

AUG - 3 2009

Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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		8. Lease Name and Well No POLARIS B FEDERAL 31	
Contact KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com		9. API Well No 30-015-36663-00-S1	
3. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701		3a. Phone No (include area code) Ph: 432-685-4332	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 9 T17S R30E Mer NMP At surface SESE 1090FSL 400FEL 32 84483 N Lat, 103.96976 W Lon  At top prod interval reported below  At total depth		10. Field and Pool, or Exploratory LOCO HILLS 96718 ✓ 11. Sec., T., R., M., or Block and Survey or Area Sec 9 T17S R30E Mer NMP 12. County or Parish EDDY 13. State NM	
14. Date Spudded 06/04/2009		15. Date T.D. Reached 06/14/2009	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod 07/09/2009		17. Elevations (DF, KB, RT, GL)* 3696 GL	
18. Total Depth MD 6006 TVD 6006		19. Plug Back T.D.: MD 5960 TVD 5960	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL	
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 checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			

## 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 Sks. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17 500	13.375 H40	48.0	0	450		928		0	0
11 000	8 625 J55	24.0	0	1305		500		0	0
7.875	5.500 J55	17.0	0	6005		1000		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	5710							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) GLORIETA YESO			4430 TO 4712	0.410	29	OPEN
B) PADDOCK	4430	4712	4970 TO 5170	0.410	36	OPEN
C) BLINEBRY	5550	5750	5280 TO 5480	0.410	36	OPEN
D)			5550 TO 5750	0.410	48	OPEN

## 26. Perforation Record

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

Depth Interval	Amount and Type of Material
4430 TO 4712	ACIDIZE W/3000 GALS 15% ACID
4430 TO 4712	FRAC W/ 109,000 GALS GEL, 116,315# WHITE SAND, 16,417 SLC
4970 TO 5170	ACIDIZE W/2500 GALS 15% ACID
4970 TO 5170	FRAC W/124,000 GALS GEL, 148,417# WHITE SAND, 27,897# SLC

## 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
07/14/2009	07/14/2009	24	→	90.0	338.0	1000.0	37.2	0.60	SELECTED PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	70	70.0	→	90	338	1000	3756	POW	

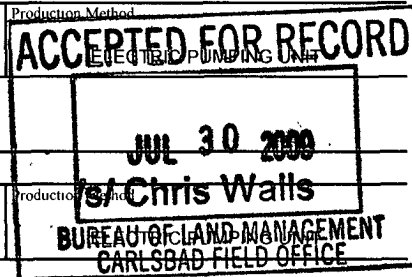
## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
07/14/2009	07/20/2009	24	→	90.0	338.0	1000.0	37.2	0.60	SELECTED PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	70	70.0	→	90	338	1000		POW	

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

ELECTRONIC SUBMISSION #72426 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	1250		DOLOMITE & SAND	YATES	1250
QUEEN	2152		SAND	QUEEN	2152
SAN ANDRES	2872		DOLOMITE & ANHYDRITE	SAN ANDRES	2872
GLORIETA	4307		SAND & DOLOMITE	GLORIETA	4307
YESO	4411		DOLOMITE & ANHYDRITE	YESO	4411
TUBB	5848		SAND		

32. Additional remarks (include plugging procedure)  
Logs will be mailed.

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

5280-5480 ACIDIZE W/2,500 GALS 15% ACID.

5280-5480 FRAC W/126,000 GALS GEL, 151,379# White sand, 32,615# SLC

5550-5750 ACIDIZE W/2,500 GALS 15% ACID

## 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 #72426 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 07/23/2009 (09KMS1844SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 07/23/2009

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 \*\* REVISED \*\*

**Additional data for transaction #72426 that would not fit on the form**

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

Depth Interval	Amount and Type of Material
5280 TO 5480	ACIDIZE W/2500 GALS 15% ACID
5280 TO 5480	FRAC W/126,000 GALS GEL, 151,379# WHITE SAND, 32,615# SLC
5550 TO 5750	ACIDIZE W/2500 GALS 15% ACID

**32. Additional remarks, continued**

5550-5750 FRAC W/138,000 GALS GEL, 148,106# White sand, 33,226# SLC.