

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 OIL	5. Lease Number NM-28713
2. Name of Operator Meridian Oil Inc.	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 1650' FSL, 790' FWL Sec. 29, T-24-N, R-3-W, NMPM	8. Well Name & Number Little Federal 29 #3
	9. API Well No.
	10. Field and Pool W. Lindrith G1-DK
	11. County and State Rio Arriba 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"/> 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 Injection
	<input checked="" type="checkbox"/> Other - Add Niobrara pay

13. Describe Proposed or Completed Operations

The Niobrara will be perforated and stimulated in this wellbore. The Niobrara will then be commingled with the existing Dakota per Division Order R-7495. Commingled production will occur within 365 days. Attached is a procedure and wellbore diagram for this work.

RECEIVED  
FEB 22 1993  
OIL CON. DIV.  
DIST. 3

RECEIVED  
BLM MAIL ROOM  
93 JAN 12 PM 2:04  
015 FARMINGTON, N.M.

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

Signed Shirley Mondy (TM) Title Regulatory Affairs Date 1/12/93

(This space for Federal or State Office use)  
APPROVED BY SHIRLEY MONDY Title Area Manager Date FEB 19 1993  
CONDITION OF APPROVAL, if any: SEE ATTACHMENT

NMCOO

Procedure  
**Little Federal 29 # 3**  
Unit L, Sec 29, T24N, R03W  
Niobrara Pay Add

---

Prior to Moving on Location. Notify EPNG to mark tie-in pipeline. Test & Install rig anchors if necessary. Complete all necessary dirt work. Oil production will be recovered to a tank. Notify Production Foreman or Lease operator of initial tank strappings. **Hold Safety Meetings.** Comply with all Governmental and Company Safety Regulations.

---

1. MORU. Pump 25 bbls 2% KCl down tubing. ND WH. NU BOP. TOOH w/ 2-3/8" from 7351'.
2. RU wireline. Run Gage Ring to PBTD(7300'). Set drillable BP @ 7220' (13' above Dakota perms). Fill Hole. Test 4-1/2" K-55 casing to 3000 psi. Test in two increments. Hold pressure 15 minutes. **Contact Engineering before perforating for depth verification with GR-CBL.**
3. Run GR-CCL-CBL from PBTD across desired intervals. Cover 50' above & below DV tool @ 3160'. Locate TOC on each stage. Also cover 100' below surface pipe to surface.
4. Perforate Greenhorn, Semilla, & Juana Lopez intervals bottom up with 3-1/8" select fire HSC as follows (0.38" hole):

2 SPF	7204' to 7210'	(6")	12 holes
2 SPF	7174' to 7196'	(22")	44 holes
1 SPF	7135', 7128', 7110'		3 holes
1 SPF	6965', 6964', 6963', 6931', 6922', 6917', 6851', 6849'		8 holes
1 SPF	6673', 6657', 6641'		3 holes
<b>Total:</b>			<b>70 holes</b>
5. TIH with SAP tool 4' spacing on 2-3/8". Test tool on good pipe to 3500 psi. Breakdown each perforation with 30 gal 7-1/2% HCl acid with 1 gal/1000 clay stabilizer & 2 gal/1000 corrosion inhibitor @ 2-4 BPM. (Total acid 2100 gallons). Record rate & pressure on each setting. Circulate hole with 2% KCl to remove acid. TOOH.
6. w/ wireline set drillable bridge plug @ 6600' Fill hole. w/ PKR on tubing test casing & BP to 3300 psi.
8. Perforate Niobrara A, B, C with 3-1/8" select fire HSC gun bottom up 1 SPF 0.38" holes as follows:

6503', 6448', 6431', 6423', 6413', 6405', 6374', 6372', 6361', 6353', 6349', 6347', 6346', 6334', 6333', 6319', 6318', 6317', 6316', 6315', 6312', 6309', 6308', 6307', 6305', 6278', 6270', 6269', 6268', 6267', 6266', 6255', 6250'	(33 holes)
---	------------
9. TIH w/ SAP tool 4' spacing on 2-3/8". Test tool on clean pipe to 3500 psi. Breakdown each perforation with 30 gal 7-1/2% HCl acid with 1 gal/1000 clay stabilizer & 2 gal/1000 corrosion inhibitor @ 2-4 BPM. (Total acid 990 gallons.) Record rate & pressure on each setting. Circulate hole with 2% KCl water to remove acid. TOOH.
10. Change pipe rams. TIH w/ 2 jts 2-7/8" tubing & PKR. Set PKR and leave annulus open to pit.

11. Prep to Frac Niobrara A, B, C per attached schedule. Job will be tagged with Ir-192 tracer in sand. Max Pressure **3300** psi. Anticipated surface treating pressure 2500 psi.
12. Shut-in 3 hr to allow gel to break & let fracture heal. Flow well back through choke limiting sand & fluid rates to 20 BFPH. When pressures and rates allow TOOH w/ PKR. Change pipe rams. TIH w/ 3-7/8" bit & DC's. Drill Bridge Plugs. Note possible pressure beneath BPs. Push to PBTD of 7500'. TOOH.
13. w/ wireline run after-frac GR log accross newly perforated intervals.
14. TIH w/ production string. Two jts 2-3/8", one 6' perforated sub, one common SN, & remaining 2-3/8" tubing. Land tubing @ 7351'. ND BOP. NU WH. Kick well off and obtain gauge.
15. Notify Production Operations that well is ready for production/swabbing.

Approved:

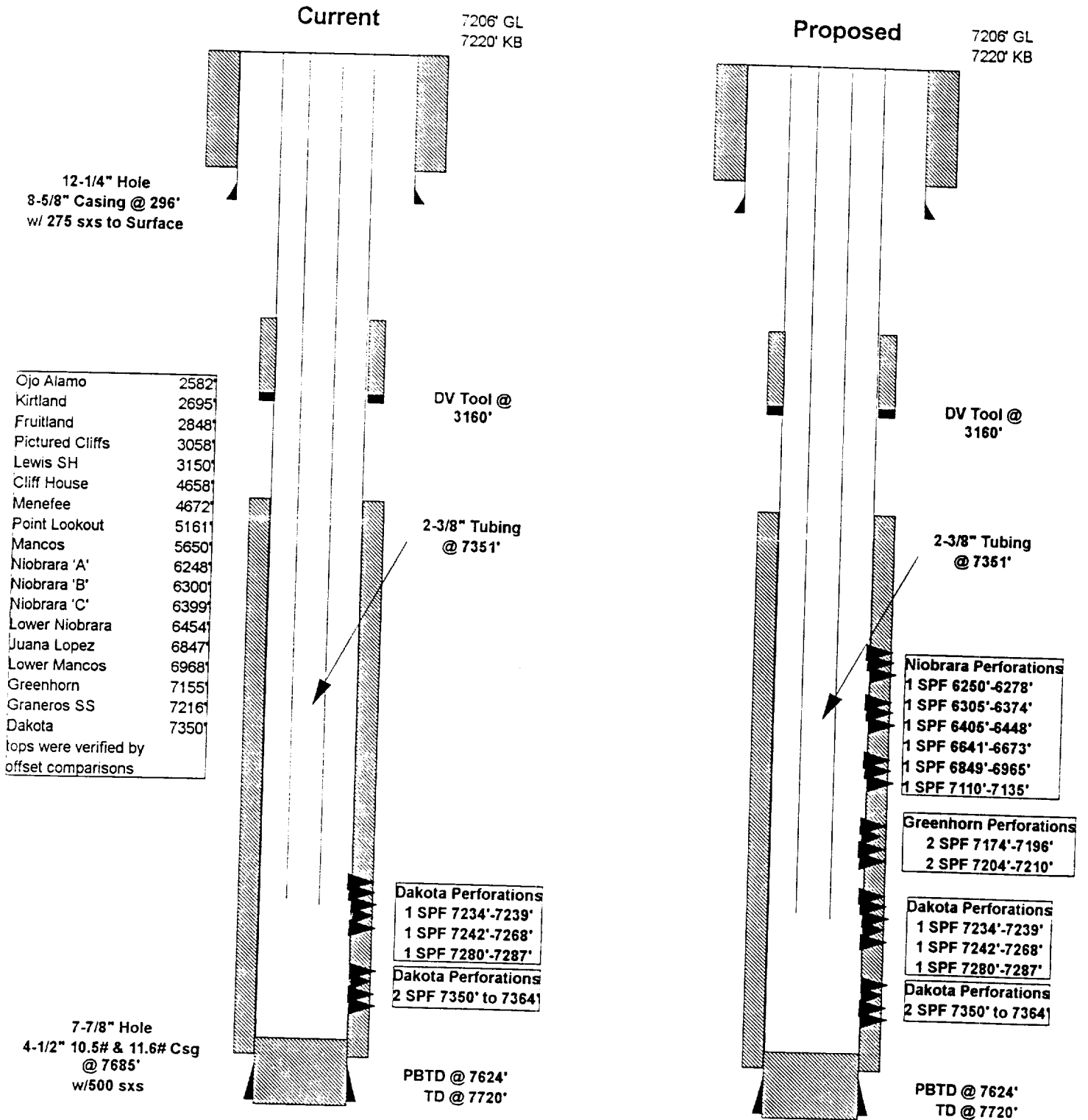
\_\_\_\_\_  
J. A. Howieson  
Drilling Superintendent

Vendors:

Stimulation	Smith Energy	327-7281
Perforating/Logging	Blue Jet Perforators	325-5584
Bridge Plug/SAP	Baker Service Tools	325-0216
Radioactive Tagging	Protechnics	326-7133
Operations	Bruce Voiles	326-9571
Engineering	Tom Mullins	326-9546-W
		325-9361-H

*Jim*

**Little Federal 29 # 3**  
**T24NR03W29L**  
 Niobrara Pay Add & Commingle



The Niobrara Intervals will be added and commingled with the existing Dakota per the WLGD pool rules.

**BLM CONDITIONS OF APPROVAL**

Operator Meridian Oil Inc. Well Name Little Fed 29 #3

Legal Location 1650 FSL 790 FWL Sec. 29 T. 24 N. R. 3 W.

Lease Number NM 28713

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimum Federal restoration requirements will be required.

1. Pits will be fenced during workover operation.
2. All disturbances will be kept on existing pad.