

DISTRICT I
1425 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

OCT 08 2008
AMENDED REPORT
OCD-ARTESIA

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36691	Pool Code 97482	Pool Name Glorieta-Yeso Wildcat
Property Code 37418	Property Name BOWSER "32" STATE	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3606'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	16 S	29 E		360	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
M	32	16 S	29 E		360	SOUTH	330	WEST	EDDY

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

BHL 360 FSL & 330 FWL P.P. Glorieta 360 FNL & 337 FEL P.P. Paddock 360 FNL & 347 FEL SHL 360 FNL & 330 FEL BOTTOM HOLE LOCATION Lat - N32°52'18.80" Long - W104°08'18.27" NMSPOE - N 581002.790 E 611587.517 (NAD-83) SURFACE LOCATION Lat - N32°52'18.71" Long - W104°05'22.11" NMSPOE - N 581004.0 E 616207.0 (NAD-83) 330' 360' 4620.6' BO-2175-0017	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>Natalie Krueger</i> 10-02-08 Signature Date Natalie Krueger 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. SEPTEMBER 4, 2008 Date Surveyed Signature of Gary L. Jones Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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Cimarex Energy Co. of Colorado

5215 North O'Connor Blvd. ♦ Suite 1500 ♦ Irving, TX 75039 ♦ (972) 401-3111 ♦ Fax (972) 443-6486

Mailing Address: P.O. Box 140907 ♦ Irving, TX 75014-0907

A subsidiary of Cimarex Energy Co. ♦ A NYSE Listed Company ♦ "XEC"

October 2, 2008

Oil Conservation Division
District II Office
1301 W. Grand Ave.
Artesia, New Mexico 88210
Attn: Ms. Kimberly Wilson

Re: Statewide Rule 118
Hydrogen Sulfide Gas Contingency Plan
Proposed Bowser 32 State No. 1 Well

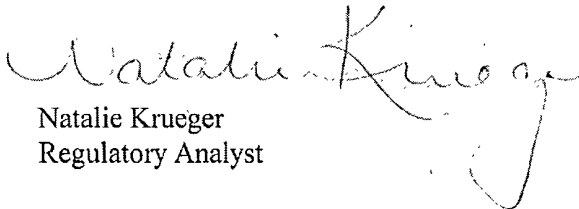
Dear Ms. Wilson:

In accordance with NMAC 19.15.3.118 C. (1) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Cimarex Energy Co. of Colorado does not anticipate that there will be enough H₂S from the surface to the Glorieta-Yeso formations to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Bowser 32 State No. 1
32-16S-29E
SHL 360 FSL & 330 FEL
BHL 360 FSL & 330 FWL
Eddy County, NM

If anything further is needed regarding this issue, or if you have any questions, please feel free to contact the undersigned at 469-420-2723.

Yours truly,

A handwritten signature in cursive script, reading "Natalie Krueger". The signature is written in dark ink and is positioned above the printed name and title.

Natalie Krueger
Regulatory Analyst

Application to Drill
Bowser 32 State No. 1
Cimarex Energy Co. of Colorado
Unit P, Section 32
T16S-R29E, Eddy County, NM

- 1 Location: SHL 360 FSL & 330 FEL
 BHL 360 FSL & 330 FWL

- 2 Elevation above sea level: 3,606 GR

- 3 Geologic name of surface formation: Quaternary Alluvium Deposits

- 4 Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

- 5 Proposed drilling depth: Pilot Hole 4300' TD MD 8491' TD TVD 4000'

- 6 Estimated tops of geological markers:

Yates	1,350'
Glorieta	3,740'
Paddock	3,800'
Blinberry	4,620'

- 7 Possible mineral bearing formation:

Glorieta	Oil
Paddock	Oil
Blinberry	Oil

8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 430'	8.4 - 8.6	28	NC	FW
430' to 1,350'	10	40-45	NC	Brine
1,350' to 4,300'	8.4 - 9.1	30-32	NC	FW, Brine
KOP 3700' to 8,491'	9	28-32	May lose circ	2% KCl

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Proposed drilling Plan

Drill pilot hole to 4300.' Set casing and cement. Set whipstock plug and mill window from 3695' to 3705.'
Drill 4¾" lateral from KOP 3700' to TD @ MD 8491' and TVD 4000.' Install 2½" tubing as a Peak Completion Assembly, no cement required.

Penetration Point Glorieta: (TVD 3740') 360 FSL & 337 FEL

Penetration Point Paddock: (TVD 3800') 360 FNL & 347 FEL

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Bowser 32 State No. 1
Cimarex Energy Co. of Colorado
Unit P, Section 32
T16S-R29E, Eddy County, NM

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BHL 360 FSL & 330 FWL
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Penetration Point Glorieta: (TVD 3740') 360 FSL & 337 FEL

Penetration Point Paddock: (TVD 3800') 360 FNL & 347 FEL



Cimarex Energy Co. of Colorado

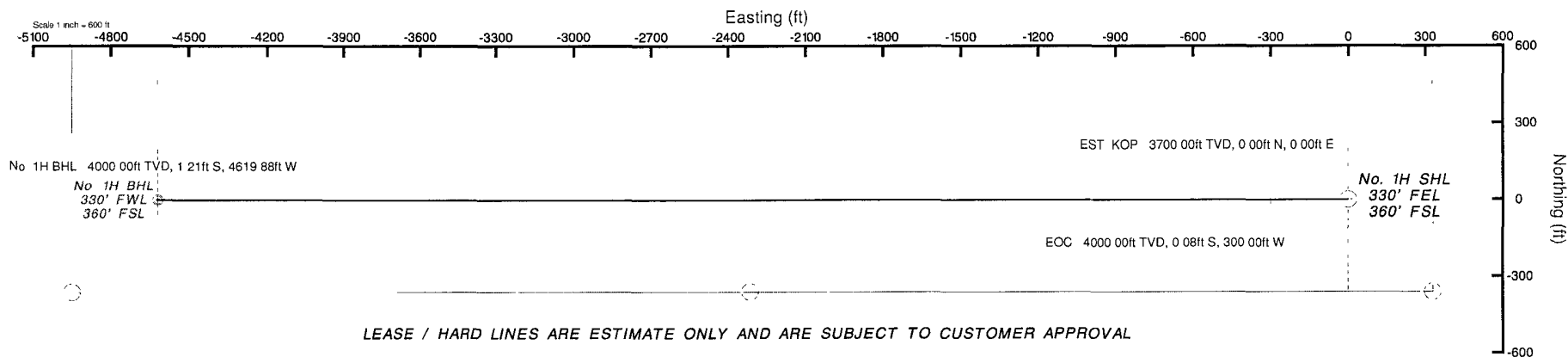
Location: Eddy County, NM
Field: (Bowser) Sec 32, T16S, R29E
Facility: Bowser 32 St No. 1H

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



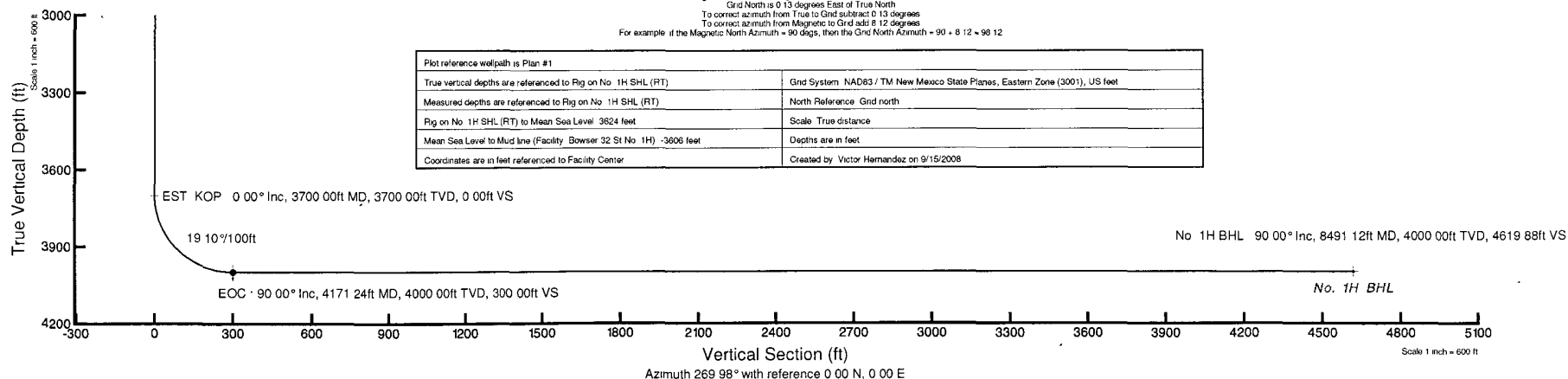
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%/100ft)	VS (ft)
Tie On	0.00	0.000	269.985	0.00	0.00	0.00	0.00	0.00
EST KOP	3700.00	0.000	269.985	3700.00	0.00	0.00	0.00	0.00
EOC	4171.24	90.000	269.985	4000.00	-0.08	-300.00	19.10	300.00
No. 1H BHL	8491.12	90.000	269.985	4000.00	-1.21	-4619.88	0.00	4619.88



BGGM (1945.0 to 2009.0) Dip 60.77° Field 49268.8 nT
Magnetic North is 8.25 degrees East of True North (at 9/15/2008)
Grid North is 0.13 degrees East of True North
To correct azimuth from True to Grid subtract 0.13 degrees
To correct azimuth from Magnetic to Grid add 8.12 degrees
For example if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 8.12 = 98.12

Plot reference wellpath is Plan #1	
True vertical depths are referenced to Rig on No. 1H SHL (RT)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), 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: 3624 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Bowser 32 St No. 1H): -3606 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by: Victor Hernandez on 9/15/2008





Planned Wellpath Report

Plan #1
Page 1 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Bowser) Sec 32, T16S, R29E	Wellbore	No. 1H PWB
Facility	Bowser 32 St 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	0.999916	Report Generated	9/15/2008 at 3:43:28 PM
Convergence at slot	0.13° 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	616207.00	681004.00	32°52'18.708"N	104°05'22.107"W
Facility Reference Pt			616207.00	681004.00	32°52'18.708"N	104°05'22.107"W
Field Reference Pt			616207.00	681004.00	32°52'18.708"N	104°05'22.107"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	3624.00ft
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	269.98°



Planned Wellpath Report

Plan #1
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Facility	Bowser 32 St No. 1H		

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	269.985	0.00	0.00	0.00	0.00	616207.00	681004.00	0.00	Tie On
3700.00	0.000	269.985	3700.00	0.00	0.00	0.00	616207.00	681004.00	0.00	EST. KOP
3800.00†	19.099	269.985	3798.16	16.51	0.00	-16.51	616190.49	681004.00	19.10	
3900.00†	38.197	269.985	3885.51	64.23	-0.02	-64.23	616142.77	681003.98	19.10	
4000.00†	57.296	269.985	3952.44	137.91	-0.04	-137.91	616069.10	681003.96	19.10	
4100.00†	76.394	269.985	3991.58	229.43	-0.06	-229.43	615977.59	681003.94	19.10	
4171.24	90.000	269.985	4000.00	300.00	-0.08	-300.00	615907.03	681003.92	19.10	EOC
4200.00†	90.000	269.985	4000.00	328.76	-0.09	-328.76	615878.27	681003.91	0.00	
4300.00†	90.000	269.985	4000.00	428.76	-0.11	-428.76	615778.28	681003.89	0.00	
4400.00†	90.000	269.985	4000.00	528.76	-0.14	-528.76	615678.28	681003.86	0.00	
4500.00†	90.000	269.985	4000.00	628.76	-0.16	-628.76	615578.29	681003.84	0.00	
4600.00†	90.000	269.985	4000.00	728.76	-0.19	-728.76	615478.30	681003.81	0.00	
4700.00†	90.000	269.985	4000.00	828.76	-0.22	-828.76	615378.31	681003.78	0.00	
4800.00†	90.000	269.985	4000.00	928.76	-0.24	-928.76	615278.32	681003.76	0.00	
4900.00†	90.000	269.985	4000.00	1028.76	-0.27	-1028.76	615178.33	681003.73	0.00	
5000.00†	90.000	269.985	4000.00	1128.76	-0.30	-1128.76	615078.34	681003.70	0.00	
5100.00†	90.000	269.985	4000.00	1228.76	-0.32	-1228.76	614978.35	681003.68	0.00	
5200.00†	90.000	269.985	4000.00	1328.76	-0.35	-1328.76	614878.35	681003.65	0.00	
5300.00†	90.000	269.985	4000.00	1428.76	-0.37	-1428.76	614778.36	681003.63	0.00	
5400.00†	90.000	269.985	4000.00	1528.76	-0.40	-1528.76	614678.37	681003.60	0.00	
5500.00†	90.000	269.985	4000.00	1628.76	-0.43	-1628.76	614578.38	681003.57	0.00	
5600.00†	90.000	269.985	4000.00	1728.76	-0.45	-1728.76	614478.39	681003.55	0.00	
5700.00†	90.000	269.985	4000.00	1828.76	-0.48	-1828.76	614378.40	681003.52	0.00	
5800.00†	90.000	269.985	4000.00	1928.76	-0.51	-1928.76	614278.41	681003.49	0.00	
5900.00†	90.000	269.985	4000.00	2028.76	-0.53	-2028.76	614178.41	681003.47	0.00	
6000.00†	90.000	269.985	4000.00	2128.76	-0.56	-2128.76	614078.42	681003.44	0.00	
6100.00†	90.000	269.985	4000.00	2228.76	-0.58	-2228.76	613978.43	681003.42	0.00	
6200.00†	90.000	269.985	4000.00	2328.76	-0.61	-2328.76	613878.44	681003.39	0.00	
6300.00†	90.000	269.985	4000.00	2428.76	-0.64	-2428.76	613778.45	681003.36	0.00	
6400.00†	90.000	269.985	4000.00	2528.76	-0.66	-2528.76	613678.46	681003.34	0.00	



Planned Wellpath Report

Plan #1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co. of Colorado	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Bowser) Sec 32, T16S, R29E	Wellbore	No. 1H PWB
Facility	Bowser 32 St No. 1H		

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
6500.00†	90.000	269.985	4000.00	2628.76	-0.69	-2628.76	613578.47	681003.31	0.00	
6600.00†	90.000	269.985	4000.00	2728.76	-0.71	-2728.76	613478.47	681003.29	0.00	
6700.00†	90.000	269.985	4000.00	2828.76	-0.74	-2828.76	613378.48	681003.26	0.00	
6800.00†	90.000	269.985	4000.00	2928.76	-0.77	-2928.76	613278.49	681003.23	0.00	
6900.00†	90.000	269.985	4000.00	3028.76	-0.79	-3028.76	613178.50	681003.21	0.00	
7000.00†	90.000	269.985	4000.00	3128.76	-0.82	-3128.76	613078.51	681003.18	0.00	
7100.00†	90.000	269.985	4000.00	3228.76	-0.85	-3228.76	612978.52	681003.15	0.00	
7200.00†	90.000	269.985	4000.00	3328.76	-0.87	-3328.76	612878.53	681003.13	0.00	
7300.00†	90.000	269.985	4000.00	3428.76	-0.90	-3428.76	612778.54	681003.10	0.00	
7400.00†	90.000	269.985	4000.00	3528.76	-0.92	-3528.76	612678.54	681003.08	0.00	
7500.00†	90.000	269.985	4000.00	3628.76	-0.95	-3628.76	612578.55	681003.05	0.00	
7600.00†	90.000	269.985	4000.00	3728.76	-0.98	-3728.76	612478.56	681003.02	0.00	
7700.00†	90.000	269.985	4000.00	3828.76	-1.00	-3828.76	612378.57	681003.00	0.00	
7800.00†	90.000	269.985	4000.00	3928.76	-1.03	-3928.76	612278.58	681002.97	0.00	
7900.00†	90.000	269.985	4000.00	4028.76	-1.06	-4028.76	612178.59	681002.94	0.00	
8000.00†	90.000	269.985	4000.00	4128.76	-1.08	-4128.76	612078.60	681002.92	0.00	
8100.00†	90.000	269.985	4000.00	4228.76	-1.11	-4228.76	611978.60	681002.89	0.00	
8200.00†	90.000	269.985	4000.00	4328.76	-1.13	-4328.76	611878.61	681002.87	0.00	
8300.00†	90.000	269.985	4000.00	4428.76	-1.16	-4428.76	611778.62	681002.84	0.00	
8400.00†	90.000	269.985	4000.00	4528.76	-1.19	-4528.76	611678.63	681002.81	0.00	
8491.12	90.000	269.985	4000.00†	4619.88	-1.21	-4619.88	611587.52	681002.79	0.00	No. 1H BHL



Planned Wellpath Report

Plan #1
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INTEQ

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Facility	Bowser 32 St 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	8491.12	4000.00	-1.21	-4619.88	611587.52	681002.79	32°52'18.799"N	104°06'16.273"W	point

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	8491.12	NaviTrak (Standard)		No. 1H PWB