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**GEOLOGICAL REPORT**

(A.P.I. ~~15-053-21,090~~)

15-009-24557

John Roy Evans  
Kaiser No. 1  
Page No. 1

(N2 SWNE NW)  
75' N/SW/NE/NW  
Section 6-18s-11w  
Barton County, Kansas

**DRY AND ABANDONED**

**CONTRACTOR:** Duke Drilling (Rig #1)

**COMMENCED:** 07-29-93

**COMPLETED:** 08-04-93

**ELEVATIONS:** 1819' K.B.; 1811' G.L.

**MEASUREMENTS:** All depths measured from the Kelly Bushing.

**SAMPLES:** Samples examined 2100' to 3418' the Rotary Total Depth.

**DRILLING TIME:** Five (5) foot drilling time recorded 2100 - 2600'. One (1) foot drilling time recorded 2600' to the Rotary Total Depth.

**CASING PROGRAM:** Surface - 8 5/8" at 306'; Production - None.

**ELECTRIC LOG:** None.

**FORMATION TESTING:** There was one (1) drill stem tests ran by Swift Testers.

<u>FORMATION</u>	<u>Sample Tops</u> <u>ELECTRIC LOG DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite		
Grand Haven	2270	- 451
1st Tarkio Sand	2330	- 511
Tarkio Lime	2390	- 571
Howard	2550	- 731
Severy Shale	2570	- 751
Topeka	2608	- 789
Heebner	2938	-1119
Toronto	2957	-1138
Douglas	2970	-1151
Brown Lime	3044	-1225
Lansing	3060	-1241
Base Kansas City	3288	-1469
Conglomerate	3321	-1502
Arbuckle	3364	-1545
Rotary Total Depth	3418	-1599

(All tops and zone determinations were made from a correlation of sample analysis and a drilling time log.)

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**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TARKIO SAND**

2330 - 2335 (5)' Sand; gray to green, fine grained, micaceous, glauconitic, friable, sub rounded. No shows of oil.

**TOPEKA SECTION**

There were no zones of porosity throughout the Topeka that had any indications of Hydrocarbons.

**TORONTO SECTION**

2957 - 2964' Limestone; cream to gray, chalky, oolitic to fossiliferous, fair fossil-cast porosity. Trace light golden stain, no free oil and no odor in fresh samples.

**LANSING SECTION**

3061 - 3065' Limestone; cream to gray, fine, trace crystalline porosity, plus traces gray fossiliferous. Fair to good fossil-cast porosity. No shows of oil.

3090 - 3096' Limestone, cream to white, finely oolitic, chalky, poor porosity. Trace spotty stain. No free oil, no odor in fresh samples.

3116 - 3123' Limestone; cream to white, finely oolitic to fossiliferous, chalky. Light brown spotty stain. Trace light golden free oil. Faint odor.

**DRILL STEM TEST # 1 3048 - 3118' (0-58') LANSING**

Open: I.F. 30"  
F.F. 30"

Blow: Weak 25"

Recovery: 20' drilling mud

Pressures: ISIP 875 (30") psi  
FSIP 811 (30") psi  
FP (57-65) (65-65) psi  
HSH 1544 - 1539 psi

3128 - 3132' Limestone; mottled gray slightly chalky, oolitic to dark gray fossiliferous, poor porosity. No shows.

3136 - 3167' Limestone; gray to dirty gray, oocastic to oolitic, fair oocastic porosity, no shows of oil.

3194 - 3198' Limestone; cream, chalky oocastic to oolitic. Trace dull gray stain. Trace free oil (dead), faint odor.

3222 - 3230' Limestone; cream to white, finely oolitic to oocastic, fair oocastic porosity, spotty stain, trace free oil (dead) no odor. Abundant white chalk.

3262 - 3264' Limestone; cream to gray, finely oolitic to fossiliferous, poor fossil-cast porosity. No shows of oil.

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**GEOLOGICAL REPORT**

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15-053-21557

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**CONGLOMERATE SECTION**

3321 - 3364' Chert; vari-colored opaque, traces of white to pink oolitic, rose dense limestone, trace gray fine grained tight barren sandstone, all in matrix of vari-colored shale. No shows of oil.

**ARBUCKLE SECTION**

3364 - 3374' Dolomite; gray to tan, finely crystalline to dense, cherty, poor porosity. No shows.

3374 - 3390' Dolomite; as above, plus mottled tan oolitic, cherty dolomite. No shows.

3390 - 3418' Dolomite; gray dense cherty, white opaque and pink to white oolitic chert, abundant white chalk. Abundant red green shale, throughout section.

**ROTARY TOTAL DEPTH** 3418' (-1599')

**REMARKS:**

During drilling, the #1 Kaiser was referenced structurally against the #2 Drews, an abandoned Arbuckle producer 660 feet west and 75 feet south.

The Topeka was encountered 3 feet low, Heebner - 3', Lansing - 3' and the Arbuckle was 22 feet low.

**RECOMMENDATIONS:**

Due to the low structural position, negative drill stem test and there being no other zones worthy of any further testing, it was recommended by all parties concerned, that the #1 Kaiser be plugged and abandoned at the Rotary Total Depth of 3418' (-1599').

Respectfully submitted;

  
J.C. Musgrove  
Petroleum Geologist



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