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COLO. OIL & GAS CONS. COMM.

PROGRESS REPORT
#1 LINLAND WELL
JACKSON COUNTY, COLORADO

3/8/-3/9/79

Grading snow on road from highway
to location.

3/12

Finished grading snow and cleaning up location.

3/13

Moved rig on location and preparing to rig up.

3/14

Finished rigging up, picked up tubing, preparing
to run in hole with impression block.

Ran in hole with 4-3/4" Impression Block to 4100'
- no striction pulled out of hole, top of block stuck
slightly around threads - may be due to some sludge,
bur or slug but no collapsed pipe indicated.

Moved Baker packer with retrievable bridge plug on
location, called out Dowell in preparation for squeeze
job.

3/15

Went in hole with packer and retrievable plug - set
packer at 3496' with plug at 3790' - pressured up to
2000# - held ok. Reset packer at 3431' - pressured
up with 2000# - held ok; reset packer at 3561' and
pressured up to 2000# - held ok. At 3752' circulated,
moved retrievable plug to 4313' and set packer at 3823'
preparing to back scuddle with 180 bbls KCL water -
no returns; set packer above perforations, pressured
up to 2000# - held; attempted to swab thru tubing -
too much heavy mud - could not swab.

3/16

Reset packer at 3816' and back-scuddled with little
returns; started pulling out of hole with packer and
plug, plug detached and packer drug - came out of the hole
and shut down for the night.

3/17

Went in with tubing - fished plug and came out of hole.
Well began flowing water due to the above swabbing action
of plug. Went in hole at 1:50 PM swabbed for 1 hour - all
water (down to 500') swabbing at rate of 20 bbls of fluid/hr.
Swabbed to 2000' below surface at rate of 35 bbls fluid/hr.
At 4:15 PM fluid showed gassy slightly oily muddy water -
fluid level 2000' - swabbed until 6:15 PM.

Wire line detached - restrung same.

Progress Report (2)
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3/18 Checked fluid level and found fluid at top of hole.

3/19 Had 2-1/2' of snow - cleaned same off location. At 9AM resumed swabbing operations. Swabbed to 1500' - fluid level 900' from top of casing - made 4 runs - got heavy drilling mud with streaks of oil, too thick to run swab. Pulled out of hole - took off swab cups - ran sinker bar to stir up mud and loaded hole with KCL water. Attempted to continue swabbing down - too muddy so pulled out of hole. Ran back in hole with tubing to 2695' and circulated with KCL water - circulated 10 bbls of mud - broke out around outside of casing.

3/20: Attempted to back scuddle - pumped down casing with KCL water and circulated - immediately gas started blowing around casing and tubing - pulled out of hole and shut down for the night. Called Oilwell Perforators and Dowell Cementers out on location. Making preparations to squeeze above top of perforations and above the zone at 1000'

3/21 As soon as service companies arrive will do a squeeze job.

Hole was standing full and gas was blowing around surface pipe - opened up same and blew well down.

Ran back in hole with perforating gun and perforated four holes/foot at 3500' - then pulled out of hole. Ran back in hole and set plug at 3555' - pulled out of hole. Dropped two sacks of sand in hole (filled hole up 17') and then set packer at 3455' - pumped away 100 sacks of cement - no back pressure; killed gas flow for 2-1/2 hrs. and gas started flowing after 2-1/2 hours at a considerably lesser rate than previously - shut well in for the nite.

Will squeeze additional cement (80 sacks) and wait on cement 3 hrs., then stage in additional cement - if needed and then let cement stand.

3/22

Well was dead - fluid to surface, circulated with water to clear perforations then pressured up to 1000# with 90 sacks of cement - pressured up to 1000#. Broke circulation to top - heavy oily mud between surface and casing. Waited 3 hours - 4 cu ft of cement still in the tubing after 3 hours. Waited 3 more hours and pumped 3 cu ft into the perforation with 1200#; then after 30 minutes pumped 1 cu ft of cement with 700#, then again after 30 minutes pumped in another 1 cu ft of cement at 700#. Shut well down for nite. While well is killed welded plate on between casing and surface.

Progress Report (3)
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- 3/23 Pressure tested to 1000# held, pressured tested to 2000#, bled slightly, then pressured tested to 2000# again - bled down slowly. Released Dowell. Preparing to drill out Monday.
- 3/26 Drilled out 60' of cement - came out of hole. Went back in hole and attempted to remove retrievable plug, unable to so came out of hole and repaired retriever, went back in hole and circulated sand off top of plug and came out of hole. Went back in hole and got plug and pulled out - shut down for the night.
- 3/27 Attempting to swab and back-scuddle.
- 3/30-4/1 Went in with bridge bit. Had hard spot @ 4400'. Drilled 40' shale out. Circ to 5040'. Good oil and gas shows from 4400-4500'. (More than previously) POOH. SION. Released crew for weekend while hauling in 500 barrel tank & graveling road. Have put 8" gravel over 1/3 of mil on Friday and Saturday. SD over Sunday. Will continue to gravel Monday am. Saturday am opened valve. Flowed back Muddy H2O all day Saturday and Saturday nite and all day Sunday. Still overflowing from casing valve, Sunday nite.
- 4/2 3:30 Swab to 3900'. Recovered oily water with constant gas odor. Pulling 200' per trip. Fluid reenter at 100' between pulls. Continued swabbing until 7 p.m. Fluid continued to gain. Fluid level was 3600' when shut down. (-12 deg.)
- 4/3 Fluid level was 2400'. Swab down to 4000' by 11:30 a.m.. 250' per trip. Highly gassy water with chunks of mud and heavy scum of live brown oil. (Niobrara oil should be green). Engineer, Tom Pops says discoloration is probably due to KCL introduced with water. Still graveling road. Approximately one mile completed; 1/3 mile to go. Swabbed down to 4200'. Could not continue swabbing through the casing due to water loss through the perms above the fluid level. Pulled out of hole. Ran tubing to 4745'. Commenced swabbing through tubing at 4 p.m. Swabbed down to 4300' by 7 p.m. Black muddy water with trace of oil. (7 p.m. - 18 deg. and falling)
- 4/4 7 a.m. Fluid level was 3000'. Swabbed 30 barrels in 4 hours. Fluid level at 3800'. Muddy water with chunks of mud. Trace of black oil. Intermittent blow of gas.

Progress Report (4)
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- 4/4 Swabbed to 4600' by 7 p.m.. Swabbed total 60 barrels for day. Well swabbed dry. Sample of the water sent to Dowell, Casper, for analysis. Shut in overnight.
- 4/5 Fluid level 2900'. Dark, muddy water with trace of oil. Loading hole with KCL water. Will round-trip tubing to run packer preparatory to acid wash of perfs.
- 4/5 p.m. Fluid level at 2900'. Swabbed 3 pulls. Didn't get appreciable fillup. Recovered muddy water with slight show of oil. Loaded hole with KCL water (125 barrels). Set packer at 4000' - Below top perfs and above the lower perfs. At 2:30 p.m. pumped in 1300 gallons combined MSR 100 acid. Displaced to perfs. Washed across perfs with pump for one hour; let stand one hour. 5 p.m. unseated packer. Commenced swabbing through tubing. Swabbed back 72 barrels acid water. 7 p.m. Shut down for night. Fluid at 2000'.
- 4/6 7 a.m. Tagged fluid at 2000'. Swabbed to 4000' by 10:15 a.m. Acid water began to show brown color and slight scum of green oil at 4400'. Stopped swabbing for 15 minutes to check fillup. No change in fluid level. Lowered tubing from 4400' to 4735'. Continuing to swab.
- 4/7 Fluid level at 3400'. Swab down to 4000' by 10:30 a.m.. Waited 1/2 hour. Had 300 fillup. Swabbed to 4400'. Recovering various colors of muddy water ranging from very black asphaltenic scum through rust color; cream color to gray with scum of oil. Swab to 4500'. Shut down
- 4/8 Fluid level at 4100'. Swab to 4500'. Gray muddy water. No show. Shut down.
- 4/9 Fluid level static at 4500'. Rigged down. Released rig. Drop from report until operations resume.

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