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McCollum #2

Franciscan Lake Mesaverde 330' FSL and 990' FEL, Section 12, T-20-N, R-6-W McKinley Co., New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

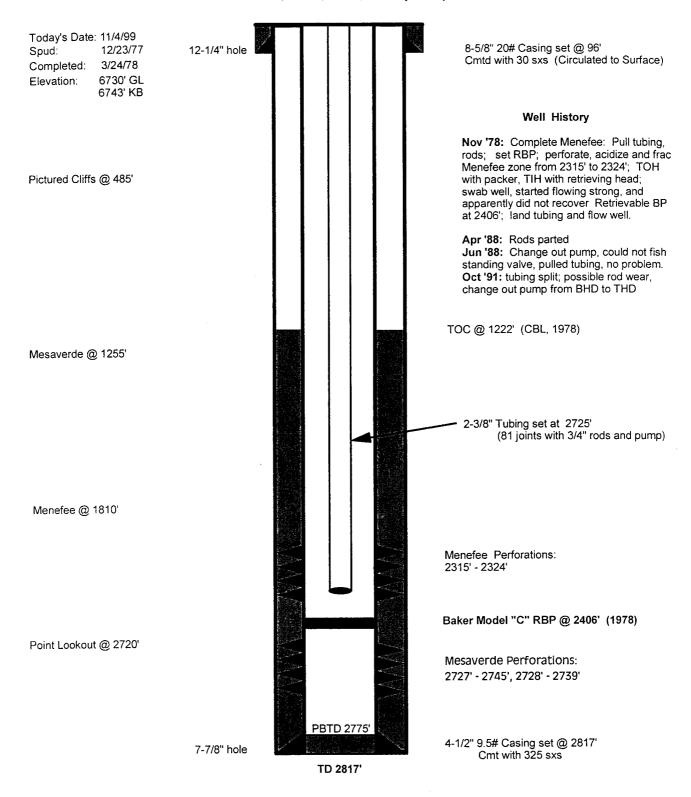
- 1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Merrion safety regulations. MOL and RU daylight pulling unit. NU relief line. Blow down well and kill with water as necessary.
- 2. POH and LD rods and pump. Hot oil tubing if necessary. ND wellhead and NU BOP,test. TOH, tally and visually inspect 2-3/8" tubing (2725'). If necessary LD 2-3/8" tubing and PU workstring.
- 3. Plug #1 (Mesaverde perforations, 2406' 1760'): TIH with open ended tubing workstring and tag RBP at 2406', or as deep as possible. Load casing with water and circulate clean. Mix 65 sacks Class B cement (long plug, 30% excess) to fill and cover the Mesaverde perforations. PUH to 1000' and WOC. TIH and tag cement. Pressure test casing to 500#. PUH to 1305'.
- 4. Plug #2 (Mesaverde top, 1305' 1205'): Perforate 3 squeeze holes at 1305'. Establish rate into squeeze holes if casing tested. Set 4-1/2" cement retainer at 1255'. Establish rate into squeeze holes. Mix 51 sxs Class B cement, squeeze 39 sxs outside casing and spot 12 sxs inside to cover Mesaverde top. POH with tubing.
- 5. Plug #3 (Pictured Cliffs top and Surface casing shoe, 535' Surface): Perforate 3 squeeze holes at 535'. Establish circulation out bradenhead valve. Mix and pump approximately 200 sxs Class B cement down 4-1/2" casing, circulate good cement out bradenhead valve. Shut in well and WOC.
- 6. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, Move off location, cut off anchors and restore location.

McCollum #2

Current

Franciscan Lake Mesaverde

SE Section 12, T-20-N, R-6-W, McKinley County, NM



McCollum #2

Proposed P&A

Franciscan Lake Mesaverde

SE Section 12, T-20-N, R-6-W, McKinley County, NM

Today's Date: 11/4/99 Spud: 12/23/77 Completed: 3/24/78

Elevation:

6730' GL

6743' KB

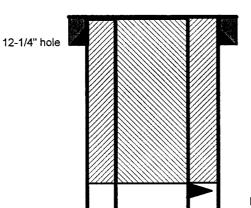
Pictured Cliffs @ 485'

Mesaverde @ 1255'

Menefee @ 1810'

Point Lookout @ 2720'

7-7/8" hole



PBTD 2775'

TD 2817'

8-5/8" 20# Casing set @ 96' Cmt with 30 sxs (Circulated to Surface)

> Plug #3 535' - Surface Cmt with 200 sxs Class B

Perforate @ 535'

TOC @ 1222' (CBL, 1978)

Plug #2 1305' - 1205' Cmt with 12 sxs Class B

Plug #1 2406' - 1760' Cmt with 65 sxs Class B, (long plug, 30% excess)

Menefee Perforations: 2315' - 2324'

Baker Model "C" RBP @ 2406' (1978)

Mesaverde Perforations: 2727' - 2745', 2728' - 2739'

4-1/2" 9.5# Casing set @ 2817' Cmt with 325 sxs