

30-025- 40662



Cimarex Energy Co.

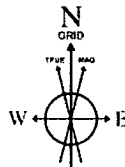
Location: Lea County, NM
Field: (Tres Equis) Sec 6, T24S, R33E
Facility: Tres Equis State No. 12

Slot: No. 12 SHL
Well: No. 12
Wellbore: No. 12 PWB

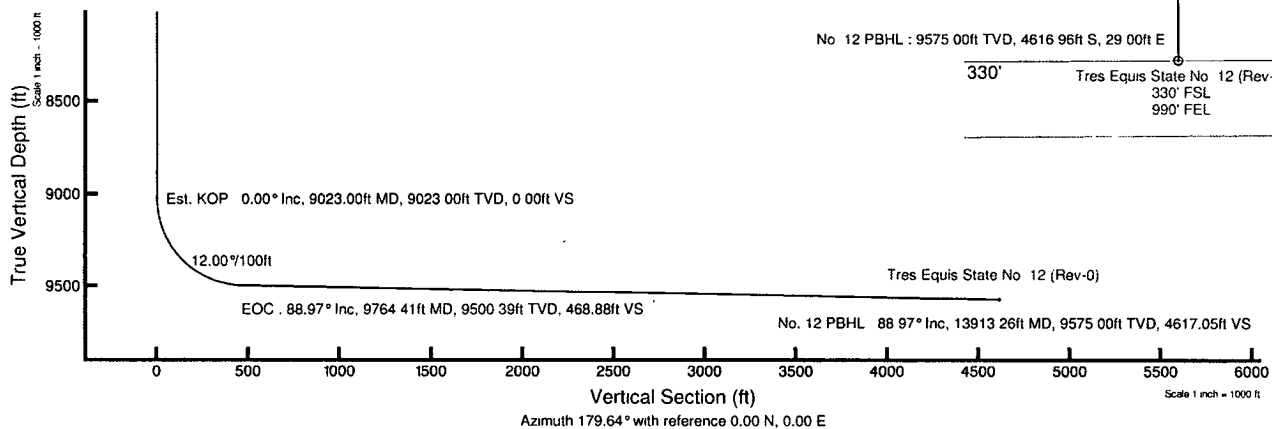
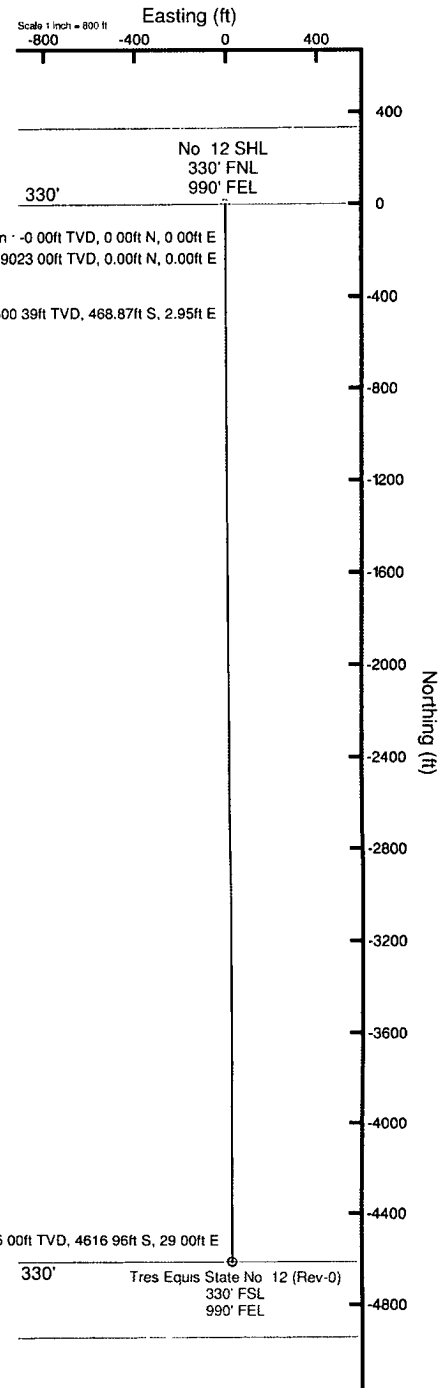


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.640	0.00	0.00	0.00	0.00	0.00
Est KOP	9023.00	0.000	179.640	9023.00	0.00	0.00	0.00	0.00
EOC	9764.41	88.970	179.640	9500.39	-468.87	2.95	12.00	468.88
No. 12 PBHL	13913.26	88.970	179.640	9575.00	-4616.96	29.00	0.00	4617.05

Plot reference wellpath is Rev-A 0	
True vertical depths are referenced to Rig on No. 12 SHL (RT)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 12 SHL (RT)	North Reference: Grid north
Rig on No. 12 SHL (RT) to Mean Sea Level: 3659 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No. 12 SHL): -3659 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harkol on 4/10/2012



BGGM (1945.0 to 2013.0) Dip: 60.15° Field: 48550.8 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 7.19 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.19 = 97.19



JUL 03 2012



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 12 SHL
Area	Lea County, NM	Well	No. 12
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 12 PWB
Facility	Tres Equis State No. 12		

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 11:05:11 AM
Convergence at slot	0.39° East	Database/Source file	WA Midland/No. 12_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	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W
Facility Reference Pt			766163.00	456566.00	32°15'11.095"N	103°36'21.836"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. 12 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 12 SHL (RT) to Mean Sea Level	3659.00ft
Vertical Reference Pt	Rig on No. 12 SHL (RT)	Rig on No. 12 SHL (RT) to Mud Line at Slot (No. 12 SHL)	0.00ft
MD Reference Pt	Rig on No. 12 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.64°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 12 SHL
Area	Lea County, NM	Well	No. 12
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 12 PWB
Facility	Tres Equis State No. 12		

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	179.640	0.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Tie On
100.00†	0.000	179.640	100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
200.00†	0.000	179.640	200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
300.00†	0.000	179.640	300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
400.00†	0.000	179.640	400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
500.00†	0.000	179.640	500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
600.00†	0.000	179.640	600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
700.00†	0.000	179.640	700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
800.00†	0.000	179.640	800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
900.00†	0.000	179.640	900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1000.00†	0.000	179.640	1000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1100.00†	0.000	179.640	1100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1200.00†	0.000	179.640	1200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Rustler
1300.00†	0.000	179.640	1300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1400.00†	0.000	179.640	1400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1420.00†	0.000	179.640	1420.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Salt
1500.00†	0.000	179.640	1500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1600.00†	0.000	179.640	1600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1700.00†	0.000	179.640	1700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1800.00†	0.000	179.640	1800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
1900.00†	0.000	179.640	1900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2000.00†	0.000	179.640	2000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2100.00†	0.000	179.640	2100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2200.00†	0.000	179.640	2200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2300.00†	0.000	179.640	2300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2400.00†	0.000	179.640	2400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2500.00†	0.000	179.640	2500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2600.00†	0.000	179.640	2600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2700.00†	0.000	179.640	2700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2800.00†	0.000	179.640	2800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
2900.00†	0.000	179.640	2900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3000.00†	0.000	179.640	3000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3100.00†	0.000	179.640	3100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3200.00†	0.000	179.640	3200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3300.00†	0.000	179.640	3300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Castille
3400.00†	0.000	179.640	3400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3500.00†	0.000	179.640	3500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3600.00†	0.000	179.640	3600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3700.00†	0.000	179.640	3700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3800.00†	0.000	179.640	3800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
3900.00†	0.000	179.640	3900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4000.00†	0.000	179.640	4000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4100.00†	0.000	179.640	4100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4200.00†	0.000	179.640	4200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4300.00†	0.000	179.640	4300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 12 SHL
Area	Lea County, NM	Well	No. 12
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 12 PWB
Facility	Tres Equis State No. 12		

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	179.640	4400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4500.00†	0.000	179.640	4500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4600.00†	0.000	179.640	4600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4700.00†	0.000	179.640	4700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4800.00†	0.000	179.640	4800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
4900.00†	0.000	179.640	4900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5000.00†	0.000	179.640	5000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Delaware
5100.00†	0.000	179.640	5100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5200.00†	0.000	179.640	5200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5300.00†	0.000	179.640	5300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5400.00†	0.000	179.640	5400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5500.00†	0.000	179.640	5500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5600.00†	0.000	179.640	5600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5700.00†	0.000	179.640	5700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5800.00†	0.000	179.640	5800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
5900.00†	0.000	179.640	5900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6000.00†	0.000	179.640	6000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6100.00†	0.000	179.640	6100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6200.00†	0.000	179.640	6200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6300.00†	0.000	179.640	6300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6400.00†	0.000	179.640	6400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6500.00†	0.000	179.640	6500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6600.00†	0.000	179.640	6600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6700.00†	0.000	179.640	6700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6800.00†	0.000	179.640	6800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
6900.00†	0.000	179.640	6900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7000.00†	0.000	179.640	7000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7100.00†	0.000	179.640	7100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7200.00†	0.000	179.640	7200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7300.00†	0.000	179.640	7300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7400.00†	0.000	179.640	7400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7500.00†	0.000	179.640	7500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7600.00†	0.000	179.640	7600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7700.00†	0.000	179.640	7700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7800.00†	0.000	179.640	7800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
7900.00†	0.000	179.640	7900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8000.00†	0.000	179.640	8000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8100.00†	0.000	179.640	8100.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8200.00†	0.000	179.640	8200.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8300.00†	0.000	179.640	8300.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8400.00†	0.000	179.640	8400.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8500.00†	0.000	179.640	8500.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8575.00†	0.000	179.640	8575.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Basal Brushy Canyon
8600.00†	0.000	179.640	8600.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8700.00†	0.000	179.640	8700.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	



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**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 12 SHL
Area	Lea County, NM	Well	No. 12
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 12 PWB
Facility	Tres Equis State No. 12		

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	179.640	8800.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
8900.00†	0.000	179.640	8900.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Bone Spring
9000.00†	0.000	179.640	9000.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	
9023.00	0.000	179.640	9023.00	0.00	0.00	0.00	766163.00	456566.00	32°15'11.095"N	103°36'21.836"W	0.00	Est. KOP
9100.00†	9.240	179.640	9099.67	6.20	-6.20	-0.04	766163.04	456559.80	32°15'11.034"N	103°36'21.836"W	12.00	
9200.00†	21.240	179.640	9195.97	32.43	-32.43	0.20	766163.20	456533.57	32°15'10.774"N	103°36'21.836"W	12.00	
9300.00†	33.240	179.640	9284.72	78.12	-78.12	0.49	766163.49	456487.88	32°15'10.322"N	103°36'21.836"W	12.00	
9318.51†	35.461	179.640	9300.00	88.56	-88.56	0.56	766163.56	456477.44	32°15'10.219"N	103°36'21.837"W	12.00	Upper Bone Spring Shale
9400.00†	45.240	179.640	9362.03	141.26	-141.26	0.89	766163.89	456424.74	32°15'09.697"N	103°36'21.837"W	12.00	
9500.00†	57.240	179.640	9424.52	219.10	-219.09	1.38	766164.38	456346.91	32°15'08.927"N	103°36'21.837"W	12.00	
9600.00†	69.240	179.640	9469.46	308.23	-308.22	1.94	766164.94	456257.79	32°15'08.045"N	103°36'21.838"W	12.00	
9700.00†	81.240	179.640	9494.90	404.75	-404.74	2.54	766165.54	456161.27	32°15'07.090"N	103°36'21.838"W	12.00	
9764.41	88.970	179.640	9500.39	468.88	-468.87	2.95	766165.95	456097.15	32°15'06.455"N	103°36'21.839"W	12.00	EOC
9800.00†	88.970	179.640	9501.03	504.46	-504.45	3.17	766166.17	456061.57	32°15'06.103"N	103°36'21.839"W	0.00	
9900.00†	88.970	179.640	9502.83	604.44	-604.43	3.80	766166.80	455961.59	32°15'05.114"N	103°36'21.839"W	0.00	
10000.00†	88.970	179.640	9504.62	704.43	-704.41	4.42	766167.42	455861.61	32°15'04.125"N	103°36'21.840"W	0.00	
10100.00†	88.970	179.640	9506.42	804.41	-804.40	5.05	766168.05	455761.63	32°15'03.135"N	103°36'21.841"W	0.00	
10200.00†	88.970	179.640	9508.22	904.39	-904.38	5.68	766168.68	455661.65	32°15'02.146"N	103°36'21.841"W	0.00	
10300.00†	88.970	179.640	9510.02	1004.38	-1004.36	6.31	766169.31	455561.68	32°15'01.157"N	103°36'21.842"W	0.00	
10400.00†	88.970	179.640	9511.82	1104.36	-1104.34	6.94	766169.94	455461.70	32°15'00.167"N	103°36'21.842"W	0.00	
10500.00†	88.970	179.640	9513.62	1204.35	-1204.32	7.56	766170.56	455361.72	32°14'59.178"N	103°36'21.843"W	0.00	
10600.00†	88.970	179.640	9515.41	1304.33	-1304.30	8.19	766171.19	455261.74	32°14'58.189"N	103°36'21.843"W	0.00	
10700.00†	88.970	179.640	9517.21	1404.31	-1404.29	8.82	766171.82	455161.76	32°14'57.199"N	103°36'21.844"W	0.00	
10800.00†	88.970	179.640	9519.01	1504.30	-1504.27	9.45	766172.45	455061.78	32°14'56.210"N	103°36'21.845"W	0.00	
10900.00†	88.970	179.640	9520.81	1604.28	-1604.25	10.08	766173.08	454961.81	32°14'55.221"N	103°36'21.845"W	0.00	
11000.00†	88.970	179.640	9522.61	1704.27	-1704.23	10.70	766173.70	454861.83	32°14'54.231"N	103°36'21.846"W	0.00	
11100.00†	88.970	179.640	9524.41	1804.25	-1804.21	11.33	766174.33	454761.85	32°14'53.242"N	103°36'21.846"W	0.00	
11200.00†	88.970	179.640	9526.21	1904.23	-1904.20	11.96	766174.96	454661.87	32°14'52.252"N	103°36'21.847"W	0.00	
11300.00†	88.970	179.640	9528.00	2004.22	-2004.18	12.59	766175.59	454561.89	32°14'51.263"N	103°36'21.847"W	0.00	
11400.00†	88.970	179.640	9529.80	2104.20	-2104.16	13.22	766176.22	454461.91	32°14'50.274"N	103°36'21.848"W	0.00	
11500.00†	88.970	179.640	9531.60	2204.18	-2204.14	13.85	766176.84	454361.94	32°14'49.284"N	103°36'21.849"W	0.00	
11600.00†	88.970	179.640	9533.40	2304.17	-2304.12	14.47	766177.47	454261.96	32°14'48.295"N	103°36'21.849"W	0.00	
11700.00†	88.970	179.640	9535.20	2404.15	-2404.10	15.10	766178.10	454161.98	32°14'47.306"N	103°36'21.850"W	0.00	
11800.00†	88.970	179.640	9537.00	2504.14	-2504.09	15.73	766178.73	454062.00	32°14'46.316"N	103°36'21.850"W	0.00	
11900.00†	88.970	179.640	9538.79	2604.12	-2604.07	16.36	766179.36	453962.02	32°14'45.327"N	103°36'21.851"W	0.00	
12000.00†	88.970	179.640	9540.59	2704.10	-2704.05	16.99	766179.98	453862.04	32°14'44.338"N	103°36'21.851"W	0.00	
12100.00†	88.970	179.640	9542.39	2804.09	-2804.03	17.61	766180.61	453762.07	32°14'43.348"N	103°36'21.852"W	0.00	
12200.00†	88.970	179.640	9544.19	2904.07	-2904.01	18.24	766181.24	453662.09	32°14'42.359"N	103°36'21.853"W	0.00	
12300.00†	88.970	179.640	9545.99	3004.06	-3004.00	18.87	766181.87	453562.11	32°14'41.370"N	103°36'21.853"W	0.00	
12400.00†	88.970	179.640	9547.79	3104.04	-3103.98	19.50	766182.50	453462.13	32°14'40.380"N	103°36'21.854"W	0.00	
12500.00†	88.970	179.640	9549.58	3204.02	-3203.96	20.13	766183.12	453362.15	32°14'39.391"N	103°36'21.854"W	0.00	
12600.00†	88.970	179.640	9551.38	3304.01	-3303.94	20.75	766183.75	453262.17	32°14'38.402"N	103°36'21.855"W	0.00	
12700.00†	88.970	179.640	9553.18	3403.99	-3403.92	21.38	766184.38	453162.20	32°14'37.412"N	103°36'21.856"W	0.00	
12800.00†	88.970	179.640	9554.98	3503.97	-3503.91	22.01	766185.01	453062.22	32°14'36.423"N	103°36'21.856"W	0.00	
12900.00†	88.970	179.640	9556.78	3603.96	-3603.89	22.64	766185.64	452962.24	32°14'35.433"N	103°36'21.857"W	0.00	



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 12 SHL
Area	Lea County, NM	Well	No. 12
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No. 12 PWB
Facility	Tres Equis State No. 12		

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	179.640	9558.58	3703.94	-3703.87	23.27	766186.26	452862.26	32°14'34.444"N	103°36'21.857"W	0.00	
13100.00†	88.970	179.640	9560.37	3803.93	-3803.85	23.89	766186.89	452762.28	32°14'33.455"N	103°36'21.858"W	0.00	
13200.00†	88.970	179.640	9562.17	3903.91	-3903.83	24.52	766187.52	452662.30	32°14'32.465"N	103°36'21.858"W	0.00	
13300.00†	88.970	179.640	9563.97	4003.89	-4003.81	25.15	766188.15	452562.33	32°14'31.476"N	103°36'21.859"W	0.00	
13400.00†	88.970	179.640	9565.77	4103.88	-4103.80	25.78	766188.78	452462.35	32°14'30.487"N	103°36'21.860"W	0.00	
13500.00†	88.970	179.640	9567.57	4203.86	-4203.78	26.41	766189.40	452362.37	32°14'29.497"N	103°36'21.860"W	0.00	
13600.00†	88.970	179.640	9569.37	4303.84	-4303.76	27.03	766190.03	452262.39	32°14'28.508"N	103°36'21.861"W	0.00	
13700.00†	88.970	179.640	9571.16	4403.83	-4403.74	27.66	766190.66	452162.41	32°14'27.519"N	103°36'21.861"W	0.00	
13800.00†	88.970	179.640	9572.96	4503.81	-4503.72	28.29	766191.29	452062.43	32°14'26.529"N	103°36'21.862"W	0.00	
13900.00†	88.970	179.640	9574.76	4603.80	-4603.71	28.92	766191.92	451962.46	32°14'25.540"N	103°36'21.862"W	0.00	
13913.26	88.970	179.640	9575.00†	4617.05	-4616.96	29.00	766192.00	451949.20	32°14'25.409"N	103°36'21.862"W	0.00	No. 12 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. 12 (Rev-0)	13913.26	9575.00	-4616.96	29.00	766192.00	451949.20	32°14'25.409"N	103°36'21.862"W	point

SURVEY PROGRAM - Ref Wellbore: No. 12 PWB Ref Wellpath: Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13913.26	NaviTrak (Standard)		No. 12 PWB