

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410

DISTRICT IV  
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
11885 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies  
JAN 29 2011  
NMOCD ARTESIA

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38947	Pool Code 97866	Pool Name Mar Loco; Glorieta-Yeso
Property Code 37953	Property Name YALE STATE	Well Number 31
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3774'

Surface Location

UL or lot No. 1	Section 2	Township 17-S	Range 30-E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 990	East/West line EAST	County EDDY
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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
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Dedicated Acres 40	Joint or Infill	Consolidation Code	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>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=677721.1 N X=621793.9 E</p> <p>LAT.=32.862510' N LONG.=103.936687' W</p>				<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Netha Aaron 1/11/12 Signature Date</p> <p>Netha Aaron Printed Name aaaron@concho.com</p>	
				<p>SURVEYOR CERTIFICATION</p> <p>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>FEBRUARY 10, 2011</p> <p>Date Surveyed LA</p> <p>Signature &amp; Seal of Professional Surveyor RONALD EIDSON 1.11.0252</p> <p>Certificate No. GARY O. EIDSON 12541 RONALD EIDSON 3239</p>	

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised August 1, 2011

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-015-38947
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Yale State
8. Well Number 31
9. OGRID Number 229137
10. Pool name or Wildcat Mar Loco; Glorieta, Yeso 97866

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
COG Operating, LLC

3. Address of Operator  
550 W. Texas Ave., Suite 100, Midland, TX 79701

4. Well Location

Unit Letter I : 2310 feet from the South line and 990 feet from the East line  
Section 2 Township 17S Range 30E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3774' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

11/11/11 MIRU. Tested Csg to 3500# for 30 min. Good.

11/15/11 Perf Lower Blinbry @ 5650 - 5900 w/ 1 SPF, 51 holes.

11/16/11 Acidized w/3500 gals 15% HCL. Frac w/110,781 gals gel, 143,314 16/30 White sand, 31,354# 16/30 CRC. Flush with 1000 gals 10% HCL. Set CBP @ 5610.

Perf Middle Blinbry @ 5330 - 5580 w/ 1SPF, 26 holes. Acidized w/2500 gals 15% HCL. Frac w/110,868 gals gel, 143,501# 16/30 White sand, 30,447 16/30 CRC. Flush with 1000 gals 10% HCL. Set CBP @ 5290.

Perf Upper Blinbry @ 5010 - 5260 w/1SPF, 26 holes. Acidized w/ 2500 gals 15% HCL. Frac w/114,034 gals gel, 149,226# 16/30 White sand, 32,050# 16/30 CRC. Flush with 1000 gals 10% HCL. Set CBP @ 4920.

Perf Paddock 4635 - 4885 w/1SPF, 26 holes. Acidized w/ 3100 gals 15% HCL. Frac w/105,898 gals gel, 130,115 16/30 White sand, 18,113# 16/30 CRC.

11/30/11 Drill out plugs. Clean out to PBTD 6110.

12/01/11 RIH w/177 jts 2-7/8" J55 6.5# tbg, EOT @ 5792. RIH w/ 2-1/2" x 2" x 24'.

12/02/11 Hang on well.

Spud Date:

10/20/11

Rig Release Date:

10/29/11

RECEIVED  
JAN 23 2012  
MOCD ARTESIA

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Netha Aaron TITLE Regulatory Analyst DATE 1/11/12

Type or print name Netha Aaron E-mail address: oaaron@concho.com PHONE: 432-818-2319

For State Use Only

APPROVED BY: T. L. Shepard TITLE Geologist DATE 2/8/12

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <b>District I</b> 1625 N French Dr., Hobbs, NM 88240 <b>District II</b> 1301 W. Grand Avenue, Artesia, NM 88210 <b>District III</b> 1000 Rio Brazos Rd., Aztec, NM 87410 <b>District IV</b> 1220 S. St Francis Dr., Santa Fe, NM 87505		<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>		<b>Form C-105</b> July 17, 2008	
		1. WELL API NO.		30 - 015 - 38947	
		2. Type of Lease		<input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN	
		3. State Oil & Gas Lease No			
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>					
4 Reason for filing.		5. Lease Name or Unit Agreement Name			
<input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19 15.17 13.K NMAC)		Yale State  6 Well Number. 31			
7. Type of Completion.					
<input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER					
8. Name of Operator		9 OGRID 229137			
COG Operating LLC					
10. Address of Operator		11 Pool name or Wildcat			
550 W Texas Ave, Suite 100		Mar Loco; Glorieta, Yeso 97866			
Midland, TX 79701					
12. Location	Unit Ltr	Section	Township	Range	Lot
Surface:	1	2	17S	30E	
BH:					
13. Date Spudded	14. Date T.D Reached	15 Date Rig Released	16 Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc )
10/20/11	10/28/11	10/29/11	12/2/11		3774' GR
18 Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
6160		6110		No	Comp Neutron HNGS/CCL
22 Producing Interval(s), of this completion - Top, Bottom, Name					
4635 - 5900					
<b>23. CASING RECORD (Report all strings set in well)</b>					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	481	17-1/2	680	
8-5/8	24	1355	11	600	
5-1/2	17	6155	7-7/8	1050	
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
					2-7/8
					5792
26. Perforation record (interval, size, and number)			27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.		
4635 - 4885 - .34, 26 holes    Open			DEPTH INTERVAL    AMOUNT AND KIND MATERIAL USED		
5010 - 5260 - .34, 26 holes    Open			4635 - 4885    See Attachment		
5330 - 5580 - .34, 26 holes    Open			5010 - 5260    See Attachment		
5650 - 5900 - .34, 51 holes    Open			5330 - 5580    See Attachment		
			5650 - 5900    See Attachment		
<b>28 PRODUCTION</b>					
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod or Shut-in)	
12/7/11		2-1/2" x 2" x 24' pumping		Producing	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF
12/20/11	24	n/a		110	340
Water - Bbl.	Gas - Oil Ratio				
221	3091				
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
70	70				
Oil Gravity - API - (Corr.)					38.6
29. Disposition of Gas (Sold, used for fuel, vented, etc.)					30 Test Witnessed By
Sold					Kent Greenway
31. List Attachments					
Logs, C-102, C-104, Deviation Survey					
32 If a temporary pit was used at the well, attach a plat with the location of the temporary pit.					
33 If an on-site burial was used at the well, report the exact location of the on-site burial:					
Latitude		Longitude		NAD 1927 1983	
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief					
Signature		Printed Name		Title	
[Signature]		Netha Aaron		Regulatory Analyst	
E-mail Address		Date			
aaaron@concho.com		1/11/12			

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates <u>1427</u>	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres <u>3084</u>	T. Simpson	T. Mancos	T. McCracken
T. Glorieta <u>4524</u>	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb <u>5957</u>	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T. Yeso <u>4615</u>	T. Entrada	
T. Wolfcamp	T. Rustler	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

**Yale State 31**  
**API#: 30-015-38947**  
**EDDY, NM**

**C-105 (#27) ADDITIONAL INFORMATION**

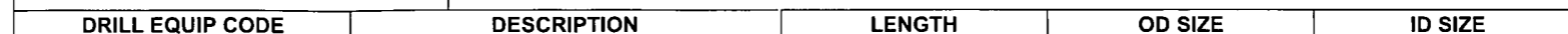
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4635 - 4885	Acidized w/ 3100 gals 15% HCL. Frac
	Frac w/105,898 gals gel, 130,115 16/30 White
	sand, 18,113# 16/30 CRC

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5010 - 5260	Acidized w/ 2500 gals 15% HCL.
	Frac w/114,034 gals gel, 149,226# 16/30 White
	sand, 32,050# 16/30 CRC. Flush with 1000 gals
	10% HCL acid

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5330 - 5580	Acidized w/2500 gals 15% HCL.
	Frac w/110,868 gals gel, 143,501# 16/30 White
	sand, 30,447 16/30 CRC. Flush with 1000 gals
	10% HCL acid

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5650 - 5900	Acidized w/3500 gals 15% HCL.
	Frac w/110,781 gals gel, 143,314 16/30 White
	sand, 31,354# 16/30 CRC. Flush with 1000
	gals 10% HCL acid

**Report Dates:** 12/03/2011



**Well ID:** 30-015-38947**Well Name:** YALE STATE #31**Event#:** 2.00**Report Dates:** 12/03/2011

PERFORATION							
ZONE	JOB REPORT DATE	ZONE NAME	TOP DEPTH	BOTTOM DEPTH	HOLE SIZE	PEN SIZE	SQUEEZED
1	11/16/2011	BLINEBRY	5650.00	5900 00	0.34	27.00	N
2	11/17/2011	BLINEBRY	5330.00	5580.00	0.34	27.00	N
3	11/17/2011	BLINEBRY	5010.00	5260 00	0.34	27.00	N
4	11/17/2011	PADDOCK	4635.00	4885.00	0.34	27.00	N

District I  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-104  
Revised October 15, 2009

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address <b>COG Operating LLC</b> 550 West Texas Ave, Suite 100 Midland, TX 79701		<sup>2</sup> OGRID Number <b>229137</b>
		<sup>3</sup> Reason for Filing Code/ Effective Date NW effective 12/2/11
<sup>4</sup> API Number <b>30 - 015 - 38947</b>	<sup>5</sup> Pool Name Mar Loco; Glorieta, Yeso	<sup>6</sup> Pool Code <b>97866</b>
<sup>7</sup> Property Code <b>37953</b>	<sup>8</sup> Property Name Yale State	<sup>9</sup> Well Number <b>31</b>

II. <sup>10</sup> Surface Location

Ul or lot no. <b>I</b>	Section <b>2</b>	Township <b>17S</b>	Range <b>30E</b>	Lot Idn	Feet from the <b>2310</b>	North/South Line <b>South</b>	Feet from the <b>990</b>	East/West line <b>East</b>	County <b>Eddy</b>
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<sup>11</sup> Bottom Hole Location

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> Lse Code <b>S</b>	<sup>13</sup> Producing Method Code <b>P</b>	<sup>14</sup> Gas Connection Date <b>12/2/11</b>	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
<b>278421</b>	<b>HollyFrontier Refining &amp; Marketing, LLC</b>	<b>O</b>
<b>036785</b>	<b>DCP Midstream</b>	<b>G</b>
<div>RECEIVED JAN 23 2012 NMOCD ARTESIA</div>		

IV. Well Completion Data

<sup>21</sup> Spud Date <b>10/20/11</b>	<sup>22</sup> Ready Date <b>12/2/11</b>	<sup>23</sup> TD <b>6160</b>	<sup>24</sup> PBSD <b>6110</b>	<sup>25</sup> Perforations <b>4635 - 5900</b>	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
<b>17-1/2</b>	<b>13-3/8</b>	<b>481</b>	<b>680</b>		
<b>11</b>	<b>8-5/8</b>	<b>1355</b>	<b>600</b>		
<b>7-7/8</b>	<b>5-1/2</b>	<b>6155</b>	<b>1050</b>		
	<b>2-7/8 tbg</b>	<b>5792</b>			

V. Well Test Data

<sup>31</sup> Date New Oil <b>12/7/11</b>	<sup>32</sup> Gas Delivery Date <b>12/7/11</b>	<sup>33</sup> Test Date <b>12/20/11</b>	<sup>34</sup> Test Length <b>24 hrs</b>	<sup>35</sup> Tbg. Pressure <b>70</b>	<sup>36</sup> Csg. Pressure <b>70</b>
<sup>37</sup> Choke Size <b>n/a</b>	<sup>38</sup> Oil <b>110</b>	<sup>39</sup> Water <b>221</b>	<sup>40</sup> Gas <b>340</b>		<sup>41</sup> Test Method <b>p</b>
<sup>42</sup> 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: <i>N. Aaron</i>			OIL CONSERVATION DIVISION		
Printed name: Netha Aaron			Approved by: <i>T.C. Shepard</i>		
Title: Regulatory Analyst			Title: <i>Geologist</i>		
E-mail Address: oaaron@conchoresources.com			Approval Date: <i>2/8/2012</i>		
Date: <b>1/11/12</b>		Phone: <b>432-818-2319</b>			