~	UNITED STATES EPARTMENT OF THE IN BUREAU OF LAND MANAG	ITERIOR "Crator C	opy .	FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010		
SUNDRY Do not use th abandoned we	NMN	 Lease Serial No. NMNM14840 If Indian, Allottee or Tribe Name 				
SUBMIT IN TR	7. If Unit	If Unit or CA/Agreement, Name and/or No.				
. Type of Well Ba Oil Well Gas Well Ot		8. Well Name and No. WHITE STAR FEDERAL 20				
Name of Operator COG OPERATING LLC		9. API Well No. 30-015-32247				
a. Address ONE CONCHO CENTER 600 MIDLAND, TX 79701	W ILLINOIS AVENUE		10. Field and Pool, or Exploratory EMPIRE;GLORIETA-YESO,EAST			
Location of Well (Footage, Sec.,	11. Coun	11. County or Parish, and State				
Sec 29 T17S R29E 990FNL 9	990FEL		EDD	EDDY COUNTY, NM		
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, REPORT, (DR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION				
Notice of Intent		🛛 Deepen	Production (Start/	Resume) Water Shut-Off		
-	□ Alter Casing	Fracture Treat	□ Reclamation	□ Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplete	□ ^{Other}		
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Aban	don		
	Convert to Injection	Plug Back	□ Water Disposal			
following completion of the involved testing has been completed. Final A determined that the site is ready for the COG Opperating LLC respect	bandonment Notices shall be file final inspection.) tfully request to deepen the	ed only after all requirements, inclu 9 White Star Federal 20.	iding reclamation, have bee	n completed, and the operator has		
Deepening Procedure 1. MIRU rig. 2. LD production equipment 3. Sqz upper Yeso w/ +/-400s 4. Drill out squeeze. Test sq chart recorder 5. PU 4-3/4? bit and drill 4-3/4 6. POOH w/ bit and drill string 7. RIH w/ logs and log from T 8. RIH w/ 4?, 11.3# casing. S	strue and correct			NIVIOCD W/20/ PPROVED W/20/ NOV 19 2002 SP & Tommer Christian		
8. HIH W/ 4?, 11.3# casing. 5	see next anachment for ge s true and correct. Electronic Submission #1 For COG OI	49438 verified by the BLM Wo PERATING LLC, sent to the C	ell Information System Carlsbad ONS on 09/20/2012 ()	PPROVEU NOV 19 2012 SOL FAND MANAGEMENT CARLOMANTELO OFFICE		
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CONDITIONS OF APPROVAL

Additional data for EC transaction #149438 that would not fit on the form

32. Additional remarks, continued

program. 9. Cement casing from TD to 4361? w/ 115 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool. 10. PU workstring and RIH and drill out DV tool. POOH and LD workstring. 11. RDMO rig.

Completion Procedure 1. MIRU rig.

2. RIH/ w/ perforating guns and perforate Yeso from 5150 ? 5350w/1spf, 28

5. Actilize w/ 2500 gais of 15% HCI. Frac zone w/ 179,800 # of sand. Sat plug at 4800'
6. RIH w/ perforating guns and perforate Yeso from 4550? ? 4750?.
7. Acidize w/ 2500 gais of 15% HCI. Frac zone w/ 179,800 # of sand.
8. RIH and drill out plug at 4800? and 5100?.
9. RIH and cut or back off 4? casing at 4361?. POOH w/ 4? casing. Leave 4? liner from 4361? to 5750? (TD).
10. RIW w/ the sad least act of the at 42002.

10. RIH w/ tbg and locate end of tbg at 4200?.

11. RIH w/ rods and pump.

12. RDMO rig.

3. Acidize w/ 2500 gals of 15% HCI. Frac zone w/ 179,800 # of sand. Set
9. Proprior ating guns and perforate Yeso from 4850? ? 5050?.
5. Acidize w/ 2500 gals of 15% HCI. Frac zone w/ 179,800 # of sand. Set
9. Provide the set of the set of

CONDITIONS OF APPROVAL

COG Operating LLC NMNM14840 White Star Federal 20 30-015-32247 Section 29, T. 17 S., R 29 E., NMPM Eddy County, New Mexico

- 1. Surface disturbance beyond the existing pad must have prior approval.
- 2. Closed loop system required.
- 3. H2S monitoring equipment should be onsite for personnel protection from surrounding oil operations. Operator should not encounter H2S while deepening.
- 4. 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 5. BOP to be tested to 1000 psi based on expected BHP
- 6. Variance for stand-off of less than 0.422" is approved due to NMOCD classifying the formations in this area as the Yeso group Pool 96610.
- 7. Variance for not testing seal also approved based on NMOCD classification of formations in this area as the Yeso group Pool 96610.
- 8. Variance approved for a minimum tie back of 100'. When plugged, cement plug will be required across this tie back and across squeezed perforations.
- 9. If cement does not circulate to DV tool, the appropriate BLM office is to be notified.
- 10. Test casing as per Onshore Order 2.III.B.1.h
- 11. Steel tanks to be used.
- 12. Work to be completed in 90 days
- 13. Subsequent sundry and completion report required when work is complete.

EGF 111912

White Star #20 DEEPENING PROGRAM

1. Estimated Tops of Important Geologic Markers

Yeso Group +/- 4250'

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

Yeso Group +/- 4250'

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.

3. Casing Program

Hole Size	Interval	OD Casing	Weight	Grade**	Jt./Condition	Burst/collapse/tension
4-3/4"	4405' - 6000'	4″	11.3#	L-80 or	ULT-FJ/New	3.98/4.09/3.21 (L80)
				P-110		5.47/5.23/4.25 (P110)

** Due to casing shortages, either L-80 or P-110 will be run. The exact grade is unknown at time of requesting permit.

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

4. Cement Program

4" Liner: Class C, 115 sxs, yield 1.37. 100' 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 TIE BACK TO THE PRODUCTION CASING BECAUSE THE LOWEST PERFORATION IS AT 4557'. THE 100' WILL ALLOW US TO SEE ATTACHED FOR NOT COVER EXISTING PERFORATIONS. CONDITIONS OF APPROVAL

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 spip 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

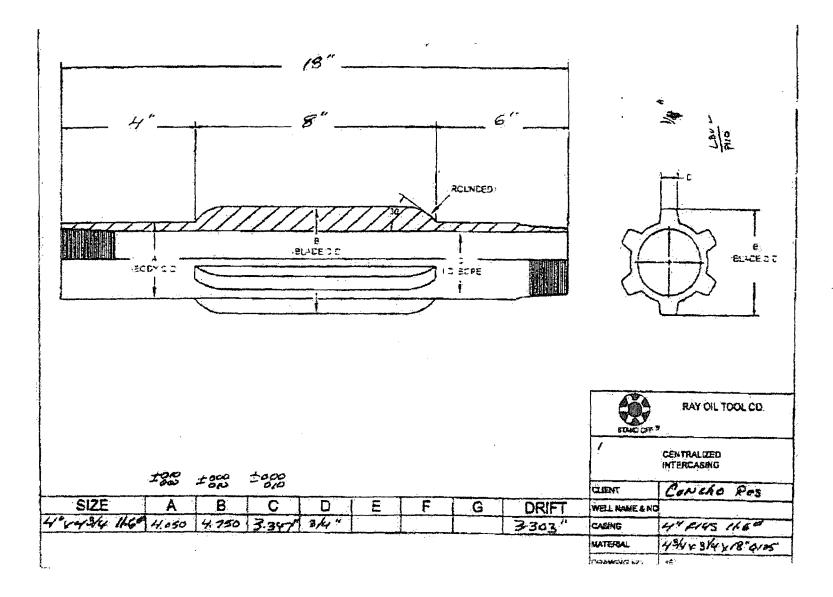
- 1. MIRU rig.
- 2. LD production equipment
- 3. Sqz upper Yeso w/ +/-400sx of Class C neat.
- 4. Drill out squeeze. Test squeeze to 500 psi for 20 minutes using chart recorder.
- 5. PU 4-3/4" bit and drill 4-3/4" from 4436' to 5750'.
- 6. POOH w/ bit and drillstring.
- 7. RIH w/ logs and log from TD to 4400'.
- 8. RIH w/ 4", 11.3# casing. See next attachment for general centralizer program.
- Cement casing from TD to 4361' w/ 115 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.

10. PU workstring and RIH and drill out DV tool. POOH and LD workstring.

11. RDMO rig.

Completion Procedure

- 1. MIRU rig.
- 2. RIH/ w/ perforating guns and perforate Yeso from 5150 5350 w/ 1 spf, 28 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5100'.
- 4. RIH w/ perforating guns and perforate Yeso from 4850' 5050'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 4800'.
- 6. RIH w/ perforating guns and perforate Yeso from 4550' 4750'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand.
- 8. RIH and drill out plug at 4800' and 5100'.
- 9. RIH and cut or back off 4" casing at 4361'. POOH w/ 4" casing. Leave 4" liner from 4361' to 5750' (TD).
- 10. RIH w/ tbg and locate end of tbg at 4200'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.



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COG Operating LLC NMNM14840 White Star Federal 20 30-015-32247 Section 29, T. 17 S., R 29 E., NMPM Eddy County, New Mexico

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