

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

- |   |   |
|---|---|
| <p>1. Type of Well<br/>GAS</p> <p>2. Name of Operator<br/><b>MERIDIAN OIL</b></p> <p>3. Address &amp; Phone No. of Operator<br/>PC Box 4289, Farmington, NM 87499 (505) 326-9700</p> <p>4. Location of Well, Footage, Sec., T, R, M<br/>990'FSL, 990'FWL, Sec.12, T-26-N, R-9-W, NMPM</p> | <p>5. Lease Number<br/>SF-078388</p> <p>6. If Indian, All. or<br/>Tribe Name</p> <p>7. Unit Agreement Name<br/><br/>Huerfanito Unit</p> <p>8. Well Name &amp; Number<br/>Huerfanito Unit #65</p> <p>9. API Well No.<br/>30-045-05906</p> <p>10. Field and Pool<br/>Basin Fruitland Coal</p> <p>11. County and State<br/>San Juan Co, NM</p> |
|---|---|

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

Type of Submission	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back <input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other -

13. Describe Proposed or Completed Operations

It is intended to frac this existing Fruitland Coal well as per the attached procedure and wellbore diagram.

RECEIVED  
NOV - 3 1994  
OIL CON. DIV.  
DIST. 3

NOV 3 1994  
DISTRICT MANAGER

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

Signed *Regan Mahaffey* (MPL) Title Regulatory Affairs Date 10/21/94

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

CONDITION OF APPROVAL, if any:

MMOCD

APPROVED  
OCT 24 1994  
DISTRICT MANAGER

**Huerfanito Unit #65 FRTC**  
**Frac Procedure**  
**M 12 26 9**  
**San Juan County, N.M.**

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP with flow tee and stripping head. NU blooie line and 2-7/8" relief line.
2. Set blanking plug in S.N. of 2-3/8" tbg @ 1980' & pressure test to 3000 psi. Tag PBTD 2025'w/tbg. C.O. well if fill is above lower perf (2023'). TOH w/ 65 Jts 2-3/8" tbg.
3. Spot and fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank for breakdown water. Usable water required for frac is 220 bbls.
4. Run CBL from 2025' to top of cmt.
5. TIH w/5-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 2004'. Fracture treat well with 34,000 gals. of 75 quality foam using 30# gel as the base fluid & 60,000# 20/40 Arizona sand. Pump at 25 BPM. Monitor bottomhole, backside, and surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 5000 psi and estimated treating pressure is 2500 psi. Flush with gel water. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol.</u> <u>(Gals.)</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>
Pad	9,000	2,250	----
1.0 ppg	5,000	1,250	5,000
2.0 ppg	10,000	2,500	20,000
3.0 ppg	5,000	1,250	15,000
4.0 ppg	5,000	1,250	20,000
Flush	<u>( 0 )</u>	<u>731</u>	<u>      </u>
Totals	34,000	8,500	60,000#

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

- \* 30# LGC8 (Gel)
- \* 3.0 gal. AQF2 (Non-ionic Surfactant)
- \* 1.0# Gvw3 (Enzyme Breaker)
- \* 1.0# B-5 (Breaker)

6. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.

# HUERFANITO UNIT #65 - FRTC FRAC PROCEDURE

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7. TOH w/frac string. Set ret BP @ 2004' on wireline & place 1 sx sand on top RBP.
8. Fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank for breakdown water. Usable water required for frac is 302 bbls.
9. TIH w/5-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 1800'. W/500 psi on backside, frac well with 50,000 gals. of 70 quality foam using 30# gel as the base fluid & 90,000# 20/40 Arizona sand. Pump at 35 BPM. Monitor bottomhole, backside, and surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged with 0.4 mci/1000# Ir-192 tracer. Max. pressure is 5000 psi and estimated treating pressure is 3500 psi. Treat per the following schedule:

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	13,000	3,250	----
1.0 ppg	10,000	2,500	10,000
2.0 ppg	10,000	2,500	20,000
3.0 ppg	10,000	2,500	30,000
4.0 ppg	5,000	1,250	20,000
5 0 ppg	2,000	500	10,000
Flush	( 657)	( 164)	-----
Totals	50,000	12,500	90,000#

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

- \* 30# LGC8 (Gel)
- \* 3.0 gal. AQF2 (Non-ionic Surfactant)
- \* 1.0# GVW3 (Enzyme Breaker)
- \* 1.0# B-5 (Breaker)

10. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
11. TOH w/frac string. TIH w/ret head on 2-3/8" tbg & C.O. w/air/mist to ret BP @ 2004'. Take pitot gauges when possible. When well is sufficiently clean, retrieve BP & TOH.
12. TIH w/4-3/4" bit on 2-3/8" tbg & C.O. to 2025'. Monitor gas and water returns and take pitot gauges when possible.
13. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2025'-1500'.
14. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom

# HUERFANITO UNIT #65 - FRTC FRAC PROCEDURE

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and again cleanout to 2025'. When wellbore is sufficiently clean, land  
tbgs at 1950'KB. Take final water and gas samples & rates.

15. ND BOP and NU wellhead & tree. Rig down & release rig.

Approve: \_\_\_\_\_  
Pat Bent

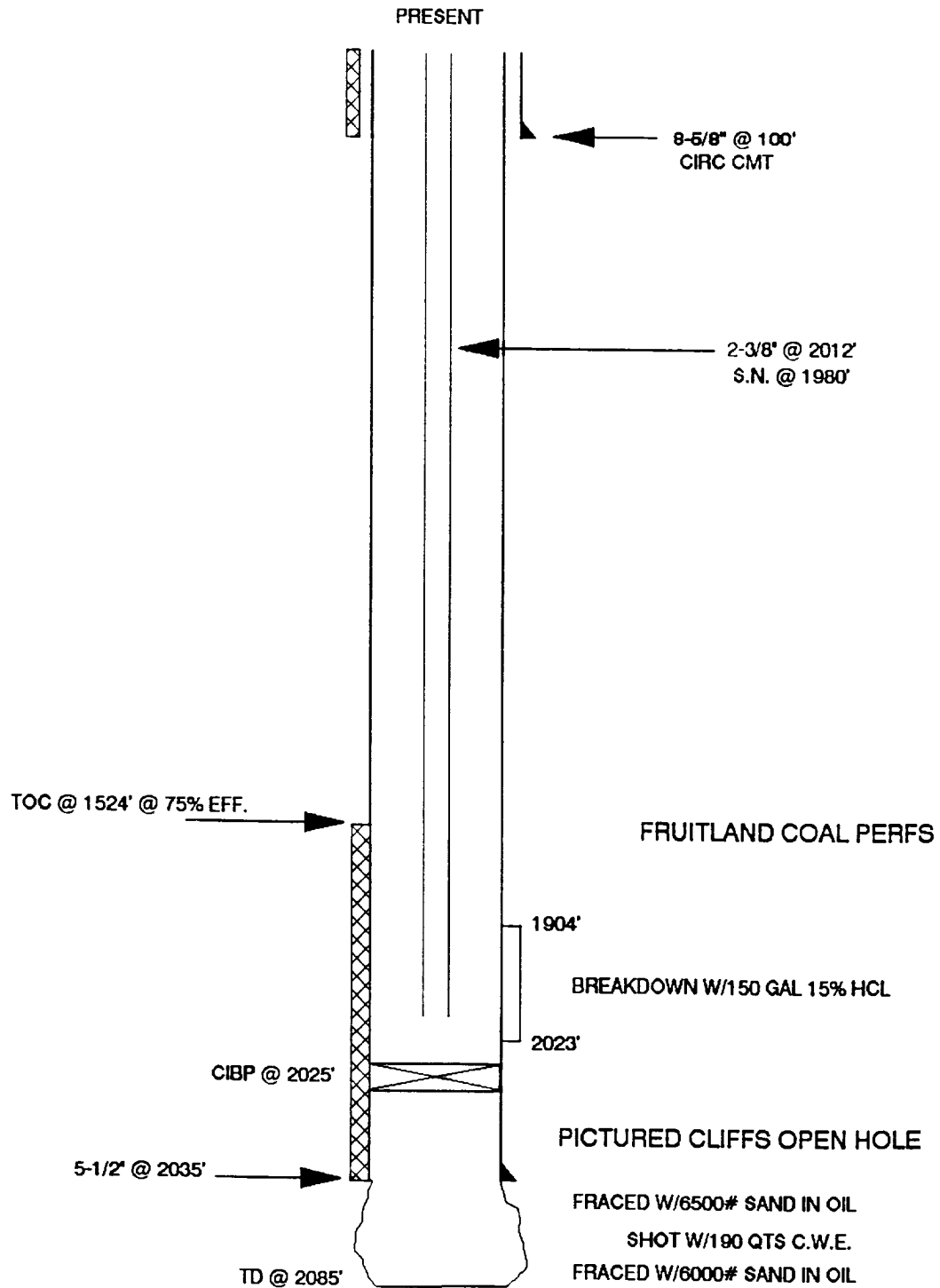
## VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133
Frac String:	Oilfield Rental	327-4421

PMP

# HUERFANITO UNIT #65 FRTC

UNIT M SECTION 12 T26N R9W  
SAN JUAN COUNTY, NEW MEXICO



**Pertinent Data Sheet - HUERFANITO UNIT #65 FRTC**

**Location:** 990' FSL 990' FWL SEC.12 T26N R09W, SAN JUAN COUNTY, N.M.

**Field:** Basin Fruitland Coal

**Elevation:** 6312' **TD:** 2085'  
10' KB **PBTD:** 2025'

**Prop#:** 071076328

**Lease:** Federal SF-078388

**DP#:** 49065B

**GWI:** 100%

**NRI:** 85.50%

**Completed:** 12-8-54

**Recompleted:** 11-5-90

**Initial Potential:**

Final Pitot Gauge = 66 MCF/D, SIBHP=259 PSI @ 2000'

**Casing Record:**

<u>Hole Size</u>	<u>Csq. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
12-1/4"	8-5/8"	24# CFI	100'	101 sx	Circ Cmt to Surf.
7-7/8"	5-1/2"	14# CFI	2035'	100 sx	1524' @ 75% EFF.

**Tubing Record:** 2-3/8" 4.7# J-55 2012' 65 Jts  
"F" 1.81" ID S.N. @ 1980'

**Formation Tops:**

Ojo Alamo	1260'
Kirtland	1402'
Fruitland	1740'
Pictured Cliffs	2042'

**Logging Record:** Gamma Ray - Neutron, Cased Hole Neutron

**Stimulation:** Fraced PC O.H. 2035'-85' w/6,500# sand in diesel oil.  
12-7-54: Shot PC O.H. w/190 qts C.W.E. & fraced w/6,000# sand in diesel.

**Workover History:** 11-5-90: Pulled 1" tbg. Ran CNL & set CIBP @ 2025'. Pressured csg to 750# for 15 min. Spotted 150 gal 15% HCL. Perfed FRTC @ 1904'-08', 1966'-71', 1977'-79', 1986'-95', 2010'-23' w/2 spf. Broke down perfs w/SAP tool & 15% HCL acid. Landed 2-3/8" tbg @ 2012'.

**Production History:** PC cumulative = 311 MMCF. FRTC 1st del FRTC 6-21-91. Current Capacity= 5 MCF/D. BHP=259 psi.

**Pipeline:** EPNG

PMP

M 12 26 9

1900

2000

ALL  
BLUE  
COHL

CHIP