

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM14840

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
WHITE STAR FEDERAL 20

2. Name of Operator  
COG OPERATING LLC  
Contact: CHASITY JACKSON  
E-Mail: cjackson@concho.com

9. API Well No.  
30-015-32247

3a. Address  
ONE CONCHO CENTER 600 W. ILLINOIS AVE  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 432-686-3087

10. Field and Pool, or Exploratory  
EMPIRE, GLORIETA YESO E

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 29 T17S R29E Mer NMP 990FNL 990FEL

11. County or Parish, and State  
EDDY COUNTY, NM

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

12/3/12 Unseat pump. POOH w/rods and tbg.  
12/4/12 Set pkr and plug @ 3885. Test backside to 500psi.  
12/5/12 Pump and squeeze off Perfs 3903 - 4278. Cmt w/300sx lead, 300sx tail. Pressure to 3000# squeeze, Ok. Circ 6 bbls to pit.  
12/6/12 Drill out cmt and retainer from 3884 - 4178, fell through the cmt squeeze @ 4300. Test squeeze to 500psi for 30 min.  
12/7/12 Drill formation from 4477-5480.  
12/14/12 TD 4-3/4 hole @ 5551. Run 127jts 4, L80 11.6# @ 5551. DVT @ 3857. Cmt w/150sx C. circ 76sx.  
12/19/12 Drill out DV tool. RIH to PBTD @ 5518.  
12/25/12 Pressure test to 5500# for 30min, good. Perf Lower Blinbry 5050 - 5250, 1 SPF, 26 holes.  
Acidize w/4500 gals 15% HCL acid. Frac w/116,586 gals gel, 162,640# 16/30 brown, 30,268# 16/30

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**AUG 06 2014**

**RECEIVED**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #255317 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Carlsbad**

Name (Printed/Typed) CHASITY JACKSON	Title PREPARER
Signature (Electronic Submission)	Date 07/31/2014

**THIS SPACE FOR FEDERAL OR STATE COMMENTS**

Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office _____	

*Pending BLM approvals will  
subsequently be reviewed  
and scanned*

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Additional data for EC transaction #255317 that would not fit on the form**

**32. Additional remarks, continued**

Siberprop. CBP @ 4980. Perf Middle Blinebry 4750 - 4950, 1 SPF, 26 holes. Acidize w/4500 gals 15% HCL acid.

Frac w/56,774 gals gel, 26,815# 16/30 brown sand, 5,826# 16/30 Siberprop. CBP @ 4700. Perf Upper Blinebry 4450 - 4650, 1 SPF, 26 holes. Acidize w/3500 gals 15% HCL acid. Frac w/131,908 gals gel, 171,826# 16/30 brown sand, 33,216# Siberprop. CBP @ 4220. Perf Paddock @ 3934 - 4184, 1 SPF, 26 holes. Acidize w/2600 galS 15% HCL acid. Frac w/136,934 gals gel, 157,946# 16/30 brown, 21,356# 16/30 Siberprop.

1/2/13 Drill out CBPs. PBTB @ 5520.

1/7/13 Ran 122jts of 2-7/8" J55, 6.5# tbg, EOT @ 3835.

1/8/13 RIH w/2-1/2 x 2 x 24 pump. Turn to production.

AUG 06 2014

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMNM14840

1a. Type of Well  Oil Well  Gas Well  Dry  Other \_\_\_\_\_  
 b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
 Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
COG OPERATING LLC  
 Contact: CHASITY JACKSON  
 E-Mail: cjackson@concho.com

8. Lease Name and Well No.  
WHITE STAR FEDERAL 20

3. Address ONE CONCHO CENTER 600 W. ILLINOIS AVE  
MIDLAND, TX 79701  
 3a. Phone No. (include area code)  
Ph: 432-686-3087

9. API Well No.  
30-015-33247

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface 990FNL 990FEL  
 At top prod interval reported below 990FNL 990FEL  
 At total depth 990FNL 990FEL

10. Field and Pool, or Exploratory  
EMPIRE; GLORIETA YESO E

11. Sec., T., R., M., or Block and Survey  
or Area Sec 29 T17S R29E Mer NMP

12. County or Parish  
EDDY  
 13. State  
NM

14. Date Spudded  
06/05/2002  
 15. Date T.D. Reached  
06/15/2002  
 16. Date Completed  
 D & A  Ready to Prod.  
01/08/2013

17. Elevations (DF, KB, RT, GL)\*  
3598 GL

18. Total Depth: MD 5551 TVD  
 19. Plug Back T.D.: MD 5520 TVD 5520  
 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
N/A  
 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 K55	48.0		332		350			
12.250	8.625 J55	24.0		851		500			
7.875	5.500 J55	17.0		4436		985			
4.750	4.000 L80	11.6		5551		150			

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	3835							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	3934	5250	3934 TO 4184	0.340	26	OPEN
B)			4450 TO 4650	0.340	26	OPEN
C)			4750 TO 4950	0.340	26	OPEN
D)			5050 TO 5250	0.340	26	OPEN

26. Perforation Record

Depth Interval	Amount and Type of Material
3934 TO 4184	ACIDIZE W/4500 GALS 15% ACID.
3934 TO 4184	FRAC W/136,934 GALS GEL, 157,946# 16/30 BROWN, 21,356# 16/30 SIBERPROP.
4450 TO 4650	ACIDIZE W/3500 GALS 15% ACID.
4450 TO 4650	FRAC W/131,908 GALS GEL, 171,826# 16/30 BROWN, 33,216# 16/30 SIBERPROP.

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	01/27/2014	24	→	61.0	76.0	140.0	39.2	0.60	ELECTRIC P
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	61	76	140	1246	POW	

28a. Production - Interval B

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

Pending BLM approvals will subsequently be reviewed and scanned

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
TANSIL	678		LIMESTONE & DOLOMITE	TANSIL	678
YATES	782		SANDSTONE	YATES	782
QUEEN	1682		SANDSTONE & DOLOMITE	QUEEN	1682
GRAYBURG	2071		SANDSTONE & DOLOMITE	GRAYBURG	2071
SAN ANDRES	2354		DOLOMITE & LIMESTONE	SAN ANDRES	2354
GLORIETA	3803		SANDSTONE	GLORIETA	3803
PADDOCK	3897			PADDOCK	3897
BLINEBRY	4375			BLINEBRY	4375

32. Additional remarks (include plugging procedure):  
Acid, Fracture, Treatment, Cement Squeeze, etc.

Perf 4750 - 4950. Acidize w/4500 gals 15% HCL acid.  
Frac w/56,774 gals gel, 26,815# 16/30 brown sand, 5,826# 16/30 Siberprop.  
Perf 5050 - 5250. Acidize w/4500 gals 15% HCL acid. Frac w/162,640 gals gel, 116,586# 16/30 brown, 30,268# 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 #255327 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Carlsbad**

Name (please print) CHASITY JACKSON

Title PREPARER

Signature \_\_\_\_\_ (Electronic Submission)

Date 07/31/2014

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.

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