

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  
1650' FNL, 895' FEL, Sec.25, T-27-N, R-9-W, NMPM

5. Lease Number  
I-149-IND-8473  
6. If Indian, All. or  
Tribe Name  
Navajo  
7. Unit Agreement Name  
8. Well Name & Number  
Turner Navajo #1  
9. API Well No.  
30-045-06255  
10. Field and Pool  
So Blanco Pictured Cliff  
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 checked="" type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Restimulate	

13. Describe Proposed or Completed Operations

It is intended to set and cement 3 1/2" casing, perforate and stimulate the subject well according to the attached procedure and wellbore diagram.

RECEIVED  
AUG 23 1995  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (PMP1) Title Regulatory Administrator Date 8/14/95

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

APPROVED

AUG 17 1995  
s/ Ken Townsend  
DISTRICT MANAGER

TURNER NAVAJO #1 PC  
Workover Procedure  
H 25 27 9  
San Juan County, N.M.  
Lat-Long: 36.548538 - 107.733597

1. Comply to all NMOC, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
2. TOH w/1" tbg & lay down. TIH w/4-3/4" bit on 2-3/8" work string & C.O. w/air/mist to new TD 2235'. Load hole w/500 gal 1% KCL water. TOH.
3. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2235'-1700'. Correlate log to open hole log.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2235' w/Omega type latching collar above 2' tbg sub w/notched collar on bottom. Cement w/200sx 50-50 Cl"B" POZ w/2% gel & 6-1/2#/sx kolite & 10% salt & 2% Cacl. (Calc @ 50% excess)(yield=1.44 cf/sx). After cmt, break & wash lines, run 2 wiper balls & Omega wiper latching plug, followed by 100 gal 7-1/2% HCL acid. Displace acid w/1%KCL water. Space out using tbg subs & install 3-1/2" csg in new csg spool. Install 5000 psi rental frac valve on 3-1/2" csg.
5. Pressure test csg to 6000 psi. MI Basin Perforating. Run GR-CCL & coorelate to neutron log. Perf PC w/about 18 holes over 80' of PC interval as per Production Engineering Dept. Perf using a 2-1/8" gun w/RTG-2125-402NT & run centralized. These 6.7 gr Owen charges make a 0.27" hole and have 11.18" of penetration.
6. Break down PC perfs down 3-1/2" csg w/2000 gal 15% GCL & 150% excess perf balls. Acidize @ 7 BPM w/max pressure = 6000 psi. Run junk basket to retrieve balls.
7. Spot & fill 2-400 bbl. frac tanks w/2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 355 bbls.
8. Frac PC down 3-1/2" csg w/49,000 gals. of 70 quality foam using 30# gel as the base fluid & 80,000# 20/40 Arizona sand. Pump at 40 BPM. Monitor bottomhole & surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 3500 psi. Treat per the folowing schedule:

<b><u>Stage</u></b>	<b><u>Foam Vol. (Gals.)</u></b>	<b><u>Gel Vol. (Gals.)</u></b>	<b><u>Sand Vol. (lbs.)</u></b>
Pad	14,000	4,200	---
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	5,000	1,500	20,000
Flush	( 748)	(225)	0
Totals	49,000	14,700	80,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- \* 30# J-48 (Guar Gel mix in full tank - 16,000 gal)
- \* 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- \* 1.0# GVW-3 (Enzyme Breaker mix on fly)

TURNER NAVAJO #1 PC - CEMENT 3-1/2" CSG, PERF PC. & FRAC

- \* 1.0# GVW-3 (Enzyme Breaker mix on fly)
- \* 1.0# B - 5 (Breaker mix on fly)
- \* 5.0 gal Fracfoam I (Foamer mix on fly)
- \* 0.38# FracCide 20 (Bacteriacide mix on full tank)

9. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr. or less if sand is observed. **Take pitot gauges when possible.**
10. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 2230'. Monitor gas & water returns & **take pitot gauges when possible.**
11. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2230'-1700'.
12. TIH w/1-1/4" IJ tbg w/standard seating nipple one joint off bottom & again cleanout to 2230'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2100' KB. **Take final water & gas samples & rates.**
13. ND BOP & NU wellhead & tree. Rig down & release rig.

Approve: AJB.  
Drilling Superintendent

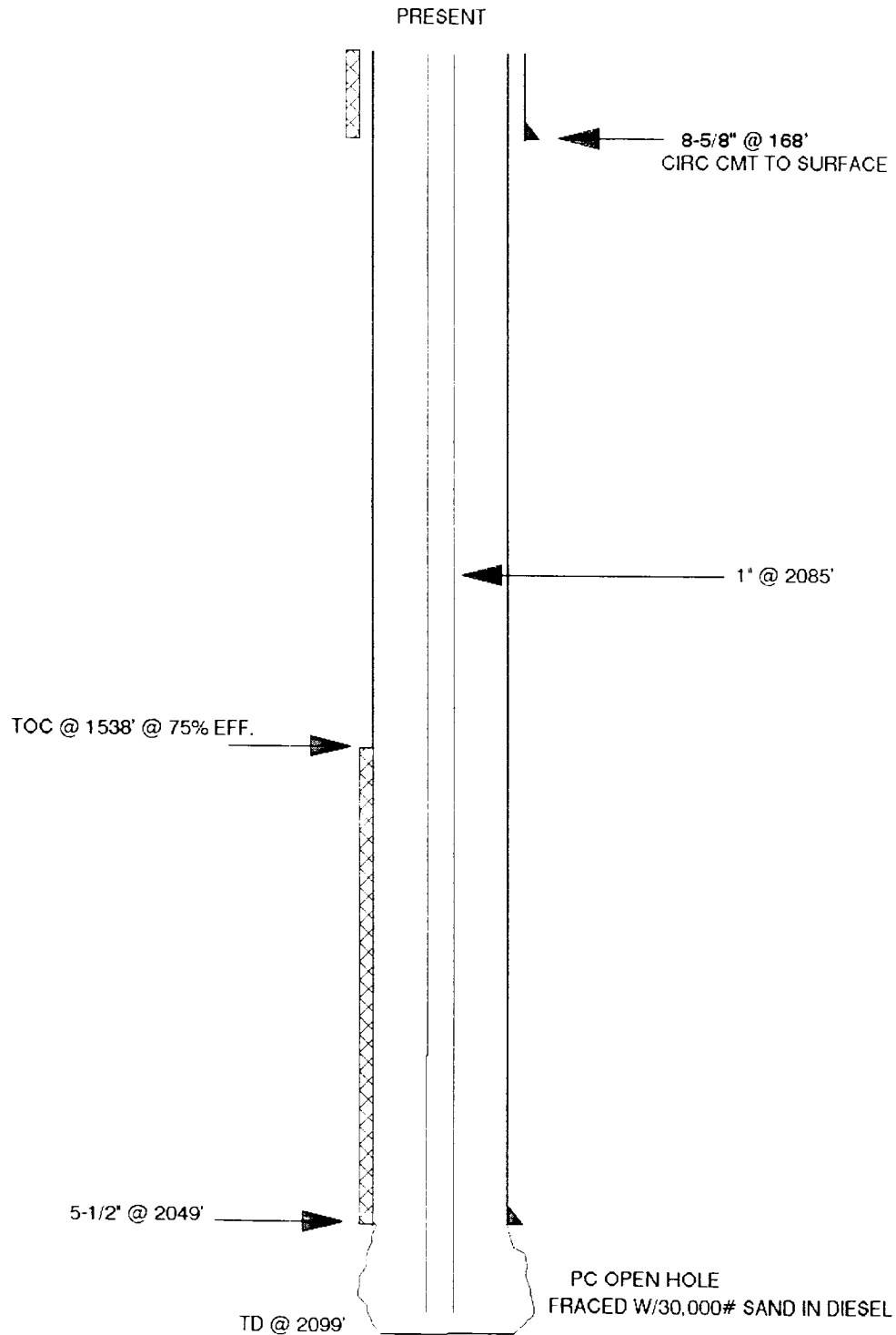
VENDORS:

Logging:	Blue Jet	325-5584
Perfing	Basin	327-5244
Fracturing:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133
Csg Equip:	Howco	325-3575
Cmt	Howco	325-3575

PMP

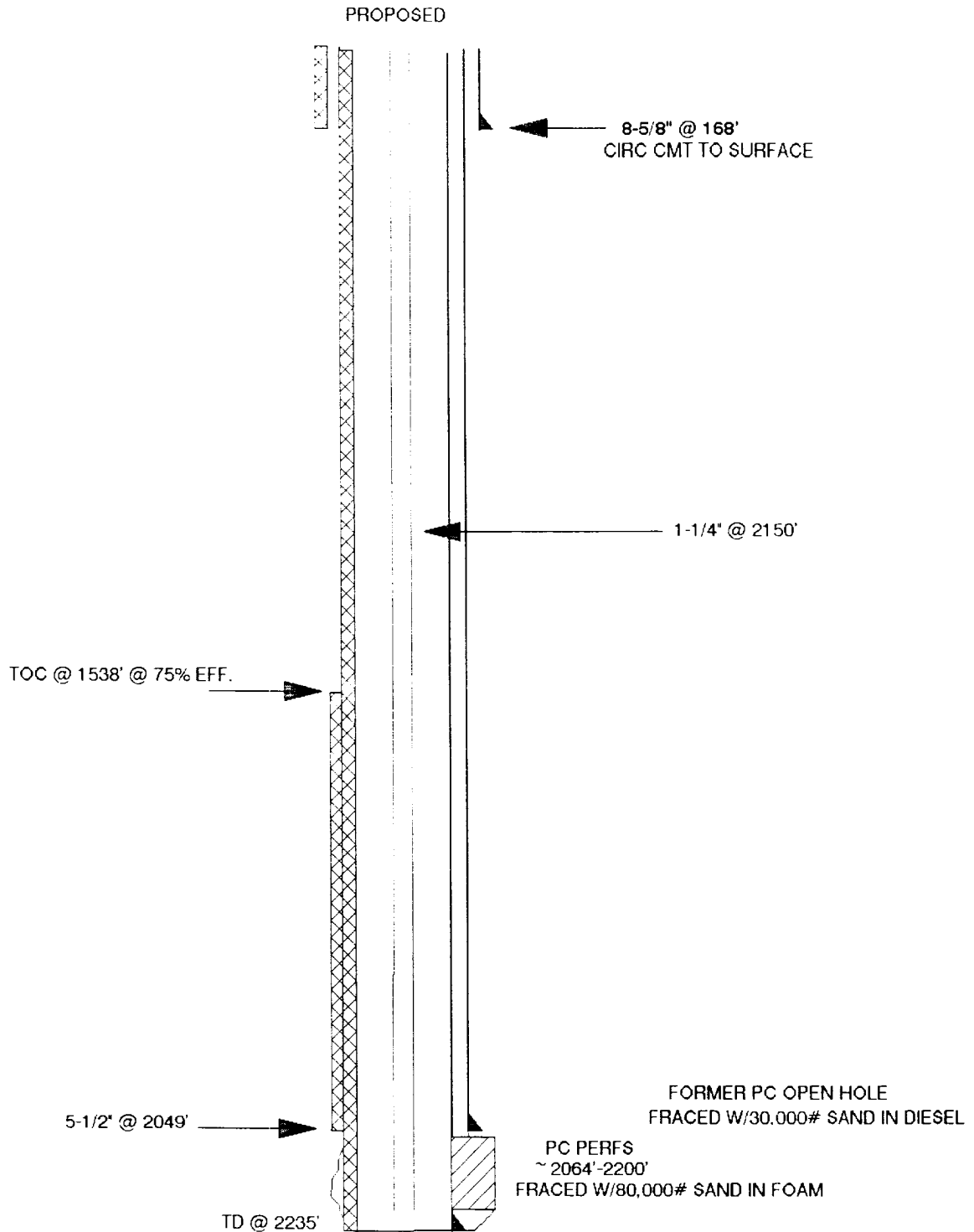
# TURNER NAVAJO #1 PC

UNIT H SECTION 25 T27N R9W  
SAN JUAN COUNTY, NEW MEXICO



# TURNER NAVAJO #1 PC

UNIT H SECTION 25 T27N R9W  
SAN JUAN COUNTY, NEW MEXICO



**Pertinent Data Sheet - TURNER NAVAJO #1 PC**

**Location:** 1650' FNL & 8950' FEL, Unit H, Section 25, T27N, R09W, San Juan County, New Mexico

**Field:** So. Blanco PC

**Elevation:** 6113' GL  
7' KB

**TD:** 2099'

**PBTD:** 2099'

**Completed:** 7-13-56 **Spud Date:** 5-24-56

**DP #:** 49596A

**Lease:** Ind: I-149-Ind. 8473

**GWl:** 100%

**NRI:** 87.50%

**Prop#:** 012661200

**Initial Potential:** Initial Potential = 3984 MCF/D, SICP=689 psi

**Casing Record:**

<b><u>Hole Size</u></b>	<b><u>Csg Size</u></b>	<b><u>Wt. &amp; Grade</u></b>	<b><u>Depth Set</u></b>	<b><u>Cement</u></b>	<b><u>Cement (Top)</u></b>
12-1/4"	8-5/8"	24# J-55	168'	130 sx.	Circ Cmt
e7-7/8"	5-1/2"	14,15.5# J-55	2049'	100 sx.	1538' @ 75% Eff.

**Tubing Record:**

<b><u>Tbg. Size</u></b>	<b><u>Wt. &amp; Grade</u></b>	<b><u>Depth Set</u></b>
1"	N/A	2085'

**Formation Tops:**

Ojo Alamo:	1243'
Kirtland Shale:	1295'
Fruitland:	1834'
Pictured Cliffs:	2064'

**Logging Record:** GRN ('56)

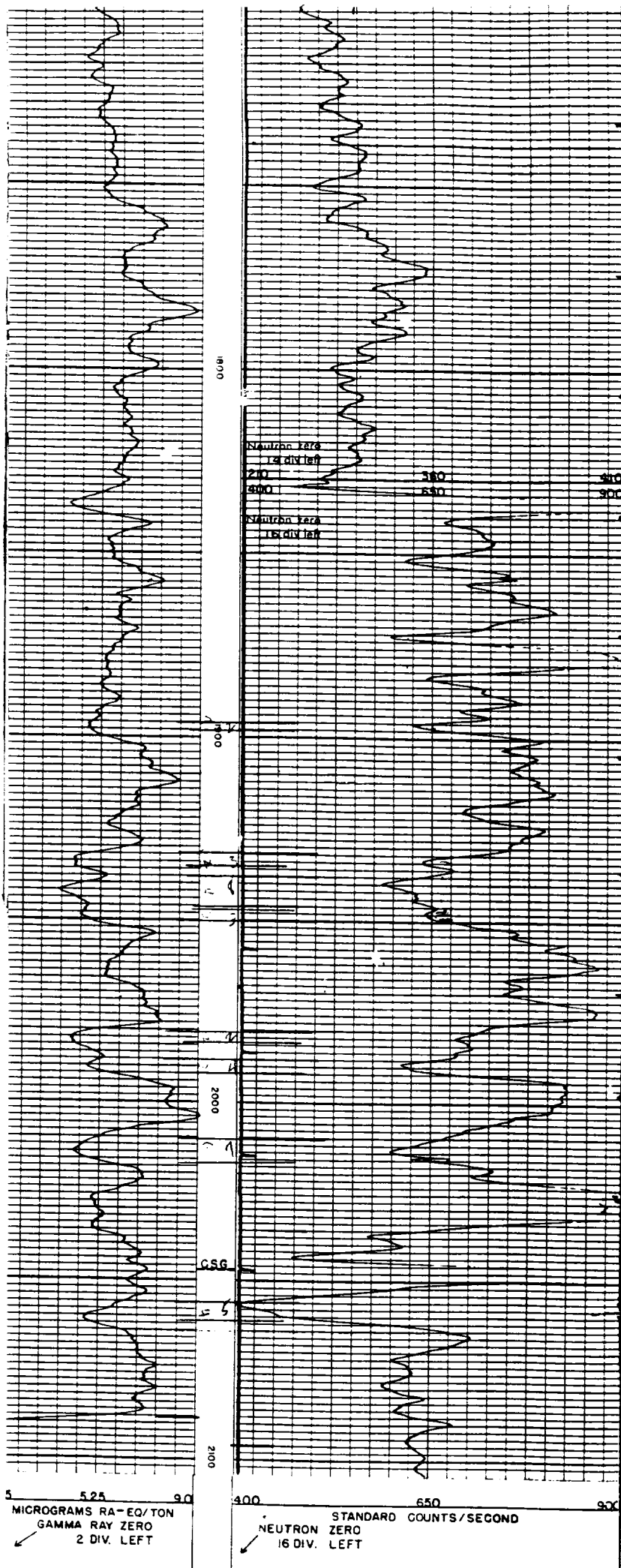
**Stimulation:** Fraced open hole w/30,000# sand in diesel.

**Workover History:** NONE

**Production history:** PC 1st delivered 1-31-57. Current PC capacity is 15 MCF/D. PC cum is 1634 MMCF..

**Pipeline:** EPNG

TURNER  
NAVATO #1 PC  
H 25 27 9



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10-10-95 MIRU. ND WH. NU BOP. TOOH w/93 jts 1" tbg. SDON.  
10-11-95 TIH, tag fill @ 2091'. Drill new hole @ 2099-2266'. Blow well clean. TOOH. SDON.  
10-12-95 Pump 15 bbl 1% Kcl wtr. TOOH. TIH w/RBP, set @ 640'. Load hole, PT RBP to 500 psi, OK. TOOH. ND BOP. Weld nipple on 5 1/2" csg. NU BOP. Retrieve RBP. RU, ran logs. RD. TIH w/69 jts 3 1/2" csg, set @ 2242'. Pump 20 bbl gel wtr ahead. Cmdt w/200 sx Class "B" 50/50 poz w/2% gel, 6.5 pps Gilsonite, 10% salt, 2% calcium chloride 30 bbl cmt behind csg & 2000' inside csg.  
10-13-95 TIH, tag cmt @ 108'. Mill on omega plug.  
10-14-95 Mill & drill cmt @ 108-720'.  
10-15-95 Mill & drill cmt @ 720-2235'. Circ hole clean. TOOH.  
10-16-95 RU, ran CBL @ 0-2234', TOC @ 502'. PT 3 1/2" tbg to 2500 psi, OK. TIH, spot 200 gal acid. PT csg to 600 psi, OK. SDON.  
10-17-95 Perf Pictured Cliffs @ 2054-2222' w/17 holes total. Acidize w/1800 gal 15% HCA. Frac Pictured Cliffs w/80,000# 20/40 Arizona sd, 391 bbl 30# linear gel, 840,600 SCF N2. SI for gel break. CO after frac.

Continued on back

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

Signed [Signature] Title Regulatory Administrator Date 10/24/95

(This space for Federal or State Office use)

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

CONDITION OF APPROVAL, if any:

**ACCEPTED FOR RECORD**

OCT 30 1995

FARMINGTON DISTRICT OFFICE  
BY [Signature]

NMOCD

10-18-95 Blow well & CO.  
10-19-95 Blow well & CO. TOOH. RU, ran after frac log. Blow well & CO. SDON.  
10-20-95 Blow well & CO. TOOH. TIH w/70 jts 1 1/4" tbg, landed @ 2111'. ND BOP. NU WH.  
RD. Rig released.