

MEMO



TO: File

FROM: W. R. Smith

SUBJECT: Nick Kritsos First National Bank Wells, located in the
NW $\frac{1}{4}$, Sec. 17, T-1N-R-43W

On July 6, 1966, I visited subject wells to determine the nature of water produced, and possibly locate drainage of said water while drilling.

This investigation was predicated on Mr. Kritsos' comment that the well was shut-in while stock was in the field because of the salty nature of the water.

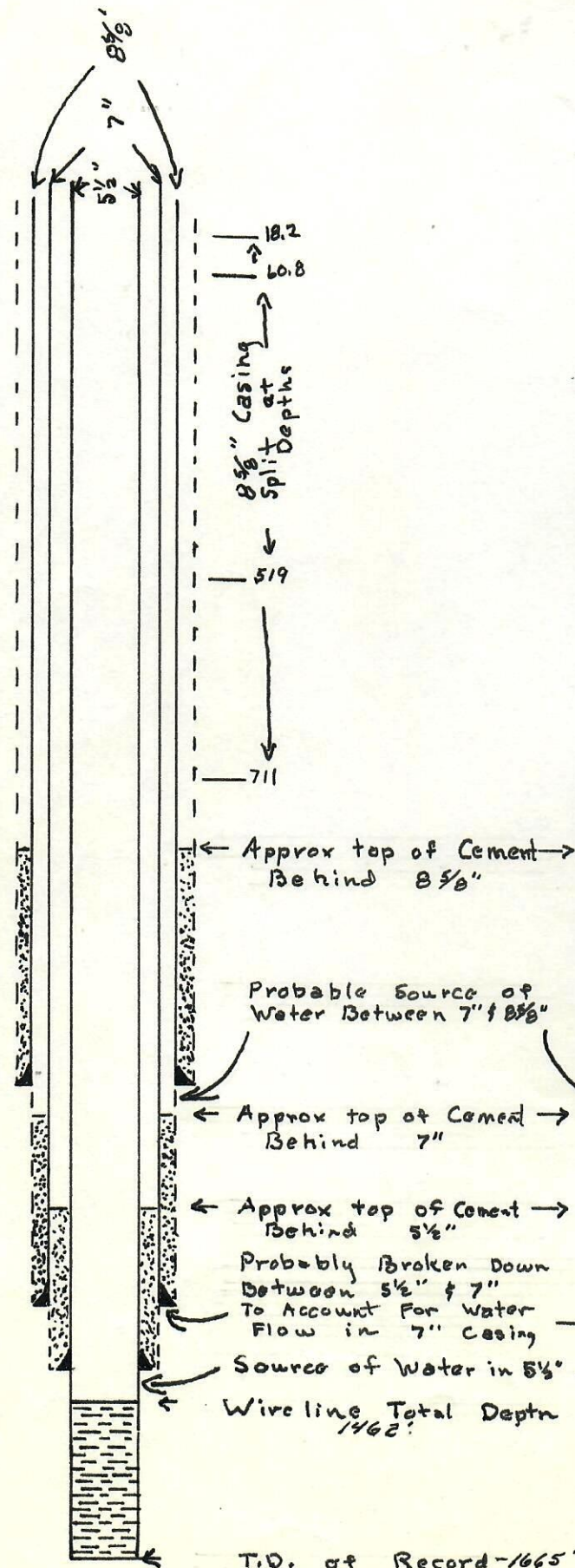
I found the well that he is working on, in the SW $\frac{1}{4}$ NW $\frac{1}{4}$, with a valve on the top. The valve was leaking a small amount of water with a very saline taste. The volume was insufficient to flow into the reserve pit, and soaked into the ground.

The other, an inactive well, located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$, was capped, but no leak and no pollution problem was apparent.

Kritsas #1 Well

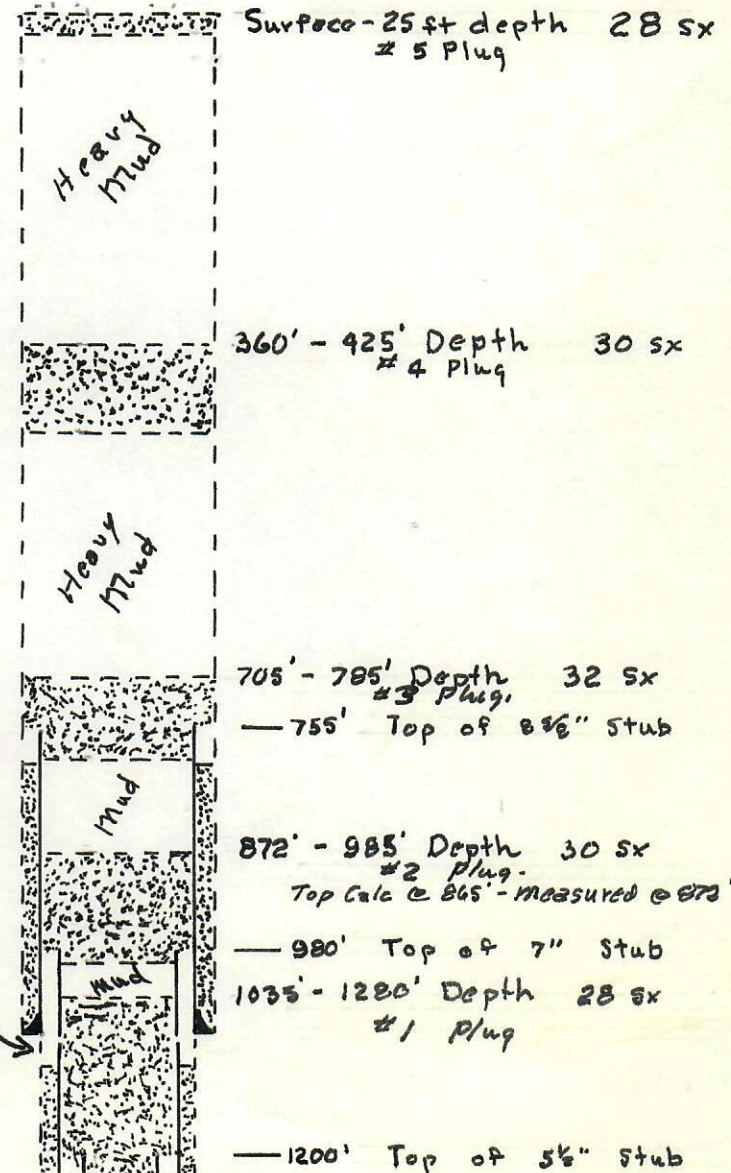
Before Plugging

Water from between strings
and from splits in 8-5/8"



After Plugging

Five plugs from 28 to 32 sx each
in and over stubs, in open hole
and in top 25 ft. and cellar.
Interval between plugs filled with
heavy mud.



Kritsas #1
Rio Blanco Co., Colorado

Oct. 7, 1969 Well Condition - three ft. stub of 8-5/8" csg. sticking up, apparently from well bore, thru 1 to 1½ ft. pad of concrete. Salt water was flowing from beneath the pad. The 8-5/8" casing was filled with cement and at the base was a 2'x2'x6" form filled with cement. Knocked off cement from around the base of the stub to find 5½" casing clamps and 5½" casing. Dug down approximately ½ ft. into the cement in the 8-5/8" stub and water started oozing thru the cement. Water appears to be different than that coming from beneath the concrete pad.

Oct. 8, 1969 Drilled 5 shot holes in concrete pad.

Oct. 9, 1969 Got pulling unit off location on Grand Mesa.

Oct. 10, 1969 Rigged up shots and blew concrete from between two I-beams on either side of well head. Found 5½", 7" and 8-5/8" casing setting on clamps. Water was flowing from between the 5½" and 7" and between the 7" and 8-5/8". Set up pulling unit. Cut off stub of 8-5/8" setting over the 5½". The 5½" had a cap fabricated from a casing protector screwed into the top collar and packed with lead wool. Unscrewed the cap and water flowed approximately 1½ to 2 ft. high from the 5½". Ran measuring line and found the hole depth to be 1462'. Let 5½" flow while digging deadmen, setting mud tank and mixing tank.

Oct. 11, 1969 Finished digging deadmen. Mixed 80 bbls of mud, wt. 10.5#/gal, vis. 45. Set swadge and valve on 5½" and pumped approx. 40 bbls to the well. Well went on vacuum. No apparent communication between the 5½" and the 7" casing. No mud or increase in flow between the 5½" and 7". Shut valve on the 5½".

Oct. 12, 1969 Strung and set all pulling unit guys. 5½" casing dead. Water flow the same from between the 5½" & 7" and the 7" and 8-5/8". Set casing jacks and set on pulling nipple to the 5½". Took strain on 5½". Used 32,000# differential pull above the calculated wt. of the string and got 3-3/4" stretch. Equals 1206 ft. of free casing. Rigged up ready to cut the 5½" casing.

Oct. 13, 1969 Thawed out lines and hooked up pump. 5½" dead. Rigged up to shoot casing. Shot casing into at 1200' depth. Fluid level before shot at 140' in 5½". Mud started around into 7". Pumped approx. 25 bbls to 5½" until water flow between 5½" and 7" killed. Small water flow from between the 7" and the 8-5/8" and small water flow now apparent from back of the 8-5/8". This flow was undoubtedly present before but could not be seen against the other larger flows. Mixed 60 bbls of mud. Pulled approx. 525' of 5½", badly scaled, and dragging badly within the 7" casing. Drained up and shut down.



Kritsas #1 (cont.)

Oct. 14, 1969 Finished pulling 5½" casing. 7" casing dead. Water flowing from between 7" and 8-5/8" and on outside of 8-5/8". Fluid level approx. 170 ft. depth in 7". Pumped 30 bbls of mud to well. Fluid level approx. 90'. Mixed 100 bbls of mud to 10.2#/gal and 48 vis. Rigged up to shoot 7". Shot 7" at 1081' depth. Fluid level fell in 7" and water shut off flow between 7" & 8-5/8" and on the outside of the 8-5/8". Pumped approx 10 bbls to 7" and mud showed between the 7" and 8-5/8". Started pulling the 7" and pulled into something tight in approx 15 ft. or at about 1065' depth. believe 8-5/8" at that depth instead of 1000' as records showed.

Oct. 15, 1969 Water had begun to flow again between the 7" and the 8-5/8". Pumped 40 bbls of mud to the 7" and killed flow. Flow dead on outside of the 8-5/8". Tried to pull and rotate the 7" into the 8-5/8". Could not. Rigged up and re-shot the 7" into at approx. 980' depth. Pulled 36 joints of range 1 and 20 joints of range 2 casing, total of 989.31 ft. Hole standing full at approx. 30' depth. Drained up and shut down.

Oct. 16, 1969 Picked up 2-3/8" tubing and ran in hole. Fluid at surface after running tubing. Found top of 7" 32 joints and 20 ft. in (980' approx.) and top of the 5½" at 39 joints and 25 ft. in (1200' approx.) Set 28 sx. cement plug inside 5½" from 1280' to 1035' depth. Cement wt. 13.8#/gal. Followed plug with ½ bbl of water and 3½ bbls of mud. Tubing pulled dry. Pulled tubing to 985' depth and set 30 sx cement plug from 985 to 865 ft. depth. Followed plug with ½ bbl of water and 3¼ bbls of mud. Tubing pulled dry. Pulled tubing. Fluid level at 75' depth approx.

Oct. 17, 1969 Shut down. W.O.C.

Oct. 18, 1969 Ran wireline weight to check fluid level and top of plug. Fluid level at approx. 75' depth. Could not get weight below 427' depth. Mud too thick and heavy. Dug out cellar to check for surface casing. No apparent surface casing present. Water flow dead behind 8-5/8". Shut down because of rain.

Oct. 19, 1969 Shut down.

Oct. 20, 1969 Picked up tubing and ran in hole to check top of plug. Top of plug in at 28½ joints. (872' depth). Circulated mud and pulled tubing. Welded on 8-5/8" pulling nipple and set casing jacks. Took strain on casing. Casing free to approx. 800' depth. Ran shot. Fluid level approx. 30' below surface. Ran shot to approx. 775' depth. Caught collar at 755' depth approx. and shot casing. Pulled approx. 40 ft. and shut down. Split in top 20' of casing.



Kritsas #1 (cont.)

Oct. 21, 1969 Pulled 8-5/8" casing. Total 734.80 ft. Picked up 26 joints of 2-3/8" tubing and ran to 785' depth. Mixed and displaced 32 sx of cement and set plug from 785' to 705' depth. Cement was 14.2#/gal. Pulled 12 joints and mixed and displaced a 30 sx plug of 13.7#/gal cement. Plug from 425' to 360' depth. Pulled tubing. Fluid level at 16 ft. depth end of pulling tubing.

Oct. 22, 1969 Fluid level at 25 ft. depth. Mixed 2 sacks of cement and set on top of fluid. Let set 4 hours and mixed 14 sacks of cement and dropped in hole. Top of cement at 9 ft. depth.

Oct. 23, 1969 Top of cement at 9 ft. depth. Hard. Filled cellar with concrete pieces from slab and 12 sacks of cement. Filled to surface. Plugged and Abandoned