

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 & Natural Resources
NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

JAN 13 2015

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☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 600 N. Marienfeld St., Ste. 600 Midland, TX 79701		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW 11-8-14
⁴ API Number 30 -015-42208	⁵ Pool Name WC Wolfcamp	⁶ Pool Code 98017
⁷ Property Code 40444	⁸ Property Name Hornsby 35 Federal Com	⁹ Well Number 3H

II. ¹⁰ Surface Location

UL or lot no. E/4	Section 35	Township 26S	Range 27E	Lot Idn 4	Feet from the 210	North/South Line South	Feet from the 1310	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. D	Section 26S	Township 26S	Range 27E	Lot Idn	Feet from the 338	North/South line North	Feet from the 849	East/West line West	County Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 11-8-14	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco Inc. R & M P O Box 2039; Tulsa OK	
226737	DCP Mistream 370 17th St, Ste 2500; Denver CO	

IV. Well Completion Data

²¹ Spud Date 06/5/14	²² Ready Date 11-8-14	²³ TD 16881 10160	²⁴ PBTD 16795	²⁵ Perforations 10068-16795	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	418	452		
12 1/4	9 5/8	2200	783		
8 3/4	7	10185	1108 - TOC 1948'		
6	4 1/2	9117-16881	620 - TOC 9117' TOL		

V. Well Test Data

³¹ Date New Oil 11-9-14	³² Gas Delivery Date 11-8-14	³³ Test Date 11-29-14	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 3150
³⁷ Choke Size 26/64	³⁸ Oil 209	³⁹ Water 1707	⁴⁰ Gas 4363		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature:			OIL CONSERVATION DIVISION		
Printed name: Hope Knauls			Approved by: [Signature]		
Title: Regulatory			Title: [Signature]		
E-mail Address: hknauls@cimarex.com			Approval Date: 3-12-15		
Date: 12/30/14		Phone: 918-295-1799			

Application to Drill
Hornsby 35 Federal Com #3H
 Cimarex Energy Co.
 UL: 4, Sec. 35, 26S, 27E
 Eddy Co., NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. **Location:** SHL 210 FSL & 1310 FWL, Sec. 35, 26S, 27E
 BHL 330 FNL & 790 FWL, Sec. 26, 26S, 27E
2. **Elevation Above Sea Level:** 3,274' 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:** 14,406 MD 7,734 TVD, Pilot Hole TD: 8,200
6. **Estimated Tops of Geological Markers:**

Formation	Est Top	Bearing
Rustler	0	N/A
Salado	1627	N/A
Castille	2106	N/A
Bell Canyon	2284	Hydrocarbons
Cherry Canyon	3291	Hydrocarbons
Brushy Canyon	4425	Hydrocarbons
Brushy Canyon Lower	5709	Hydrocarbons
Bone Spring	5941	Hydrocarbons
Bone Spring "A" Shale	6044	N/A
Bone Spring "C" Shale	6574	N/A
1st Bone Spring Ss	6881	Hydrocarbons
2nd Bone Spring Ss	7349	Hydrocarbons
2nd Bone Spring Ss Horizontal Target	7734	Hydrocarbons
3rd Bone Spring Limestone	7836	Hydrocarbons
TD (Pilot Hole)	8200	Hydrocarbons

7. **Possible Mineral Bearing Formation:** Shown above

7A. **OSE Ground Water Estimated Depth:** 100'

8. **Casing Program:**

See COA

Name	Casing Depth From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF at Full Evacuation (1.125)	Collapse SF at 1/3 Evacuation (1.125)	Burst SF (1.125)	Cumulative Air Weight	Cumulative Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface	0	400	400	17 1/2	13-3/8"	48.00	H-40	ST&C	New	172	8.3	4.29		10.02	19,200	16,767	19.20
Intermediate	0	2260	2260	12 1/4	9-5/8"	36.00	J-55	LT&C	New	1175	10.0		1.72	3.00	81,360	68,939	6.57
Production	0	7257	7257	8 3/4	5-1/2"	17.00	L-80	LT&C	New	3396	9.0	1.85		2.28	131,478	113,412	2.98
Production	7257	14406	7734	8 3/4	5-1/2"	17.00	L-80	BT&C	New	3619	9.0	1.74		2.14	8,109	6,995	56.76

Note: Operator may drill a 8-1/2" OH from end of curve to TD of the well. This is to reduce the need to ream the conventionally drilled curve to run a RSS assembly into the lateral.