GEOLOGICAL REPORT

Petroleum, Inc.
LUPTON 'A' #1
SE SE SE 21-31S-1W
Sumner County, Kansas

Elevation: 1266' GL
1268' DF
1271' RB

GENERAL:

Contractor: Fleming & Woodman, Wichita, Kansas
Drilling Commenced: December 5, 1955
Drilling Completed: December 19, 1955
Casing: 8-5/8" @ 385' w/300 sax
Samples Saved: 1900' to 3724' RTD
Drilling Time: 1900' to 3724' RTD

GEOLOGICAL TOPS, SHOWS OF OIL, AND OTHER PERTINENT DATA:

Halliburton Electric Log was run on this hole from surface to RTD.

	Sample Tops	Halliburton Log Tops
Severy Sand:	1933 (- 662)	1934 (- 663)
Topeka Lime:	1971 (- 700)	1968 (- 697)

2004-22

Limestone, white, fine to medium crystalline, fossiliferous, poor to fair pin-point porosity, no show of oil

2022-46

Limestone, cream to white, fine crystalline, slightly granular, fossiliferous, poor to fair porosity, no show of oil

2184-90

Limestone, tan, fine crystalline, fair pin-point porosity, fossiliferous, no show of oil

2196-2202

Limestone, tan, fine to medium crystalline, fossiliferous, good pin-point porosity, no show of oil

2237-46

Limestone, cream, fine to medium crystalline, slightly chalky, poor to fair pin-point to vugular porosity, no show of oil

2248-52

Limestone, medium crystalline, dolomitic, tan, good inter-granular and vugular porosity, no show of oil

2274-78

Limestone, medium crystalline, dolomitic, tan, fossiliferous, poor to fair pin-point porosity, no show of oil

2280-84

Limestone, white, fine to medium crystalline, fair vugular porosity, with spotted asphaltic stain

2342-46

Limestone, tan to buff, fine crystalline, fossiliferous, poor pin-point porosity, no show of oil

Hesbner Shale:	2360 (-1089)	2359 (-1088)
Toronto Lime:	2391 (-1120)	2392 (-1121)

2418-24

Limestone, cream, fine to medium crystalline, fossiliferous, good vugular porosity, no show of oil

Douglas Shale:	2430 (-1159)	2427 (-1156)
Douglas Sand:	2436 (-1165)	2434 (-1163)

2436-46

Sand, very fine grain, micaceous, angular, slightly calcareous, poor porosity, no show of oil

2446-52

Sand, fine to medium grained, angular, micaceous, fair porosity, no show of oil

2466-72

Sand, fine grained, angular, micaceous, poor to fair porosity, no show of oil

2524-30

Sand, fine grained, angular, micaceous, calcareous, very poor porosity, no show of oil

2562-78

Sand, fine grained, calcareous, angular, very poor porosity, no show of oil

Brown Lime:	2683 (-1412)	2684 (-1413)
Stalnaker Sand:	2691 (-1420)	2692 (-1421)

2691-2716

Sand, medium grained, angular, clear, slightly micaceous, good porosity, no show of oil

2716-32

Sand, fine grained, brown, angular, slightly shaly, poor to fair porosity, no show of oil

2732-42

Sand, fine to medium grained, angular, clear, fair to good porosity, no show of oil

2742-56

Sand, fine grained, shaly, white, poor to fair porosity, no show of oil

2756-72

Sand, fine to medium grained, angular, clear, fair to good porosity, no show of oil

2772-2806

Sand, medium grained, very angular, good to excellent porosity, no show of oil

Base Stalnaker Sand:	2806 (-1535)	2808 (-1537)
Kansas City Lime:	3035 (-1764)	3034 (-1763)

3034-40

Limestone, fine crystalline, tan, fossiliferous, poor to fair pin-point to vugular porosity, no show

3050-56

Limestone, tan, fine crystalline, poor pin-point porosity, no show of oil

3064-85

Limestone, tan to buff, fine crystalline, granular, poor inter-granular porosity, with trace of poor vugular porosity, no show of oil, with white opaque chert

3095-3104

Limestone, fine to medium crystalline, tan, good pin-point porosity, no show of oil

3115-19

Limestone, fine to medium crystalline, fossiliferous, tan, good pin-point porosity, no show of oil

3123-28

Limestone, tan, fine crystalline, slightly chalky, with tan opaque chert, poor pin-point porosity, no show of oil

3134-40

Limestone, fine crystalline, tan, poor pin-point porosity, no show of oil

3154-60

Limestone, medium crystalline, tan, poor pin-point porosity, no show of oil

3182-86

Limestone, dense to fine crystalline, tan to brown, oolitic, poor inter-oolitic porosity, no show of oil

Base Kansas City:	3269 (-1998)	3269 (-1998)
Checkerboard Lime:	3300 (-2029)	3306 (-2035)
Cleveland Sand:	3322 (-2051)	3322 (-2051)

3322-34

Sand, fine grained, friable, angular, with glauconite specks, poor to fair porosity, no show of oil

Lenapah Lime:	3363 (-2092)	3362 (-2091)
Altamont Lime:	3381 (-2110)	3380 (-2109)
Pawnee Lime:	3395 (-2124)	3398 (-2127)
Ft. Scott Lime:	3450 (-2179)	3452 (-2181)
Cherokee Shale:	3498 (-2227)	3500 (-2229)
Mississippian:	3673 (-2402)	3674 (-2403)

3700-3708

Limestone, fine crystalline, very dense, gray to tan, with trace of fine crystalline tan dolomite, very poor inter-granular porosity with light spotted stain

3714-24

Limestone, fine crystalline, with smoky tan chert, fractured porosity, with trace of fine crystalline dolomite, gray, and shaly

DST # 1, 3682-3724

Open 1 hour and 1/2, recovered 265' mud, 780' muddy salt water, BHP 1550#/30 minutes

RTD 3724'

D & A

Joseph E. Moreland, Jr.

JEM/mkr

DRILLING TIME

Elevation: 1271' RB

Petroleum, Inc.
LUPTON 'A' # 1
SE SE SE 21-31-1W
Sumner County, Kansas

All measurements were taken from top of rotary bushing.

From - To	
1900-1910	3-3-4-4-3-4-7-11-7-2
10- 20	2-3-2-4-3-2-3-3-3-3
20- 30	3-3-4-2-3-10-15-9-7-8
30- 40	8-8-9-2-2-2-3-2-2-1
40- 50	2-2-1-3-4-4-2-2-2-2
50- 60	2-2-3-2-2-3-2-2-3-2
60- 70	3-2-2-3-2-2-3-3-2-3
70- 80	6-8-8-7-6-7-7-6-6-5
80- 90	5-4-7-7-7-7-8-5-5-5
1990-2000	3-2-3-2-2-3-12-3-2-2

Trip @ 1997

2000-2010	2-2-5-5-3-2-2-2-3-3
10- 20	4-2-2-3-3-2-1-2-2-2
20- 30	2-3-2-2-2-2-2-2-1-2
30- 40	2-2-2-2-2-1-2-2-2-2
40- 50	2-2-2-2-1-2-2-3-2-1
50- 60	2-2-2-2-2-3-3-2-3-2
60- 70	3-3-2-3-3-4-4-4-4-3
70- 80	3-3-3-2-2-3-2-2-2-2
80- 90	2-3-3-2-2-3-2-2-1-2
2090-2100	1-1-1-1-1-2-2-2-2-2

2100-2110	2-2-2-3-3-4-4-4-4-3
10- 20	2-2-4-3-3-3-3-4-4-4
20- 30	3-3-3-4-4-4-5-3-3-3
30- 40	4-3-3-5-5-5-5-5-5-6
40- 50	5-6-6-5-4-5-5-4-4-4
50- 60	5-5-4-5-4-3-3-5-4-2
60- 70	2-1-1-2-2-2-4-4-5-3
70- 80	2-1-2-1-2-2-2-1-2-2
80- 90	2-1-2-2-1-2-1-2-3-2
2190-2200	3-4-3-3-3-3-2-2-1-2

2200-2210	2-3-3-3-3-4-3-3-2-3
10- 20	4-3-2-3-4-3-3-3-4-3
20- 30	4-3-4-3-3-3-3-3-2-2
30- 40	3-2-3-2-2-2-3-2-1-2
2240-2250	1-2-2-3-2-3-3-2-1-1

2250-2260	2-4-3-3-4-3-3-4-2-3
60- 70	3-5-4-3-4-3-5-7-7-3
70- 80	7-5-6-6-4-2-3-3-4-5
80- 90	3-3-3-3-4-5-4-3-3-3
2290-2300	4-4-4-5-4-4-6-6-5-6
2300-2310	6-5-5-7-7-6-6-6-5-6
10- 20	7-6-7-7-8-8-7-6-9-8
20- 30	6-6-5-4-3-4-6-5-3-3
30- 40	4-3-3-5-4-3-7-8-6-6
40- 50	6-5-5-5-5-7-5-6-7-7
50- 60	5-7-5-3-4-4-3-3-4-3
60- 70	2-3-2-2-3-2-2-2-3-3
70- 80	3-2-5-5-8-3-3-3-8-7
80- 90	6-6-6-5-5-5-4-3-3-2
2390-2400	2-5-5-6-6-3-4-3-4-5
2400-2410	4-3-4-4-3-3-5-5-5-6
10- 20	8-5-4-4-3-3-5-5-3-3
20- 30	3-2-3-5-4-3-4-3-4-4
30- 40	3-3-3-3-4-3-3-3-3-3
40- 50	3-3-3-3-3-3-2-1-1-3
50- 60	3-3-4-4-4-4-4-4-4-4
60- 70	4-4-4-4-4-4-4-3-2-3
70- 80	4-4-5-7-5-6-5-5-4-4
80- 90	2-2-2-2-3-2-3-2-3-2
2490-2500	2-2-3-3-3-2-2-3-4-3
2500-2510	4-3-4-3-4-4-4-4-5-5
10- 20	4-5-4-5-4-4-5-4-4-4
20- 30	5-4-4-5-3-4-3-4-4-3
30- 40	5-4-4-3-4-3-4-4-4-3
40- 50	4-4-3-4-3-4-3-4-4-3
50- 60	4-3-5-3-4-4-5-4-4-5
60- 70	5-4-5-6-6-5-5-4-4-5
70- 80	4-5-5-5-4-5-4-4-4-6
80- 90	5-6-5-6-5-5-6-6-6-11
2590-2600	4-3-3-3-3-3-4-2-4-3

Trip @ 2590

From - To	
2600-2610	2-2-3-3-2-2-3-3-2-3
10- 20	3-2-2-3-3-3-2-3-2-3
20- 30	3-3-3-3-3-3-3-3-4-3
30- 40	2-3-2-2-3-2-4-2-3-3
40- 50	2-3-3-3-2-3-3-3-3-3
50- 60	3-3-4-3-2-3-3-3-3-2
60- 70	2-3-2-3-2-3-2-2-3-2
70- 80	3-2-2-2-3-2-2-3-2-3
80- 90	2-3-2-4-7-3-4-3-2-4
2690-2700	3-2-3-1-2-1-2-1-1-1
2700-2710	2-1-1-2-1-1-2-1-1-2
10- 20	1-1-2-1-2-3-1-2-2-1
20- 30	2-2-1-1-1-2-1-1-2-1
30- 40	2-1-1-1-1-2-1-2-1-1
40- 50	2-1-2-2-2-3-1-2-1-2
50- 60	1-2-2-2-1-1-2-1-1-1
60- 70	1-2-2-2-2-2-1-1-1-1
70- 80	2-2-1-1-1-1-1-1-2-1
80- 90	1-2-1-1-1-1-1-1-1-1
2790-2800	1-1-1-1-1-1-1-1-1-1
2800-2810	1-2-1-1-1-2-2-4-4-5
10- 20	5-4-4-4-5-4-4-4-4-5
20- 30	5-5-5-5-5-5-4-5-5-5
30- 40	6-6-5-6-5-6-6-5-5-5
40- 50	5-5-5-5-5-5-5-5-4-4
50- 60	4-5-5-5-5-5-6-7-7-6
60- 70	6-6-5-6-5-5-6-5-5-6
70- 80	6-6-7-6-5-6-5-5-4-5
80- 90	5-7-6-5-5-5-6-6-6-6
2890-2900	6-6-5-6-7-6-6-6-6-5
2900-2910	5-5-8-7-8-8-6-8-7-6
10- 20	5-5-5-5-5-5-5-5-5-5
20- 30	6-5-6-5-5-5-6-5-5-5
30- 40	6-6-5-6-5-7-6-6-6-5
40- 50	6-7-5-6-8-8-6-7-7-6

2960-2970	7-6-7-7-7-7-7-7-8-7	
2970-2980	8-7-8-8-8-9-8-9-8-8	
2980-2990	6-7-7-8-7-7-7-7-7-8	
2990-3000	7-7-6-7-7-7-7-7-8-8	
2990-3000	7-8-8-9-7-7-8-7-9-9	
3000-3010	10-7-5-10-5-5-5-6-6-7	
3010-3020	5-7-7-6-7-6-7-6-7-7	
3020-3030	6-6-6-6-6-7-8-8-8-7	
3030-3040	6-6-5-6-5-6-3-3-3-6	
3040-3050	8-10-6-5-5-5-7-5-5-6	
3050-3060	5-6-6-7-8-8-9-5-3-4	
3060-3070	3-3-3-3-4-3-3-3-3-3	
3070-3080	4-3-3-4-4-3-4-4-4-4	
3080-3090	5-4-4-5-7-7-7-6-8-12	
3090-3100	8-6-5-4-6-7-5-5-6-6	Trip @ 3096
3100-3110	3-4-5-6-5-6-6-5-6-6	
3110-3120	8-7-7-6-5-3-3-3-6-5	
3120-3130	5-5-4-4-4-5-6-6-7-12	
3130-3140	11-10-8-5-6-6-7-6-6-9	
3140-3150	8-8-12-15-14-14-13-15-16-16-13	
3150-3160	14-14-9-9-10-9-7-8-9-12	
3160-3170	10-10-8-14-14-18-13-5-19-20	
3170-3180	20-14-16-17-18-16-19-8-11-15	
3180-3190	13-14-10-9-6-8-13-10-13-10	
3190-3200	11-12-12-10-10-6-6-15-15-12	
3200-3210	8-12-16-14-16-15-10-13-15-15	
3210-3220	15-15-11-12-10-6-6-11-12-9	
3220-3230	6-10-8-8-5-9-11-10-15-16	
3230-3240	18-13-14-14-14-15-16-15-16-16	
3240-3250	14-18-14-16-15-15-15-14-16-16	Trip @ 3250
3250-3260	6-7-8-6-7-6-7-7-6-7	
3260-3270	6-6-7-6-6-5-7-7-5-5	
3270-3280	5-5-4-4-6-5-8-6-5-5	
3280-3290	6-6-6-6-5-6-5-5-5-5	
3290-3300	5-5-5-5-4-5-5-4-4-3	

Petroleum, Inc.
Drilling Time
LUPTON 'A' # 1
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From - To		
3300-3310	6-6-6-6-6-5-5-7-7-5	
10- 20	7-8-8-9-5-5-5-5-5-6	
20- 30	5-5-2-2-1-2-2-2-1-2	
30- 40	2-1-5-3-3-4-5-3-4-5	Circ. @ 3340
40- 50	5-4-5-5-5-4-5-5-5-5	
50- 60	5-5-4-4-5-5-5-5-5-5	
60- 70	5-4-4-5-5-6-6-7-7-6	
70- 80	6-6-6-5-5-5-5-5-5-5	
80- 90	5-6-6-5-5-4-5-5-5-5	
3390-3400	5-6-6-6-5-6-7-7-6-8	
3400-3410	8-8-8-7-7-5-6-7-6-5	
10- 20	5-7-6-7-6-6-5-8-9-8	
20- 30	8-9-6-4-3-2-7-8-8-8	
30- 40	8-7-10-9-12-11-7-11-8-7	
40- 50	4-4-5-4-6-7-5-4-2-2	
50- 60	4-4-5-5-3-5-6-8-7-8	
60- 70	8-10-11-11-11-10-8-6-5-5	
70- 80	4-5-5-6-6-6-5-5-3-4	
80- 90	4-4-4-5-4-4-4-5-6-8	
3490-3500	10-9-7-8-8-7-7-9-6-6	
3500-3510	5-6-7-6-8-2-4-8-7-6	
10- 20	6-6-7-7-6-6-6-7-8-8	
20- 30	12-10-9-9-9-10-7-7-6-6	Trip @ 3526
30- 40	6-6-5-5-5-5-5-5-5-5	
40- 50	7-7-6-6-7-6-6-8-8-6	
50- 60	5-3-3-7-7-8-7-7-5-5	
60- 70	4-4-5-5-4-4-5-6-6-5	
70- 80	5-5-5-5-7-6-5-5-7-7	
80- 90	5-5-6-4-2-2-5-6-6-4	
3590-3600	6-7-8-6-7-6-7-5-5-7	
3600-3610	6-6-5-6-6-7-6-4-2-7	
10- 20	6-7-7-4-5-4-6-4-5-5	
20- 30	5-8-9-8-6-7-7-7-3-4	
30- 40	5-7-6-5-6-5-7-8-9-10	
3640-3650	9-7-8-6-6-6-6-6-8-9	

Petroleum, Inc.
Drilling Time
LUPTON 'A' # 1
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From - To

365 -366	9-10-11-9-9-8-11-10-7
60- 70	10-9-9-10-10-10-11-10-11-1
70- 80	7-10-9-11-16-10-19-22-19-20
80- 90	16-20-18-21-22-18-21-15-15-15
3690-3700	13-14-13-13-14-15-14-13-15-15
3700-3710	14-12-15-15-14-12-14-12-11-15
10- 20	15-15-16-15-15-23-30-16-9-35
3720-3724	24-16-10-11

Lost Circ. @ 3715 & @ 3722
Circ. @ 3724

RTD 3724