

WELL PROGRAM
COOK FED. COM. #1
1980' FNL & 660' FEL
Sec 10, T16S, R27E
EDDY COUNTY, NEW MEXICO
August 16, 1979

RECEIVED

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O. C. C.
ARTESIA, OFFICE

DIRECTIONS: The well is approximately 10 miles east-southeast of Lake Arthur, New Mexico. Travel from Lake Arthur 3.4 miles east and south on Highway 507; 5.0 miles east on improved county road; then 2.0 miles south on caliche road. Go 3/8 mile west, then south 3/4 mile to Wells Federal #1. Continue west for 3/8 mile to location. Moranco Rig #5 will be on the well.

Projected TD 8850'
Formation Morrow

A. CASING & CEMENTING PROGRAM

1. Surface Casing

Drill a 17 1/2" hole to approximately 350'. Run deviation survey at 100', 200', and 350'. Limit deviation to 1°. Run 13 3/8" casing with guide shoe and insert float (one joint up) to total depth. Thread lock and tack weld bottom two joints. Run centralizer in the middle of joints 1, 3, and 5. Notify NMOCD, then cement with 400 sacks Class "C" + 2% CaCl and set pipe on bottom. Cement must circulate. Dump readi-mix down backside if necessary. WOC 4 hours and commence cut off and nipple up. Install 13 3/8" slip-on x 12" API 3000 psi bradenhead with 2" API 3000 psi ball valve. Nipple up 10" API 3000 psi WP double BOP with pipe rams (bottom) and blind rams. Also nipple up 10" API 3000 psi WP hydril. WOC 18 hours. Test casing to 600 psi for 30 minutes.

Casing Description

Interval	Length	Description	Burst	Collapse	Tension	Torque
0-350'	350'	13 3/8", 48#, H40, STC	1730	770	322,000	3220

2. Intermediate Casing

Drill an 11" hole to approximately 1600' (into top of San Andres). Run deviation surveys every 300'. Limit deviation to 1°. Run 8 5/8" casing with guide shoe and float collar (2 joints up) to total depth. Thread lock and tack weld all connections through the top of insert float. Run centralizer in the middle of joints 1, 3, and 5. Notify the NMOCD, then cement with 200 sacks Thick-set cement. Follow with 650 sacks light weight + 5# gilsonite + 1/4# flocele + 2% CaCl. Tail in with 200 sacks Class "C" + 2% CaCl. Cement must circulate. Pump down backside through 1" pipe with Class "C" + 2% CaCl if necessary. WOC 6-8 hours, nipple down, and set slips with full weight of 8 5/8" casing. Cut off casing and install 12" API 3000 psi x 10" API 3000 psi casing spool with 2" API 3000 psi gate valve. Nipple up 10" API 3000 psi WP double BOP and hydril, same as previous. Hook up 3000 psi choke manifold. Test BOP stack and choke manifold to 1500 psi, hydril to 1000 psi. WOC 18 hours. Test casing to 1000 psi for 30 minutes with a maximum of 9.0#/gal fluid in the hole.