

GEOLOGICAL REPORT



Dan A. Nixon

7-5-21W *Just*

PETROLEUM GEOLOGIST

#4

LOCATION

SE NW SE of Section 7, T5S-R21W Norton Co.

LEASE Glenn

Operator: R.P. Nixon Operations
207 West 12th
Hays, Kansas 67601

Contractor: Jay-Lan Corp. Rig #3
207 West 12th
Hays, Kansas 67601

Elevation: Laughlin-Simmons & Co.
Rotary Bushing: 2077'
Ground level: 2070'
All measurements are from
the rotary bushing.

Samples: Ten foot samples from 2900'
to 3200', and five foot samples
from 3200' to 3535' RTD.

Time Log: One foot intervals from 2900'
to 3535' RTD. A copy of the
time log is included in this
report.

Surface casing: 8 5/8" @ 214'
Prod. casing: 4 1/2" @ 3534' w/125 sx common
plus 10% salt

Spud date: 4-9-84
Comp. date: 4-14-84

API# 15-137-20,336

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FORMATION TOPS:	SAMPLE DEPTH	LOG DEPTH	MINUS DATUM
Anhydrite top (driller's)	1671'	1671'	+406
Anhydrite base "	1702'	1702'	+375
Topeka Lime	2958'	2957'	-880
Heebner Shale	3221'	3219'	-1142
Toronto Lime	3255'	3249'	-1172
Lansing	3267'	3265'	-1188
Base of the Kansas City	3453'	3448'	-1371
Total Depth	3535'	3535'	-1458

SAMPLE ANALYSIS OF ZONES OF INTEREST: (corrected to the log)

Lansing	3318'-23'	Dense, fossiliferous, white lime, rare spotty stain, no show of free oil or odor.
	3346'-52'	Fossiliferous, buff, white lime, fair fossil porosity, rare and spotty stain. Calculated high in water saturation on log.
	3378'-62'	Vuggy, white lime, rare to spotty stain, fair vuggy porosity, slight show of free oil and odor. This zone produces in the area. Test this zone.
	3410'-12'	Fine crystalline, dense, white lime, rare spotty stain. No show of free oil or odor. Calculated high in water saturation on log.
	3431'-34'	Fossiliferous, saturated lime, fair fossiliferous porosity, good show of free oil and odor in wet samples. Test this zone.

REMARKS:

Structurally, the Lansing top on the #4 Glenn ran 9' low to the #2 Glenn, the producer to the northwest approximately 1/3 mile. Reagan Sand, which produces in the area, was not encountered in the #4 Glenn. The minus datum on the #2 Glenn Reagan Sand top is -1421. Total depth minus datum on the #4 Glenn is -1458, well below being capable of producing if encountered below this minus datum. Based on the electric log and good shows in the Kansas City, 4 1/2" casing was cemented at 3534' for further testing.

Respectfully Submitted,

Dan A. Nixon
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DRILLING TIME LOG

2900' - 2950'	2-2-2-1-1	2-3-3-3-2	3-3-3-2-2	2-2-4-3-2	3-3-2-3-3
	3-3-2-4-2	2-2-2-3-2	2-2-2-2-3	2-3-3-2-2	3-2-2-2-2
2950' - 3000'	2-2-2-1-2	2-2-2-3-3	2-3-3-3-2	3-3-3-3-3	3-3-4-3-4
	3-2-4-3-3	4-3-6-3-4	4-3-4-4-5	4-4-3-2-2	2-3-4-3-3
3000' - 3050'	5-2-4-3-2	2-1-4-4-4	3-2-3-3-3	2-3-2-3-2	1-3-2-3-3
	2-2-3-3-3	3-3-3-2-3	2-4-3-2-2	2-2-4-3-3	4-3-3-2-3
3050' - 3100'	1-1-2-2-3	3-2-3-2-1	3-4-3-4-3	2-3-2-3-2	2-3-3-3-3
	3-4-3-2-2	1-1-2-3-3	3-3-2-2-3	2-2-4-3-2	2-2-2-3-2
3100' - 3150'	2-2-2-2-4	3-3-4-4-4	3-5-4-4-4	2-4-3-2-2	3-1-1-1-1
	1-1-1-1-1	1-1-1-1-1	1-1-1-1-1	1-3-3-4-4	3-3-4-5-3
3150' - 3200'	2-2-2-2-3	5-5-5-6-4	5-5-5-4-3	3-3-3-5-5	4-6-6-3-4
	5-6-5-5-6	5-5-4-2-2	3-4-5-4-6	5-5-6-6-5	4-5-5-4-5
3200' - 3250'	5-4-5-5-5	5-4-4-5-4	6-4-5-4-5	4-3-5-4-4	5-2-2-2-3
	5-5-3-3-3	3-3-5-5-6	5-5-4-5-4	5-2-3-4-4	3-4-4-3-4
3250' - 3300'	4-4-4-3-4	5-5-5-5-5	4-4-4-3-4	4-4-5-5-4	4-5-4-5-4
	5-5-4-3-4	5-5-5-5-5	5-5-6-5-5	5-4-4-4-4	3-4-4-3-4
3300' - 3350'	4-4-3-3-4	5-4-5-5-4	5-5-4-4-3	3-3-3-3-4	4-4-5-5-5
	6-5-6-5-5	5-5-5-4-3	5-6-3-4-5	4-3-4-4-4	4-2-2-2-2
3350' - 3400'	1-2-2-3-2	4-3-4-4-5	4-5-5-5-6	5-4-5-6-6	4-4-2-3-5
	4-6-5-5-3	4-3-3-4-3	6-6-5-5-5	6-5-7-5-5	9-6-4-4-3
3400' - 3450'	3-6-1-4-3	3-3-3-3-4	3-3-3-2-4	4-3-4-4-4	4-4-3-3-3
	5-5-5-6-5	4-4-4-4-3	4-5-6-7-4	4-3-3-4-5	4-4-5-5-6
3450' - 3500'	7-7-5-3-2	3-2-2-1-1	1-1-1-1-1	2-1-2-1-2	2-3-2-3-4
	5-5-5-5-3	3-2-3-3-2	3-3-4-4-4	4-4-6-5-5	4-4-6-6-6
3500' - 3535'	5-4-4-5-5	5-5-5-5-5	5-5-5-5-6	5-5-6-6-4	4-4-4-5-3
	4-4-3-3-4	4-3-4-4-5	3535' RTD		

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