

HOBBS OGD

DEC 12 2011

DISTRICT I
1625 H. French Dr., Hobbs, NM 88240
Phone (505) 593-8181 Fax (505) 533-9723

DISTRICT II
1371 W. Grand Avenue, Aztec, NM 88410
Phone (505) 746-1733 Fax (505) 745-9723

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 231-8178 Fax (505) 231-8170

DISTRICT IV
1270 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3160 Fax (505) 476-3162

State of New Mexico
Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

RECEIVED
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-025-40367		Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code 309502	Property Name CORIANDER "AOC" STATE		Well Number 6
OGRIID No. 215099	Operator Name CIMAREX ENERGY CO.		Elevation 3757'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 1	1	23 S	32 E		330	NORTH	990	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	23 S	32 E		330	SOUTH	990	EAST	LEA

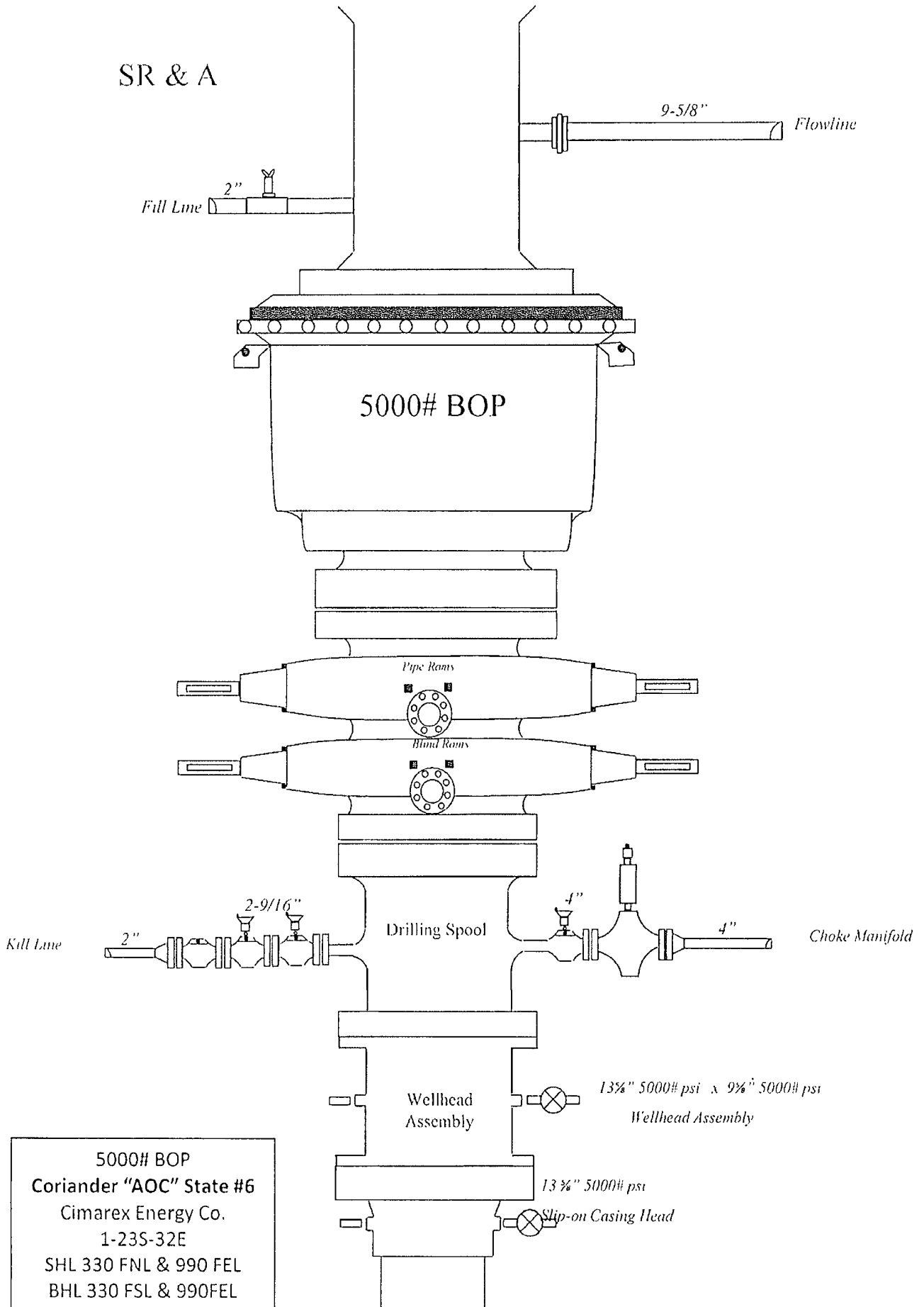
Dedicated Acres 159.95	Joint or Infill	Consolidation Code	Order No.
---------------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 4	LOT 3	LOT 2	LOT 1	150' STL	990'	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Terri Stathem</i> 12/13/11 Signature Date</p> <p>Terri Stathem Printed Name tstathem@cimarex.com Email Address</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>GARY L. JONES Date Surveyed Signature & Seal of Professional Surveyor W. C. 10000 25261</p> <p>Certificate No. Gary L. Jones 7977 BASIN SURVEYS 25261</p>
<p>SURFACE LOCATION</p> <p>Lot - N 32°20'24.66" Long - W 103°37'22.64" NMSPCCE - N 488217.9 E 760731.5 (NAD-83)</p>				4620.5'	330'	
<p>PROPOSED BOTTOM HOLE LOCATION</p> <p>Lot - N 32°19'38.95" Long - W 103°37'22.61" NMSPCCE - N 483598.5 E 760764.7 (NAD-83)</p>				330'	990'	
				330'	990'	

DEC 13 2011

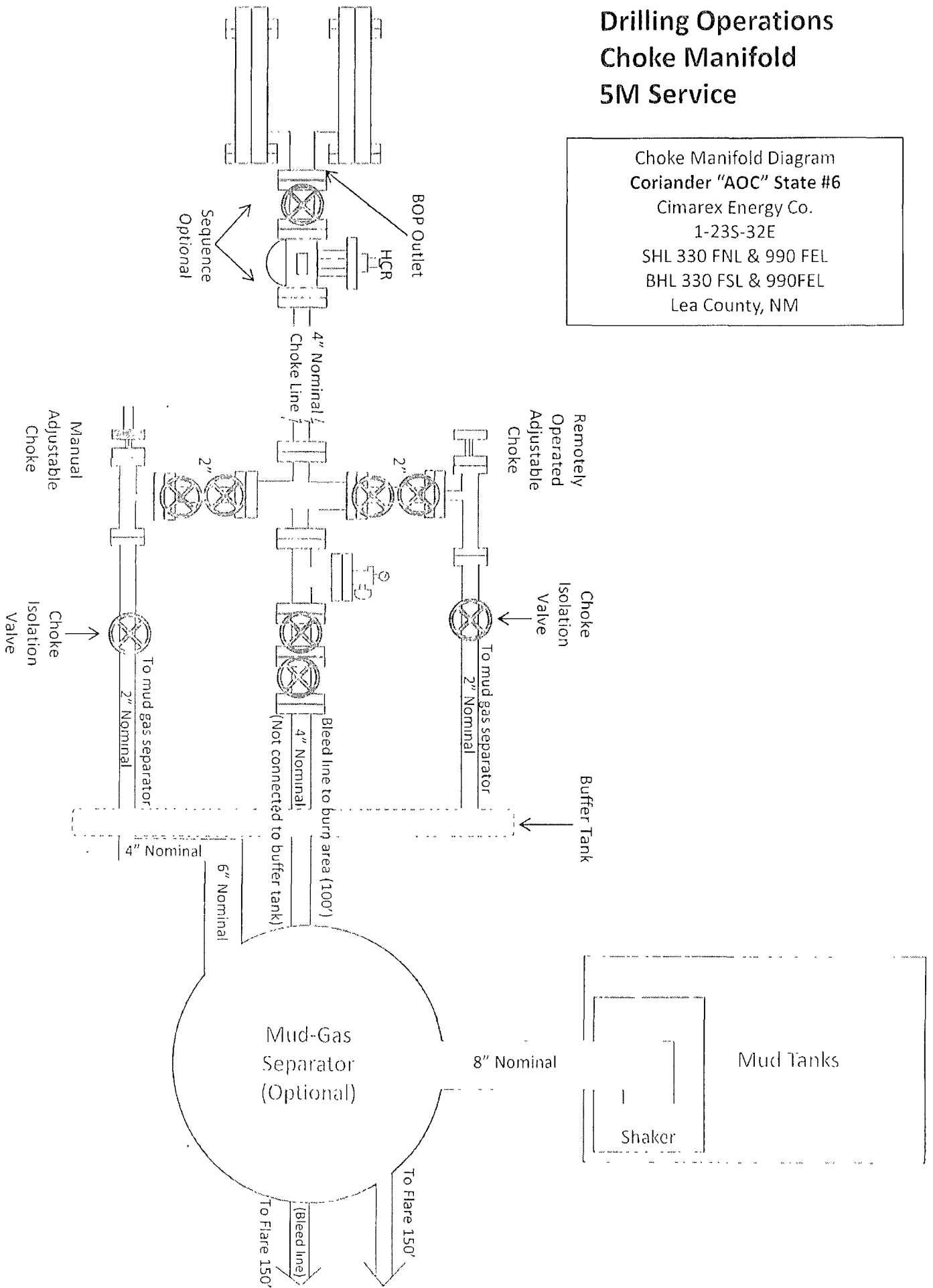
SR & A



5000# BOP
Coriander "AOC" State #6
Cimarex Energy Co.
1-23S-32E
SHL 330 FNL & 990 FEL
BHL 330 FSL & 990FEL
Lea County, NM

Drilling Operations Choke Manifold 5M Service

Choke Manifold Diagram
 Coriander "AOC" State #6
 Cimarex Energy Co.
 1-23S-32E
 SHL 330 FNL & 990 FEL
 BHL 330 FSL & 990FEL
 Lea County, NM





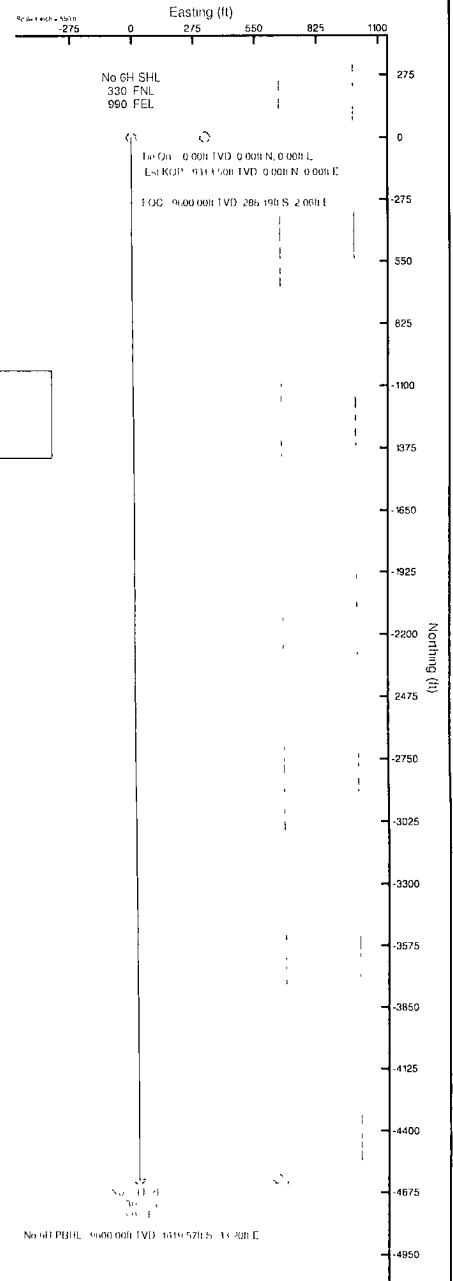
Cimarex Energy Co.

Location: Lovi County, NM
 Field: (Corridor) Sac 1 123S, R32E
 Facility: Corridor AOC State #611

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

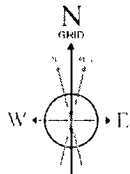


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	179.588	0.00	0.00	0.00	0.00	0.00
Est KOP	9313.50	0.000	179.588	9313.50	0.00	0.00	0.00	0.00
EOC	9763.53	90.000	179.588	9600.00	286.49	2.06	20.00	286.50
No 6H PWB	11096.73	90.000	179.588	9600.00	-4619.57	33.20	0.00	1619.69

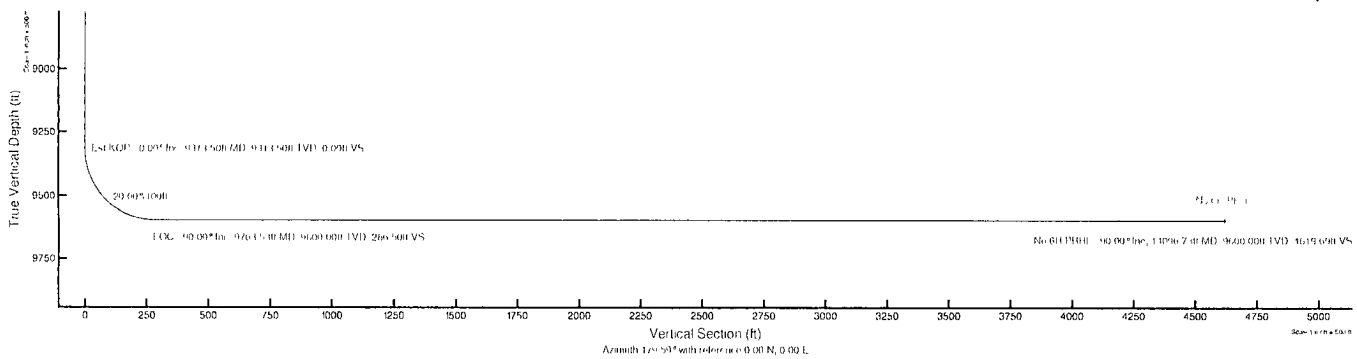


Plot reference wellbore: No 6H PWB
 True vertical depth is referenced to Top of No 6H SHL (RT)
 Measured depth is referenced to Top of No 6H SHL (RT)
 Height to No 6H SHL (RT) to Mean Sea Level: 2751.00 ft
 Mean Sea Level to Mean (At Slot) to No 6H SHL: 7.50 ft
 Coordinates are in feet and rounded to the side

Grid System: NAD83 / IGM New Mexico SP, Eastern Zone (2011) US foot
 North Reference: Grid North
 Scale: True distance
 Dip: All dip angles are in feet
 Generated by: geology on 12/1/2011



BGGM (1945.0 to 2012.0) Dip: 60.26° Field: -46650.3 nT
 Magnetic North is 7.60 degrees East of True North (at 12/1/2011)
 Grid North is 0.22 degrees East of True North
 To correct azimuth from True to Grid subtract 0.38 degrees
 To correct azimuth from Magnetic to Grid add 7.22 degrees
 For example if the Magnetic North Azimuth = 90 degs then the Grid North Azimuth = 90 + 7.22 = 97.22





Planned Wellpath Report

Prelim_1
Page 1 of 5



WELLBORE IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.6H SHL
Area	Lea County, NM	Well	No.6H
Field	(Coriander)Sec 1, T23S, R32E	Wellbore	No.6H PWB
Facility	Coriander AOC State #6H		

REPORT 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	0.999964	Report Generated	12/1/2011 at 3:21:58 PM
Convergence at slot	0.38° East	Database/Source file	WA Midland/No.6H_PWB.xml

COORDINATES

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W
Facility Reference Pt			760731.50	488217.90	32°20'24.656"N	103°37'22.642"W
Field Reference Pt			761061.30	488221.80	32°20'24.673"N	103°37'18.797"W

VERTICAL DATUM

Calculation method	Minimum curvature	Rig on No.6H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.6H SHL (RT) to Mean Sea Level	3757.00ft
Vertical Reference Pt	Rig on No.6H SHL (RT)	Rig on No.6H SHL (RT) to Mud Line at Slot (No.6H SHL)	0.00ft
MD Reference Pt	Rig on No.6H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.59°



Planned Wellpath Report

Prelim_1
Page 2 of 5



Operator	Cimarex Energy Co.	Slot	No.6H SHL
Area	Lea County, NM	Well	No.6H
Field	(Coriander)Sec 1, T23S, R32E	Wellbore	No.6H PWB
Facility	Coriander AOC State #6H		

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	179 588	0 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	Tie On
100 00	0 000	179 588	100 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
200 00	0 000	179 588	200 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
300 00	0 000	179 588	300 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
400 00	0 000	179 588	400 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
500 00	0 000	179 588	500 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
600 00	0 000	179 588	600 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
700 00	0 000	179 588	700 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
800 00	0 000	179 588	800 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
900 00	0 000	179 588	900 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1000 00	0 000	179 588	1000 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1100 00	0 000	179 588	1100 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1200 00	0 000	179 588	1200 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1220 00	0 000	179 588	1220 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	Rustler
1300 00	0 000	179 588	1300 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1400 00	0 000	179 588	1400 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1500 00	0 000	179 588	1500 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1600 00	0 000	179 588	1600 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1700 00	0 000	179 588	1700 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1800 00	0 000	179 588	1800 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
1900 00	0 000	179 588	1900 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2000 00	0 000	179 588	2000 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2100 00	0 000	179 588	2100 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2200 00	0 000	179 588	2200 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2300 00	0 000	179 588	2300 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2400 00	0 000	179 588	2400 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2500 00	0 000	179 588	2500 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2600 00	0 000	179 588	2600 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2700 00	0 000	179 588	2700 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2800 00	0 000	179 588	2800 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
2900 00	0 000	179 588	2900 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3000 00	0 000	179 588	3000 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3100 00	0 000	179 588	3100 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3200 00	0 000	179 588	3200 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3300 00	0 000	179 588	3300 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3400 00	0 000	179 588	3400 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3500 00	0 000	179 588	3500 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3600 00	0 000	179 588	3600 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3700 00	0 000	179 588	3700 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3800 00	0 000	179 588	3800 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
3900 00	0 000	179 588	3900 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
4000 00	0 000	179 588	4000 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
4100 00	0 000	179 588	4100 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
4200 00	0 000	179 588	4200 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	
4300 00	0 000	179 588	4300 00	0 00	0 00	0 00	760731 50	488217 90	32°20'24.656"N	103°37'22.642"W	0 00	



Planned Wellpath Report

Prelim_1
Page 3 of 5



Operator	Cimarex Energy Co.	Slot	No.6H SHL
Area	Lea County, NM	Well	No.6H
Field	(Coriander)Sec 1, T23S, R32E	Wellbore	No.6H PWB
Facility	Coriander AOC State #6H		

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	179.588	4400.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
4500.00	0.000	179.588	4500.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
4600.00	0.000	179.588	4600.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
4700.00	0.000	179.588	4700.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
4800.00	0.000	179.588	4800.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
4900.00	0.000	179.588	4900.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5000.00	0.000	179.588	5000.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	Delaware
5100.00	0.000	179.588	5100.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5200.00	0.000	179.588	5200.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5300.00	0.000	179.588	5300.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5400.00	0.000	179.588	5400.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5500.00	0.000	179.588	5500.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5600.00	0.000	179.588	5600.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5700.00	0.000	179.588	5700.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5800.00	0.000	179.588	5800.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
5900.00	0.000	179.588	5900.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6000.00	0.000	179.588	6000.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6100.00	0.000	179.588	6100.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6200.00	0.000	179.588	6200.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6300.00	0.000	179.588	6300.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6400.00	0.000	179.588	6400.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6500.00	0.000	179.588	6500.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6600.00	0.000	179.588	6600.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6700.00	0.000	179.588	6700.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6800.00	0.000	179.588	6800.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
6900.00	0.000	179.588	6900.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7000.00	0.000	179.588	7000.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7100.00	0.000	179.588	7100.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7200.00	0.000	179.588	7200.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7300.00	0.000	179.588	7300.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7400.00	0.000	179.588	7400.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7500.00	0.000	179.588	7500.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7600.00	0.000	179.588	7600.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7700.00	0.000	179.588	7700.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7800.00	0.000	179.588	7800.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
7900.00	0.000	179.588	7900.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8000.00	0.000	179.588	8000.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8100.00	0.000	179.588	8100.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8200.00	0.000	179.588	8200.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8300.00	0.000	179.588	8300.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8400.00	0.000	179.588	8400.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8500.00	0.000	179.588	8500.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	Basal Brushy Canyon
8600.00	0.000	179.588	8600.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	Bone Spring
8700.00	0.000	179.588	8700.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
8800.00	0.000	179.588	8800.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	



Planned Wellpath Report

Prelim_1
Page 4 of 5



OPERATOR IDENTIFICATION				WELL IDENTIFICATION			
Operator	Cimarex Energy Co.			Slot	No.6H SHL		
Area	Lea County, NM			Well	No.6H		
Field	(Coriander)Sec 1, T23S, R32E			Wellbore	No.6H PWB		
Facility	Coriander AOC State #6H						

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
8900.00	0.000	179.588	8900.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
9000.00	0.000	179.588	9000.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
9100.00	0.000	179.588	9100.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
9200.00	0.000	179.588	9200.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
9250.00	0.000	179.588	9250.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	Upper Bone Spring Shale
9300.00	0.000	179.588	9300.00	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	
9313.50	0.000	179.588	9313.50	0.00	0.00	0.00	760731.50	488217.90	32°20'24.656"N	103°37'22.642"W	0.00	Est KOP
9400.00	17.299	179.588	9398.69	12.96	-12.96	0.09	760731.59	488204.94	32°20'24.528"N	103°37'22.641"W	20.00	
9500.00	37.297	179.588	9487.10	58.59	-58.59	0.42	760731.92	488159.32	32°20'24.077"N	103°37'22.641"W	20.00	
9600.00	57.296	179.588	9554.58	131.70	-131.70	0.95	760732.45	488086.20	32°20'23.353"N	103°37'22.641"W	20.00	
9700.00	77.294	179.588	9592.98	223.49	-223.48	1.61	760733.11	487994.43	32°20'22.445"N	103°37'22.640"W	20.00	
9763.53	90.000	179.588	9600.00	286.50	-286.49	2.06	760733.56	487931.42	32°20'21.821"N	103°37'22.640"W	20.00	EOC
9800.00	90.000	179.588	9600.00	322.97	-322.96	2.32	760733.82	487894.95	32°20'21.461"N	103°37'22.639"W	0.00	
9900.00	90.000	179.588	9600.00	422.97	-422.96	3.04	760734.54	487794.96	32°20'20.471"N	103°37'22.639"W	0.00	
10000.00	90.000	179.588	9600.00	522.97	-522.95	3.76	760735.26	487694.97	32°20'19.482"N	103°37'22.638"W	0.00	
10100.00	90.000	179.588	9600.00	622.97	-622.95	4.48	760735.98	487594.97	32°20'18.492"N	103°37'22.638"W	0.00	
10200.00	90.000	179.588	9600.00	722.97	-722.95	5.20	760736.70	487494.98	32°20'17.503"N	103°37'22.637"W	0.00	
10300.00	90.000	179.588	9600.00	822.97	-822.95	5.91	760737.41	487394.99	32°20'16.513"N	103°37'22.636"W	0.00	
10400.00	90.000	179.588	9600.00	922.97	-922.94	6.63	760738.13	487294.99	32°20'15.524"N	103°37'22.636"W	0.00	
10500.00	90.000	179.588	9600.00	1022.97	-1022.94	7.35	760738.85	487195.00	32°20'14.534"N	103°37'22.635"W	0.00	
10600.00	90.000	179.588	9600.00	1122.97	-1122.94	8.07	760739.57	487095.00	32°20'13.545"N	103°37'22.634"W	0.00	
10700.00	90.000	179.588	9600.00	1222.97	-1222.94	8.79	760740.29	486995.01	32°20'12.555"N	103°37'22.634"W	0.00	
10800.00	90.000	179.588	9600.00	1322.97	-1322.93	9.51	760741.01	486895.02	32°20'11.566"N	103°37'22.633"W	0.00	
10900.00	90.000	179.588	9600.00	1422.97	-1422.93	10.23	760741.73	486795.02	32°20'10.576"N	103°37'22.632"W	0.00	
11000.00	90.000	179.588	9600.00	1522.97	-1522.93	10.95	760742.44	486695.03	32°20'09.587"N	103°37'22.632"W	0.00	
11100.00	90.000	179.588	9600.00	1622.97	-1622.92	11.66	760743.16	486595.04	32°20'08.597"N	103°37'22.631"W	0.00	
11200.00	90.000	179.588	9600.00	1722.97	-1722.92	12.38	760743.88	486495.04	32°20'07.608"N	103°37'22.630"W	0.00	
11300.00	90.000	179.588	9600.00	1822.97	-1822.92	13.10	760744.60	486395.05	32°20'06.618"N	103°37'22.630"W	0.00	
11400.00	90.000	179.588	9600.00	1922.97	-1922.92	13.82	760745.32	486295.06	32°20'05.629"N	103°37'22.629"W	0.00	
11500.00	90.000	179.588	9600.00	2022.97	-2022.91	14.54	760746.04	486195.06	32°20'04.639"N	103°37'22.628"W	0.00	
11600.00	90.000	179.588	9600.00	2122.97	-2122.91	15.26	760746.76	486095.07	32°20'03.650"N	103°37'22.628"W	0.00	
11700.00	90.000	179.588	9600.00	2222.97	-2222.91	15.98	760747.48	485995.07	32°20'02.660"N	103°37'22.627"W	0.00	
11800.00	90.000	179.588	9600.00	2322.97	-2322.91	16.69	760748.19	485895.08	32°20'01.671"N	103°37'22.627"W	0.00	
11900.00	90.000	179.588	9600.00	2422.97	-2422.90	17.41	760748.91	485795.09	32°20'00.681"N	103°37'22.626"W	0.00	
12000.00	90.000	179.588	9600.00	2522.97	-2522.90	18.13	760749.63	485695.09	32°19'59.692"N	103°37'22.625"W	0.00	
12100.00	90.000	179.588	9600.00	2622.97	-2622.90	18.85	760750.35	485595.10	32°19'58.702"N	103°37'22.625"W	0.00	
12200.00	90.000	179.588	9600.00	2722.97	-2722.90	19.57	760751.07	485495.11	32°19'57.713"N	103°37'22.624"W	0.00	
12300.00	90.000	179.588	9600.00	2822.97	-2822.89	20.29	760751.79	485395.11	32°19'56.723"N	103°37'22.623"W	0.00	
12400.00	90.000	179.588	9600.00	2922.97	-2922.89	21.01	760752.51	485295.12	32°19'55.734"N	103°37'22.623"W	0.00	
12500.00	90.000	179.588	9600.00	3022.97	-3022.89	21.73	760753.22	485195.13	32°19'54.744"N	103°37'22.622"W	0.00	
12600.00	90.000	179.588	9600.00	3122.97	-3122.89	22.44	760753.94	485095.13	32°19'53.755"N	103°37'22.621"W	0.00	
12700.00	90.000	179.588	9600.00	3222.97	-3222.88	23.16	760754.66	484995.14	32°19'52.765"N	103°37'22.621"W	0.00	
12800.00	90.000	179.588	9600.00	3322.97	-3322.88	23.88	760755.38	484895.14	32°19'51.776"N	103°37'22.620"W	0.00	
12900.00	90.000	179.588	9600.00	3422.97	-3422.88	24.60	760756.10	484795.15	32°19'50.786"N	103°37'22.619"W	0.00	
13000.00	90.000	179.588	9600.00	3522.97	-3522.88	25.32	760756.82	484695.16	32°19'49.797"N	103°37'22.619"W	0.00	



Planned Wellpath Report

Prelim_1
Page 5 of 5



REFERENCE WELLBORE IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.6H SHL
Area	Lea County, NM	Well	No.6H
Field	(Coriander)Sec 1, T23S, R32E	Wellbore	No.6H PWB
Facility	Coriander AOC State #6H		

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
13100.00	90.000	179.588	9600.00	3622.97	-3622.87	26.04	760757.54	484595.16	32°19'48.807"N	103°37'22.618"W	0.00	
13200.00	90.000	179.588	9600.00	3722.97	-3722.87	26.76	760758.26	484495.17	32°19'47.818"N	103°37'22.617"W	0.00	
13300.00	90.000	179.588	9600.00	3822.97	-3822.87	27.48	760758.97	484395.18	32°19'46.828"N	103°37'22.617"W	0.00	
13400.00	90.000	179.588	9600.00	3922.97	-3922.87	28.19	760759.69	484295.18	32°19'45.839"N	103°37'22.616"W	0.00	
13500.00	90.000	179.588	9600.00	4022.97	-4022.86	28.91	760760.41	484195.19	32°19'44.849"N	103°37'22.616"W	0.00	
13600.00	90.000	179.588	9600.00	4122.97	-4122.86	29.63	760761.13	484095.20	32°19'43.860"N	103°37'22.615"W	0.00	
13700.00	90.000	179.588	9600.00	4222.97	-4222.86	30.35	760761.85	483995.20	32°19'42.870"N	103°37'22.614"W	0.00	
13800.00	90.000	179.588	9600.00	4322.97	-4322.86	31.07	760762.57	483895.21	32°19'41.881"N	103°37'22.614"W	0.00	
13900.00	90.000	179.588	9600.00	4422.97	-4422.85	31.79	760763.29	483795.21	32°19'40.891"N	103°37'22.613"W	0.00	
14000.00	90.000	179.588	9600.00	4522.97	-4522.85	32.51	760764.00	483695.22	32°19'39.902"N	103°37'22.612"W	0.00	
14096.73	90.000	179.588	9600.00	4619.69	-4619.57	33.20	760764.70	483598.50	32°19'38.945"N	103°37'22.612"W	0.00	No.6H PBHL

TARGETS										
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
1) No.6H PBHL	14096.73	9600.00	-4619.57	33.20	760764.70	483598.50	32°19'38.945"N	103°37'22.612"W	point	

SURVEY PROGRAM - Ref Wellbore: No.6H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	14096.73	NavTrak (Standard)		No.6H PWB