

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No
SHL NM-0560353, BHL LC-063613

6 If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No
Pending

8. Well Name and No.
Crescent Hale 1 Federal Com No. 1

9. API Well No
30-015-37652

10 Field and Pool, or Exploratory Area
Undesignated Bone Spring

11 County or Parish, State
Eddy County, NM

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)
432-571-7800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 330 FNL & 330 FWL 1-19S-30E
BHL 660 FNL & 330 FEL

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 BHL
	☒ 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 recomplete 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 recompletion 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.)

Due to the existing of a producing well in NENE, Cimarex has shortened its lateral on the Crescent Hale 1 Fed Com 1 to include only the N2NW and NWNE of 1-19S-30E. Please see changes below.

Permitted Location
SHL 330 FNL & 330 FWL
BHL 660 FNL & 330 FEL
1-19S-30E

Proposed Location
SHL 330 FNL & 330 FWL
BHL 660 FNL & 1650 FEL
1-19S-30E
Eddy County, NM

Eddy County, NM
and Intermediate

Per Zeno Farris 4/13/10 CRW

After drilling and setting surface casing, drill to vertical TD 8950' and log. Set 7" casing to 8510' and cross over to 2 3/4" 2000 psi U fiberglass tubing underneath to 8950' and cement in place. Drill out of the bottom of the 7" with a 6 1/2" bit and through cement and fiberglass tubing to KOP @ 8570' and kick off to drill the lateral. The fiberglass tubing effectively circulates cement to surface and plugs back the open hole. Drill to lateral TD (11994' MD, 8730' TVD). Run 4 1/2" PEAK liner from RSB packer @ 8410' to TD @ 11994'. Request a 100' tieback for lateral casing string in order to be able to set the pump as deep as possible.

Please see attached revised C-102 and preliminary directional survey.

See Original COA

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Zeno Farris

Signature

Zeno Farris

Title

Manager Operations Administration

Date

March 18, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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

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)

APPROVED

APR 15 2010

s/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

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 is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Natalie Krueger
Signature

4/6/2010
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.

NOVEMBER 06, 2009

Date Surveyed

Signature of
Professional Surveyor

A circular professional seal for a surveyor in the State of New Mexico. The outer ring contains the text "STATE OF NEW MEXICO" at the top and "Professional Surveyor" at the bottom. Inside the ring, the name "GARY L. JONES" is written in a large, stylized script. Below the name, the number "29858" is printed. At the very bottom of the seal, the year "1977" is printed. The seal is stamped over the signature line of the Surveyor Certification section.

Certificate No. Gary L. Jones

7977

BASIN SURVEYS



Cimarex Energy Co.

Location: Eddy County, NM
Field: (Crescent) Sec 1, T19S, R30E
Facility: Crescent Hale 1 Fed Com No. 1H

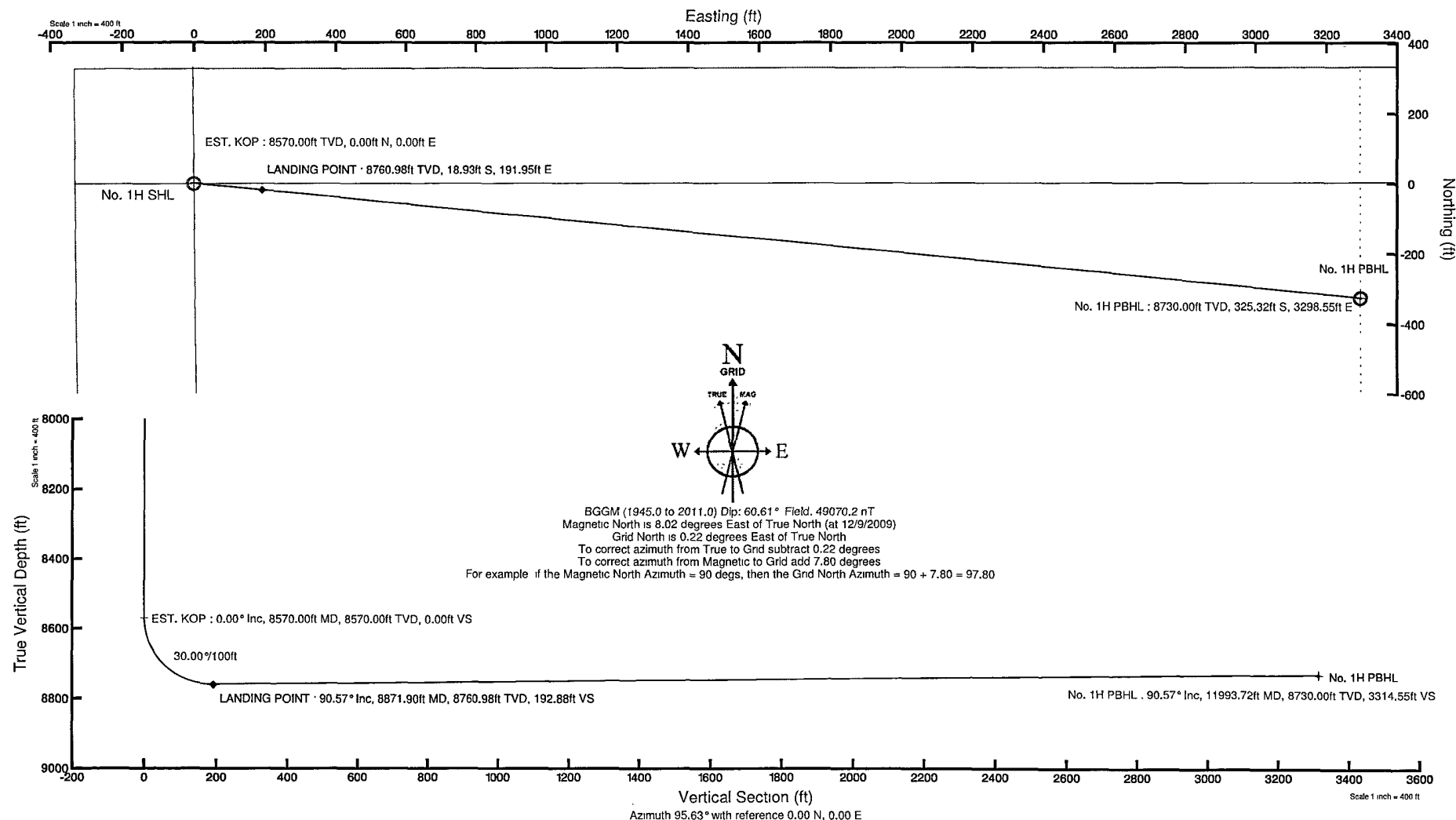
Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB

Plot reference wellpath is Profile_2	Grid System: NAD83 / TM New Mexico State Planes: Eastern Zone (2011) US feet
True vertical depths are referenced to Rig on No. 1H SHL (RT)	North Reference: Grid north
Measured depths are referenced to Rig on No. 1H SHL (RT)	Scale: True distance
Rig on No. 1H SHL (RT) to Mean Sea Level: 3515 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: Crescent Hale 1 Fed Com No. 1H) -3515 feet	Created by: Victor Hernandez on 2/22/2010
Coordinates are in feet referenced to Facility Center	



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	95.633	0.00	0.00	0.00	0.00	0.00
EST. KOP	8570.00	0.000	95.633	8570.00	0.00	0.00	0.00	0.00
LANDING POINT	8871.90	90.569	95.633	8760.98	-18.93	191.95	30.00	192.88
No. 1H PBHL	11993.72	90.569	95.633	8730.00	-325.32	3298.55	0.00	3314.55





Planned Wellpath Report

Prelim_2
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Crescent) Sec 1, T19S, R30E	Wellbore	No. 1H PWB
Facility	Crescent Hale 1 Fed 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	0.999926	Report Generated	2/22/2010 at 5:06:52 PM
Convergence at slot	0.22° 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	664493.70	617076.00	32°41'44.685"N	103°55'58.760"W
Facility Reference Pt			664493.70	617076.00	32°41'44.685"N	103°55'58.760"W
Field Reference Pt			664708.10	613101.90	32°41'05.353"N	103°55'56.426"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (RT) to Mean Sea Level	3515.00ft
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	95.63°



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
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Field	(Crescent) Sec 1, T19S, R30E	Wellbore	No. 1H PWB
Facility	Crescent Hale 1 Fed Com No. 1H		

WELLPATH DATA (38 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]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	95.633	0.00	0.00	0.00	0.00	664493.70	617076.00	32°41'44.685"N	103°55'58.760"W	0.00	Tie On
8570.00	0.000	95.633	8570.00	0.00	0.00	0.00	664493.70	617076.00	32°41'44.685"N	103°55'58.760"W	0.00	EST. KOP
8670.00†	30.000	95.633	8665.49	25.59	-2.51	25.46	664519.16	617073.49	32°41'44.659"N	103°55'58.462"W	30.00	
8770.00†	60.000	95.633	8735.40	95.49	-9.37	95.03	664588.72	617066.63	32°41'44.589"N	103°55'57.648"W	30.00	
8870.00†	90.000	95.633	8760.99	190.99	-18.75	190.06	664683.75	617057.26	32°41'44.492"N	103°55'56.536"W	30.00	
8871.90	90.569	95.633	8760.98	192.88	-18.93	191.95	664685.64	617057.07	32°41'44.490"N	103°55'56.514"W	30.00	LANDING POINT
8970.00†	90.569	95.633	8760.00	290.98	-28.56	289.58	664783.25	617047.44	32°41'44.391"N	103°55'55.372"W	0.00	
9070.00†	90.569	95.633	8759.01	390.98	-38.37	389.09	664882.76	617037.63	32°41'44.291"N	103°55'54.208"W	0.00	
9170.00†	90.569	95.633	8758.02	490.97	-48.19	488.60	664982.26	617027.81	32°41'44.190"N	103°55'53.044"W	0.00	
9270.00†	90.569	95.633	8757.03	590.97	-58.00	588.11	665081.77	617018.00	32°41'44.089"N	103°55'51.880"W	0.00	
9370.00†	90.569	95.633	8756.03	690.96	-67.82	687.63	665181.27	617008.19	32°41'43.988"N	103°55'50.716"W	0.00	
9470.00†	90.569	95.633	8755.04	790.96	-77.63	787.14	665280.78	616998.37	32°41'43.887"N	103°55'49.552"W	0.00	
9570.00†	90.569	95.633	8754.05	890.95	-87.45	886.65	665380.28	616988.56	32°41'43.786"N	103°55'48.388"W	0.00	
9670.00†	90.569	95.633	8753.06	990.95	-97.26	986.16	665479.79	616978.75	32°41'43.685"N	103°55'47.224"W	0.00	
9770.00†	90.569	95.633	8752.07	1090.94	-107.08	1085.67	665579.29	616968.93	32°41'43.585"N	103°55'46.060"W	0.00	
9870.00†	90.569	95.633	8751.07	1190.94	-116.89	1185.19	665678.80	616959.12	32°41'43.484"N	103°55'44.896"W	0.00	
9970.00†	90.569	95.633	8750.08	1290.93	-126.71	1284.70	665778.30	616949.30	32°41'43.383"N	103°55'43.732"W	0.00	
10070.00†	90.569	95.633	8749.09	1390.93	-136.52	1384.21	665877.81	616939.49	32°41'43.282"N	103°55'42.568"W	0.00	
10170.00†	90.569	95.633	8748.10	1490.92	-146.33	1483.72	665977.31	616929.68	32°41'43.181"N	103°55'41.404"W	0.00	
10270.00†	90.569	95.633	8747.10	1590.92	-156.15	1583.24	666076.82	616919.86	32°41'43.080"N	103°55'40.240"W	0.00	
10370.00†	90.569	95.633	8746.11	1690.91	-165.96	1682.75	666176.32	616910.05	32°41'42.979"N	103°55'39.077"W	0.00	
10470.00†	90.569	95.633	8745.12	1790.91	-175.78	1782.26	666275.83	616900.24	32°41'42.879"N	103°55'37.913"W	0.00	
10570.00†	90.569	95.633	8744.13	1890.90	-185.59	1881.77	666375.33	616890.42	32°41'42.778"N	103°55'36.749"W	0.00	
10670.00†	90.569	95.633	8743.13	1990.90	-195.41	1981.28	666474.83	616880.61	32°41'42.677"N	103°55'35.585"W	0.00	
10770.00†	90.569	95.633	8742.14	2090.89	-205.22	2080.80	666574.34	616870.79	32°41'42.576"N	103°55'34.421"W	0.00	
10870.00†	90.569	95.633	8741.15	2190.89	-215.04	2180.31	666673.84	616860.98	32°41'42.475"N	103°55'33.257"W	0.00	
10970.00†	90.569	95.633	8740.16	2290.88	-224.85	2279.82	666773.35	616851.17	32°41'42.374"N	103°55'32.093"W	0.00	
11070.00†	90.569	95.633	8739.17	2390.88	-234.67	2379.33	666872.85	616841.35	32°41'42.273"N	103°55'30.929"W	0.00	
11170.00†	90.569	95.633	8738.17	2490.87	-244.48	2478.85	666972.36	616831.54	32°41'42.172"N	103°55'29.765"W	0.00	
11270.00†	90.569	95.633	8737.18	2590.87	-254.29	2578.36	667071.86	616821.72	32°41'42.071"N	103°55'28.601"W	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	(Crescent) Sec 1, T19S, R30E	Wellbore	No. 1H PWB
Facility	Crescent Hale 1 Fed Com No. 1H		

WELLPATH DATA (38 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]	Latitude	Longitude	DLS [°/100ft]	Comments
11370.00†	90.569	95.633	8736.19	2690.86	-264.11	2677.87	667171.37	616811.91	32°41'41.971"N	103°55'27.437"W	0.00	
11470.00†	90.569	95.633	8735.20	2790.86	-273.92	2777.38	667270.87	616802.10	32°41'41.870"N	103°55'26.273"W	0.00	
11570.00†	90.569	95.633	8734.20	2890.85	-283.74	2876.89	667370.38	616792.28	32°41'41.769"N	103°55'25.109"W	0.00	
11670.00†	90.569	95.633	8733.21	2990.85	-293.55	2976.41	667469.88	616782.47	32°41'41.668"N	103°55'23.945"W	0.00	
11770.00†	90.569	95.633	8732.22	3090.84	-303.37	3075.92	667569.39	616772.66	32°41'41.567"N	103°55'22.781"W	0.00	
11870.00†	90.569	95.633	8731.23	3190.84	-313.18	3175.43	667668.89	616762.84	32°41'41.466"N	103°55'21.617"W	0.00	
11970.00†	90.569	95.633	8730.24	3290.83	-323.00	3274.94	667768.40	616753.03	32°41'41.365"N	103°55'20.453"W	0.00	
11993.72	90.569	95.633	8730.00†	3314.55	-325.32	3298.55	667792.00	616750.70	32°41'41.341"N	103°55'20.177"W	0.00	No. 1H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_2

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]
6.125in Open Hole	8570.00	11993.72	3423.72	8570.00	8730.00	0.00	0.00	-325.32	3298.55

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	11993.72	8730.00	-325.32	3298.55	667792.00	616750.70	32°41'41.341"N	103°55'20.177"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	11993.72	NaviTrak (Standard)		No. 1H PWB