



# OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

September 19, 1979

Liberty Hill Oil Corporation  
Suite 1001  
4155 East Jewell Avenue  
Denver, Colorado 80222

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core samples taken from the Spur Ranch A Lease, Well No. 6, Chautauqua County, Kansas, and submitted to our laboratory on September 17, 1979.

These core samples were sealed in plastic bags by a representative of the client. In examining this core, it is assumed that each sample represents one foot of core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Benjamin R. Pearman*  
Benjamin R. Pearman

BRP:km  
5 c to Denver, Colorado

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION



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## LOG

Company Liberty Hill Oil Corporation Lease Spur Ranch A Well No. 6

<u>Depth Interval, Feet</u>	<u>Description</u>
1415.0 - 1416.0	Light brown sandstone.
1416.0 - 1419.0	Light brown slightly shaly sandstone.
1419.0 - 1420.0	Light brown sandstone.
1420.0 - 1421.0	Light brown slightly shaly sandstone.
1421.0 - 1424.0	Light brown slightly calcareous sandstone.
1435.0 - 1436.0	Light brown slightly calcareous sandstone.
1436.0 - 1439.0	Light brown sandstone.
1439.0 - 1443.0	Light brown calcareous sandstone.
1443.0 - 1444.0	Light brown slightly shaly sandstone.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE 1-B**

Company Liberty Hill Oil Corporation

Lease Spur Ranch A

Well No. 6

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	1415.5	18.2	22	57	311	25.5	1.0	1.0	311	25.00
2	1416.5	17.5	23	51	312	8.5	1.0	2.0	312	8.50
3	1417.5	17.0	20	57	264	9.7	1.0	3.0	264	9.70
4	1418.5	17.8	17	54	235	11.	1.0	4.0	235	11.00
5	1419.5	17.9	16	56	222	18.	1.0	5.0	222	18.00
6	1420.5	17.2	18	55	240	12.	1.0	6.0	240	12.00
7	1421.5	16.8	21	56	274	21.	1.0	7.0	274	21.00
8	1422.5	17.6	22	51	300	24.	1.0	8.0	300	24.00
9	1423.5	17.7	23	48	316	23.	1.0	9.0	316	23.00
10	1435.5	14.9	23	61	266	17.	1.0	10.0	266	17.00
11	1436.5	17.0	30	56	396	40.	1.0	11.0	396	40.00
12	1437.5	17.0	19	58	251	31.	1.0	12.0	251	31.00
13	1438.5	18.2	20	53	282	24.	1.0	13.0	282	24.00
14	1439.5	18.2	23	58	325	5.5	1.0	14.0	325	5.50
15	1440.5	15.3	24	56	285	5.7	1.0	15.0	285	5.70
16	1441.5	13.3	27	53	279	5.4	1.0	16.0	279	5.40
17	1442.5	21.0	35	36	570	5.7	1.0	17.0	570	5.70
18	1443.5	17.4	18	58	243	5.0	1.0	18.0	243	5.00

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Spur Ranch A	Well No.	
Liberty Hill Oil Corporation			6	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
1415.0 - 1439.0	13.0	20.3	264.20	
1439.0 - 1444.0	5.0	5.5	27.30	
1415.0 - 1444.0	18.0	16.2	291.50	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
1415.0 - 1439.0	13.0	21.1	54.8	3,669
1439.0 - 1444.0	5.0	17.0	52.2	1,702
1415.0 - 1444.0	18.0	17.2	54.1	5,371