

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p>	<p>5. Lease Number SF-047017B</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name</p>
<p>2. Name of Operator MERIDIAN OIL</p>	<p>8. Well Name &amp; Number Angel Peak B #31</p> <p>9. API Well No. 30-045-</p> <p>10. Field and Pool Basin Ft Coal</p> <p>11. County and State San Juan Co, NM</p>
<p>3. Address &amp; Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p>	
<p>4. Location of Well, Footage, Sec., T, R, M 990'FNL, 1650'FWL Sec.25, T-28-N, R-11-W, NMPM</p>	

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 type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" 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 planned to further perforate and stimulate the Fruitland Coal in this well according to the attached procedure and wellbore diagram.

**RECEIVED**  
AUG - 6 1993  
OIL CON. DIV.  
DIST. 3

070 FARMINGTON, NM  
03 AUG - 3 AM 9:33  
RECEIVED  
BLM

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

Signed [Signature] (KAS) Title Regulatory Affairs Date 8/2/93

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ **APPROVED**

CONDITION OF APPROVAL, if any:

AUG 08 1993

DISTRICT MANAGER

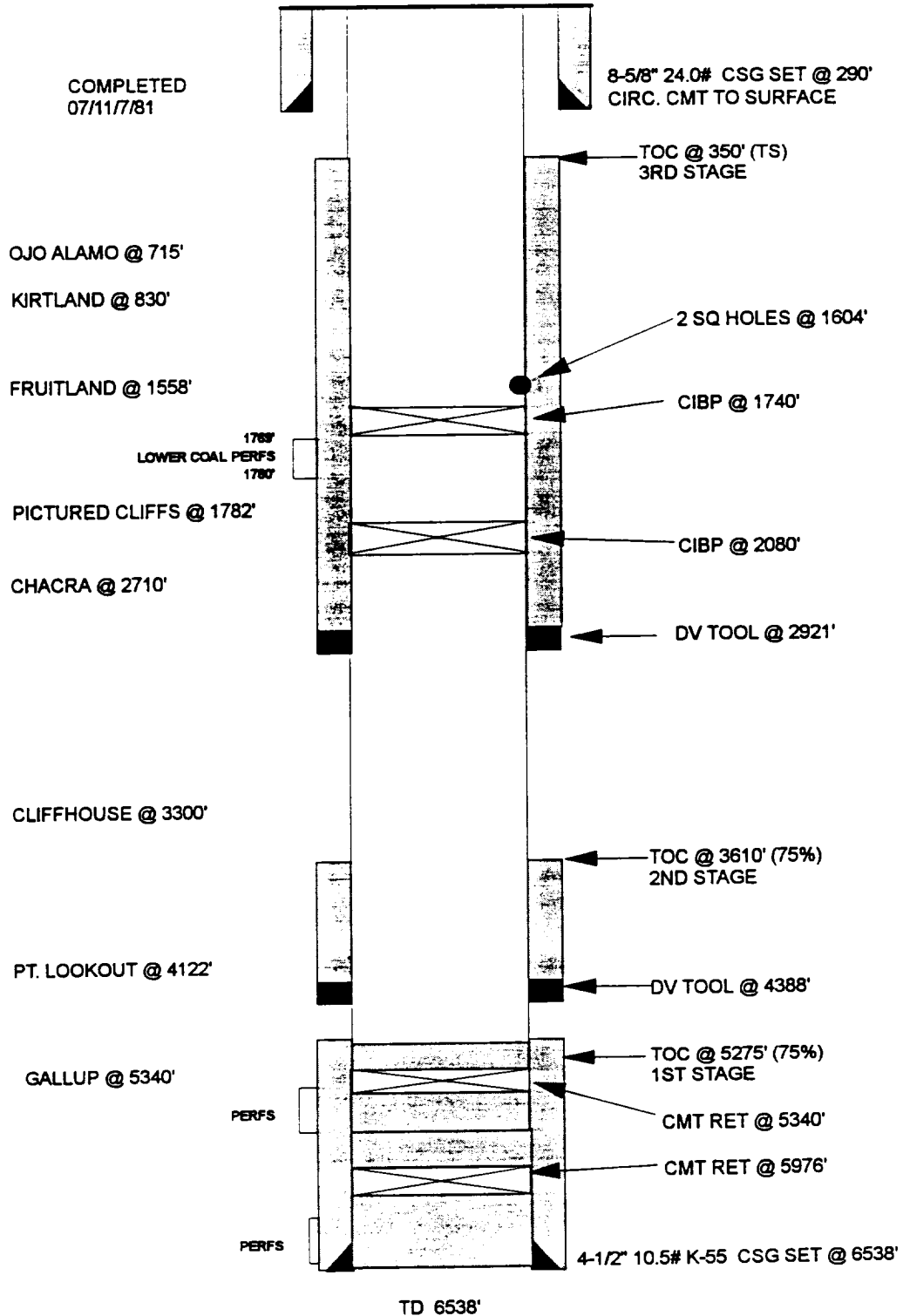
NMOCD

# ANGEL PEAK B # 31

CURRENT

BASIN FRUITLAND COAL

UNIT C, SEC 25, T28N, R11W, SAN JUAN COUNTY, NM

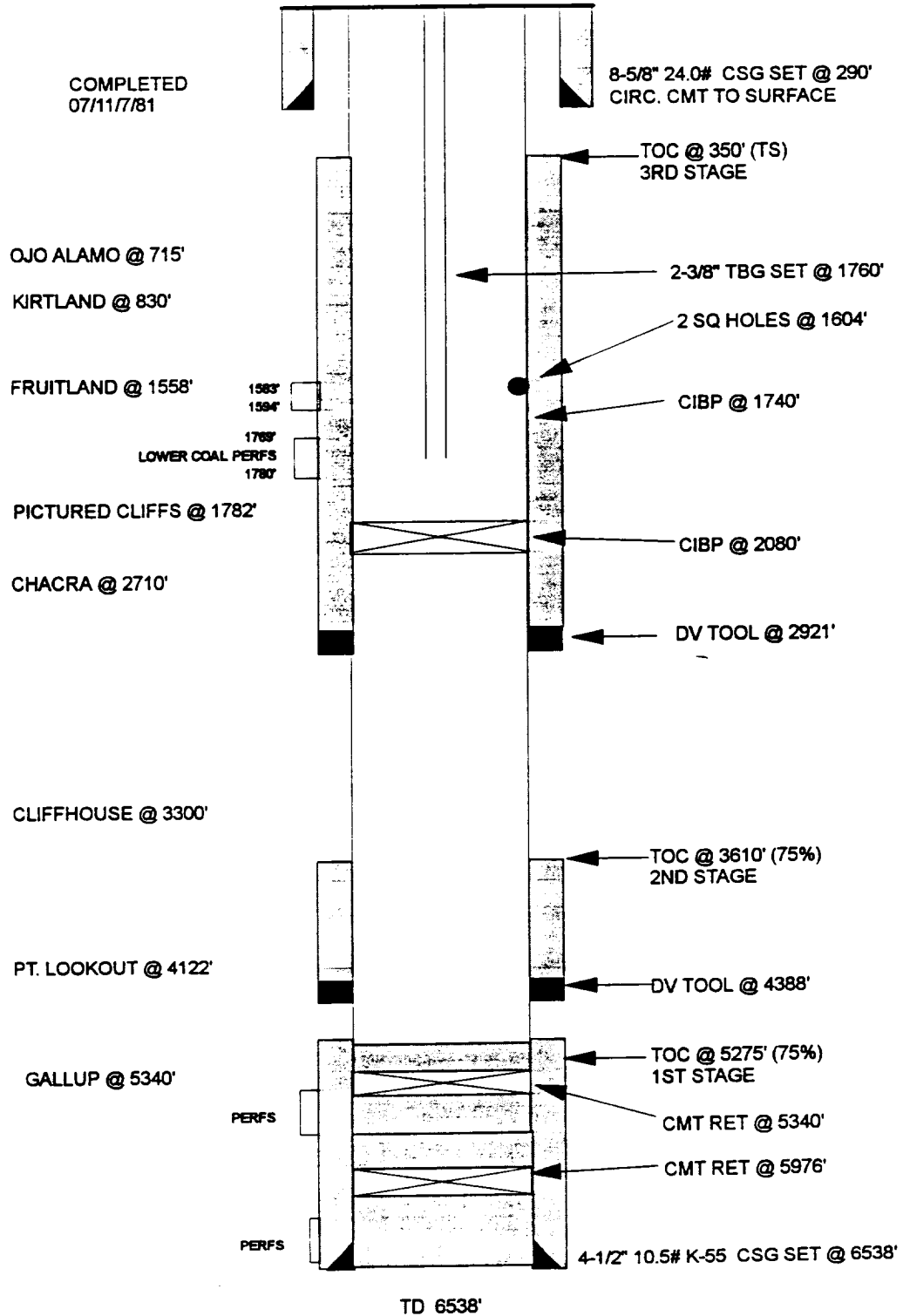


# ANGEL PEAK B # 31

PROPOSED

BASIN FRUITLAND COAL

UNIT C, SEC 25, T28N, R11W, SAN JUAN COUNTY, NM



Angel Peak B # 31  
Recommend Completion Procedure  
Unit C Section 25 T28N R11W

1. Test rig anchors and repair if necessary. Install 1-400 bbl frac tank on location and fill with 2% KCl water. Filter all water to 25 microns.
2. MOL and RU. Comply to all NMOC, BLM and MOI rules & regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU relief line.
3. TIH w/ 3-7/8" bit and 4-1/2" 10.5# casing scraper on 2-3/8" tbg and clean out to 1740'. DO CIBP set @ 1740'. CO & flow test lower coal for 48 hrs. Contact production engineering with results to determine if "Lower Coal " will be fracture treated. TOOH w/ bit and csg scraper.

**\*\*\*LOWER COAL\*\*\***

4. TIH w/ 2-7/8" 6.4# 10 RD NU frac string and set fullbore pkr @ 1650'. Load backside w/ 2% KCl water.
5. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal according to attached schedule w/ 70Q foam at 20 BPM with 50,000 lbs of 20/40 mesh Arizona sand. Flush with 8 bbls gel. Estimated treating pressure is 2100 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
6. SI well for 3 hours for gel break.
7. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
8. Re-fill 400 bbl frac tank with 2% KCl water and filter to 25 microns.
9. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ 2-3/8" tbg and csg scraper and CO hole to 1700'. TOOH.

**\*\*\*UPPER COAL\*\*\***

10. TIH w/ 2-3/8" tbg and set 4-1/2" RBP @ 1550'. TOOH. RU tree saver. PT csg to 3000 psi. RD tree saver.
11. TIH w/ tbg and retrieving head and release BP set @ 1550'. RIH and reset BP @ 1650'. TOOH. TIH w/ tbg pkr and set @ 1640'. PT BP to 3000 psi surface pressure.

Angel Peak B # 31  
Recommend Completion Procedure  
Unit C Section 25 T28N R11W  
Page 2

12. Release pkr and reset @ 1575'. Open bradenhead and establish injection rate into perfs @ 1604'. If no returns are seen @ surface and pressure reaches approx 1000 psi @ 3 bpm, cmt integrity above upper coal will be assumed adequate. If returns are seen or injection pressure is low, contact production engineering.
13. RU wireline and perf the following coal interval w/ 4" HSC w/ 9.8 gram charges @ 4 SPF (Correlate depths to the compensated neutron density log).

1583-1594'

Total: 11 Feet: 44 Holes.

14. RU 4-1/2" hydraulic tree saver. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 4000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 30 BPM with 50,000 lbs of 20/40 mesh Arizona sand. Flush with 22 bbls 2% KCl water. Estimated treating pressure is 1350 psi. **MAXIMUM PRESSURE IS LIMITED TO 3000 PSII** Monitor braden head pressure during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
15. PU tree saver and close blind rams on BOP. RD tree saver. SI well for 3 hours for gel break.
16. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
17. When well ceases to flow, TIH w/ 2-3/8" tbg and retrieving head and clean out upper zone until sand flow stops. Take Pitot gauge before retrieving BP. Release BP set @ 1650'. TOOH. TIH. Clean out lower coal to PBTD(2080') until sand flow stops. TOOH.
18. TIH w/ 2-3/8" tbg w/ standard seating nipple one jt off bottom and pump off plug on bottom and land tbg string @ 1760'.
19. ND BOP and NU independent wellhead. Pump off expendable check. Take final Pitot gauge. Rig down & release rig.

Approve: \_\_\_\_\_

J. A. Howieson

VENDORS:

Wireline:	Basin	327-5844
Fracturing:	BJ Services	327-6288
Tree Saver	WIT	599-5609

KAS:kas