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MCA Unit No. 148

Plug and Abandon

Justification:

Funds of \$16,675 (\$10,300 Conoco net) are requested to plug and abandon MCA Unit #148. Unsuccessful retrieval of junk in the open hole section has made production from the bottom zones impossible and hence limited production to 2 BOPD since 6/88. Future plans include drilling MCA #384 as a replacement to No. 148.

Well Data:

Location: 1980' FNL and 660'FWL, Section 27, T17S, R32E, Unit

Letter E

TD: 4140' PBTD: 3632' Elevation: 4008'

Top of Salt: 1015' Rotary drilled to 3775' Base of Salt: 2045' Cable tooled to 4034'

Casing:

12 1/2" O.D. csg. set @ 20' w/23 sx (Est TOC = surface) 5 1/2", 14#, J-55 set @ 3543' w/250 sx (Est TOC = 2500')

Capacities and Strengths:

	<u>*Collapse</u>	<u>*Burst</u>	<u>Capacity</u>
5 1/2", 14#, J-55	2184 psig	2989 psig	0.0244 bbls/ft
2 3/8", 4#, J-55	5033 psig	4739 psig	0.00405 bbls/ft

*70% safety factor included

OH shot from

3830'-3955' w/250 qts and 350 qts 3963'-4034' w/142 qts and 150 qts

Recommended Procedure:

Note:

- 1. Notify the NMOCD and BLM prior to commencing work.
- 2. All cement used shall be class "C" cement with 2% CaCl₂.
- 3. All mud used shall be 9.5 ppg.

1. MIRU.

- a. ND wellhead. NU BOP.
- b. POOH w/2 3/8" tbg.
- Abandon open hole from 3543' to 4140'.
 - a. RIH with cement retainer on tubing, set retainer at 3500'.
 - b. Pump 175 sx (35 bbls) of cement through retainer.
 - c. Sting out of retainer and dump 25 sx (5 bbl) of cement on top of retainer from 3295' to 3500'.
 - d. PU and circulate hole with 9.5 ppg mud. (85 bbls).
- 3. Cement intermediate plug.
 - Spot 5 bbls (25 sx) cement to form intermediate plug from 845' to 1050'.
- 4. Cement surface plug.
 - a. Pump 3 bbls (15 sx) cement inside $5 \frac{1}{2}$ " casing to form inner surface plug from surface to 150'.
 - b. POOH.
 - c. Pump 10 bbls (50 sx) cement down 12 1/2" 5 1/2" annular valve to form annular surface plug to 60'. (This well was previously perfed and squeezed at 65' w/832 sx.)
- 5. Cutting casing and cleaning location.
 - a. Cut casing string 3' below ground level.
 - b. Fill casing from cement plug to surface w/sand, cement or gravel.
 - c. Install an abandonment marker made from 4" pipe. Pipe must be at least 10' long and installed so at least 4' extends above the ground level.
 - d. Permanently inscribe the following on marker.

MCA Unit No. 148 Unit E, Section 27 T17S, R32E Lea County, New Mexico

Rig down pulling unit. Level and clean location. Send copy of well servicing report and final P&A wellbore sketch to Hobbs Division Office. f.

Summer Engineer	Date
Engineer	Date
Project Director	Date
Division Eng. Manager	Date
Production Superintendent	Date

JM/tk 610