

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

NO-G-0651-1131

1. Type of Well
GAS

5. Lease Number

~~I-149-IND-8467~~6. If Indian, All. or
Tribe Name

Navajo

7. Unit Agreement Name

2. Name of Operator

~~MERIDIAN OIL~~ *Southland*

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number

Jernigan #3A

9. API Well No.

4. Location of Well, Footage, Sec., T, R, M

1500'FSL, 975'FEL Sec.24, T-27-N, R-9-W, NMPM

10. Field and Pool

Blanco MV/Otero Ch

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 -

13. Describe Proposed or Completed Operations

It is intended to open the Chacra formation and commingle with the existing Mesa Verde interval. Application for commingling will be made with the New Mexico Oil Conservation Division.

RECEIVED

JUN 1 6 1993

OIL CON. DIV.

DIST 3

070 FARMINGTON, NM

93 MAY 28 PM 3:14

RECEIVED
BLM

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

Signed *[Signature]* (MP) Title Regulatory Affairs Date 5/28/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

Date

APPROVED

JUN 10 1993

DISTRICT MANAGER

NMOCD

JERNIGAN #3A MV-CH
Procedure To Open Chacra
I 24 27 9

1. Comply to all NMOCD, BLM, & MOI, rules & regulations. MOL and RU completion rig. Blow well down. NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
 2. TOH w/142 Jts 2-3/8" tbg. Run 4-1/2" csg scraper on tested 2-3/8" tbg to 3500' TOH. Run 4-1/2" ret. BP on 2-3/8" tbg & set @ 3500'. Sting out of ret. BP & load hole w/2% KCL water. TOH.
 3. MI Wireline Truck. Dump 2 sx sand on top ret BP. Run CBL from 3400' to top cmt in 4-1/2" csg & to TOC in 7" csg. Run dual spaced neutron log from 3400'-2800'. Correlate to open hole density log. Hot-shot logs to Production Engr Dept before perforating. Pressure test to 2500 psi.
 4. If CBL shows no cmt across proposed Chacra interval ~2924'-3000', perf 2 sq holes @ 3200' and 2800'. Set 4-1/2" cmt ret @ 3150' on wireline. Sting into cmt ret w/2-3/8" tbg. Est rate down tbg & out csg valve. Sq w/ 70 sx Cl "B" w/2% CaCl & 3#/sx Gilsonite. This is 100% excess to fill backside. Sting out of ret., PU to 2500', reverse out, repressure, & WOC. TOH.
 5. TIH w/ 3-7/8" bit on 2-3/8" tbg. Drill & CO. to 3150' w/water. Pressure test to 1000 psi. TOH. Resq if necessary.
 6. When pressure test holds, run CBL from 3150' to top of cmt.
 7. Perf Chacra w/ 2 spf @ 3000', 2999', 98', 97', 96', 95', 94', & one hole @ 93'. Total 15-0.33 holes. Perf w/Tolson jets.
 8. Spot and fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank for gel and one for breakdown. Usable water required for frac is 257 bbls.
 9. TIH with 4-1/2" pkr on 2-3/8" tbg & set @ 2850'. With 800 psi on backside, breakdown & attempt to balloff w/2000 gal 15% HCL acid & 45 perf balls. Acid to contain 1 gal/1000 gals water of SAA-3 (surfactant) & 2 gals/1000 of C1A-2 (corrosion inhibitor). Maximum pressure = 4500 psi. Record breakdown pressures. TOH.
 10. Run 4-1/2" pkr on 850' 2-7/8" NUE N-80 rental tbg w/shaved collars & 2000' 3-1/2" 9.3# P-110 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 2850'. W/800 psi on backside & recorded, fracture treat well with 35,000 gals. of 70% quality N2 foam and 45,000# Arizona sand. Pump foam at 40 BPM. Use 10,500 gals. 30# (guar) gel for base fluid. 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 3500 psi. Treat per the following schedule:
-

JERNIGAN #3A CHACRA COMPLETION PROCEDURE
Page 2

<u>Stage</u>	<u>Foam Vol.</u> <u>(Gals.)</u>	<u>Foam</u> <u>Quality</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>	<u>Sand</u> <u>Mesh</u>
Pad	10,000	70	3,000	----	----
1.0 ppg	10,000	70	3,000	10,000	20/40
2.0 ppg	10,000	70	3,000	20,000	20/40
3.0 ppg	5,000	70	1,500	15,000	20/40
Flush	(980)	70	(294)	----	----
Totals	35,000		10,500	45,000#	

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# J-4 | (Base Gel) |
| * 5.0 gals. | (Foaming Agent) |
| * 1.0 gal. Aqua-Flow | (Non-ionic Surfactant) |
| * 1.0# B-11 | (Enzyme Breaker) |
| * 1.0# B-5 | (Breaker) |
| * 0.35# Frac Cide | (Bacteriacide) |

11. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed.
12. When well stops flowing, TOH w/frac string & pkr. TIH w/retrieving head on 2-3/8" tbg & C.O. w/air/mist to ret PB @ 3500'. Take pitot gauges when possible.
13. When a stable gas gauge is obtained retrieve ret. BP @ 3500'. TOH.
14. TIH w/3-7/8" bit on 2-3/8" tbg & clean out MV w/air/mist to 4500'. Take pitot gauges when possible.
15. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 3500'-2500'.
16. TIH with 2-3/8" production tbg with standard seating nipple one joint off bottom. Land tbg @ 4300'. Again blow well clean. Take final pitot gauges, water & oil samples, and gas samples.
17. ND BOP and NU wellhead. Rig down & release rig.
18. Install wellhead compressor.

Approved: _____
J. A. Howieson

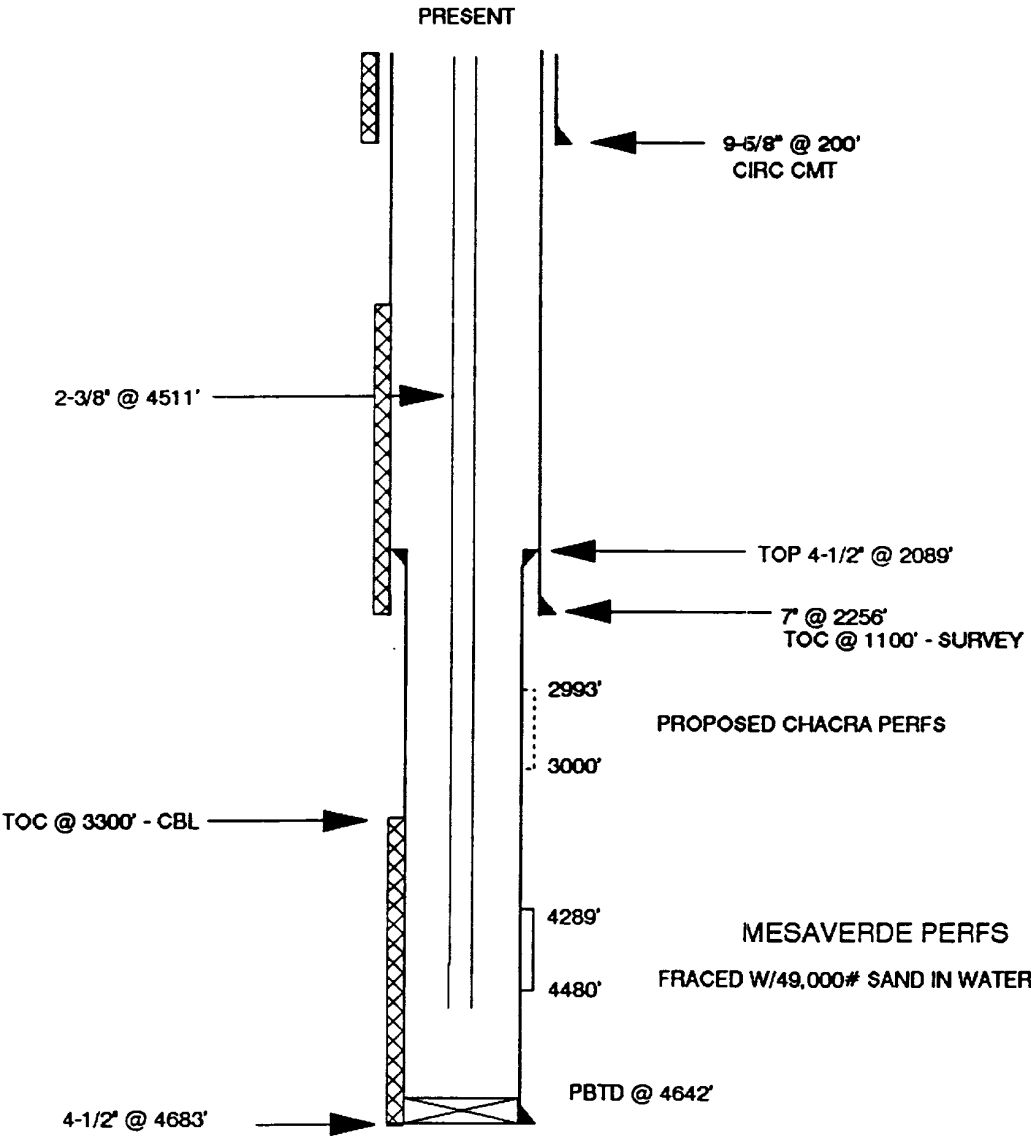
VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Acid:	BJ	327-6288
RA Tagging:	Pro-Technics	326-7133

PMP

JERNIGAN #3A MV

UNIT I SECTION 24 T27N R9W
SAN JUAN COUNTY, NEW MEXICO



JERNIGAN #3A MV

UNIT I SECTION 24 T27N R9W
SAN JUAN COUNTY, NEW MEXICO

