

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101  
Revised July 18, 2013

**NM OIL CONSERVATION**  
Energy Minerals and Natural Resources

ARTESIA DISTRICT

JAN 03 2017

RECEIVED

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, (PLUGBACK), OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Cimarex Energy Co. of Colorado 202 S. Cheyenne Ave Tulsa, OK 74103		<sup>2</sup> GRID Number 162683
<sup>4</sup> Property Code		<sup>3</sup> API Number 30015-22747
<sup>5</sup> Property Name State 14 Com		<sup>6</sup> Well No. I

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	14	19S	29E		1980	North	660	West	Eddy

**\* Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

Pool Name	Pool Code
Turkey Track; Strawn (Gas)	96669

**Additional Well Information**

<sup>11</sup> Work Type S	<sup>12</sup> Well Type Gas	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Fee	<sup>15</sup> Ground Level Elevation 3319
<sup>16</sup> Multiple	<sup>17</sup> Proposed Depth PBTD: 10596'	<sup>18</sup> Formation Strawn	<sup>19</sup> Contractor	<sup>20</sup> Spud Date
Depth to Ground water:		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

\*Csg previously set

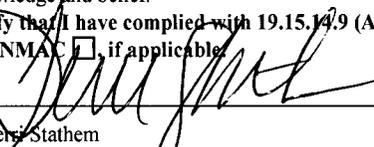
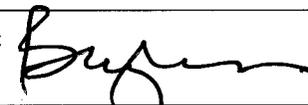
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
*Surf	14.75	11-3/4"	42.0	320	500	circ
*Int	11	8-5/8"	24.0	2856	1200	circ
*Prod	7.875	4-1/2"	11.6	11554	860	7740'

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature:  Printed name: Teri Stathem Title: Manager Regulatory Compliance E-mail Address: tsthathem@cimarex.com Date: 12-29-2016 Phone: 432-620-1936	OIL CONSERVATION DIVISION	
	Approved By: 	
	Title: DII SUPERVISOR	
	Approved Date: 06 JAN 17	Expiration Date: 02 JAN 19
	Conditions of Approval Attached	

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

State of New Mexico **JAN 03 2017**  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr. **RECEIVED**  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

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AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-015-22747		<sup>2</sup> Pool Code 96669		<sup>3</sup> Pool Name Turkey Track; Strawn (Gas)	
<sup>4</sup> Property Code 21733		<sup>5</sup> Property Name State 14 Com			<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 162683		<sup>8</sup> Operator Name Cimarex Energy Co. of Colorado			<sup>9</sup> Elevation 3319'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	14	19S	29E		1980	North	660	West	Eddy

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

				<p><b><sup>17</sup> OPERATOR CERTIFICATION</b> 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 to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p>	
				<p align="right">12/30/2016</p>	<p align="right">Date</p>
				<p>Signature</p>	
			<p>Terri Stathem</p> <p>Printed Name</p>		
			<p>tstathem@cimarex.com</p> <p>E-mail Address</p>		
			<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> 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.</p>		
			<p>Date of Survey</p>		
			<p>Signature and Seal of Professional Surveyor:</p>		
			<p>Certificate Number</p>		



AFE No: 3816096RC

**Procedure Sheet – Hobbs District**  
PLEASE COMMENCE WITH WORK PER PROCEDURE

**State 14 Com 1**

Squeeze Wolfcamp Perfs and Recomplete to Strawn formation

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JAN 03 2017

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**Wellbore Data**

GL	3219'
KB	3238'
TD	11,556'
PBTD	10,596' (CIBP @ 10,630' w/ 35' cement)
Perfs	Wolfcamp (9049' -9070', 9118' -9133', 9142' -9153'; 3 SPF, 144 holes)
Casing	11-3/4" 42# H-40 ST&C set @ 320' cmtd w/ 500 sx, cmt circ 8-5/8" 24# K-55 ST&C set @ 2,856', cmtd w/ 1,200 sx, cmt circ 4-1/2" 11.6# N-80 LT&C set @ 11,554', cmtd w/ 860 sx, TOC 7740'
Tubing	285 jts 2-3/8" 4.7# L-80 8rd EUE

**Procedure:**

1. MIRU pulling unit. Have RU and operational safety meeting on location; discuss all risk and potential dangers. Check surface pressures.
2. If necessary, blow down or kill well as needed w/ 2% KCL water w/ biocide additive.
3. Remove horsehead. LD stuffing box and polished rod.
4. TOH and lay down rods and pump. Describe and take pictures of any scale, paraffin, rod wear, etc. Send pictures to Midland and send necessary samples in with chemical company. Send pump in with pump company and report back teardown results to Midland. Send off rods to yard.
5. ND wellhead and flowline. NU 5K BOP and spool.
6. RU tubing scanners. Release TAC. TOH while scanning w/ Tbg/BHA. LD BHA and LD/replace any joints scanning out less than yellow-band grade. Email/send scan report to Midland. Describe and take pictures of any scale, paraffin, tubing wear, etc. Send pictures to Midland and send necessary samples in with chemical company.

7. PU and TIH w/ 3-3/4" bit, 4-1/2" scraper, and 2-3/8" Tbg to ±10,550'. TOH. LD bit and scraper.
8. PU and TIH w/ 4-1/2" X 2-3/8" Treating Packer and 2-3/8" Tbg. Set @ ± 9000'.
9. RU pump truck and test casing to 1000 psi for 30 minutes with chart recorder. If the pressure does not hold, call for further directions. If test successful, bleed off casing pressure.
10. Pump freshwater down tubing, establishing injection rate and report results to Midland.  
(Cementing design could change based on injection rate results)
11. Bleed off pressure. Unset packer, TOH w/ TBG and packer. LD packer.

**Cement Squeeze**

12. Move in and set 1 half pit tank along with necessary iron and connections.
13. PU and TIH w/ cement retainer and 2-3/8" Tbg. Set retainer @ ± 8900'.
14. Sting out of retainer and reverse circulate wellbore clean w/ 34 bbls of fresh water.
15. Sting back into retainer. Pressure up backside to 200 psi and begin injecting fresh water down tubing to establish rate.
16. Once rate is established mix and pump 275 sacks of 16.4# class H cement (ensure to use clean city water for mixing with cement w/o biocide additive), squeezing Wolfcamp perms (9,049' – 9,153').
17. Displace cement w/ freshwater within 1 BBL of cement retainer @ ± 8900' (~33 BBL calculated).
18. Once all cement is displaced or as much as the well allows, sting out of retainer, PU TBG 10', and reverse out with 50 bbls of fresh water or until cement cleans up.
19. SI for 24 hours to give proper time for cement to set.
20. RIH w/ 3-7/8" mill tooth bit, bit sub, 6 3-1/8" drill collars, and 2-3/8" Tbg to 8900' and drill out the first retainer/cement below retainer down to 9,153'. Work string up and down to ensure an even clean around the wellbore. (If cement is green call Midland office)



21. RU pump truck and close rams on casing side. Pump down tubing and pressure test squeeze interval (9,049'- 9,153') to 200 psi for 30 minutes to ensure proper squeeze. If the pressure does not hold, call for further directions.
22. Bleed off pressure. TOH w/ bit and collars and stand back 2-3/8" tubing. LD bit and collars.

**Perforate**

23. Rig up wireline and install 5K lubricator.
24. MU & RIH w/ 3-1/8" select fire casing guns on wireline (74 total holes, 0.42" diameter holes, 60° phasing) and perforate Strawn at 2 SPF as follows:

Top Shot	Bottom Shot	Length	Space	Perforations
10,516	10,517	1	1	2
10,514	10,515	1	1	2
10,512	10,513	1	1	2
10,510	10,511	1	1	2
10,508	10,509	1	1	2
10,506	10,507	1	1	2
10,504	10,505	1	1	2
10,502	10,503	1	1	2
10,500	10,501	1	27	2
10,472	10,473	1	1	2
10,470	10,471	1	1	2
10,468	10,469	1	1	2
10,466	10,467	1	1	2
10,464	10,465	1	1	2
10,462	10,463	1	15	2
10,446	10,447	1	1	2
10,444	10,445	1	1	2
10,442	10,443	1	1	2
10,440	10,441	1	1	2
10,438	10,439	1	1	2
10,436	10,437	1	17	2
10,418	10,419	1	1	2
10,416	10,417	1	72	2



10,343	10,344	1	1	2
10,341	10,342	1	1	2
10,339	10,340	1	1	2
10,337	10,338	1	20	2
10,316	10,317	1	1	2
10,314	10,315	1	1	2
10,312	10,313	1	1	2
10,310	10,311	1	36	2
10,273	10,274	1	1	2
10,271	10,272	1	1	2
10,269	10,270	1	1	2
10,267	10,268	1	1	2
10,265	10,266	1	1	2
10,263	10,264	1		2

Depth Reference Log: Dresser Atlas Compensated Densilog Compensated Neutron

Log Dated: January 27, 1979

- 25. Report observed pressures to Midland.
- 26. Pull perf guns and inspect to ensure all shots fired. Shut well in.
- 27. MU and RIH on wireline w/ Pump out plug, 1.875" XN profile nipple, 2-3/8" X 10' L-80 tubing sub, and 4-1/2" X 2-3/8" 10K Globe AS1-X packer w/ 1.875" X profile nipple. Set packer @ ± 10,230' w/ 15K compression. POH. (Set shear value for pump out plug to be at 1,000-1,500 over well pressure)
- 28. ND 5K lubricator. Rig down and release wireline.
- 29. PU and TIH w/ On/Off tool, and 2-3/8" Tbg. Hydro-test all 2-3/8" tubing to 5K psi while TIH and replace any failed joints. Latch up into On/Off tool. (See proposed tubing detail in WBD)
- 30. Bleed well down. Mark tubing on surface to identify depth. Release On/Off tool and space out tubing w/ necessary subs to the marked surface joint. Reverse circulate 104 BBL of packer fluid. Latch up into On/Off tool.
- 31. Install tubing hanger. ND 5K BOP and spool, NU WH. Install 5K right hand tree.



**Acidize**

32. Move in and set 1 lined frac tank along with necessary iron and connections. Fill frac tank w/ 390 BBL freshwater w/ biocide additive. Mix freshwater in frac tank with raw acid per Pro Petro recommendation.
33. Move in and rig up Acid crew. Test lines to 6,000 psi. Pressure up on tubing to blow out pump out plug, establish injection rate, and acidize perms 10263'- 10518' w/ 20,000 gals, gelled 15% HCL @ 12 bpm or as high of a rate as the well allows. Pump first 500 gals then pump salt blocks in even time increments and volumes. Flush well with 45 bbls of freshwater. Observe and report ISIP, 5, 10, 15 minute pressures. Max pressure: 5000 psi. Send acid job report to Midland.
34. Flow well back until well dies or sufficient production data is achieved. Swab well in if necessary.
35. Based on swab results, treatment pressures, and ISIP,5,10,15 minute results, await further instructions from Midland.
36. RDMO WSU.
37. Return well to production.



Cimarex Energy Co. of Colorado

State 14 Com No. 001

API # 30-015-22747 Property: 309548-102.01

GL: 3,319' KB: 3,338' (19') Field: Parkway

1980'FNL & 660' FEL UL E Sec 14 T19S R29E

Dean Pearson

10/12/16

