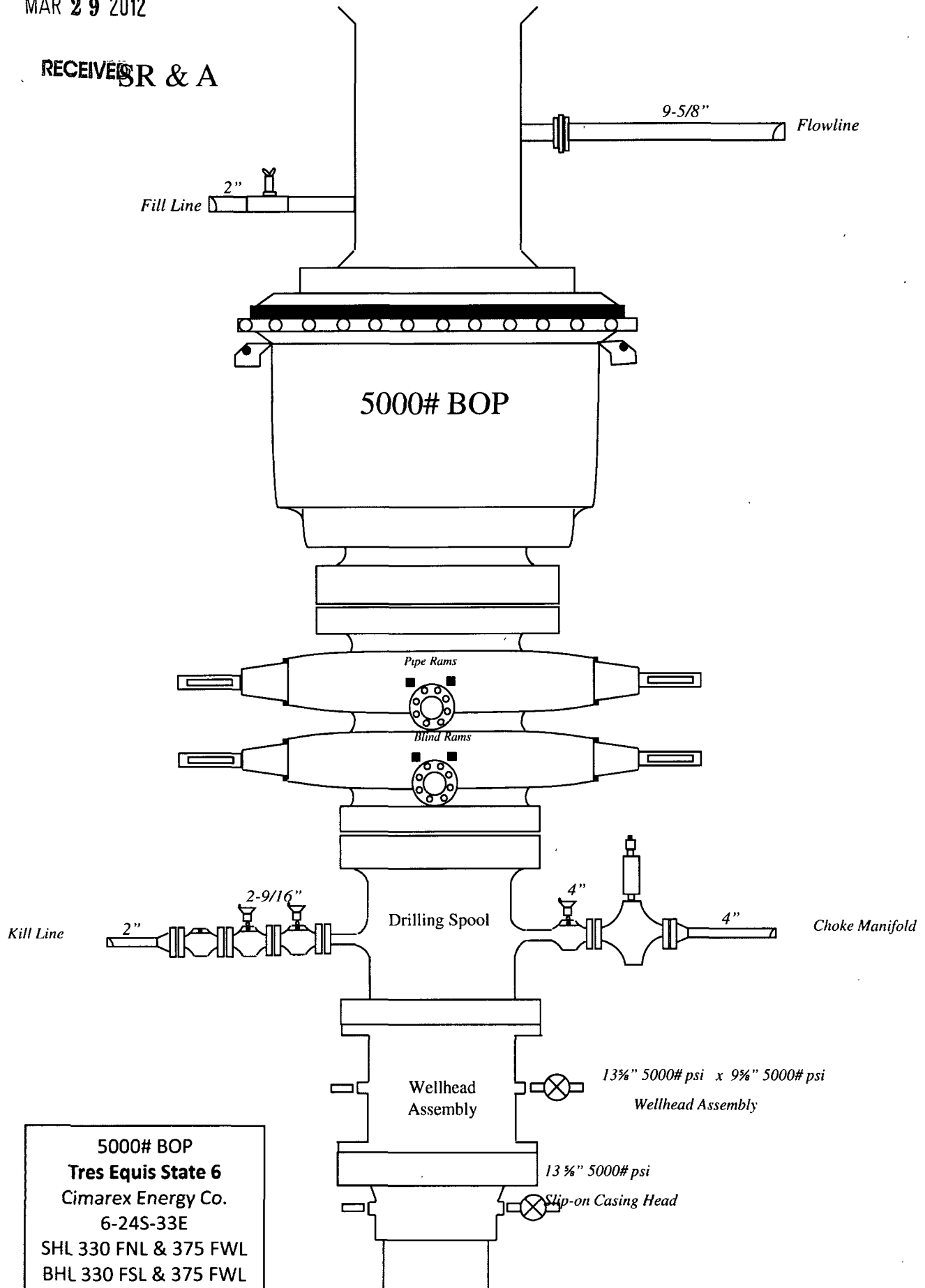


MAR 29 2012

RECEIVED SR & A



5000# BOP

Tres Equis State 6

Cimarex Energy Co.

6-24S-33E

SHL 330 FNL & 375 FWL

BHL 330 FSL & 375 FWL

Lea County, NM

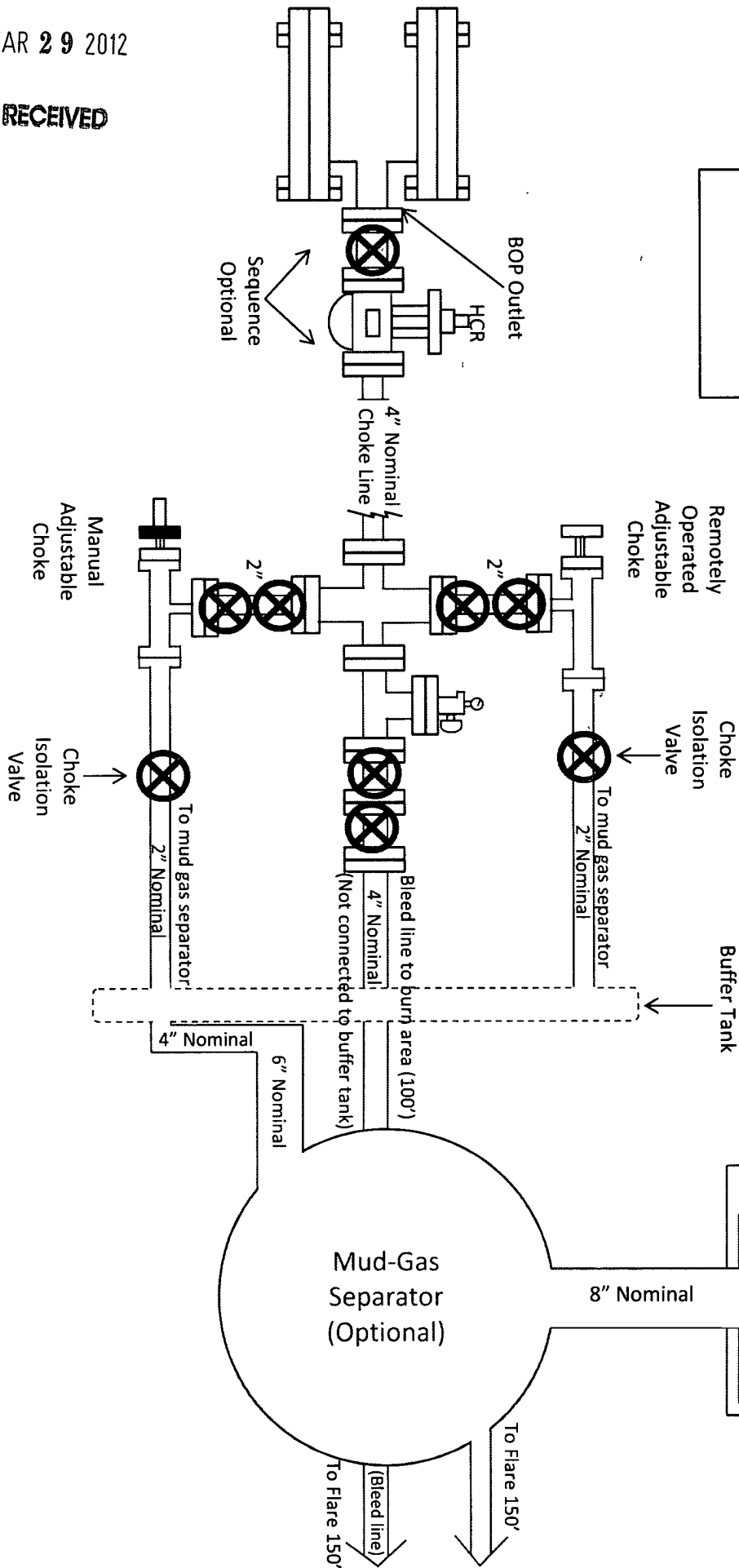
MAR 29 2012

MAR 29 2012

RECEIVED

Drilling Operations Choke Manifold 5M Service

Choke Manifold Diagram
Tres Equis State 6
 Cimarex Energy Co.
 6-24S-33E
 SHL 330 FNL & 375 FWL
 BHL 330 FSL & 375 FWL
 Lea County, NM



CIMAREX

Cimarex Energy Co.

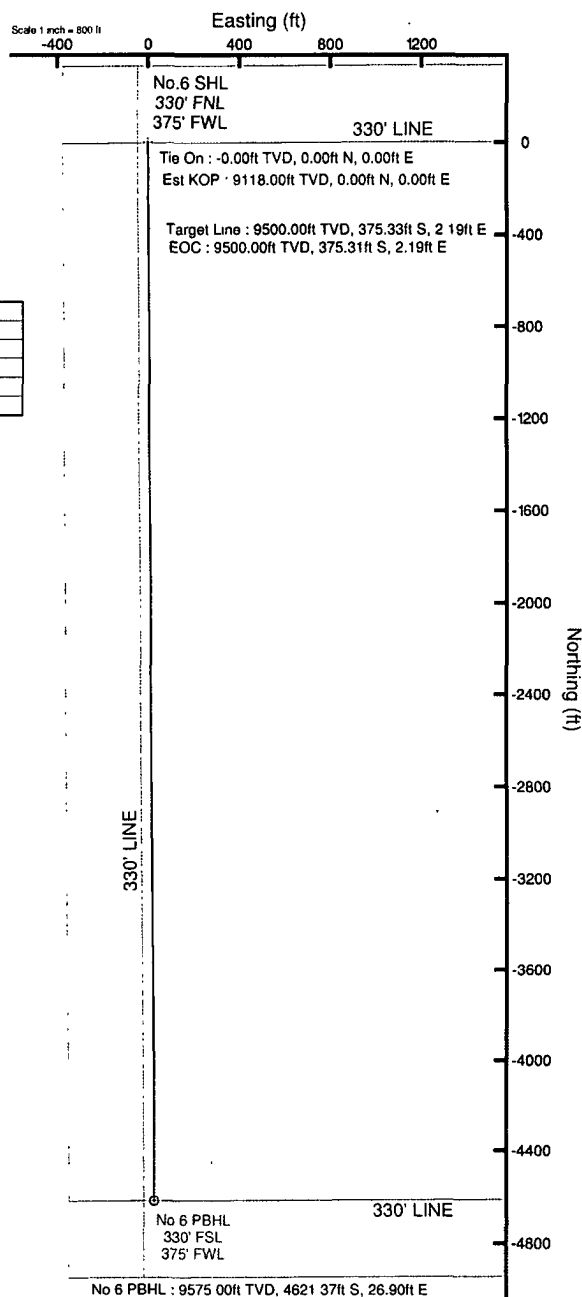
Location: Lea County, NM
Field: (Tres Equis) Sec 6, T24S, R33E
Facility: Tres Equis State No 6

Slot: No.6 SHL
Well: No.6
Wellbore: No 6 PWB

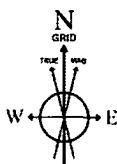
BAKER HUGHES

Well Profile Data

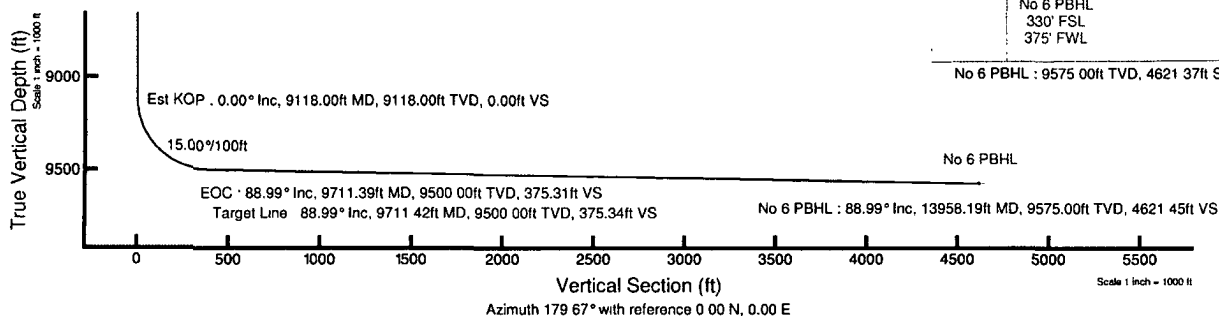
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.666	0.00	0.00	0.00	0.00	0.00
Est KOP	9118.00	0.000	179.666	9118.00	0.00	0.00	0.00	0.00
EOC	9711.39	88.988	179.666	9500.00	-375.31	2.19	15.00	375.31
Target Line	9711.42	88.988	179.667	9500.00	-375.33	2.19	2.00	375.34
No 6 PBHL	13958.19	88.988	179.667	9575.00	-4621.37	26.90	0.00	4621.45



Plot reference wellpath is Rev-A 0	
True vertical depths are referenced to Rig on No 6 SHL (RT)	Grid System, NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No 6 SHL (RT)	North Reference, Grid north
Rig on No 6 SHL (RT) to Mean Sea Level 3648 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No 6 SHL) -3648 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentry on 3/27/2012



BGGM (1945 0 to 2013 0) Dip 60.15° Field 48554.1 nT
Magnetic North is 7.59 degrees East of True North (at 3/27/2012)
Grid North is 0.38 degrees East of True North
To correct azimuth from True to Grid subtract 0.38 degrees
To correct azimuth from Magnetic to Grid add 7.21 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.21 = 97.21





Planned Wellpath Report

Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION

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

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	0.999965	Report Generated	3/27/2012 at 9:57:45 AM
Convergence at slot	0.38° East	Database/Source file	WA Midland/No.6_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	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W
Facility Reference Pt			762307.00	456547.10	32°15'11.164"N	103°37'06.739"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.6 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.6 SHL (RT) to Mean Sea Level	3648.00ft
Vertical Reference Pt	Rig on No.6 SHL (RT)	Rig on No.6 SHL (RT) to Mud Line at Slot (No.6 SHL)	0.00ft
MD Reference Pt	Rig on No.6 SHL (RT)	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.6 SHL
Area	Lea County, NM	Well	No.6
Field	(Tres Equis) Sec 6, T24S, R33E	Wellbore	No.6 PWB
Facility	Tres Equis State No.6		

WELLPATH DATA (147 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	179.666	0.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Tie On
100.00†	0.000	179.666	100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
200.00†	0.000	179.666	200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
300.00†	0.000	179.666	300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
400.00†	0.000	179.666	400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
500.00†	0.000	179.666	500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
600.00†	0.000	179.666	600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
700.00†	0.000	179.666	700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
800.00†	0.000	179.666	800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
900.00†	0.000	179.666	900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1000.00†	0.000	179.666	1000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1100.00†	0.000	179.666	1100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1200.00†	0.000	179.666	1200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Rustler
1300.00†	0.000	179.666	1300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1400.00†	0.000	179.666	1400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1420.00†	0.000	179.666	1420.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Salt
1500.00†	0.000	179.666	1500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1600.00†	0.000	179.666	1600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1700.00†	0.000	179.666	1700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1800.00†	0.000	179.666	1800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
1900.00†	0.000	179.666	1900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2000.00†	0.000	179.666	2000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2100.00†	0.000	179.666	2100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2200.00†	0.000	179.666	2200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2300.00†	0.000	179.666	2300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2400.00†	0.000	179.666	2400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2500.00†	0.000	179.666	2500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2600.00†	0.000	179.666	2600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2700.00†	0.000	179.666	2700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2800.00†	0.000	179.666	2800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
2900.00†	0.000	179.666	2900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3000.00†	0.000	179.666	3000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3100.00†	0.000	179.666	3100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3200.00†	0.000	179.666	3200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3300.00†	0.000	179.666	3300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Castille
3400.00†	0.000	179.666	3400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3500.00†	0.000	179.666	3500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3600.00†	0.000	179.666	3600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3700.00†	0.000	179.666	3700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3800.00†	0.000	179.666	3800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
3900.00†	0.000	179.666	3900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4000.00†	0.000	179.666	4000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4100.00†	0.000	179.666	4100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4200.00†	0.000	179.666	4200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4300.00†	0.000	179.666	4300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (147 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	179.666	4400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4500.00†	0.000	179.666	4500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4600.00†	0.000	179.666	4600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4700.00†	0.000	179.666	4700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4800.00†	0.000	179.666	4800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
4900.00†	0.000	179.666	4900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5000.00†	0.000	179.666	5000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Delaware
5100.00†	0.000	179.666	5100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5200.00†	0.000	179.666	5200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5300.00†	0.000	179.666	5300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5400.00†	0.000	179.666	5400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5500.00†	0.000	179.666	5500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5600.00†	0.000	179.666	5600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5700.00†	0.000	179.666	5700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5800.00†	0.000	179.666	5800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
5900.00†	0.000	179.666	5900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6000.00†	0.000	179.666	6000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6100.00†	0.000	179.666	6100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6200.00†	0.000	179.666	6200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6300.00†	0.000	179.666	6300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6400.00†	0.000	179.666	6400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6500.00†	0.000	179.666	6500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6600.00†	0.000	179.666	6600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6700.00†	0.000	179.666	6700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6800.00†	0.000	179.666	6800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
6900.00†	0.000	179.666	6900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7000.00†	0.000	179.666	7000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7100.00†	0.000	179.666	7100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7200.00†	0.000	179.666	7200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7300.00†	0.000	179.666	7300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7400.00†	0.000	179.666	7400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7500.00†	0.000	179.666	7500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7600.00†	0.000	179.666	7600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7700.00†	0.000	179.666	7700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7800.00†	0.000	179.666	7800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
7900.00†	0.000	179.666	7900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8000.00†	0.000	179.666	8000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8100.00†	0.000	179.666	8100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8200.00†	0.000	179.666	8200.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8300.00†	0.000	179.666	8300.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8400.00†	0.000	179.666	8400.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8500.00†	0.000	179.666	8500.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8575.00†	0.000	179.666	8575.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Basal Brushy Canyon
8600.00†	0.000	179.666	8600.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8700.00†	0.000	179.666	8700.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (147 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	179.666	8800.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
8900.00†	0.000	179.666	8900.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Bone Spring
9000.00†	0.000	179.666	9000.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
9100.00†	0.000	179.666	9100.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	
9118.00†	0.000	179.666	9118.00	0.00	0.00	0.00	762307.00	456547.10	32°15'11.164"N	103°37'06.739"W	0.00	Est KOP
9200.00†	12.297	179.666	9199.37	8.77	-8.77	0.05	762307.05	456538.33	32°15'11.078"N	103°37'06.739"W	15.00	
9300.00†	27.294	179.666	9293.19	42.54	-42.53	0.25	762307.25	456504.57	32°15'10.743"N	103°37'06.739"W	15.00	
9307.70†	28.448	179.666	9300.00	46.13	-46.13	0.27	762307.27	456500.97	32°15'10.708"N	103°37'06.739"W	15.00	Upper Bone Spring Shale
9400.00†	42.290	179.666	9375.08	99.43	-99.43	0.58	762307.58	456447.67	32°15'10.180"N	103°37'06.740"W	15.00	
9500.00†	57.287	179.666	9439.46	175.58	-175.58	1.02	762308.02	456371.53	32°15'09.427"N	103°37'06.740"W	15.00	
9600.00†	72.283	179.666	9481.94	265.80	-265.79	1.55	762308.55	456281.32	32°15'08.534"N	103°37'06.741"W	15.00	
9700.00†	87.280	179.666	9499.63	363.93	-363.92	2.12	762309.12	456183.19	32°15'07.563"N	103°37'06.742"W	15.00	
9711.39	88.988	179.666	9500.00	375.31	-375.31	2.19	762309.19	456171.81	32°15'07.451"N	103°37'06.742"W	15.00	EOC
9711.42	88.988	179.667	9500.00	375.34	-375.33	2.19	762309.19	456171.78	32°15'07.450"N	103°37'06.742"W	2.00	Target Line
9800.00†	88.988	179.667	9501.56	463.91	-463.90	2.70	762309.70	456083.22	32°15'06.574"N	103°37'06.743"W	0.00	
9900.00†	88.988	179.667	9503.33	563.89	-563.88	3.29	762310.29	455983.24	32°15'05.585"N	103°37'06.744"W	0.00	
10000.00†	88.988	179.667	9505.10	663.88	-663.87	3.87	762310.87	455883.26	32°15'04.595"N	103°37'06.745"W	0.00	
10100.00†	88.988	179.667	9506.86	763.86	-763.85	4.45	762311.45	455783.28	32°15'03.606"N	103°37'06.746"W	0.00	
10200.00†	88.988	179.667	9508.63	863.85	-863.83	5.03	762312.03	455683.30	32°15'02.616"N	103°37'06.747"W	0.00	
10300.00†	88.988	179.667	9510.40	963.83	-963.81	5.61	762312.61	455583.32	32°15'01.627"N	103°37'06.748"W	0.00	
10400.00†	88.988	179.667	9512.16	1063.81	-1063.80	6.20	762313.19	455483.34	32°15'00.638"N	103°37'06.749"W	0.00	
10500.00†	88.988	179.667	9513.93	1163.80	-1163.78	6.78	762313.78	455383.36	32°14'59.648"N	103°37'06.750"W	0.00	
10600.00†	88.988	179.667	9515.69	1263.78	-1263.76	7.36	762314.36	455283.38	32°14'58.659"N	103°37'06.751"W	0.00	
10700.00†	88.988	179.667	9517.46	1363.77	-1363.74	7.94	762314.94	455183.41	32°14'57.670"N	103°37'06.752"W	0.00	
10800.00†	88.988	179.667	9519.23	1463.75	-1463.73	8.52	762315.52	455083.43	32°14'56.680"N	103°37'06.753"W	0.00	
10900.00†	88.988	179.667	9520.99	1563.74	-1563.71	9.10	762316.10	454983.45	32°14'55.691"N	103°37'06.754"W	0.00	
11000.00†	88.988	179.667	9522.76	1663.72	-1663.69	9.69	762316.69	454883.47	32°14'54.702"N	103°37'06.755"W	0.00	
11100.00†	88.988	179.667	9524.52	1763.71	-1763.68	10.27	762317.27	454783.49	32°14'53.712"N	103°37'06.756"W	0.00	
11200.00†	88.988	179.667	9526.29	1863.69	-1863.66	10.85	762317.85	454683.51	32°14'52.723"N	103°37'06.757"W	0.00	
11300.00†	88.988	179.667	9528.06	1963.67	-1963.64	11.43	762318.43	454583.53	32°14'51.734"N	103°37'06.758"W	0.00	
11400.00†	88.988	179.667	9529.82	2063.66	-2063.62	12.01	762319.01	454483.55	32°14'50.744"N	103°37'06.759"W	0.00	
11500.00†	88.988	179.667	9531.59	2163.64	-2163.61	12.60	762319.60	454383.57	32°14'49.755"N	103°37'06.760"W	0.00	
11600.00†	88.988	179.667	9533.35	2263.63	-2263.59	13.18	762320.18	454283.59	32°14'48.765"N	103°37'06.761"W	0.00	
11700.00†	88.988	179.667	9535.12	2363.61	-2363.57	13.76	762320.76	454183.62	32°14'47.776"N	103°37'06.762"W	0.00	
11800.00†	88.988	179.667	9536.89	2463.60	-2463.55	14.34	762321.34	454083.64	32°14'46.787"N	103°37'06.763"W	0.00	
11900.00†	88.988	179.667	9538.65	2563.58	-2563.54	14.92	762321.92	453983.66	32°14'45.797"N	103°37'06.764"W	0.00	
12000.00†	88.988	179.667	9540.42	2663.57	-2663.52	15.51	762322.51	453883.68	32°14'44.808"N	103°37'06.765"W	0.00	
12100.00†	88.988	179.667	9542.18	2763.55	-2763.50	16.09	762323.09	453783.70	32°14'43.819"N	103°37'06.766"W	0.00	
12200.00†	88.988	179.667	9543.95	2863.53	-2863.49	16.67	762323.67	453683.72	32°14'42.829"N	103°37'06.767"W	0.00	
12300.00†	88.988	179.667	9545.72	2963.52	-2963.47	17.25	762324.25	453583.74	32°14'41.840"N	103°37'06.768"W	0.00	
12400.00†	88.988	179.667	9547.48	3063.50	-3063.45	17.83	762324.83	453483.76	32°14'40.851"N	103°37'06.769"W	0.00	
12500.00†	88.988	179.667	9549.25	3163.49	-3163.43	18.42	762325.41	453383.78	32°14'39.861"N	103°37'06.770"W	0.00	
12600.00†	88.988	179.667	9551.01	3263.47	-3263.42	19.00	762326.00	453283.80	32°14'38.872"N	103°37'06.771"W	0.00	
12700.00†	88.988	179.667	9552.78	3363.46	-3363.40	19.58	762326.58	453183.83	32°14'37.883"N	103°37'06.772"W	0.00	
12800.00†	88.988	179.667	9554.55	3463.44	-3463.38	20.16	762327.16	453083.85	32°14'36.893"N	103°37'06.772"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (147 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
12900.00†	88.988	179.667	9556.31	3563.42	-3563.36	20.74	762327.74	452983.87	32°14'35.904"N	103°37'06.773"W	0.00	
13000.00†	88.988	179.667	9558.08	3663.41	-3663.35	21.33	762328.32	452883.89	32°14'34.914"N	103°37'06.774"W	0.00	
13100.00†	88.988	179.667	9559.84	3763.39	-3763.33	21.91	762328.91	452783.91	32°14'33.925"N	103°37'06.775"W	0.00	
13200.00†	88.988	179.667	9561.61	3863.38	-3863.31	22.49	762329.49	452683.93	32°14'32.936"N	103°37'06.776"W	0.00	
13300.00†	88.988	179.667	9563.38	3963.36	-3963.30	23.07	762330.07	452583.95	32°14'31.946"N	103°37'06.777"W	0.00	
13400.00†	88.988	179.667	9565.14	4063.35	-4063.28	23.65	762330.65	452483.97	32°14'30.957"N	103°37'06.778"W	0.00	
13500.00†	88.988	179.667	9566.91	4163.33	-4163.26	24.23	762331.23	452383.99	32°14'29.968"N	103°37'06.779"W	0.00	
13600.00†	88.988	179.667	9568.67	4263.32	-4263.24	24.82	762331.82	452284.01	32°14'28.978"N	103°37'06.780"W	0.00	
13700.00†	88.988	179.667	9570.44	4363.30	-4363.23	25.40	762332.40	452184.04	32°14'27.989"N	103°37'06.781"W	0.00	
13800.00†	88.988	179.667	9572.21	4463.28	-4463.21	25.98	762332.98	452084.06	32°14'27.000"N	103°37'06.782"W	0.00	
13900.00†	88.988	179.667	9573.97	4563.27	-4563.19	26.56	762333.56	451984.08	32°14'26.010"N	103°37'06.783"W	0.00	
13958.19	88.988	179.667	9575.00†	4621.45	-4621.37	26.90	762333.90	451925.90	32°14'25.435"N	103°37'06.784"W	0.00	No.6 PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.6 PBHL	13958.19	9575.00	-4621.37	26.90	762333.90	451925.90	32°14'25.435"N	103°37'06.784"W	point

SURVEY PROGRAM - Ref Wellbore: No.6 PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13958.19	NaviTrak (Standard)		No.6 PWB