

submitted in lieu of Form 3160-5

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
990' FSL, 1650' FWL Sec.18, T-30-N, R-10-W, NMPM
5. Lease Number
SF-077764
6. If Indian, All. or Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Schumacher #3
9. API Well No.
30-045-09447
10. Field and Pool
Basin Ft Coal/Aztec
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

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment | <input checked="" type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut off |
| | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injectio |
| | <input type="checkbox"/> Other - | |

13. Describe Proposed or Completed Operations

A sundry notice was submitted and approved 06-22-94 to add the Fruitland Coal formation to this Pictured Cliffs well and commingle the production. It is now intended to set a CIBP at 2819' to isolate the Pictured Cliffs, open the Fruitland Coal formation, and produce the Fruitland Coal at this time. A revised procedure is attached.

RECEIVED
DEC - 8 1994

OIL CON. DIV.
DIST. 3

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

Signed James B. Harkins (LJB2) Title Regulatory Affairs Date 12/2/94

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

APPROVED

DEC 02 1994

DISTRICT MANAGER

SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W

1. Test rig anchors and repair if necessary. Install 1-400 bbl frac tank on location and fill with 2% KCl water. Filter all water to 25 microns. Heat water as required by weather.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules and regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH laying down 2896' of 1" 1.7# tubing, tally and inspect.
4. TIH with 2-3/8" work-string and 4-3/4" bit and clean out to open hole TD at 2920'. TOOH.
5. TIH with 2-3/8" tubing, 5-1/2" casing scraper and 4-3/4" bit and clean out to the casing shoe at 2822'. Load hole with 2% KCl water. TOOH.
6. RU and RIH with CNL-CCL-GR and log from casing shoe at 2822' to 822'.
7. RIH and wireline set 5-1/2" CIBP at 2819'. Correlate with CNL-CCL-GR to ensure CIBP is set between PC and basal FTC. Load hole with 2% KCl water. TOOH.
8. Run CBL from PBTD (2819') to surface. If CBL appears inadequate, re-run log with 500 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering and drilling.

*****LOWER COAL*****

9. TIH with 2-3/8" tubing and set 5-1/2" full bore packer at 2700'. Load hole with 2% KCl water and test CIBP and casing to **3500 psi** for 15 minutes. Test tubing and casing annulus to **500 psi** for 15 minutes. Equalize pressure and unseat packer. TOOH.
10. RU wireline and perforate the following coal interval with 3-1/8" HSC with 16.0 gram charges, 0.4" holes at 2 SPF (correlate depths to CNL-CCL-GR log).

2800' - 2812'

Total: 12 feet: 24 holes

11. Breakdown with 240 gallons 15% HCl acid with SAP tool on 2-3/8" tubing. Max. pressure 5000 psi. Acid to contain 1 gal/1000 Coal surf, 5 gal/1000 Citric Acid (Iron Control), and 2 gal/1000 I-22 (corrosion inhibitor).
12. TIH with 5-1/2" fullbore packer on 2-7/8" buttress tubing frac string and set packer at 2700'.

SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W
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13. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal according to attached schedule with 70Q foam at 20 BPM with 95,000 lbs of 20/40 mesh Arizona sand and **TAIL WITH** 10,000 #'s 12/20 mesh Arizona sand. Tag with 0.4 mCi/1000# Ir-192 tracer. Flush with 13 bbls 2% KCl. Estimated treating pressure is 3792 psi. **MAXIMUM PRESSURE IS LIMITED TO 5000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight **only**.
14. Shut in well for 1 hours for gel break.
15. After gel break, open well through choke manifold and monitor flow. Flow at 20 bbls/hr, or less if sand is observed.
16. When well ceases to flow, TOO H with 2-7/8" frac string and packer.
17. TIH with 2-3/8" tubing and notched collar and clean out to 2819'. TOO H.
18. TIH and set 5-1/2" RBP at 2730' on wireline.
19. Refill 400 bbl frac tank with 2% KCl water and filter to 25 microns. Heat water as required by weather. (80 deg F).

*****UPPER COAL*****

20. TIH with 2-3/8" tubing and set 5-1/2" full bore packer at 2503'. Load hole with 2% KCl water and test RBP and casing to **3500 psi** for 15 minutes. Test tubing and casing annulus to **500 psi** for 15 minutes. Equalize pressure and unseat packer. TOO H.
21. RU wireline and perforate the following coal interval with 3-1/8" HSC with 16.0 gram charges at 2 SPF (correlate depths to CNL-CCL-GR log).

2603' - 2610'
2626' - 2634'
2641' - 2650'
2671' - 2680'

Total: 33 feet: 66 holes

22. Breakdown with 660 gallons 15% HCl acid with SAP tool on 2-3/8" tubing. Max. pressure 4500 psi. Acid to contain 1 gal/1000 Coal surf, 5 gal/1000 Citric Acid (Iron Control), and 2 gal/1000 I-22 (corrosion inhibitor).

SCHUMACHER #3
Recommend Completion Procedure
SW/4 Section 18 T30N R10W
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23. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat upper coal according to attached schedule with 70Q foam at 30 BPM with 122,500 lbs of 20/40 mesh Arizona sand and 10,000 #'s 12/20 mesh Arizona sand. Tag with 0.4 mCi/1000# Ir-192 tracer. Flush with 14 bbls 2% KCl. Estimated treating pressure is 4707 psi. **MAXIMUM PRESSURE IS LIMITED TO 5000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
24. Shut in well for 1 hours for gel break.
25. After gel break, open well through choke manifold and monitor flow. Flow at 20 bbls/hr, or less if sand is observed.
26. When well ceases to flow, TOOH with packer and lay down frac string.
27. TIH with 2-3/8" tubing and retrieving head and clean out upper zone until sand flow stops. **Take Pitot gauge before releasing BP.** Release RBP set at 2730'.
28. TIH with notched collar on 2-3/8" tubing and clean out to CIBP set at 2819'. After clean up, flow test for 24 hours, taking pitot gauges every 6 hours. **Take final Pitot gauge.** TOOH.
29. RU wireline and run After - Frac - GR. log from 2819' to top of tracer activity.
30. TIH with 2799' of 2-3/8" tubing with standard seating nipple one joint off bottom and pump-off plug on bottom. Land tubing string.
31. ND BOP and NU independent wellhead. Pump off plug. **Take final Pitot gauge.** Rig down and release rig.

Approve: _____

P. W. Bent

VENDORS:

Wireline:	Petro	326-6669
Fracturing:	Western	327-6222
RA Tagging:	Protechnics	326-7133