

Location: 800' FSL, 800' FWL, Section 13, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Pictured Cliffs

Elevation: 5850' GL TD: 2629'

Completed: 11/9/70

Initial Potential: 2,105 MCF/D

Casing Record:

<u>Hole Dia</u>	<u>Csg Size</u>	<u>WT &amp; Grade</u>	<u>Depth</u>	<u>Set Cement</u>	<u>Top/Cmt</u>
12 1/4"	8 5/8"	24.0#	109'	260 sxs	Surface*
6 3/4"	4.5"	9.5#	2622' GL	350 sxs	1890' CBL

\* Cement problem had to use 1" outside 8 5/8" and 100 sxs to get cmt to surface.

Tubing Record: 120 jts of 1" line pipe. Set at 2528'.

Formation Tops:

Ojo Alamo	925'
Kirtland	990'
Fruitland	2098'
Pic. Cliff	2525'

Logging Record: GR,IES,CBL

Completion Summary:

PERF 2528'-2542' W/4 SPF. FRAC W/ 30,240 gals of water.

Workover Summary:

12/31/87: Circ down bradenhead w/5 bbls of water, sqz 125 sxs class B cmt at 2.5 BPM. Displaced cement an est 82' down bradenhead. This repaired surface leak 6' from wellhead.

Production Summary:

Initial Deliverability -	214 MCF/D
Latest Deliverability -	35 MCF/D
Cumulative Production -	472.4 MMCF

Reserve Summary: Pictured Cliffs

Booked: Ultimate Recovery: 921.9 MMCF Remaining: 449.5 MMCF

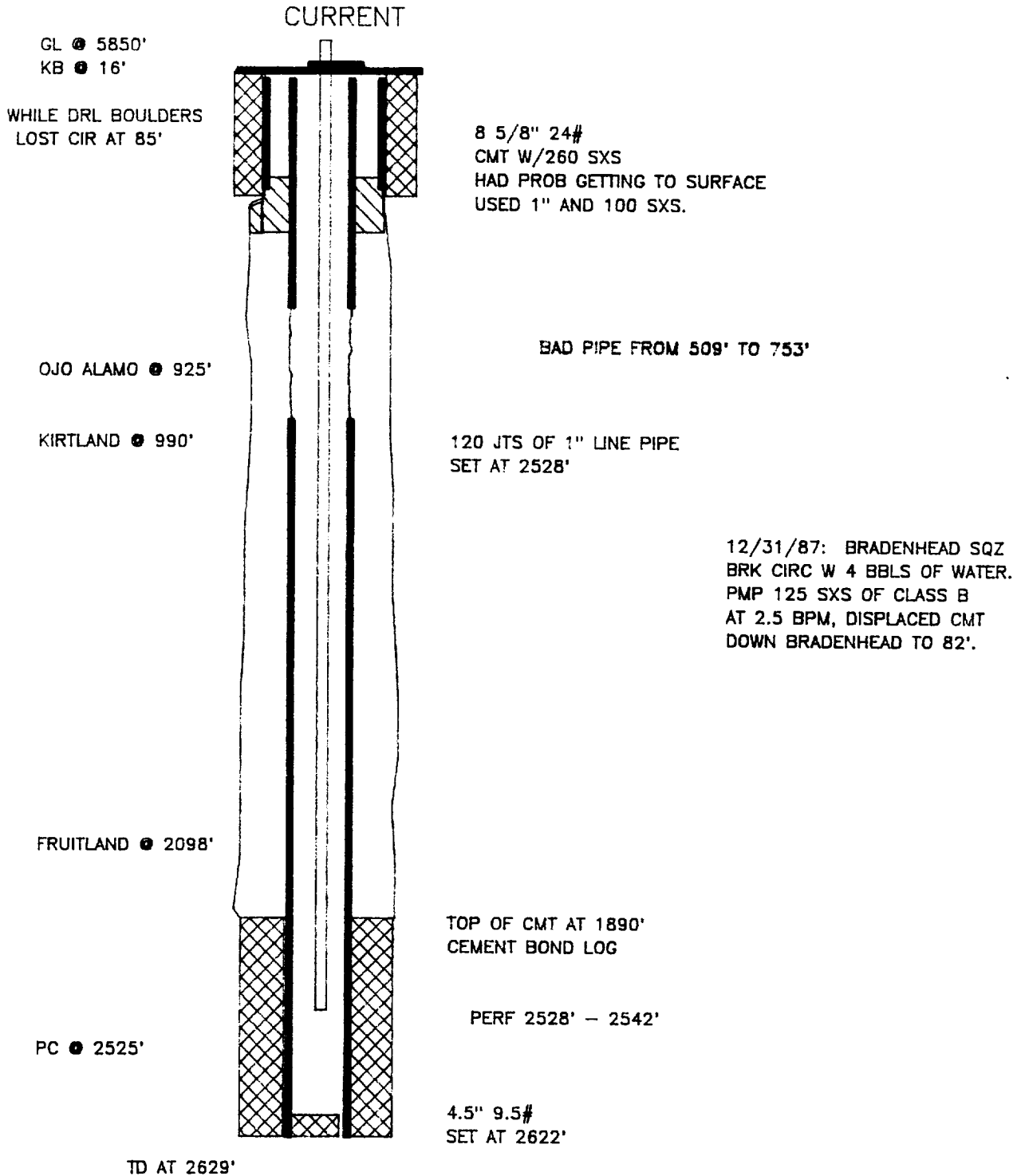
Based on P/Z and Decline Curve Analysis: Remaining Reserves = 154.5 MMCF

Gas Transporter: Southern Union Gathering Co.

Oil Transporter: MOI

# RANDLEMAN No. 2

## WELLBORE DIAGRAM

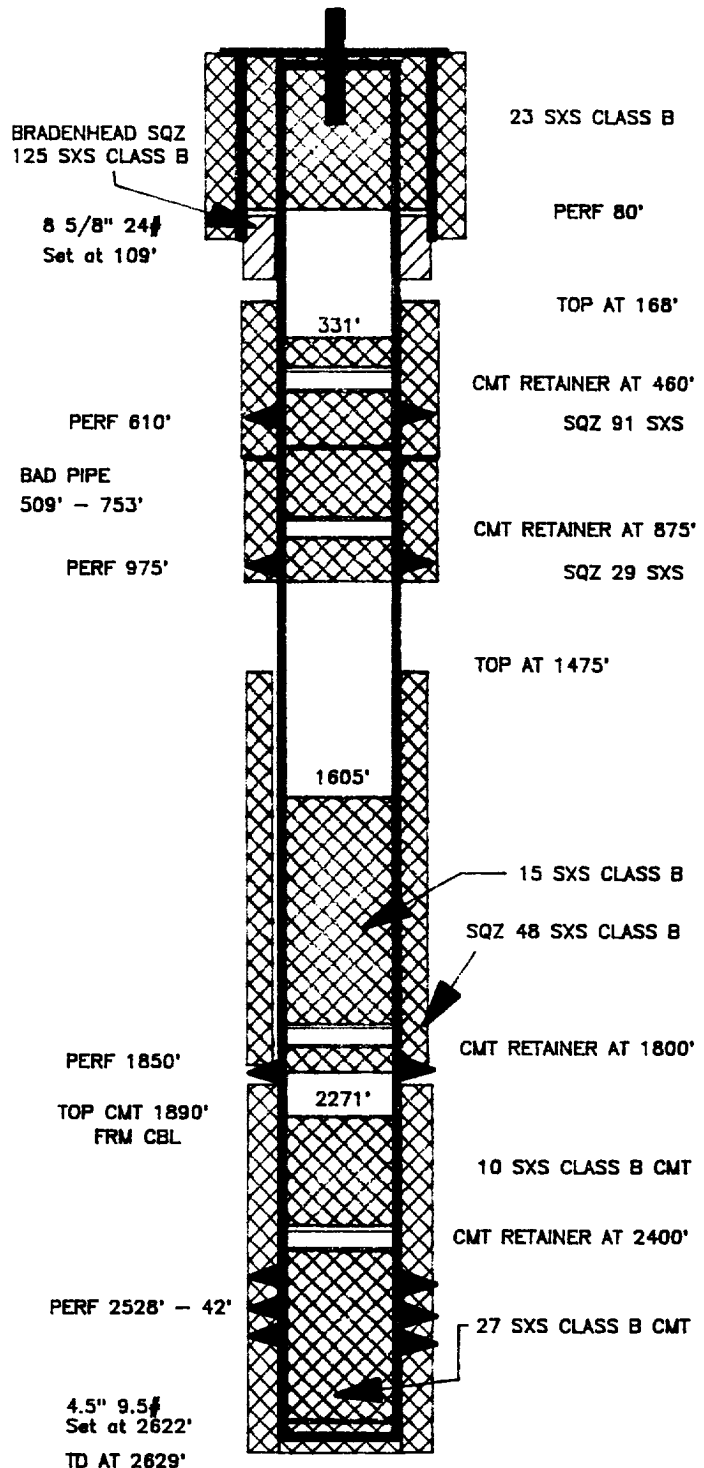


11/3/89

# **PLUG & ABANDONMENT PROCEDURE RANDLEMAN No. 2**

1. Notify the NMOCD before starting P&A operations.
2. Release packer at  $\pm 753'$ . TIH and retrieve RBP at  $\pm 2175'$ . Kill well as necessary w/water. TOOH and laydown RBP.
3. PU cement retainer, TIH and set retainer at  $\pm 2400'$ , pull up to test position and test tubing to 1000-psi. Sting through retainer.
4. RU cementers, sqz 27 sxs (31.86 cf) of class B cmt thru tubing to cover Pictured Cliffs perforations. Pull out of retainer and spot 10 sxs (11.8 cf) on top of retainer (covers from 2400' to 2271').
5. PU to 2200' and reverse out excess cement. Attempt to circulate hole with 9.1 ppg 50 sec/qt viscosity mud. TOOH laying down portion of work string.
6. RU WL unit, perf 2 sqz holes (0.5" dia, 180° phase) at  $\pm 1850'$ . RD WL unit.
7. PU cement retainer, TIH and set retainer at  $\pm 1800'$ , pull up to test position and test tubing to 1000-psi. Sting through retainer.
8. RU cementers, sqz 48 sxs (56.64 cf) of class B cmt. This will cover 1850' to 1475' between the  $4\frac{1}{2}$ " and  $6\frac{1}{4}$ " hole. Pull out of retainer and spot 15 sxs (17.7 cf) on top of retainer (covers from 1800' to 1605').
9. PU to 1500' reverse out excess cement. TOOH laying down portion of work string.
10. RU WL unit, perf 2 sqz holes (0.5" dia, 180° phase) at  $\pm 975'$ . RD WL unit.

**P & A DIAGRAM**



11. PU cement retainer, TIH and set retainer at  $\pm 875'$ , pull up to test position and test tubing to 1000-psi. Sting through retainer.
12. RU cementers, sqz 29 sxs (34.23 cf) of class B cmt. This will cover 975' to 760' between the  $4\frac{1}{2}$  and  $6\frac{1}{4}$  hole. Pull out of retainer and spot 10 sxs (11.8 cf) on top of retainer (covers from 875' to 746').
13. PU to 500' reverse out excess cement. Attempt to pump into holes at 509' and 753'. Monitor bradenhead and determine if communication exist between bradenhead and holes. TOOHL laying down portion of work string.  
  
\* If communication exist perforate sqz holes at 8 5/8" shoe.
14. RU WL unit, perf 2 sqz holes (0.5" dia, 180° phase) at  $\pm 610'$ . RD WL unit.
15. PU cement retainer, TIH and set retainer at  $\pm 460'$ , pull up to test position and test tubing to 1000-psi. Sting through retainer.
16. RU cementers, sqz 91 sxs (107.64 cf) of class B cmt. This will cover 753' to 168' between the  $4\frac{1}{2}$  and  $6\frac{1}{4}$  hole. Pull out of retainer and spot 10 sxs (11.8 cf) on top of retainer (covers from 460' to 331'). PU to 300' reverse out excess cement. TOOHL laying down work string.
17. RU WL unit, perf 2 sqz holes (0.5" dia, 180° phase) at  $\pm 80'$ . RD WL unit. RU cementers to  $4\frac{1}{2}"$  csg circulate cmt through bradenhead, this should require  $\pm 23$  sxs (27.14 cf) or  $\pm 32$  sxs (36.87 cf) if sqz holes are at 8 5/8" shoe.
18. Cut off well head and install P&A marker. RD and release rig.
19. Clean up location and reseed as required by NMOCD.

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

Ron Headrick

**MATERIALS REQUIRED:**

- A. 4  $4\frac{1}{2}$  9.5# CMT RETAINERS.
- B.  $\pm 272$  SXS OF CLASS B NEAT CEMENT.