

**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

**NM OIL CONSERVATION** State of New Mexico  
**ARTESIA DISTRICT**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
 Revised July 18, 2013

DEC 28 2016

RECEIVED

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 29000		<sup>3</sup> API Number 30015-20357
<sup>5</sup> Property Name Echols Com		<sup>6</sup> Well No. 1

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	12	23S	26E		1980	South	1980	East	Eddy

**8. 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 Carlsbad;Atoka, South (Gas)	Pool Code 73800
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**Additional Well Information**

<sup>11</sup> Work Type P	<sup>12</sup> Well Type Gas	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Fee	<sup>15</sup> Ground Level Elevation 3234
<sup>16</sup> Multiple	<sup>17</sup> Proposed Depth PBTD: 11414'	<sup>18</sup> Formation Atoka	<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**

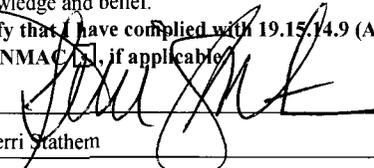
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
*Surf	17.5	13-3/8"	48	388	350	surf
*Int	12.25	9-5/8"	40	7073	1300	surf
*Prod	8.75	4-1/2"	11.6	11925	1350	7370

**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: Terri Stathem Title: Manager Regulatory Compliance E-mail Address: tstathem@cimarex.com Date: 12-27-2016 Phone: 432-620-1936	OIL CONSERVATION DIVISION	
	Approved By: 	
	Title: DII SUPERVISOR	
	Approved Date: 29 DEC 16	Expiration Date: 29 DEC 18
	Conditions of Approval Attached	

\*Casing previously set - no new casing

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-20357	<sup>2</sup> Pool Code 73800 ✓	<sup>3</sup> Pool Name Carlsbad; Atoka, South (Gas) ✓
<sup>4</sup> Property Code 29000 ✓	<sup>5</sup> Property Name Echols Com ✓	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 162683 ✓	<sup>8</sup> Operator Name Cimarex Energy of Colorado ✓	<sup>9</sup> Elevation 3234'

<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
J	12	23S	26E		1980	South	1980	East	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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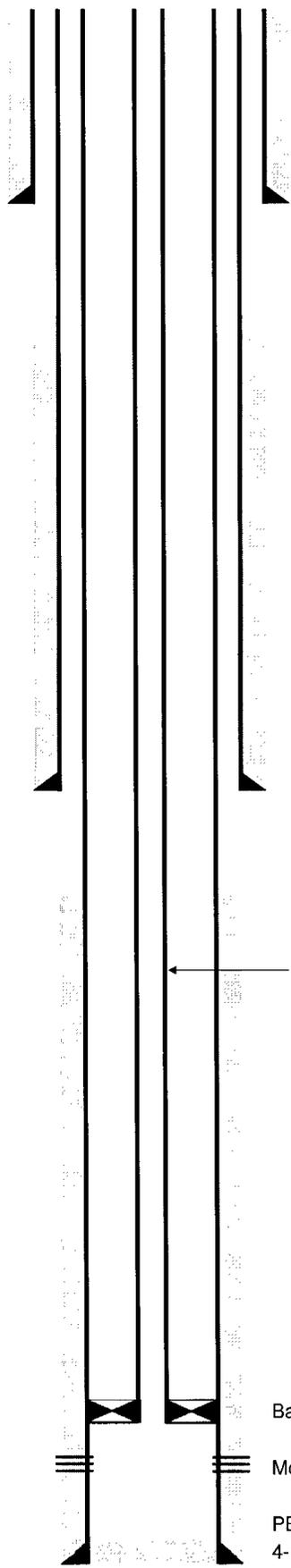
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.</p> <p>Signature: <i>Terri Stathem</i> Date: 12/21/16 Printed Name: Terri Stathem E-mail Address: tstathem@cimarex.com</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 Signature and Seal of Professional Surveyor.</p> <p>Certificate Number</p>



Current WBD  
KB - 19' above GL

Cimarex Energy Co. of Colorado  
Echols #1  
1980' FSL & 1980' FEL  
Sec. 12, T-23-S, R-26-E, Eddy Co., NM  
S. Gengler / D Percy 05/11/2009-3/10/15



13-3/8", 48# H-40 csg @ 388'  
cmtd w/ 350 sx, cmt circ

TOC @ 2080' by TS

9-5/8", 40# csg @ 7073'  
cmtd w/ 1350 sx, cmt circ

TOC @ 7370 by TS. DP

← 2-3/8" 4.7# N-80 Tbg

Baker Loc-Set pkr @ 11453'

Morrow perms (11499' - 11716')

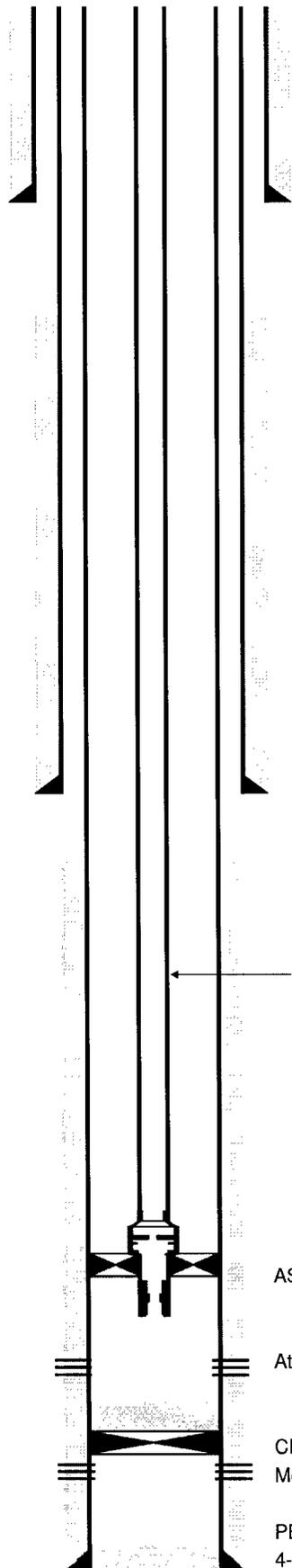
PBTD @ 11835'

4-1/2" 11.6 & 13.5# N-80 @ 11925' cmtd w/ 1350 sx  
TD @ 11925'



**Proposed Atoka WBD**  
KB - 19' above GL

**Cimarex Energy Co. of Colorado**  
Echols #1  
1980' FSL & 1980' FEL  
Sec. 12, T-23-S, R-26-E, Eddy Co., NM  
S. Gengler / D Pearcy 05/11/2009-3/10/15



13-3/8", 48# H-40 csg @ 388'  
cmtd w/ 350 sx, cmt circ

TOC @ 2080' by TS

9-5/8", 40# csg @ 7073'  
cmtd w/ 1350 sx, cmt circ

TOC @ 7370 by TS. DP

2-3/8" 4.7# N-80 Tbg

AS-1X Packer set at +/- 10,168'

Atoka perfs (10,218' - 10,519')

CIBP @ 11,449' w/ 25 sx cement on top  
Morrow perfs (11,499' - 11,716')

PBD @ 11,835'  
4-1/2" 11.6 & 13.5# N-80 @ 11,925' cmtd w/ 1350 sx  
TD @ 11,925'



**Echols Com 1**  
**Atoka Recompletion Procedure**  
**Michael Karner 12/14/16**

**Well Data**

KB	17'
TD	11,925'
PBTD	11,835'
Casing	13-3/8" 48# H-40 @ 388'. Cmt'd w/ 350 sx, cmt circ 9-5/8" 40# @ 7,073'. Cmt'd w/ 1,350 sx, cmt circ 4-1/2" 11.6# P-110 & 13.5# N-80 @ 11,925'. Cmt'd w/ 1,350 sx. TOC @ 7,370' by TS
Tubing	2-3/8" 4.7# L-80 8rd, EOT @ 11,453'
Current Prod. Perfs	Morrow (11,499' – 11,716')
Proposed RC Perfs	Atoka (10,218' – 10,519')

**Procedure**

Notify NMOCD 24 hours prior to starting operations.

1. Test anchors prior to moving in rig.
2. Move in rig up pulling unit.
3. Kill well as necessary with 7% KCl.
4. Nipple down wellhead, nipple up 5,000 psi blow out preventer stack.
5. TOOH w/ 2-3/8" 4.7# L-80 tbg. Stand back tbg. Scan tubing during TOOH.
6. TIH w/ CIBP on 2-3/8" tbg to set CIBP at +/- 11,449'
7. Pump 25 sx cement on top of CIBP at +/- 11,449'. Abandon Morrow.
8. TOOH 1,000'
9. Reverse circulate 2 tbg volumes
10. WOC 6-8 hours
11. TOOH w/ tbg and stand back tbg
12. Test casing to 5,000 psi on chart for 30 minutes with no more than 10% leakoff.
13. RIH w/ 4.6" gauge ring and junk basket on electric line to +/- 10,519'
14. RIH with 3-1/8" casing guns on electric line and perforate Strawn from 10,218' – 10,519'

15. RIH w/ BHA described below to set packer at 10,168'. From downhole up:
  - a. 2-3/8" WEG
  - b. 2-3/8" pump out plug pinned for 1,500 – 2,000 psi differential pressure
  - c. 1.875" XN profile nipple
  - d. 10' 2-3/8" 4.7# L-80 tbg sub
  - e. 5-1/2" x 2-3/8" Arrowset 1X packer and on-off tool stinger w/ 1.875" X profile nipple
16. RD WL and lubricator
17. TIH w/ on/off tool overshoot, GLVs, and 2-3/8" 4.7# L-80 tbg. Hydrotest in hole to 8500 psi.
18. Latch overshoot onto on-off tool and space out tubing
19. ND BOP, NU WH
20. RDMO pulling unit
21. RU pump truck and pump out plug
22. MIRU Propetro acid
23. Pump 19,000 total gallons of 15% NEFE HCl with 225 ball sealers down 2-3/8" tubing
24. Flush with 1 tubing volume 2% KCl
25. Put well on production. Swab well as necessary