

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

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
1840' FNL, 1840' FWL Sec. 36, T-27-N, R-10-W, NMPM

5. Lease Number
NM-03017

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Huerfano Unit
8. Well Name & Number:
Huerfano U NP 257
9. API Well No.

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

☒ 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 -

13. Describe Proposed or Completed Operations

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

RECEIVED
DEC 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 12/3/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

DEC 13 1993
DISTRICT MANAGER

NM000

Huerfano Unit NP #257 FRTC

Frac Procedure

F 36 27 10

San Juan County, N.M.

1. Comply to all NMOCED, 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 @ 2192' & pressure test to 2000 psi. TOH w/ 71 Jts 2-3/8" tbg.
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 break down water. Usable water required for frac is 460 bbls.
4. Run 4-1/2" pkr on 2-7/8" NU N-80 rental frac string & set @ 2050'. Fracture treat well down frac string 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 6000 psi and estimated treating pressure is 4000 psi. Frac string friction is about 1500 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	(490)	147	
Totals	64,000	19,200#	100,000#

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

- * 30# J-4 (Gel guar)
- * 5.0 gal. Fracfoam 2 (Foamer)
- * 1.0# B-11 (Enzyme Breaker)
- * 0.38# Fracide 20 (Bacteriacide)

5. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible. TOH w/frac string and pkr.
6. TIH with 3-7/8" bit on 2-3/8" tbg and clean out to 2260' w/air-mist.
7. Monitor gas and water returns and take pitot gauges when possible.
8. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 2260'-1500'.

HUERFANO UNIT #257 - FRTC FRAC PROCEDURE
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9. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 2260'. When wellbore is sufficiently clean, land tbg at 2150'KB. Take final water and gas samples & rates.
10. ND BOP and NU wellhead & tree. Rig down & release rig.

Approve: _____
J. A. Howieson

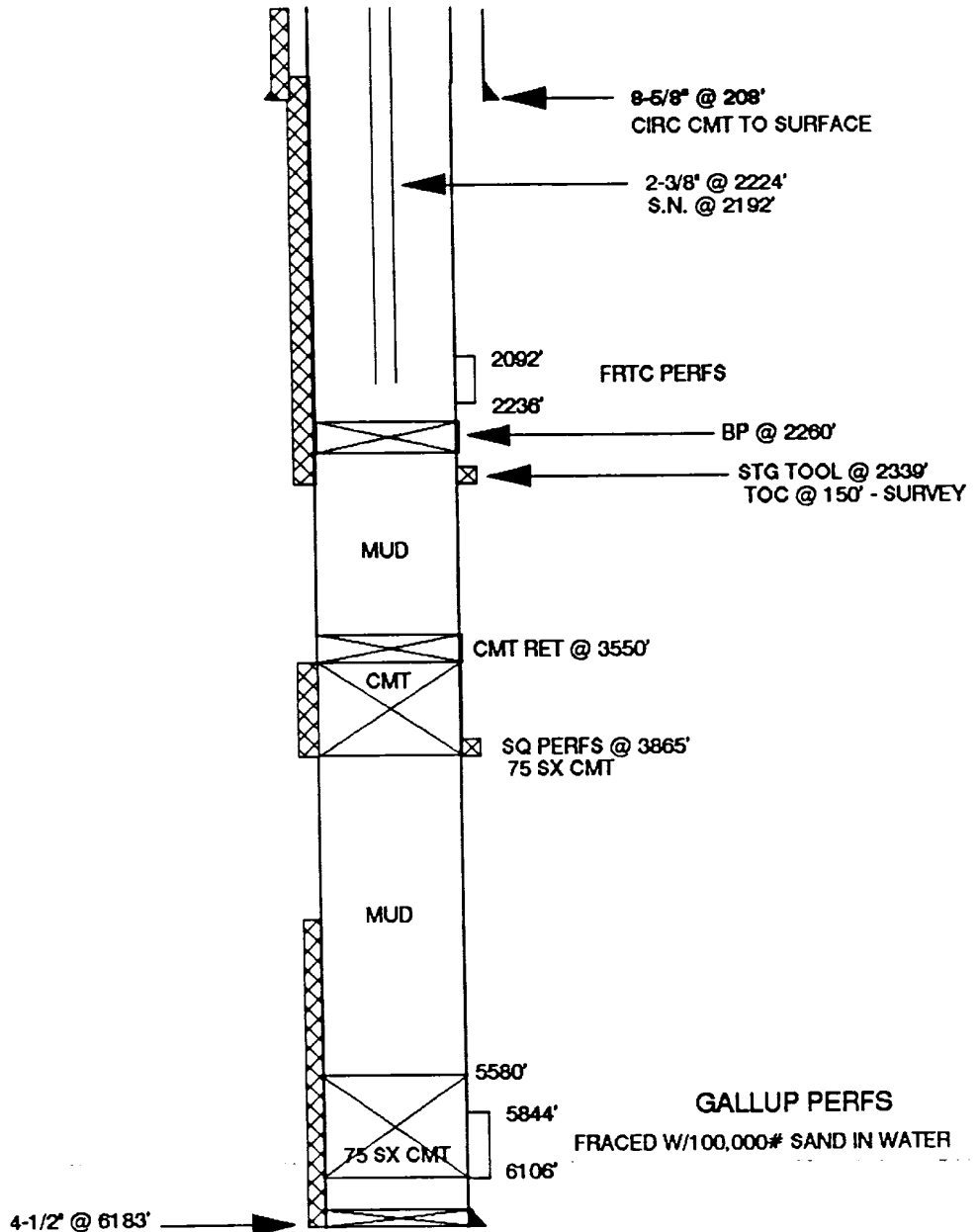
VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

PMP

HUERFANO UNIT NP #257 FRTC

UNIT F SECTION 36 T27N R10W
SAN JUAN COUNTY, NEW MEXICO



Pertinent Data Sheet - HUERFANO UNIT NP #257 FRTC

Location: 1840' FNL 1840' FWL SEC. 36 T27N R10W, SAN JUAN COUNTY, N.M.

Field: Basin Fruitland Coal

Elevation: 6488' TD: 6183'
10' KB PBTD: 2260'

LEASE: Federal NM-03017

DP#: 45069B

GWI: 66.06%

NRI: 50.60%

Completed: 9-18-74

Recompleted: 10-31-90

Initial Potential:

FRTC: Pitot = 54 MCF/D

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"	24# J-55	208'	183 cf	Circ Cmt
7-7/8"	4-1/2"	10.5# J-55	6183'	803 cf	3539' @ 75% Eff.
		Stage Tool @	2339'	401 cf	150' - Survey

Tubing Record: 2-3/8" 4.7# J-55 2224' 71 Jts
S.N. @ 2192'

Formation Tops:

Ojo Alamo	1280'
Kirtland	1453'
Fruitland	2018'
Pictured Cliffs	2243'
Cliffhouse	3815'
Point Lookout	4701'
Gallup	5832'

Logging Record: Induction Log, Density Log, Cased Hole Neutron

Stimulation: Perf DK @ 5844', 5866', 5948', 6008', 6026', 6048', 6076', 6104', 6106' w/1 spf & fraced w/100,000# sand in water.

Workover History: 10-31-90: Pumped 75 sx cmt into Gallup perfs, top of cmt @ 5580'. Circ 80 bbl mud @ 5580'. Perfed 4 sq holes @ 3865'. Set cmt ret @ 3550' & sq w/75 sx cmt. Set BP @ 2260'. Perfed FRTC @ 2092'-2113', 2120'-34', 2196'-2202', 2223'-36' & broke down perfs w/615 gal 15% HCL acid & straddle pkr.

Production History: First Delivery = 9-30-92. Cumulative= ??? MMCF. Capacity = 0 MCF/D. Bradenhead = ? psi. Tbg pressure = ? psi. Csg pressure = ??? psi. Line Pressure = ??? psi. SIBHP=500 psi. BTU=1152. Well has never had cathodic protection.

Pipeline: EPNG

PMP

HUERFANO UNIT *257 FRT C

F 36 27 10

CNL

2100

2200