

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO 1004-0135
Expires: July 31, 2010**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.*OCD Hobbs
HOBBS OCD

JUN 06 2012

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No NMLC066126
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: ZENO FARRIS E-Mail: zfarris@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1938 Fx: 432-620-1940	7. If Unit or CA/Agreement, Name and/or No
4. Location of Well (Footage, Sec, T, R, M, or Survey Description) Sec 26 T20S R34E NWNW 660FNL 440FWL		8. Well Name and No HANSON 26 FEDERAL 1H
		9. API Well No 30-025-40327-00-X1
		10. Field and Pool, or Exploratory LEA
		11. County or Parish, and State LEA COUNTY, 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
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including 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.)

Change BHL orientation from West to East to North to South. SHL and all other aspects of the permit except MD remain the same. BHL move will require name change also.

Current BHL: 660' FNL & 330' FEL

New BHL: 330' FSL & 660' FWL

Current MD: 15475'

New MD: 15252'

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

PETROLEUM ENGINEER

JUN 07 2012

14. I hereby certify that the foregoing is true and correct	
Electronic Submission #139169 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 06/04/2012 (12CRW0013SE)	
Name (Printed/Typed) ZENO FARRIS	Title MANAGER OPERATIONS ADMIN
Signature (Electronic Submission)	Date 05/29/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 06/04/2012
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 Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

JUN 07 2012

Additional data for EC transaction #139169 that would not fit on the form

32. Additional remarks, continued

Current well name: Hanson 26 Federal No. 1H

New well name: Hanson 26 Federal Com No. 1H

See attached C-102 and prelim Directional.

HOBBS OGD

JUN 06 2012

DISTRICT I

1623 N. French Dr., Hobbs, NM 88240

DISTRICT II

1501 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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505Form C-102
Revised October 15, 2009

RECEIVED

Mail one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40327	Pool Code 37580	Pool Name Lea Bone Spring, South
Property Code	Property Name HANSON "26" FEDERAL Com	Well Number 1H
OCRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3683'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	20 S	34 E		660	NORTH	440	WEST	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
M	26	20 S	34 E		330	SOUTH	660	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

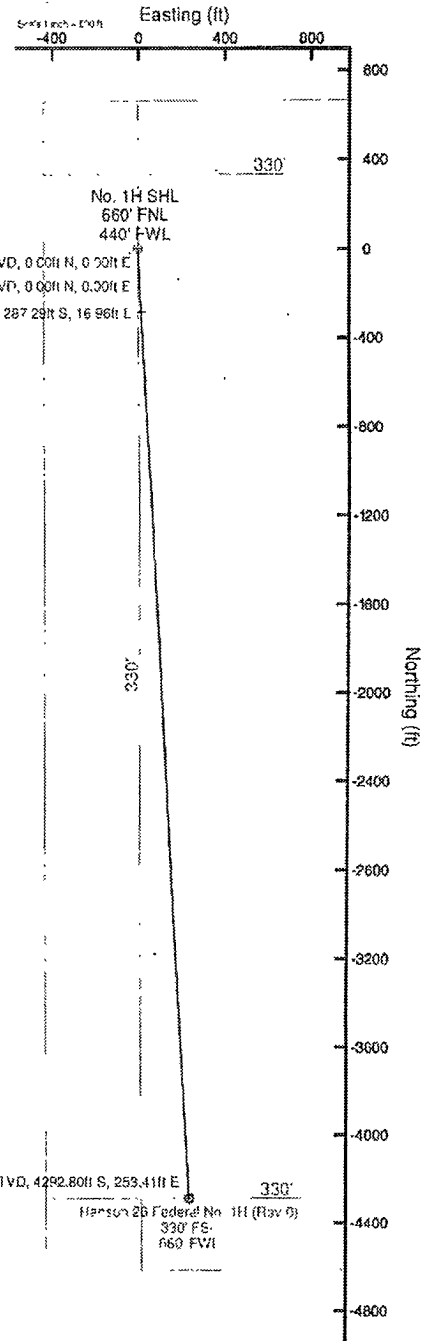
	SURFACE LOCATION Lat - N 32°32'58.40" Long - W 103°32'17.07" NMSPCE- N 564574.4 E 786380.1 (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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. Zeno Farris 5/29/2012 Signature Date Zeno Farris Printed Name Zfarris@cimarex.com
	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°32'15.91" Long - W 103°32'14.48" NMSPCE- N 560281.7 E 786633.5 (NAD-83)	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. Date Surveyed 5/29/2012 Signature of Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS



Cimarex Energy Co. of Colorado

Location: Lea County, NM
Field: (Hanson) Sec 26, T20S, R34E
Facility: Hanson 26 Federal No. 1H

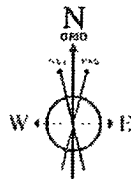
Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



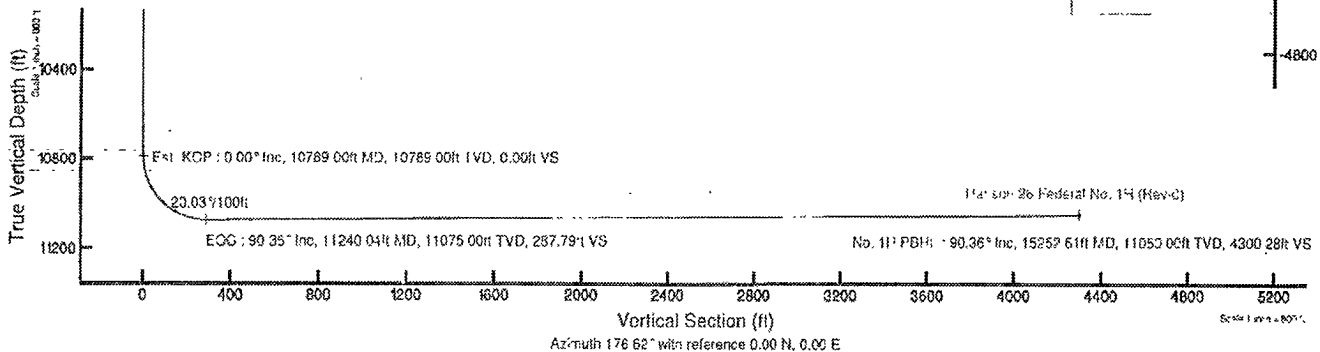
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/1000')	VS (ft)
Tie On	0.00	0.000	176.622	0.00	0.00	0.00	0.00	0.00
Est KOP	10789.00	0.000	176.622	10789.00	0.00	0.00	0.00	0.00
EOC	11240.04	90.357	176.622	11075.00	287.29	16.96	20.03	287.79
No. 1H PWB	15252.61	90.357	176.622	11050.00	-4292.80	253.41	0.00	4330.28

Reference wellbore Rev A.0	
The vertical depths are referenced to Figure 1H SHL (KB)	Grid System: NAD83/14N New Mexico SP, Eastern Zone (5001), U.S. feet
Measured depths are referenced to Rig or No. 1H SHL (KB)	North Reference: Grid North
Rig or No. 1H SHL (KB) to Mean Sea Level: 3233 feet	Scale: True distance
Mean Sea Level to Measured Depth: 1H SHL: 3233 feet	Depth: in feet
Coordinates are in feet, not in feet	Created by: hanson on 5/14/2012



BGGM (1915.0 to 2013.0) Dip: 50° 5' F. d. 48755.4 ft
Magnetic North is 7.59 degrees East of True North (at 2/23/2012)
Grid North is 0.43 degrees East of True North
To correct azimuth from True to Grid subtract 0.43 degrees
To correct azimuth from Magnetic to Grid add 7.16 degrees
For example, if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 7.16 = 97.16





Planned Wellpath Report

Rev-A.0
Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hanson) Sec 26, T20S, R34E	Wellbore	No. 1H PWB
Facility	Hanson 26 Federal No.1H		

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	0.999978	Report Generated	5/14/2012 at 5:10:37 PM
Convergence at slot	0.43° East	Database/Source file	WA Midland/No._1H_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	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W
Facility Reference Pt			786380.10	564574.40	32°32'58.404"N	103°32'17.066"W
Field Reference Pt			786380.10	564574.40	32°32'58.404"N	103°32'17.066"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to GL	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	3683.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	Rig on No. 1H SHL (KB) to Mud Line at Slot (No. 1H SHL)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	176.62°



Planned Wellpath Report

Rev-A.0
Page 2 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hanson) Sec 26, T20S, R34E	Wellbore	No. 1H PWB
Facility	Hanson 26 Federal No.1H		

WELLPATH DATA (159 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	176.622	0.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	File On
100.00†	0.000	176.622	100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
200.00†	0.000	176.622	200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
300.00†	0.000	176.622	300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
400.00†	0.000	176.622	400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
500.00†	0.000	176.622	500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
600.00†	0.000	176.622	600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
700.00†	0.000	176.622	700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
800.00†	0.000	176.622	800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
900.00†	0.000	176.622	900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1000.00†	0.000	176.622	1000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1100.00†	0.000	176.622	1100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1200.00†	0.000	176.622	1200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1300.00†	0.000	176.622	1300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1400.00†	0.000	176.622	1400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1500.00†	0.000	176.622	1500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1600.00†	0.000	176.622	1600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1700.00†	0.000	176.622	1700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1800.00†	0.000	176.622	1800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
1900.00†	0.000	176.622	1900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2000.00†	0.000	176.622	2000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2100.00†	0.000	176.622	2100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2200.00†	0.000	176.622	2200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2300.00†	0.000	176.622	2300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2400.00†	0.000	176.622	2400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2500.00†	0.000	176.622	2500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2600.00†	0.000	176.622	2600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2700.00†	0.000	176.622	2700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2800.00†	0.000	176.622	2800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
2900.00†	0.000	176.622	2900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3000.00†	0.000	176.622	3000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3100.00†	0.000	176.622	3100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3200.00†	0.000	176.622	3200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3300.00†	0.000	176.622	3300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3400.00†	0.000	176.622	3400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3500.00†	0.000	176.622	3500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3600.00†	0.000	176.622	3600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3700.00†	0.000	176.622	3700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3800.00†	0.000	176.622	3800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
3900.00†	0.000	176.622	3900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4000.00†	0.000	176.622	4000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4100.00†	0.000	176.622	4100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4200.00†	0.000	176.622	4200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4300.00†	0.000	176.622	4300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4400.00†	0.000	176.622	4400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	



Planned Wellpath Report

Rev-A.0

Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hanson) Sec 26, T20S, R34E	Wellbore	No. 1H PWB
Facility	Hanson 26 Federal No.1H		

WELLPATH DATA (159 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	176.622	4500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4600.00†	0.000	176.622	4600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4700.00†	0.000	176.622	4700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4800.00†	0.000	176.622	4800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
4900.00†	0.000	176.622	4900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5000.00†	0.000	176.622	5000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5100.00†	0.000	176.622	5100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5200.00†	0.000	176.622	5200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5300.00†	0.000	176.622	5300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5400.00†	0.000	176.622	5400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5500.00†	0.000	176.622	5500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5600.00†	0.000	176.622	5600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5700.00†	0.000	176.622	5700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	Cherry Canyon
5800.00†	0.000	176.622	5800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
5900.00†	0.000	176.622	5900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6000.00†	0.000	176.622	6000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6100.00†	0.000	176.622	6100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6200.00†	0.000	176.622	6200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6300.00†	0.000	176.622	6300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6400.00†	0.000	176.622	6400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6500.00†	0.000	176.622	6500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6600.00†	0.000	176.622	6600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6700.00†	0.000	176.622	6700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6800.00†	0.000	176.622	6800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
6900.00†	0.000	176.622	6900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7000.00†	0.000	176.622	7000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7100.00†	0.000	176.622	7100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7200.00†	0.000	176.622	7200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7300.00†	0.000	176.622	7300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7400.00†	0.000	176.622	7400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7500.00†	0.000	176.622	7500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7600.00†	0.000	176.622	7600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7700.00†	0.000	176.622	7700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7800.00†	0.000	176.622	7800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
7900.00†	0.000	176.622	7900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8000.00†	0.000	176.622	8000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8100.00†	0.000	176.622	8100.00	0.00	0.00	0.00	786380.10	561574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8200.00†	0.000	176.622	8200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8300.00†	0.000	176.622	8300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8380.00†	0.000	176.622	8380.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	Bone Spring
8400.00†	0.000	176.622	8400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8500.00†	0.000	176.622	8500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8600.00†	0.000	176.622	8600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8700.00†	0.000	176.622	8700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
8800.00†	0.000	176.622	8800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	Avalon Shale



Planned Wellpath Report

Rev-A.0
Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hanson) Sec 26, T20S, R34E	Wellbore	No. 1H PWB
Facility	Hanson 26 Federal No.1H		

WELLPATH DATA (159 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	176.622	8900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9000.00†	0.000	176.622	9000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9100.00†	0.000	176.622	9100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9200.00†	0.000	176.622	9200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9300.00†	0.000	176.622	9300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9400.00†	0.000	176.622	9400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9500.00†	0.000	176.622	9500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9600.00†	0.000	176.622	9600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	1st Bone Spring Shale
9700.00†	0.000	176.622	9700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9800.00†	0.000	176.622	9800.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
9900.00†	0.000	176.622	9900.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10000.00†	0.000	176.622	10000.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10100.00†	0.000	176.622	10100.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10150.00†	0.000	176.622	10150.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	2nd Bone Spring Shale
10200.00†	0.000	176.622	10200.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10300.00†	0.000	176.622	10300.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10400.00†	0.000	176.622	10400.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10500.00†	0.000	176.622	10500.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10600.00†	0.000	176.622	10600.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10700.00†	0.000	176.622	10700.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	
10789.00	0.000	176.622	10789.00	0.00	0.00	0.00	786380.10	564574.40	32°32'58.404"N	103°32'17.066"W	0.00	Est. KOP
10800.00†	2.204	176.622	10800.00	0.21	-0.21	0.01	786380.11	564574.19	32°32'58.402"N	103°32'17.065"W	20.03	
10900.00†	22.237	176.622	10897.23	21.27	-21.23	1.25	786381.35	564553.17	32°32'58.194"N	103°32'17.053"W	20.03	
10902.99†	22.836	176.622	10900.00	22.42	-22.38	1.32	786381.42	564552.02	32°32'58.183"N	103°32'17.052"W	20.03	3rd Bone Spring Shale
11000.00†	42.270	176.622	10981.37	74.37	-74.24	4.38	786384.48	564500.17	32°32'57.669"N	103°32'17.021"W	20.03	
11100.00†	62.303	176.622	11042.23	153.07	-152.80	9.02	786389.12	564421.60	32°32'56.891"N	103°32'16.973"W	20.03	
11200.00†	82.336	176.622	11072.45	247.86	-247.43	14.61	786394.71	564326.97	32°32'55.955"N	103°32'16.916"W	20.03	
11240.04	90.357	176.622	11075.00	287.79	-287.29	16.96	786397.06	564287.12	32°32'55.560"N	103°32'16.892"W	20.03	EOC
11300.00†	90.357	176.622	11074.63	347.75	-347.14	20.49	786400.59	564227.27	32°32'54.968"N	103°32'16.856"W	0.00	
11400.00†	90.357	176.622	11074.00	447.75	-446.97	26.38	786406.48	564127.44	32°32'53.980"N	103°32'16.796"W	0.00	
11500.00†	90.357	176.622	11073.38	547.74	-546.79	32.28	786412.38	564027.62	32°32'52.992"N	103°32'16.736"W	0.00	
11600.00†	90.357	176.622	11072.76	647.74	-646.62	38.17	786418.27	563927.80	32°32'52.003"N	103°32'16.676"W	0.00	
11700.00†	90.357	176.622	11072.14	747.74	-746.44	44.06	786424.16	563827.98	32°32'51.015"N	103°32'16.616"W	0.00	
11800.00†	90.357	176.622	11071.51	847.74	-846.26	49.96	786430.05	563728.16	32°32'50.027"N	103°32'16.556"W	0.00	
11900.00†	90.357	176.622	11070.89	947.74	-946.09	55.85	786435.95	563628.33	32°32'49.039"N	103°32'16.496"W	0.00	
12000.00†	90.357	176.622	11070.27	1047.73	-1045.91	61.74	786441.84	563528.51	32°32'48.051"N	103°32'16.436"W	0.00	
12100.00†	90.357	176.622	11069.64	1147.73	-1145.74	67.63	786447.73	563428.69	32°32'47.063"N	103°32'16.375"W	0.00	
12200.00†	90.357	176.622	11069.02	1247.73	-1245.56	73.53	786453.62	563328.87	32°32'46.075"N	103°32'16.315"W	0.00	
12300.00†	90.357	176.622	11068.40	1347.73	-1345.39	79.42	786459.52	563229.05	32°32'45.086"N	103°32'16.255"W	0.00	
12400.00†	90.357	176.622	11067.77	1447.73	-1445.21	85.31	786465.41	563129.22	32°32'44.098"N	103°32'16.195"W	0.00	
12500.00†	90.357	176.622	11067.15	1547.72	-1545.03	91.20	786471.30	563029.40	32°32'43.110"N	103°32'16.135"W	0.00	
12600.00†	90.357	176.622	11066.53	1647.72	-1644.86	97.10	786477.19	562929.58	32°32'42.122"N	103°32'16.075"W	0.00	
12700.00†	90.357	176.622	11065.90	1747.72	-1744.68	102.99	786483.09	562829.76	32°32'41.134"N	103°32'16.015"W	0.00	
12800.00†	90.357	176.622	11065.28	1847.72	-1844.51	108.88	786488.98	562729.94	32°32'40.146"N	103°32'15.955"W	0.00	
12900.00†	90.357	176.622	11064.66	1947.72	-1944.33	114.77	786494.87	562630.12	32°32'39.158"N	103°32'15.894"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 5 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hanson) Sec 26, T20S, R34E	Wellbore	No. 1H PWB
Facility	Hanson 26 Federal No.1H		

WELLPATH DATA (159 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
13000.00†	90.357	176.622	11064.04	2047.71	-2044.16	120.67	786500.76	562530.29	32°32'38.170"N	103°32'15.834"W	0.00	
13100.00†	90.357	176.622	11063.41	2147.71	-2143.98	126.56	786506.66	562430.47	32°32'37.181"N	103°32'15.774"W	0.00	
13200.00†	90.357	176.622	11062.79	2247.71	-2243.80	132.45	786512.55	562330.65	32°32'36.193"N	103°32'15.714"W	0.00	
13300.00†	90.357	176.622	11062.17	2347.71	-2343.63	138.35	786518.44	562230.83	32°32'35.205"N	103°32'15.654"W	0.00	
13400.00†	90.357	176.622	11061.54	2447.71	-2443.45	144.24	786524.33	562131.01	32°32'34.217"N	103°32'15.594"W	0.00	
13500.00†	90.357	176.622	11060.92	2547.70	-2543.28	150.13	786530.23	562031.18	32°32'33.229"N	103°32'15.534"W	0.00	
13600.00†	90.357	176.622	11060.30	2647.70	-2643.10	156.02	786536.12	561931.36	32°32'32.241"N	103°32'15.474"W	0.00	
13700.00†	90.357	176.622	11059.67	2747.70	-2742.93	161.92	786542.01	561831.54	32°32'31.253"N	103°32'15.413"W	0.00	
13800.00†	90.357	176.622	11059.05	2847.70	-2842.75	167.81	786547.90	561731.72	32°32'30.264"N	103°32'15.353"W	0.00	
13900.00†	90.357	176.622	11058.43	2947.70	-2942.57	173.70	786553.80	561631.90	32°32'29.276"N	103°32'15.293"W	0.00	
14000.00†	90.357	176.622	11057.80	3047.69	-3042.40	179.59	786559.69	561532.07	32°32'28.288"N	103°32'15.233"W	0.00	
14100.00†	90.357	176.622	11057.18	3147.69	-3142.22	185.49	786565.58	561432.25	32°32'27.300"N	103°32'15.173"W	0.00	
14200.00†	90.357	176.622	11056.56	3247.69	-3242.05	191.38	786571.47	561332.43	32°32'26.312"N	103°32'15.113"W	0.00	
14300.00†	90.357	176.622	11055.94	3347.69	-3341.87	197.27	786577.37	561232.61	32°32'25.324"N	103°32'15.053"W	0.00	
14400.00†	90.357	176.622	11055.31	3447.69	-3441.70	203.16	786583.26	561132.79	32°32'24.336"N	103°32'14.993"W	0.00	
14500.00†	90.357	176.622	11054.69	3547.68	-3541.52	209.06	786589.15	561032.97	32°32'23.348"N	103°32'14.932"W	0.00	
14600.00†	90.357	176.622	11054.07	3647.68	-3641.34	214.95	786595.04	560933.14	32°32'22.359"N	103°32'14.872"W	0.00	
14700.00†	90.357	176.622	11053.44	3747.68	-3741.17	220.84	786600.94	560833.32	32°32'21.371"N	103°32'14.812"W	0.00	
14800.00†	90.357	176.622	11052.82	3847.68	-3840.99	226.74	786606.83	560733.50	32°32'20.383"N	103°32'14.752"W	0.00	
14900.00†	90.357	176.622	11052.20	3947.68	-3940.82	232.63	786612.72	560633.68	32°32'19.395"N	103°32'14.692"W	0.00	
15000.00†	90.357	176.622	11051.57	4047.68	-4040.64	238.52	786618.62	560533.86	32°32'18.407"N	103°32'14.632"W	0.00	
15100.00†	90.357	176.622	11050.95	4147.67	-4140.47	244.41	786624.51	560434.03	32°32'17.419"N	103°32'14.572"W	0.00	
15200.00†	90.357	176.622	11050.33	4247.67	-4240.29	250.31	786630.40	560334.21	32°32'16.431"N	103°32'14.512"W	0.00	
15252.61	90.357	176.622	11050.00†	4300.28	-4292.80	253.41	786633.50	560281.70	32°32'15.911"N	103°32'14.480"W	0.00	No. 1H PBHL

HOLE & CASING SECTIONS - Ref Wellbore: No. 1H PWB Ref Wellpath: Rev-A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	5480.00	5480.00	0.00	5480.00	0.00	0.00	0.00	0.00
9.625in Casing	0.00	5480.00	5480.00	0.00	5480.00	0.00	0.00	0.00	0.00
8.75in Open Hole	5480.00	15252.61	9772.61	5480.00	11050.00	0.00	0.00	-4292.80	253.41
5.5in Casing	0.00	15252.61	15252.61	0.00	11050.00	0.00	0.00	-4292.80	253.41



Planned Wellpath Report

Rev-A.0
Page 6 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hanson) Sec 26, T20S, R34E	Wellbore	No. 1H PWB
Facility	Hanson 26 Federal No.1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Hanson 26 Federal No. 1H (Rev-0)	15252.61	11050.00	4292.80	253.41	786633.50	560281.70	32°32'15.91"N	103°32'14.48"W	point

SURVEY PROGRAM - Ref Wellbore: No. 1H PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15252.61	NaviTrak (Standard)		No. 1H PWB