

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well GAS	5. Lease Number SF-077936A
2. Name of Operator MERIDIAN OIL	6. If Indian, All. or Tribe Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name Huerfano Unit
4. Location of Well, Footage, Sec., T, R, M 1755' FSL, 1050' FEL Sec.1, T-26-N, R-10-W, NMPM	8. Well Name & Number Huerfano Unit 252
	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	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other -
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injectio

13. Describe Proposed or Completed Operations

In an effort to make this well commercial, it is planned to frac this well per the attached procedure.

RECEIVED  
MAY 27 1994  
OIL CON. DIV.  
DIST. 3

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

Signed Pepper Bradfield (MP) Title Regulatory Affairs Date 5/20/94

(This space for Federal or State Office use)

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

APPROVED  
MAY 26 1994  
DISTRICT MANAGER

Huerfano Unit #252 FRTC  
Frac Procedure  
I 1 26 10  
San Juan County, N.M.

1. Comply to all NMOCB, 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. Lower tbg to 2315' to check for fill & cleanout, if necessary. Set blanking plug in S.N. of 2-3/8" tbg @ 2241' & pressure test to 2000 psi. TOH w/ 73 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 break down water. Usable water required for frac is 360 bbls.
4. Run CBL from 2315' to top of cmt. Run 4-1/2" pkr on 2-3/8" tbg & set @ 2150'. Pressure test backside (csg) to 3000 psi for 15 min.
5. Fracture treat well down csg with 49,000 gals. of 70 quality foam using 30# gel as the base fluid & 100,000# 20/40 Arizona sand. Pump at 45 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 3000 psi and estimated treating pressure is 2500 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	10,000	3,000	----
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	<u>(1,400)</u>	<u>(420)</u>	
Totals	49,000	14,700	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:

HUERFANO UNIT #252 FRTC - FRTC FRAC PROCEDURE

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- \* 30# J-4 (Gel guar)
  - \* 5.0 gal. Fracfoam 2 (Foamer)
  - \* 1.0# B-11 (Enzyme Breaker)
  - \* 0.38# Fracide 20 (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. TOH w/frac string and pkr.
  7. TIH with 3-7/8" bit on 2-3/8" tbg and clean out to 2315' w/air-mist.
  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 2315'-1500'.
  10. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 2315'. When wellbore is sufficiently clean, land tbg at 2250'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

PMP

Pertinent Data Sheet - HUERFANO UNIT #252 FRTC

Location: 1755' FSL 1050' FEL SEC. 1 T26N R10W, SAN JUAN COUNTY, N.M.

Field: Basin Fruitland Coal

Elevation: 6629' TD: 6240'  
11' KB PBTD: 2315'

LEASE: Federal SF-077936-A

Prop: 0071120215

DP#: 44915B

GWI: 63.37%

NRI: 49.33%

Completed: 11-25-74

Recompleted: 9-21-90

Initial Potential:

DK: AOF= 158 MCF/D, Q= 136 MCF/D, SICP= 531 psi

FRTC: Pitot = TSTM

Casing Record:

Hole Size	Csq. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt
12-1/4"	8-5/8"	24# J-55	229'	182 cf	Circ Cmt
7-7/8"	4-1/2"	10.5# J-55	6240'	797 cf	3616' @ 75% Eff.
		DV Tool @ 2443'		331 cf	1100' - Survey

Tubing Record: 2-3/8" 4.7# J-55 2274' 73 Jts

S.N. @ 2241'

Formation Tops:

Ojo Alamo	1363'		
Kirtland	1532'	Cliffhouse	3900'
Fruitland	2072'	Point Lookout	4740'
Pictured Cliffs	2307'	Gallup	5798'

Logging Record: Induction Log, Density Log, CNL

Stimulation: Perfed Gal @ 5900', 5968', 6012', 6072', 6090', 6128', 6164', & 6168' & fraced w/96,000# sand in water.

Workover History: 9-11-90: Spotted 55 sx cmt from Gallup perfs to 5728'. Perf 4 sq holes @ 3950'. Set cmt ret @ 3844' & sq w/70 sx. Set CIBP @ 2315'. Pressue tested csg to 3000 psi for 15 min. Perfed FRTC 2166'-82', 2202'-09', 2216'-18', 2247'-50', 2260'-66', 2271'-73', 2286'-94', 2298'-2303' & brokedown w/495 gal 15% HCL acid & straddle pkr.

10-12-90: Swabbed well - it was dry.

Production History: Gallup Cum = 65 MMCF. SIBHP FRTC = 491 psi. Final Pitot was TSTM for FRTC.

Pipeline: EPNG

PMP

# HUERFANO UNIT #252 FRTC

UNIT I SECTION 1 T26N R10W  
SAN JUAN COUNTY, NEW MEXICO

