

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports 55 AUG 21 PM 1:49

1. Type of Well  
GAS

2. Name of Operator  
MERIDIAN OIL

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M  
1300' FNL, 1297' FEL, Sec.30, T-26-N, R-8-W, NMPM

5. Lease Number  
NM-04226  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name  
8. Well Name & Number  
McManus #11  
9. API Well No.  
30-045-05694  
10. Field and Pool  
Basin Fruitland Coal/  
Ballard Pictured Cliffs  
11. County and State  
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment

Type of Action

☐ Abandonment ☐ Change of Plans  
☐ Recompletion ☐ New Construction  
☐ Plugging Back ☐ Non-Routine Fracturing  
☐ Casing Repair ☐ Water Shut off  
☐ Altering Casing ☐ Conversion to Injection  
☒ Other - Stimulate

13. Describe Proposed or Completed Operations

It is intended to stimulate the Fruitland Coal formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED  
AUG 28 1995  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (PMP1) Title Regulatory Administrator Date 8/16/95

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
CONDITION OF APPROVAL, if any:

APPROVED

AUG 22 1995

DISTRICT MANAGER

NMOC

McMANUS #11 FRTC  
Workover Procedure  
A 30 26 8  
San Juan County, N.M.  
Lat-Long: 36.462753 - 107.717606

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
2. Lower tbg to tag fill. If fill is above 2040', C.O. w/air/mist to 2042'. Set blanking plug in S.N. of 2-3/8" tbg @ 2000' & pressure test to 2000 psi. TOH w/64 jts 2-3/8" tbg.
3. Spot and fill 3-400 bbl. frac tanks w/1% KCL water. Filter all water to 25 microns. Two tanks are for gel & one tank for breakdown water. Usable water required for frac is 583 bbls.
4. MI wireline. Run CBL from 2042' to top of cmt (about 1534'). Perf additional FRTC @ 1984'-82' 1928'-24', 1862'-60', 1850'-42', 1832'-28' w/2 SPF. Total 40 holes. Perf using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 90 degrees. Avg. perf dia. = 0.48". Average penetration is 18" in Berea.
5. TIH w/5-1/2" pkr on 3-1/2" 9.3# P-110 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 1700'. (Run 6 jts 2-7/8" N-80 above pkr). Load backside w/1% KCL water. Pressure backside to 500 psi & monitor during breakdown. Breakdown & attempt to balloff perfs w/2000 gal 15% HCL & 95 - 7/8" 1.3 sp gr RCN perf balls. (1 gal/1000 corrosion inhibitor). Record breakdown pressures. Lower pkr to 2042' to knock off balls. PU & reset pkr @ 1750'. Pressure backside to 500 psi & monitor during frac.
6. Fracture treat FRTC down frac string w/81,000 gals. of 70 quality foam using 30# gel as the base fluid & 160,000# 20/40 Arizona sand. Pump at 55 BPM. Monitor bottomhole & surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 4500 psi. Treat per the following schedule:

<b>Stage</b>	<b>Foam Vol. (Gals.)</b>	<b>Gel Vol. (Gals.)</b>	<b>Sand Vol. (lbs.)</b>
Pad	25,000	7,500	---
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	20,000	6,000	60,000
4.0 ppg	10,000	3,000	40,000
5.0 ppg	6,000	1,800	30,000
Flush	( 600)	(180)	0
Totals	81,000	24,300	160,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- |                      |  |
|----------------------|--|
| * 30# J-48           | (Guar Gel mix in full tank - 16,000 gal) |
| * 1.0 gal. Aqua Flow | (Non-ionic Surfactant mix in full tank)  |
| * 1.0# GVW-3         | (Enzyme Breaker mix on fly)              |
| * 1.0# B - 5         | (Breaker mix on fly)                     |
| * 5.0 gal Fracfoam I | (Foamer mix on fly)                      |
| * 0.38# FracCide 20  | (Bacteriacide mix on full tank)          |

HUERFANITO UNIT #51 FRTC - FRAC EXISTING FRTC

7. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. **Take pitot gauges when possible.**
8. Release pkr & TOH w/frac string. TIH w/4-3/4" bit on 2-3/8" tbg & clean out to 2042' w/air/mist.
9. Monitor gas & water returns & **take pitot gauges when possible.**
10. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2042'-1500'.
11. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom & again cleanout to 2042'. When wellbore is sufficiently clean, land tbg @ 1900' KB. **Take final water & gas samples & rates.**
12. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: \_\_\_\_\_  
Drilling Superintendent

VENDORS:

Wireline:	Basin	327-5244
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133
Packers:	Schlum.	325-5006

PMP

## Pertinent Data Sheet - McMANUS #11 FRTC

**Location:** 1300' FNL & 1297' FEL, Unit A, Section 30, T26N, R08W, San Juan County, New Mexico

**Field:** Basin Fruitland Coal      **Elevation:** 6356' GL  
10' KB

TD: 2120'

**PBTD: 2042'**

**Completed:** 6-17-55      **Spud Date:** 5-18-55

**DP #: 50956B**

**Recompleted: 10-5-90**

**Lease: Fed: MN-04226**

**GWI: 100%**

**NRI: 82.00%**

**Prop#: 072260303**

**Initial Potential:** Pitot Gauge FRTC = 77 MCF/D

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24# J-55	105'	80 sx.	Circ Cmt
7-7/8"	5-1/2"	15.5# J-55	2045'	100 sx.	1534' @ 75% Eff.

**Tubing Record:**

<u>Tbg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	
2-3/8"	4.70# J-55	2033'	64 Jts
	SN @ 2000'		

### Formation Tops:

Ojo Alamo:	1454'
Kirtland Shale:	1524'
Fruitland:	1904'
Pictured Cliffs:	2163'

**Logging Record: CNL ('90)**

**Stimulation:** Open Hole fraced w/15,000# sand in diesel.

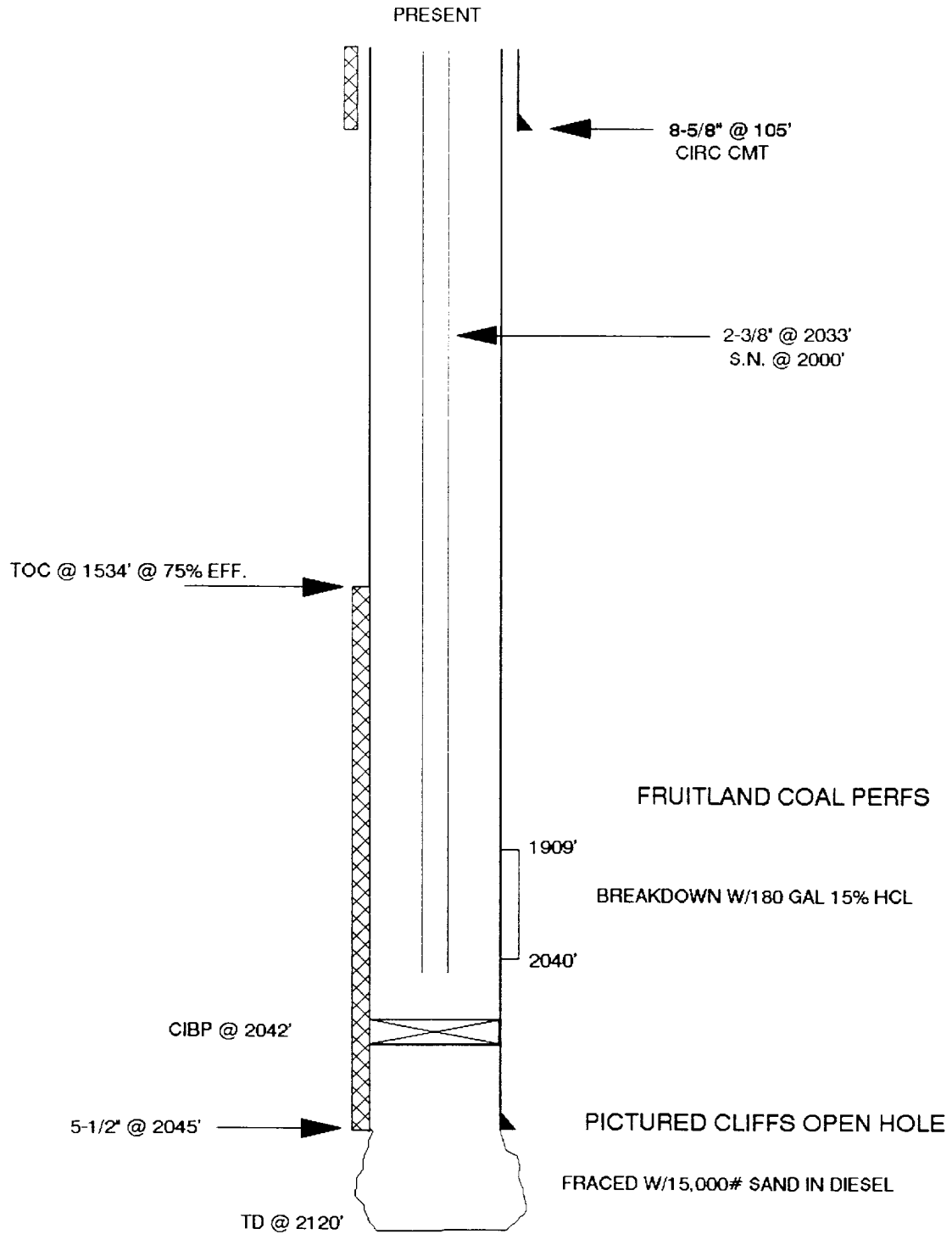
**Workover History:** 10-5-90: TOH w/1" tbg. Set CIBP @ 2042. Spotted 130 gal 15% HCL @ 2037' & perfed FRTC @ 1909'-11', 1947'-49', 1958'-66', 1976'-78', 2036'-40' w/2 spf. Washed perms w/180 gal 15% HCL & swabbed.

**Production History:** FRTC 1st delivered 8-23-91. SBHP = 157 psi @ 2020'. Current FRTC capacity is 20 MCF/D. PC cum is 1,757 MMCF. FRTC cum is 21 MMCF.

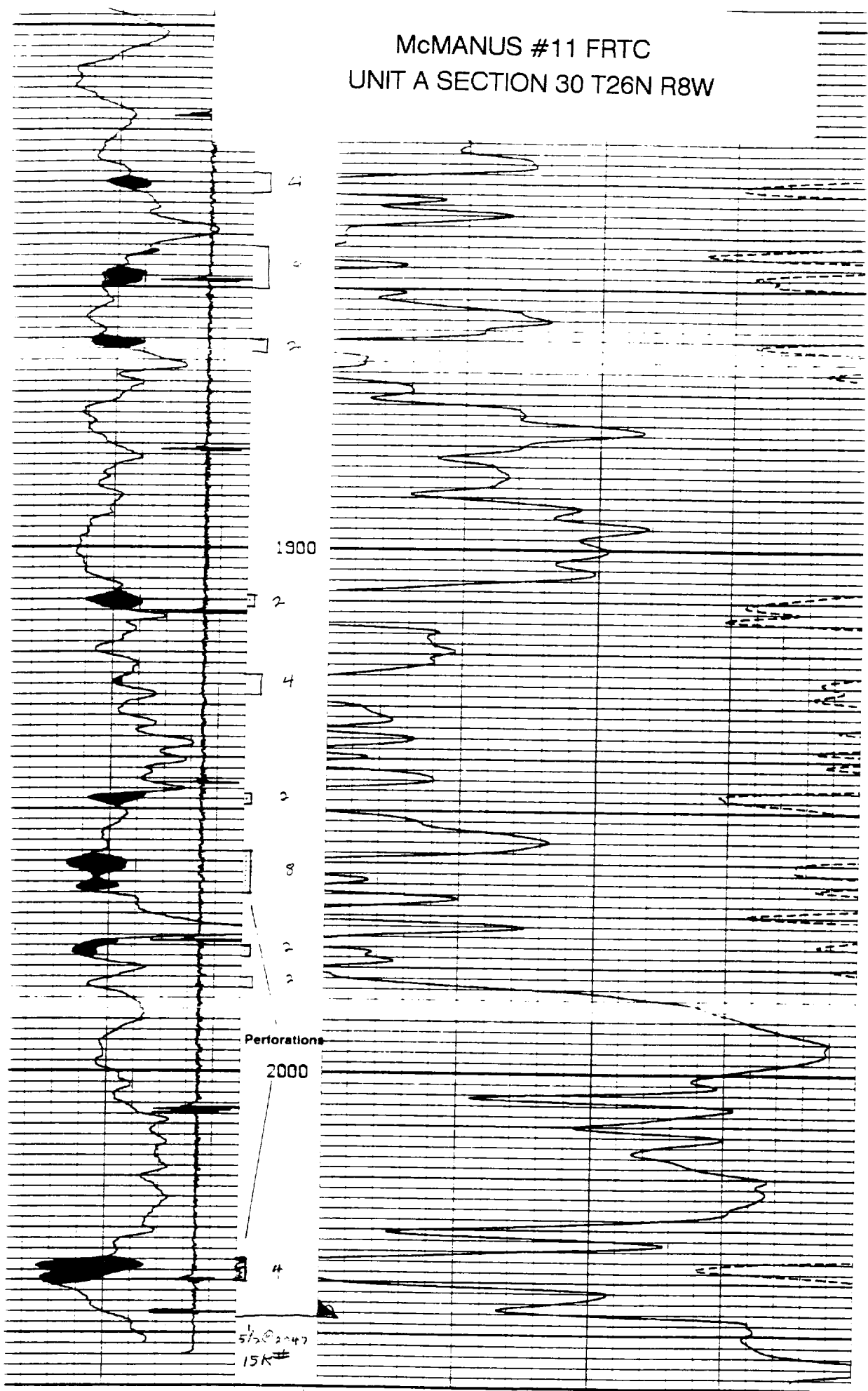
**Pipeline: EPNG**

# McMANUS #11 FRTC

UNIT A SECTION 30 T26N R8W  
SAN JUAN COUNTY, NEW MEXICO



McMANUS #11 FRTC  
UNIT A SECTION 30 T26N R8W



START: 2059 FT SER HP = 157 DATE: 10/01/90 TIME: 16:07  
POROSITY (SAND.)