

POKER LAKE UNIT #57
RECOMMENDED DEEPENING AND RECOMPLETION PROCEDURE
EDDY COUNTY, NEW MEXICO
March 27, 1995

Job Summary: Pull out of hole with rods, 2-7/8" tubing and TAC. Drill cement retainers and cement to 6370' (7" casing seat). Drill cement and junked retainer in open hole from 6370' to 8325'. Deepen well to 8425'. Run and cement 4-1/2" liner and complete well.

1. Prepare location. Dig and line working pit. Test deadmen.
2. MIRU Pulling Unit. POH w/ rods (fish parted rods and pump). LD rods and pump.
3. Install 7-1/16" 3000 psi drilling spool and double ram BOPE. Release Baker "B-2" TAC at 6025'. POH standing back 2-7/8", J-55, 6.5#/ft tbg and LD TAC and SN.
4. RIH with 6-1/8" bit, and (8) 4-1/4" drill collars on 2-7/8" AOH drill string.
5. Using air, foaming chemicals and 24 hour operations, drill out cement retainer at 6103' and drill cement 6104'-6135'. Drill Baker K-1 cement retainer at 6270' and cement to 6370' (7" casing seat). Continue cleaning out open hole, drilling out junked Baker "K-1" retainer previously pushed down hole. Clean out open hole to 8325' (cement plugs at 7224'-7401' and 7725'-8325'). Deepen well to 8425'. Circulate hole clean with fresh water. Release air and foam equipment. POOH standing back drill string.
6. RU Schlumberger with lubricator. RIH with GR-sidewall coring tool. Cut sidewall cores from 8206-8255' as directed. POH and RD Schlumberger. RIH with bit to TD. Circulate and condition hole in preparation to set 4-1/2" liner. Await decision from Midland to proceed with liner installation pending core analysis.
7. POH w/ drill string. RIH with guide shoe, two shoe joints, and landing collar on $\pm 2500'$ of 4-1/2", 11.6#, N-80 LT&C liner (hydro-test liner to 6200 psi prior to delivery on location) and 4-1/2" x 7" Lindsey liner hanger. Centralize above the shoe and across potential pay zones (6350-6700', 7100-7300', 7750-7850' and 8150-8300'). Centralize every other joint above pay zones to liner hanger.
8. Set liner hanger with top of liner at $\pm 5925'$. ($\pm 445'$ overlap of 7" casing and $\pm 100'$ overlap of top open perfs at 6027'). Release from liner then sting back into liner hanger. RU Western Co. to cement liner. Pump 125 bbls of nitrified mud, 12 bbls of mud, 12 bbls of WMW-1 spacer ahead of cement, then cement liner with 270 sxs Class C (Mod) + 11.0#/sx CSE + 1% CF-20 + 0.1% TF-Plus 500 at 13.5 ppg, 1.48 yield and 3:30 PT.
9. POH with laying down drill pipe and setting tool. Release drill pipe and return to daylight operations only after drill pipe is released. RIH with 6-1/8" bit and 4-1/4" collars on 2-7/8" tubing. Drill cement and dress off liner top. Pressure test top of liner and casing to 3000 psi for 30 minutes (if liner leaks call Division office). POH with bit.