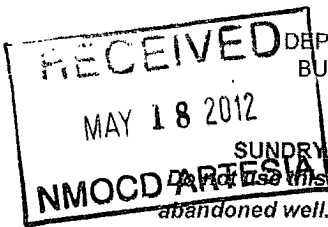


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996



SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Cimarex Energy Co. of Colorado

3a. Address
600 N. Marienfeld St., Ste. 600; Midland, TX 79701

3b. Phone No. (include area code)
432-571-7800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 275 FNL & 700 FEL 14-25S-26E
BHL 660 FSL & 725 FEL

5. Lease Serial No.
NM-19423

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.
White City 14 Federal No. 13H

9. API Well No.
30-015-40202

10. Field and Pool, or Exploratory Area
Wildcat; Wildcat

11. County or Parish, State
Eddy, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>Change SHL</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex requests to move the SHL for the White City 14 Federal No. 13H 75' to the North to avoid a pump Jack on the White City 14 Federal No. 7 well 55' to the South. Wells are co-located on same pad. SHL remains in arch clear buffer and moves further away from drainage tributary to the SW.

From:

275' FNL & 700' FEL, Sec. 14, T25S, R26E

To:

200' FNL & 700' FEL, Sec. 14, T25S, R26E

All other aspects of approved APD remain the same except MD changes to 13980'. See attached revised C-102, directional, Rig plat, and reclamation plat.

Accepted for record

NMOC D

Office Eddy for surface
TES 5/21/2012

Eng OK. Chm. Wells 5/16/12

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Zeno Farris

Signature

Zeno Farris

Title

Manager Operations Administration

Date

May 9, 2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

AFM

Date

5/16/12

Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U S C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone (505) 893-6161 Fax: (505) 893-0720

DISTRICT II

011 S. First St., Artesia, NM 88210
Phone (505) 745-1263 Fax: (505) 745-0720

DISTRICT III

1000 Rio Bravos Rd., Aztec, NM 87410
Phone (505) 331-5176 Fax: (505) 331-5170

DISTRICT IV

1820 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-5482State 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 August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

API Number 30-015-40202	Pool Code 96890	Well Name Sage Draw; W.C. East
Property Code 300600	Property Name WHITE CITY "14" FEDERAL	Well Number 13H
GRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3272'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	25 S	26 E		200	NORTH	700	EAST	EDDY

Bottom Hole Location If Different From Surface

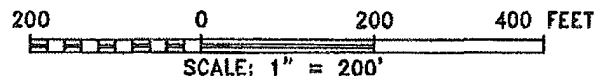
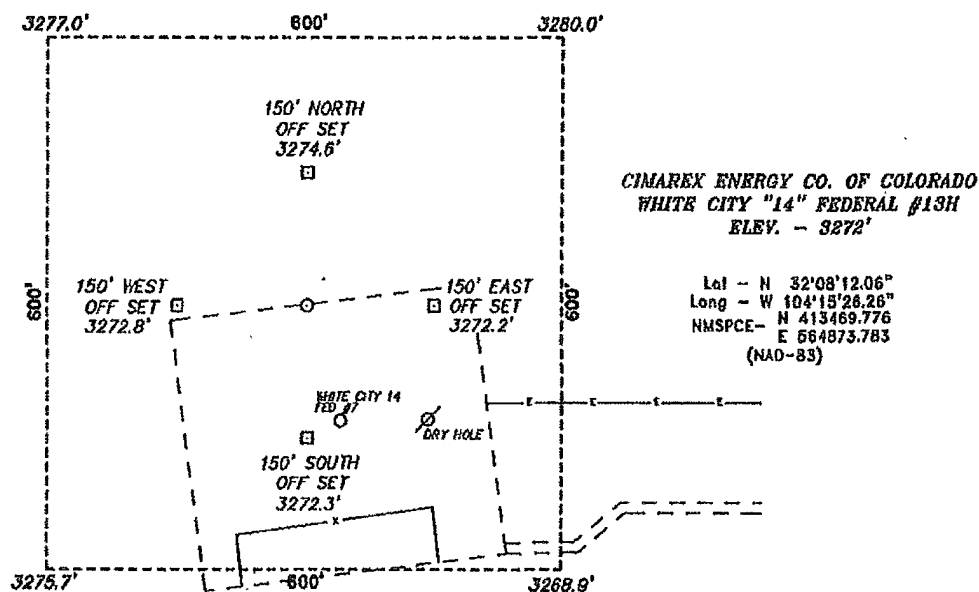
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	25 S	26 E		660	SOUTH	725	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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 Lat - N 32°08'12.06" Long - W 104°15'26.25" NMSPC- N 413489.776 E 564873.783 (NAD-83)	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°07'28.21" Long - W 104°15'26.31" NMSPC- N 409038.278 E 564872.257 (NAD-83)	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. <i>Zeno Farris</i> 9/2012 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. <i>Gary L. Jones</i> Date Surveyed 8/15/12 Signature Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26732

SECTION 14, TOWNSHIP 25 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

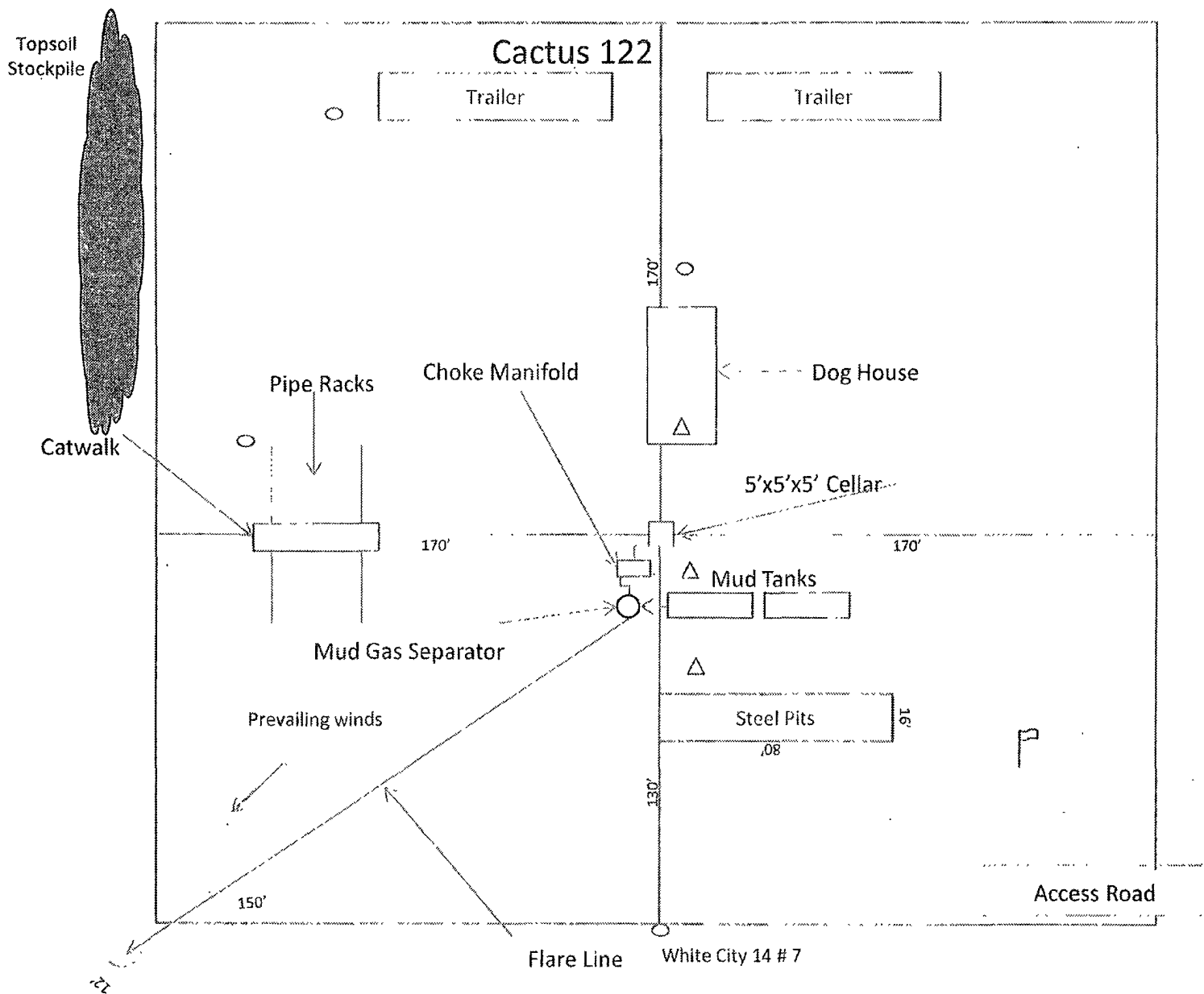


Directions to Location:

FROM THE JUNCTION OF BLACK RIVER VILLAGE AND JOHN D FOREHAND, GO SOUTH ON JOHN D FOREHAND FOR 7.1 MILES TO LEASE ROAD, ON LEASE ROAD GO WEST 0.8 MILES TO LEASE ROAD, GO NORTHWEST ON LEASE ROAD FOR 0.4 MILES TO LEASE ROAD, GO WEST ON LEASE ROAD FOR 0.4 MILES TO LOCATION AND PROPOSED LOCATION.

BASIN SURVEYS P.O. BOX 1786--HOBBS, NEW MEXICO

W.O. Number: 26732	Drawn By: J SMALL	CIMAREX ENERGY CO. OF COLORADO	
Date: 05-09-2012	Disk: JMS 26732	REF: WHITE CITY "14" FEDERAL #13H / WELL PAD TOPO	
		THE WHITE CITY "14" FEDERAL #13H LOCATED 200'	
		FROM THE NORTH LINE AND 700' FROM THE EAST LINE OF	
		SECTION 14, TOWNSHIP 25 SOUTH, RANGE 26 EAST,	
		N.M.P.M., EDDY COUNTY, NEW MEXICO.	
		Survey Date: 05-08-2012	Sheet 1 of 1 Sheets



-  Wind Direction Indicators (wind sock or streamers)
- H2S Monitors
-  (alarms at bell nipple and shale shaker)
-  Briefing Areas



1"=50'

Exhibit D – Rig Diagram
White City 14 Federal No. 13H
 Cimarex Energy Co. of Colorado
 14-25S-26E
 SHL 200 FNL & 700 FEL
 BHL 660 FSL & 725 FEL
 Eddy County, NM

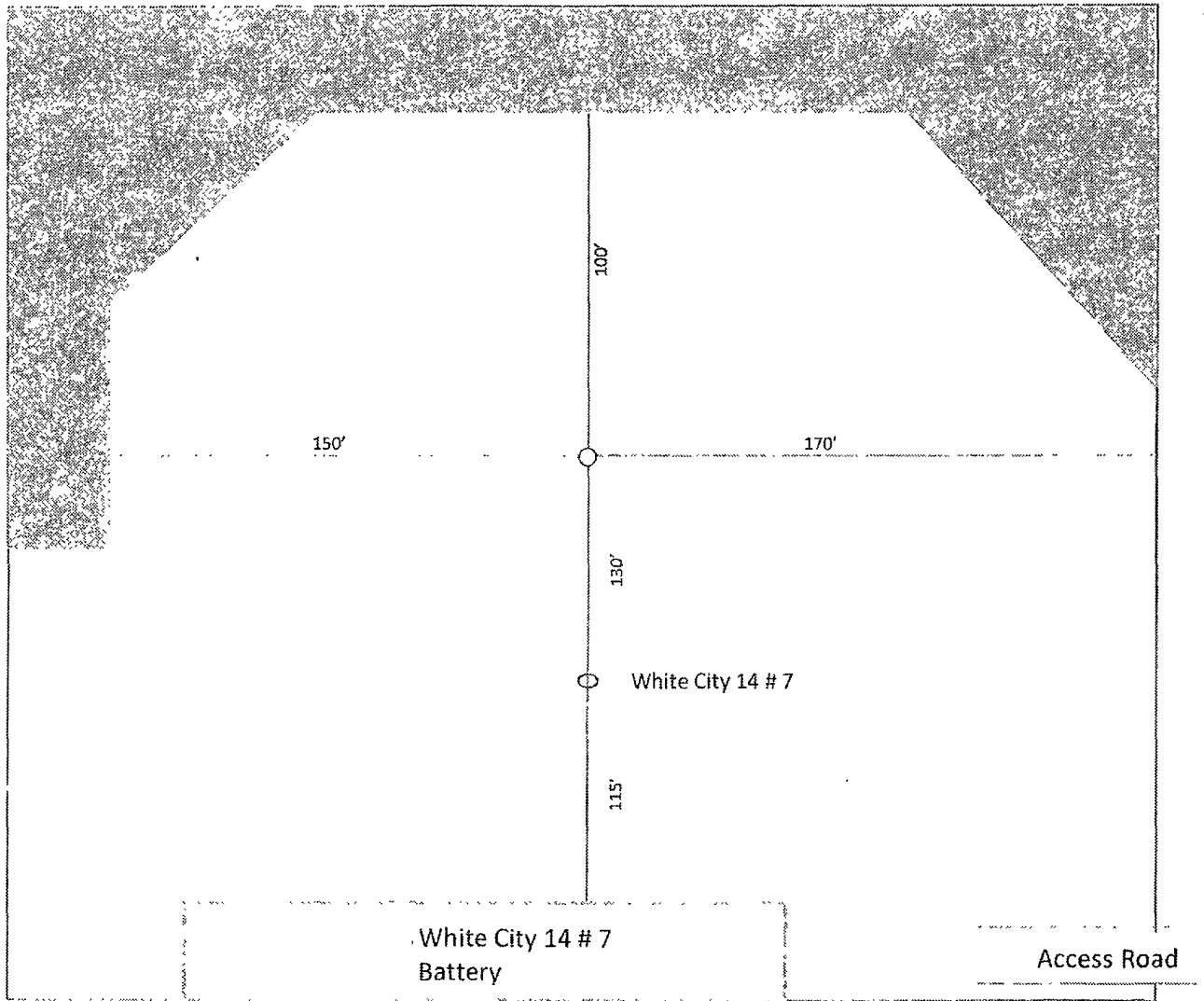
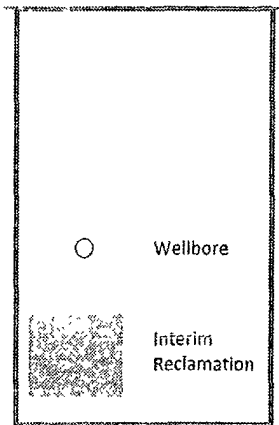


Exhibit D-1
White City 14 Federal No. 13H
Cimarex Energy Co. of Colorado
14-25S-26E
SHL 200 FNL & 700 FEL
BHL 660 FSL & 725 FEL
Eddy County, NM



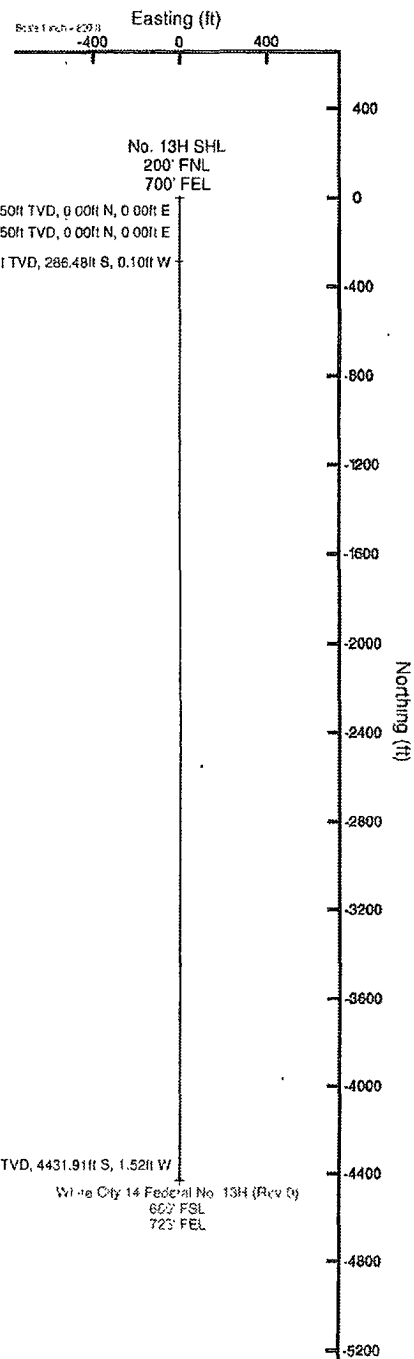
1"=50'



Cimarex Energy Co. of Colorado

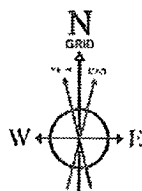
Location: Eddy County, NM
Field: (White City) Sec 14, T25S, R36E
Facility: White City 14 Federal No. 13H

Slot: No. 13H SHL
Well: No. 13H
Wellbore: No. 13H PWB

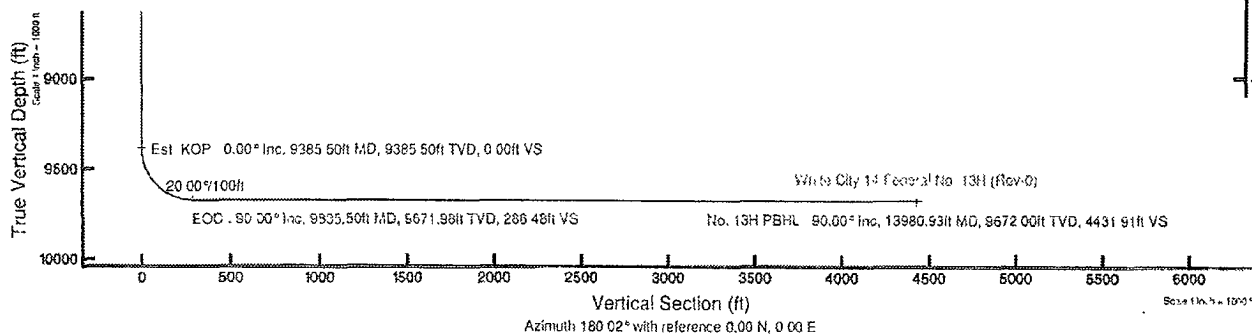


Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	28.50	0.000	180.020	28.50	0.00	0.00	0.00
Est. KOP	9385.50	0.000	180.020	9385.50	0.00	0.00	0.00
EOC	9935.50	90.000	180.020	9671.98	-286.48	-0.10	286.48
No. 13H PWB	13980.93	90.000	180.020	9672.00	-4431.91	-1.52	4431.91

Footprint as path is Rev A 0	
True vertical depths were referenced to Caschus 122 (KB)	Grid System: NAD83, T4 New Mexico SP, Eastern Zone (3201), US feet
Measured depths were referenced to Caschus 122 (KB)	North Reference: Grid north
Caschus 122 (KB) to Mean Sea Level: 3360.5 feet	Scale: True distance
Mean Sea Level to M.d line (At Slot No. 13H SHL): -3272 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: Frank on 5/9/2012



BGG1.1 (1945.0 to 2013.0) Dip: 59.92° Field: 48390.3 nT
Magnetic North is 7.87 degrees East of True North (at 5/9/2012)
Grid North is 0.04 degrees East of True North
To correct azimuth from True to Grid subtract 0.04 degrees
To correct azimuth from Magnetic to Grid add 7.83 degrees
For example: if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 7.83 = 97.83





Planned Wellpath Report

Rev-A.0

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 13H SHL
Area	Eddy County, NM	Well	No. 13H
Field	(White City) Sec 14, T25S, R36E	Wellbore	No. 13H PWB
Facility	White City 14 Federal No. 13H		

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	Harrkol
Scale	0.99991	Report Generated	5/9/2012 at 5:25:03 PM
Convergence at slot	0.04° East	Database/Source file	WA Midland/No. 13H_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	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W
Facility Reference Pt			564873.78	413469.78	32°08'12.064"N	104°15'26.258"W
Field Reference Pt			564873.78	413469.78	32°08'12.064"N	104°15'26.258"W

WELLPATH DATUM

Calculation method	Minimum curvature	Cactus 122 (KB) to Facility Vertical Datum	28.50ft
Horizontal Reference Pt	Slot	Cactus 122 (KB) to Mean Sea Level	3300.50ft
Vertical Reference Pt	Cactus 122 (KB)	Cactus 122 (KB) to Mud Line at Slot (No. 13H SHL)	28.50ft
MD Reference Pt	Cactus 122 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.02°



Planned Wellpath Report

Rev-A.0
Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 13H SHL
Area	Eddy County, NM	Well	No. 13H
Field	(White City) Sec.14, T25S, R36E	Wellbore	No. 13H PWB
Facility	White City 14 Federal No. 13H		

WELLPATH DATA (144 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	180.020	0.00	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
28.50	0.000	180.020	28.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	Tie On
128.50†	0.000	180.020	128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
228.50†	0.000	180.020	228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
328.50†	0.000	180.020	328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
428.50†	0.000	180.020	428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
528.50†	0.000	180.020	528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
628.50†	0.000	180.020	628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
728.50†	0.000	180.020	728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
828.50†	0.000	180.020	828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
928.50†	0.000	180.020	928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1028.50†	0.000	180.020	1028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1128.50†	0.000	180.020	1128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1228.50†	0.000	180.020	1228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1328.50†	0.000	180.020	1328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1428.50†	0.000	180.020	1428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1528.50†	0.000	180.020	1528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1628.50†	0.000	180.020	1628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1728.50†	0.000	180.020	1728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1828.50†	0.000	180.020	1828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
1928.50†	0.000	180.020	1928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2028.50†	0.000	180.020	2028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2128.50†	0.000	180.020	2128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2228.50†	0.000	180.020	2228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2328.50†	0.000	180.020	2328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2428.50†	0.000	180.020	2428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2528.50†	0.000	180.020	2528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2628.50†	0.000	180.020	2628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2728.50†	0.000	180.020	2728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2828.50†	0.000	180.020	2828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
2928.50†	0.000	180.020	2928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3028.50†	0.000	180.020	3028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3128.50†	0.000	180.020	3128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3228.50†	0.000	180.020	3228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3328.50†	0.000	180.020	3328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3428.50†	0.000	180.020	3428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3528.50†	0.000	180.020	3528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3628.50†	0.000	180.020	3628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3728.50†	0.000	180.020	3728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3828.50†	0.000	180.020	3828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
3928.50†	0.000	180.020	3928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4028.50†	0.000	180.020	4028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4128.50†	0.000	180.020	4128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4228.50†	0.000	180.020	4228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4328.50†	0.000	180.020	4328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 13H SHL
Area	Eddy County, NM	Well	No. 13H
Field	(White City) Sec 14, T25S, R36E	Wellbore	No. 13H PWB
Facility	White City 14 Federal No. 13H		

WELLPATH DATA (144 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
4428.50†	0.000	180.020	4428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4528.50†	0.000	180.020	4528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4628.50†	0.000	180.020	4628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4728.50†	0.000	180.020	4728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4828.50†	0.000	180.020	4828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
4928.50†	0.000	180.020	4928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5028.50†	0.000	180.020	5028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5128.50†	0.000	180.020	5128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5228.50†	0.000	180.020	5228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5328.50†	0.000	180.020	5328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5428.50†	0.000	180.020	5428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5528.50†	0.000	180.020	5528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5628.50†	0.000	180.020	5628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5728.50†	0.000	180.020	5728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5828.50†	0.000	180.020	5828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
5928.50†	0.000	180.020	5928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6028.50†	0.000	180.020	6028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6128.50†	0.000	180.020	6128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6228.50†	0.000	180.020	6228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6328.50†	0.000	180.020	6328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6428.50†	0.000	180.020	6428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6528.50†	0.000	180.020	6528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6628.50†	0.000	180.020	6628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6728.50†	0.000	180.020	6728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6828.50†	0.000	180.020	6828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
6928.50†	0.000	180.020	6928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7028.50†	0.000	180.020	7028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7128.50†	0.000	180.020	7128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7228.50†	0.000	180.020	7228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7328.50†	0.000	180.020	7328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7428.50†	0.000	180.020	7428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7528.50†	0.000	180.020	7528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7628.50†	0.000	180.020	7628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7728.50†	0.000	180.020	7728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7828.50†	0.000	180.020	7828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
7928.50†	0.000	180.020	7928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8028.50†	0.000	180.020	8028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8128.50†	0.000	180.020	8128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8228.50†	0.000	180.020	8228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8328.50†	0.000	180.020	8328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8428.50†	0.000	180.020	8428.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8528.50†	0.000	180.020	8528.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8628.50†	0.000	180.020	8628.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8728.50†	0.000	180.020	8728.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
8828.50†	0.000	180.020	8828.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 13H SHL
Area	Eddy County, NM	Well	No. 13H
Field	(White City) Sec 14, T25S, R36E	Wellbore	No. 13H PWB
Facility	White City 14 Federal No. 13H		

WELLPATH DATA (144 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
8928.50†	0.000	180.020	8928.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
9028.50†	0.000	180.020	9028.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
9128.50†	0.000	180.020	9128.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
9228.50†	0.000	180.020	9228.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
9328.50†	0.000	180.020	9328.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	
9385.50	0.000	180.020	9385.50	0.00	0.00	0.00	564873.78	413469.78	32°08'12.064"N	104°15'26.258"W	0.00	Est. KOP
9428.50†	8.600	180.020	9428.34	3.22	-3.22	0.00	564873.78	413466.56	32°08'12.032"N	104°15'26.258"W	20.00	
9528.50†	28.600	180.020	9522.64	34.96	-34.96	-0.01	564873.77	413434.83	32°08'11.718"N	104°15'26.259"W	20.00	
9628.50†	48.600	180.020	9600.39	97.03	-97.03	-0.03	564873.75	413372.76	32°08'11.104"N	104°15'26.259"W	20.00	
9728.50†	68.600	180.020	9652.23	181.95	-181.95	-0.06	564873.72	413287.85	32°08'10.263"N	104°15'26.260"W	20.00	
9828.50†	88.600	180.020	9671.89	279.48	-279.48	-0.10	564873.68	413190.33	32°08'09.298"N	104°15'26.262"W	20.00	
9835.50	90.000	180.020	9671.98	286.48	-286.48	-0.10	564873.68	413183.33	32°08'09.229"N	104°15'26.262"W	20.00	EOC
9928.50†	90.000	180.020	9671.98	379.48	-379.48	-0.13	564873.65	413090.34	32°08'08.309"N	104°15'26.263"W	0.00	
10028.50†	90.000	180.020	9671.98	479.48	-479.48	-0.16	564873.62	412990.35	32°08'07.319"N	104°15'26.264"W	0.00	
10128.50†	90.000	180.020	9671.98	579.48	-579.48	-0.20	564873.58	412890.35	32°08'06.330"N	104°15'26.265"W	0.00	
10228.50†	90.000	180.020	9671.98	679.48	-679.48	-0.23	564873.55	412790.36	32°08'05.340"N	104°15'26.266"W	0.00	
10328.50†	90.000	180.020	9671.98	779.48	-779.48	-0.27	564873.51	412690.37	32°08'04.351"N	104°15'26.268"W	0.00	
10428.50†	90.000	180.020	9671.98	879.48	-879.48	-0.30	564873.48	412590.38	32°08'03.361"N	104°15'26.269"W	0.00	
10528.50†	90.000	180.020	9671.98	979.48	-979.48	-0.34	564873.44	412490.39	32°08'02.371"N	104°15'26.270"W	0.00	
10628.50†	90.000	180.020	9671.98	1079.48	-1079.48	-0.37	564873.41	412390.40	32°08'01.382"N	104°15'26.271"W	0.00	
10728.50†	90.000	180.020	9671.98	1179.48	-1179.48	-0.41	564873.37	412290.41	32°08'00.392"N	104°15'26.272"W	0.00	
10828.50†	90.000	180.020	9671.98	1279.48	-1279.48	-0.44	564873.34	412190.42	32°07'59.403"N	104°15'26.274"W	0.00	
10928.50†	90.000	180.020	9671.98	1379.48	-1379.48	-0.47	564873.31	412090.43	32°07'58.413"N	104°15'26.275"W	0.00	
11028.50†	90.000	180.020	9671.98	1479.48	-1479.48	-0.51	564873.27	411990.44	32°07'57.424"N	104°15'26.276"W	0.00	
11128.50†	90.000	180.020	9671.99	1579.48	-1579.48	-0.54	564873.24	411890.45	32°07'56.434"N	104°15'26.277"W	0.00	
11228.50†	90.000	180.020	9671.99	1679.48	-1679.48	-0.58	564873.20	411790.46	32°07'55.445"N	104°15'26.279"W	0.00	
11328.50†	90.000	180.020	9671.99	1779.48	-1779.48	-0.61	564873.17	411690.47	32°07'54.455"N	104°15'26.280"W	0.00	
11428.50†	90.000	180.020	9671.99	1879.48	-1879.48	-0.65	564873.13	411590.47	32°07'53.466"N	104°15'26.281"W	0.00	
11528.50†	90.000	180.020	9671.99	1979.48	-1979.48	-0.68	564873.10	411490.48	32°07'52.476"N	104°15'26.282"W	0.00	
11628.50†	90.000	180.020	9671.99	2079.48	-2079.48	-0.71	564873.07	411390.49	32°07'51.487"N	104°15'26.283"W	0.00	
11728.50†	90.000	180.020	9671.99	2179.48	-2179.48	-0.75	564873.03	411290.50	32°07'50.497"N	104°15'26.285"W	0.00	
11828.50†	90.000	180.020	9671.99	2279.48	-2279.48	-0.78	564873.00	411190.51	32°07'49.508"N	104°15'26.286"W	0.00	
11928.50†	90.000	180.020	9671.99	2379.48	-2379.48	-0.82	564872.96	411090.52	32°07'48.518"N	104°15'26.287"W	0.00	
12028.50†	90.000	180.020	9671.99	2479.48	-2479.48	-0.85	564872.93	410990.53	32°07'47.529"N	104°15'26.288"W	0.00	
12128.50†	90.000	180.020	9671.99	2579.48	-2579.48	-0.89	564872.89	410890.54	32°07'46.539"N	104°15'26.290"W	0.00	
12228.50†	90.000	180.020	9671.99	2679.48	-2679.48	-0.92	564872.86	410790.55	32°07'45.549"N	104°15'26.291"W	0.00	
12328.50†	90.000	180.020	9671.99	2779.48	-2779.48	-0.96	564872.82	410690.56	32°07'44.560"N	104°15'26.292"W	0.00	
12428.50†	90.000	180.020	9671.99	2879.48	-2879.48	-0.99	564872.79	410590.57	32°07'43.570"N	104°15'26.293"W	0.00	
12528.50†	90.000	180.020	9671.99	2979.48	-2979.48	-1.02	564872.76	410490.58	32°07'42.581"N	104°15'26.294"W	0.00	
12628.50†	90.000	180.020	9671.99	3079.48	-3079.48	-1.06	564872.72	410390.59	32°07'41.591"N	104°15'26.296"W	0.00	
12728.50†	90.000	180.020	9671.99	3179.48	-3179.48	-1.09	564872.69	410290.59	32°07'40.602"N	104°15'26.297"W	0.00	
12828.50†	90.000	180.020	9671.99	3279.48	-3279.48	-1.13	564872.65	410190.60	32°07'39.612"N	104°15'26.298"W	0.00	
12928.50†	90.000	180.020	9671.99	3379.48	-3379.48	-1.16	564872.62	410090.61	32°07'38.623"N	104°15'26.299"W	0.00	
13028.50†	90.000	180.020	9672.00	3479.48	-3479.48	-1.20	564872.58	409990.62	32°07'37.633"N	104°15'26.301"W	0.00	
13128.50†	90.000	180.020	9672.00	3579.48	-3579.48	-1.23	564872.55	409890.63	32°07'36.644"N	104°15'26.302"W	0.00	



Planned Wellpath Report

Rev-A.0

Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 13H SHL
Area	Eddy County, NM	Well	No. 13H
Field	(White City) Sec 14, T25S, R36E	Wellbore	No. 13H PWB
Facility	White City 14 Federal No. 13H		

WELLPATH DATA (144 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
13228.50†	90.000	180.020	9672.00	3679.48	-3679.48	-1.26	564872.52	409790.64	32°07'35.654"N	104°15'26.303"W	0.00	
13328.50†	90.000	180.020	9672.00	3779.48	-3779.48	-1.30	564872.48	409690.65	32°07'34.665"N	104°15'26.304"W	0.00	
13428.50†	90.000	180.020	9672.00	3879.48	-3879.48	-1.33	564872.45	409590.66	32°07'33.675"N	104°15'26.305"W	0.00	
13528.50†	90.000	180.020	9672.00	3979.48	-3979.48	-1.37	564872.41	409490.67	32°07'32.686"N	104°15'26.307"W	0.00	
13628.50†	90.000	180.020	9672.00	4079.48	-4079.48	-1.40	564872.38	409390.68	32°07'31.696"N	104°15'26.308"W	0.00	
13728.50†	90.000	180.020	9672.00	4179.48	-4179.48	-1.44	564872.34	409290.69	32°07'30.707"N	104°15'26.309"W	0.00	
13828.50†	90.000	180.020	9672.00	4279.48	-4279.48	-1.47	564872.31	409190.70	32°07'29.717"N	104°15'26.310"W	0.00	
13928.50†	90.000	180.020	9672.00	4379.48	-4379.48	-1.51	564872.28	409090.71	32°07'28.727"N	104°15'26.312"W	0.00	
13980.93	90.000	180.020	9672.00	4431.91	-4431.91	-1.52	564872.26	409038.28	32°07'28.209"N	104°15'26.312"W	0.00	No. 13H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) White City 14 Federal No. 13H (Rev-0)	13980.93	9672.00	-4431.91	-1.52	564872.26	409038.28	32°07'28.209"N	104°15'26.312"W	point

SURVEY PROGRAM - Ref Wellbore: No. 13H PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.50	13980.93	NaviTrak (Standard)		No. 13H PWB