.89	32°14'28.518"N	103°36'29.543"W	0.00	
13700.00†	88.970	179.644	9571.16	4403.83	-4403.74	27.37	765530.87	452158.91	32°14'27.528"N	103°36'29.543"W	0.00	
13800.00†	88.970	179.644	9572.95	4503.81	-4503.73	27.99	765531.49	452058.93	32°14'26.539"N	103°36'29.544"W	0.00	
13900.00†	88.970	179.644	9574.75	4603.80	-4603.71	28.62	765532.11	451958.96	32°14'25.549"N	103°36'29.545"W	0.00	
13913.76	88.970	179.644	9575.00†	4617.55	-4617.46	28.70	765532.20	451945.20	32°14'25.413"N	103°36'29.545"W	0.00	No. 11 PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Tres Equis State No. 11 (Rev-0)	13913.76	9575.00	-4617.46	28.70	765532.20	451945.20	32°14'25.413"N	103°36'29.545"W	point

SURVEY PROGRAM - Ref Wellbore: No. 11 PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13913.76	NaviTrak (Standard)		No. 11 PWB