

History (Continued)

- 4/19/59 Ran 5 1/2" - 15.50# and 17# New Smals. J55 casing to T.D. of 6527' and cemented w/200 sax.
- 4/19/59 - 4/21/59 W.O.C.
- 4/22/59 Drilled out inside 5 1/2" casing to 6525'.
- 4/23/59 Perforated interval 6490' - 6510'.
- 4/24/59 Ran tester w/tubing packer set at 6478'. Shut in 30 minutes, open 18 hours, no final shut in. No pressures. Found 6328' of water in tubing. Chart showed packer had held, thus showing interval 6490'-6510' to be wet.
- 4/25/59 Set Baker C.I. bridge plug at 6479' and dumped one sack cement on top same.
- 4/26/59 Shot four 1/2" holes between 6429' and 6430' for W. S. O. test. Set Tester w/tubing packer at 6396'. Ran swab through open ended tubing below packer but could not recover any fluid, thus showing W.S.O. of perforations 6429'-6430', and bridge plug at 6479' to be okeh. Chart showed packer had held.
- 4/27/59 Spotted 900 gallons B.D.A. at 6430'. (Plugged back depth 6479'). Perforated with four 1/2" jets per foot from 6420' to 6430'; from 6381' to 6396'; from 6302' to 6322'.
- 4/28/59 - 4/30/59 Preparing for fracture job.
- 5/1/59 Fractured through perforations 6302'-6322'; 6381-6396'; 6420'-6430'; with 65,000 gallons water and 100,000# of 40-60 mesh sand. Breakdown pressure 2000# to 1800#. Treating pressure; maximum 3500#, minimum 2850#, final 2750#. Time 51 minutes. Average injection rate 36.8 bbls/minute. Ran tubing. Attempted place well on production. Well died. Swabbed well on production w/small flow water and gas.
- 5/2/59 Swabbed at intervals, w/intermittent flows.
- 5/3/59 Well flowed water, gas, and some distillate.
- 5/4/59 As above, C.P. 250#, T.P. 15#, through unchoked 2" tubing.
- 5/5/59 Tubing sanded up; bridge inside at 3000'.
- 5/6/59 Found tubing stuck but pulled loose. Well completely dead.

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(Continued)

5/6/59 Found tubing stuck but pulled loose. Well completely dead.

5/5/59 Tubing sandged up; bridge inside at 3000'.

5/4/59 As above, C.P. 250#, T.P. 15#, through unclogged 2" tubing.

5/3/59 Well flowed water, gas, and some distillate.

5/2/59 Swabbed at intervals, w/intermittent flows.

5/1/59 Fractured through perforations 6302'-6322'; 6381-6396'; 6420'-6430'; with 62,000 gallons water and 100,000# of 40-60 mesh sand. Breakdown pressure 2000# to 1800#. Testing pressure; maximum 3500#, minimum 2850#, final 2750#. Time 21 minutes. Average injection rate 36.8 bbls/minute. Ran tubing. Attempted place well on production. Well died. Swabbed well on production w/small flow water and gas.

4/28/59 - 4/30/59 Preparing for fracture job.

4/27/59 Spotted 800 gallons B.D.A. at 6430'. (Plugged back depth 6479'). Perforated with four 1/2" jets per foot from 6420' to 6430'; from 6381' to 6396'; from 6302' to 6322'.

4/26/59 Shot four 1/2" holes between 6429' and 6430' for W.S.O. test. Set Tester w/tubing packer at 6396'. Ran sand through open ended tubing below packer but could not recover any fluid, thus showing W.S.O. of perforations 6429'-6430', and bridge plug at 6479' to be ok. Chart showed packer had held.

4/25/59 Set Baker C.I. bridge plug at 6479' and dumped one sack cement on top same.

4/24/59 Ran tester w/tubing packer set at 6478'. Shut in 30 minutes, open 18 hours, no final shut in. No pressure. Found 6328' of water in tubing. Chart showed packer had held, thus showing interval 6490'-6510' to be wet.

4/23/59 Perforated interval 6490' - 6510'.

4/22/59 Drilled out inside 2 1/2" casing to 6525'.

4/19/59 - 4/21/59 W.C.C.

4/19/59 Ran 2 1/2" - 12.50# and 17# New 2mils. 152 casing to T.D. of 6527' and cemented w/200 sack.

History (Continued)

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- 5/6/59 - 5/10/59 Mudding up, feeling for bridge. Found casing collapsed and hole in same at 5837', as obtained circulation outside 5 1/2" casing.
- 5/11/59 - 5/13/59 Milling ; trying clean up collapsed casing.
- 5/14/59 Pumped in 200 sax cement through retainer on tubing and out of hole in 5 1/2" at 5837'. Good returns at surface between 5 1/2" and 8 5/8" casings.
- 5/15/59 W. O. C.
- 5/16/59 Found top retainer at 5816'.
- 5/17/59 - 5/18/59 Drilled out to 5839'.
- 5/19/59 Ran 4 7/8" casing roller to 5850'.
- 5/20/59 Cleaned out to 5875'.
- 5/21/59 Ran 3 1/2" bailer to 5852' ; would not go further.
- 5/22/59 Ran 3 7/8" mill on bottom 4 7/8" casing roller. Milled to 5847'.
- 5/23/59 Left mill and casing roller stuck in hole. Ran 4 3/4" impression block to 5838', which showed gouge in center, apparently from jagged piece of casing looking up.
- 5/24/59 Suspended operations.
- 9/9/59 Resumed operations. Pumped in 15 sax cement through tubing on top of fish at 5838', inside 5 1/2" casing.
- 9/9/59 - 9/27/59 Attempted work 5 1/2" casing ; would not come free. No cuts nor perforations made in same below surface.
- 9/28/59 Welded 8 5/8" surface casing to 5 1/2" casing, then cut off 5 1/2" casing at surface. Placed a 10' cement plug inside 5 1/2" casing at surface. Placed marker pipe in this cement plug with 5' up, marked, "Alex N. Campbell - Rudman #1 Govt. Sec. 27, T25N-R9W."
- 9/29/59 Leveled and cleaned rig location.

History (Continued)

2/29/59 - 2/29/59
 Levelled and cleaned rig location.

2/28/59
 Campbell - Rodman #1 Govt. Sec. 27, T25N-R9W. "
 Placed marker pipe in this cement plug with 2' up, marked, "Alex N.
 at surface. Placed a 10' cement plug inside 2 1/2" casing at surface.
 Welded 8 5/8" surface casing to 2 1/2" casing, then cut off 2 1/2" casing
 perforations made in same below surface.

2/27/59 - 2/27/59
 Attempted work 2 1/2" casing; would not come free. No cuts nor
 fish at 2838', inside 2 1/2" casing.

2/26/59
 Resumed operations. Pumped in 15 sack cement through tubing on top of
 2/24/59
 Suspended operations.

2/23/59
 Left mill and casing roller stuck in hole. Ran 4 3/4" impression block to
 2838', which showed gouge in center, apparently from jagged piece of
 casing looking up.

2/22/59
 Ran 3 7/8" mill on bottom 4 7/8" casing roller. Milled to 2847'.

2/21/59
 Ran 3 1/2" ball to 2852'; would not go further.

2/20/59
 Cleaned out to 2875'.

2/19/59
 Ran 4 7/8" casing roller to 2859'.

2/17/59 - 2/18/59
 Drilled out to 2839'.

2/16/59
 Found top retainer at 2816'.

2/15/59
 W. O. C.

2/14/59
 Pumped in 200 sack cement through retainer on tubing and out of hole
 in 2 1/2" at 2837'. Good returns at surface between 2 1/2" and 8 5/8" casings.

2/11/59 - 2/13/59
 Milling; trying clean up collapsed casing.

2/6/59 - 2/10/59
 Mudding up, feeling for bridge. Found casing collapsed and hole
 in same at 2837', as obtained circulation outside 2 1/2" casing.