

WELL HISTORY ABSTRACT

July 26, 1986: Bob Fix Excavating clears N-2 location, digs mud pits, and grades Forest Service Road 550.

August 2, 1986: Tonto moves drill rig onto N-2 site.

August 8-14, 1986: Tonto rigs up, digs cellar and pours cement foundation for cellar, hauls water, mixes mud.

August 15-19, 1986: Spud 7-7/8" hole, drill from 0-118', lost circulation at 108', high torque and caving problems, unable to regain circulation, lost hole below 115'. POH. Tonto rigs down and moves off of location.

August 21-27, 1986: Energy Exploration Drilling arrives on location, rigs up, mixes mud, hauls water. Pick up 10" tricone, open 7-7/8" hole down to 16'. POH. Ran 16' of 8½" PVC pipe as surface conductor/flowline and cemented with 4 sacks cement. CIP 02:00 8/22. WOC 8 hours. RIH with 7-7/8" tricone, tagged cave at 80'. Drilled 7-7/8" hole 80' to 138' with mud, losing circulation at 122' and 133'. POH. RIH with 7-7/8" air hammer, drilled 138' to 160' with air and foam losing circulation between 150' and 155'. POH. RIH with 7-7/8" tricone, drilled 160' to 280' with foam, losing circulation between 250' and 255'. POH. RIH with 7-7/8" air hammer and drilled 280' to 475' on air and foam with good returns. POH. Pick up and run 475' of A-53 4½" casing and cement with 275 sacks cement. CIP 19:00 8/26. Energy Exploration Drilling rigs down and moves off of location. WOC.

August 28-Sept. 3, 1986: Tonto moves back onto location, rigs up, nipples up BOP and tests unsuccessfully. Gates won't close, new parts ordered from H&H and installed. Attempt BOP test, welds on blowdown and kill lines leak. Pick up 3 7/8" tricone and RIH. Tag cement at 12'. Drill cement 12' to 461'. POH. Re-weld blowdown and kill lines. Obtained successful BOP test 11:00 9/3. RIH with 3 7/8" tricone, drill cement and junk 461' to 477'. POH and rig for coring.

Sept. 4-Oct. 20, 1986: RIH with HQ (3.79") core bit, reamer shell, core barrel and rods. Core 3.79" hole 477' to 580'. Lost circulation for good at 495'. POH to grease rods. RIH, core 580' to 599'. POH to retrieve stuck inner tube. RIH, core 599' to 1,193'. POH for bit and shell change. RIH, core 1,193' to 2,327'. POH for bit and shell change, test BOP. RIH, core from 2,327' to

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2,831'. POH for bit and shell change. Test BOP. RIH, core from 2,831' to 4,279'. POH for bit change, test BOP. RIH and core 4,279' to 4,387.5'. Condition hole for logging. POH, rig for Dresser-Atlas.

Oct. 21-22, 1986: Dresser-Atlas rigs up and runs induction, SP, density, neutron, gamma, sonic, caliper and temperature logs; rigs down and demobs.

Oct. 23-24, 1986: Tonto RIH with H rods to bottom, pumps approx. 7,200 gallons Shur-Gel abandonment mud, POOH laying down H-rods in 10's. Pick up and run 4,386' of 1.9" OD (1.5"ID) tubing, bullplugged, filled with water and hung from wellhead flange approx. 1' off bottom.

Oct. 25-31, 1986: Tonto secures well, rigs down and moves off site. Temp. log run 10/29 by Geotech Data, well head locked, cellar planked over, sumps backfilled. Well shut in for observation.

Graph attached

M. Woodruff/rs
11/10/86