

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029342B

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator COG OPERATING LLC			Contact: KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com		
3. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701-4287			3a. Phone No. (include area code) Ph: 432-685-4332		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSE Lot J 2270FSL 2310FEL 32.84791 N Lat, 103.97537 W Lon At top prod interval reported below NWSE Lot J 2270FSL 2310FEL 32.84791 N Lat, 103.97537 W Lon At total depth NWSE Lot J 2270FSL 2310FEL 32.84791 N Lat, 103.97537 W Lon			8. Lease Name and Well No. POLARIS B FEDERAL 23		
14. Date Spudded 05/27/2010			15. Date T.D. Reached 06/07/2010		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 07/16/2010			9. API Well No. 30-015-36709-00-S1		
18. Total Depth: MD 6014 TVD 6014			19. Plug Back T.D.: MD 5978 TVD 5978		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory LOCO HILLS		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUT			11. Sec., T., R., M., or Block and Survey or Area Sec 9 T17S R30E Mer NMP		
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)			12. County or Parish EDDY		
			13. State NM		
			17. Elevations (DF, KB, RT, GL)* 3686 GL		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	430		1350		0	
11.000	8.625 J-55	24.0	0	1260		500		0	
7.875	5.500 J-55	17.0	0	6014		1050		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5449							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO			4450 TO 4730	0.410	19	OPEN
B) PADDOCK	4450	4730	4970 TO 5170	0.410	26	OPEN
C) BLINEBRY	5510	5710	5240 TO 5440	0.410	26	OPEN
D)			5510 TO 5710	0.410	26	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
4450 TO 4730	ACIDIZE W/3,000 GALS 15% ACID.
4450 TO 4730	FRAC W/112,733 GALS GEL, 120,501# 16/30 OTTAWA SAND, 23,801 16/30 SIBERPROP SAND.
4970 TO 5170	ACIDIZE W/3,500 GALS 15% ACID.
4970 TO 5170	FRAC W/124,294 GALS GEL, 147,398# 16/30 OTTAWA SAND, 33,154# 16/30 SIBERPROP SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/11/2010	07/17/2010	24	→	118.0	100.0	782.0	38.7		ELECTRIC-PUMPING-UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 70.0	24 Hr. Rate →	Oil BBL 118	Gas MCF 100	Water BBL 782	Gas:Oil Ratio 847	Well Status POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/11/2010	07/17/2010	24	→	118.0	100.0	782.0	38.7	0.60	ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 70.0	24 Hr. Rate →	Oil BBL 118	Gas MCF 100	Water BBL 782	Gas:Oil Ratio	Well Status POW	

RECEIVED
SEP 23 2010

ACCEPTED FOR RECORD
NMOCD-ARTESIA
SEP 20 2010
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #91356 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
YATES	1268		DOLOMITE & SAND	YATES	1268
QUEEN	2167		SAND	QUEEN	2167
SAN ANDRES	2891		DOLOMITE & ANHYDRITE	SAN ANDRES	2891
GLORIETA	4335		SAND & DOLOMITE	GLORIETA	4335
YESO	4427		DOLOMITE & ANHYDRITE		
TUBB	5838				

32. Additional remarks (include plugging procedure):

Acid, Fracture, Treatment, Cement Squeeze etc. continued...

5240 - 5440 ACIDIZE W/3,500 GALS 15% ACID.

5240 - 5440 Frac w/124,606 gals gel, 150,024# 16/30 Ottawa sand, 33,604# 16/30 Siberprop sand.

5510 - 5710 ACIDIZE W/3,500 GALS 15% ACID.

5510 - 5710 FRAC W/125,628 gals gel, 146,297# 16/30 Ottawa sand, 33,749# 16/30 Siberprop

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #91356 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by CHERYLE RYAN on 08/18/2010 (10CMR0565SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 08/18/2010

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****



API Well Number Banner

Report Description

This report shows a Well's API Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



30015367090000

30 15 36709

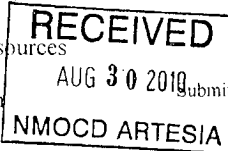
POLARIS B FEDERAL No.023

COG OPERATING LLC

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
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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



Form C-104
Revised June 10, 2003

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 550 W. Texas Avenue, Suite 1300 Midland, TX 79701		² OGRID Number 229137 ✓
		³ Reason for Filing Code/ Effective Date NW effec 07/06/10
⁴ API Number 30 - 015 - 36709 ✓	⁵ Pool Name Loco Hills; Glorieta Yeso OK	⁶ Pool Code 96718
⁷ Property Code 302547 ✓	⁸ Property Name Polaris B Federal	⁹ Well Number 023 ✓

II. ¹⁰ Surface Location

UL or lot no. j	Section 9	Township 17S	Range 30E	Lot Idn	Feet from the 2270	North/South Line South	Feet from the 2310	East/West line East	County Eddy ✓
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¹¹ 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
¹² Use Code F ✓	¹³ Producing Method Code P	¹⁴ Gas Connection Date 07/06/10	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 POD	²¹ O/G	²² POD ULSTR Location and Description
15694	Navajo Refining Co. Pipeline Division P O Box 159 Artesia, NM 88211-0159	5105144	O	
009171	DCP Midstream	5105142	G	

IV. Produced Water

²³ POD 5105146	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 05/27/10	²⁶ Ready Date 07/06/10	²⁷ TD 6014	²⁸ PBTD 5978	²⁹ Perforations 4450 - 4730	³⁰ DHC, MC 5710
³¹ Hole Size 17 1/2	³² Casing & Tubing Size 13 3/8	³³ Depth Set 430	³⁴ Sacks Cement 1350		
11	8 5/8	1260	500		
7 7/8	5 1/2	6014	1050		
	2-7/8" tbg	5449			

VI. Well Test Data

³⁵ Date New Oil 7/15/10	³⁶ Gas Delivery Date 07/11/10	³⁷ Test Date 07/17/10	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure 70	⁴⁰ Csg. Pressure 70
⁴¹ Choke Size	⁴² Oil 118	⁴³ Water 782	⁴⁴ Gas 100	⁴⁵ AOF	⁴⁶ Test Method P

⁴⁷ 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: KC		OIL CONSERVATION DIVISION Approved by: [Signature] Title: DIST # Supervisor Approval Date: OCT 05 2010	
Printed name: Kancía Carrillo			
Title: Regulatory Analyst			
E-mail Address: kcarrillo@conchoresources.com			
Date: 08/17/10	Phone: 432-685-4332		

*
Amend
per
Completion

dm

KC