

30025-40624

HOBBS OCD

JUN 18 2012

SR & A

9-5/8"

RECEIVED
Flowline

Fill Line

2"

5000# BOP

Pipe Rams

Blind Rams

Drilling Spool

Kill Line

2"

2-9/16"

4"

Choke Manifold

4"

Wellhead Assembly

13 5/8" 5000# psi x 9 5/8" 5000# psi
Wellhead Assembly

13 5/8" 5000# psi

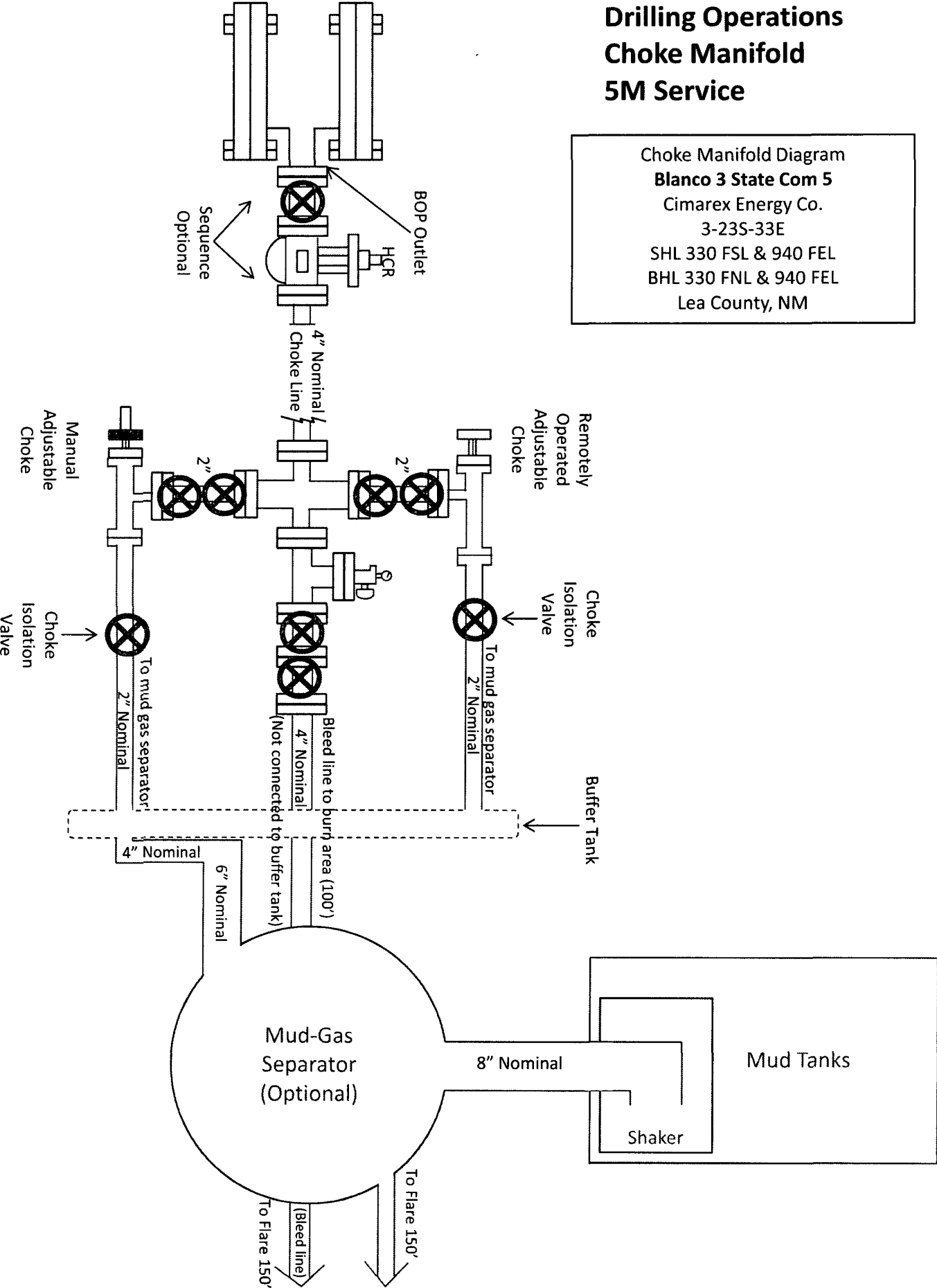
Slip-on Casing Head

5000# BOP
Blanco 3 State Com 5
Cimarex Energy Co.
3-23S-33E
SHL 330 FSL & 940 FEL
BHL 330 FNL & 940 FEL
Lea County, NM

JUN 18 2012

Drilling Operations
Choke Manifold
5M Service

Choke Manifold Diagram
Blanco 3 State Com 5
Cimarex Energy Co.
3-23S-33E
SHL 330 FSL & 940 FEL
BHL 330 FNL & 940 FEL
Lea County, NM





Cimarex Energy Co.

Location: Lea County, NM
Field: (Blanco) Sec 3, T23S, R33E
Facility: Blanco 3 State Com No 5

Slot: Slot #1
Well: No 5
Wellbore: No 5 (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	14218.45	90.000	359.517	9800.00	4611.42	-38.90	0.00	4611.59

Location Information

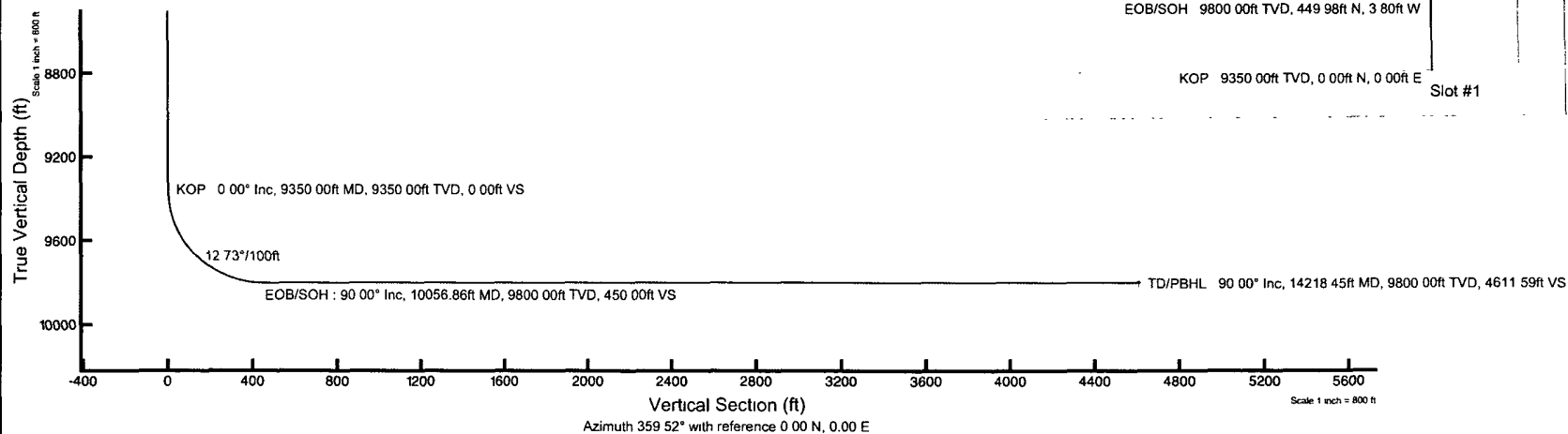
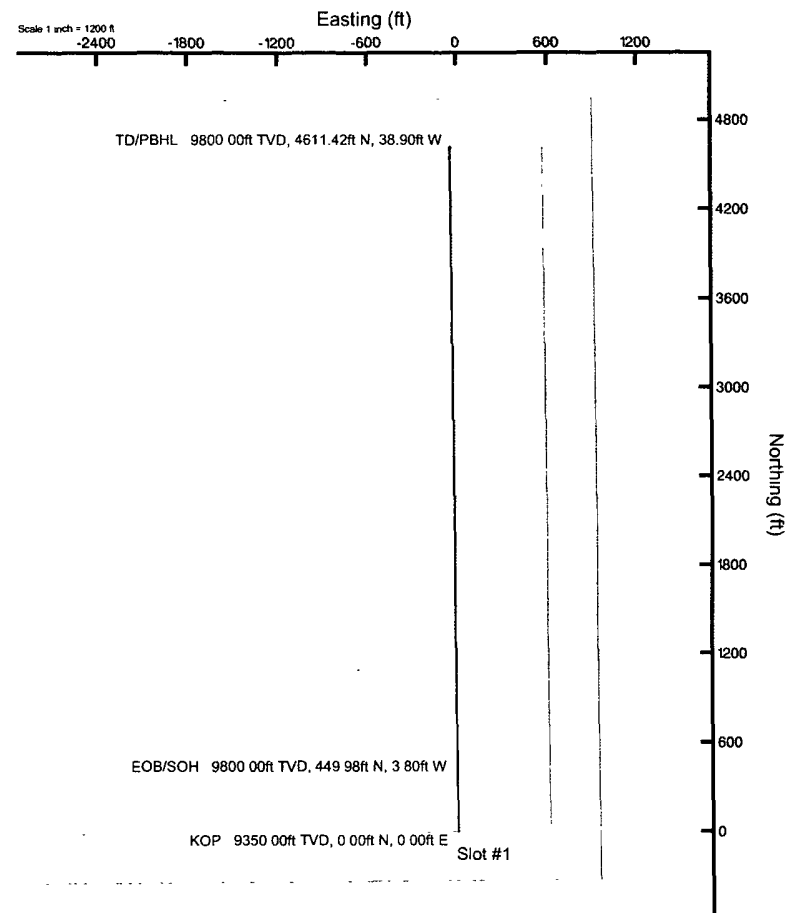
Facility Name		Gnd East (US ft)		Gnd North (US ft)		Latitude	Longitude
Blanco 3 State Com No. 5		781839.000		483719.700		32°19'38.695"N	103°33'17.003"W
Slot	Local N (ft)	Local E (ft)	Gnd East (US ft)	Gnd North (US ft)	Latitude	Longitude	
Slot #1	0.00	0.00	781839.000	483719.700	32°19'38.695"N	103°33'17.003"W	
Rig on Slot #1 (RT) to Mud line (At Slot: Slot #1)						0ft	
Mean Sea Level to Mud line (At Slot: Slot #1)						-3563ft	
Rig on Slot #1 (RT) to Mean Sea Level						3563ft	

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 5 (Rev-0)	14218.45	9800.00	4611.42	-38.90	781800.10	488331.00	32°20'24.326"N	103°33'17.065"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
14218.45	90.000	359.517	9800.00	4611.42	-38.90	781800.10	488331.00	32°20'24.326"N	103°33'17.065"W



RECEIVED

JUN 13 2012

HOBSCD

Rev-A.0



Planned Wellpath Report

Rev-A.0

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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	0.999975	Report Generated	6/6/2012 at 9:10:47 AM
Convergence at slot	n/a	Database/Source file	WA_Midland/No. 5_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	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W
Facility Reference Pt			781839.00	483719.70	32°19'38.695"N	103°33'17.003"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	3563.00ft
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

Rev-A.0

Page 2 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
100.00†	0.000	359.517	100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
200.00†	0.000	359.517	200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
300.00†	0.000	359.517	300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
400.00†	0.000	359.517	400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
500.00†	0.000	359.517	500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
600.00†	0.000	359.517	600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
700.00†	0.000	359.517	700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
800.00†	0.000	359.517	800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
900.00†	0.000	359.517	900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1000.00†	0.000	359.517	1000.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1100.00†	0.000	359.517	1100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1200.00†	0.000	359.517	1200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1300.00†	0.000	359.517	1300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1400.00†	0.000	359.517	1400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1500.00†	0.000	359.517	1500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1600.00†	0.000	359.517	1600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1700.00†	0.000	359.517	1700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1800.00†	0.000	359.517	1800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
1900.00†	0.000	359.517	1900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2000.00†	0.000	359.517	2000.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2100.00†	0.000	359.517	2100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2200.00†	0.000	359.517	2200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2300.00†	0.000	359.517	2300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2400.00†	0.000	359.517	2400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2500.00†	0.000	359.517	2500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2600.00†	0.000	359.517	2600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2700.00†	0.000	359.517	2700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2800.00†	0.000	359.517	2800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
2900.00†	0.000	359.517	2900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00



Planned Wellpath Report

Rev-A.0

Page 3 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3100.00†	0.000	359.517	3100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3200.00†	0.000	359.517	3200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3300.00†	0.000	359.517	3300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3400.00†	0.000	359.517	3400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3500.00†	0.000	359.517	3500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3600.00†	0.000	359.517	3600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3700.00†	0.000	359.517	3700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3800.00†	0.000	359.517	3800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
3900.00†	0.000	359.517	3900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4000.00†	0.000	359.517	4000.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4100.00†	0.000	359.517	4100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4200.00†	0.000	359.517	4200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4300.00†	0.000	359.517	4300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4400.00†	0.000	359.517	4400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4500.00†	0.000	359.517	4500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4600.00†	0.000	359.517	4600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4700.00†	0.000	359.517	4700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4800.00†	0.000	359.517	4800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
4900.00†	0.000	359.517	4900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5000.00†	0.000	359.517	5000.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5100.00†	0.000	359.517	5100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5200.00†	0.000	359.517	5200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5300.00†	0.000	359.517	5300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5400.00†	0.000	359.517	5400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5500.00†	0.000	359.517	5500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5600.00†	0.000	359.517	5600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5700.00†	0.000	359.517	5700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5800.00†	0.000	359.517	5800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
5900.00†	0.000	359.517	5900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00



Planned Wellpath Report

Rev-A.0

Page 4 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6100.00†	0.000	359.517	6100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6200.00†	0.000	359.517	6200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6300.00†	0.000	359.517	6300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6400.00†	0.000	359.517	6400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6500.00†	0.000	359.517	6500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6600.00†	0.000	359.517	6600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6700.00†	0.000	359.517	6700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6800.00†	0.000	359.517	6800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
6900.00†	0.000	359.517	6900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7000.00†	0.000	359.517	7000.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7100.00†	0.000	359.517	7100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7200.00†	0.000	359.517	7200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7300.00†	0.000	359.517	7300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7400.00†	0.000	359.517	7400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7500.00†	0.000	359.517	7500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7600.00†	0.000	359.517	7600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7700.00†	0.000	359.517	7700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7800.00†	0.000	359.517	7800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
7900.00†	0.000	359.517	7900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8000.00†	0.000	359.517	8000.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8100.00†	0.000	359.517	8100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8200.00†	0.000	359.517	8200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8300.00†	0.000	359.517	8300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8400.00†	0.000	359.517	8400.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8500.00†	0.000	359.517	8500.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8600.00†	0.000	359.517	8600.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8700.00†	0.000	359.517	8700.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8800.00†	0.000	359.517	8800.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
8900.00†	0.000	359.517	8900.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00



Planned Wellpath Report

Rev-A.0

Page 5 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
9100.00†	0.000	359.517	9100.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
9200.00†	0.000	359.517	9200.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
9300.00†	0.000	359.517	9300.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
9350.00	0.000	359.517	9350.00	0.00	0.00	0.00	781839.00	483719.70	32°19'38.695"N	103°33'17.003"W	0.00	0.000	0.00
9400.00†	6.366	359.517	9399.90	2.77	2.77	-0.02	781838.98	483722.47	32°19'38.722"N	103°33'17.003"W	2.77	359.517	12.73
9500.00†	19.099	359.517	9497.24	24.77	24.77	-0.21	781838.79	483744.47	32°19'38.940"N	103°33'17.003"W	24.77	359.517	12.73
9600.00†	31.831	359.517	9587.34	67.68	67.67	-0.57	781838.43	483787.37	32°19'39.364"N	103°33'17.003"W	67.68	359.517	12.73
9700.00†	44.563	359.517	9665.76	129.39	129.38	-1.09	781837.91	483849.08	32°19'39.975"N	103°33'17.004"W	129.39	359.517	12.73
9800.00†	57.296	359.517	9728.66	206.86	206.86	-1.75	781837.26	483926.55	32°19'40.742"N	103°33'17.005"W	206.86	359.517	12.73
9900.00†	70.028	359.517	9772.94	296.30	296.29	-2.50	781836.50	484015.98	32°19'41.627"N	103°33'17.007"W	296.30	359.517	12.73
10000.00†	82.761	359.517	9796.41	393.29	393.28	-3.32	781835.68	484112.97	32°19'42.586"N	103°33'17.008"W	393.29	359.517	12.73
10056.86	90.000	359.517	9800.00	450.00	449.98	-3.80	781835.20	484169.67	32°19'43.147"N	103°33'17.009"W	450.00	359.517	12.73
10100.00†	90.000	359.517	9800.00	493.14	493.12	-4.16	781834.84	484212.81	32°19'43.574"N	103°33'17.009"W	493.14	359.517	0.00
10200.00†	90.000	359.517	9800.00	593.14	593.12	-5.00	781834.00	484312.80	32°19'44.564"N	103°33'17.011"W	593.14	359.517	0.00
10300.00†	90.000	359.517	9800.00	693.14	693.12	-5.85	781833.15	484412.80	32°19'45.553"N	103°33'17.012"W	693.14	359.517	0.00
10400.00†	90.000	359.517	9800.00	793.14	793.11	-6.69	781832.31	484512.79	32°19'46.543"N	103°33'17.013"W	793.14	359.517	0.00
10500.00†	90.000	359.517	9800.00	893.14	893.11	-7.53	781831.47	484612.79	32°19'47.532"N	103°33'17.015"W	893.14	359.517	0.00
10600.00†	90.000	359.517	9800.00	993.14	993.11	-8.38	781830.62	484712.78	32°19'48.522"N	103°33'17.016"W	993.14	359.517	0.00
10700.00†	90.000	359.517	9800.00	1093.14	1093.10	-9.22	781829.78	484812.77	32°19'49.511"N	103°33'17.017"W	1093.14	359.517	0.00
10800.00†	90.000	359.517	9800.00	1193.14	1193.10	-10.06	781828.94	484912.77	32°19'50.501"N	103°33'17.019"W	1193.14	359.517	0.00
10900.00†	90.000	359.517	9800.00	1293.14	1293.10	-10.91	781828.09	485012.76	32°19'51.490"N	103°33'17.020"W	1293.14	359.517	0.00
11000.00†	90.000	359.517	9800.00	1393.14	1393.09	-11.75	781827.25	485112.75	32°19'52.480"N	103°33'17.021"W	1393.14	359.517	0.00
11100.00†	90.000	359.517	9800.00	1493.14	1493.09	-12.60	781826.40	485212.75	32°19'53.469"N	103°33'17.023"W	1493.14	359.517	0.00
11200.00†	90.000	359.517	9800.00	1593.14	1593.08	-13.44	781825.56	485312.74	32°19'54.459"N	103°33'17.024"W	1593.14	359.517	0.00
11300.00†	90.000	359.517	9800.00	1693.14	1693.08	-14.28	781824.72	485412.74	32°19'55.448"N	103°33'17.026"W	1693.14	359.517	0.00
11400.00†	90.000	359.517	9800.00	1793.14	1793.08	-15.13	781823.87	485512.73	32°19'56.438"N	103°33'17.027"W	1793.14	359.517	0.00
11500.00†	90.000	359.517	9800.00	1893.14	1893.07	-15.97	781823.03	485612.72	32°19'57.427"N	103°33'17.028"W	1893.14	359.517	0.00
11600.00†	90.000	359.517	9800.00	1993.14	1993.07	-16.81	781822.19	485712.72	32°19'58.417"N	103°33'17.030"W	1993.14	359.517	0.00
11700.00†	90.000	359.517	9800.00	2093.14	2093.07	-17.66	781821.34	485812.71	32°19'59.406"N	103°33'17.031"W	2093.14	359.517	0.00



Planned Wellpath Report

Rev-A.0

Page 6 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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	781820.50	485912.71	32°20'00.396"N	103°33'17.032"W	2193.14	359.517	0.00
11900.00†	90.000	359.517	9800.00	2293.14	2293.06	-19.34	781819.66	486012.70	32°20'01.385"N	103°33'17.034"W	2293.14	359.517	0.00
12000.00†	90.000	359.517	9800.00	2393.14	2393.06	-20.19	781818.81	486112.69	32°20'02.375"N	103°33'17.035"W	2393.14	359.517	0.00
12100.00†	90.000	359.517	9800.00	2493.14	2493.05	-21.03	781817.97	486212.69	32°20'03.364"N	103°33'17.036"W	2493.14	359.517	0.00
12200.00†	90.000	359.517	9800.00	2593.14	2593.05	-21.87	781817.13	486312.68	32°20'04.354"N	103°33'17.038"W	2593.14	359.517	0.00
12300.00†	90.000	359.517	9800.00	2693.14	2693.05	-22.72	781816.28	486412.67	32°20'05.343"N	103°33'17.039"W	2693.14	359.517	0.00
12400.00†	90.000	359.517	9800.00	2793.14	2793.04	-23.56	781815.44	486512.67	32°20'06.333"N	103°33'17.041"W	2793.14	359.517	0.00
12500.00†	90.000	359.517	9800.00	2893.14	2893.04	-24.41	781814.60	486612.66	32°20'07.322"N	103°33'17.042"W	2893.14	359.517	0.00
12600.00†	90.000	359.517	9800.00	2993.14	2993.04	-25.25	781813.75	486712.66	32°20'08.312"N	103°33'17.043"W	2993.14	359.517	0.00
12700.00†	90.000	359.517	9800.00	3093.14	3093.03	-26.09	781812.91	486812.65	32°20'09.301"N	103°33'17.045"W	3093.14	359.517	0.00
12800.00†	90.000	359.517	9800.00	3193.14	3193.03	-26.94	781812.06	486912.64	32°20'10.291"N	103°33'17.046"W	3193.14	359.517	0.00
12900.00†	90.000	359.517	9800.00	3293.14	3293.02	-27.78	781811.22	487012.64	32°20'11.280"N	103°33'17.047"W	3293.14	359.517	0.00
13000.00†	90.000	359.517	9800.00	3393.14	3393.02	-28.62	781810.38	487112.63	32°20'12.270"N	103°33'17.049"W	3393.14	359.517	0.00
13100.00†	90.000	359.517	9800.00	3493.14	3493.02	-29.47	781809.53	487212.62	32°20'13.259"N	103°33'17.050"W	3493.14	359.517	0.00
13200.00†	90.000	359.517	9800.00	3593.14	3593.01	-30.31	781808.69	487312.62	32°20'14.249"N	103°33'17.051"W	3593.14	359.517	0.00
13300.00†	90.000	359.517	9800.00	3693.14	3693.01	-31.15	781807.85	487412.61	32°20'15.238"N	103°33'17.053"W	3693.14	359.517	0.00
13400.00†	90.000	359.517	9800.00	3793.14	3793.01	-32.00	781807.00	487512.61	32°20'16.228"N	103°33'17.054"W	3793.14	359.517	0.00
13500.00†	90.000	359.517	9800.00	3893.14	3893.00	-32.84	781806.16	487612.60	32°20'17.217"N	103°33'17.055"W	3893.14	359.517	0.00
13600.00†	90.000	359.517	9800.00	3993.14	3993.00	-33.68	781805.32	487712.59	32°20'18.207"N	103°33'17.057"W	3993.14	359.517	0.00
13700.00†	90.000	359.517	9800.00	4093.14	4093.00	-34.53	781804.47	487812.59	32°20'19.196"N	103°33'17.058"W	4093.14	359.517	0.00
13800.00†	90.000	359.517	9800.00	4193.14	4192.99	-35.37	781803.63	487912.58	32°20'20.186"N	103°33'17.060"W	4193.14	359.517	0.00
13900.00†	90.000	359.517	9800.00	4293.14	4292.99	-36.21	781802.79	488012.57	32°20'21.175"N	103°33'17.061"W	4293.14	359.517	0.00
14000.00†	90.000	359.517	9800.00	4393.14	4392.99	-37.06	781801.94	488112.57	32°20'22.165"N	103°33'17.062"W	4393.14	359.517	0.00
14100.00†	90.000	359.517	9800.00	4493.14	4492.98	-37.90	781801.10	488212.56	32°20'23.154"N	103°33'17.064"W	4493.14	359.517	0.00
14200.00†	90.000	359.517	9800.00	4593.14	4592.98	-38.75	781800.26	488312.56	32°20'24.144"N	103°33'17.065"W	4593.14	359.517	0.00
14218.45	90.000	359.517	9800.00 ¹	4611.59	4611.42	-38.90	781800.10	488331.00	32°20'24.326"N	103°33'17.065"W	4611.59	359.517	0.00



Planned Wellpath Report

Rev-A.0

Page 7 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	Slot #1
Area	Lea County, NM	Well	No. 5
Field	(Blanco) Sec 3, T23S, R33E	Wellbore	No. 5 (PWB)
Facility	Blanco 3 State Com No. 5		

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. 5 (Rev-0)	14218.45	9800.00	4611.42	-38.90	781800.10	488331.00	32°20'24.326"N	103°33'17.065"W	point