

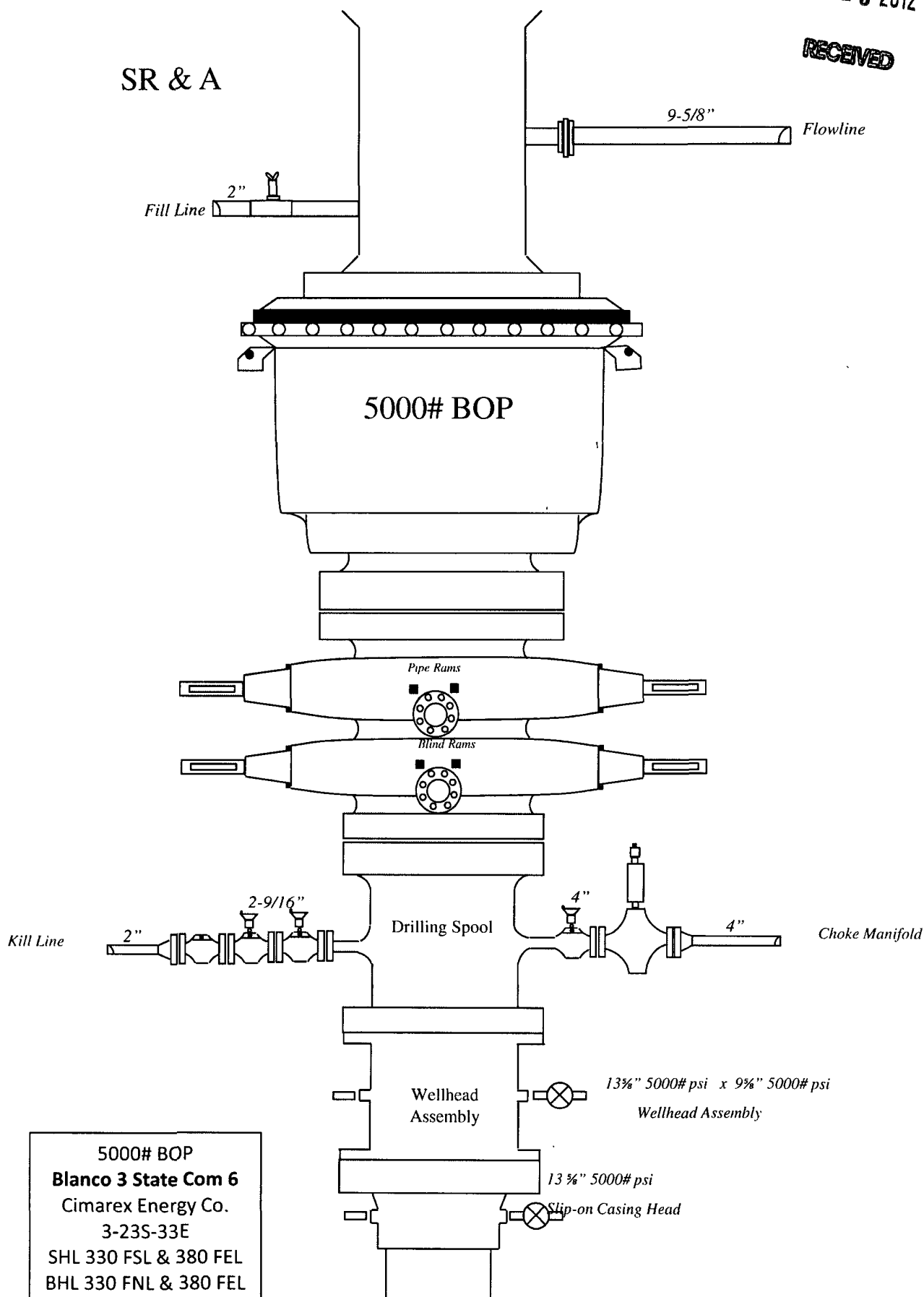
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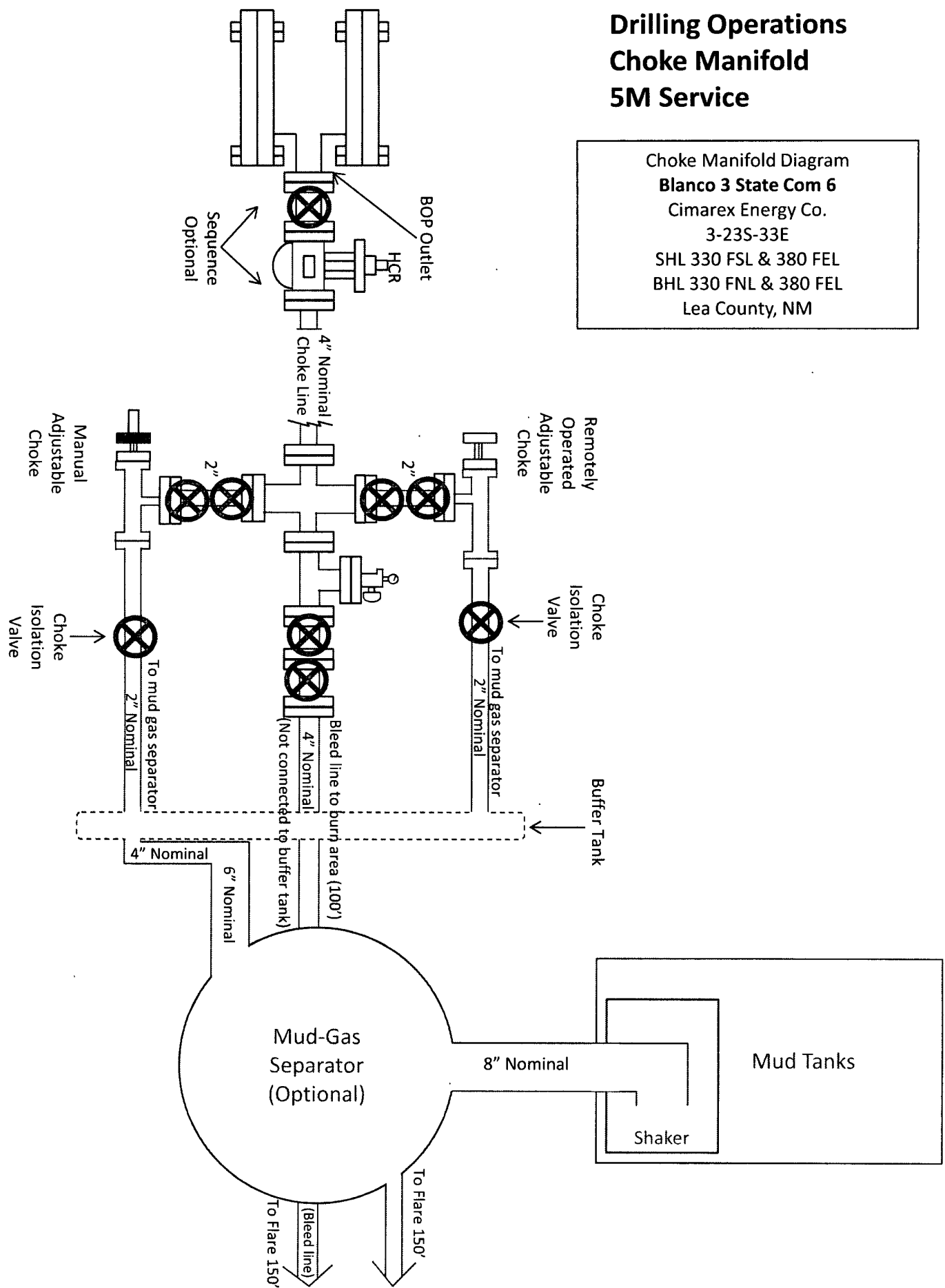


5000# BOP
Blanco 3 State Com 6
 Cimarex Energy Co.
 3-23S-33E
 SHL 330 FSL & 380 FEL
 BHL 330 FNL & 380 FEL
 Lea County, NM

JUN 18 2012

Drilling Operations
Choke Manifold
5M Service

Choke Manifold Diagram
Blanco 3 State Com 6
Cimarex Energy Co.
3-23S-33E
SHL 330 FSL & 380 FEL
BHL 330 FNL & 380 FEL
Lea County, NM





Cimarex Energy Co.

Location: Lea County, NM
Field: (Blanco) Sec 3, T23S, R33E
Facility: Blanco 3 State Com No. 6

Slot: Slot #1
Well: No. 6
Wellbore: No. 6 (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	359.517	0.00	0.00	0.00	0.00	0.00
KOP	9350.00	0.000	359.517	9350.00	0.00	0.00	0.00	0.00
EOB/SOH	10056.86	90.000	359.517	9800.00	449.98	-3.80	12.73	450.00
TD/PBHL	14218.44	90.000	359.517	9800.00	4611.42	-38.90	0.00	4611.59

Location Information

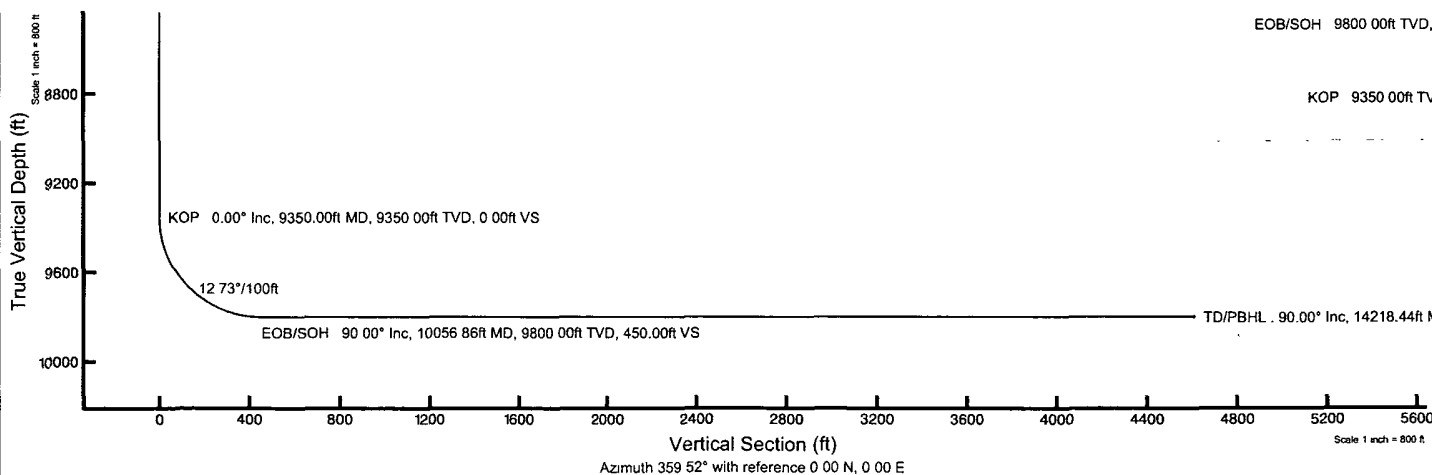
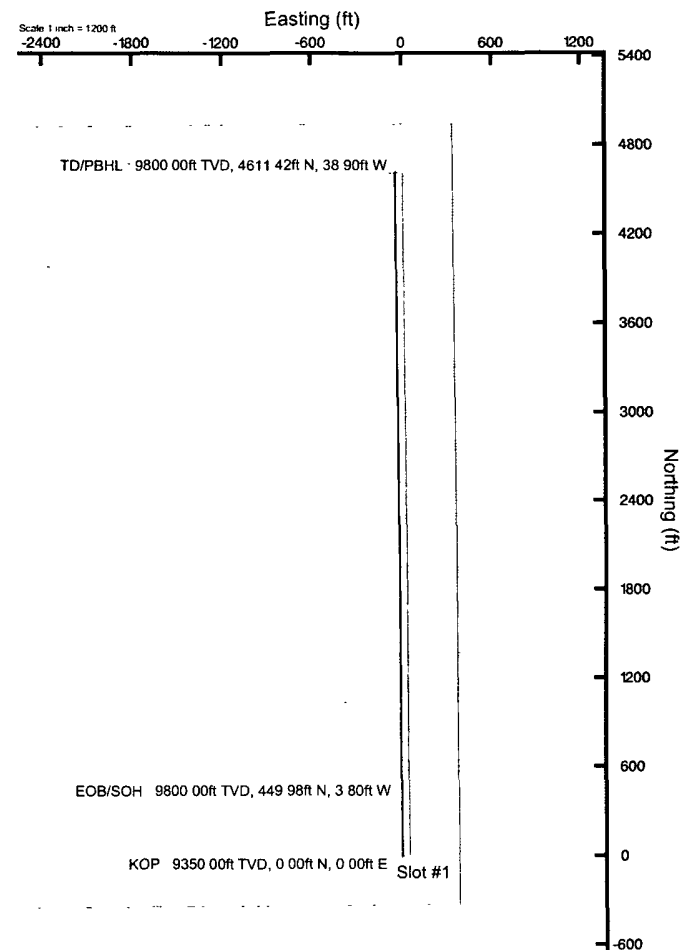
Facility Name			Gnd East (US ft)	Gnd North (US ft)	Latitude	Longitude
Blanco 3 State Com No. 6			782398.900	483723.500	32°19'38.692"N	103°33'10.477"W
Slot	Local N (ft)	Local E (ft)	Gnd East (US ft)	Gnd North (US ft)	Latitude	Longitude
Slot #1	0.00	0.00	782398.900	483723.500	32°19'38.692"N	103°33'10.477"W
Rig on Slot #1 (RT) to Mud line (At Slot: Slot #1)					0ft	
Mean Sea Level to Mud line (At Slot: Slot #1)					-3550ft	
Rig on Slot #1 (RT) to Mean Sea Level					3550ft	

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Gnd East (US ft)	Gnd North (US ft)	Latitude	Longitude
Blanco 3 State Com No. 6 (Rev-0)	14218.44	9800.00	4611.42	-38.90	782398.90	483334.80	32°20'24.323"N	103°33'10.539"W

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Gnd East (US ft)	Gnd North (US ft)	Latitude	Longitude
14218.44	90.000	359.517	9800.00	4611.42	-38.90	782398.90	483334.80	32°20'24.323"N	103°33'10.539"W



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com 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	Daviarcm
Scale	0.999976	Report Generated	6/6/2012 at 9:20:24 AM
Convergence at slot	n/a	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	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W
Facility Reference Pt			782398.90	483723.50	32°19'38.692"N	103°33'10.477"W
Field Reference Pt			780799.10	483712.00	32°19'38.693"N	103°33'29.122"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Slot #1 (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on Slot #1 (RT) to Mean Sea Level	3550.00ft
Vertical Reference Pt	Rig on Slot #1 (RT)	Rig on Slot #1 (RT) to Mud Line at Slot (Slot #1)	0.00ft
MD Reference Pt	Rig on Slot #1 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.52°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com No. 6		

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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00	0.000	359.517	0.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
100.00†	0.000	359.517	100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
200.00†	0.000	359.517	200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
300.00†	0.000	359.517	300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
400.00†	0.000	359.517	400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
500.00†	0.000	359.517	500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
600.00†	0.000	359.517	600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
700.00†	0.000	359.517	700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
800.00†	0.000	359.517	800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
900.00†	0.000	359.517	900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1000.00†	0.000	359.517	1000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1100.00†	0.000	359.517	1100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1200.00†	0.000	359.517	1200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1300.00†	0.000	359.517	1300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1400.00†	0.000	359.517	1400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1500.00†	0.000	359.517	1500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1600.00†	0.000	359.517	1600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1700.00†	0.000	359.517	1700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1800.00†	0.000	359.517	1800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
1900.00†	0.000	359.517	1900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2000.00†	0.000	359.517	2000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2100.00†	0.000	359.517	2100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2200.00†	0.000	359.517	2200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2300.00†	0.000	359.517	2300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2400.00†	0.000	359.517	2400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2500.00†	0.000	359.517	2500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2600.00†	0.000	359.517	2600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2700.00†	0.000	359.517	2700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2800.00†	0.000	359.517	2800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
2900.00†	0.000	359.517	2900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com No. 6		

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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
3000.00†	0.000	359.517	3000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3100.00†	0.000	359.517	3100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3200.00†	0.000	359.517	3200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3300.00†	0.000	359.517	3300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3400.00†	0.000	359.517	3400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3500.00†	0.000	359.517	3500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3600.00†	0.000	359.517	3600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3700.00†	0.000	359.517	3700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3800.00†	0.000	359.517	3800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
3900.00†	0.000	359.517	3900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4000.00†	0.000	359.517	4000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4100.00†	0.000	359.517	4100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4200.00†	0.000	359.517	4200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4300.00†	0.000	359.517	4300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4400.00†	0.000	359.517	4400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4500.00†	0.000	359.517	4500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4600.00†	0.000	359.517	4600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4700.00†	0.000	359.517	4700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4800.00†	0.000	359.517	4800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
4900.00†	0.000	359.517	4900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5000.00†	0.000	359.517	5000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5100.00†	0.000	359.517	5100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5200.00†	0.000	359.517	5200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5300.00†	0.000	359.517	5300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5400.00†	0.000	359.517	5400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5500.00†	0.000	359.517	5500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5600.00†	0.000	359.517	5600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5700.00†	0.000	359.517	5700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5800.00†	0.000	359.517	5800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
5900.00†	0.000	359.517	5900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com No. 6		

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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
6000.00†	0.000	359.517	6000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6100.00†	0.000	359.517	6100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6200.00†	0.000	359.517	6200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6300.00†	0.000	359.517	6300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6400.00†	0.000	359.517	6400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6500.00†	0.000	359.517	6500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6600.00†	0.000	359.517	6600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6700.00†	0.000	359.517	6700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6800.00†	0.000	359.517	6800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
6900.00†	0.000	359.517	6900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7000.00†	0.000	359.517	7000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7100.00†	0.000	359.517	7100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7200.00†	0.000	359.517	7200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7300.00†	0.000	359.517	7300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7400.00†	0.000	359.517	7400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7500.00†	0.000	359.517	7500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7600.00†	0.000	359.517	7600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7700.00†	0.000	359.517	7700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7800.00†	0.000	359.517	7800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
7900.00†	0.000	359.517	7900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8000.00†	0.000	359.517	8000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8100.00†	0.000	359.517	8100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8200.00†	0.000	359.517	8200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8300.00†	0.000	359.517	8300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8400.00†	0.000	359.517	8400.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8500.00†	0.000	359.517	8500.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8600.00†	0.000	359.517	8600.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8700.00†	0.000	359.517	8700.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8800.00†	0.000	359.517	8800.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
8900.00†	0.000	359.517	8900.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com No. 6		

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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
9000.00†	0.000	359.517	9000.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
9100.00†	0.000	359.517	9100.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
9200.00†	0.000	359.517	9200.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
9300.00†	0.000	359.517	9300.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
9350.00†	0.000	359.517	9350.00	0.00	0.00	0.00	782398.90	483723.50	32°19'38.692"N	103°33'10.477"W	0.00	0.000	0.00
9400.00†	6.366	359.517	9399.90	2.77	2.77	-0.02	782398.88	483726.27	32°19'38.719"N	103°33'10.477"W	2.77	359.517	12.73
9500.00†	19.099	359.517	9497.24	24.77	24.77	-0.21	782398.69	483748.27	32°19'38.937"N	103°33'10.478"W	24.77	359.517	12.73
9600.00†	31.831	359.517	9587.34	67.68	67.67	-0.57	782398.33	483791.17	32°19'39.362"N	103°33'10.478"W	67.68	359.517	12.73
9700.00†	44.563	359.517	9665.76	129.39	129.38	-1.09	782397.81	483852.88	32°19'39.972"N	103°33'10.479"W	129.39	359.517	12.73
9800.00†	57.296	359.517	9728.66	206.86	206.86	-1.75	782397.16	483930.35	32°19'40.739"N	103°33'10.480"W	206.86	359.517	12.73
9900.00†	70.028	359.517	9772.94	296.30	296.29	-2.50	782396.40	484019.78	32°19'41.624"N	103°33'10.481"W	296.30	359.517	12.73
10000.00†	82.761	359.517	9796.41	393.29	393.28	-3.32	782395.58	484116.77	32°19'42.584"N	103°33'10.482"W	393.29	359.517	12.73
10056.86	90.000	359.517	9800.00	450.00	449.98	-3.80	782395.10	484173.47	32°19'43.145"N	103°33'10.483"W	450.00	359.517	12.73
10100.00†	90.000	359.517	9800.00	493.14	493.12	-4.16	782394.74	484216.61	32°19'43.572"N	103°33'10.484"W	493.14	359.517	0.00
10200.00†	90.000	359.517	9800.00	593.14	593.12	-5.00	782393.90	484316.60	32°19'44.561"N	103°33'10.485"W	593.14	359.517	0.00
10300.00†	90.000	359.517	9800.00	693.14	693.12	-5.85	782393.05	484416.60	32°19'45.551"N	103°33'10.486"W	693.14	359.517	0.00
10400.00†	90.000	359.517	9800.00	793.14	793.11	-6.69	782392.21	484516.59	32°19'46.540"N	103°33'10.488"W	793.14	359.517	0.00
10500.00†	90.000	359.517	9800.00	893.14	893.11	-7.53	782391.37	484616.59	32°19'47.530"N	103°33'10.489"W	893.14	359.517	0.00
10600.00†	90.000	359.517	9800.00	993.14	993.11	-8.38	782390.52	484716.58	32°19'48.519"N	103°33'10.491"W	993.14	359.517	0.00
10700.00†	90.000	359.517	9800.00	1093.14	1093.10	-9.22	782389.68	484816.57	32°19'49.509"N	103°33'10.492"W	1093.14	359.517	0.00
10800.00†	90.000	359.517	9800.00	1193.14	1193.10	-10.06	782388.84	484916.57	32°19'50.498"N	103°33'10.493"W	1193.14	359.517	0.00
10900.00†	90.000	359.517	9800.00	1293.14	1293.10	-10.91	782387.99	485016.56	32°19'51.488"N	103°33'10.495"W	1293.14	359.517	0.00
11000.00†	90.000	359.517	9800.00	1393.14	1393.09	-11.75	782387.15	485116.56	32°19'52.477"N	103°33'10.496"W	1393.14	359.517	0.00
11100.00†	90.000	359.517	9800.00	1493.14	1493.09	-12.60	782386.30	485216.55	32°19'53.467"N	103°33'10.497"W	1493.14	359.517	0.00
11200.00†	90.000	359.517	9800.00	1593.14	1593.08	-13.44	782385.46	485316.54	32°19'54.456"N	103°33'10.499"W	1593.14	359.517	0.00
11300.00†	90.000	359.517	9800.00	1693.14	1693.08	-14.28	782384.62	485416.54	32°19'55.446"N	103°33'10.500"W	1693.14	359.517	0.00
11400.00†	90.000	359.517	9800.00	1793.14	1793.08	-15.13	782383.77	485516.53	32°19'56.435"N	103°33'10.501"W	1793.14	359.517	0.00
11500.00†	90.000	359.517	9800.00	1893.14	1893.07	-15.97	782382.93	485616.52	32°19'57.425"N	103°33'10.503"W	1893.14	359.517	0.00
11600.00†	90.000	359.517	9800.00	1993.14	1993.07	-16.81	782382.09	485716.52	32°19'58.414"N	103°33'10.504"W	1993.14	359.517	0.00
11700.00†	90.000	359.517	9800.00	2093.14	2093.07	-17.66	782381.24	485816.51	32°19'59.404"N	103°33'10.505"W	2093.14	359.517	0.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com No. 6		

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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
11800.00†	90.000	359.517	9800.00	2193.14	2193.06	-18.50	782380.40	485916.51	32°20'00.393"N	103°33'10.507"W	2193.14	359.517	0.00
11900.00†	90.000	359.517	9800.00	2293.14	2293.06	-19.34	782379.56	486016.50	32°20'01.383"N	103°33'10.508"W	2293.14	359.517	0.00
12000.00†	90.000	359.517	9800.00	2393.14	2393.06	-20.19	782378.71	486116.49	32°20'02.372"N	103°33'10.509"W	2393.14	359.517	0.00
12100.00†	90.000	359.517	9800.00	2493.14	2493.05	-21.03	782377.87	486216.49	32°20'03.362"N	103°33'10.511"W	2493.14	359.517	0.00
12200.00†	90.000	359.517	9800.00	2593.14	2593.05	-21.87	782377.03	486316.48	32°20'04.351"N	103°33'10.512"W	2593.14	359.517	0.00
12300.00†	90.000	359.517	9800.00	2693.14	2693.05	-22.72	782376.18	486416.47	32°20'05.341"N	103°33'10.513"W	2693.14	359.517	0.00
12400.00†	90.000	359.517	9800.00	2793.14	2793.04	-23.56	782375.34	486516.47	32°20'06.330"N	103°33'10.515"W	2793.14	359.517	0.00
12500.00†	90.000	359.517	9800.00	2893.14	2893.04	-24.41	782374.50	486616.46	32°20'07.320"N	103°33'10.516"W	2893.14	359.517	0.00
12600.00†	90.000	359.517	9800.00	2993.14	2993.04	-25.25	782373.65	486716.46	32°20'08.309"N	103°33'10.517"W	2993.14	359.517	0.00
12700.00†	90.000	359.517	9800.00	3093.14	3093.03	-26.09	782372.81	486816.45	32°20'09.299"N	103°33'10.519"W	3093.14	359.517	0.00
12800.00†	90.000	359.517	9800.00	3193.14	3193.03	-26.94	782371.96	486916.44	32°20'10.288"N	103°33'10.520"W	3193.14	359.517	0.00
12900.00†	90.000	359.517	9800.00	3293.14	3293.02	-27.78	782371.12	487016.44	32°20'11.278"N	103°33'10.521"W	3293.14	359.517	0.00
13000.00†	90.000	359.517	9800.00	3393.14	3393.02	-28.62	782370.28	487116.43	32°20'12.267"N	103°33'10.523"W	3393.14	359.517	0.00
13100.00†	90.000	359.517	9800.00	3493.14	3493.02	-29.47	782369.43	487216.43	32°20'13.257"N	103°33'10.524"W	3493.14	359.517	0.00
13200.00†	90.000	359.517	9800.00	3593.14	3593.01	-30.31	782368.59	487316.42	32°20'14.246"N	103°33'10.525"W	3593.14	359.517	0.00
13300.00†	90.000	359.517	9800.00	3693.14	3693.01	-31.15	782367.75	487416.41	32°20'15.236"N	103°33'10.527"W	3693.14	359.517	0.00
13400.00†	90.000	359.517	9800.00	3793.14	3793.01	-32.00	782366.90	487516.41	32°20'16.225"N	103°33'10.528"W	3793.14	359.517	0.00
13500.00†	90.000	359.517	9800.00	3893.14	3893.00	-32.84	782366.06	487616.40	32°20'17.215"N	103°33'10.529"W	3893.14	359.517	0.00
13600.00†	90.000	359.517	9800.00	3993.14	3993.00	-33.68	782365.22	487716.39	32°20'18.204"N	103°33'10.531"W	3993.14	359.517	0.00
13700.00†	90.000	359.517	9800.00	4093.14	4093.00	-34.53	782364.37	487816.39	32°20'19.194"N	103°33'10.532"W	4093.14	359.517	0.00
13800.00†	90.000	359.517	9800.00	4193.14	4192.99	-35.37	782363.53	487916.38	32°20'20.183"N	103°33'10.533"W	4193.14	359.517	0.00
13900.00†	90.000	359.517	9800.00	4293.14	4292.99	-36.21	782362.69	488016.38	32°20'21.172"N	103°33'10.535"W	4293.14	359.517	0.00
14000.00†	90.000	359.517	9800.00	4393.14	4392.99	-37.06	782361.84	488116.37	32°20'22.162"N	103°33'10.536"W	4393.14	359.517	0.00
14100.00†	90.000	359.517	9800.00	4493.14	4492.98	-37.90	782361.00	488216.36	32°20'23.151"N	103°33'10.537"W	4493.14	359.517	0.00
14200.00†	90.000	359.517	9800.00	4593.14	4592.98	-38.75	782360.16	488316.36	32°20'24.141"N	103°33'10.539"W	4593.14	359.517	0.00
14218.44	90.000	359.517	9800.00	4611.59	4611.42	-38.90	782360.00	488334.80	32°20'24.323"N	103°33'10.539"W	4611.59	359.517	0.00



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 6
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 6 (PWB)
Facility	Blanco 3 State Com No. 6		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Blanco 3 State Com No. 6 (Rev-0)	14218.44	9800.00	4611.42	-38.90	782360.00	488334.80	32°20'24.323"N	103°33'10.539"W	point