

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 86210

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

Form C-102  
Revised October 12, 2005

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-005-29055</b>	Pool Code <b>✓</b>	Pool Name Abo Wildcat
Property Code <b>37375</b>	Property Name MONTEREY "23" STATE COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 4369'

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	23	15 S	31 E		375	NORTH	575	EAST	CHAVES

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
D	23	15 S	31 E		375	NORTH	375	WEST	CHAVES

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160		C	

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

			<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Zeno Farris</i> 09-05-08 Signature Date</p> <p>Zeno Farris Printed Name</p>		
<p>BHL 375 FNL &amp; 375 FWL      P.P. 375 FNL &amp; 575 FEL      SHL 375 FNL &amp; 575 FEL</p>			<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>SEPTEMBER 4, 2008 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature Professional Surveyor</p> <p> 7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>		



# Planned Wellpath Report

Preliminary

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30-005-29055 INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Monterey) Sec 23, T15S, R31E	Wellbore	No. 1H PWB
Facility	Monterey 23 State Com No. 1H		

## 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	0.999941	Report Generated	9/5/2008 at 8:28:29 AM
Convergence at slot	0.30° East	Database/Source file	WA_Midland/No. 1H_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	709251.20	730772.20	33°00'27.691"N	103°47'08.101"W
Facility Reference Pt			709251.20	730772.20	33°00'27.691"N	103°47'08.101"W
Field Reference Pt			709251.20	730772.20	33°00'27.691"N	103°47'08.101"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	4387.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.48°



# Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Monterey) Sec 23, T15S, R31E	Wellbore	No. 1H PWB
Facility	Monterey 23 State Com No. 1H		

WELLPATH DATA (49 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	269.476	0.00	0.00	0.00	0.00	709251.20	730772.20	0.00	Tie On
8425.00	0.000	269.476	8425.00	0.00	0.00	0.00	709251.20	730772.20	0.00	EST. KOP
8525.00†	19.099	269.476	8523.16	16.51	-0.15	-16.51	709234.69	730772.05	19.10	
8625.00†	38.197	269.476	8610.51	64.23	-0.59	-64.23	709186.97	730771.61	19.10	
8725.00†	57.296	269.476	8677.44	137.91	-1.26	-137.90	709113.31	730770.94	19.10	
8825.00†	76.394	269.476	8716.58	229.43	-2.10	-229.42	709021.80	730770.10	19.10	
8895.13	89.787	269.476	8725.00	298.89	-2.73	-298.87	708952.34	730769.47	19.10	EOC
8925.00†	89.787	269.476	8725.11	328.76	-3.01	-328.75	708922.47	730769.19	0.00	
9025.00†	89.787	269.476	8725.48	428.76	-3.92	-428.74	708822.48	730768.28	0.00	
9125.00†	89.787	269.476	8725.85	528.76	-4.83	-528.74	708722.50	730767.37	0.00	
9225.00†	89.787	269.476	8726.23	628.76	-5.75	-628.73	708622.51	730766.45	0.00	
9325.00†	89.787	269.476	8726.60	728.76	-6.66	-728.73	708522.52	730765.54	0.00	
9425.00†	89.787	269.476	8726.97	828.76	-7.58	-828.72	708422.53	730764.62	0.00	
9525.00†	89.787	269.476	8727.34	928.76	-8.49	-928.72	708322.54	730763.71	0.00	
9625.00†	89.787	269.476	8727.71	1028.76	-9.41	-1028.71	708222.55	730762.79	0.00	
9725.00†	89.787	269.476	8728.08	1128.75	-10.32	-1128.71	708122.56	730761.88	0.00	
9825.00†	89.787	269.476	8728.46	1228.75	-11.24	-1228.70	708022.57	730760.97	0.00	
9925.00†	89.787	269.476	8728.83	1328.75	-12.15	-1328.70	707922.58	730760.05	0.00	
10025.00†	89.787	269.476	8729.20	1428.75	-13.06	-1428.69	707822.59	730759.14	0.00	
10125.00†	89.787	269.476	8729.57	1528.75	-13.98	-1528.69	707722.60	730758.22	0.00	
10225.00†	89.787	269.476	8729.94	1628.75	-14.89	-1628.68	707622.62	730757.31	0.00	
10325.00†	89.787	269.476	8730.31	1728.75	-15.81	-1728.68	707522.63	730756.39	0.00	
10425.00†	89.787	269.476	8730.69	1828.75	-16.72	-1828.67	707422.64	730755.48	0.00	
10525.00†	89.787	269.476	8731.06	1928.75	-17.64	-1928.67	707322.65	730754.57	0.00	
10625.00†	89.787	269.476	8731.43	2028.75	-18.55	-2028.66	707222.66	730753.65	0.00	
10725.00†	89.787	269.476	8731.80	2128.75	-19.46	-2128.66	707122.67	730752.74	0.00	
10825.00†	89.787	269.476	8732.17	2228.75	-20.38	-2228.65	707022.68	730751.82	0.00	
10925.00†	89.787	269.476	8732.54	2328.75	-21.29	-2328.65	706922.69	730750.91	0.00	
11025.00†	89.787	269.476	8732.92	2428.75	-22.21	-2428.64	706822.70	730749.99	0.00	
11125.00†	89.787	269.476	8733.29	2528.74	-23.12	-2528.64	706722.71	730749.08	0.00	



# Planned Wellpath Report

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Monterey) Sec 23, T15S, R31E	Wellbore	No. 1H PWB
Facility	Monterey 23 State Com No. 1H		

## WELLPATH DATA (49 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
11225.00†	89.787	269.476	8733.66	2628.74	-24.04	-2628.63	706622.73	730748.17	0.00	
11325.00†	89.787	269.476	8734.03	2728.74	-24.95	-2728.63	706522.74	730747.25	0.00	
11425.00†	89.787	269.476	8734.40	2828.74	-25.86	-2828.62	706422.75	730746.34	0.00	
11525.00†	89.787	269.476	8734.77	2928.74	-26.78	-2928.62	706322.76	730745.42	0.00	
11625.00†	89.787	269.476	8735.15	3028.74	-27.69	-3028.61	706222.77	730744.51	0.00	
11725.00†	89.787	269.476	8735.52	3128.74	-28.61	-3128.61	706122.78	730743.59	0.00	
11825.00†	89.787	269.476	8735.89	3228.74	-29.52	-3228.61	706022.79	730742.68	0.00	
11925.00†	89.787	269.476	8736.26	3328.74	-30.44	-3328.60	705922.80	730741.77	0.00	
12025.00†	89.787	269.476	8736.63	3428.74	-31.35	-3428.60	705822.81	730740.85	0.00	
12125.00†	89.787	269.476	8737.00	3528.74	-32.26	-3528.59	705722.82	730739.94	0.00	
12225.00†	89.787	269.476	8737.38	3628.74	-33.18	-3628.59	705622.83	730739.02	0.00	
12325.00†	89.787	269.476	8737.75	3728.74	-34.09	-3728.58	705522.85	730738.11	0.00	
12425.00†	89.787	269.476	8738.12	3828.74	-35.01	-3828.58	705422.86	730737.19	0.00	
12525.00†	89.787	269.476	8738.49	3928.74	-35.92	-3928.57	705322.87	730736.28	0.00	
12625.00†	89.787	269.476	8738.86	4028.73	-36.84	-4028.57	705222.88	730735.37	0.00	
12725.00†	89.787	269.476	8739.23	4128.73	-37.75	-4128.56	705122.89	730734.45	0.00	
12825.00†	89.787	269.476	8739.61	4228.73	-38.67	-4228.56	705022.90	730733.54	0.00	
12925.00†	89.787	269.476	8739.98	4328.73	-39.58	-4328.55	704922.91	730732.62	0.00	
12931.23	89.787	269.476	8740.00 <sup>1</sup>	4334.96	-39.64	-4334.78	704916.68	730732.57	0.00	No 1H BHL



# Planned Wellpath Report

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Monterey) Sec 23, T15S, R31E	Wellbore	No. 1H PWB
Facility	Monterey 23 State Com No. 1H		

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H BHL	12931.23	8740.00	-39.64	-4334.78	704916.68	730732.57	33°00'27.519"N	103°47'59.004"W	point

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	12931.23	NaviTrak (Standard)		No. 1H PWB

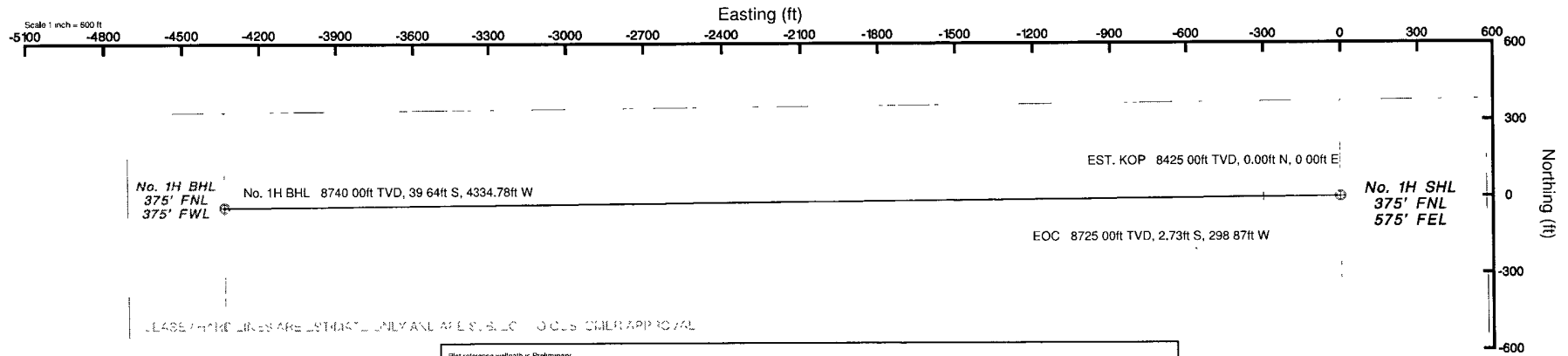


# Cimarex Energy Co. of Colorado

Location: Chaves County, NM Slot: No. 1H SHL  
 Field: (Monterey) Sec 23, T15S, R31E Well: No. 1H  
 Facility: Monterey 23 State Com No. 1H Wellbore: No. 1H PWB

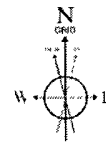
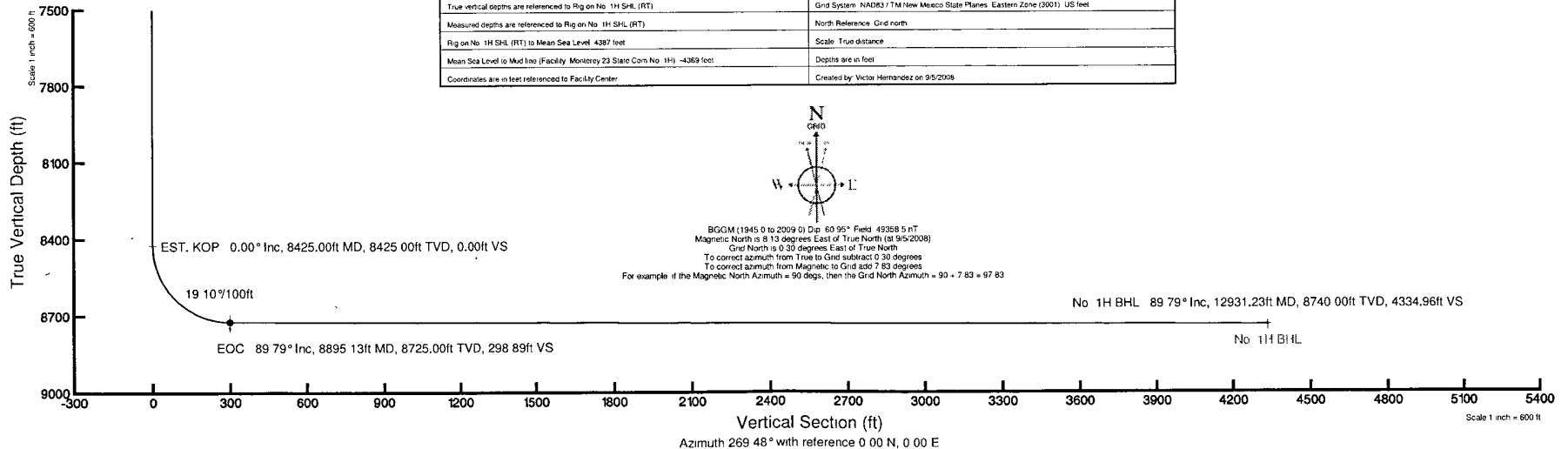


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%/100ft)	VS (ft)
Tie On	0.00	0.000	269.476	0.00	0.00	0.00	0.00	0.00
EST. KOP	8425.00	0.000	269.476	8425.00	0.00	0.00	0.00	0.00
EOC	8895.13	89.787	269.476	8725.00	-2.73	-298.87	19.10	298.89
No. 1H BHL	12931.23	89.787	269.476	8740.00	-39.64	-4334.78	0.00	4334.96



PLEASE NOTE: THESE LINES ARE EXTRACTED FROM AN AMEREN, S.L.C. LOGS UNDER APPROVAL

Not reference wellpath is Preliminary	
True vertical depths are referenced to Rig on No. 1H SHL (RT)	Grid System: NAD83 / TM New Mexico State Planes - Eastern Zone (2001) US feet
Measured depths are referenced to Rig on No. 1H SHL (RT)	North Reference: Grid north
Rig on No. 1H SHL (RT) to Mean Sea Level: 4387 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Monterey 23 State Com No. 1H): -4369 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by: Victor Hernandez on 9/5/2008



BGGM (1945.0 to 2009.0) Dip: 69.95° Field: 49368.5 mT  
 Magnetic North is 8.13 degrees East of True North (8/9/2008)  
 Grid North is 0.30 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.30 degrees  
 To correct azimuth from Magnetic to Grid add 7.83 degrees  
 For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.83 = 97.83

Azimuth 269.48° with reference 0.00 N, 0.00 E