15-163-02834-00-00

GEOLOGICAL REPORT

WELL 2 LEASE ~~Colahan~~ Colohan KCC ZAP LOCATION C S/2 S/2 NE/4 Sec. 10-9S-20W, Rooks Co., Ks.

FRANCIS WHISLER
CONSULTING GEOLOGIST
RUSSELL, KANSAS

OPERATOR: Harold Krueger
Natoma, Kansas

CONTRACTOR: Red Tiger Drilling Co.
Rig #2
Wichita, Kansas

ELEVATION: Loughlin-Simmons Co.

Derrick Floor: 2020'
Kelly Bushing: 2023'

All measurements shown in this report are taken from K. B.

SAMPLES: 10' samples from 2050' to 3050'
5' samples from 3050' to 3460', RTD.

All samples were examined, described, and will be sent to the Kansas Sample Library at Wichita, Kansas.

DRILLING TIME: 1' intervals from 2050' to 3460', RTD.

A copy of the drilling time is included with this report.

COMMENCED: Nov. 7, 1963

COMPLETED: Nov. 14, 1963

RECEIVED
STATE CORPORATION COMMISSION
JUN 27 1978
CONSERVATION DIVISION
Wichita, Kansas
6/27/78

CASING RECORD: 215' of 8 5/8" surface casing
3450' of 4 1/2" production casing, cemented with 200 sacks.

STATUS: Producer

IS-163-02834-80-00

[illegible]:

2350-60: 1 1 1 1 1 2 1 2 2 2
70: 1 2 2 2 2 4 6 2 3 3
80: 3 3 4 4 1 1 [illegible] 1 2
90: 3 2 2 1 2 2 1 1 2 2
00: 2 1 2 2 1 5 5 6 5 5

2900-10: 6 7 7 6 5 5 4 3 4 6
20: 6 7 6 7 7 7 6 7 4 5
30: 5 5 5 5 5 4 6 6 6 7
40: 6 6 7 6 6 4 [illegible] 7 5 4
50: 3 3 3 4 5 6 6 6 6 7

2950-60: 6 7 8 3 3 3 3 4 4 trip 2953
70: 3 3 4 2 3 3 3 3 3
80: 4 3 3 2 3 2 2 2 4 3
90: 4 2 2 2 3 1 1 1 1 lost circ
00: 2 2 2 3 2 3 3 4 4 2

3000-10: 3 2 1 2 1 2 1 2 2 2
20: 2 5 5 5 4 2 3 2 2 3
30: 5 6 6 7 6 5 3 5 3 5
40: 6 7 7 7 8 5 5 5 7 7
50: 3 3 3 2 4 3 3 7 7 5

3050-60: 4 3 3 4 6 4 3 4 3 3
70: 4 3 4 5 4 6 5 7 7 6
80: 6 7 6 5 7 7 6 6 7 5
90: 2 2 3 4 3 4 4 4 3 5
00: 5 6 4 6 6 5 6 5 7 6

3100-10: 7 6 6 6 6 7 7 6 5 6
20: 6 7 6 7 6 6 6 2 3 3
30: 7 7 9 7 6 5 3 4 3 4
40: 3 3 3 7 8 4 5 6 8 9
50: 7 7 9 6 7 6 9 9 7 6

3150-60: 6 8 7 4 5 4 4 6 11 6
70: 10 5 4 5 5 8 8 10 8 11
80: 10 9 8 9 6 9 7 6 10 9
90: 8 7 5 9 5 6 4 5 5 4
00: 4 3 5 3 7 9 6 4 9 8

3200-10: 10-10 8 10 10 10 10 9 8 6
20: 4 4 3 3 4 7 7 6 7 5
30: 6 5 7 7 9 2 6 5 5 5 trip 3225
40: 3 4 5 3 4 3 7 2 2 4
50: 5 5 4 3 5 3 6 5 3 5

3250-60: 5 3 7 7 7 7 6 6 3 5 circ @ 3260
3 3 7 5 5 7 7 7 6 6 circ @ 3270
6 5 6 7 6 6 7 6 6 7
6 6 5 5 4 9 7 10 4 2
3 3 2 4 5 7 8 8 7 7

3300-10: 6 5 4 9 9 11 9 9 9 7
20: 5 11 6 3 4 8 7 7 5 9
30: 9 7 6 6 8 10 8 6 6 6
40: 8 10 6 4 5 3 5 4 3 6
50: 8 7 10 5 6 4 5 4 6 8

3350-60: 9 6 8 6 5 3 5 4 7 5
70: 7 5 5 6 5 6 8 9 9 10
80: 12 12 12 12 10 11 9 10 10 13
90: 14 11 6 4 8 5 10 6 8 6
00: 10 7 12 12 8 8 11 14 12 12

3400-10: 11 10 10 7 6 5 6 5 5 5
20: 5 5 4 5 5 10 10 9 7 4
30: 5 5 8 10 9 5 5 4 3 5
40: 5 8 7 7 6 7 6 5 5 10 trip 3433
50: 8 4 7 8 8 9 6 4 3 3 circ 3444 @ 3450

3450-60: 6 8 10 9 7 8 5 6 4 3 circ 3454 @ 3460

15-163-02834-00-00

FORMATION TOPS:

Anhydrite:	1260	(+ 763)
Topeka Lime:	2895	(- 872)
Heebner Shale:	3115	(-1092)
Toronto Lime:	3135	(-1112)
Lansing-Kansas City:	3157	(-1134)
Base of Kansas City:	3403	(-1380)
Arbuckle Dolomite:	3456	(-1433)
Total Depth:	3460	(-1437)
Producing [illegible]:	[illegible]	(-[illegible])

[illegible]:

Topeka Lime:

3080-85: Ls; buff, white, fxl., and chalky with rare spotty saturation. Fair porosity. Not commercial.

3090-89: Ls; white, buff, fxl., and chalky with rare spotty saturation and fair porosity. Not commercial.

Toronto Lime:

3135-42: Ls; white, light gray, dense to chalky with trace of light saturation. Not commercial.

Lansing-Kansas City:

3157-61: Ls; white, light gray, partly oolitic with some stain and saturation, and trace of free oil. Perforate.

3167-70: Ls; white, cream, fine crystalline and partly oolitic with spotty saturation and trace of free oil. [illegible] porosity [illegible], perforate.

3180-83: Ls; white, fine crystalline with trace of [illegible].
Perforate.

3193-00: Ls; white, cream, light gray and partly oolitic with spotty saturation, and trace of free oil. Perforate [illegible] log.

3215-27: Ls; white, fine crystalline and partly oolitic with spotty oil saturation. Trace of free oil. Perforate best porosity from log.

3239-42: Ls; white, light gray, fine crystalline, cherty with fair spotty oil staining. Perforate, [illegible] porosity present.

3251-59: Ls; white, fine oolitic and oolicastic, and slight chalky with fair oil saturation and free oil. Fair visible porosity. [illegible] porosity. Perforate.

3263-68: Ls; [illegible], slight chalky with scattered oil [illegible]. Fair porosity. [illegible] porosity. Perforate.

3319-30: Ls; white, cream, fine crystalline [illegible] slight oolicastic and fossil. Trace of light oil stain and [illegible]. No free oil. Good porosity. Perforate.

3337-40: Ls; white, cream, [illegible] fossil., and some fine oolicastic porosity. [illegible] oil. Perforate.

3366-74: Ls; white, tan, fine crystalline and dense with scattered staining and trace of free oil. Perforate, [illegible].

3391-97: Ls; tan, fine crystalline, [illegible] partly oolitic with spotty dark oil stain. Poor visible porosity. Trace of free oil and faint odor. Perforate, [illegible] porosity.

15-163-02834-00-00

Arbuckle Dolomite:

3456-60: Lol; white, buff, tan, fine crystalline with scattered dark and live oil stain, and poor to fair saturation. No odor, and fair visible porosity. Complete in open hole.

[illegible] AND RECOMMENDATION:

The following table compares the Colahan A-2 with the Colahan A-1 and the Dougherty B-3.

	Colahan A-2	Colahan A-1	Dougherty B-3
Topeka	-972	-[illegible]67	-960
Toebner	-1092	-1135	-1079
Lansing	[illegible]	-1127	-1120
Arbuckle	[illegible]	-1149	-1116
PBD	-1157	-1145	-1122

The Colahan A-2 ran lower, structurally, than the Colahan A-1 and the Dougherty B-3, but commercial shows of oil did occur. The zones to be tested through perforations are set out under "[illegible] description".

A Gamma Ray-Neutron-Collar log should be run prior to perforating the Lansing-Kansas City zones, and all perforating should be done from collar measurements.

Respectfully submitted,

Francis Whisler

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