

November 28, 1983

GEOLOGICAL WELL REPORT

Alco Drilling Co., Inc. #1 Dale Smith

NE SE NW Section 11-T18S-R18E,

Wildcat, Franklin Co., Kansas

Contractor: Alco Drilling Co., Inc.

Spud: November 16, 1983

7" Surface casing at 197'

Total Depth: 1416' (Rotary) 1410' (GRN Log)

Completed as a dry hole: Nov. 22, 1983

ALCO DRILLING CO., INC.

RFD #3

Iola, Kansas 66749

Gentlemen:

Listed below are the pertinent geologic tops and an evaluation of the porosities encountered. No drill stem tests were taken. The hole was logged electrically before abandonment.

Samples were examined and drilling witnessed from the 995' depth to Total Depth 1416'.

Enclosed herewith is a copy of the plotted drilling time log from zero to 1416 which also includes lithology, porous zones, and other pertinent data.

ELECTRIC LOG TOPS

ELEVATION 1045 Est. G.L.

LANSING 216 (+ 829)

KANSAS CITY 416 (+ 629)

BASE OF KANSAS CITY 607 (+ 438)

PAWNEE 785 (+ 260)

CHEROKEE 903 (+ 142)

SQUIRREL SAND 903-15 Sandstone, fine, light greenish, clean to muddy, poor porosity, no show, no odor, no fluorescence.

BARTLESVILLE SAND 1262 (- 217)

1262-1282 Sandstone, medium grained, clean, loosely clustered, angular to subrounded. Good porosity, no show, no odor, no fluorescence.

BURGESS SANDSTONE

1342 (- 297)

1342-1392 Sandstone, medium coarse, clean, loose grained,
rounded, good porosity, no show, no odor,
no fluorescence.

MISSISSIPPIAN LIME

1398 (- 353)

1411-1416 Dolomite, buff, sucrosic, minor fine, sucrosic
porosity. No show.

TOTAL DEPTH

1416 (Rotary)

1410 (GRN Log)

Conclusions and Recommendations

Comparing this test to the #1 Rubick previously drilled approximately 2½ miles southwest, we found considerable changes particularly in the stratigraphic section penetrated. The #1 Smith encountered only 20 feet of good Bartlesville Sand as compared to 79 feet of sand at the Rubick. In addition, the subject well found a heavy sand body of 50 feet directly overlying the Mississippian Limestone, which I have designated as Burgess Sand, due to its stratigraphic position. The Rubick drilled a 4 foot sand body in the same relative position. The Burgess and Bartlesville have good reservoir properties but carry "no shows."

Structurally, at the Base of the Kansas City it was expected that the Smith would check somewhat higher than the Rubick due to regional dip, but this is not the case. At the base of the Kansas City the Rubick is only 7 feet lower than the #1 Smith indicating the Rubick well to be relatively higher than the #1 Smith after considering regional dip.

Although developing good reservoirs no "shows" were observed and the #1 Smith was recommended plugged as a dry hole.

Yours very truly,

T. G. Wright

TGW:wlf

DRILLING PROGRESS

11/16/83

17

18

19

20

21

22

Spud

WOC 197'

449

980

1108 SD

1108

1416 TD

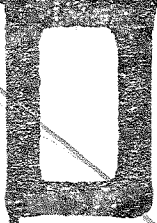
D&A

325

+344

SD-189
MISS-391

ROSEMONT

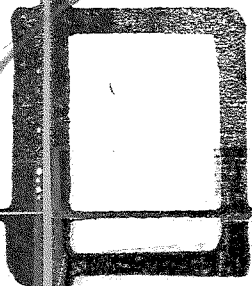


+343

18-17

+405

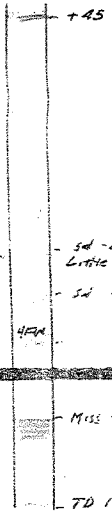
WILLI



+397

SD-13
TD 126

300

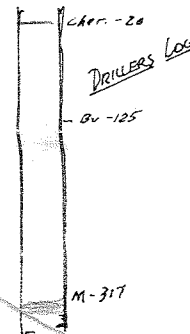


sd-213
Little water 23' sd
sd 1366-1425
50' ad

+296

Box 10

TD 1490
in MISS.



+4

+118

-118
sd 130
122'

MISS-2
TD 1490
50' MFA

+357

400-472

HOMERWOOD

RANSOMVILLE

WILLIAMSBURG

18-18

TD 1015
Poor Log

+397

-460 +129

34-135' NEW
TD 1285'

+428
TD 1170

+457

198
Sub 1246-75
25' sub.
TD 1320

+405

Chert - 20
DRILLERS LOG
- 0v - 125
M-317

+421

+412

+118

-118
sd 1300-1422
122' sd

+436

Chert +163

W. sd 1050-1118

-118
sd 1251-1308
1474
Chert base Rd.

450

WILLIAMSBURG

18-18

+405

+397

Chc +129

34-136 NFW
TD1285

+428
TD1170

198
Sol 124
25'
TD1320

Chc +20
DRILLERS LOG
Du -125
M-317

+421

+412

+118

+118
Sol 1300-1422
122' sd

MSS-278
TD 1434
Sol - NFW 1460

+436

Chc +163

Sol 1050-1118

Sol 1251-1304
NFW
Chc +163

MSS-273
TD 1711

450

+357

Chc +72

+440

Chc +126

Sol 1292-1393
101' sd

325

1344

SD-189
MISS-391

ROSEMONT

+343

18-17

300

+45

-213

sd-213
Little wtr. 23' sd

sd 1366-1425
59' sd

424

+296

Boor 100

MISS-383

TD 1490
in MISS.

TD 1603

400

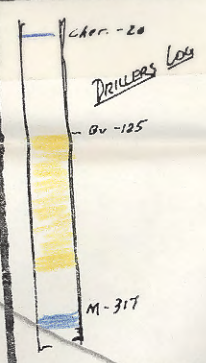
+397

440-124

54-135 NFW
TD 1285

WILLIAMSBUR

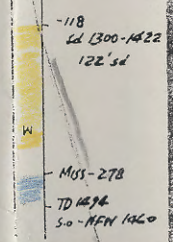
+405



+421

+412

+118



+440

440-126

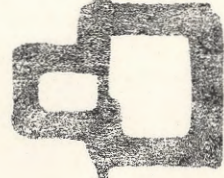
+357

440-127

840-118

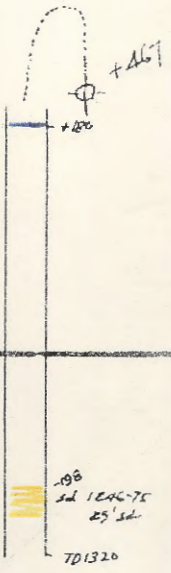
50 1292-1393
101' sd

HOMERWOOD



RANSOMVILLE

⊕ TD1015
Poor Log



⊕ +428
TD1170

475

+438
Bv-153
TD-278
18-18

450

