Form 3160-4
(August 2007)

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.
NMLC029406B

1a. Type of Well	☒ Oil Well	☐ Gas Well	☐ Dry	☐ Other	6. If Indian, Allottee or Tribe Name
b. Type of Completion	☒ New Well	☐ Work Over	☐ Deepen	☐ Plug Back ☐ Diff. Resvr.	
	Other _____				7. Unit or CA Agreement Name and No.

2. Name of Operator	Contact: ROBYN RUSSELL	8. Lease Name and Well No.
COG OPERATING LLC	E-Mail: rrussell@concho.com	SHOVEL HEAD FEDERAL COM 28H

3. Address 600 W. ILLINOIS AVE MIDLAND, TX 79701	3a. Phone No. (include area code) Ph: 432-685-4385	9. API Well No. 30-025-44519

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

Sec 5 T17S R32E Mer NMP
At surface   SESE 360FSL 201FEL
Sec 5 T17S R32E Mer NMP
At top prod interval reported below   SESE 360FSL 201FEL
Sec 3 T17S R32E Mer NMP
At total depth   SESW 430FSL 2507FWL

10. Field and Pool, or Exploratory
MALJAMAR; YESO, WEST

11. Sec., T., R., M., or Block and Survey
or Area Sec 5 T17S R32E Mer NMP

12. County or Parish LEA	13. State NM

14. Date Spudded 07/14/2018	15. Date T.D. Reached 07/26/2018	16. Date Completed ☐ D & A ☒ Ready to Prod. 09/12/2018	17. Elevations (DF, KB, RT, GL)* 4090 GL

18. Total Depth:	MD 14209 TVD 6299	19. Plug Back T.D.:	MD 14192 TVD	20. Depth Bridge Plug Set:	MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN	22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ 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 J55	54.5		1011		695		0	
12.250	9.625 J55	40.0		2283		695		0	
8.750	7.000 L80	29.0		5539					
8.750	5.500 L80	20.0		14198		1025		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	6511							

25. Producing Intervals   **26. Perforation Record**

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BLINEBRY	6561	13838	6561 TO 13838			OPEN SLEEVES
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
6561 TO 13838	ACIDIZE W/60,480 GALS 15% ACID, FRAC W/36,456 GALS TREATED WATER, 5,471,718 GALS SLICK WATER,

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
09/17/2018	09/21/2018	24	▷	654.0	382.0	2528.0	41.0	0.60	ELECTRIC PUMPING UNIT

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	76.0		▷	654	382	2528	584	POW	ACCEPTED FOR RECORD

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	
			▷						MAR 12 2019 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #445437 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Reclamation Due 3-17-2019

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
RUSTLER	927		ANHYDRITE	RUSTLER	927
YATES	2250		DOLOMITE & SANDSTONE	YATES	2250
GRAYBURG	3661		DOLOMITE & SANDSTONE	GRAYBURG	3661
SAN ANDRES	3948		DOLOMITE & ANYDRITE	SAN ANDRES	3948
GLORIETA	5451		SANDSTONE & SILTSTONE	GLORIETA	5451
PADDOCK	5507		DOLOMITE	PADDOCK	5507

32. Additional remarks (include plugging procedure):

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 #445437 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH HAM on 02/12/2019 ()

Name *(please print)* ROBYN RUSSELL   Title REGULATORY ANALYST

Signature   (Electronic Submission)   Date 11/28/2018

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **