

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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.*5. Lease Serial No.
NMNM84729

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
CUERVO FEDERAL 20H ✓9. API Well No.
30-025-40559 ✓10. Field and Pool, or Exploratory
DIAMONDTAIL11. County or Parish, and State
LEA COUNTY 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 COMPANY ✓

Contact: CRISTEN BURDELL

E-Mail: cburdell@cimarex.com

3a. Address

202 S. CHEYENNE AVE STE 1000
TULSA, OK 74103

3b. Phone No. (include area code)

Ph: 918-560-7038

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

Sec 14 T23S R32E NENE 330FNL 375FEL ✓

HOBBS OCD**APR 18 2016****12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 recompleation 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.)

H2S gas analysis for facility as requested

H2S 100 PPM. Submit ROE

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

**Electronic Submission #273996 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 05/04/2015 ()**

Name (Printed/Typed) CRISTEN BURDELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/27/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

James R. Carr

Title

SPET

Date

4-10-16

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

CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ******MAY 06 2016***WJ*

CHROMATOGRAPH EXTENDED ANALYSIS
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	<u>< 0.001</u> 100 ppm		< 0.001
Nitrogen	1.991		2.509
Carbon Dioxide	0.273		0.541
Methane	73.408		52.979
Ethane	13.081	3.478	17.695
Propane	6.939	1.901	13.765
Isobutane	0.879	0.286	2.298
n-Butane	2.071	0.649	5.415
2,2 Dimethylpropane	0.016	0.006	0.052
Isopentane	0.431	0.157	1.399
n-Pentane	0.416	0.150	1.350
2,2 Dimethylbutane	0.002	0.001	0.008
Cyclopentane	0.024	0.010	0.076
2,3 Dimethylbutane	0.006	0.002	0.023
2 Methylpentane	0.063	0.026	0.244
3 Methylpentane	0.034	0.014	0.132
n-Hexane	0.068	0.028	0.264
Methylcyclopentane	0.038	0.013	0.144
Benzene	0.043	0.012	0.151
Cyclohexane	0.059	0.020	0.223
2-Methylhexane	0.008	0.004	0.036
3-Methylhexane	0.009	0.004	0.041
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.025	0.011	0.112
n-Heptane	0.015	0.007	0.068
Methylcyclohexane	0.035	0.014	0.155
Toluene	0.022	0.007	0.091
Other C8's	0.023	0.011	0.114
n-Octane	0.003	0.002	0.015
Ethylbenzene	0.002	0.001	0.010
M & P Xylenes	0.003	0.001	0.014
O-Xylene	0.001	0.000	0.005
Other C9's	0.006	0.003	0.034
n-Nonane	0.002	0.001	0.012
Other C10's	0.004	0.002	0.025
n-Decane	0.000	0.000	0.000
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	6.821	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.771 (Air=1)
Compressibility (Z) -----	0.9960
Molecular Weight -----	22.23
Gross Heating Value	
Dry Basis -----	1303 BTU/CF
Saturated Basis -----	1281 BTU/CF

January 30, 2013

FESCO, Ltd.

1100 Fesco Ave. - Alice, Texas 78332

Sample: Cuervo Federal 20H

First Stage Separator Gas

Sampled @ 90 psig & 70 °F

Date Sampled: 01/15/13

Job Number: 31318.001

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	0.273		0.541
Hydrogen Sulfide	< 0.001	<i>100 ppm</i>	< 0.001
Nitrogen	1.991		2.509
Methane	73.408		52.979
Ethane	13.081	3.478	17.695
Propane	6.939	1.901	13.765
Isobutane	0.879	0.286	2.298
n-Butane	2.087	0.655	5.467
Isopentane	0.431	0.157	1.399
n-Pentane	0.416	0.150	1.350
Cyclopentane	0.024	0.010	0.076
n-Hexane	0.068	0.028	0.264
Cyclohexane	0.059	0.020	0.223
Other C6's	0.105	0.043	0.407
Heptanes	0.095	0.038	0.401
Methylcyclohexane	0.035	0.014	0.155
2,2,4 Trimethylpentane	0.000	0.000	0.000
Benzene	0.043	0.012	0.151
Toluene	0.022	0.007	0.091
Ethylbenzene	0.002	0.001	0.010
Xylenes	0.004	0.002	0.019
Octanes Plus	<u>0.038</u>	<u>0.019</u>	<u>0.200</u>
Totals	100.000	6.821	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity ----- 4.065 (Air=1)
Molecular Weight ----- 117.28
Gross Heating Value ----- 5975 BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity ----- 0.771 (Air=1)
Compressibility (Z) ----- 0.9960
Molecular Weight ----- 22.23
Gross Heating Value
Dry Basis ----- 1303 BTU/CF
Saturated Basis ----- 1281 BTU/CF