

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

RM

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL 1133 FSL & 990 FEL 10-17S-30E
BHL 990 FSL & 2310 FEL

RECEIVED

OCT 13 2009

NMOC D ARTESIA

3b. Phone No. (include area code)

432-471-7800

5. Lease Serial No.

NM-074937

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Hydrus 10 Federal No. 8

9. API Well No.

30-015-36546

10. Field and Pool, or Exploratory Area

Loco Hills; Glorieta-Yeso

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

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other Change location

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.)

In order to penetrate more of the reservoir, Cimarex has decided to move the SHL back to the original permitted location with a new BHL.

Previous Location (per Sundry Notice dated 12-31-08)

10-17S-30E

1175 FSL & 1650 FEL

Eddy County, NM

New Location

10-17S-30E

SHL 710 FSL & 1650 FEL

BHL 330 FSL & 2310 FEL

Eddy County, NM

No ROW required for the access road to this location. Location has been arched (NMCRIS No. 110898). Please see attached revised drilling plan, plats, and preliminary directional survey.

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

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Regulatory

Date

September 24, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Don Peterson

Title

Office

CARLSBAD FIELD OFFICE

Date OCT - 6 2009

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)

Revised Drilling Plan
Hydrus 10 Federal No. 8

10-17S-30E

SHL 1133' FSL & 990' FEL, BHL 990' FSL & 2310' FEL
710' 1133' 990' 2310'
Eddy County, NM

Drilling Plan Changes

Surface and intermediate drilling/casing/cementing plans are same as permitted. Drill 7 $\frac{7}{8}$ " hole to 3900' and kick off for constant angle slant hole to TD @ 6136' MD, 6000' TVD. Set 5 $\frac{1}{2}$ " 15.5# J-55 LTC production casing to 4500' (instead of permitted 6000') and cement as shown below.

Cementing Changes

Cement for surface and intermediate casing remains same as permitted.

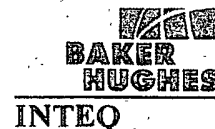
Production casing to be cemented with Lead 450 sx Class H + 0.1% HR-800 + 0.125# Poly-e-flake + 5# Gilsonite (wt 11.5, yld 2.8) and Tail 20 sx Permian Basin Super H + 0.5% Halad-344 + 0.25# D-AIR 3000 + 0.4% CFR-3 + 1# Salt + 0.125# Poly-e-flake + 0.25% HR-800 + 5# Gilsonite (wt 13.2, yld 1.61).
TOC 900.'



Cimarex Energy Co.

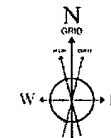
Location: Eddy County, NM
Field: (Hydrus) Sec 10, T17S, R30E
Facility: Hydrus 10 Fed No. 8

Slot: No. 8 SHL
Well: No. 8
Wellbore: No. 8 PWB

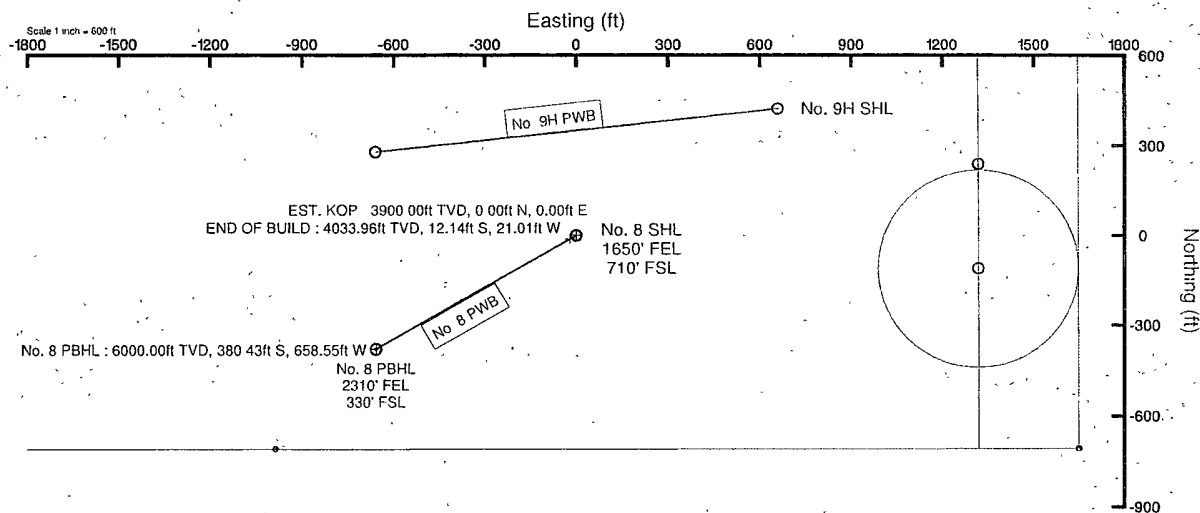
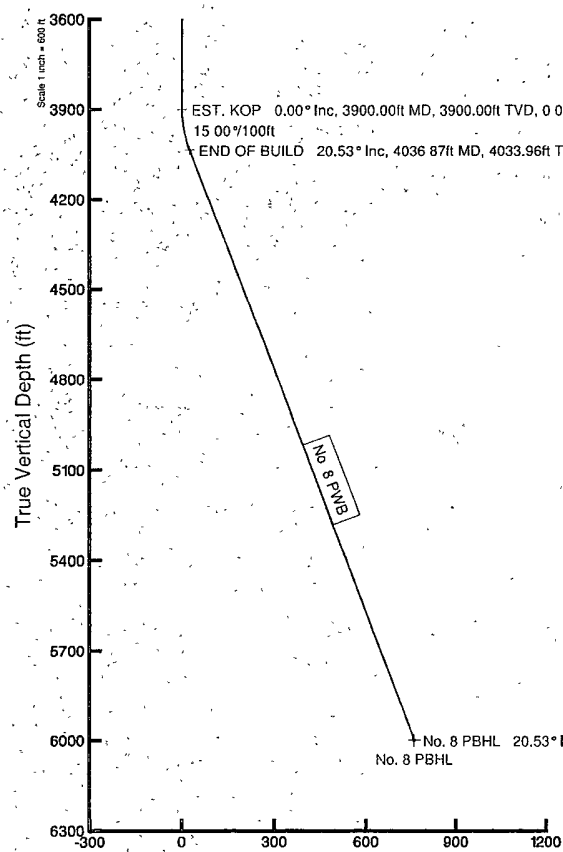


Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%/100ft)	VS (ft)
Tie On	0.00	0.000	239.986	0.00	0.00	0.00	0.00	0.00
EST. KOP	3900.00	0.000	239.986	3900.00	0.00	0.00	0.00	0.00
END OF BUILD	4036.87	20.531	239.986	4033.96	-12.14	-21.01	15.00	24.26
No. 8 PBHL	6136.25	20.531	239.986	6000.00	-380.43	-658.55	0.00	760.54



BGGM (1945 0 to 2011 0) Dip: 60.75° Field: 491.76 nT
Magnetic North is 8.07 degrees East of True North (at 9/16/2009)
Grid North is 9.20 degrees East of True North
To correct azimuth from True to Grid subtract 0.20 degrees
To correct azimuth from Magnetic to Grid add 7.87 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.87 = 97.87



Plot reference wellpath is Preliminary	
True vertical depths are referenced to Rig on No. 8 SHL (RT)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 8 SHL (RT)	North Reference: Grid north
Rig on No. 8 SHL (RT) to Mean Sea Level: 3706 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Hydrus 10 Fed No. 8): -3706 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by: Victor Hernandez on 9/16/2009



Planned Wellpath Report

Preliminary

Page 1 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 8 SHL
Area	Eddy County, NM	Well	No. 8
Field	(Hydrus) Sec 10, T17S, R30E	Wellbore	No. 8 PWB
Facility	Hydrus 10 Fed No. 8		

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	9/16/2009 at 3:43:14 PM
Convergence at slot	0.20° East	Database/Source file	WA_Midland/No. 8_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	657054.40	670879.30	32°50'37.337"N	103°57'23.575"W
Facility Reference Pt			657054.40	670879.30	32°50'37.337"N	103°57'23.575"W
Field Reference Pt			658374.74	670729.93	32°50'35.813"N	103°57'08.105"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 8 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 8 SHL (RT) to Mean Sea Level	3706.00ft
Vertical Reference Pt	Rig on No. 8 SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 8 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	239.99°



Planned Wellpath Report

Preliminary

Page 2 of 3



INTEQ

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Facility	Hydrus 10 Fed No. 8		

WELLPATH DATA (26 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	239.986	0.00	0.00	0.00	0.00	657054.40	670879.30	0.00	Tie On
3900.00	0.000	239.986	3900.00	0.00	0.00	0.00	657054.40	670879.30	0.00	EST KOP
4000.00†	15.000	239.986	3998.86	13.02	-6.51	-11.27	657043.13	670872.79	15.00	
4036.87	20.531	239.986	4033.96	24.26	-12.14	-21.01	657033.39	670867.17	15.00	END OF BUILD
4100.00†	20.531	239.986	4093.08	46.40	-23.21	-40.18	657014.22	670856.09	0.00	
4200.00†	20.531	239.986	4186.73	81.47	-40.75	-70.55	656983.86	670838.55	0.00	
4300.00†	20.531	239.986	4280.38	116.54	-58.30	-100.92	656953.49	670821.01	0.00	
4400.00†	20.531	239.986	4374.03	151.61	-75.84	-131.28	656923.13	670803.47	0.00	
4500.00†	20.531	239.986	4467.67	186.69	-93.38	-161.65	656892.76	670785.93	0.00	
4600.00†	20.531	239.986	4561.32	221.76	-110.93	-192.02	656862.40	670768.38	0.00	
4700.00†	20.531	239.986	4654.97	256.83	-128.47	-222.39	656832.03	670750.84	0.00	
4800.00†	20.531	239.986	4748.62	291.90	-146.01	-252.76	656801.66	670733.30	0.00	
4900.00†	20.531	239.986	4842.27	326.97	-163.55	-283.12	656771.30	670715.76	0.00	
5000.00†	20.531	239.986	4935.92	362.04	-181.10	-313.49	656740.93	670698.22	0.00	
5100.00†	20.531	239.986	5029.56	397.11	-198.64	-343.86	656710.57	670680.68	0.00	
5200.00†	20.531	239.986	5123.21	432.18	-216.18	-374.23	656680.20	670663.13	0.00	
5300.00†	20.531	239.986	5216.86	467.25	-233.73	-404.60	656649.84	670645.59	0.00	
5400.00†	20.531	239.986	5310.51	502.32	-251.27	-434.96	656619.47	670628.05	0.00	
5500.00†	20.531	239.986	5404.16	537.40	-268.81	-465.33	656589.10	670610.51	0.00	
5600.00†	20.531	239.986	5497.81	572.47	-286.35	-495.70	656558.74	670592.97	0.00	
5700.00†	20.531	239.986	5591.45	607.54	-303.90	-526.07	656528.37	670575.43	0.00	
5800.00†	20.531	239.986	5685.10	642.61	-321.44	-556.44	656498.01	670557.88	0.00	
5900.00†	20.531	239.986	5778.75	677.68	-338.98	-586.80	656467.64	670540.34	0.00	
6000.00†	20.531	239.986	5872.40	712.75	-356.53	-617.17	656437.27	670522.80	0.00	
6100.00†	20.531	239.986	5966.05	747.82	-374.07	-647.54	656406.91	670505.26	0.00	
6136.25	20.531	239.986	6000.00†	760.54	-380.43	-658.55	656395.90	670498.90	0.00	No. 8 PBHL



Planned Wellpath Report

Preliminary

Page 3 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 8 SHL
Area	Eddy County, NM	Well	No. 8
Field	(Hydrus) Sec 10, T17S, R30E	Wellbore	No. 8 PWB
Facility	Hydrus 10 Fed No. 8		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 8 PBHL	6136.25	6000.00	-380.43	-658.55	656395.90	670498.90	32°50'33.597"N	103°57'31.310"W	point

SURVEY PROGRAM Ref Wellbore: No. 8 PWB Ref Wellpath: Preliminary				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6136.25	NaviTrak (Standard)		No. 8 PWB