

**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
1820'FSL, 810'FWL Sec.21, T-26-N, R-9-W, NMPM

5. Lease Number
SF-078060A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Huerfano Unit
8. Well Name & Number
Huerfano Unit 136E

9. API Well No.

10. Field and Pool
Basin Dakota

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 - add pay

13. Describe Proposed or Completed Operations

It is intended to open additional Dakota pay and stimulate per the attached procedure.

RECEIVED
NOV 8 1993
OIL CON. DIV
DIST. 3

RECEIVED
OIL CON. DIV
NOV 8 1993

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

Signed [Signature] (MP) Title Regulatory Affairs Date 11/1/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

NOV 8 1993
DISTRICT MANAGER

Huerfano Unit #136E DK
Pay Add Procedure
L 21 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 @ 6468' & pressure test to 3000 psi. Lower tbg to PBDT 6582' to check for fill. TOH w/ 205 Jts 2-3/8" tbg. If necessary, TIH w/3-7/8" bit on 2-3/8" tbg & C.O. to PBDT 6582' w/air mist. TOH.
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 2% KCL breakdown water. Usable water required for frac is 249 bbls.
4. Perf additional Dakota 6566'-76' w/2 spf. Perforate using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 180 degrees & 2 spf. Avg. perf dia.= 0.48". Average penetration is 18" in Berea. Total 20 holes.
5. TIH w/4-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 6530'. Breakdown & balloff new DK perfs w/2500 gal 15% HCL acid & 35 perf balls. Max. pressure is 4500 psi. Acidize w/2 gal/1000 corrosion inhibitor & 1 gal/1000 SAA-2 (surfactant). Record breakdown pressures. Lower pkr to 6580' to knock off perf balls. Reset pkr @ 6530'.
6. Load backside w/2% KCL water & monitor & record backside pressure during frac. Fracture treat well down frac string with 39,000 gals. of 70 quality foam using 30# gel as the base fluid & 40,000# 20/40 Super DC resin sand. Pump at 20 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 ??? psi. Total frac string friction @ 20 BPM is ??? 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	3,333	999	10,000
Flush	<u>(1,600)</u>	<u>(480)</u>	
Totals	33,333	9,999	40,000#

Shut well in after frac for six hours in an attempt to obtain closure pressure and 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)

HUERFANO UNIT #136E DK - DAKOTA PAY ADD
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- * 1.0# GVW3 (Enzyme Breaker)
 - * 1.0# B-5 (Breaker)
 - * 0.35# BE6 (Bacteriacide)
7. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
 8. TOH w/2-7/8" frac string & pkr. TIH with 3-7/8" bit on 2-3/8" tbg and clean out to 6582' w/air-mist.
 9. Monitor gas and water returns and take pitot gauges when possible.
 10. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 6582'-6200'.
 11. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 6582'. When wellbore is sufficiently clean, land tbg at 6500'KB. Take final water and gas samples & rates.
 12. 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
Packer:	Baker	325-0216

PMP

Pertinent Data Sheet - HUERFANO UNIT #136E DK

Location: 1820' FSL 810' FWL SEC. 21 T26N R09W, SAN JUAN COUNTY, N.M.

Field: Basin Dakota

Elevation: 6413' TD: 6607'
14' KB PBTD: 6582'

DP#: 53959A

GWI: 60.88%

NRI: 45.43%

Completed: 7-25-85

Initial Potential:

AOF=1500 MCF/D, Q=1390 MCF/D, SICP=1256 psi

Casing Record:

Hole Size	Csg. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt
12-1/4"	8-5/8"	24# K-55	233'	189 cf	Circ Cmt
7-7/8"	4-1/2"	11.6, 10.5# K-55	6607'	370 cf	5389' @ 75% Eff.
		Stage Tool @	4870'	583 cf	2951' @ 75% Eff.
		Stage Tool @	2250'	1020 cf	Circ Cmt

Tubing Record: 2-3/8" 4.7# J-55 6502' 205 Jts
S.N. @ 6468'

Formation Tops:

Ojo Alamo	1188'
Kirtland	1251'
Fruitland	1749'
Pictured Cliffs	2002'
Mesaverde	3600'
Point Lookout	4402'
Gallup	5460'
Dakota	6500'

Logging Record: Induction Log, Density Neutron Log

Stimulation: Pressure test failed. Set BP @ 6582' & pressure test to 4000 psi OK. Perf DK @ 6413', 6415', 6417', 6419', 6421', 6423', 6425', 6445', 6447', 6449', 6451', 6504', 6506', 6508', 6510', 6512', 6514', 6516', 6518', 6520' w/1 spz. Fraced w/36,000# sand in water. 2500 psi @ 35 BPM.

Workover History: None

Production History: First Delivery = ???0-76. Cumulative= ?? MMCF & ????0 BO. Capacity = 0 MCF/D. Bradenhead = ? psi. Tbg pressure = ? psi. Csg pressure = ? psi. Line Pressure = ??? psi.

Pipeline: EPNG

PMP

HUERFANO UNIT #136E DK

UNIT L SECTION 21 T26N R9W
SAN JUAN COUNTY, NEW MEXICO

