

SEP 20 2011

DISTRICT I

1025 W. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30.025-40308	Pool Code 96403	Pool Name Teas; Bone Spring, Wildcat
Property Code 38810	Property Name ADAMS STATE COM	Well Number 3H
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3799'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	6	21 S	33 E		2310	SOUTH	1980	EAST	LEA

Bottom Hole Location If Different From Surface

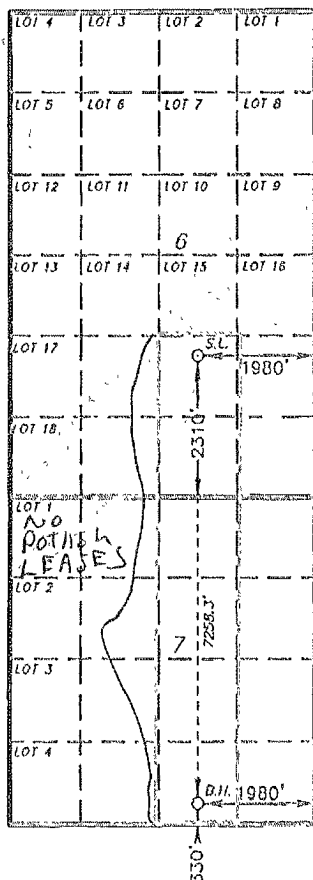
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	7	21 S	33 E		330	SOUTH	1980	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240		Pending	

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

SURFACE LOCATION
Lot - N 32°30'25.25"
Long - W 103°36'34.61"
NMSPC- N 548939.9
E 764441.2
(NAD-83)

**PROPOSED BOTTOM
HOLE LOCATION**
Lot - N 32°29'13.45"
Long - W 103°36'34.54"
NMSPC- N 541603.5
E 764496.4
(NAD-83)



SCALE 1" = 3000'

OPERATOR CERTIFICATION

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.

Zeno Farris 9-19-11

Signature Date

Zeno Farris

Printed Name

Zfarris@cimarex.com

Email Address

SURVEYOR CERTIFICATION

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.

SEPTEMBER 19 2011

Date Surveyed

Signature & Seal of

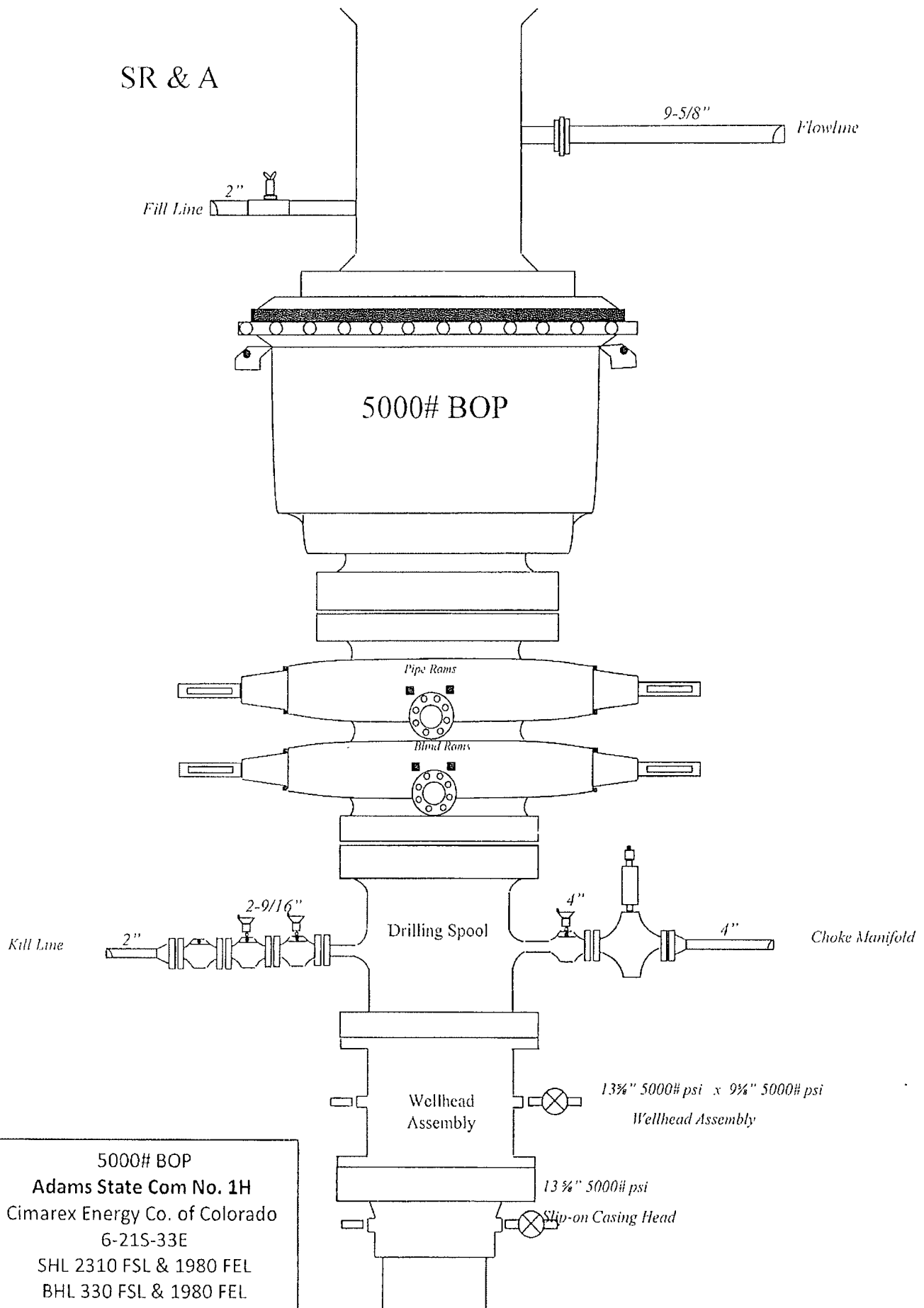
Professional Surveyor

W.G. 000000

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 25203

SR & A



5000# BOP

Adams State Com No. 1H

Cimarex Energy Co. of Colorado

6-21S-33E

SHL 2310 FSL & 1980 FEL

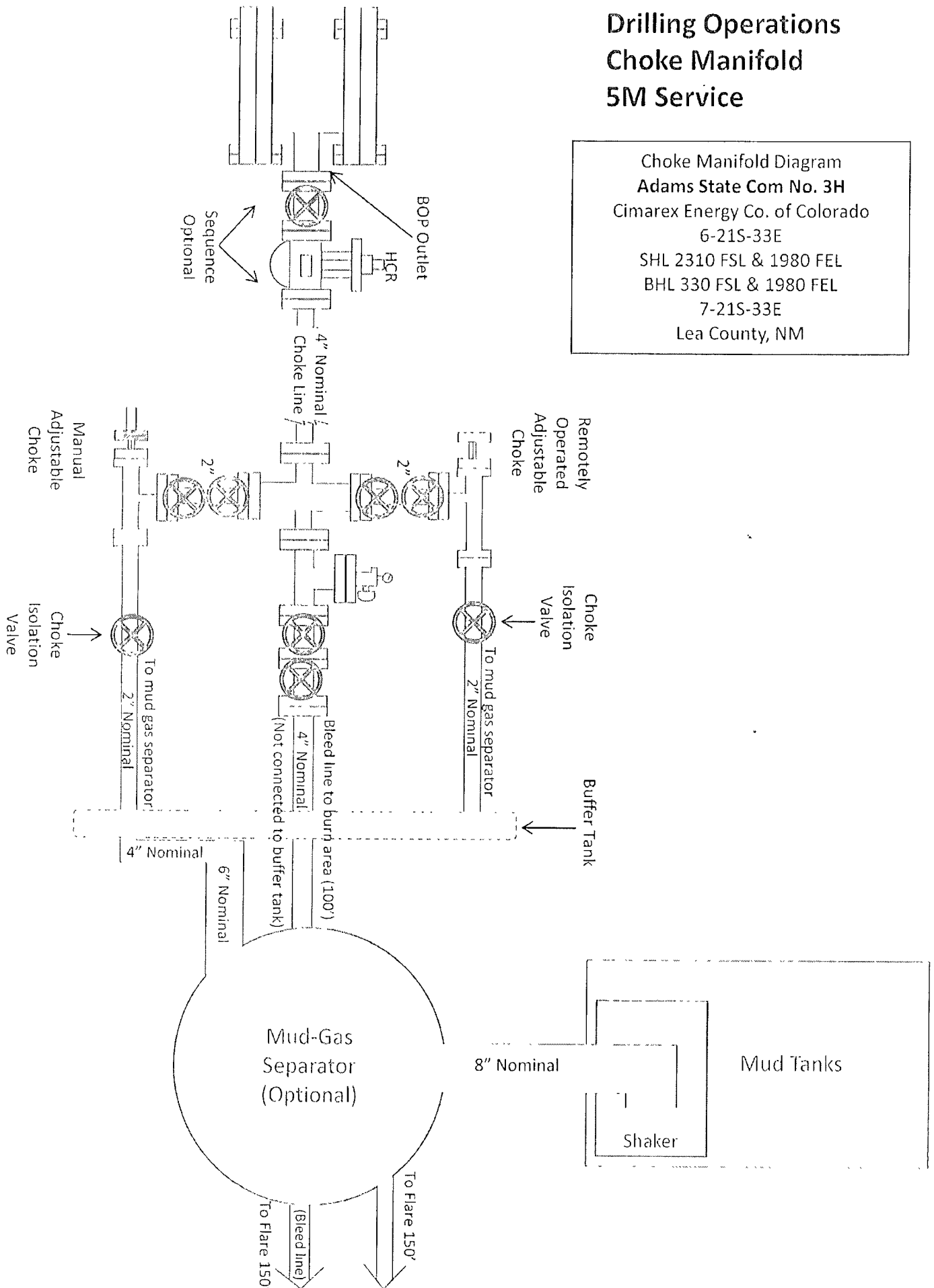
BHL 330 FSL & 1980 FEL

7-21S-33E

Lea County, NM

Drilling Operations Choke Manifold 5M Service

Choke Manifold Diagram
Adams State Com No. 3H
Cimarex Energy Co. of Colorado
6-21S-33E
SHL 2310 FSL & 1980 FEL
BHL 330 FSL & 1980 FEL
7-21S-33E
Lea County, NM





Cimarex Energy Co.

Location Lea County, NM
Field (Adams) Sec 6&7, T21S, R33E
Facility Adams State Com

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



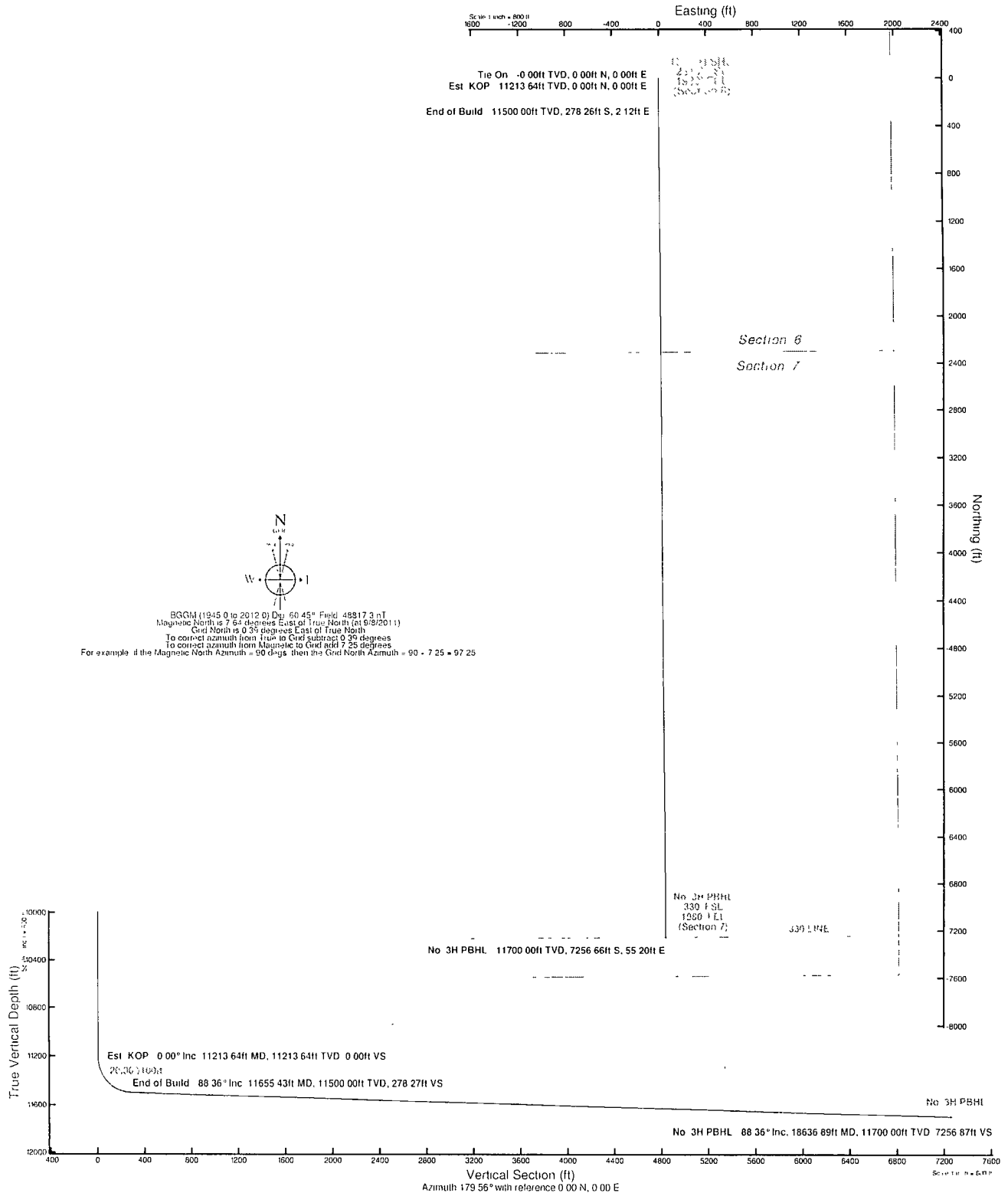
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%100ft)	VS (ft)
Tie On	0 00	0 000	179 564	0 00	0 00	0 00	0 00	0 00
Est KOP	11213 64	0 000	179 564	11213 64	0 00	0 00	0 00	0 00
End of Build	11655 43	88 358	179 564	11500 00	-278 26	2 12	29 00	278 27
No 3H PBHL	18636 89	88 358	179 564	11700 00	-7256 66	55 20	0 00	7256 87

Plot reference wellpath is Prolim_1

True vertical depths are referenced to Rig on No 3H SHL (R1)
Measured depths are referenced to Rig on No 3H SHL (R1)
Rig on No 3H SHL (R1) to Mean Sea Level 0 feet
Mean Sea Level to Madeline (At Slot No 3H SHL) 0 feet
Coordinates are in feet referenced to Slot

Grid System NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
North Reference Grid north
Scale True distance
Depths are in feet
Created by calphik on 9/8/2011





Planned Wellpath Report

Prelim_1

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Adams) Sec 6&7, T21S, R33E	Wellbore	No. 3H PWB
Facility	Adams State Com		

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	Calhphik
Scale	0.999966	Report Generated	9/8/2011 at 12:39:54 PM
Convergence at slot	0.39° East	Database/Source file	WA_Midland/No._3H_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	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W
Facility Reference Pt			764441.20	548939.90	32°30'25.253"N	103°36'34.609"W
Field Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 3H SHL (RT) to GL	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 3H SHL (RT) to Mean Sea Level	0.00ft
Vertical Reference Pt	Rig on No. 3H SHL (RT)	Rig on No. 3H SHL (RT) to Mud Line at Slot (No. 3H SHL)	0.00ft
MD Reference Pt	Rig on No. 3H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.56°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Adams) Sec 6&7, T21S, R33E	Wellbore	No. 3H PWB
Facility	Adams State Com		

WELLPATH DATA (192 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	179.564	0 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	Tie On
100 00†	0.000	179.564	100 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
200 00†	0.000	179.564	200 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
300 00†	0.000	179.564	300 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0.00	
400 00†	0.000	179.564	400 00	0.00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
500 00†	0.000	179.564	500 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
600 00†	0.000	179.564	600 00	0 00	0.00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
700 00†	0.000	179.564	700 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
800 00†	0.000	179.564	800 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
900 00†	0.000	179.564	900 00	0.00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1000 00†	0.000	179.564	1000 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0.00	
1100 00†	0.000	179.564	1100 00	0.00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1200 00†	0.000	179.564	1200 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0.00	
1300 00†	0.000	179.564	1300 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1400 00†	0.000	179.564	1400 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1500 00†	0.000	179.564	1500 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1600 00†	0.000	179.564	1600 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1700 00†	0.000	179.564	1700 00	0 00	0 00	0 00	764441 20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
1800 00†	0.000	179.564	1800 00	0 00	0 00	0 00	764441.20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
1900 00†	0.000	179.564	1900 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0.00	
2000 00†	0.000	179.564	2000 00	0 00	0 00	0 00	764441 20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
2100 00†	0.000	179.564	2100 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2200 00†	0.000	179.564	2200 00	0.00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2300 00†	0.000	179.564	2300 00	0 00	0.00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2400 00†	0.000	179.564	2400 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2500 00†	0.000	179.564	2500 00	0 00	0 00	0 00	764441.20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2600 00†	0.000	179.564	2600 00	0.00	0 00	0 00	764441.20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2700 00†	0.000	179.564	2700 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
2800 00†	0.000	179.564	2800 00	0 00	0.00	0 00	764441 20	548939.90	32°30'25.253"N	103°36'34.609"W	0 00	
2900 00†	0.000	179.564	2900 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0.00	
3000 00†	0.000	179.564	3000 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
3100 00†	0.000	179.564	3100 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
3200 00†	0.000	179.564	3200 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
3300 00†	0.000	179.564	3300 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
3400 00†	0.000	179.564	3400 00	0 00	0.00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0.00	
3500 00†	0.000	179.564	3500 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
3600 00†	0.000	179.564	3600 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
3700 00†	0.000	179.564	3700 00	0 00	0 00	0 00	764441 20	548939.90	32°30'25.253"N	103°36'34.609"W	0 00	
3800 00†	0.000	179.564	3800 00	0 00	0.00	0 00	764441 20	548939.90	32°30'25.253"N	103°36'34.609"W	0 00	
3900 00†	0.000	179.564	3900 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
4000 00†	0.000	179.564	4000 00	0 00	0 00	0 00	764441 20	548939.90	32°30'25.253"N	103°36'34.609"W	0 00	
4100 00†	0.000	179.564	4100 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
4200 00†	0.000	179.564	4200 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
4300 00†	0.000	179.564	4300 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	
4400 00†	0.000	179.564	4400 00	0 00	0 00	0 00	764441 20	548939 90	32°30'25.253"N	103°36'34.609"W	0 00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Adams) Sec 6&7, T21S, R33E	Wellbore	No. 3H PWB
Facility	Adams State Com		

WELLPATH DATA (192 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
4500.00†	0.000	179.564	4500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
4600.00†	0.000	179.564	4600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
4700.00†	0.000	179.564	4700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
4800.00†	0.000	179.564	4800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
4900.00†	0.000	179.564	4900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5000.00†	0.000	179.564	5000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5100.00†	0.000	179.564	5100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5200.00†	0.000	179.564	5200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5300.00†	0.000	179.564	5300.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5400.00†	0.000	179.564	5400.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5500.00†	0.000	179.564	5500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5600.00†	0.000	179.564	5600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5700.00†	0.000	179.564	5700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5800.00†	0.000	179.564	5800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
5900.00†	0.000	179.564	5900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6000.00†	0.000	179.564	6000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6100.00†	0.000	179.564	6100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6200.00†	0.000	179.564	6200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6300.00†	0.000	179.564	6300.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6400.00†	0.000	179.564	6400.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6500.00†	0.000	179.564	6500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6600.00†	0.000	179.564	6600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6700.00†	0.000	179.564	6700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6800.00†	0.000	179.564	6800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
6900.00†	0.000	179.564	6900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7000.00†	0.000	179.564	7000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7100.00†	0.000	179.564	7100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7200.00†	0.000	179.564	7200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7300.00†	0.000	179.564	7300.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7400.00†	0.000	179.564	7400.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7500.00†	0.000	179.564	7500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7600.00†	0.000	179.564	7600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7700.00†	0.000	179.564	7700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7800.00†	0.000	179.564	7800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
7900.00†	0.000	179.564	7900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8000.00†	0.000	179.564	8000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8100.00†	0.000	179.564	8100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8200.00†	0.000	179.564	8200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8300.00†	0.000	179.564	8300.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8400.00†	0.000	179.564	8400.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8500.00†	0.000	179.564	8500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8600.00†	0.000	179.564	8600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8700.00†	0.000	179.564	8700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
8775.00†	0.000	179.564	8775.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	Bone Spring
8800.00†	0.000	179.564	8800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Adams) Sec 6&7, T21S, R33E	Wellbore	No. 3H PWB
Facility	Adams State Com		

WELLPATH DATA (192 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	179.564	8900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9000.00†	0.000	179.564	9000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9100.00†	0.000	179.564	9100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9150.00†	0.000	179.564	9150.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	Upper Bone Spring Shale
9200.00†	0.000	179.564	9200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9300.00†	0.000	179.564	9300.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9400.00†	0.000	179.564	9400.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9500.00†	0.000	179.564	9500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9600.00†	0.000	179.564	9600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9700.00†	0.000	179.564	9700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9800.00†	0.000	179.564	9800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
9900.00†	0.000	179.564	9900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	1st Bone Spring Shale
10000.00†	0.000	179.564	10000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10100.00†	0.000	179.564	10100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10200.00†	0.000	179.564	10200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10300.00†	0.000	179.564	10300.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	2nd Bone Spring Shale
10400.00†	0.000	179.564	10400.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10500.00†	0.000	179.564	10500.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10600.00†	0.000	179.564	10600.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10700.00†	0.000	179.564	10700.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10800.00†	0.000	179.564	10800.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
10900.00†	0.000	179.564	10900.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
11000.00†	0.000	179.564	11000.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
11100.00†	0.000	179.564	11100.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	
11200.00†	0.000	179.564	11200.00	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	3rd Bone Spring Shale
11213.64	0.000	179.564	11213.64	0.00	0.00	0.00	764441.20	548939.90	32°30'25.253"N	103°36'34.609"W	0.00	Est. KOP
11300.00†	17.272	179.564	11298.70	12.92	-12.92	0.10	764441.30	548926.98	32°30'25.125"N	103°36'34.609"W	20.00	
11400.00†	37.272	179.564	11387.13	58.51	-58.51	0.45	764441.65	548881.39	32°30'24.674"N	103°36'34.608"W	20.00	
11500.00†	57.272	179.564	11454.64	131.60	-131.59	1.00	764442.20	548808.31	32°30'23.950"N	103°36'34.608"W	20.00	
11600.00†	77.272	179.564	11493.08	223.36	-223.36	1.70	764442.90	548716.55	32°30'23.042"N	103°36'34.607"W	20.00	
11655.43	88.358	179.564	11500.00	278.27	-278.26	2.12	764443.32	548661.65	32°30'22.499"N	103°36'34.606"W	20.00	End of Build
11700.00†	88.358	179.564	11501.28	322.82	-322.81	2.46	764443.66	548617.10	32°30'22.058"N	103°36'34.606"W	0.00	
11800.00†	88.358	179.564	11504.14	422.78	-422.77	3.22	764444.42	548517.14	32°30'21.069"N	103°36'34.605"W	0.00	
11900.00†	88.358	179.564	11507.01	522.74	-522.73	3.98	764445.18	548417.19	32°30'20.080"N	103°36'34.604"W	0.00	
12000.00†	88.358	179.564	11509.87	622.70	-622.68	4.74	764445.94	548317.24	32°30'19.091"N	103°36'34.603"W	0.00	
12100.00†	88.358	179.564	11512.73	722.66	-722.64	5.50	764446.70	548217.29	32°30'18.102"N	103°36'34.602"W	0.00	
12200.00†	88.358	179.564	11515.60	822.62	-822.59	6.26	764447.46	548117.33	32°30'17.113"N	103°36'34.601"W	0.00	
12300.00†	88.358	179.564	11518.46	922.58	-922.55	7.02	764448.22	548017.38	32°30'16.124"N	103°36'34.600"W	0.00	
12400.00†	88.358	179.564	11521.33	1022.54	-1022.51	7.78	764448.98	547917.43	32°30'15.135"N	103°36'34.599"W	0.00	
12500.00†	88.358	179.564	11524.19	1122.50	-1122.46	8.54	764449.74	547817.48	32°30'14.146"N	103°36'34.598"W	0.00	
12600.00†	88.358	179.564	11527.06	1222.45	-1222.42	9.30	764450.50	547717.52	32°30'13.157"N	103°36'34.597"W	0.00	
12700.00†	88.358	179.564	11529.92	1322.41	-1322.38	10.06	764451.26	547617.57	32°30'12.168"N	103°36'34.596"W	0.00	
12800.00†	88.358	179.564	11532.79	1422.37	-1422.33	10.82	764452.02	547517.62	32°30'11.179"N	103°36'34.595"W	0.00	
12900.00†	88.358	179.564	11535.65	1522.33	-1522.29	11.58	764452.78	547417.67	32°30'10.190"N	103°36'34.594"W	0.00	
13000.00†	88.358	179.564	11538.52	1622.29	-1622.24	12.34	764453.54	547317.71	32°30'09.200"N	103°36'34.593"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Adams) Sec 6&7, T21S, R33E	Wellbore	No. 3H PWB
Facility	Adams State Com		

WELLPATH DATA (192 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†	88.358	179.564	11541.38	1722.25	-1722.20	13.10	764454.30	547217.76	32°30'08.211"N	103°36'34.592"W	0.00	
13200.00†	88.358	179.564	11544.25	1822.21	-1822.16	13.86	764455.06	547117.81	32°30'07.222"N	103°36'34.592"W	0.00	
13300.00†	88.358	179.564	11547.11	1922.17	-1922.11	14.62	764455.82	547017.86	32°30'06.233"N	103°36'34.591"W	0.00	
13400.00†	88.358	179.564	11549.98	2022.13	-2022.07	15.38	764456.58	546917.90	32°30'05.244"N	103°36'34.590"W	0.00	
13500.00†	88.358	179.564	11552.84	2122.09	-2122.02	16.14	764457.34	546817.95	32°30'04.255"N	103°36'34.589"W	0.00	
13600.00†	88.358	179.564	11555.71	2222.04	-2221.98	16.90	764458.10	546718.00	32°30'03.266"N	103°36'34.588"W	0.00	
13700.00†	88.358	179.564	11558.57	2322.00	-2321.94	17.66	764458.86	546618.05	32°30'02.277"N	103°36'34.587"W	0.00	
13800.00†	88.358	179.564	11561.44	2421.96	-2421.89	18.42	764459.62	546518.10	32°30'01.288"N	103°36'34.586"W	0.00	
13900.00†	88.358	179.564	11564.30	2521.92	-2521.85	19.18	764460.38	546418.14	32°30'00.299"N	103°36'34.585"W	0.00	
14000.00†	88.358	179.564	11567.17	2621.88	-2621.80	19.94	764461.14	546318.19	32°29'59.310"N	103°36'34.584"W	0.00	
14100.00†	88.358	179.564	11570.03	2721.84	-2721.76	20.70	764461.90	546218.24	32°29'58.321"N	103°36'34.583"W	0.00	
14200.00†	88.358	179.564	11572.89	2821.80	-2821.72	21.47	764462.66	546118.29	32°29'57.332"N	103°36'34.582"W	0.00	
14300.00†	88.358	179.564	11575.76	2921.76	-2921.67	22.23	764463.42	546018.33	32°29'56.343"N	103°36'34.581"W	0.00	
14400.00†	88.358	179.564	11578.62	3021.72	-3021.63	22.99	764464.18	545918.38	32°29'55.354"N	103°36'34.580"W	0.00	
14500.00†	88.358	179.564	11581.49	3121.67	-3121.58	23.75	764464.95	545818.43	32°29'54.364"N	103°36'34.579"W	0.00	
14600.00†	88.358	179.564	11584.35	3221.63	-3221.54	24.51	764465.71	545718.48	32°29'53.375"N	103°36'34.578"W	0.00	
14700.00†	88.358	179.564	11587.22	3321.59	-3321.50	25.27	764466.47	545618.52	32°29'52.386"N	103°36'34.577"W	0.00	
14800.00†	88.358	179.564	11590.08	3421.55	-3421.45	26.03	764467.23	545518.57	32°29'51.397"N	103°36'34.576"W	0.00	
14900.00†	88.358	179.564	11592.95	3521.51	-3521.41	26.79	764467.99	545418.62	32°29'50.408"N	103°36'34.575"W	0.00	
15000.00†	88.358	179.564	11595.81	3621.47	-3621.36	27.55	764468.75	545318.67	32°29'49.419"N	103°36'34.574"W	0.00	
15100.00†	88.358	179.564	11598.68	3721.43	-3721.32	28.31	764469.51	545218.71	32°29'48.430"N	103°36'34.573"W	0.00	
15200.00†	88.358	179.564	11601.54	3821.39	-3821.28	29.07	764470.27	545118.76	32°29'47.441"N	103°36'34.572"W	0.00	
15300.00†	88.358	179.564	11604.41	3921.35	-3921.23	29.83	764471.03	545018.81	32°29'46.452"N	103°36'34.571"W	0.00	
15400.00†	88.358	179.564	11607.27	4021.31	-4021.19	30.59	764471.79	544918.86	32°29'45.463"N	103°36'34.570"W	0.00	
15500.00†	88.358	179.564	11610.14	4121.26	-4121.15	31.35	764472.55	544818.90	32°29'44.474"N	103°36'34.570"W	0.00	
15600.00†	88.358	179.564	11613.00	4221.22	-4221.10	32.11	764473.31	544718.95	32°29'43.485"N	103°36'34.569"W	0.00	
15700.00†	88.358	179.564	11615.87	4321.18	-4321.06	32.87	764474.07	544619.00	32°29'42.496"N	103°36'34.568"W	0.00	
15800.00†	88.358	179.564	11618.73	4421.14	-4421.01	33.63	764474.83	544519.05	32°29'41.507"N	103°36'34.567"W	0.00	
15900.00†	88.358	179.564	11621.60	4521.10	-4520.97	34.39	764475.59	544419.09	32°29'40.518"N	103°36'34.566"W	0.00	
16000.00†	88.358	179.564	11624.46	4621.06	-4620.93	35.15	764476.35	544319.14	32°29'39.529"N	103°36'34.565"W	0.00	
16100.00†	88.358	179.564	11627.32	4721.02	-4720.88	35.91	764477.11	544219.19	32°29'38.539"N	103°36'34.564"W	0.00	
16200.00†	88.358	179.564	11630.19	4820.98	-4820.84	36.67	764477.87	544119.24	32°29'37.550"N	103°36'34.563"W	0.00	
16300.00†	88.358	179.564	11633.05	4920.94	-4920.79	37.43	764478.63	544019.28	32°29'36.561"N	103°36'34.562"W	0.00	
16400.00†	88.358	179.564	11635.92	5020.89	-5020.75	38.19	764479.39	543919.33	32°29'35.572"N	103°36'34.561"W	0.00	
16500.00†	88.358	179.564	11638.78	5120.85	-5120.71	38.95	764480.15	543819.38	32°29'34.583"N	103°36'34.560"W	0.00	
16600.00†	88.358	179.564	11641.65	5220.81	-5220.66	39.71	764480.91	543719.43	32°29'33.594"N	103°36'34.559"W	0.00	
16700.00†	88.358	179.564	11644.51	5320.77	-5320.62	40.47	764481.67	543619.47	32°29'32.605"N	103°36'34.558"W	0.00	
16800.00†	88.358	179.564	11647.38	5420.73	-5420.57	41.23	764482.43	543519.52	32°29'31.616"N	103°36'34.557"W	0.00	
16900.00†	88.358	179.564	11650.24	5520.69	-5520.53	42.00	764483.19	543419.57	32°29'30.627"N	103°36'34.556"W	0.00	
17000.00†	88.358	179.564	11653.11	5620.65	-5620.49	42.76	764483.95	543319.62	32°29'29.638"N	103°36'34.555"W	0.00	
17100.00†	88.358	179.564	11655.97	5720.61	-5720.44	43.52	764484.71	543219.66	32°29'28.649"N	103°36'34.554"W	0.00	
17200.00†	88.358	179.564	11658.84	5820.57	-5820.40	44.28	764485.47	543119.71	32°29'27.660"N	103°36'34.553"W	0.00	
17300.00†	88.358	179.564	11661.70	5920.53	-5920.35	45.04	764486.23	543019.76	32°29'26.671"N	103°36'34.552"W	0.00	
17400.00†	88.358	179.564	11664.57	6020.48	-6020.31	45.80	764487.00	542919.81	32°29'25.682"N	103°36'34.551"W	0.00	
17500.00†	88.358	179.564	11667.43	6120.44	-6120.27	46.56	764487.76	542819.85	32°29'24.693"N	103°36'34.550"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Adams) Sec 6&7, T21S, R33E	Wellbore	No. 3H PWB
Facility	Adams State Com		

WELLPATH DATA (192 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
17600.00†	88.358	179.564	11670.30	6220.40	-6220.22	47.32	764488.52	542719.90	32°29'23.703"N	103°36'34.549"W	0.00	
17700.00†	88.358	179.564	11673.16	6320.36	-6320.18	48.08	764489.28	542619.95	32°29'22.714"N	103°36'34.548"W	0.00	
17800.00†	88.358	179.564	11676.03	6420.32	-6420.13	48.84	764490.04	542520.00	32°29'21.725"N	103°36'34.547"W	0.00	
17900.00†	88.358	179.564	11678.89	6520.28	-6520.09	49.60	764490.80	542420.04	32°29'20.736"N	103°36'34.547"W	0.00	
18000.00†	88.358	179.564	11681.75	6620.24	-6620.05	50.36	764491.56	542320.09	32°29'19.747"N	103°36'34.546"W	0.00	
18100.00†	88.358	179.564	11684.62	6720.20	-6720.00	51.12	764492.32	542220.14	32°29'18.758"N	103°36'34.545"W	0.00	
18200.00†	88.358	179.564	11687.48	6820.16	-6819.96	51.88	764493.08	542120.19	32°29'17.769"N	103°36'34.544"W	0.00	
18300.00†	88.358	179.564	11690.35	6920.12	-6919.91	52.64	764493.84	542020.23	32°29'16.780"N	103°36'34.543"W	0.00	
18400.00†	88.358	179.564	11693.21	7020.07	-7019.87	53.40	764494.60	541920.28	32°29'15.791"N	103°36'34.542"W	0.00	
18500.00†	88.358	179.564	11696.08	7120.03	-7119.83	54.16	764495.36	541820.33	32°29'14.802"N	103°36'34.541"W	0.00	
18600.00†	88.358	179.564	11698.94	7219.99	-7219.78	54.92	764496.12	541720.38	32°29'13.813"N	103°36'34.540"W	0.00	
18636.89	88.358	179.564	11700.00†	7256.87	-7256.66	55.20	764496.40	541683.50	32°29'13.448"N	103°36'34.539"W	0.00	No. 3H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 3H PBHL	18636.89	11700.00	-7256.66	55.20	764496.40	541683.50	32°29'13.448"N	103°36'34.539"W	point

SURVEY PROGRAM - Ref Wellbore: No. 3H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	18636.89	NaviTrak (Standard)		No. 3H PWB