

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <p>2. Name of Operator <i>Meridian Oil Inc. Southland Royalty Co.</i></p> <p>3. Address & Phone No. of Operator Box 4289, Farmington, NM 87499 (505) 326-9700</p> <p>4. Location of Well, Footage, Sec, T, R, M. 1780'S, 1770'W Sec. 6, T-31-N, R-11-W, NMPM</p>	<p>5. Lease Number SF-078115</p> <p>6. If Indian, All.or Tribe Name</p> <p>7. Unit Agreement Name</p> <p>8. Well Name & Number Grenier #20</p> <p>9. API Well No.</p> <p>10. Field and Pool Blanco Pic. Cliffs</p> <p>11. County and State San Juan County, NM</p>
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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 checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<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 plug back the Pictured Cliffs formation and recomplete this wellbore in the Basin Fruitland Coal formation per the attached procedure and wellbore diagram.

RECEIVED
MAR 25 1992
OIL CON. DIV.
[DISL. 3]

RECEIVED
BLM
02 MAR 20 PM 1:02
019 FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct
Signed *[Signature]* (MP) Title Regulatory Affairs Date 03-18-92

APPROVED

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITION OF APPROVAL, IF ANY: _____
MAR 24 1992
DATE
[Signature]
AREA MANAGER

NMOCD

GRENIER #20 FRTC RECOMPLETION
Procedure
K 06 31 11

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. Test operation of rams. NU blooie line and 2-7/8" relief line.
2. TOH W/3080' 1" tbg. Run 4-1/2" csg scraper on new 2-3/8" tbg to 3050'. TOH. Run 2-3/8" tbg & set 4-1/2" cement retainer @ 3050'. Sting out of cmt ret & attempt to load hole w/water. (Csg leak probable).
3. Sting back into cmt ret & squeeze Pictured Cliffs perfs w/10 sx cmt. (This includes 100% excess). Sting out of cmt ret & clean out the long way. TOH.
4. TIH w/fullbore pkr on 2-3/8" tbg & locate csg leak. Squeeze leak w/cmt as required. Drill out cmt to 3050' & pressure test csg to 1000 psi.
5. Perf Fruitland Coal using 4" HSC guns with 23 gram GOEX HSC XXIII (or equivalent) charges. Shoot 4 SPF using correlation from 5/31/69 GR-CCL log @ 3042'-38', 3023'-13', 2962'-49', 2866'-56'. Total of 148 holes.
6. Fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank will be for gel, & one tank for 2% KCL water for breakdown. Usable gel water required for frac is 1120 bbls.
7. TIH with 4-1/2" Baker SAP tool with a 4' spacer on 2-3/8" tbg. Wash perfs using 10 gallons of 15% HCL acid mixed with 5% xylene mutual solvent per foot of perfs and a quaternary amine-type clay stabilizer at 3 gal/1000 gal. TOH.
8. TIH w/pkr on 2-7/8" NUE or shaved collar rental frac string & set pkr @ 2800'. Fracture treat Fruitland coal with 47,000 gals. 70 quality foam using 14,100 gals 30# gel as base fluid & 75,000# Arizona sand. Pump at 30 BPM. Monitor bottomhole and surface treating pressures, rate, & sand concentration, with computer van. All sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi and estimated treating pressure is 4855 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol.</u> <u>(Gals.)</u>	<u>Gel Vol.</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>	<u>Sand</u> <u>Mesh</u>
Pad	20,000	6,000	----	----
1.0 ppg	5,000	1,500	5,000	20/40
2.0 ppg	5,000	1,500	10,000	20/40
3.0 ppg	10,000	3,000	30,000	20/40
4.0 ppg	5,000	1,500	20,000	20/40
5.0 ppg	2,000	600	10,000	20/40
Flush	<u>1,900</u>	<u>570</u>	----	----
Totals	47,000	14,100	75,000#	

Treat frac fluid with the following additives per 1000 gallons:

GRENIER #20 - FRTC RECOMPLETION PROCEDURE

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* 35# J-4 Borate	(Base Gel)
* 1.0 gal. Aqua-Flow	(Non-ionic Surfactant)
* 1.0# B-11	(Enzyme Breaker)
* 1.0# B-5	(Breaker)
* 0.35# Frac-cide 20	(Bacteriacide)
* 2% KCL	

Shut well in after frac for six hours in an attempt to obtain closure pressure and allow the gel to break.

9. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. When well ceases to flow, proceed with Step # 10.
10. TOH w/pkr & frac string.
11. TIH w/notched collar on 2-3/8" tbg & C.O. to 3050'. Take pitot gauges when possible.
12. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 3050'-2500'. (Also check the squeezed csg leak).
13. TIH with 2-3/8" tbg with standard seating nipple one joint off bottom. Land tbg @ 3000'. Take final pitot gauges, water samples, and gas samples.
14. Replace bad valves on wellhead w/rebuilt valves. ND BOP and NU wellhead. Rig down & release rig.

Approved: _____
J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Cmt:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

PMP

GRENIER #20 PC

UNIT K SECTION 6 T31N R11W
SAN JUAN COUNTY, NEW MEXICO

