

MCNEIL AND ROBERTS
PETROLEUM GEOLOGISTS
212 DERBY BUILDING
WICHITA 2, KANSAS
PHONE 4-1261
Feb. 4, 1950.

T. N. ROBERTS
RES. PHONE
3-0161

HAROLD E. MCNEIL
RES. PHONE
62-6261

Birmingham Bartlett Drilling Co. #1 Worley,
SW SE SW 4-11-15W, Russell Co. Kansas.
Elevation 1907 derrick floor,
1909 rotary bushing.
(Measurements are from top of rotary bushing.)

GEOLOGICAL REPORT

8 5/8" cemented @ 184.

Top Cimarron anhydrite 990. (Driller)

Top Topeka lime 2737.

2786-2790 Mostly dense lime-trace pinpoint slightly porous lime-
dark stain.

2835-2850 Dense lime-very spotted dark stain.

2951-2966 Trace partly crystalline lime-very spotted slight porosity-
spotted light stain.

Top Heebner black shale 2985 (-1076)

Dodge(Toronto) lime 3009-3020. No shows.

Top Lansing-Kansas City lime 3047. (-1138)

3065-3068 Oolitic and crystalline lime-fair to good porosity-show
of free oil-saturation approximately 90%.

Drill stem test 3063-3075--open 40 minutes--filled 40' fluid-10' slightly
oil cut mud-30' salt water. Bottom hole pressure 620# psi.

3120-3129 Trace partly crystalline lime-very spotted poor porosity-
trace of stain.

3215-3221 Trace pinpoint porosity-spotted dark stain.

3221-3229 Partly crystalline lime-spotted slight porosity with staining-
good odor.

Drill stem test 3215-3230--open 45 minutes-weak blow-filled 20' mud.

Base Kansas City lime and top Marmaton shale 3314.

No conglomerate.

Top Arbuckle dolomite 3369. (-1460) Medium crystalline cherty dolomite-spotted
slight porosity with show of free oil-faint odor.

* Total depth 3372. Recommended that casing be cemented at 3370.

Remarks;

Samples were examined by me 2700' to total depth. Drilling was supervised
2970 to total depth. The well is structurally flat with lowest producers in
the north end of the Fairport pool. All shows encountered above the top of the
Arbuckle appeared to be noncommercial.

Yours very truly,

Harold E. McNeil
Harold E. McNeil

+ 2' down hole correction on stripping drill pipe

BIRMINGHAM-BARTLETT DRILLING CO.
300 KAUFMAN BUILDING
WICHITA 2, KANSAS

RE: Woley "C" #1 Well
SW₁⁴ SE₁⁴ SW₁⁴ 4-11S-15W
Russell County, Kansas

BRIEF REPORT OF CABLE TOOL DRILLING-IN
BY CHAS. H. KEEVERT

- 2-2-50 Frank Woods drilling-in unit moved in
2-3-50 Rigging up
2-4-50 Bailed mud to plug and float at 3339'
Drilled plug and float and hard cement to 3370'
2-5-50 Drilled hard cement to shoe @ 3373'
Clean out cement & rotary cuttings to 3375'
In doing so, drilled approximately 6" new hole.
Hole tested 1 Gal. oil in 2 hrs.
Washed hole with water - dumped on bottom thru bailer - no increase
Drilled 1' of new hole 3375 to 3376' - Sandy, tight, saturated, approx 80%,
with few pieces containing free oil while wet.
Dumped 2 bailers acid on bottom within 1 hr to clean up formation - no increase
Acidized with 250 gallons ~~mm~~ thru casing - with starting pressure of 300#,
formation took no acid - gradually increased pressure until 1000# was
reached - acid on bottom.
With pressure @ 1000# for 30 min. - pressure dropped to 500# in 2 min.
Pumped acid at rate of 1/5 bbl. per min @ 625 treating pressure.
Well flowed back approximately 2 bbls (indicating circulated shoe)
Swab back load into test tank
2-6-50 Load water and acid water back @ 1 AM
Hole tested with bailer for 2 hrs. - testing approximately 1 gal. oil & 1 1/2 gal
acid water per hour.
Drilled new hole:
3376-77 - Cherty, sandy dolomite, very light stain, no porosity
3377-79 - More chert, less stain & porosity
3379-80 - Less chert, dolomite was coarse crystalline. More saturation;
some free oil in wet sample
Tested with bailer for 3 hrs - testing 3/4 gal. oil, with approximately 1 gal
acid water per hr.
Drilled 1' - 3380'-81 - Sandy dolomite - some white to clear chert. Scattered
pieces of saturated dolomite - no increase in fluid.
Lane Wells perforated with open hole Kone-gun from 3373.6 to 3380' with 15 shots.
(Loaded hole with 400' of water) - Shots knocked in approximately 10' of cavings,
all of which was dolomite - after cleaning out, hole was washed and flushed
with water and acid for 2 hrs before acidizing.
2-7-50 Dowell acidized thru casing w/approx. 700 gal. Input was approx 1/4 bbls in
10 min, with gradual increase in pressure - pumping in low gear. Final
pressure at end of 3 hr. treatment 850# - with no pressure drop in 5 min.
Swabbed thru casing to return acid load. Well tested 1 gal. oil & 1 1/2 gal water
per hr. - no increase.

*2 copies Sahis
1 copy Libbey
1 copy Bennett*

2-7-50 Drilled 3381-83 - Shot tin. - spotted saturattion- pieces dolomite-no increase
(Cont'd) 3383-84 - Same as above - no increase
3384-86 - Same as above - no increase
3386-88 - Cherty dolomite - no show
3388-90 - Same as above
3390 -91- Cherty dolomite - very light stain

Washed formation by dumping water - tested hole for 1 hr - no increase in fluid

2-8-50 Bit unscrewed at 2 AM - wait on fishing tools.
T.D. at time of lost bit - app roximately 3395.
Run friction socket - could not get over bit.
Run combination slip, Pin Socket, It would not go over bit.
Run impression block - which shows bit laying over approximately 2/3 way in hole.
Also, that pin was off bit.
Stringing up 4" tools, prepare to drill "by" bit.
Run Hallibutton Line -(Zero Ground)
~~XXXXXXXXXXXX~~
3391' - T.D. on top of bit
3397 - T.D. Rotary measurements.
Start drilling "by" lest bit at 8 PM

2-9-50 Drilled by lost bit and drilled from
3391 to 3410 - Cherty dolomite with thin streaks of shale. Hole caving,
water increase from 3406' to 3410'.
Bailed and tested for 2 hrs. Hole making approximately 1 Bbl. water per hr.,
with scum of oil -(water muddy)

2-10-50 Cleaning out cavings from 8' to 20' off bottom.
Could not stay on bottom to drill.
Bailed off bottom for 3 hrs. - Hole tested 1 Bbl. water w/ scum of oil per hr.
Orders to abandon hole at 8 AM.
Tearing down & stacking tools.

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