

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

S

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
PO Box 140907; Irving, TX 75014-0907
3b. Phone No. (include area code)
972-401-3111
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 4080 FSL & 330 FEL Lat 1 BHL 4951 FSL & 330 FWL
1-16S-29E Lat 2 BHL 2971 FSL & 330 FWL

OCT 07 2008

OCD-ARTESIA

5. Lease Serial No.
LC-061622
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No.
County Line 1 Federal No. 3
9. API Well No.
30-015- 36621
10. Field and Pool, or Exploratory Area
Abo Wildcat
11. County or Parish, State
Eddy 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 SHL
	☒ 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 recompleting 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 recompleting 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.)

In order to eliminate the need to drill the County Line 1 Federal No. 4 well in the N2/Middle3 of 1-16S-29E, Cimarex sent in a Sundry Notice on 08-12-08 to drill dual laterals from a common SHL.

Cimarex now proposes to drill only one lateral from the SHL as shown below and on the attached drilling program changes.

Previous "Dual Laterals" Location

SHL 4080 FSL & 330 FEL
Lat 1 BHL 4951 FSL & 330 FWL
Lat 2 BHL 2971 FSL & 330 FWL

Proposed "Single Lateral" New Location

SHL 4080 FSL & 330 FEL
BHL 4080 FSL & 330 FWL

ACCEPTED FOR RECORD

OCT 7 2008

Access road will still be 534' long and will be on-lease. No ROW required.

Gerry Guye, Deputy Field Inspector
NMOCD-District II ARTESIA

Please see attached revised drilling plan, plats, and directional survey.

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

Zeno Farris

Signature

Zeno Farris

Title

Manager Operations Administration

Date

September 16, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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

APPROVED

OCT 4 2008

WESLEY W. INGRAM
PETROLEUM ENGINEER

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)

Revised Drilling Plan
County Line 1 Federal No. 3
 Cimarex Energy Co. of Colorado
 SHL 4080 FSL & 330 FEL
 BHL 4080 FSL & 330 FWL
 Eddy County, NM

Revised Drilling Plan (surface, intermediate, and pilot hole same as permitted)

TD
465
2650

Hole	Hole Size	Depth	Casing OD	Weight	Thread	Collar	Grade
Surface	17½"	0' to 340'	New 13¾"	48#	8-R	STC	H-40
Intermediate	12¼"	0' to 2500'	New 9⅝"	40#	8-R	LTC	J-55
Pilot Hole	8¾"	0' to 7600'	New 7"	26#	8-R	LTC	P-110
Lateral (to EOC)	6⅝"	6613' to 7020'	New 4½"	11.6#	8-R	BTC	P-110
Lateral (to TD)	6⅝"	7020' to 11464'	New 4½"	11.6#	8-R	LTC	P-110

Drill, case, and cement surface, intermediate, and pilot holes as permitted.

For **Lateral**, Set whipstock plug @ 6730'. Mill window from 6715' to 6725' and kick off 6⅝" hole at 6720'. Drill to TD of MD 11464', TVD 6945'. Install 4½" Peak Completion Assembly 11.6# P-110 **BTC** casing from Liner Hanger at 6613' to EOC at 7020' and **LTC** from 7020' to 11464'.

4½" liner will be PEAK completion liner and will not require cement.

Revised Mud Program (surface, intermediate, and pilot hole same as permitted)

Hole	Depth	Mud Wt	Visc	Fluid Loss	Type Mud
Surface	0' to 340'	8.4 - 8.6	28	NC	FW
Intermediate	340' to 2500'	10.0	30-32	NC	Brine water
Pilot Hole	2,500' to 7,600'	8.4 - 9.5	30-32	NC	FW, brine
Lateral 1	6,720' to 11,464'	9	28-32	May lose circ	2% KCl

Revised Drilling Plan
County Line 1 Federal No. 3
 Cimarex Energy Co. of Colorado
 SHL 4080 FSL & 330 FEL
 BHL 4080 FSL & 330 FWL
 Eddy County, NM

Revised Drilling Plan (surface, intermediate, and pilot hole same as permitted)

Hole	Hole Size	Depth	Casing OD	Weight	Thread	Collar	Grade
Surface	17½"	0' to 465 340'	New 13½"	48#	8-R	STC	H-40
Intermediate	12¼"	0' to 2650 2500'	New 9½"	40#	8-R	LTC	J-55
Pilot Hole	8¾"	0' to 7600'	New 7"	26#	8-R	LTC	P-110
Lateral (to EOC)	6⅝"	7100' to 7508'	New 4½"	11.6#	8-R	BTC	P-110
Lateral (to TD)	6⅝"	7508' to 11986'	New 4½"	11.6#	8-R	LTC	P-110

Drill, case, and cement surface, intermediate, and pilot holes as permitted.

For **Lateral**, Set whipstock plug @ 6730'. Mill window from 6715' to 6725' and kick off 6⅝" hole at 6720'. Drill to TD of MD 11464', TVD 6945'. Install 4½" Peak Completion Assembly 11.6# P-110 **BTC** casing from Liner Hanger at 6913' to EOC at 7073' and **LTC** from 7073' to 11464'.

4½" liner will be PEAK completion liner and will not require cement.

Revised Mud Program (surface, intermediate, and pilot hole same as permitted)

Hole	Depth	Mud Wt	Visc	Fluid Loss	Type Mud
Surface	0' to 465 340'	8.4 - 8.6	28	NC	FW
Intermediate	340' to 2650 2500'	10.0	30-32	NC	Brine water
Pilot Hole	2,500' to 7,600'	8.4 - 9.5	30-32	NC	FW, brine
Lateral 1	6,720' to 11,464'	9	28-32	May lose circ	2% KCl

DISTRICT I
1825 N. 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

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 October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 36849	Pool Name County Line Tank; Abo
Property Code	Property Name COUNTY LINE "1" FEDERAL	Well Number 3
GRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3783'

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 9	1	16 S	29 E		4080	SOUTH	330	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
LOT 12	1	16 S	29 E		4080	SOUTH	330	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No. NSL 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

BOTTOM HOLE LOCATION Lat - N32°57'16.69" Long - W104°02'08.69" NMSPEC- N 711160.776 E 632617.531 (NAD-83) SURFACE LOCATION Lat - N32°57'16.56" Long - W104°01'14.52" NMSPEC- N 711161.1 E 637233.0 (NAD-83) BHL 4080 FSL & 330 FWL P.P. 4080 FSL & 330 FEL SHL 4080 FSL & 330 FEL SCALE - 1" = 2000'	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 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> 09-16-08 Signature Date Zeno Farris Printed Name 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. JULY 27, 2008 Date Surveyed <i>Gary L. Jones</i> Signature Professional Surveyor W. B. Jones Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
--	---



Cimarex Energy Co. of Colorado

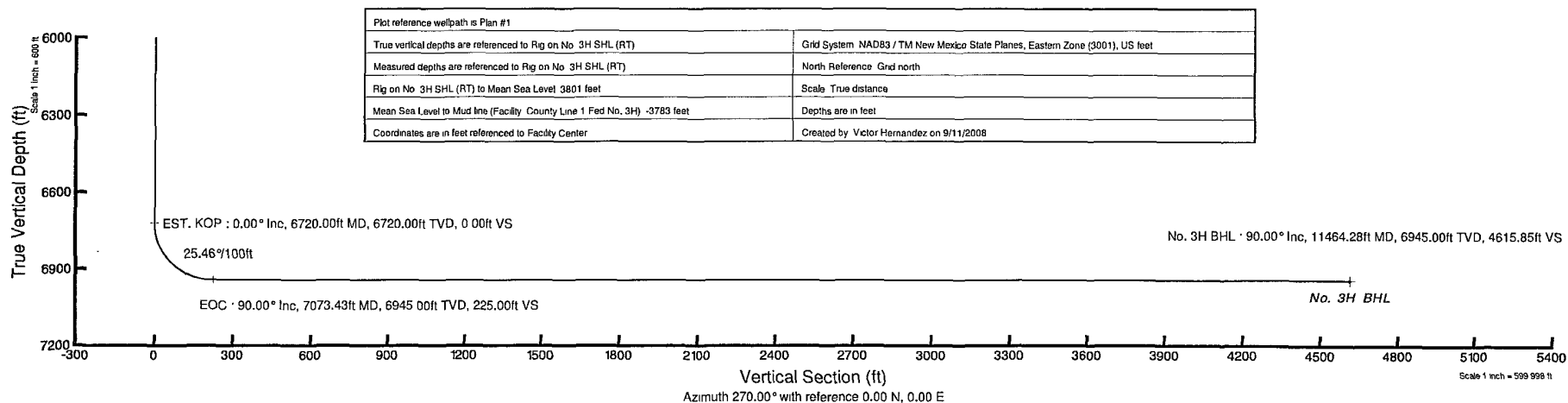
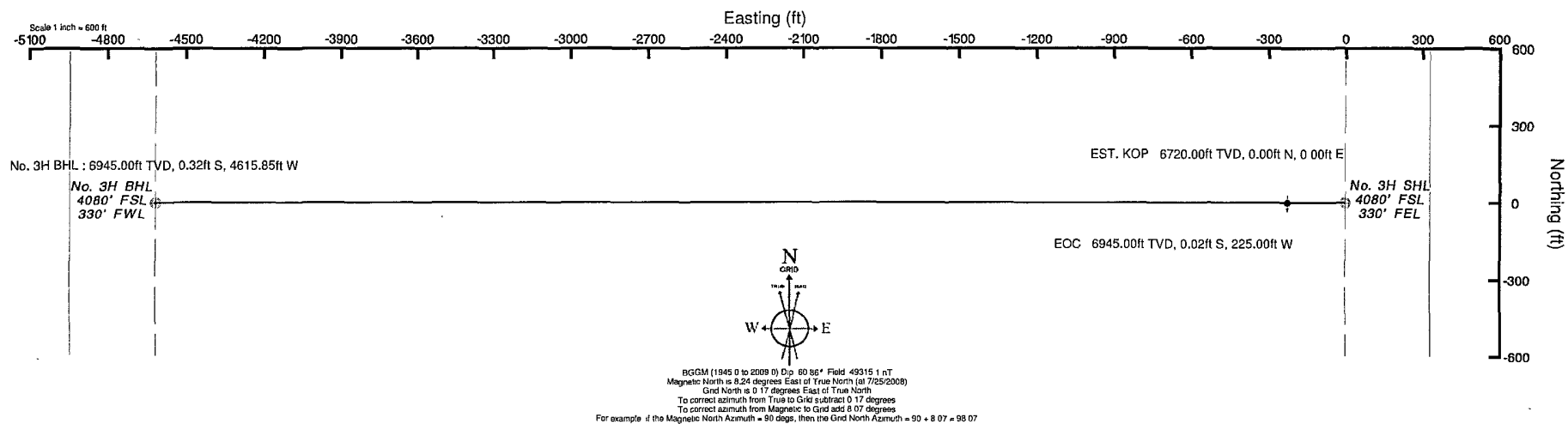
Location: Eddy County, NM
Field: (County) Sec. 1, T16S, R29E
Facility: County Line 1 Fed No. 3H

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	269.996	0.00	0.00	0.00	0.00	0.00
EST. KOP	6720.00	0.000	269.996	6720.00	0.00	0.00	0.00	0.00
EOC	7073.43	90.000	269.996	6945.00	-0.02	-225.00	25.46	225.00
No. 3H BHL	11464.28	90.000	269.996	6945.00	-0.32	-4615.85	0.00	4615.85





Planned Wellpath Report

Plan #1
Page 1 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(County) Sec. 1, T16S, R29E	Wellbore	No. 3H PWB
Facility	County Line 1 Fed No. 3H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.99992	Report Generated	9/11/2008 at 3:53:11 PM
Convergence at slot	0.17° East	Database/Source file	WA_Midland/No._3H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	637233.00	711161.10	32°57'16.560"N	104°01'14.518"W
Facility Reference Pt			637233.00	711161.10	32°57'16.560"N	104°01'14.518"W
Field Reference Pt			637234.90	710381.30	32°57'08.844"N	104°01'14.523"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 3H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 3H SHL (RT) to Mean Sea Level	3801.00ft
Vertical Reference Pt	Rig on No. 3H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	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	270.00°



Planned Wellpath Report

Plan #1
Page 2 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(County) Sec. 1, T16S, R29E	Wellbore	No. 3H PWB
Facility	County Line 1 Fed No. 3H		

WELLPATH DATA (51 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
0.00	0.000	269.996	0.00	0.00	0.00	0.00	637233.00	711161.10	0.00	Tie On
6720.00	0.000	269.996	6720.00	0.00	0.00	0.00	637233.00	711161.10	0.00	EST. KOP
6820.00†	25.465	269.996	6816.74	21.86	0.00	-21.86	637211.14	711161.10	25.46	
6920.00†	50.930	269.996	6894.68	83.19	-0.01	-83.19	637149.82	711161.09	25.46	
7020.00†	76.394	269.996	6938.69	172.07	-0.01	-172.07	637060.94	711161.09	25.46	
7073.43	90.000	269.996	6945.00	225.00	-0.02	-225.00	637008.02	711161.08	25.46	EOC
7120.00†	90.000	269.996	6945.00	271.57	-0.02	-271.57	636961.45	711161.08	0.00	
7220.00†	90.000	269.996	6945.00	371.57	-0.03	-371.57	636861.46	711161.07	0.00	
7320.00†	90.000	269.996	6945.00	471.57	-0.03	-471.57	636761.47	711161.07	0.00	
7420.00†	90.000	269.996	6945.00	571.57	-0.04	-571.57	636661.48	711161.06	0.00	
7520.00†	90.000	269.996	6945.00	671.57	-0.05	-671.57	636561.48	711161.05	0.00	
7620.00†	90.000	269.996	6945.00	771.57	-0.05	-771.57	636461.49	711161.05	0.00	
7720.00†	90.000	269.996	6945.00	871.57	-0.06	-871.57	636361.50	711161.04	0.00	
7820.00†	90.000	269.996	6945.00	971.57	-0.07	-971.57	636261.51	711161.03	0.00	
7920.00†	90.000	269.996	6945.00	1071.57	-0.08	-1071.57	636161.52	711161.02	0.00	
8020.00†	90.000	269.996	6945.00	1171.57	-0.08	-1171.57	636061.53	711161.02	0.00	
8120.00†	90.000	269.996	6945.00	1271.57	-0.09	-1271.57	635961.53	711161.01	0.00	
8220.00†	90.000	269.996	6945.00	1371.57	-0.10	-1371.57	635861.54	711161.00	0.00	
8320.00†	90.000	269.996	6945.00	1471.57	-0.10	-1471.57	635761.55	711161.00	0.00	
8420.00†	90.000	269.996	6945.00	1571.57	-0.11	-1571.57	635661.56	711160.99	0.00	
8520.00†	90.000	269.996	6945.00	1671.57	-0.12	-1671.57	635561.57	711160.98	0.00	
8620.00†	90.000	269.996	6945.00	1771.57	-0.12	-1771.57	635461.58	711160.98	0.00	
8720.00†	90.000	269.996	6945.00	1871.57	-0.13	-1871.57	635361.58	711160.97	0.00	
8820.00†	90.000	269.996	6945.00	1971.57	-0.14	-1971.57	635261.59	711160.96	0.00	
8920.00†	90.000	269.996	6945.00	2071.57	-0.15	-2071.57	635161.60	711160.95	0.00	
9020.00†	90.000	269.996	6945.00	2171.57	-0.15	-2171.57	635061.61	711160.95	0.00	
9120.00†	90.000	269.996	6945.00	2271.57	-0.16	-2271.57	634961.62	711160.94	0.00	
9220.00†	90.000	269.996	6945.00	2371.57	-0.17	-2371.57	634861.62	711160.93	0.00	
9320.00†	90.000	269.996	6945.00	2471.57	-0.17	-2471.57	634761.63	711160.93	0.00	
9420.00†	90.000	269.996	6945.00	2571.57	-0.18	-2571.57	634661.64	711160.92	0.00	



Planned Wellpath Report

Plan #1
Page 3 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(County) Sec. 1, T16S, R29E	Wellbore	No. 3H PWB
Facility	County Line 1 Fed No. 3H		

WELLPATH DATA (51 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
9520.00†	90.000	269.996	6945.00	2671.57	-0.19	-2671.57	634561.65	711160.91	0.00	
9620.00†	90.000	269.996	6945.00	2771.57	-0.19	-2771.57	634461.66	711160.91	0.00	
9720.00†	90.000	269.996	6945.00	2871.57	-0.20	-2871.57	634361.67	711160.90	0.00	
9820.00†	90.000	269.996	6945.00	2971.57	-0.21	-2971.57	634261.67	711160.89	0.00	
9920.00†	90.000	269.996	6945.00	3071.57	-0.22	-3071.57	634161.68	711160.88	0.00	
10020.00†	90.000	269.996	6945.00	3171.57	-0.22	-3171.57	634061.69	711160.88	0.00	
10120.00†	90.000	269.996	6945.00	3271.57	-0.23	-3271.57	633961.70	711160.87	0.00	
10220.00†	90.000	269.996	6945.00	3371.57	-0.24	-3371.57	633861.71	711160.86	0.00	
10320.00†	90.000	269.996	6945.00	3471.57	-0.24	-3471.57	633761.72	711160.86	0.00	
10420.00†	90.000	269.996	6945.00	3571.57	-0.25	-3571.57	633661.72	711160.85	0.00	
10520.00†	90.000	269.996	6945.00	3671.57	-0.26	-3671.57	633561.73	711160.84	0.00	
10620.00†	90.000	269.996	6945.00	3771.57	-0.26	-3771.57	633461.74	711160.84	0.00	
10720.00†	90.000	269.996	6945.00	3871.57	-0.27	-3871.57	633361.75	711160.83	0.00	
10820.00†	90.000	269.996	6945.00	3971.57	-0.28	-3971.57	633261.76	711160.82	0.00	
10920.00†	90.000	269.996	6945.00	4071.57	-0.29	-4071.57	633161.76	711160.81	0.00	
11020.00†	90.000	269.996	6945.00	4171.57	-0.29	-4171.57	633061.77	711160.81	0.00	
11120.00†	90.000	269.996	6945.00	4271.57	-0.30	-4271.57	632961.78	711160.80	0.00	
11220.00†	90.000	269.996	6945.00	4371.57	-0.31	-4371.57	632861.79	711160.79	0.00	
11320.00†	90.000	269.996	6945.00	4471.57	-0.31	-4471.57	632761.80	711160.79	0.00	
11420.00†	90.000	269.996	6945.00	4571.57	-0.32	-4571.57	632661.81	711160.78	0.00	
11464.28	90.000	269.996	6945.00	4615.85	-0.32	-4615.85	632617.53	711160.78	0.00	No. 3H BHL



Planned Wellpath Report

Plan #1
Page 4 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(County) Sec. 1, T16S, R29E	Wellbore	No. 3H PWB
Facility	County Line 1 Fed No. 3H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 3H BHL	11464.28	6945.00	-0.32	-4615.85	632617.53	711160.78	32°57'16.689"N	104°02'08.687"W	point

SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Plan #1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	11464.28	NaviTrak (Standard)		No. 3H PWB