

ORIGINAL

GEOLOGICAL REPORT

Asher Associates, Inc.  
 #1 BUCKNER, SOUTH  
 Approx. SE/NW/NE Section 1-T8S-R22W  
 Graham County, Kansas

ELEVATION: G.L.=2139', K.B.=2144'

CONTRACTOR: Abercrombie Drilling, Inc.

COMMENCED: Moved in beginning 9/22/92  
 Spud well 8:45 a.m., 9/25/92

COMPLETED: 10/1/92

CASING: Ran 5 joints 8 5/8", 24# casing set  
 at 253' with landing joint. Cemented  
 with 170 sacks 60/40 pozelonick  
 cement, 3% CaCl<sub>2</sub>, 2% gel., cement  
 circulated. Plug down at 1:45 p.m.  
 9/25/92.

ROTARY TOTAL DEPTH: 3684' in Pennsylvanian Conglomerate

DRILL STEM TESTS: DST #1, 3349-3365 (Lansing-Kansas  
 City) 30"-30"-30"-30", Weak blow for  
 10" and died. Recovered 5' Drilling  
 mud with a few specks of oil, IFP  
 48# - 48#, ISIP 57#, FFP 48# - 48#,  
 FSIP 48#

DST #2, 3402-3429 (Lansing-Kansas  
 City) 30"-30"-30"-30", Good blow,  
 recovered 570' salt water with a  
 scum of oil, IFP 96# - 201#, ISIP  
 875#, FFP 259# - 288#, FSIP 750#

DST #3, 3502 - 3535 (Lansing-Kansas  
 City) 30"-30"-30"-30", weak blow 30"  
 first opening, no blow second  
 opening, recovered 25' of slightly  
 oil cut mud, IFP 57# - 57#, ISIP  
 67#, FFP 57# - 57#, FSIP 57#

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SAMPLE TOPS:	ANHYDRITE	1683	(+ 461)
	TOPEKA	3100	(- 956)
	HEEBNER	3315	(-1171)
	TORONTO	3338	(-1194)
	LANSING/KANSAS CITY	3351	(-1207)
	BASE/KANSAS CITY	3550	(-1406)
	ROTARY TOTAL DEPTH	3684	(-1540)

## SUMMARY:

The #1 Buckner, South was under geological supervision from a depth of 2900' to rotary total depth of 3684'.

All well cuttings gathered at 10 foot intervals were examined microscopically for shows of oil and/or gas.

Three such shows were encountered and subsequently evaluated by drill stem test as noted above.

- 1 Lansing/Kansas City "A" zone.  
Limestone, white, fossiliferous, mostly dense, occasional fair fossil porosity, fair show of free oil, very slight odor. Tested by DST #1. Judged not commercial.
- 2 Lansing/Kansas City "C" and "D" zones.  
"C" zone, Limestone, cream, occasional oolitic to vugular porosity, mostly dense, fair show of free oil, slight odor. "D" zone, Limestone, cream to buff, very finely crystalline, dense, very small show of free oil. Tested by DST #2. Judged not commercial.
- 3 Lansing/Kansas City "I" and "J" zones.  
"I" zone, Limestone, cream to buff, finely crystalline to dense, slightly cherty, small show of free oil, slight odor. "J" zone, Limestone, tan, finely crystalline, some fair inter-crystalline porosity, good show of free oil. Tested by DST #3. Judged not commercial.

No Arbuckle dolomite was encountered in the well. An apparent Karst type of topography was encountered with a thick section of Pennsylvanian conglomerate deposited in the unconformity and replacing that section of Cambro-Ordovician that was above the Arbuckle water table and expected to be productive. No reservoir was observed in the conglomerate rocks.

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Due to the fact that all oil shows observed during drilling operations were tested by Drill Stem Test with negative results it was determined that no basis existed for an attempt at completion for commercial production.

The well was judged a dry hole and after obtaining permission from the Kansas State plugging agency was plugged and abandoned.

Respectfully submitted

Harold W. Patton Jr.