

15-053-21109

05-175-08W

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Kent Operating Co.
Ashley #1
S/2-NE-SE; Section 5-17s-8w
Ellsworth County, Kansas
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KCC WICHITA

1830 FSL

710 FEL

Dry and Abandoned

- Contractor:** Sterling Drilling Company (Rig #1)
- Commenced:** January 15, 2002
- Completed:** January 22, 2002
- Elevation:** 1699' K.B.; 1697' D.F.; 1690' G. L.
- Casing Program:** Surface; 8 5/8" @ 284'
Production; None
- Samples:** Samples saved and examined 800' to the Rotary Total Depth.
- Drilling Time:** One (1) foot drilling time recorded and kept 800' to the Rotary Total Depth.
- Measurements:** All depths measured from the Kelly Bushing.
- Drill Stem Testing:** There was one (1) Drill Stem Test ran by Trilobite Testing Inc.
- Electric Log:** None.
- Gas Detector "Mud Logger":** By Hydrocarbon Mud Logging Inc. on location and operational 800' to R.T.D.

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Herington	1170	+529
Winfield	1222	+477
Towanda	1277	+422
Ft. Riley	1321	+378
Florence	1363	+336
Base Florence	1421	+278
Wreford	1471	+228
Council Grove	1511	+188
Neva	1662	+7
Red Eagle	1747	-48
Grand Haven	1960	-261
1 st Tarkio Sand	1966	-267
Tarkio Lime	2045	-346
Elmont	2113	-414
Burlingane	2186	-487
Scranton	2201	-502
Howard	2261	-562
Severy	2324	-625
Topeka	2361	-662
Heebner	2619	-920
Toronto	2638	-939
Douglas	2650	-951
Brown Lime	2737	-1038
Lansing	2755	-1056

Base Kansas City	3082	-1383
Conglomerate	3100	-1401
Shaley Conglomerate	3118	-1419
Maquoketa	3155	-1456
Viola	3228	-1529
1 st Simpson Sand	3294	-1595
2 nd Simpson Sand	3304	-1605
3 rd Simpson Sand	3338	-1639
Arbuckle	3342	-1643
Rotary Total Depth	3392	-1693

(All tops and zones determinations were made from a correlation of Drilling Time Log and Sample Analysis.)

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

HERINGTON (CHASE) SECTION

- 1170-1195' Dolomite; tan, anhydritic, finely crystalline, sucrosic, scattered porosity, no shows, 12 unit kick.
- 1195-1220' Dolomite; as above, plus white to gray dolomitic limestone, no shows.

WINFIELD SECTION

- 1222-1240' Dolomite; tan to beige, finely crystalline, few sucrosic, fair pinpoint to intercrystalline porosity, plus limestone, tan, dolomitic, no shows.

TOWANDA SECTION

- 1277-1314' Limestone; tan, dolomitic-highly dolomitic, fair intercrystalline porosity, no shows.

FT. RILEY THROUGH GRAND HAVEN SECTION

- 1321-1960' There were several zones of well developed porosity encountered in the Ft. Riley through Grand Haven sections, see Hydrocarbon Mud Logging Inc., Gas Mud Log.

1ST TARKIO SAND SECTION

- 1966-1980' Sand; gray, very fine grained, micaceous, shaley, few friable, poorly developed, no shows.

SEVERY SECTION

- 2324-2361' Trace sand; gray, very fine grained, highly shaley, plus silty shale. _____

TOPEKA SECTION

- 2361-2375' Limestone; gray to white and tan, finely crystalline, slightly fossiliferous, no shows.
- 2390-2399' Limestone; tan, granular, slightly dolomitic, no shows.
- 2426-2448' Limestone; as above, no shows.

- 2926-2933' Limestone; tan, fossiliferous, slightly cherty, no shows.
- 2940-2948' Limestone; gray, oolitic, chalky, no shows.
- 2970-2982' Limestone; gray and white, fossiliferous/oolitic, chalky, poorly developed porosity, no shows.
- 3004-3014' Limestone; gray to white, oolitic, sub oocastic, chalky, scattered porosity, no shows.
- 3028-3036' Limestone; as above, plus gray, fossiliferous, chalky limestone; no shows.
- 3050-3056' Limestone; tan, fossiliferous in part, slightly cherty, no shows.

CONGLOMERATE SECTION

- 3100-3118' Limestone; white and tan, finely crystalline, slightly dolomitic, trace maroon green shale, scattered iron pyrite and white chert.

SHALEY CONGLOMERATE SECTION

- 3118-3155' Shale; gray, pinkish, soft silty shale, plus brick red shale and gray to white, boney chert, no shows.

MAQUOKETA SECTION

- 3155-3228' Varied colored dolomitic shale; scattered white, chalky/dolomitic limestone, no shows.

VIOLA SECTION

- 3228-3250' Limestone; white, fine and medium crystalline, chalky, trace gray and white chert.
- 3250-3270' Limestone; as above.
- 3270-3290' Limestone and Chert; as above.

SIMPSON SECTION

- 3294-3301' Sand; clear to white, frosted in some, quartzitic, sub rounded to sub angular, fair intergranular porosity, friable, no shows.
- 3304-3310' Sand; white to clear, quartzitic, medium to coarse grained, sub rounded to sub angular, calcareous in part, abundant iron pyrite, spotty light brown stain, trace of free oil and no odor in fresh samples. No gas kick or show.
- 3338-3342' Sand; white, clean, very fine grained, quartzitic, fair porosity, no shows.

ARBUCKLE SECTION

- 3342-3350' Dolomite; tan and brown, finely crystalline to sucrosic, poor visible porosity, plus gray, dolomite, cherty and dense.
- 3350-3358' Dolomite; as above, pink and tan and gray, fine to medium crystalline, no shows.

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- 3358-3370' Dolomite; as above, plus trace white boney chert, increase porosity trace golden yellow fluorescence, no stain, no free oil, no odor, no gas kick.

- 3370-3392' Dolomite; tan, medium crystalline, good intercrystalline porosity, questionable stain on few pieces, fair to good bright fluorescence, no stain, no show of free oil, no odor and no gas kick.

Rotary Total Depth 3392 (-1693)

Recommendations:

On the basis of the low structural position and there being no other zones worthy of any further testing, it was recommended by all parties involved that the Ashley #1 be plugged and abandoned at the Rotary Total Depth of 3392 (-1693).

Respectfully submitted,



James C. Musgrove
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