

DISTRICT I

1626 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 and Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37865	Pool Code 96210	Pool Name EMPIRE; GLORIETA-YESO
Property Code 302584	Property Name WHITE OAK STATE	Well Number 21
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3674'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	17-S	28-E		1035	NORTH	990	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=664006.5 N X=559064.5 E</p> <p>LAT.=32.825293° N LONG.=104.141057° W</p>			<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Chasity Jackson</i> 10/4/10 Signature Date</p> <p>Chasity Jackson Printed Name</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 11 2010</p> <p>Date Surveyed LA</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Ronald J. Eidson</i> 5/18/10 1044-0702</p>		<p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>

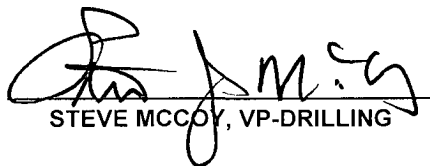
OPERATOR _____ COG _____
WELL/LEASE _____ White Oak St 21 _____
COUNTY _____ Eddy _____

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-37865

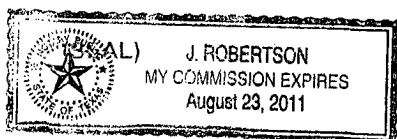
232	0.50
579	0.25
1081	0.27
1557	0.29
2032	0.50
2570	0.56
3046	0.21
3522	0.26
3998	0.92
4474	0.26
4950	0.71
5350	0.75

SIGNED BY:


STEVE MCCOY, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 13th DAY OF October, 2010, BEFORE ME, J ROBERTSON, A NOTARY
PUBLIC, PERSONALLY APPEARED STEVE MCCOY, WHO ACKNOWLEDGED AND EXECUTED
THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.




NOTARY PUBLIC

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-015-37865

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

White Oak State

8. Well Number

21

9. OGRID Number

229137

10. Pool name or Wildcat
Empire; Glorieta-Yeso 96210

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

COG Operating LLC

3. Address of Operator

550 W. Texas Ave., Suite 1300 Midland, TX 79701

4. Well Location

Unit Letter A : 1035' feet from the North line and 990' feet from the East lineSection 23 Township 17S Range 28E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3674' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐OTHER: ☐OTHER: Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work).. SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

9/7/10 Test casing to 3,500 psi for 30 mins. Ok.

9/8/10 Perf Lower Blinebry @ 4810-5010 w/ 1 SPF, 26 holes.

9/10/10 Acidize w/2,500 gals acid. Frac w/114,850 gals gel, 148,363# 16/30 Ottawa Sand, 27,871# 16/30 Super LC. Set comp plug @ 4770. Perf Middle Blinebry @ 4540-4740 w/1 SPF, 26 holes. Acidize w/2,500 gals acid. Frac w/ 116,912 gals gel, 158,384# 16/30 Ottawa Sand, 23,339# 16/30 Super LC. Set comp plug @ 4500. Perf Upper Blinebry @ 4270-4470 w/ 1 SPF, 26 holes. Acidize w/2,500 gals acid. Frac w/ 115,679 gals gel, 152,169# 16/30 Ottawa Sand, 4,081# 16/30 Super LC.

9/14/10 Drill out plugs. Clean out to PBTD 5310. RIH w/152jts 2-7/8" J55 6.5# tbg, SN @ 4792.

9/16/10 RIH w/ 2-1/2"x2-1/4"x24' pump. Hang on well.

Spud Date:

8/14/10

Rig Release Date:

8/21/10

RECEIVED

OCT 22 2010

NMOCD ARTESIA

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Chasity Jackson TITLE Agent for COG DATE 10/4/10Type or print name Chasity Jackson E-mail address: cjackson@conchoresources.com PHONE: 432-686-3087

For State Use Only

APPROVED BY: Daniel Gray TITLE Field Supervisor DATE 10-28-10
Conditions of Approval (if any):

<div>Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies 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</div>		<div>State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505</div>		<div>Form C-105 Revised June 10, 2003</div>	
		WELL API NO. 30-015-37865		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
		State Oil & Gas Lease No.			
WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____			7. Lease Name or Unit Agreement Name White Oak State		
b. Type of Completion: NEW <input checked="" type="checkbox"/> WORK <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> DIFF. WELL OVER BACK RESVR. <input type="checkbox"/> OTHER					
2. Name of Operator COG Operating LLC			8. Well No. 21		
3. Address of Operator 550 W. Texas Ave., Suite 1300 Midland, TX 79701			9. Pool name or Wildcat Empire; Yeso 96210		
4. Well Location Unit Letter A : 1035' Feet From The North Line and 990 Feet From The East Line Section 23 Township 17S Range 28E NMPM Eddy County					
10. Date Spudded 8/14/10		11. Date T.D. Reached 8/20/10		12. Date Compl. (Ready to Prod.)	
				13. Elevations (DF& RKB, RT, GR, etc.) 3674 GR	
15. Total Depth 5350		16. Plug Back T.D. 5310		17. If Multiple Compl. How Many Zones?	
				18. Intervals Drilled By Rotary Tools Cable Tools X	
19. Producing Interval(s), of this completion - Top, Bottom, Name 4270' - 5010' Yeso				20. Was Directional Survey Made No	
21. Type Electric and Other Logs Run CN / HNGS, Micro CFL / HNGS				22. Was Well Cored No	
23. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT LB./FT.		DEPTH SET	
8 5/8		32		263	
5-1/2		17		5350	
24. LINER RECORD					
SIZE		TOP		BOTTOM	
25. TUBING RECORD					
SIZE		DEPTH SET		PACKER SET	
2-7/8		4792'			
26. Perforation record (interval, size, and number)					
4270' - 4470'		1 SPF, 26 holes		OPEN	
4540' - 4740'		1 SPF, 26 holes		OPEN	
4810' - 5010'		1 SPF, 26 holes		OPEN	
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
4270' - 4470'		See attachment			
4540' - 4740'		See attachment			
4810' - 5010'		See attachment			
28. PRODUCTION					
Date First Production 9/25/10		Production Method (Flowing, gas lift, pumping - Size and type pump) 2-1/2 x 2-1/4 x 24' pump		Well Status (Prod. or Shut-in) Producing	
Date of Test 9/26/10		Hours Tested 24		Choke Size Prod'n For Test Period Oil - Bbl 52	
				Gas - MCF 22	
				Water - Bbl. 400	
				Gas - Oil Ratio	
Flow Tubing Press.		Casing Pressure		Calculated 24-Hour Rate	
				Oil - Bbl. Gas - MCF Water - Bbl.	
				Oil Gravity - API - (Corr.) 37.8	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold				Test Witnessed By Kent Greenway	
30. List Attachments Logs, C102, C103, Deviation Report, C104					
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief					
Signature E-mail Address		Printed Name Chasity Jackson Title Agent For COG Date 10/4/10			

WHITE OAK STATE #21
API#: 30-015-37865
EDDY, NM

C-105 (#27) ADDITIONAL INFORMATION

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4270' - 4470'	Acidize w/ 2,500 gals acid.
	Frac w/ 115,679 gals Silverstem,
	and 152,169# 16/30 Ottawa sand, 4,081# SLC

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4540' - 4740'	Acidize w/ 2,500 gals acid.
	Frac w/ 116,912 gals Silverstem,
	158,384# 16/30 Ottawa sand, 23,339# SLC

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4810' - 5010'	Acidize w/ 2,500 gals acid.
	Frac w/ 114,850 gals Silverstem,
	148,363# 16/30 Ottawa sand, 27,871# SLC