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

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

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

AUG 18 2008

HOBBS OIL

WELL API NO. 30-025-01550	
Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name: SEMGSAU	
8. Well Number 704	
9. OGRID Number 005380	
10. Pool name or Wildcat Maljamar; Grayburg-San Andres	
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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection <input checked="" type="checkbox"/>	
2. Name of Operator XTO Energy, Inc.	
3. Address of Operator 200 N. Loraine, Ste. 800 Midland, TX 79701	
4. Well Location Unit Letter I : 1650' feet from the South line and 990' feet from the East line Section 29 Township 17S Range 33E NMPM County Lea	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/> Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: OAP in Grayburg, RWTP <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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.

Please see attached for Procedure.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Kristy Ward TITLE Regulatory Analyst DATE 08/06/08  
Type or print name Kristy Ward E-mail address: kristy\_ward@xtoenergy.com  
Telephone No. 432-620-6740

For State Use Only  
APPROVED BY Larry W. Hill TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE AUG 28 2008  
Conditions of Approval, if any:



**SEMGS AU #704 REACTIVATION PROCEDURE**  
**LEA COUNTY, NEW MEXICO**  
**JULY 9, 2008**

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**ELEVATION:** PBTD – 4360' (1954 PBTD) KB – 4095' (DF)  
TD - 4377' GL – 4084.5'

**WELL DATA:**

Surface Casing: 8 5/8", 32 ppf. Set at 297'. Cemented with 300 sx.  
Circulated.

Prod Casing: 5-1/2", 15.5 ppf, Set at 4246'. Cemented with 800 sx.  
Did not circulate, TOC @ 1800'

**PERFORATIONS:** Open Hole – 4246'-4360' (Premier/San Andres)  
Open Hole size unknown but assumed to 4 3/4"

**OBJECTIVE:** Well is currently TA'd. Reactivation procedure will involve  
1) **Repair possible csg leak (2 BPM @ 425 psi in 5/2005)**  
2) **Frac OH interval**  
3) **OAP Grayburg & Frac Grayburg**  
4) **Put all intervals on production**

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**RECOMMENDED PROCEDURE**

1. MIRU PU. RU Reverse Unit.
2. Load & Test 5 1/2" csg to 500 psi. If OK proceed with step #5. If test fails then PU 2 7/8" WS and packer. Locate csg leak and get injection rate. POH w/ packer & WS.
3. RIH w/ CICR and set above csg leak. RU cementing company and squeeze csg leak with cement volumes to be determined. RD cementing company. WOC for necessary time.
4. RIH w/ 4 1/2" bit and DO CICR and cement. Test squeeze to 500 psi. If squeeze holds then continue with procedure. If squeeze does not hold then procedure to be determined.
5. RIH w/ 4 1/2" bit on WS to CIBP @ 4157'. Drill out CIBP and continue in hole to PBTD (4360' based on 1954 data). If possible circulate hole clean with 2% KCL. POH w/ 2 7/8" WS & bit. LD bit. RD Reverse Unit.

**PREMIER / SAN ANDRES ACID STIM & SWAB TEST**

6. TIH w treating packer on 2 7/8" WS. Set packer @ +/-4175'.
7. RU acid company. Pump 3000 gal (71 bbls) 15% HCL @ 4-6 BPM. *Maximum pressure should be 4000 psi.* After acid is pumped, flush with 2% KCL water. RD acid company.



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8. Flow well back with steel lines to frac tanks until well dies.
9. RU swab & swab OH interval. Report swab results to Midland engineering.
10. Release packer & POH w/ pkr & WS.

**PREMIER & SAN ANDRES FRACTURE TREATMENT**

11. PU 3 1/2" WS. TIH w/ 3 1/2" WS & pkr. Test in hole below slips to 6000 psi. Set packer @ +/- 4175'.
12. RU BJ Services & Protechnics. Pump 67,000 gallons (1595 bbls) 30# linear gel, 51,000 gallons (1214 bbls) 40# linear gel carrying 8,000 lbs 14/30 LiteProp-125, 84,750 lbs 16/30 White Sand & 18,000 lbs 16/30 Super LC Sand per the attached treating schedule. ***Attempt to achieve 45 bpm at maximum pressure of 5000 psi.*** Flush 1 bbl short of top perf (~ 37 bbls) with 40# linear gel. After job is complete, obtain ISIP, 5, 10 & 15 min SI pressures. RD BJ Services & Protechnics. Leave well SI for 4 hour at a minimum. ***NOTE: XTO needs to supply 7 frac tanks full of clean fresh water.***
13. Flow well back with steel lines to frac tank until well dies.
14. Release packer & TOH w/ WS & pkr.

**GRAYBURG OAP & SWAB TEST**

15. RU WL. RIH w/ WL & set composite BP @ +/- 4175'. POH w/ WL
16. RIH w/ casing guns loaded 1 SPF. Correlate to Perforating Guns Atlas Corp. Simultaneous Radiation Log ran on 10/26/1954. Perf following GB intervals  

I) 4021'-4045'	24'	24 total holes
Totals	24'	24 total holes

POH w/ WL. RD WL.
17. TIH w/ treating packer on 2 7/8" WS. Set packer @ +/- 3925'.
18. RU acid company. Pump 1300 gal (31 bbls) 15% HCL & 35 Ball Sealers @ 4-6 BPM. Drop BS periodically throughout last 3/4 of job. ***Maximum pressure should be 4000 psi.*** After acid is pumped, flush with 2% KCL water. RD acid company.



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19. Flow well back with steel lines to frac tanks until well dies.
20. RU swab & swab Grayburg perms (4021-4045). Report swab results to Midland engineering.
21. Release packer & POH w/ pkr & WS.

**GRAYBURG FRACTURE TREATMENT**

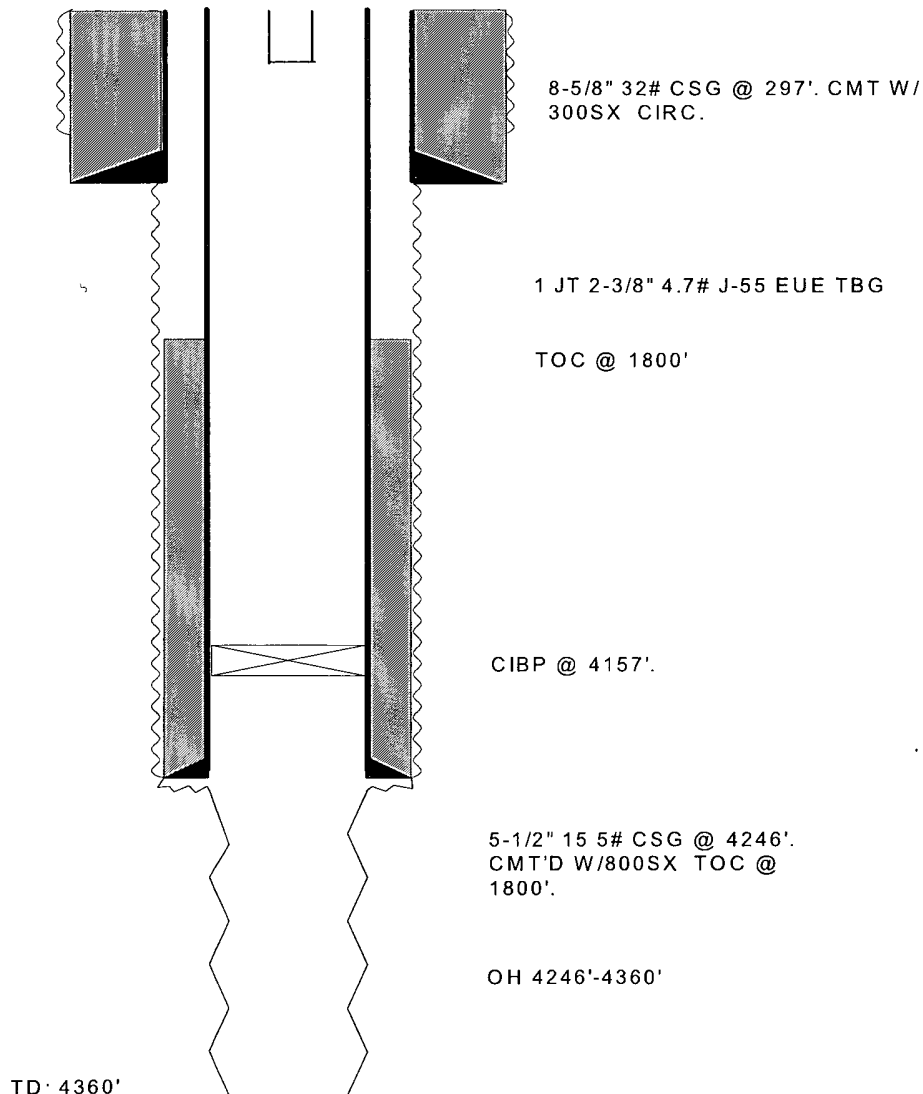
22. PU 3 ½" WS. TIH w/ 3 ½" WS & pkr. Test in hole below slips to 6000 psi. Set packer @ +/- 3925'.
23. RU BJ Services & Protechnics. Pump 53,000 gallons (1262 bbls) 30# linear gel, 51,000 gallons (1214 bbls) 40# linear gel carrying 8,000 lbs 14/30 LiteProp-125, 84,750 lbs 16/30 White Sand & 18,000 lbs 16/30 Super LC Sand per the attached treating schedule. ***Attempt to achieve 45 bpm at maximum pressure of 5000 psi.*** Flush 1 bbl short of top perf (~ 35 bbls) with 40# linear gel. After job is complete, obtain ISIP, 5, 10 & 15 min SI pressures. RD BJ Services & Protechnics. Leave well SI for 4 hour at a minimum. ***NOTE: XTO needs to supply 6 frac tanks full of clean fresh water.***
24. Flow well back with steel lines to frac tank until well dies.
25. Release packer & TOH w/ WS & pkr. LD 3 ½" WS.
26. RU Reverse Unit. TIH w/ 2 7/8" WS & bit to composite BP +/- 4175'. Drill out composite. Continue in hole & clean out to PBSD (4360'). TOH & LD WS. RD Reverse Unit.
27. RU Protechnics. Run SpectraScan Image After Frac Log. RD Protechnics.



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28. TIH w/ 2 7/8" prod tbg. ND BOP. NU WH. TIH w/ rods & pump. Rod & pump design per Larry Stasny. RD PU. POP.

# SEMGSAU #704 WIW WELLBORE DIAGRAM



## DATA

### LOCATION:

**COUNTY/STATE:** LEA COUNTY, NEW MEXICO

**FIELD:** MALJAMAR GRAYBURG SAN ANDRES

**FORMATION:** GRAYBURG

**NMOCD LEASE NO:** 003355 **API #:** 30-025-01550

**XTO ACCTG #:** 450

**PRODUCTION METHOD:** TA'D.

## HISTORY

**10/06/54:** SPUD WELL.

**10/08/54:** SET 8-5/8" CSG @ 297'. CMT'D W/300 SX. CIRC.

**10/25/54:** SET 5-1/2" CSG @ 4246'. CMT'D W/800 SX. DID NOT CIRC.

**11/01/54:** DRLD OH TO 4360' FRAC'D W/15000 GALS & 15000 # SD (1 PPG). IPF 960 BOPD, 0 BWPD, FTP 900 PSIG, GOR TSTM

**05/20/56:** FRAC'D W/30000 GALS LEASE CRUDE & 30000# SD (1 PPG).

**04/19/60:** A W/1000 GALS 15%. BEFORE: 9 BOPD, 3 BWPD, 37 MCFPD AFTER: 30 BOPD, 32 BWPD, 94 MCFPD.

**07/13/61:** A. W/1500 GALS 15%. BEFORE: 12 BOPD, 5 BWPD, 39 MCFPD AFTER: 20 BOPD, 13 BWPD.

**08/29/72:** P. 28 BOPD, 47 BWPD. LD RODS & TBG.

**09/14/72:** RAN INJ EQT. SET GUIBERSON PKR @ 4100'.

**09/26/72:** CWTI. INJ 400 BWPD @ 1000 PSIG.

**??/83:** STOPPED INJ IN WELL. LAST INJ 15 BWPD @ 2000 PSIG.

**05/16/85:** RAN BIT & SCRAPER TO 4188'.

**05/17/85:** SET CIBP @ 4157'. CIRC WELL W/PKR FLUID. LD TBG. **WELL TA'D.**

**12/10/93:** TSTD CSG TO 300 PSIG FOR 30" HELD OK.

**12/01/01:** TSTD CSG TO 520 PSIG FOR 30" HELD OK.

**5/23/05:** TRIED TO PRESS UP ON CSG, PRESSURED UP TO 425 PSI @ 2 BPM. SD & PRESSURE GOES TO 0 PSI