

15-139-20021
well number 2
SW SE SW

31-18-15E

JUNE 23, 1978

Computer Inventoried

GEOLOGICAL WELL REPORT

Alco Drilling Co., Inc.
#1 J. S. Brandon, NW SE SW
Section 31-T. 18S - R. 15E.,
Last Chance Pool Area,
Osage County, Kansas
Alco Drilling Co., Inc. - Contractor
Spud: June 17, 1978
7" Surface Casing @ 50' 158✓
4 1/2" Production Casing @ 1762'
Rotary Completion: June 22, 1978
Total Depth: 1590'

ALCO DRILLING CO., INC.
RFD #3
Iola, Kansas 66749

Gentlemen:

Listed below are the pertinent geological tops and an evaluation of the porosities encountered. No drill stem tests were taken and the hole was not logged mechanically before being cased.

I arrived at the location at a depth of 1265' and witnessed the drilling from that point to TD 1590'. Samples were examined from 1300 - 1590' TD.

Enclosed herewith is a copy of the plotted drilling time log from 50-1590' TD which also includes lithology, porous zones, tops, and other pertinent data below 1300. A diamond core was cut in the Bartlesville Sand, core description included below.

6-30-78

SAMPLE TOPS

ELEVATION	1151 (Private Elevation)
KANSAS CITY	835 (+ 316) 835 (+ 316)
BASE OF KANSAS CITY	1045 (+ 106) 1048 (+ 103)
PAWNEE	1205 (- 54) 1205 (- 54)
CHEROKEE	1324 (- 173) 1326 (- 175)
BARTLESVILLE SANDSTONE	1516 (- 365) 1515 (- 364)

GRN LOG
TOPS
HEEB 325 (+826)
DUG 364 (+787)
LANS 647 (+504)

Gentlemen Dr 1420
(-269)

1516-20 Sandstone, medium fine, clustered, fairly clean. Fair porosity, good oil stain, trace of free oil. Good golden fluorescence.

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DIAMOND CORE #1

	1520-1542	Recovered 100%
1520-1521	Sandstone, fine, clean, compact, fairly friable, loosely lime cemented, fair porosity, good oil staining, some oil bleeding and fluorescence.	
1521-1523	Sandstone, very fine, compact, tight, calcareous, no stain.	
1523-1524½	Shale, gray-green, hard, laminated with paper-thin silty streaks.	
1524½-1527½	Sandstone, medium grained, angular, clean, somewhat calcareous, compact, fairly friable, fair to good porosity, oil stained, good golden fluorescence, some bleeding oil.	
1527½-1528	Hard, compact, gray-greenish.	
1528-1532	Sandstone, light gray, fine, calcareous, tight, no show.	
1532-1536	Shale, gray-green, hard, compact.	
1536-1538	Shale as above, thin streaks of fine, tight, calcareous sandstone	
1538-1539	Sandstone, medium coarse, friable, clean, angular, good porosity, good oil stain and fluorescence.	
1539-1541	Gray, compact shale.	
1541-1542	Shale, gray, hard, silty.	

Bartlesvilled Sandstone (cont'd)

1542-1590	Sandstone, clean, light gray to white, medium fine to medium coarse, porous, no stains, no fluorescence.
TOTAL DEPTH:	1590'

Conclusions and Recommendations

Structurally, at the top of the Bartlesville, this well is 15 feet lower than Brunson-Spines #3 Jones, slightly less than 1/2 mile southwest and the nearest producing well in The Last Chance Pool, however the producing zone in the #3 Jones is at -366 which indicates less drastic structural change. On the basis of the

ALCO DRILLING CO., INC.
#1 J. S. Brandon, Osage Co., Kansas

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June 23, 1978

Conclusions and Recommendations (cont'd.)

core on this well it is believed we have three feet of potential pay 1524½ - 27 in addition to one foot 1538 - 39. It is possible we drilled additional "pay Zone" 1516 - 20 before coring and the upper one foot of the core 1520-21 carried a show of oil. It is possible this well has 7-8 feet of potential "pay".

It was recommended that the hole be cased to test the Bartlesville Sand.

Yours very truly,

T. G. Wright

TGW:wlr

BIT RECORD

SMITH

F₂ (rerun)

50 - 1590 TD

DRILLING PROGRESS

6/17/78	Spud		
6/18	Shut down		
6/19	390		
6/20	1012		
6/21	1590 TD	WOC	4 1/2"