

November 25, 1979 Moved in rig and equipment.

November 26, 1979 Spudded well at 9:30 a.m., November 26, 1979. Drilled 11" hole to 50', bit balled up. Pulled out of hole, ran 5-5/8" drag bit. Drilled 5-5/8" hole from 50' to 285'.

November 27, 1979 Drilled 5-5/8" hole from 285' to 320'. Opened 5-5/8" hole to 11" from 50' to 220'.

November 28, 1979 Opened 5-5/8" hole to 11" from 220' to 305'. Ran and landed 301' (16 joints) of 7", 23#, K-55, LT&C casing at 299'.

Cemented the 7" casing through the shoe at 299' with 215 sacks of Class "G" cement. Had good circulation throughout job with approximately 10 barrels of cement returns to surface.

Bumped plug on float collar under 500 psi.

November 29, 1979 Waited on cement 12 hours. Dug 7 foot deep cellar. Cut off the 7" casing 5-1/2' below surface. Installed 6" - 3000# casing head. Nippled up 6" - 3000# rams and Hydril.

November 30, 1979 Installed BOP. Tested to 500 psi for one (1) hour. Ran 6-1/4" bit, drilled out cement and 7" guide shoe at 299'.

Drilled 6-1/4" hole to 330'.

December 1, 1979 Drilled 6-1/4" hole from 330' to 1070'
and
December 2, 1979

December 3, 1979 Drilled 6-1/4" hole 1070'-1130'.

December 4, 1979 Drilled 6-1/4" hole 1130' to 1273'.

December 5, 1979 Drilled 6-1/4" hole 1273' to 1570'.

December 6, 1979 Drilled 6-1/4" hole 1570' to 1757'.

December 7, 1979 Drilled 6-1/4" hole 1757' to 1990'

December 8, 1979 Drilled 6-1/4" hole 1990' to 2180'.

December 9, 1979 Drilled 6-1/4" hole 2180'-2250'

December 10, 1979 Drilled 6-1/4" hole 2250'-2310', Crossed and mashed 5/8" drill line while spooling. Circulated.

December 11, 1979 Circulated while waiting on new drilling line. Down 12 hours. Replaced drilling line. Drilled 6-1/4" hole 2310'-2350'.

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- December 12, 1979 Drilled 6-1/4" hole 2350'-2470'. Sheaves on Crown blocks froze up at 12:00 p.m., December 12, 1979.
- Circulating while waiting on repairs.
- December 13, 1979 Circulated and waited for parts. Parts for Crown block arrived at 6:00 p.m. December 13, 1979. Repaired Crown block sheaves. Down a total of 18 hours. Drilled 6-1/4" hole 2470'-2510'. Unable to circulate. Pulled out of hole. Found bit plugged.
- December 14, 1979 Drilled 6-1/4" hole from 2510'-2557'. Lost partial circulation from 2525'-2537' and lost complete circulation at 2557'. Added lost circulation material and regained circulation and drilled 6-1/4" hole to 2565'.
- December 15, 1979 Drilled 6-1/4" hole to 2576', lost circulation. Pumped in 100 barrels mud with lost circulation material. Hole stood full. Drilled one (1) foot and fluid level dropped. Well started flowing while mixing lost circulation material.
- Flow increased to a 500 gallon/min rate in four (4) minutes. Shut well in and started building mud weight.
- December 16, 1979 Circulated bottoms up. Circulated well on 1" choke until drill pipe plugged and unable to circulate. Shut well in.
- Waited on wireline truck to shoot holes in drillpipe.
- December 17, 1979 Wireline truck arrived on location at 11:30 p.m. Ran temperature survey tool with spud bar on bottom. Hit bridge at 143', spudded one (1) hour and broke through. Encountering bridges at 197' and 214', continued in hole to 367', spudded 1-1/2" OD spud bar and bar pulled out of connection.
- Rig down wireline and attempted to strip out of hole. (No success)
- December 18, 1979 Pumped 3500 gallons of 73 pcf mud down annulus at 50 gallon/min. rate at a maximum pump in pressure of 50 psi.
- Well stopped flowing.
- Pulled 1500' of drill pipe (found 10 joints plugged with dehydrated mud). Shut well in to repair hydraulic system.

- December 19, 1979 Completed hydraulic repairs and pulled out of hole. Well started flowing. Shut well in and pumped in 2000 gallons of 73 pcf mud.
- Ran in hole to 600', air clutch on draw works broke. Ran McCullough wireline temperature survey to 2510'. While repairing clutch, maximum temperature was 236°F. Rig down wire line and prepare to lay cement plugs.
- December 20, 1979 Ran in to 1000', mixed 40 sacks of Class "G" cement treated with R-5 retarder and spotted cement plug from 1000' to 800'. Pulled up to 600', waited one hour, mixed 50 sacks of Class "G" treated with R-5 retarder. Spotted cement plug from 600' to 250'.
- Pulled up to 100' and displaced hole with water. Installed valve on top of drill pipe. Closed hydril and pipe rams and secured well.
- Crew departed at 2:00 p.m., December 20, 1979. for vacation. Crew will return January 3, 1980.
- January 3, 1980 Crew started work at 12:00 noon January 3, 1980. Repaired pump and cleaned out plugged drill pipe. Shut down at 6:00 p.m.
- January 4, 1980 Crew arrived on location at 12:00 noon January 4, 1980. Repaired mud pump. Installed new crown blocks. Raised derrick. Pulled 100' of drill pipe. Made up 6-1/4" bit.
- January 5, 1980 Finished mixing mud. Ran 6-1/4" bit and located cement at 380'. Drilled out cement 380'-730'. Ran in and located second plug at 1060'. Drilled out cement 1060'-1130'.
- January 6, 1980 Drilled out cement 1130'-1300'. Ran in to 1600' with out rotating or circulating. Put on Kelly and unable to circulate. Pulled 120' of pipe and obtained circulation. Had solid Barite and thick mud in returns. Washed and reamed 1600' to 2500'.
- McCullough ran Temperature surveys. Maximum temperature 238°F.
- January 7, 1980 Finished running temperature survey. Maximum temperatures for 3rd run = 243°F. Washed and reamed from 2500' to 2576'. Lost circulation at 2540'. Drilled 6-1/4" hole 2576' - 2615' using water. Well started flowing. Shut well in.

- January 8, 1980 Hauled 3 truck loads of water and filled pits. Pumped 30 barrels and drill string plugged. Mixed 3000 gallons of 71 pcf mud and pumped down annulus to kill well. Pipe stuck on bottom. Worked pipe free and started out of hole. Pulled 1700' of pipe and well started flowing. Pumped 71 pcf mud down annulus. Continued trip out of hole.
- January 9, 1980 Finished pulling out of hole. Found ball gone out of float sub and bit plugged with cement.
- Ran in hole and well started flowing. Shut well in. Had 32 psi on annulus.
- Circulated water through choke for four (4) hours and no change in pressure. Mixed 67 pcf mud and started circulating through choke. Casing pressure dropped to 6 psi. Continued circulating and casing pressure holding at 6 psi. Returns are cold water. No mud returns.
- January 10, 1980 Continued circulating through choke. Unable to kill well. Mixed with 67 pcf mud. Killed well pumping 67 pcf mud down annulus.
- Drilled 6-1/4" hole from 2615'-2690' using water with no returns. Pipe dropped almost free from 2680'-2685'. Drilled to 2695'. No circulation and no returns.
- January 11, 1980 Drill pipe stuck. Worked pipe free in four hours and well started flowing. Shut well in and had 24 psi on casing. Circulated water through choke for four hours and unable to kill well. Mixed one pit of 75 pcf mud & pumped down annulus to kill well. Drilled 6-1/4" hole 2695'-2715' with water. Had no returns. Drill pipe stuck for 1 hour. Worked pipe free & drilling ahead.
- January 12, 1980 The well started flowing. Mixed 66 pcf mud and pumped down annulus to kill well. Drilled 6-1/4" hole 2715'-2751'
- January 13, 1980 Drilled 6-1/4" hole 2751'-2805'.
- January 14, 1980 Drilled 6-1/4" hole 2805'-2815'. Rig down for repairs 3-1/2 hours. Drilled 6-1/4" hole 2815'-~~2820'~~. Bit stopped drilling. Pulled 500' and well started flowing. Pumped 4000 gallons of 65 pcf mud to kill well.
- January 15, 1980 Continued out of hole, pumping 1000 gallons water per hour to keep well cool. Pulled to drill collars, well started flowing. Pumped in 2000 gallons of 64 pcf drilling fluid to kill well. Pulled out of hole, cones were missing from bit. Installed rotary head while waiting on milling equipment.

- January 16, 1980 Found bit out of gauge by 3/4". Mixed and pumped 4000 gallons of 64 pcf mud before starting in hole with bit #9.
- Ran in hole while pumping 4000 gallons of water per hour. Hit obstruction at 2540'. Reaming at 2540' to get to bottom.
- January 17, 1980 Reamed hole to 2700', well started flowing. Pumped in 2000 gallons of 64 pcf mud. Reamed bottom 80' of tight hole several times.
- January 18, 1980 Pulled out of hole and had to kill well three times while pulling out.
- Ran Tri State magnet and junk boot in hole. Had to kill well two times running in.
- January 19, 1980 Continued in hole and stuck pipe at 1320'. Worked pipe free in 8 hours. Started out of hole. Pulled up to 300' and chain hoist line broke dropping pipe in hole. Waiting on tools.
- January 20, 1980 Waiting on equipment to run drill pipe.
- January 21, 1980 Ran 6-1/4" bit, well started flowing. Pumped 5000 gallons 64 pcf mud to kill well. Pressure on annulus remained at 140 psi. Bled pressure down to 5 psi and ran in to top of fish at 667'. Followed fish down hole 30' to 697'. Pulled out.
- January 22, 1980 Ran 6" skirted mill to 697', tagged fish and fish fell down hole to 750'. Pulled mill. Ran 6-1/4" bit, reamed every joint to 1040' and tagged fish at 1040'. Circulated and conditioned mud.
- January 23, 1980 Pulled up to 600' and ran back to top of fish at 1040' without reaming. Ran on fish 2 hours and pulled out.
- Ran 6" skirted mill to 1040' and did not tag fish. Continued in hole to 1127' and hit several bridges below 1040'.
- Pulled out to remove stablizers.
- January 24, 1980 Removed stablizers and ran 6-1/4" bit. Reamed 1050'-1225'. Unable to circulate. Pulled and found float sub and drill collar plugged. Unplugged and ran in hole.
- January 25, 1979 Reamed 6-1/4" hole 940' to 1625'. Pushed fish down hole while reaming from 1320'. Had to kill well 3 times while reaming below 1320'.

- January 26, 1980 Rig down five hours for repairs. Reamed 6-1/4" hole 1625'-1793'. Reamed through bridge at 1793' and tagged fish. Well started flowing. Ran on fish 2-1/2 hours with well flowing. Unable to move fish down hole. Attempt to kill well.
- January 27, 1980 Continued trying to kill well pumping down annulus. Attempted to kill well pumping down drill pipe. No success. Casing pressure held at 100 psi. Pumped 65 pcf mud down drill pipe. Bled casing pressure down to 20 psi. Stripped 4 stands of drill pipe out of hole through rotating head. Casing pressure increased to 100 psi.
- Shut well in.
- January 28, 1980 Pumped 6000 gallons of 65 pcf mud down annulus. Shut in pressure 60 psi.
- January 29, 1980 Pumped water for two (2) hours. Bled pressure down to 5 psi. Ran in hole with open end tubing to 600', well flashed. Shut well in, pumped in water and bled pressure back to 10 psi. Ran in hole to 800', pressure increased. Bled pressure to 30 psi and continued pumping water.
- January 30, 1980 Continued to pump water down annulus for four hours. Bled pressure to 10 psi. Pressured increased. Shut well in and started pumping water down annulus.
- Water pump lost prime. Unable to reprime waterpump.. Found drill pipe plugged. Pulled up to 800' and unable to unplug drill pipe. Rigged up Halliburton to attempt to unplug drill pipe. Wait on new primer.
- January 31, 1980 Rig down 9 hours for repairs. Rigged up Halliburton and pumped out mud plug in drill pipe with 1100 psi pressure.
- Pumped water down annulus for one hour. Run in hole from 800' to 1000'. Pumped down annulus for two hours. Ran in hole 1000'-1400'. Drill pipe plugged.
- Rigged up Halliburton and pumped mud plug out of drill pipe with 1400 psi pressure.
- Rig down due to loss of hydraulic system.
- February 1, 1980 Repaired Hydraulic system (18 hours). Pumped water down annulus for 2 hours to cool well. Bled annulus down to 10 psi.
- Ran in from 1400'-1793' and tagged top of fish. Plugged drill pipe. Rigged up Halliburton to unplug drill pipe.

February 2, 1980 Unplugged drill pipe with 1600 psi and circulated 2 hours.

With open end drill pipe hung at 1793', equalized 27 sacks of Class "G" cement treated with 2% HR-4.

Pulled up 300' and waited 4 hours. Ran back and located top of cement at 1670'. Equalized 56 sacks of Class "G" cement treated with 2% HR-4 through open end drill pipe hung at 1670', 56 sacks at 1370' and 74 sacks at 1070'. Had good circulation on all stages. Used Class "G" cement treated with 2% HR-4. Well flowing fresh water.

February 3, 1980 Equalized 56 sacks of Class "G" cement treated with 2% HR-4 through open end drill pipe hung at 640'. Top of cement at 340'. Upper zone still flowing.

Pulled up to 200' and shut well in for 2 hours. Opened well and still flowing slightly, Equalized 65 sacks of Class "G" cement treated with 2% HR-4 through open end drill pipe hung at 340'. Pulled up to 150', shut well in and squeezed 2 barrels of cement below casing shoe at 299' under 50 psi. Top of cement at 200'.

February 4, 1980 Well still flowing fresh water very slightly. Ran in hole to 200'. Mixed 40 sacks of Class "G" cement treated with HR-4 and circulated plug to surface. Pulled up to 20' and circulated cement out of BOP and lines. Rigged down Halliburton. Rig crew departed at 6:00 p.m.

February 5, 1980 Dug out cellar. Removed BOPE. Cut off 7" casing head 6.5' below ground level. Dumped 5 sacks of cement down top of casing. Welded 1/2" steel plate across casing stub.

Moved rig off well.

February 6, 1980 Back filled cellar and pits. Moved out rig and equipment.

Released rig at 3:00 p.m. , February 6, 1980.

February 7, 1980 Graded location and back filled last pit.

Cores were not taken in this well. Directional survey was not taken.