# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

## 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

FORM	APPROVED
OMB N	O 1004-0135
Expires	July 31, 2010

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

5.	Lease Serial No.	
	OV8VIVATARAO	

6 If Indian, Allottee or Tribe Name

			MAY 20	2009	0 11 11 11 11 11		
Type of Well ☐ Gas Well ☐ Oth	er		apr Ac	Teria	8 Well Name and No. WHITE STAR FEI	DERAL 15 🦿	
2 Name of Operator COG OPERATING LLC		CANICIA CAF onchoresource			9 API Well No 30-015-31532	A <sup>c</sup>	
3a Address 550 WEST TEXAS AVE STE MIDLAND, TX 79701	1300	3b Phone No Ph: 432-68	(include area code 5-4332	e)	10 Field and Pool, or EMPIRE;GLORI		EAST
4 Location of Well (Footage, Sec., T	, R, M, or Survey Description)	)			II County or Parish,	and State	
Sec 29 T17S R29E 990FNL 2	310FEL ,				EDDY COUNTY	, NM	
12. CHECK APPF	COPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHER	R DATA	
TYPE OF SUBMISSION	*		TYPE C	OF ACTION			
□ Notice of Intent □ Subsequent Report □ Final Abandonment Notice	☐ Acidize ☐ Alter Casing ☐ Casing Repair ☐ Change Plans	□ New	ture Treat Construction and Abandon	Reclama Recomp	olete arily Abandon	□ Water Sh □ Well Inte	
13 Describe Proposed or Completed Ope	Convert to Injection	□ Plug		□ Water I			
following completion of the involved testing has been completed. Final At determined that the site is ready for fice COG Respectfully request to complete the second secon	rue and correct	od only after all stores.  SEE CON	ATTACH	IED FOR	n, have been completed,	0-4 shall be file and the operator	d once
14. Thereby certify that the foregoing is	Electronic Submission #6	60273 verified PERATING L	l by the BLM We .C, sent to the 0	ell Informatior Carlsbad	System		
Name (Printed/Typed) KANICIA	CARRILLO		Title PREP	ARER			
Signature (Electronic S	,	`	Date 05/13/				
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SAPPROV	ED	
Approved By  Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the section 1001 and Title 43	uitable title to those rights in the act operations thereon  U.S.C. Section 1212, make it a	crime for any p	Title Office erson knowingly a	nd willfully to n	MAY 26 20 MAY 26	Date	United .
States any false, fictitious or fraudulent	statements or representations as	to any matter w	thin its jurisdiction	on.		11661	

## White Star Federal 15 May 26, 2008 Conditions of Approval

- 1. Work to be complete within 180 days.
- 2. Variance for stand-off of less than 0.422" is approved due to being in the same formation classification.
- 3. Variance granted for minimum tie back of 150'. When plugged, cement plug will be required across this tie back.
- 4. Variance for not testing seal also approved since deepening is in same formation.
- 5. Radial CBL to be run. Submit copy to BLM.
- 6. Surface disturbance is not to exceed existing pad without prior approval.
- 7. Steel tanks to be used.
- 8. BOP to be tested to 1000 psi based on BHP expected.
- 9. Subsequent sundry and completion report required when work is complete.

WWI 052608

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

## State of New Mexico

Energy, Minerals & Natural Resources Department

## OIL CONSERVATION DIVISION

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

Signature and Seal of Professional Surveyor

Certificate Number

1000 Rio Brazos R	d Aztec N	M 87410		12	220 South St.	Francis Dr.		Fee	Lease - 3 Copie
District IV	,				Santa Fe, N	M 87505		100	zeuse z cop.e
220 S. St. Francis	s Dr., Santa	Fe, NM 87505						AME	NDED REPOR
		V	ELL LO	OCATIO1	N AND ACR	EAGE DEDIC	CATION PLA	T	
1	API Numbe	r		<sup>2</sup> Pool Code	:		<sup>3</sup> Pool Nan	ne	
30-	015-315	532		96610		Em	pire; Glorieta	a-Yeso, East	
<sup>4</sup> Property	Code				<sup>5</sup> Property	Name		· w	ell Number
302585 OGRID No. 229137				White Star Federal					15
				. , , , , , , , , , , , , , , , , , , ,	8 Operator	Name		9	Elevation
				COG OPERATING LLC					3607
					<sup>10</sup> Surface	Location			
L or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	17S	29E		990	North	2310	East	Eddy
			11 Bc	ottom Ho	le Location I	Different From	n Surface		
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Count
Dedicated Acre	s Doint o	r Infili 14 (	Consolidation	Code 1 Or	der No.				
40			_						
O ALLOW	ABLE WI	LL BE AS						EEN CONSOLIDA	TED OR A N
		<u> </u>	STAN	DARD UN	IIT HAS BEEN	APPROVED BY			
				1			41	ERATOR CERT	
					0		ll '	rtify that the information	
					,066	2310'	is true and	complete to the best of	my knowledge a
				0	₫		→ be lief.		
							I K		
							Signature		
				_			Kanici	a Carrillo	
							Printed Name		
							Regula	atory Analyst	
							Title and E-m	ail Address	
				[			05/12	2/0 <b>8</b>	
							Date	3700	
							1807.773	TEXAD OFF	TELO ATTO
								VEYOR CERT	
							l ·	otted from field notes o	
		1					B	e or under my supervis	•
							-	e and correct to the be.	
							l l	riginal Survey	,, ocnej.
					•		Date of Surve	ev	
				,			n		

#### WHITE STAR FED #15 DEEPENING PROGRAM

#### 1. Estimated Tops of Important Geologic Markers

Yeso Group 3900'

#### 2. Estimated Depths of Anticipated Fresh Water, Oil, and Gas

**OD** Casing

Yeso Group

This deepening originates in the Yeso and will finish at the base of the Yeso. The entire Yeso group is an oil and gas bearing interval.

11.6 noll

3. Casing Program

Interval

4416' - 5600'

Hole Size

4-3/4"

	Weight	Grade	Jt./Condition	Burst/collapse/tension		
	14:3#	L-80	ULT-FJ/New	3.07/3.16/3.37		

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 0.422" STAND OFF RULE BETWEEN CASING AND WELLBORE. See COA

4. Cement Program

Class C, 115 sxs, yield 1.37. 75 minimum tie back to production casing.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE LINER TOP FLUID ENTRY OR PRESSURE TEST BECAUSE THE DEEPENED WELL WILL BE COMPLETED IN THE SAME ZONE AS THE CURRENT PERFS AND THE ENTIRE INTERVAL IS RECOGNIZED BY THE OCD AS ONE INTERVAL (YESO). AS PER ONSHORE ORDER NO. 2 SECT III: REQUIREMENTS, PART B. CASING AND CEMENTING REQUIREMENTS, SUBPART b. "NO TEST SHALL BE REQUIRED FOR LINERS THAT DO NOT INCORPORATE OR NEED A SEAL MECHANISM." COG BELIEVES WE MEET THE CRITERIA TO NOT BE REQUIRED TESTING THE LINER TOP BECAUSE THERE IS NO NEED FOR A SEAL MECHANISM.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 200' MINIMUM JIE BACK TO THE PRODUCTION CASING BECAUSE THE LOWEST PERFORATION IS AT 4274'. THE 75' WILL ALLOW US TO NOT COVER EXISTING PERFORATIONS. 4174 See COA

#### 5. Minimum Specifications for Pressure Control

The BOP equipment will be a 3000 psi double ram type manually operated preventer. This equipment will be nipple up to a 7-1/16" 3K flange. The pipe rams are located above blind rams. There is no choke or kill manifold. The BOP is tested to 500 psi prior to drilling new formation. Access to the annulus will be through the valves on the 5-1/2" casing head.

#### 6. Types and Characteristics of the Proposed Mud System

This well will drilled from end of the existing 5-1/2" casing to TD with 2% KCl.

#### 7. Auxillary Well Control and Monitoring Equipment

A. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

#### 8. Logging, Testing, and Coring Program

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 5-1/2" production casing shoe.
- B. No drill stem tests.

- C. No conventional coring anticipated.
- D. Further testing procedures will be determined after the 4" liner has been cemented at TD, based on drill shows and log evaluation.

#### 9. Abnormal Conditions, Pressure, Temperatures, and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottomhole temperature at TD is 110 degrees and the estimated maximum bottomhole pressure is 2300 psig. The drilling starts in the Yeso and ends in the Yeso. The section of Yeso being drilled has very low permeability (less than 1 md).

### 10. Anticipated Starting Date and Duration of Operations

There will be no road or location work required as this is an existing well location. Once commenced, drilling operations should be finished in approximately 14 days. If the well is productive; an additional 30 days will be required for completion and testing before a decision is made.

#### 11. Centralizer Program

Fixed blade stabilizer subs will be utilized in the casing string to insure adequate isolation and seal throughout the wellbore. These stabilizer subs are positive fixed blade type. These subs will actually be screwed into the casing string. A diagram of the fixed blade stabilizer sub is located at the end of this program.

The standard location of the stabilizers will be the following:

Shoe Location

Guide shoe, 1 jt casing, stabilizer sub, float collar, 1 jt casing, stabilizer sub

Perf Interval Location – between perf intervals Stabilizer sub, 1 jt casing, stabilizer sub

Top of Liner Location

DV tool, 1 jt casing, stabilizer sub, 1 jt casing, stabilizer sub

#### 12. Summary Drilling and Completion Program

#### Deepening Procedure

- 1. MIRU rig.
- 2. PU 4-3/4" bit and drill 4-3/4" from 4416' to 5600'.
- 3. POOH w/ bit and drillstring.
- 4. RIH w/ logs and log from TD to 4350'.
- 5. RIH w/4", 11.3# casing. See section 11 for general centralizer program.
- 6. Cement casing from TD to 4336' w/ 115 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.
- 7. PU workstring and RIH and drill out DV tool. POOH and LD workstring.
- 8. RDMO rig.

#### **Completion Procedure**

- 1. MIRU rig.
- 2. RIH/ w/ perforating guns and perforate Yeso from 5300 5500 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand. Set plug at 5250'.
- 4. RIH w/ perforating guns and perforate Yeso from 5000' 5200'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand. Set plug at 4950'.
- 6. RIH w/ perforating guns and perforate Yeso from 4700' 4900'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand.
- 8. RIH and drill out plug at 4950' and 5250'.
- 9. RIH and cut or back off 4" casing at 4336'. POOH w/ 4" casing. Leave 4" liner from 4336' to 5600' (TD).
- 10. RIH w/ tbg and locate end of tbg at 4250'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.

また。 ナロロ	ACTACES  367-55-51  367-55-51  367-55-51  367-55-51  367-55-51  367-51
RAY OIL TOOL CO.  STRANG FOR SAY OIL TOOL CO.  CASING 47 F15 14 6 66  WELL MARIE & NO.  CASING 47 F15 14 6 66  WELL WARE & NO.  CASING 47 F15 14 6 66  WELL WARE & NO.  CASING 47 F15 14 6 66  CASING 47 F15 14 6 6 66  CASING 47 F15 14 6 6 6 6 6 6 6 6 6 6	PL-CE C

į