

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells

SEP 10 AM 11:45

1. Type of Well
GAS

5. Lease Number
070 141 NM 0433 NM

6. If Indian, All. or
Tribe Name

2. Name of Operator
MERIDIAN OIL

7. Unit Agreement Name

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

Huerfano Unit
8. Well Name & Number
Huerfano U NP #70

9. API Well No.

4. Location of Well, Footage, Sec., T, R, M
890' FNL, 1600' FWL Sec. 8, T-26-N, R-10-W, NMPM

10. Field and Pool
Basin Ft Coal
11. County and State
San Juan Co, NM

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

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - perf & frac

13. Describe Proposed or Completed Operations

It is intended to perf and frac the coal in this well per the attached procedure and wellbore diagram.

RECEIVED
SEP 17 1993
OIL CON. DIV
DIST. 3

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

Signed [Signature] (MP) Title Regulatory Affairs Date 9/8/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any: _____

APPROVED

SEP 13 1993

DISTRICT MANAGER

NMOOD

Huerfano Unit NP #70 FRTC
Recompletion Procedure
C 8 26 10
San Juan County, N.M.

1. Comply to all NMOC, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP with flow tee and stripping head. NU bleed line and 2-7/8" relief line.
2. Set blanking plug in S.N. of 2-3/8" tubg @ 2041' & pressure test to 3000 psi. TOH w/ 65 Jts 2-3/8" tubg.
3. Spot and fill 3 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. Two tanks are for gel & one tank for breakdown water. Usable water required for frac is 462 bbls.
4. MI wireline truck. Run 5-1/2" gauge ring to 2100'. Set 5-1/2" top drillable BP @ 2100' & top w/1 sx sand.
5. Run 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 @ 1850'. Fracture treat well with 64,000 gals. of 70 quality foam using 30# gel as the base fluid & 100,000# 20/40 Arizona sand. Pump at 40 BPM. Monitor bottomhole 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 4000 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
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	10,000	3,000	30,000
4.0 ppg	5,000	1,500	20,000
5.0 ppg	4,000	1,200	20,000
Flush	(675)	202	
Totals	64,000	19,200#	100,000#

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) |
| * 0.35# BE6 | (Bacteriacide) |

6. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
7. TOH w/frac string. TIH with 3-7/8" bit on 2-3/8" tubg and clean out to 2100' w/air-mist.

HUERFANO UNIT NP #70 - FRTC FRAC PROCEDURE

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8. Monitor gas and water returns and take pitot gauges when possible.
9. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2100'-1700'.
10. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 2100'. When wellbore is sufficiently clean, land tbg at 2000'KB. Take final water and gas samples & rates.
11. ND BOP and NU wellhead & tree. Rig down & release rig.

Approve: _____

J. A. Howieson

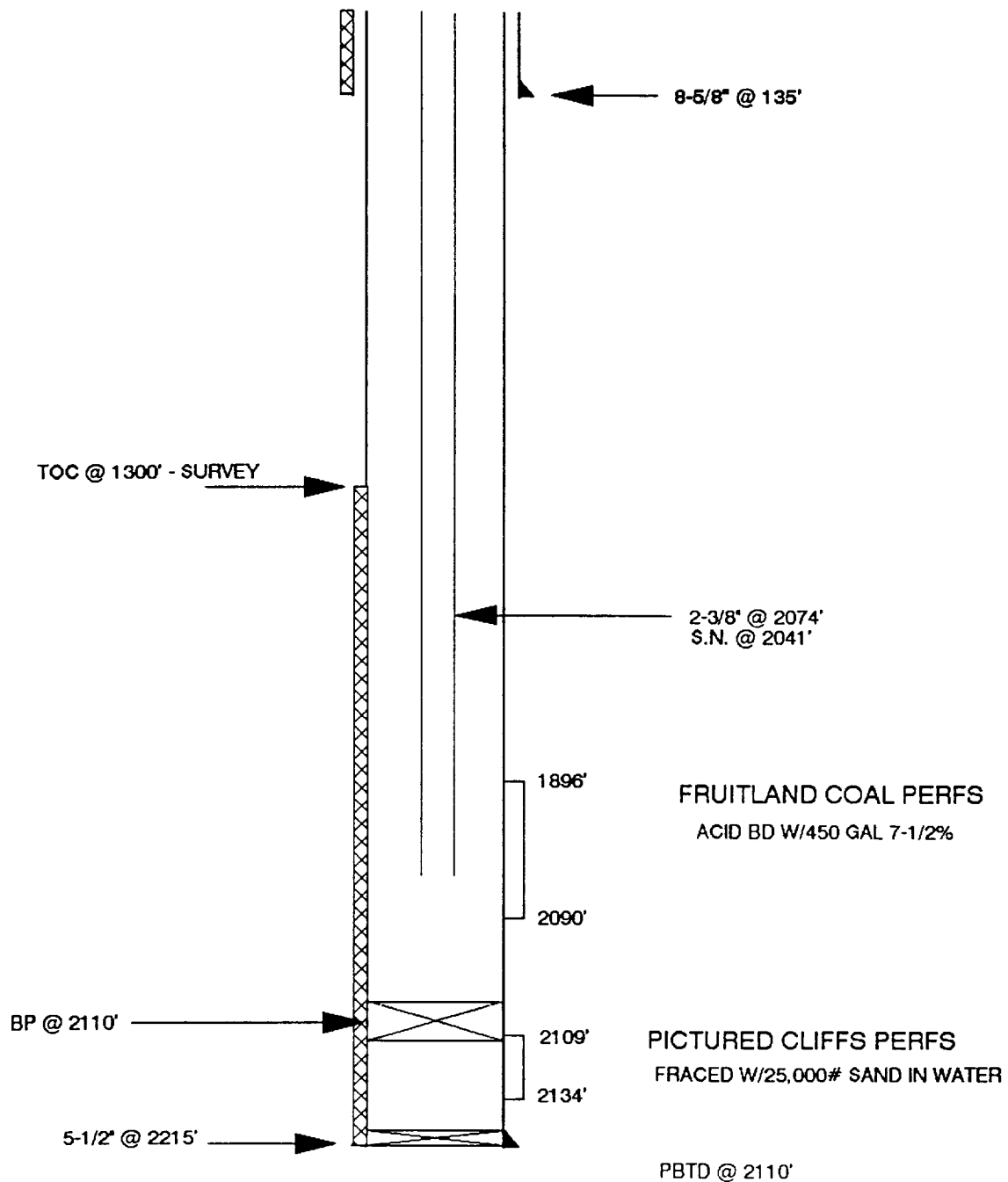
VENDORS:

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

PMP

HUERFANO UNIT NP #70 FRTC

UNIT C SECTION 8 T26N R10W
SAN JUAN COUNTY, NEW MEXICO



Pertinent Data Sheet - HUERFANO UNIT NP #70 FRTC

Location: 890' FNL 1600' FWL SEC. 8 T26N R10W, SAN JUAN COUNTY, N.M.

Field: Basin Fruitland Coal

Lease: Federal NM-0433

Elevation: 6558' TD: 2215'
9' KB PBTD: 2110'

DP#: 51068B

CWI: 63.85%

NRI: 45.61%

Completed: 11-8-56

Recompleted: 8-11-90

Initial Potential:

PC: AOF=1688 MCF/D, Q=1522 MCF/D, SIP=396 psi

FRTC: Final Pitot Gauge= TSTM, SIBHP= 202 psi @ 2070'

Casing Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
12-1/4"	8-5/8"	28.5# J-55	135'	100 sx	Circ Cmt to Surf.
7-7/8"	5-1/2"	15.5# J-55	2215'	150 sx	1300' - Survey

Tubing Record: 2-3/8" 4.7# J-55 2074' 65 Jts
S.N. @ 2041'

Formation Tops:

Ojo Alamo	1100'
Kirtland	1229'
Fruitland	1776'
Pictured Cliffs	2109'

Logging Record: Electric Log, Microlog, Cased Hole Nuetron

Stimulation: Perf PC 2109'-34' w/4 spf & fraced w/25,000# sand in water.

Workover History: 8-11-90: Set BP @ 2110' & pressure tested to 1000 psi for 15 min - OK. Spot 200 gal 15% HCL acid & perf FRTC 1896'-1910', 1946'-58', 1954'-58', 2004'-08', 2068'-90' w/2 spf. Washed perfs w/450 gal 7-1/2% HCL acid & spit tool. Swabbed well dry. Gas was TSTM.

Production History: PC cumulative = 363 MMCF. FRTC 1st delivered 8-6-91. Capacity = 10 MCF/D. FRTC cumulative = 6 MMCF.

Pipeline: EPNG

PMP