

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
1090' FSL, 825' FWL Sec. 27, T-27-N, R-9-W, NMPM

5. Lease Number
SF-078135-280117

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
Huerfanito Unit

8. Well Name & Number
Huerfanito U #104

9. API Well No.

10. Field and Pool
Blanco MV/Basin Dk

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 - add Mesa Verde

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to open the Mesa Verde formation and commingle with the Basin Dakota per the attached procedure. Application for commingling will be made with the New Mexico Oil Conservation Division.

RECEIVED
MAY 10 1993

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MAY 10 1993
OIL CON. DIV
DIST. 3

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

Signed Reggie Drabpulle (MP) Title Regulatory Affairs Date 5/3/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

77. 8

NMOCD

APPROVED

MAY 10 1993

for Michael J. [Signature]
DISTRICT MANAGER

HUERFANITO UNIT #104 MV
Recommended Procedure
M 27 27 9
San Juan County, New Mexico

REVISED PROCEDURE

1. Comply to all NMOCDC, BLM, & MOI rules & regulations. MOL and RU completion rig. Blow well down. NDWH & NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and two 2-7/8" relief line.
2. TOH W/6911' 2-3/8" tbg. Replace all bad jts.
3. Run 4-1/2" gauge ring to 5500'. Set 4-1/2" ret BP @ 5500' on 2-3/8" tbg & top w/1 sx sand. Pressure test tbg to 3000 psi. Load hole w/2% KCL water. TOH.
4. Run CBL from 5500' to above all tops of cmt in 4-1/2" csg. (Stage collars @ 4843' & 2500'). Run dual spaced neutron log 5500'-4000'. Correlate logs to open hole Density log. Pressure test csg to 1000#. If proposed MV interval is not covered w/cmt, a sq procedure will be provided.
5. Using logs, Production Engr will pick perms - 30-0.28" holes from about 4996' to 4670'. Perf MV w/30-0.28" holes w/3-1/8" HCG w/10 gr Owen 316 charges which have an average penetration in Berea of 14.7".
6. Fill 12 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. Eleven tanks for frac and one for breakdown. Water needed for frac is 3600 bbls.
7. TIH w/4-1/2" pkr & 2-7/8" NUE N-80 rental tbg w/shaved collars & set just above RBP @ 5500'. Pressure test ret. BP to 3000#.
8. PU to 4500' & reset pkr. Breakdown & attempt to balloff MV perms w/2500 gal 15% HCL acid & 60 perf balls. Max pressure = 4000 psi. Acid to contain 1 gal/1000 aqua flow, and 2 gal/1000 I17 (corrosion inhibitor). Lower pkr below bottom perf to knock off balls. Reset pkr @ 4600' & prepare to frac.
9. With 500 psi held on backside & recorded, frac Mesavere down 2-7/8" frac string with 100,000# 20/40 Arizona sand in 30# gel w/2% KCL @ 35 BPM. All sand to be tagged with 0.40 mCi/1000# Ir-192 tracer. Max. pumping pressure is 6000 psi and estimated treating pressure is 4550 psi (frac string friction pressure @ 35 BPM = 3378 psi). Treat per the following schedule:

| <u>Stage</u> | <u>Fluid (Gals.)</u> | <u>Sand Vol. (lbs.)</u> |
|--------------|--------------------------|-----------------------------|
| Pad | 40,000 | ---- |
| 0.5 ppg | 40,000 | 20,000 |
| 1.0 ppg | 50,000 | 50,000 |
| 1.5 ppg | 20,000 | 30,000 |
| Flush | 1,185 | ---- |
| Totals | 150,000 | 100,000# |

HUERFANITO UNUT #104 MV - COMPLETION PROCEDURE
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Treat frac fluid with the following additives per 1000 gallons:

- * 6.81 gals J4L (Guar Gel)
- * 0.38# Frac-cide 20 (Biocide)
- * 1.0 gal Aquaflo (Surfactant)
- * 0.4# B5 (Breaker)
- * 2% KCL

10. If well is on a vacuum, underflush by about 25%. TOH.
11. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. When well ceases to flow, TOH w/frac string & pkr.
12. Run retrieving head on 2-3/8" tbg & C.O. w/air/mist to ret. BP @ 5500'. Take pitot gauges when possible. Retrieve BP & TOH.
13. TOH w/3-7/8" bit on 2-3/8" tbg & C.O. to 6940' w/air/mist. Take pitot gauges when possible. TOH.
14. Run after frac GR log 5600'-4000'.
15. Land 2-3/8" tbg @ 6800' w/standard S.N. one jt off open ended bottom. ND BOP and NU wellhead. Obtain final pitot gauge. 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