



OILFIELD RESEARCH LABORATORIES

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August 21, 1979

Nick Powell
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Gentlemen:

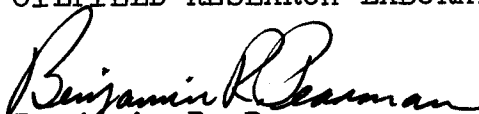
Enclosed herewith are the results of tests run on the rotary core taken from the Allen Lease, Well No. 1, Miami County, Kansas, and submitted to our laboratory on August 16, 1979.

This core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:cgb

2 c to Shawnee Mission, Kansas

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GENERAL INFORMATION & SUMMARY

Company Nick Powell Lease Allen Well No. 1

Location 110' FEL SE SE

Section 4 Twp. 17S Rge. 24E County Miami State Kansas

Name of Sand	Peru
Top of Core	427.0
Bottom of Core	453.0
Top of Sand	427.0
Bottom of Sand	445.8
Total Feet of Permeable Sand	13.3
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 10	2.7	2.7
40 - 100	2.0	4.7
100 - 200	2.7	7.4
200 - 600	1.8	9.2
600 - 700	2.1	11.3
700 & Above	2.0	13.3

Average Permeability Millidarcys	306.3
Average Percent Porosity	17.8
Average Percent Oil Saturation	36.6
Average Percent Water Saturation	47.7
Average Oil Content, Bbls./A. Ft.	492.
Total Oil Content, Bbls./Acre	6,545.
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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- LOG -

Company Nick Powell Lease Allen Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
427.0 - 428.9	Dark brown slightly calcareous sandstone.
428.9 - 430.4	Gray limestone.
430.4 - 432.1	Dark brown slightly calcareous sandstone.
432.1 - 432.8	Brown and gray laminated calcareous sandstone.
432.8 - 433.8	Gray limestone.
433.8 - 434.2	Gray laminated calcareous sandstone.
434.2 - 435.0	Gray limestone.
435.0 - 436.5	Dark brown slightly calcareous sandstone.
436.5 - 437.5	Gray sandy shale.
437.5 - 443.0	Dark brown slightly calcareous sandstone.
443.0 - 444.2	Brown very calcareous sandstone.
444.2 - 445.0	Gray limestone.
445.0 - 445.8	Brown very calcareous sandstone.
445.8 - 447.0	Gray slightly conglomeratic limestone.
447.0 - 450.5	Gray limestone.
450.5 - 451.0	Gray shale.
451.0 - 452.0	Dark shale.
452.0 - 453.0	Gray shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Nick Powell Lease Allen Well No. 1

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	Total			Ft.	Cum. Ft.		
1	427.5	20.6	40	30	70	639	107.	1.0	1.0	639	107.00
2	428.5	13.8	49	27	76	525	172.	0.9	1.9	473	154.80
3	430.5	8.4	41	48	89	267	276.	0.6	2.5	160	165.60
4	431.5	19.6	40	49	89	608	644.	1.1	3.6	669	708.40
5	432.4	11.5	47	47	94	419	2.3	0.7	4.3	293	1.61
6	435.2	20.5	49	25	74	779	195.	0.8	5.1	623	156.00
7	436.4	23.6	34	44	78	623	408.	0.7	5.8	436	285.60
8	437.8	25.7	40	34	74	798	589.	0.5	6.3	399	294.50
9	438.5	25.9	31	50	81	623	729.	1.0	7.3	623	729.00
10	439.5	25.0	25	60	85	485	99.	1.0	8.3	485	99.00
11	440.5	26.4	33	57	90	676	703.	1.0	9.3	676	703.00
12	441.5	11.1	45	42	87	388	41.	1.0	10.3	388	41.00
13	442.5	23.3	24	67	91	434	611.	1.0	11.3	434	611.00
14	443.5	6.6	27	61	88	138	9.6	1.2	12.5	166	11.52
15	445.5	3.7	35	59	94	101	6.5	0.8	13.3	81	5.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Nick Powell	Lease	Allen	Well No.	1
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
427.0 - 445.8	13.3	306.3	4073.23		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
427.0 - 445.8	13.3	17.8	36.6	47.7	6,545