

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

OCD-ARTESIA

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) 432-570-7800
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL 760 FNL & 2080 FEL 3-19S-30E BHL 330 FSL & 330 FEL	

5. Lease Serial No. NM-29228	RECEIVED JAN 29 2010 NMOC D ARTESIA
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA/Agreement, Name and/or No.	
8. Well Name and No. Benson 3 Federal No. 1	
9. API Well No. 30-015-25718	
10. Field and Pool, or Exploratory Area Lea; Bone Spring, S	
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 <u>Change</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 has changed the BHL for the Benson 3 Federal No. 1 Bone Spring Recompleat as follows:

Permitted Location

SHL 760 FNL & 2080 FEL
BHL 330 FSL & 330 FEL
3-19S-30E

New Proposed Location

SHL 760 FNL & 2080 FEL
BHL 330 FSL & 1980 FEL
3-19S-30E

New KOP is 8359' and EOC is 8659.' 2 1/2" 6.5# L-80 PEAK completion liner will be set from 8259' to TD @ 12664.' No cement.

Please see attached revised plat and preliminary survey.

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

Natalie Krueger

Signature

Natalie Krueger

Title

Regulatory

Date

January 5, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

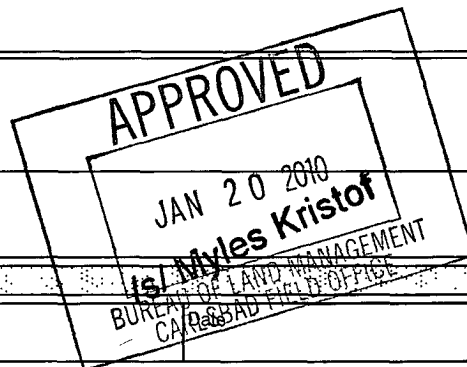
Title

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

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
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1600 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 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

¹ API Number 30-015-25718	¹ Pool Code 37920	¹ Pool Name Leo; Bone Spring, South
¹ Property Code	¹ Property Name Benson 3 Federal	¹ Well Number 001
² OGRID No. 162683	² Operator Name CIMAREX ENERGY CO. OF COLORADO	² Elevation 3447' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	3	19S	30E		760	North	2080	East	Eddy

¹¹ 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
O	3	19S	30E		330	South	1980	East	Eddy

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code P	¹⁵ Order No.
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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.

16	¹⁷ 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 an undivided 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. <u>Zeno Farris</u> 1/5/2010 Signature Date Zeno Farris Printed Name ¹⁸ 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 of Survey Signature and Seal of Professional Surveyor Certificate Number
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Cimarex Energy Co.

Location: Eddy County, NM
Field: (Benson) Hackberry
Facility: Benson 3 Fed No. 1H

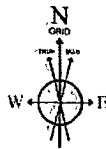
Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



INTEQ

Well Profile Data

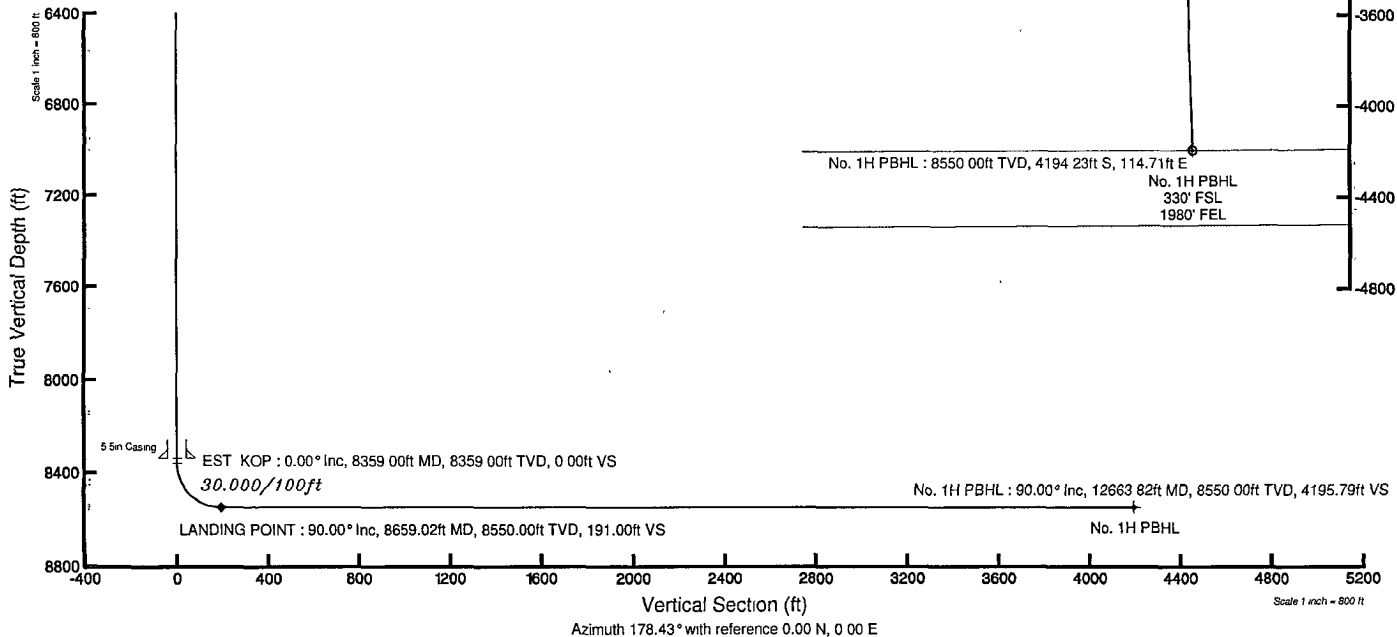
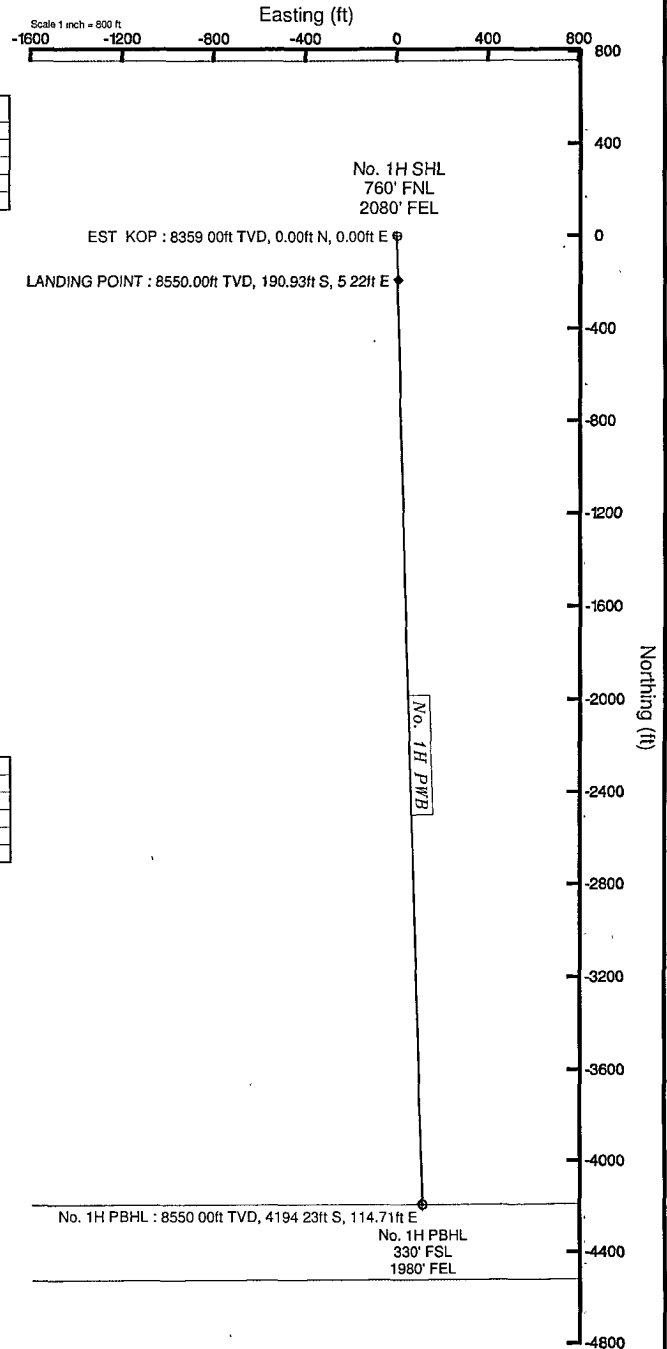
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	178.433	0.00	0.00	0.00	0.00	0.00
EST KOP	8359.00	0.000	178.433	8359.00	0.00	0.00	0.00	0.00
LANDING POINT	8659.02	90.000	178.433	8550.00	-190.93	5.22	30.00	191.00
No. 1H PBHL	12663.82	90.000	178.433	8550.00	-4194.23	114.71	0.00	4195.79



BGGM (1945.0 to 2011.0) Dip 60.61° Field 49065.3 nT
Magnetic North is 8.03 degrees East of True North (at 12/15/2009)
Grid North is 0.20 degrees East of True North
To correct azimuth from True to Grid subtract 0.20 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

Plot reference wellpath vs. Position

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 3464 feet	Scale: True distance
Mean Sea Level to Mud line (Facility Benson 3 Fed No. 1H) -3447 feet	Depths are in feet
Coordinates are in feet referenced to Surface Location	Created by Victor Hernandez on 12/30/2009





Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Benson) Hackberry	Wellbore	No. 1H PWB
Facility	Benson 3 Fed 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	0.999924	Report Generated	12/30/2009 at 3:47:24 PM
Convergence at slot	0.20° 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	656803.50	616599.00	32°41'40.243"N	103°57'28.772"W
Facility Reference Pt			656803.50	616599.00	32°41'40.243"N	103°57'28.772"W
Field Reference Pt			656803.50	616599.00	32°41'40.243"N	103°57'28.772"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to GL	17.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 1H SHL (RT) to Mean Sea Level	3464.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	GL 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	178.43°



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REFERENCE WELLPATH IDENTIFICATION			
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Area	Eddy County, NM	Well	No. 1H
Field	(Benson) Hackberry	Wellbore	No. 1H PWB
Facility	Benson 3 Fed No. 1H		

WELLPATH DATA (47 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	178.433	0.00	0.00	0.00	0.00	0.00	Tie On
8359.00	0.000	178.433	8359.00	0.00	0.00	0.00	0.00	EST. KOP
8459.00†	29.998	178.433	8454.49	25.59	-25.58	0.70	30.00	
8559.00†	59.996	178.433	8524.40	95.49	-95.45	2.61	30.00	
8659.00†	89.993	178.433	8550.00	190.98	-190.91	5.22	30.00	
8659.02	90.000	178.433	8550.00	191.00	-190.93	5.22	30.00	LANDING POINT
8759.00†	90.000	178.433	8550.00	290.98	-290.87	7.96	0.00	
8859.00†	90.000	178.433	8550.00	390.98	-390.83	10.69	0.00	
8959.00†	90.000	178.433	8550.00	490.98	-490.79	13.42	0.00	
9059.00†	90.000	178.433	8550.00	590.98	-590.76	16.16	0.00	
9159.00†	90.000	178.433	8550.00	690.98	-690.72	18.89	0.00	
9259.00†	90.000	178.433	8550.00	790.98	-790.68	21.62	0.00	
9359.00†	90.000	178.433	8550.00	890.98	-890.64	24.36	0.00	
9459.00†	90.000	178.433	8550.00	990.98	-990.61	27.09	0.00	
9559.00†	90.000	178.433	8550.00	1090.98	-1090.57	29.83	0.00	
9659.00†	90.000	178.433	8550.00	1190.98	-1190.53	32.56	0.00	
9759.00†	90.000	178.433	8550.00	1290.98	-1290.50	35.29	0.00	
9859.00†	90.000	178.433	8550.00	1390.98	-1390.46	38.03	0.00	
9959.00†	90.000	178.433	8550.00	1490.98	-1490.42	40.76	0.00	
10059.00†	90.000	178.433	8550.00	1590.98	-1590.38	43.50	0.00	
10159.00†	90.000	178.433	8550.00	1690.98	-1690.35	46.23	0.00	
10259.00†	90.000	178.433	8550.00	1790.98	-1790.31	48.96	0.00	
10359.00†	90.000	178.433	8550.00	1890.98	-1890.27	51.70	0.00	
10459.00†	90.000	178.433	8550.00	1990.98	-1990.23	54.43	0.00	
10559.00†	90.000	178.433	8550.00	2090.98	-2090.20	57.17	0.00	
10659.00†	90.000	178.433	8550.00	2190.98	-2190.16	59.90	0.00	
10759.00†	90.000	178.433	8550.00	2290.98	-2290.12	62.63	0.00	
10859.00†	90.000	178.433	8550.00	2390.98	-2390.08	65.37	0.00	
10959.00†	90.000	178.433	8550.00	2490.98	-2490.05	68.10	0.00	
11059.00†	90.000	178.433	8550.00	2590.98	-2590.01	70.83	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Benson) Hackberry	Wellbore	No. 1H PWB
Facility	Benson 3 Fed No. 1H		

WELLPATH DATA (47 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11159.00†	90.000	178.433	8550.00	2690.98	-2689.97	73.57	0.00	
11259.00†	90.000	178.433	8550.00	2790.98	-2789.93	76.30	0.00	
11359.00†	90.000	178.433	8550.00	2890.98	-2889.90	79.04	0.00	
11459.00†	90.000	178.433	8550.00	2990.98	-2989.86	81.77	0.00	
11559.00†	90.000	178.433	8550.00	3090.98	-3089.82	84.50	0.00	
11659.00†	90.000	178.433	8550.00	3190.98	-3189.79	87.24	0.00	
11759.00†	90.000	178.433	8550.00	3290.98	-3289.75	89.97	0.00	
11859.00†	90.000	178.433	8550.00	3390.98	-3389.71	92.71	0.00	
11959.00†	90.000	178.433	8550.00	3490.98	-3489.67	95.44	0.00	
12059.00†	90.000	178.433	8550.00	3590.98	-3589.64	98.17	0.00	
12159.00†	90.000	178.433	8550.00	3690.98	-3689.60	100.91	0.00	
12259.00†	90.000	178.433	8550.00	3790.98	-3789.56	103.64	0.00	
12359.00†	90.000	178.433	8550.00	3890.98	-3889.52	106.38	0.00	
12459.00†	90.000	178.433	8550.00	3990.98	-3989.49	109.11	0.00	
12559.00†	90.000	178.433	8550.00	4090.98	-4089.45	111.84	0.00	
12659.00†	90.000	178.433	8550.00	4190.98	-4189.41	114.58	0.00	
12663.82	90.000	178.433	8550.00†	4195.79	-4194.23	114.71	0.00	No. 1H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_4

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]
5.5in Casing	0.00	8340.00	8340.00	0.00	8340.00	0.00	0.00	0.00	0.00
4.75in Open Hole	8340.00	12663.82	4323.82	8340.00	8550.00	0.00	0.00	-4194.23	114.71



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Benson) Hackberry	Wellbore	No. 1H PWB
Facility	Benson 3 Fed 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 PBHL	12663.82	8550.00	-4194.23	114.71	656918.20	612405.10	32°40'58.740"N	103°57'27.604"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_4				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	12663.82	NaviTrak (Standard)		No. 1H PWB