

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

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  
1350'FSL, 1225'FWL, Sec.33, T-30-N, R-11-W, NMPM

*SF-076387*  
5. Lease Number  
~~NM-83984~~  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name  
8. Well Name & Number  
Federal Com #502  
9. API Well No.  
30-045-27282  
10. Field and Pool  
Basin Fruitland 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"/> 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 - Recavitate	

13. Describe Proposed or Completed Operations

It is intended to recavitate this well per the attached procedure and wellbore diagram.

RECEIVED  
SEP 15 1994

OIL CON. DIV.  
DIST. 3

RECEIVED  
BLM  
SEP 22 PM 2:56  
070 FARMINGTON, NM

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

Signed *[Signature]* (KS2) Title Regulatory Affairs Date 8/30/94

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

APPROVED

SEP 06 1994

WATERMAN MANAGER

# MERIDIAN OIL - RECAVITATION PROCEDURE

## FEDERAL COM #502

### GENERAL WELL DATA :

Well Name :Federal Com #502  
Location : Sec 33-T30N-R11W  
County, State : San Juan, NM  
Field : Basin Fruitland Coal  
Formation : Fruitland Coal  
Elevation : 5866"  
AFE # :

GEOLOGY :	MD	TD: 2124'
Surface :		
Ojo Alamo :	724'	INT. TD: 1890'
Kirtland :	881'	
Fruitland Coal Top :	1730'	
Fruitland Coal Base :	2124'	
Pictured Cliffs :		

### PROCEDURE :

1. MIRU WO Rig.
2. NU BOP's. TOOH with 2-3/8" tubing and stand back.
3. RU wellsite blowlines, flowlines, and mudlogging operations and collect samples per request. RU pressure recorder on air injection line.
4. PU 4-3/4" mill and TIH W/ 3-1/2" DP (enough to clean out to TD). Clean out to TD w/air and water. TOOH.
5. Well has 5-1/2"x7" T.I.W. liner hanger w/ JGS pkr w/hold downs (see attached tally). PU setting tool, bumper sub, jars and 4-3/4" drill collars on 3-1/2" DP and TIH. Screw into liner top and Jar liner free and TOH with liner.
6. If liner pulls free, LD w/ 5-1/2" liner and send liner to A-1 Machine for rework if necessary ( check w/ office first). IF LINER DOES NOT PULL FREE GO TO STEPS 6ATO 6D. (check w/ office first).
  - 6a. TIH with chemical cutter and cut off liner 10' beneath 7" shoe.
  - 6b. TIH w/ CBL and collar locator to 7" casing shoe and log up 200'.
  - 6c. RIH with 7" CIBP and set above liner hanger so whipstock is in the casing tube. PU whipstock on 3-1/2" DP and RIH. Set whipstock on CIBP.
  - 6d. Mill out window. PU drilling assembly and drill to TD with 6-1/4" bit and air.

7. Under ream 6-1/4" hole to 9" hole with OFR 9"X Bit and air. TOOH.
8. TIH w/ 6-1/4" bit and DC and clean out hole to TD.
9. Pull up into 7" casing and obtain a Baseline Flow Test (1 hr.). After flow test, shut well in for 4 hours or until BHP stabilizes.
10. Begin NATURAL SURGES. Shut well in for 1 hr pressure build-up and record pressures in 15 minute increments. Obtain 1 hr. flow test once every 24 hr. period and plot results (rate vs cst flow test).
11. Upon initial build up, if well does not build up to BHP naturally, pressure up to BHP with air/gas and surge well.
12. If well does not cavitate, increase pressure in 250 psi increments. Do not exceed BHP. If injection pressure build up curve breaks over, surge well. Use air injection pressure recorder to determine maximum build up pressure.
13. Discontinue air injections if well begins to make coal fines.
14. Clean out open hole as hole dictates. Monitor pressure recorder for signs of hole bridging.
15. **Rotate and reciprocate the pipe at all times during clean out.** Pull into 7" csg for all production tests.
16. Record all gauges in the IADC Daily Drilling Report & on WIMS report. When hole is clean and stabilized, a decision will be made to snub or strip in the liner or to leave open-hole.

17. Liner specifications:

**Type:** 5-1/2" 15.5# J-55 4 SPF  
**Vendor:** TIW

#### 18. LINER RUNNING PROCEDURE

**DO NOT TAKE RISKS  
EXTINGUISH ALL OPEN FLAMES  
OPEN WELL THRU 2" LINES AND MANIFOLD LINES**

##### **STRIPPING:**

- A) Rig up casing crew and change out stripping rubber to 5-1/2". Change out lower rams in upper BOP to 5-1/2". Run 5-1/2" liner through the 5-1/2" stripping rubber.
- B) Pick up the liner hanger (steel sleeve), string float, and (1) one joint of 3-1/2" drill pipe. Make up to 5-1/2" casing.
- C) When liner hanger clears the upper BOP, close the top set of 3-1/2" pipe rams. Change out stripping rubber to 3-1/2" and run remaining drill pipe.
- D) Wash to TD with water (slow rate), set the liner hanger and release the setting tool. **DO NOT ROLL THE HOLE WITH WATER.** Trip out of the hole.
- E) Lay down the drill pipe -Shut blinds- Change out rams for tubing. TIH with milling assembly and tubing -Mill plugs to PBSD.

## SNUBBING

- A) Lay down drill collars and shut in well.
  - B) Rig up snubbing unit over blind rams - Test stack.
  - C) HOLD SAFETY MEETING WITH EVERYONE PRESENT
  - D) Snub in liner using open TIW valve on each joint. Install liner hanger (hyd set w/ pack off), change over to drill pipe rams - Run drill pipe / liner to the bottom of the 7" casing.
  - E) Load drill pipe with water - open choke valve. Displace gas w/ water at 4 BPM +/- 1 BPM. Shut in well. Snub in hole to TD and set hanger.
  - F) Lay down (2) joints of drill pipe - verify no pressure - rig down snubbing unit. Lay down drill pipe. Shut blinds / change rams to fit tubing.
  - G) TIH w/ milling assembly and tubing - Mill plugs to PBTD.
- 19) TIH w/ expendable check, model 'F' profile nipple one joint off bottom, and tubing. Land tubing a minimum of 45' off bottom. Run lock down screws in on donut.
- 20) Nipple down BOP - Nipple up wellhead assembly.
- 21) Blow the hole clean with air for (1) hour. Drop ball and pump off expendable check.
- 22) Take final gages (gas, water) at 15 min, 30 min, 45 min, and 60 min. Notify production operations - Catch gas & water samples as required. Shut in well - Rig down.

Compiled By:

 8/24/94

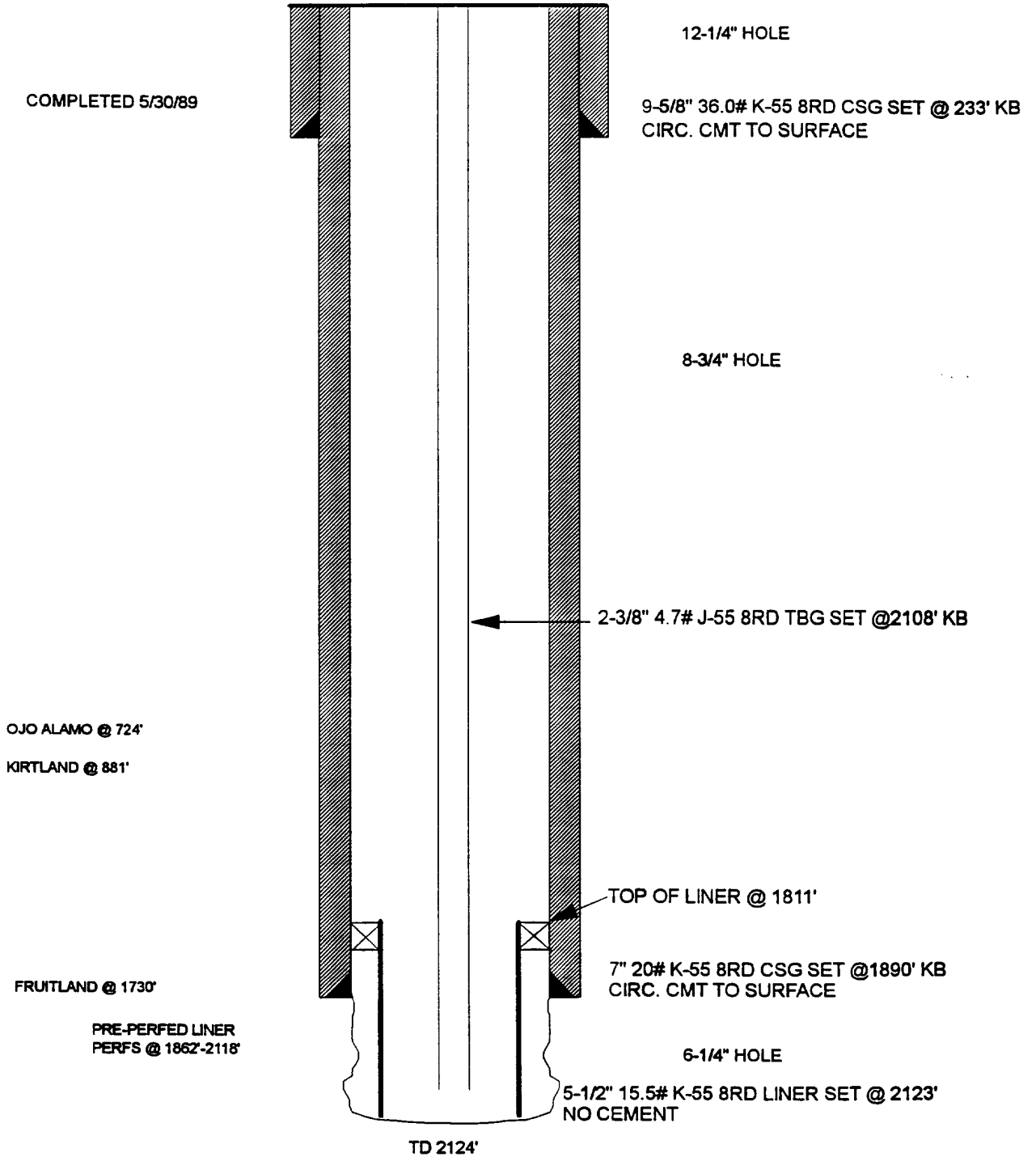
Frank Seidel  
Sr. Drilling Engineer

Approved By:



Pat Bent  
Drilling Superintendent

**Federal Com #502**  
BASIN FRUITLAND COAL  
SECTION 33, T30N-R11W, SAN JUAN CO, NM



MERIDIAN OIL CO.  
 PIPE RECORD

FIELD BASS FERTLAND COAL

**LEASE**

FEDERAL COM

WELL NO. 502

30 May 19

**PIPE TALLY** - Show every piece of equipment going into the hole in the order run.

COLUMN 1		COLUMN 2		COLUMN 3		COLUMN 4		COLUMN 5		COLUMN 6		COLUMN 7		COLUMN 8	
GRADE WT.		GRADE WT.		GRADE WT.		GRADE WT.		GRADE WT.		GRADE WT.		GRADE WT.		GRADE WT.	
JT NO.	FEET	JT NO.	FEET	JT NO.	FEET	JT NO.	FEET	JT NO.	FEET	JT NO.	FEET	JT NO.	FEET	JT NO.	FEET
	58	2.116		K-SS • 44 11 • 49 48 • 39 11 • 44 21 • 43 99 • 44 04 44 06		J-SS S 115									
<u>USED 6' x 33'</u> <u>SERIES BUT</u>															
		<u>CROSS OVER SUB</u> <u>w/ FLANGE TYPE PLATE</u>						<u>LINER HANGER</u>							
TOTAL	0.68	TOTAL	2.116	TOTAL	304.00	TOTAL	5.15	TOTAL		TOTAL		TOTAL		TOTAL	

Jts. on rack before running		Jts. left on rack after running					No. Jts. run	
COLUMN NO.	ITEM	JTS.	O. D.	WEIGHT	GRADE	THREAD	MAKE	FEET
1	Used 6" S33F Sae 30707	1	6 1/4"	1	1	3/4 Reg	SECURITY	
2	3 1/2" Reg. Box x 5 1/2" 8" Box w/ Couer w/turn	1	5 1/4 x 1 1/4"	1	1	3/4 Reg x 5/8"	SNDP	2
3	CASING	7	5 1/2"	15.50*	K-55	8 <sup>00</sup>	USS	304
4	5 1/2" x 7" Tube "JGS" Pre w/ Hand Drums	1	6 3/8"	17.0*	J-55	8 <sup>00</sup>	T.I.W.	5
5								
6								
7								
8								

REMARKS P.B.T.D. = 2120.26'	TOTAL	311
TOP OF T.I.W 55' x 17" LINE HANGER SET 1811.11	JOINTS NOT RUN	-
OVER LAP w/ 7" CANTH = 79'	CUT OFF	-
• - DESIGNATES FULLY PEENED & PHOSPHO JT w/ 4 HAZ/FT	TOTAL	311
REF. INTERVALS: 1861.85 → 1902.61, 1905.89 → 1946.65, 1949.89 →	TOP OF T.I.W DRIVE BUSHING TO TOP OF C.M. LINE HANGER / DRIVE JOINT	1811
1990.73, 1994.10 → 2029.97 & 2077.93 → 2118.52	SET AT	2123
	CO. REP. M.A. [Signature]	



WELL FEDERAL COM #502  
FIELD BASIN FRUITLAND COAL  
COUNTY SAN JUAN  
STATE NEW MEXICO

LOCATION SEC. 33, T30N, R11W  
1350' FSL, 1225' FWL  
ELEVATION 5871' GL, 5884' KB

DRILLING FLUIDS AIR/MIST To 2124'

DEPTH LOGGED 1890' To 2124' TD  
DATE LOGGED MAY 28, 1989 To

GEOLOGISTS: LEON NEUENS

LIMESTONE  
DOLOMITE  
CHERT

DULL COAL  
SILTSTONE  
ANHY-GYP

OIL SHOW  
TRACE  
FAIR  
GOOD

CORE NO.  
DST NO.  
DEVIATION

NB - NEW BIT  
NR - NO RETURNS  
CO - CIRCULATE OUT  
NS - NO SAMPLE

TG - TRIP GAS  
CG - CONNECTION GAS  
DTG - DOWN TIME GAS  
DZ - DESORPTION ZONE

