OCD-ARTESIA

SEP 24 2007

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Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No: **LC-054988B**

1a Type of Well: ☐ Oil Well ☐ Gas Well ☐ Dry ☑ Other
b Type of Completion: ☐ New Well ☑ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr,
Other **CONVERT TO INJECTION**

6 If Indian, Allottee or Tribe Name:

7 Unit or CA Agreement Name and No:

2 Name of Operator: **COG Operating LLC**

8 Lease Name and Well No: **Jenkins B Federal #18**

3 Address: **550 W. Texas, Ste. 1300, Midland, Texas 79701**

3a Phone No (include area code): **432-685-4332**

9 API Well No: **30-015-34474**

4 Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: **330' FNL & 430' FWL, Unit D**

At top prod interval reported below

At total depth

10 Field and Pool, or Exploratory: **Loco Hills; Glorieta-Yeso 96718**

11 Sec., T., R., M., on Block and Survey or Area: **Sec.20 ,T17S, R30E**

12 County or Parish: **Eddy**

13 State: **NM**

14 Date Spudded: **02/06/2006**

15 Date T.D. Reached: **02/20/2006**

16 Date Completed: ☐ D & A ☑ Ready to Prod **08/17/2007**

17 Elevations (DF, RKB, RT, GL)*: **3641 GL**

18 Total Depth: MD **6401'** TVD

19 Plug Back T.D.: MD **4700'** TVD

20 Depth Bridge Plug Set: MD **4740** TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)

22 Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☐ Yes (Submit copy)

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 1/2	13-3/8	48#		425		449 sxs			None
12 1/4	8-5/8	24#		1047		525 sxs			None
7 7/8	5-1/2	17#		6389		1505 sxs			None

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 7/8	4188'	4188'						

25 Producing Intervals / 26 Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	Paddock			4260.5' - 4629.5'	1 SPF	75	Open
B)	Blinebry			5082.5' - 5412.5'	2 SPF	60	Closed
C)	Drinkard			5984.5' - 6181.5'	2 SPF	68	Closed
D)							

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
4260.5' - 6181.5'	See Attachment
5082.5' - 5412.5'	Squeezed off - See Attachment
5984.5' - 6181.5'	Squeezed off - See Attachment

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
		24							
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press**	**24 Hr Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	
								INJECTING	

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
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press**	**24 Hr Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	

(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
/S/ DAVID R. GLASS
SEP 20 2007
DAVID R. GLASS
PETROLEUM ENGINEER

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.)*

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
QUEEN	2016				
SAN ANDRES	2738				
GLORIETA	4183				
PADDOCK	4251				

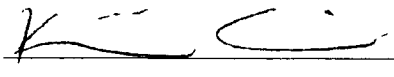
32 Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

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

Name *(please print)* **Kanicia Carrillo** Title **Regulatory Analyst**

Signature  Date **09/18/2007**

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

Jenkins B Federal #18
API#: 30-015-34474
EDDY, NM

3160-4 (#27) ADDITIONAL INFORMATION

27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4260.5 – 4629.5	SITP 140 psi. Load annulus and test casing to 500 psi w LSW. Acidize perforations w 2,500 gal 15% NeFe HCl carrying 150 7/8" 1.3 SG 7/8" SGN ballsealers. 5.5 bpm @ 40 psi. No ball action. Overflush w LSW . ISIP - vacuum. Release packer, LD tbg. PU PL WLRG, PL Arrowset I packer, PL XO, PL 2.25" SN, 132 jts PL 2 7/8" 6.5# EUE J-55 tbg. Set packer @ 4,188' in 12K tension. Load annulus with fresh water/packer fluid.

27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5082.5 – 5412.5 5987.5 – 6181.5	SITP - 95 psi. PU Halliburton E-Z Drill cement retainer. TIH, set retainer @ 4,972' Establish injection rate - 5 bpm @ 30 psig. Pump 200 sks lead - Class C plus additives,14.8 #/gal plus 100 sks tail - Class C plus additives, 14.2#/gal. Displace tubing without washing lines with 29 bbls fresh water. Final injection pressure - .2 bpm @ 2,500 psi. Injection pressure began increasing with 50 sacks in formation and walked into squeeze. Sting out of retainer. TOOH w tbg. RU WL. Make junk basket/gauge ring run to 4,750'. Wireline set CIBP @ 4,740' Dump bail 20' cement on CIBP. PU K-3 treating packer. TIH, set packer @ 4,204' Load annulus with 60 bbls LSW. Pressure to 400 psi.