

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
RLM

Sundry Notices and Reports on Wells

06 SEP 24 PM 1:29

1. Type of Well  
GAS

070 FARMINGTON, NM

5. Lease Number  
SF-078134  
6. If Indian, All. or  
Tribe Name  
7. Unit Agreement Name

2. Name of Operator  
**MERIDIAN OIL**

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

8. Well Name & Number  
Crandell #5  
9. API Well No.  
30-045-20548  
10. Field and Pool  
Blanco Pictured Cliffs  
11. County and State  
San Juan Co, NM

4. Location of Well, Footage, Sec., T, R, M  
1130' FSL, 1170' FWL, Sec.19, T-31-N, R-10-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 - Bradenhead repair	

13. Describe Proposed or Completed Operations

It is intended to repair the bradenhead of the subject well according to the attached procedure and wellbore diagram.

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OCT - 3 1996

OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (VGW5) Title Regulatory Administrator Date 9/23/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
CONDITION OF APPROVAL, if any:

APPROVED

SEP 25 1996

DISTRICT MANAGER

NMOCD

## WORKOVER PROCEDURE - BRADENHEAD REPAIR

Crandell #5  
Pictured Cliffs  
Sec. 19, T31N, R10W  
San Juan Co., New Mexico  
DPNO 10354

1. Comply to all NMOCD, BLM, and MOI regulations. Conduct daily safety meetings for all personnel on location. **Notify MOI Regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document the approval in Dims/Wims. As much time as possible to the pump time is needed for the Agency to be able to show up for the cement job.**
2. Test location rig anchors and repair if necessary. Prepare blow pit. MOL and RU daylight pulling unit. Install a 400 bbl frac tank and an atmospheric blow tank. NU blooie line to blow pit, and relief line to atmospheric tank. Fill frac tank with 1% KCl water.
3. Blow down tubing (122 jts of 1") to atmospheric tank. Control well with 1% KCl water as needed. ND wellhead and NU BOP's. Test and record operation of BOP's. Send wellhead to A-1 Machine or WSI for inspection.
4. RU wireline unit. Check for piston equipment or other obstructions. TIH, tag bottom. Record depth. TOOH w/ 1" tubing and LD. Visually inspect tubing, and replace joints that are in bad condition. Note any buildup of scale, and notify Operations Engineer.
5. PU 2-3/8" workstring and TIH w/3-7/8" bit and 4-1/2" casing scraper to below perfs. TOOH w/bit and scraper. PU 4-1/2" RBP and TIH. Set RBP at 2480'. Roll hole w/1% KCl water. Pressure test casing to 500 psig. Spot one sack of sand on top of RBP. TOOH.
6. RU wireline unit. Run CBL (with 1000 psig pressure) to determine TOC behind 4-1/2" casing. TOC @ 1460' per CBL. Contact Operations Engineer for design of squeeze cement.
7. Perforate 4 squeeze holes as close to TOC as possible. PU 4-1/2" fullbore packer and set 200' above squeeze holes. Establish rate into perforations with bradenhead valve open. Max pressure 1000 psig.
8. Mix and pump cement. Displace cement to packer. Squeeze cement into perforations. Hold squeeze pressure and WOC 12 hours (overnite).
9. TOH w/packer. TIH with 3-7/8" bit and drill out cement. Pressure test casing to 1000 psig. Test bradenhead valve for flow. Re-squeeze as necessary to hold pressure, or to stop bradenhead flow.
10. TIH with casing scraper to below squeeze holes. TOOH. TIH with retrieving tool and retrieve RBP. POOH and LD RBP and workstring.
11. TIH with production tubing (seating nipple one joint off bottom). CO to PBTD w/air. Blow well clean and gauge production. Land tubing at 2604'. ND BOP's and NU wellhead. Release rig.

Recommend: \_\_\_\_\_  
Operations Engineer

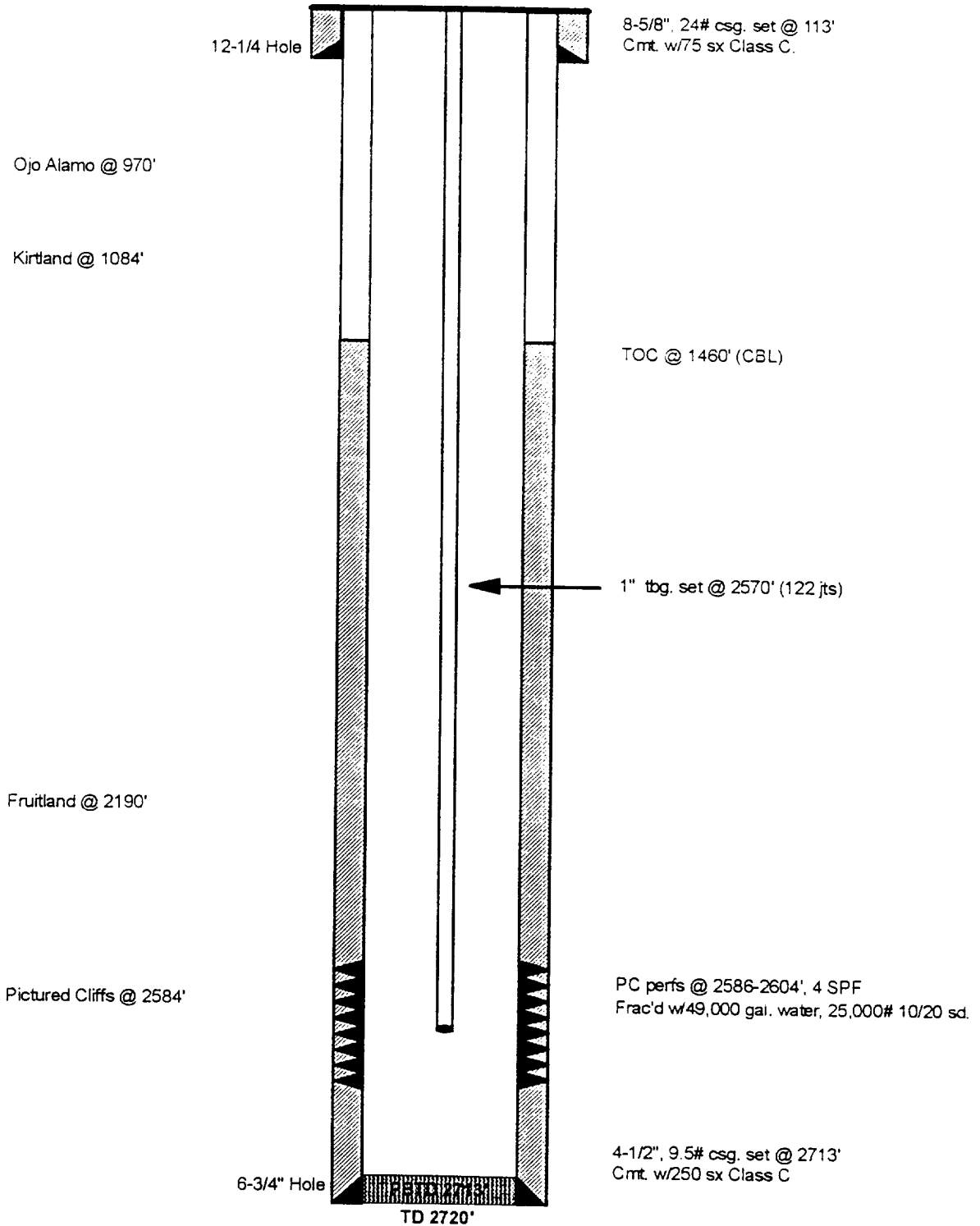
Approve: JCA 9/23  
Drilling Superintendent

Contacts: Operations Engineer                      Gaye White                      326-9875

# Crandell #5

Spud: 8/7/69  
Completed: 8/29/69  
Cathodic Protection installed: 8/94  
Elevation: 5912' (GR)  
5925' (KB)  
Logs: Ind., CBL

Current 9/12/96  
Pictured Cliffs  
DPNO: 10354  
1130' FSL, 1170' FWL  
Unit M, Sec. 19, T31N, R10W, San Juan County, NM  
Lat. / Long.: 36.879837/107.928314



## Initial Potential:

Initial AOF: 1872 Mcfd  
Initial SICP: 810 psi  
Last SICP: 490 psi

## Production History: Gas

Well CUM: 612 MMcf  
Last Prod. (7/96): 37 Mcf/d

## Ownership:

GW: 18.9505%  
NRI: 16.016454%  
SJBW: 56.8515%

## Pipeline:

WFS