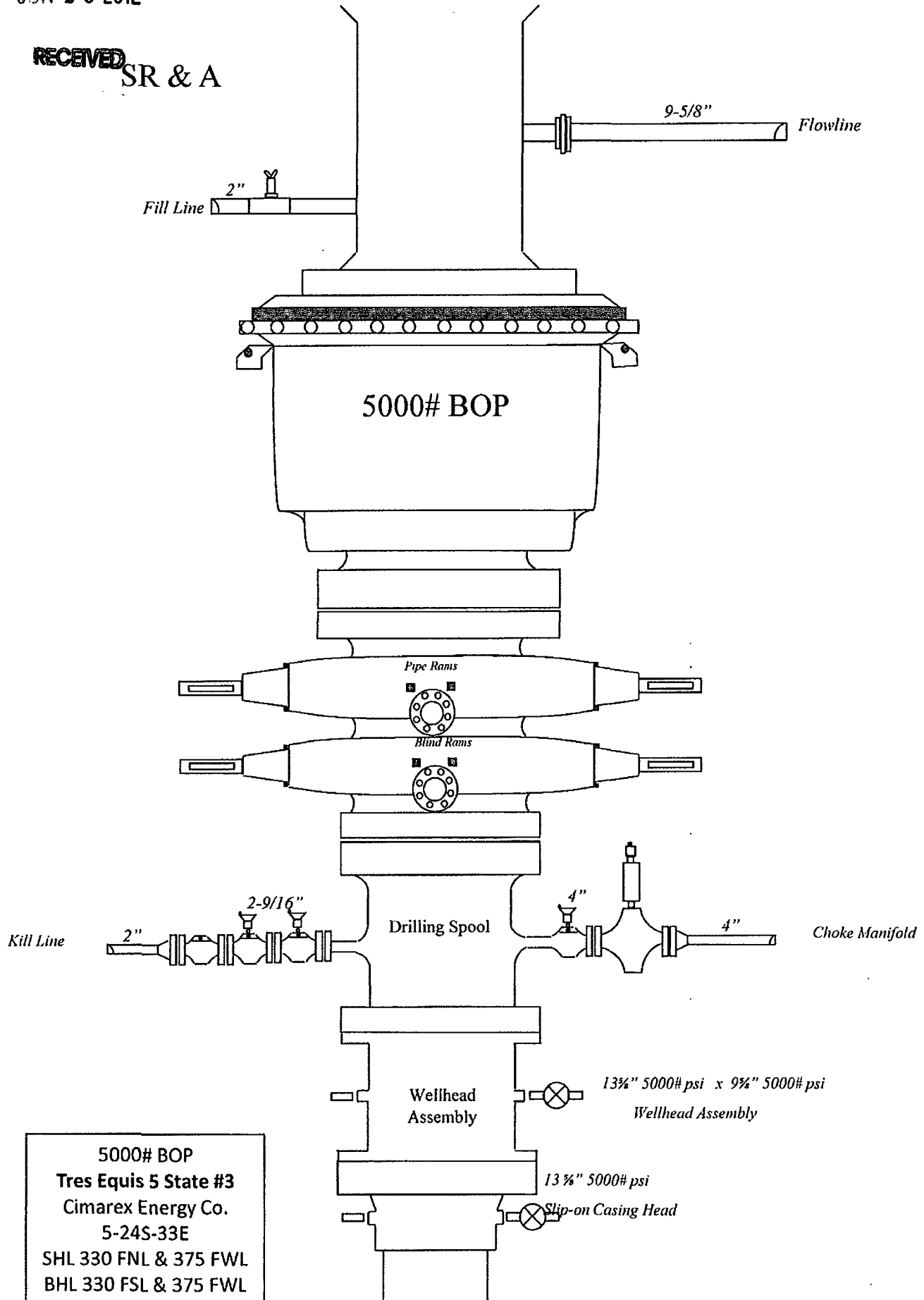


JUN 26 2012

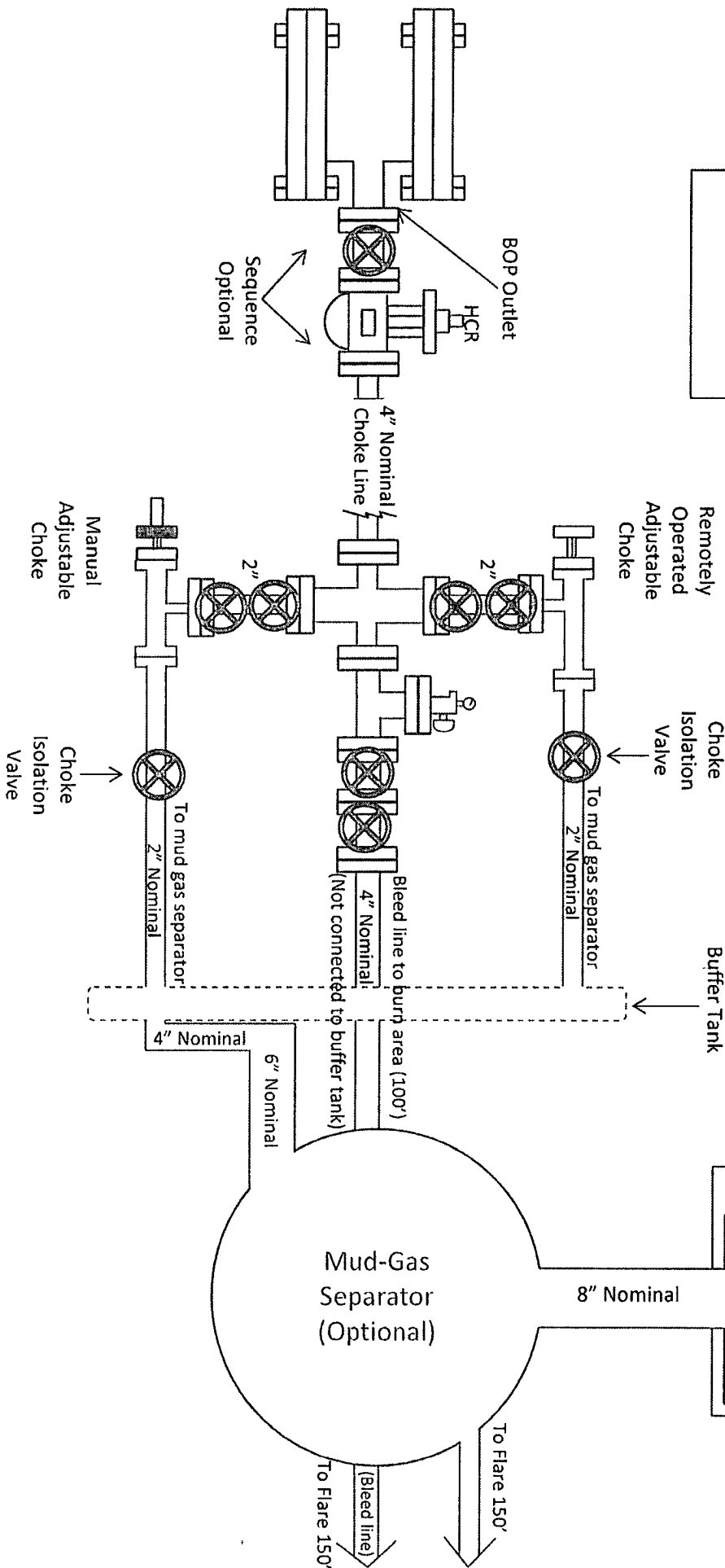
RECEIVED
SR & A

5000# BOP
 Tres Equis 5 State #3
 Cimarex Energy Co.
 5-24S-33E
 SHL 330 FNL & 375 FWL
 BHL 330 FSL & 375 FWL
 Lea County, NM

JUN 27 2012

Drilling Operations Choke Manifold 5M Service

Choke Manifold Diagram
Tres Equis 5 State #3
Cimarex Energy Co.
5-24S-33E
SHL 330 FNL & 375 FWL
BHL 330 FSL & 375 FWL
Lea County, NM





HOBBS OCD

Cimarex Energy Co.

Location: Lea County, NM
Field: (Tres Equis) Sec 6, T24S, R33E
Facility: Tres Equis 5 State No.3

Slot: No.3 SHL
Well: No.3
Wellbore: No.3 PWB



JUN 26 2012

RECEIVED

Scale 1 inch = 800 ft
Easting (ft)
-400 0 400

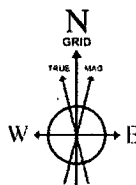
No 3 SHL
330' FNL
375' FWL
Tie On - 0.00ft TVD, 0.00ft N, 0.00ft E
Est KOP - 9023.00ft TVD, 0.00ft N, 0.00ft E
EOC 9500.39ft TVD, 468.87ft S, 2.90ft E

Well Profile Data

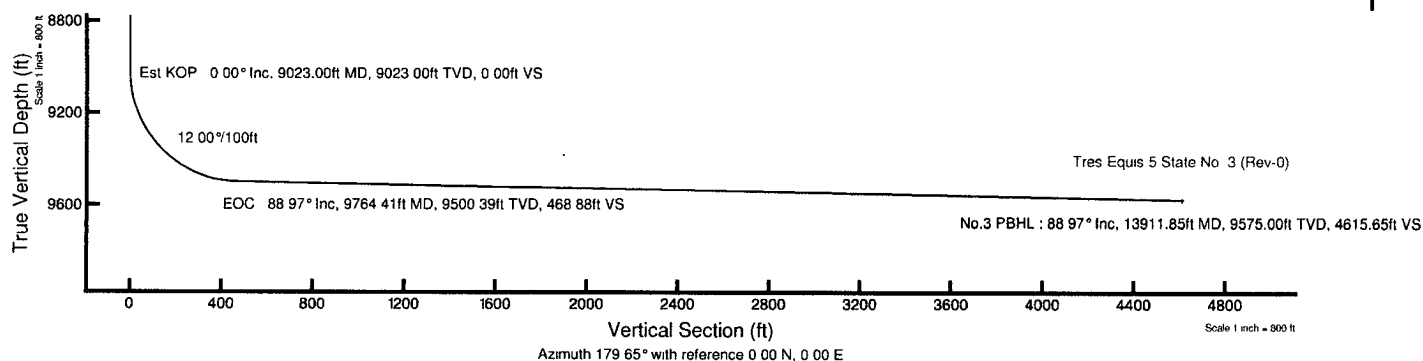
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.646	0.00	0.00	0.00	0.00	0.00
Est KOP	9023.00	0.000	179.646	9023.00	0.00	0.00	0.00	0.00
EOC	9764.41	88.969	179.646	9500.39	-468.87	2.90	12.00	468.88
No 3 PBHL	13911.85	88.969	179.646	9575.00	-4615.56	28.50	0.00	4615.65

Plot reference wellpath is Rev-A 0

True vertical depths are referenced to Rig on No 3 SHL (RT)	Grid System NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 3 SHL (RT)	North Reference Grid north
Rig on No 3 SHL (RT) to Mean Sea Level 3659 feet	Scale True distance
Mean Sea Level to Mud line (At Slot No 3 SHL) -3659 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by gentbry on 4/10/2012



BGGM (1945.0 to 2013.0) Dip 60.15° Field 48551.4 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



North (ft)



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.3 SHL
Area	Lea County, NM	Well	No.3
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.3 PWB
Facility	Tres Equis 5 State No.3		

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	4/10/2012 at 10:09:55 AM
Convergence at slot	0.39° East	Database/Source file	WA Midland/No.3_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	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W
Facility Reference Pt			767528.30	456572.70	32°15'11.070"N	103°36'05.937"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.3 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.3 SHL (RT) to Mean Sea Level	3659.00ft
Vertical Reference Pt	Rig on No.3 SHL (RT)	Rig on No.3 SHL (RT) to Mud Line at Slot (No.3 SHL)	0.00ft
MD Reference Pt	Rig on No.3 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.65°



Planned Wellpath Report

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**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.3 SHL
Area	Lea County, NM	Well	No.3
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.3 PWB
Facility	Tres Equis 5 State No.3		

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	179.646	0.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Tic On
100.00†	0.000	179.646	100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
200.00†	0.000	179.646	200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
300.00†	0.000	179.646	300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
400.00†	0.000	179.646	400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
500.00†	0.000	179.646	500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
600.00†	0.000	179.646	600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
700.00†	0.000	179.646	700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
800.00†	0.000	179.646	800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
900.00†	0.000	179.646	900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1000.00†	0.000	179.646	1000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1100.00†	0.000	179.646	1100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1200.00†	0.000	179.646	1200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Rustler
1300.00†	0.000	179.646	1300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1400.00†	0.000	179.646	1400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1420.00†	0.000	179.646	1420.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Salt
1500.00†	0.000	179.646	1500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1600.00†	0.000	179.646	1600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1700.00†	0.000	179.646	1700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1800.00†	0.000	179.646	1800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
1900.00†	0.000	179.646	1900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2000.00†	0.000	179.646	2000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2100.00†	0.000	179.646	2100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2200.00†	0.000	179.646	2200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2300.00†	0.000	179.646	2300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2400.00†	0.000	179.646	2400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2500.00†	0.000	179.646	2500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2600.00†	0.000	179.646	2600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2700.00†	0.000	179.646	2700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2800.00†	0.000	179.646	2800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
2900.00†	0.000	179.646	2900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3000.00†	0.000	179.646	3000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3100.00†	0.000	179.646	3100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3200.00†	0.000	179.646	3200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3300.00†	0.000	179.646	3300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Castille
3400.00†	0.000	179.646	3400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3500.00†	0.000	179.646	3500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3600.00†	0.000	179.646	3600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3700.00†	0.000	179.646	3700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3800.00†	0.000	179.646	3800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
3900.00†	0.000	179.646	3900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4000.00†	0.000	179.646	4000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4100.00†	0.000	179.646	4100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4200.00†	0.000	179.646	4200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4300.00†	0.000	179.646	4300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.3 SHL
Area	Lea County, NM	Well	No.3
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.3 PWB
Facility	Tres Equis 5 State No.3		

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	179.646	4400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4500.00†	0.000	179.646	4500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4600.00†	0.000	179.646	4600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4700.00†	0.000	179.646	4700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4800.00†	0.000	179.646	4800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
4900.00†	0.000	179.646	4900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5000.00†	0.000	179.646	5000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Delaware
5100.00†	0.000	179.646	5100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5200.00†	0.000	179.646	5200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5300.00†	0.000	179.646	5300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5400.00†	0.000	179.646	5400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5500.00†	0.000	179.646	5500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5600.00†	0.000	179.646	5600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5700.00†	0.000	179.646	5700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5800.00†	0.000	179.646	5800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
5900.00†	0.000	179.646	5900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6000.00†	0.000	179.646	6000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6100.00†	0.000	179.646	6100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6200.00†	0.000	179.646	6200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6300.00†	0.000	179.646	6300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6400.00†	0.000	179.646	6400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6500.00†	0.000	179.646	6500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6600.00†	0.000	179.646	6600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6700.00†	0.000	179.646	6700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6800.00†	0.000	179.646	6800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
6900.00†	0.000	179.646	6900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7000.00†	0.000	179.646	7000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7100.00†	0.000	179.646	7100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7200.00†	0.000	179.646	7200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7300.00†	0.000	179.646	7300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7400.00†	0.000	179.646	7400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7500.00†	0.000	179.646	7500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7600.00†	0.000	179.646	7600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7700.00†	0.000	179.646	7700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7800.00†	0.000	179.646	7800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
7900.00†	0.000	179.646	7900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8000.00†	0.000	179.646	8000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8100.00†	0.000	179.646	8100.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8200.00†	0.000	179.646	8200.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8300.00†	0.000	179.646	8300.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8400.00†	0.000	179.646	8400.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8500.00†	0.000	179.646	8500.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8575.00†	0.000	179.646	8575.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Basal Brushy Canyon
8600.00†	0.000	179.646	8600.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8700.00†	0.000	179.646	8700.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.3 SHL
Area	Lea County, NM	Well	No.3
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.3 PWB
Facility	Tres Equis 5 State No.3		

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	179.646	8800.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
8900.00†	0.000	179.646	8900.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Bone Spring
9000.00†	0.000	179.646	9000.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	
9023.00	0.000	179.646	9023.00	0.00	0.00	0.00	767528.30	456572.70	32°15'11.070"N	103°36'05.937"W	0.00	Est KOP
9100.00†	9.240	179.646	9099.67	6.20	-6.20	0.04	767528.34	456566.50	32°15'11.008"N	103°36'05.937"W	12.00	
9200.00†	21.240	179.646	9195.97	32.43	-32.43	0.20	767528.50	456540.27	32°15'10.749"N	103°36'05.937"W	12.00	
9300.00†	33.240	179.646	9284.72	78.12	-78.12	0.48	767528.78	456494.58	32°15'10.297"N	103°36'05.938"W	12.00	
9318.51†	35.461	179.646	9300.00	88.56	-88.56	0.55	767528.85	456484.14	32°15'10.193"N	103°36'05.938"W	12.00	Upper Bone Spring Shale
9400.00†	45.240	179.646	9362.03	141.26	-141.26	0.87	767529.17	456431.44	32°15'09.672"N	103°36'05.938"W	12.00	
9500.00†	57.240	179.646	9424.52	219.10	-219.09	1.35	767529.65	456353.61	32°15'08.902"N	103°36'05.939"W	12.00	
9600.00†	69.240	179.646	9469.46	308.23	-308.22	1.90	767530.20	456264.49	32°15'08.020"N	103°36'05.940"W	12.00	
9700.00†	81.240	179.646	9494.90	404.75	-404.74	2.50	767530.80	456167.97	32°15'07.065"N	103°36'05.940"W	12.00	
9764.41	88.969	179.646	9500.39	468.88	-468.87	2.90	767531.20	456103.85	32°15'06.430"N	103°36'05.941"W	12.00	EOC
9800.00†	88.969	179.646	9501.03	504.46	-504.45	3.11	767531.41	456068.27	32°15'06.078"N	103°36'05.941"W	0.00	
9900.00†	88.969	179.646	9502.83	604.44	-604.43	3.73	767532.03	455968.29	32°15'05.089"N	103°36'05.942"W	0.00	
10000.00†	88.969	179.646	9504.63	704.43	-704.41	4.35	767532.65	455868.31	32°15'04.099"N	103°36'05.942"W	0.00	
10100.00†	88.969	179.646	9506.42	804.41	-804.40	4.97	767533.27	455768.33	32°15'03.110"N	103°36'05.943"W	0.00	
10200.00†	88.969	179.646	9508.22	904.39	-904.38	5.58	767533.88	455668.35	32°15'02.120"N	103°36'05.944"W	0.00	
10300.00†	88.969	179.646	9510.02	1004.38	-1004.36	6.20	767534.50	455568.37	32°15'01.131"N	103°36'05.945"W	0.00	
10400.00†	88.969	179.646	9511.82	1104.36	-1104.34	6.82	767535.12	455468.40	32°15'00.142"N	103°36'05.945"W	0.00	
10500.00†	88.969	179.646	9513.62	1204.35	-1204.32	7.44	767535.74	455368.42	32°14'59.152"N	103°36'05.946"W	0.00	
10600.00†	88.969	179.646	9515.42	1304.33	-1304.31	8.05	767536.35	455268.44	32°14'58.163"N	103°36'05.947"W	0.00	
10700.00†	88.969	179.646	9517.22	1404.31	-1404.29	8.67	767536.97	455168.46	32°14'57.174"N	103°36'05.948"W	0.00	
10800.00†	88.969	179.646	9519.02	1504.30	-1504.27	9.29	767537.59	455068.48	32°14'56.184"N	103°36'05.948"W	0.00	
10900.00†	88.969	179.646	9520.82	1604.28	-1604.25	9.91	767538.21	454968.50	32°14'55.195"N	103°36'05.949"W	0.00	
11000.00†	88.969	179.646	9522.62	1704.27	-1704.23	10.52	767538.82	454868.53	32°14'54.206"N	103°36'05.950"W	0.00	
11100.00†	88.969	179.646	9524.41	1804.25	-1804.21	11.14	767539.44	454768.55	32°14'53.216"N	103°36'05.951"W	0.00	
11200.00†	88.969	179.646	9526.21	1904.23	-1904.20	11.76	767540.06	454668.57	32°14'52.227"N	103°36'05.951"W	0.00	
11300.00†	88.969	179.646	9528.01	2004.22	-2004.18	12.38	767540.68	454568.59	32°14'51.238"N	103°36'05.952"W	0.00	
11400.00†	88.969	179.646	9529.81	2104.20	-2104.16	12.99	767541.29	454468.61	32°14'50.248"N	103°36'05.953"W	0.00	
11500.00†	88.969	179.646	9531.61	2204.18	-2204.14	13.61	767541.91	454368.63	32°14'49.259"N	103°36'05.954"W	0.00	
11600.00†	88.969	179.646	9533.41	2304.17	-2304.12	14.23	767542.53	454268.65	32°14'48.270"N	103°36'05.954"W	0.00	
11700.00†	88.969	179.646	9535.21	2404.15	-2404.11	14.85	767543.14	454168.68	32°14'47.280"N	103°36'05.955"W	0.00	
11800.00†	88.969	179.646	9537.01	2504.14	-2504.09	15.46	767543.76	454068.70	32°14'46.291"N	103°36'05.956"W	0.00	
11900.00†	88.969	179.646	9538.81	2604.12	-2604.07	16.08	767544.38	453968.72	32°14'45.302"N	103°36'05.957"W	0.00	
12000.00†	88.969	179.646	9540.61	2704.10	-2704.05	16.70	767545.00	453868.74	32°14'44.312"N	103°36'05.957"W	0.00	
12100.00†	88.969	179.646	9542.40	2804.09	-2804.03	17.31	767545.61	453768.76	32°14'43.323"N	103°36'05.958"W	0.00	
12200.00†	88.969	179.646	9544.20	2904.07	-2904.02	17.93	767546.23	453668.78	32°14'42.333"N	103°36'05.959"W	0.00	
12300.00†	88.969	179.646	9546.00	3004.05	-3004.00	18.55	767546.85	453568.81	32°14'41.344"N	103°36'05.960"W	0.00	
12400.00†	88.969	179.646	9547.80	3104.04	-3103.98	19.17	767547.47	453468.83	32°14'40.355"N	103°36'05.960"W	0.00	
12500.00†	88.969	179.646	9549.60	3204.02	-3203.96	19.78	767548.08	453368.85	32°14'39.365"N	103°36'05.961"W	0.00	
12600.00†	88.969	179.646	9551.40	3304.01	-3303.94	20.40	767548.70	453268.87	32°14'38.376"N	103°36'05.962"W	0.00	
12700.00†	88.969	179.646	9553.20	3403.99	-3403.93	21.02	767549.32	453168.89	32°14'37.387"N	103°36'05.963"W	0.00	
12800.00†	88.969	179.646	9555.00	3503.97	-3503.91	21.64	767549.94	453068.91	32°14'36.397"N	103°36'05.963"W	0.00	
12900.00†	88.969	179.646	9556.80	3603.96	-3603.89	22.25	767550.55	452968.93	32°14'35.408"N	103°36'05.964"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.3 SHL
Area	Lea County, NM	Well	No.3
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.3 PWB
Facility	Tres Equis 5 State No.3		

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†	88.969	179.646	9558.60	3703.94	-3703.87	22.87	767551.17	452868.96	32°14'34.419"N	103°36'05.965"W	0.00	
13100.00†	88.969	179.646	9560.39	3803.93	-3803.85	23.49	767551.79	452768.98	32°14'33.429"N	103°36'05.966"W	0.00	
13200.00†	88.969	179.646	9562.19	3903.91	-3903.83	24.11	767552.41	452669.00	32°14'32.440"N	103°36'05.966"W	0.00	
13300.00†	88.969	179.646	9563.99	4003.89	-4003.82	24.72	767553.02	452569.02	32°14'31.451"N	103°36'05.967"W	0.00	
13400.00†	88.969	179.646	9565.79	4103.88	-4103.80	25.34	767553.64	452469.04	32°14'30.461"N	103°36'05.968"W	0.00	
13500.00†	88.969	179.646	9567.59	4203.86	-4203.78	25.96	767554.26	452369.06	32°14'29.472"N	103°36'05.969"W	0.00	
13600.00†	88.969	179.646	9569.39	4303.84	-4303.76	26.58	767554.87	452269.09	32°14'28.483"N	103°36'05.969"W	0.00	
13700.00†	88.969	179.646	9571.19	4403.83	-4403.74	27.19	767555.49	452169.11	32°14'27.493"N	103°36'05.970"W	0.00	
13800.00†	88.969	179.646	9572.99	4503.81	-4503.73	27.81	767556.11	452069.13	32°14'26.504"N	103°36'05.971"W	0.00	
13900.00†	88.969	179.646	9574.79	4603.80	-4603.71	28.43	767556.73	451969.15	32°14'25.514"N	103°36'05.971"W	0.00	
13911.85	88.969	179.646	9575.00 ¹	4615.65	-4615.56	28.50	767556.80	451957.30	32°14'25.397"N	103°36'05.972"W	0.00	No.3 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 5 State No. 3 (Rev-0)	13911.85	9575.00	-4615.56	28.50	767556.80	451957.30	32°14'25.397"N	103°36'05.972"W	point

SURVEY PROGRAM - Ref Wellbore: No.3 PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13911.85	NaviTrak (Standard)		No.3 PWB