UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT	/	
Sundry Notices and Reports on Wells	-	
1. Type of Well	300 M 5.	Lease Number SF-077980A
GAS	6.	If Indian, All. or Tribe Name
2. Name of Operator	7.	Unit Agreement Name
MERIDIAN OIL	٥	Huerfano Unit Well Name & Number
3. Address & Phone No. of Operator	0.	Huerfano Unit #232
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9.	API Well No. 30-045-21119
4. Location of Well, Footage, Sec., T, R, M 970'FSL, 1150'FEL, Sec.8, T-26-N, R-9-W, NMPM	10.	Field and Pool Basin Fruitland Coa
P	11.	County and State San Juan Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, RE	EPORT, OTHER	DATA
Type of Submission Type of Action		
X Notice of Intent Abandonment (Recompletion N	Change of Pla	ins
Subsequent Report Plugging Back	New Construct Non-Routine F	racturing
Casing Repair V	Water Shut of	
Final Abandonment Altering Casing X Other - Stimulate	Conversion to	Injection
13. Describe Proposed or Completed Operations		
It is intended to fracture stimulate the existing Fracture subject well according to the attached procedure and	ruitland Coal d wellbore di	formation of the agram.
	part of the state of	
	90年最	
14. I hereby certify that the foregoing is true and corr Signed Ancy Oltman (PMP1) Title Regulatory A (This space for Federal or State Office use)	Administrator	
APPROVED BYTitle CONDITION OF APPROVAL, if any:	_ Date A	PPROVED
		PPROVED

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DISTRICT MANAGER

HUERFANO UNIT #232 FRTC Workover Procedure P 8 26 9

San Juan County, N.M. Lat-Long: 36.498123 - 107.806274

- 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.
- Lower tbg to tag fill. If fill is above 2172, C.O. w/air/mist to 2200'. Set blanking plug in S.N. of 2-3/8" tbg @ 2130' & pressure test tbg to 2000 psi. TOH w/69 jts 2-3/8" tbg.
- 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 396 bbls.
- 4. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/skaved collars (3.5" O.D. 2.441" I.D.) rental frac string & set @ 1900'. (Run 2 jts 2-3/8" N-80 on top of pkr). Load backside w/1% KCL water. Pressure backside to 300 psi & monitor during frac job.
- 5. Fracture treat FRTC down frac string w/55,000 gals. of 70 quality foam using 30# gel as the base fluid & 100,000# 20/40 Arizona sand. Pump at 45 BPM. Monitor bottomhole & 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 3000 psi. Treat per the following schedule:

	Foam Vol.	Gel Vol.	Sand Vol.
Stage	(Gals.)	(Gals.)	(lbs.)
Pad	15,000	4,500	111111
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	10,000	3,000	40,000
Flush	(462)	<u>(139)</u>	0
Totals	55,000	16,500	100.000#

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:

	o ronowing additives per	1000 gailotis.
*	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)

- 6. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. <u>Take pitot gauges when possible.</u>
- Release pkr & TOH w/frac string. TIH w/3-7/8" bit on 2-3/8" tbg & clean out to 2200' w/air/mist.
- 8. Monitor gas & water returns & take pitot gauges when possible.
- When wellbore is sufficently clean, TOH & run after frac gamma-ray log from 2200'-1600'.

HUERFANO UNIT #232 FRTC - FRAC EXISTING FRTC

- 10. TIH w/2-3/8" tbg w/standard seating nipple one joint off bottom & again cleanout to 2200'. When wellbore is sufficiently clean, land tbg @ 2100' KB. <u>Take final water & gas samples & rates.</u>
- 11. ND BOP & NU wellhead & tree. Rig down & release rig.

Recommended: Man 6/25/96

pproved: W.). 4 725

Drilling Superintendent

VENDORS:

Wireline:Basin327-5244Fracturing:Western327-6222RA Tagging:Pro-Technics326-7133Packers:Schlum.325-5006

PMP

Pertinent Data Sheet - HUERFANO UNIT #232 FRTC

Location: 970' FSL & 1150' FEL, Unit P, Section 8, T26N, R09W, San Juan County, New Mexico

Field: Basin Fruitland Coal Elevation: 6495' GL TD: 6100'

10' KB <u>PBTD:</u> 2200'

Recompleted: 11/18/90 Lease: Fed: SF-077980A

GWI: 66.06% **NRI:** 51.59% **Prop#:** 071120217

Initial Potential: Pitot Gauge FRTC = 21 MCF/D

Casing Record:

Hole Size	Csq Size	Wt. & Grade	Depth Set	Cement	Cement (Top)
12-1/4"	8-5/8"	24# KS	209'	182 cf	Circ Cmt
7-7/8"	4-1/2"	10.5# KS	6100'	344 cf	4967' @ 75% Eff.
_		Stage Tool @	2355'	346 cf	1250' - Survey

Tubing Record:

Tbg. Size	Wt. & Grade	Depth Set	
2-3/8"	4.70# J-55	2163'	69 Jts
		SN @ 2130'	

Formation Tops:

Ojo Alamo: 1255' '
Kirtland Shale: 1410'
Fruitland: 1995'
Pictured Cliffs: 2198' '

Logging Record: Density, Induction, Cased Hole Neutron

Stimulation: Perfed GL 5846'-6020' & fraced 1st stg w/35,000# sand in water & Perfed upper GL 5654'-5808' & fraced 2nd stg w/45,000# sand in water.

Workover History: 11/18/90: Plug back to 2200'. Spotted 135 gal 15% HCL. Perfed FRTC @ 2022'-29', 2032'-50', 2080'-87', 2130'-43', 2166'-72' w/2 spf & broke down w/460 gal 15% HCL.

Production history: FRTC not 1st delivered. Gallup cum = 161 MMCF. FRTC SIBHP=557 psi @ 2160'.

Pipeline: EPNG

HUERFANO UNIT #232 FRTC

UNIT P SECTION 8 T26N R9W SAN JUAN COUNTY, NEW MEXICO



