

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
SLM

Sundry Notices and Reports on Wells

SEP 10 10:47

1. Type of Well GAS	5. Lease Number NM-028617
2. Name of Operator MERIDIAN OIL	6. If Indian, All. or Tribe Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name
4. Location of Well, Footage, Sec., T, R, M 1250'FNL, 1690'FEL Sec.30, T-27-N, R-9-W, NMPM	8. Well Name & Number Lodewick #14
	9. API Well No.
	10. Field and Pool Basin Ft Coal
	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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other - pay add
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to perf and frac additional coal in this well per the attached procedure and wellbore diagram.

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SEP 24 1993  
OIL CON. DIV  
DIST. 3

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

Signed [Signature] (MP) Title Regulatory Affairs Date 9/8/93

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

CONDITION OF APPROVAL, if any:

APPROVED

SEP 15 1993

DISTRICT MANAGER

NMOCD

Lodewick #14 FRTC  
Completion Procedure  
B 30 27 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 @ 2200' & pressure test to 3000 psi. Lower tbg to tag fill. If fill is above 2290', C.O. w/air/mist to 2331'. TOH w/ 71 Jts 2-3/8" tbg.
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 breakdown water. Usable water required for frac is 284 bbls.
4. Perf additional FRTC 2281'-89' w/4 spf. Perforate using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 90 degrees & 4 spf. Avg. perf dia.= 0.48". Average penetration is 18" in Berea. Total 32 holes.
5. TIH with 5-1/2" Baker SAP tool on 2-3/8" tbg. Space packing elements @ 2 feet. Breakdown perforations from 2281'-2289' w/100 gal. 7-1/2% HCL per setting. Total acid will be 400 gal. (1 gal/1000 corrosion inhibitor & 1 gal/1000 Clay Sta XP). Record breakdown pressures. TOH.
6. Run 4-1/2" pkr on 2-7/8" NUE N-80 rental tbg w/shaved collars & set @ 2260'. Fracture treat well down frac string with 39,000 gals. of 70 quality foam using 30# gel as the base fluid & 50,000# 20/40 Arizona sand. Pump at 40 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 4500 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	15,000	4,500	----
1.0 ppg	10,000	3,000	10,000
2.0 ppg	5,000	1,500	10,000
3.0 ppg	6,000	1,800	18,000
4.0 ppg	3,000	900	12,000
Flush	( 695)	209	
Totals	39,000	11,700#	50,000#

Shut well in after frac for six hours in an attempt to 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) |
| * 1.0# Gvw3     | (Enzyme Breaker)       |
| * 1.0# B-5      | (Breaker)              |

LODEWICK #14 FRTC - PERF & FRAC BASAL COAL  
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\* 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/frac string. TIH with 3-7/8" bit on 2-3/8" tbg and clean out to 2331' 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 2331'-1600'.
11. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom and again cleanout to 2331'. When wellbore is sufficiently clean, land tbg at 2250'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:	Petro	326-6669
Fracturing:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133
Packer:	Baker	325-0216

PMP

Pertinent Data Sheet - LODEWICK #14 FRTC

Location: 1250' FNL 1690' FEL SEC. 30 T27N R09W, SAN JUAN COUNTY, N.M.

Field: Basin Fruitland Coal

Lease: Federal NM-028617

Elevation: 6442' TD: 2335'

13' KB PBTD: 2331'

DP#: 20862A

GWI: 100.00%

NRI: 83.68%

Completed: 7-5-90

Initial Potential:

Potential: 101 MCF/D, SIBHP= 337 psi

Casing Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
12-1/4"	8-5/8"	20# X-42	224'	200 sx	Circ 59 sx Cmt
8-3/4"	4-1/2"	11.6# J-55	2335'	150 sx	Circ 33 sx Cmt
		Stage Tool @	1899'	525 sx	Circ 135 sx Cmt

Tubing Record: 2-3/8" 4.7# J-55 2201' 71 Jts  
S.N. @ 2200'

Formation Tops:

Ojo Alamo	1376'
Kirtland	1436'
Fruitland	2086'
Pictured Cliffs	2290'

Logging Record: Density, Microlog

Stimulation: Perf FRTC @ 2159'-61', 2166'-69', 2171', 2175', 2183', 2187', 2189', 2193'-95', 2200'-02', 2226'-36' w/4 spf & fraced w/200,000# sand in 70Q foam @ 45-36 BPM @ 1700-2500 psi.

Workover History: None

Production History: 1st delivery = 9-1-90. Cumulative = 62 MMCF. Capacity (w/compressor)= 100 MCF/D. 8-93: Found master valve wedged mostly closed.

Pipeline: EPNG

PMP

# LODEWICK #14 FRTC

UNIT B SECTION 30 T27N R9W  
SAN JUAN COUNTY, NEW MEXICO

