

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

070 FARMINGTON, NM

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

1555' FSL, 850' FEL, Sec.23, T-26-N, R-9-W, NMPM

5. Lease Number

SF-078103

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

Huerfano Unit

8. Well Name & Number

Huerfano Unit #147

9. API Well No.

30-045-05732

10. Field and Pool

Ballard Pictured Cliffs

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
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other - Workover
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to run and cement 3 1/2" casing from TD to surface in the subject well. The Pictured Cliffs will then be perforated and fracture treated according to the attached procedure.

RECEIVED
MAY - 4 1995
OIL CON. DIV.
DIST. 3

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

Signed [Signature] (PMP1) Title Regulatory Affairs

Date 4/26/95

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

Date _____

CONDITION OF APPROVAL, if any:

APPROVED

APR 28 1995

DISTRICT MANAGER

NMOCD

HUERFANO UNIT #147 PC
Workover Procedure
I 23 26 9
San Juan County, N.M.
Lat-Long: 36.470551 - 107.752197

1. 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.
2. TOH w/1" tbg & lay down. TIH w/4-3/4" bit on 2-3/8" work string & C.O. w/air/mist to TD 2140'. TOH.
3. Load hole w/500 gal 1% KCL water. Run an advanced integrated data processing GSL neutron log 2140'-1700'. Correlate log to open hole log.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2140' w/Omega type latching collar above 2' tbg sub w/Texas guide shoe on bottom. Cement w/100sx 50-50 Cl"B" POZ w/2% gel & 6-1/2#/sx kolite & 10% salt & 2% Cacl. (yield=1.44 cf/sx). After cmt, break & wash lines, run 2 wiper balls & Omega wiper latching plug, followed by 100 gal 7-1/2% HCL acid. Space out using tbg subs & install 3-1/2" csg in new csg spool. Install 5000 psi rental frac valve on 3-1/2" csg.
5. Role hole w/1% KCL water. Run GR-CCL & coorelate to neutron log. Perf about 50' of PC interval as per Production Engineering Dept. Perf using 2-1/8" formed wire w/22 gr #307 Owen charges which make a 0.38" hole and have 20.73" of penetration.
6. Break down PC perfs down 3-1/2" csg w/2500 gal 15% GCL & 150% excess perf balls. Acidize @ 7 BPM w/max pressure = 6000 psi. Run junk basket to retrieve balls.
7. Spot & fill 2-400 bbl. frac tanks w/2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 241 bbls.
8. Frac PC down 3-1/2" csg w/33,000 gals. of 70 quality foam using 30# gel as the base fluid & 60,000# 20/40 Arizona sand. Pump at 40 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 folowing schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	8,000	2,400	---
1.0 ppg	5,000	1,500	5,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	5,000	1,500	15,000
4.0 ppg	5,000	1,500	20,000
Flush	(727)	(218)	0
Totals	33,000	9,900	60,000#

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:

- * 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)

HURFANITO UNIT #12 PC - CEMENT 3-1/2" CSG, PERF PC, & FRAC

- * 5.0 gal Fracfoam I (Foamer mix on fly)
- * 0.38# FracCide 20 (Bacteriacide mix on full tank)

9. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
10. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 2135'. Monitor gas & water returns & take pitot gauges when possible.
11. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2135'-1700'.
12. TIH w/1-1/4" tbg w/standard seating nipple one joint off bottom & again cleanout to 2410'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2050' KB. Take final water & gas samples & rates.
13. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: _____
Drilling Superintendent

VENDORS:

Wireline:	Petro	326-6669
Fracturing:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133
Packers:	Schlum.	325-5006
Csg Equip:	Howco	325-3575
Cmt	Howco	325-3575

PMP

Pertinent Data Sheet - HUERFANO UNIT #147 PC

Location: 1555 FSL & 850' FEL, Unit I, Section 23, T26N, R09W, San Juan County, New Mexico

Field: Ballard Pictured Cliffs **Elevation:** 6420' GL
11' KB **TD:** 2095'

PBTD: 2095'

Completed: 12-20-54 **Spud Date:** 12-5-54

DP #: 49400A
Lease: Fed SF 078103
GWI: 62.35%
NRI: 45.35%
Prop#: 007971100

Initial Potential:
3060 MCF/D 611 PSI

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	8-5/8"	24# J-55	99'	75 sx.	Circ Cmt
e 7-7/8"	5-1/2"	14# J-55	2049'	75 sx.	1666' @ 75% Eff.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1"	1.7# CF&I	2072'

Formation Tops:

Ojo Alamo:	1260' '
Kirtland Shale:	1350'
Fruitland:	1743'
Pictured Cliffs:	2050' '

Logging Record: E-Log (above 5-1/2" shoe)

Stimulation: Fraced open hole 2049'-2095' w/8,600# sand in oil.

Workover History: NONE

Production history: Current Capacity = 30 MCF/D. Cumulative = 3,117 MMCF.

Pipeline: EPNG

HUERFANO UNIT #157 PC

UNIT I SECTION 23 T26N R9W
SAN JUAN COUNTY, NEW MEXICO

070 FARMINGTON, NM

