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

MAY 31 1994
OIL CON. DIV.
DIST. 3

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**
1850'FSL, 1850'FWL Sec.32, T-24-N, R-3-W, NMPM

5. **Lease Number**
NM-86430

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

8. **Well Name & Number**
Arco Little Fed 32 #3

9. **API Well No.**
30-039-

10. **Field and Pool**
W.Lindrith Gl Dakota

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		
_x_ Notice of Intent	___ Abandonment	___ Change of Plans	
	___ Recompletion	___ New Construction	
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing	
	___ Casing Repair	___ Water Shut off	
___ Final Abandonment	___ Altering Casing	___ Conversion to Injectio	
	_x_ Other -		

13. **Describe Proposed or Completed Operations**

REVISED

The **Burro Canyon (Lower Dakota)** will be perforated and stimulated in this wellbore in the following manner: TOOH w/ production tbg. Run CBL to verify TOC. If good top is not seen at least 50' above proposed top Burro Canyon perforation, remedial cement work will be performed. Perforate the Burro Canyon from approximately 7553' - 7584'.TIH w/ 2-3/8" workstring and set packer at +/-7500'. Breakdown w/ approximately 1,600 gals acid and fracture stimulate. Run after frac gamma ray log in an atternpt to verify if frac stayed in zone. RIH w/ RBP and set at 6590'.

The **Niobrara (Gallup)** will be perforated and stimulated in this wellbore in the following manner: Run CBL to verify TOC. If good top is not seen at least 50' above proposed top Niobrara perforation, remedial cement work will be performed. Perforate the Niobrara from approximately 6280' - 6560'. Stimulate w/ approximately 2,400 gals acid and fracture stimulate. Run after frac gamma ray log in an atternpt to verify if frac stayed in zone. RIH w/ 2-3/8" production tbg and land at approximately 7575'. Return well to production and evaluate for pumping unit application. The Niobrara will be commingled with the existing Dakota per Division Order R-7495. Attached is a procedure and wellbore diagram for this work.

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

Signed Peggy Bradfield Title Regulatory Affairs Date 4/29/94

(This space for Federal or State Office use)
APPROVED BY /s/ Patricia M. Hester Title Acting Chief, Lands and Mineral Res Date MAY 26 1994
CONDITION OF APPROVAL, if any:

Pertinent Data Sheet - Arco Little Federal 32 #3

Location: 1850' FSL, 1850' FWL, Unit K, Section 32, T-24-N, R-03-W Rio Arriba Co., NM

Field: West Lindrith Dakota
West Lindrith Gallup

Elevation: 7204' GL

TD: 7638'
PBTD: 7520'

Spud Date: 5/28/78
Completed: 7/13/78

DP#: 45426A (DK)
Prop. #: 012691801
GWI: 100%
NRI: 83.93%

Casing Record:

Hole Size	Casing Size	Weight & Grade	Depth Set	Cement	Top/Cement
12-1/4"	8-5/8"	24.0# S.W. & C.	364'	350 sx	Surface
7-7/8"	4-1/2"	10.5# K-55	7616'	750 sx*	(Calc)

* Two stages. DV set @ 3337': Stg 1 Calc TOC @ 5900'
Stg 2 Calc TOC @ 2000'

Tubing Record:

Tubing Size	Weight & Grade	Depth Set
2-3/8"	4.70# K-55	7257' **

**Constriction @ 6273', NOWSCO 1" tbg fish.

Formation Tops:

Ojo Alamo	2707'
Pictured Cliffs	3120'
Lewis	3213'
Chacra	3995'
Cliffhouse	4675'
Menefee	4772'
Point Lookout	5245'
Mancos	5390'
Gallup	6218'
Greenhorn	7198'
Dakota	7277'
Burro Canyon	7550'

Logging Record: IES, CNL, FDC-GR and Caliper.

Stimulation:
Perfed Dakota: 7276' - 7405'
Frac'd Dakota: 2 stages; Paguate: 41,000 gal. and 40,000 lbs. 20/40 sand.
Two Wells: 80,000 gal. and 80,000 lbs. 20/40 sand

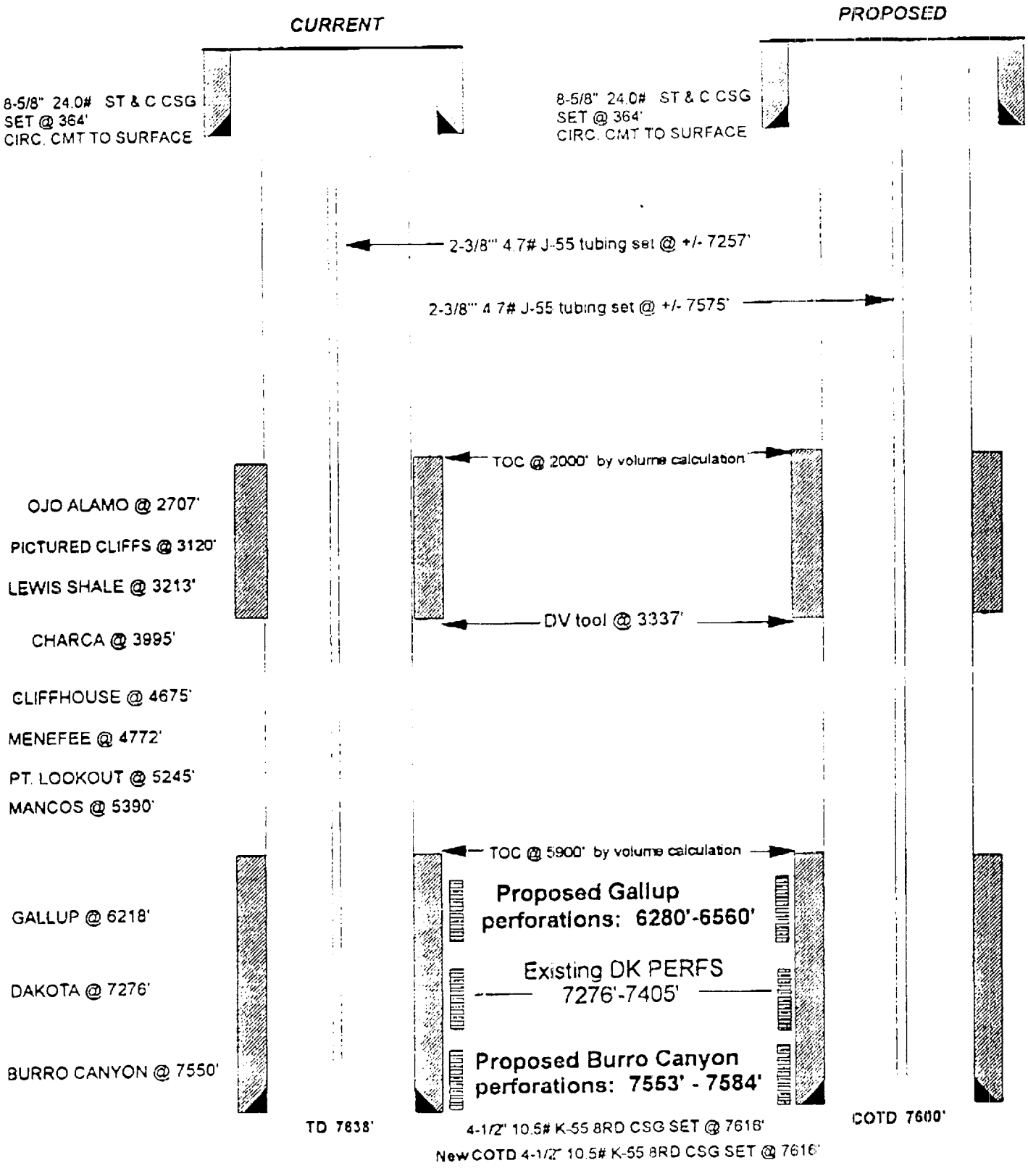
Production:
Oil: EUR: 40,514 BO CUMM: 38,461 BO CURRENT: 0.6 BOPD

Gas: EUR: 1,821 MMCF CUMM: 1,691 MMCF CURRENT: 5 MCFD

Workover History: N/A.

Arco Little Federal 32 #3

Unit K, Sec. 32, T24N, R3W
Rio Arriba Co., NM
Burro Canyon/Gallup Pay Adds and Stimulations



Arco Little Federal 32 #3

Unit K, Section 32, T24N, R3W

Recommended Recompletion Procedure

Gallup and Burro Canyon Pay Adds & Completions

Note: Notify BLM (761-8762) and NMOCD (334-6178) 24 hours prior to rig activity.

Inspect location and install and/or test rig anchors. Install 1 - 400 bbl rig tank and fill w/ 2% KCl water. Approximately 243 jts. 2-3/8" 4.7# J-55 tubing will be required (MOI, District Tools) for production. Approximately 243 jts. 2-3/8" 4.7# N-80 tubing will be required (MOI, District Tools) for treatment. Comply with all BLM, NMOCD, Jicarilla Apache, and MOI rules and regulations. Notify engineering when work has commenced. Hold Safety Meetings on a regular basis.

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1. Install 3 X 400 bbl frac tanks and fill with 2% KCl water.

2. Hold Safety Meeting. MIRU. Place fire and safety equipment in easily accessible locations. NU relief line and blooie line to laydown flow tank. Obtain and record all wellhead pressures.

3. Blow down tubing. If tubing will not blow down, kill well with KCl water. PBTD is 7520'.

4. TOOH with 7257' of 2-3/8" 4.70# tubing, visually inspect and tally tubing.

5. PU 2-3/8", 4.7# workstring. TIH w/ 3-7/8" bit on tubing and cleanout to 7600'. (FC @ 7571', Shoe @ 7614') Circulate w/water until returns are clean. Roll hole w/ 2% KCl water. TOOH. TIH w/ packer, set at 7250' and pressure test backside to 1000 psi for 15 min. TOOH

6. RU wireline. RIH with 4-1/2" 10.5# guage ring and check pipe. Run GR - CBL - CCL in 4-1/2 casing from new COTD to Surface pipe (TOC was calculated at 5900'). Good TOC must be above 7500' for the Burro Canyon and 6170' to complete the Gallup interval. Evaluate GR - CBL - CCL and send copy to production engineering.

Burro Canyon Stimulation:

7. Perforate the following interval w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 spf (180° phasing):

   7553' - 7584', (62 Holes)

8. RD wireline. TIH w/ 2-3/8" N-80 workstring and set packer at 7500', load backside and monitor pressure.

9. RU stimulation company. **Hold Safety Meeting.** Pressure test surface treating lines to 7000 psi. **Maximum STP during acid job is 6000 psi.** Pump 1,600 gals 15% HCl w/additives at a rate of 3-4 BPM, attempt to ball-out the perforations. Drop a total of 93 7/8" RCN ball sealers (1.3sp.gr.) spaced evenly throughout the job. Record rates and pressures while attempting to achieve ball-out.

10. RD stimulation company. Lower packer to 7590' to knock off ball sealers. RU wireline. RIH w/ wireline and obtain a 24 hour Pressure Build-up test. RD wireline. Attempt to flow test well and obtain post breakdown flow rates. If sufficient gas production exists, the Burro Canyon will not be fracture stimulated.

Arco Little Federal 32 #3
Burro Canyon/Gallup Pay-Add

10. (con't)
Decision Point: The addition of the Gallup interval may be postponed for two - three months based on the test results of the Burro Canyon. Contact Production Engineering prior to setting the RBP above the Dakota.

If minimal gas rates are present, set packer at 7500' and prepare to fracture stimulate.

11. RU stimulation company. Prepare to fracture stimulate the Burro Canyon. Pressure test surface treating lines to 7000 psi. **Maximum treating pressure is 6000 psi.** Fracture and tag the Burro Canyon according to the attached procedure. Flow-back the well immediately using a variable choke manifold (1/4 - 1/3 bpm max.). Increase choke size as needed to keep the well from logging off, if possible. When pressures and flow rates allow, TOOH w/ tubing.

Decision Point: The addition of the Gallup interval may be postponed for two - three months based on the test results of the Burro Canyon. Contact Production Engineering prior to setting the RBP above the Dakota.

12. PU RBP, TIH and set RBP at 6590' and top w/ 2 sx sand. Pressure test casing and RBP to 3200 psi. (If casing holds 3200 psi, acidize and fracture stimulate the Gallup interval down the casing, if the pressure test does not hold, the Gallup will be stimulated down workstring.) TOOH w/ tubing.

Gallup Stimulation:

13. Perforate the following interval w/ 3-1/8" HSC -3125-306, 12 gram Owen charges 0.31" holes w/ 12.02 " penetration, 2 spf (180° phasing):

6280' - 6330', 6350' - 6418', 6450' - 6560'. (110 Holes)

14. RD wireline. TIH w/ workstring and set packer at 6250'.

15. RU stimulation company. **Hold Safety Meeting.** Pressure test surface treating lines to 7000 psi. **Maximum STP during acid job is 6000 psi.** Pump 2,400 gals 15% HCl w/additives at a rate of 3-5 BPM, attempt to ball-out the perforations. Drop a total of 165 7/8" RCN ball sealers (1.3sp.gr.) spaced evenly throughout the job. Record rates and pressures while attempting to achieve ball-out.

16. RD stimulation company. Lower packer to 6570' to knock off ball sealers. RU stimulation company. Prepare to fracture stimulate the Gallup.

17. Pressure test surface treating lines to 7000 psi. **Maximum treating pressure is 6000 psi.** Fracture and tag the Gallup according to the attached procedure. Flow-back the well immediately using a variable choke manifold (1/4 - 1/3 bpm max.). Increase choke size as needed to keep the well from logging off, if possible. When pressures and flow rates allow, TOOH w/ tbg and pkr.

18. TIH w/ retreleving head and 2-3/8" 4.70# N-80 workstring and clean out to the retrievable bridge plug at 6590' with air until sand production is minimal. RIH w/ wireline and obtain a 24 hour Pressure Build-up test. Obtain gauge, oil rate and sample, and water rate and sample. Latch onto the retrievable bridge plug and TOOH.

Arco Little Federal 32 #3
Burro Canyon/Gallup Pay-Add

19. TIH w/ notched collar and 2-3/8" 4.70# N-80 workstring and clean out to 7600' COTD with air until sand production is minimal. RIH w/ wireline and obtain a 24 hour Pressure Build-up test. Obtain gauge, oil rate and sample, and water rate and sample. TOOH.

20. RU wireline, run After-frac Tracer Survey-GammaRay 7600' - 6100' (report if fracs stayed in zone, if possible), POOH. RD wireline. Send copy of logs to Production Engineering.

21. TIH w/ one joint 2-3/8" 4.7# J-55 tubing w/ expendable check on bottom, 'F' nipple, and 2-3/8" production tubing. Cleanout to 7600' with air. Land tubing @ +/-7575' (25' of rathole) . ND BOP. NU WH. Contact Production Operations for swabbing/well tie-in. RD and MOL.

Approved: _____
Drilling Superintendent

Suggested Vendors/Contacts:

Wireline:	Basin Perforating	327-5244
Radioactive Tag:	ProTechnics, Intl	326-7133
Tubing:	MOI, District Tools	326-9826
Packer/Bridge Plug	Mountain States	326-5141
Pressure Build-up:	Tefteller Inc.	325-8476
Stimulation:	WCNA	327-6222
Production Oper.:	Bruce Voiles	326-9571
Engineering:	Brian Ault	326-9871 w 326-6613 h