

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-28715 6. If Indian, All. or Tribe Name 7. Unit Agreement Name 8. Well Name & Number Arco Little Fed 32 #1 9. API Well No. 10. Field and Pool W.Lindrith G1-Dk 11. County and State Rio Arriba Co, NM
2. Name of Operator Meridian Oil Inc.	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	
4. Location of Well, Footage, Sec., T, R, M 970'FNL, 790'FWL Sec.32, T-24-N, R-3-W, NMPM	

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
BLM MAIL ROOM
93 JAN 12 PM 2:05
019 FARMINGTON, N.M.

FEB 22 1993
 OIL CON. 3
 DIST. 3

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 Acting Area Manager

CONDITION OF APPROVAL, if any: SEE ATTACHMENT

Date FEB 19 1993

NWCOO

Procedure
Arco Little Federal 32 # 1
Unit D, Section 32, 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. Blow Down Well. ND WH. NU BOP. TOO H w/ 2-3/8" tubing.
2. RU wireline. Run gage ring to current PBTD of 7344'. Perforate Lower Mancos, Juana Lopez, & Lower Niobrara intervals with 3-1/8" select fire HSC gun bottom up 2 SPF 0.38" hole as follows. Note perforations were correlated to GR-CCL-CBL run 11-10-92.

7211', 7206', 7201', 7092', 7089', 7087', 7057', 7050', 7045', 7027', 7021', 7009', 7002', 6990', 6982', 6979', 6973', 6795', 6778', 6708', 6693', 6623', 6610', 6603' (48 holes)
3. TIH w/ SAP 4' spacing on 2-3/8". Test tool on good pipe to 3500 psi. Breakdown each perforation with 30 gal of 7-1/2% HCl acid with 1 gal/1000 of Clay stabilizer & 2 gal/1000 corrosion inhibitor @ 2-4 BPM. (Total acid 1440 gallons.) Record rate & pressure on each setting. TOO H.
4. w/ wireline set drillable BP @ 6575'. Fill hole. Test BP to 3000 psi.
5. Perforate Niobrara A, B, C with 3-1/8" select fire HSC gun bottom up 1 SPF 0.38" holes as follows.

6545', 6540', 6533', 6530', 6521', 6518', 6474', 6467', 6466', 6464', 6458', 6449', 6447', 6445', 6433', 6429', 6428', 6427', 6426', 6425', 6424', 6423', 6389', 6380' (24 holes)
6. TIH w/ SAP tool 4' spacing on 2-3/8". Test tool on clean pipe to 3500 psi. Breakdown each perforation with 60 gal 7-1/2% HCl acid with 1 gal/1000 clay stabilizer & 2 gal/1000 corrosion inhibitor @ 2-4 BPM. (Total acid 1440 gallons.) Record rate & pressure on each setting. Circulate hole with 2% KCl water to remove acid. TOO H.
7. Change pipe rams. TIH w/ 2 jts 2-7/8" tubing & PKR. Set PKR and leave annulus open to pit.
8. Prep to Frac Niobrara A, B, C per attached schedule. Job will be tagged with Ir-192 tracer in sand. Max Pressure 3900 psi. Anticipated surface treating pressure 2500 psi.
9. 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 TOO H 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 7624'. TOO H.
10. w/ wireline run after-frac GR log accross newly perforated intervals.
11. TIH with 2 jts 2-3/8", one 6' perf sub, one common SN, & remaining jts 2-3/8" and circulate hole with air & 5 bbl water slugs. Allow well to flow until logging off. Land tubing @ 7420'. ND BOP & NU WH. Drop ball and pump of check. Circulate hole with air mist. Flow well up tubing to verify check has been pumped off. Obtain final gauges. RD. Release Rig.

12. Notify Production Operations that well is ready for production/swabbing.

Approved:

J. A. Howieson
Drilling Superintendent

Vendors:

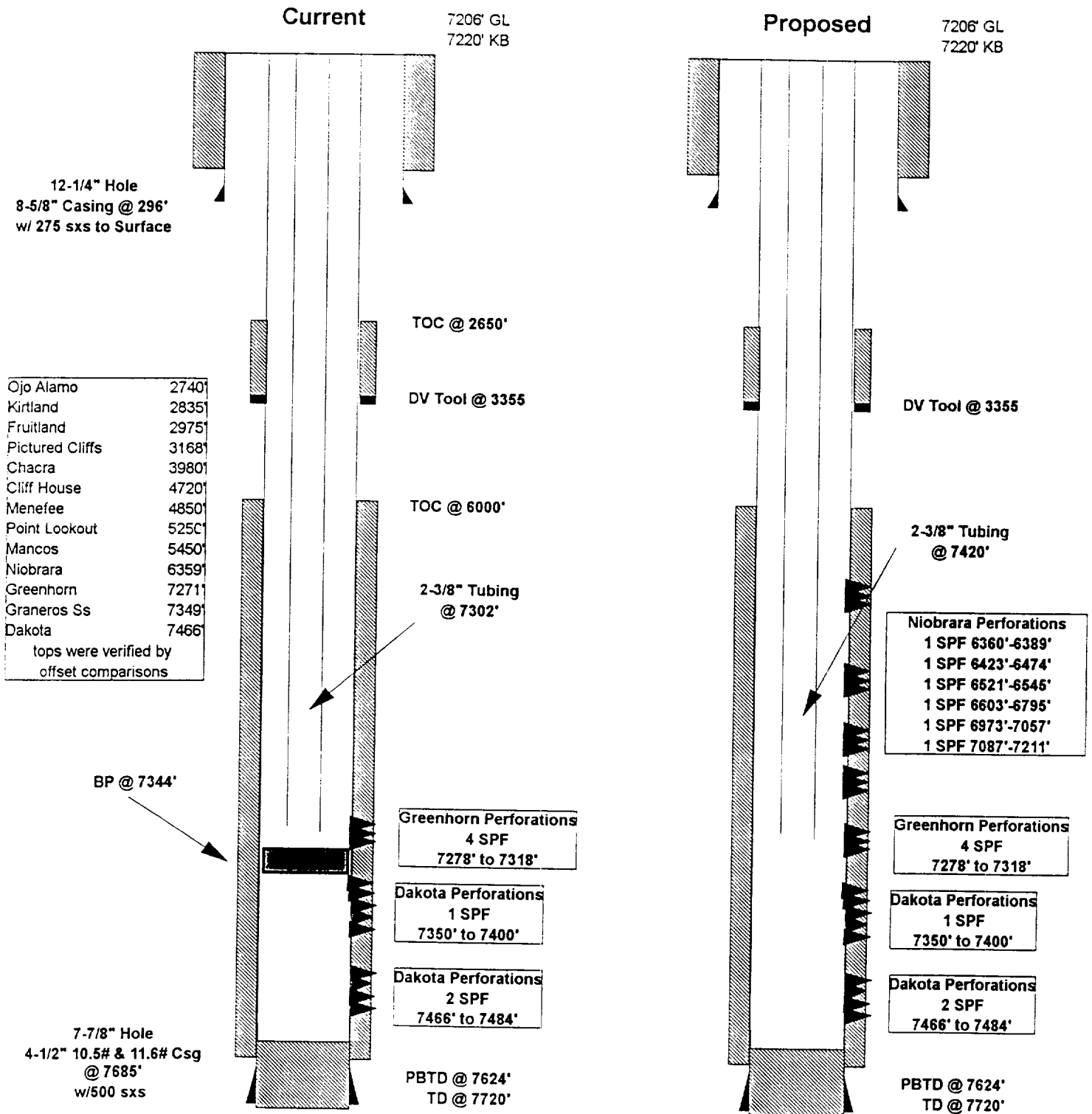
Stimulation	Dowell Schlumberger	325-5096
Perforating/Logging	Basin Perforators	327-5244
Bridge Plug/SAP	Baker Service Tools	325-0216
Radioactive Tagging	Protechnics	326-7133
Operations	Bruce Voiles	326-9571
Engineering	Tom Mullins	326-9546-W
		325-9361-H

Jgm

Arco Little Federal 32 # 1

T24NR03W32D

Niobrara Pay Add & Commingle



The Dakota is temporarily abandoned under a drillable bridge plug. The Greenhorn is on production test.

The remaining Niobrara intervals will be added and commingled with the existing Greenhorn & Dakota intervals per the West Lindrith Gallup Dakota Pool.

BLM CONDITIONS OF APPROVAL

Operator Meridian Oil Inc. Well Name Arco Little Fed 32 #1

Legal Location 970 FNL 790 FWL Sec. 32 T. 24 N. R. 3 W.

Lease Number NM 28715

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.