

OILFIELD RESEARCH LABORATORIES

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

November 15, 1982

Prairie Energy Corporation
8600 W. 110th Street
Suite 202
Overland Park, Kansas 66210

Gentlemen:

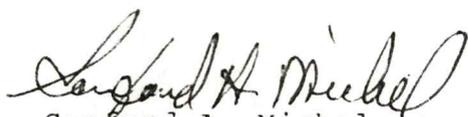
Enclosed herewith are the results of tests run on the rotary core taken from the Willsey Lease, Well No. 15-A, located in Johnson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on November 11, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/rmc

5 c to Overland Park, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company Prairie Energy Corporation Lease Willsey Well No. 15-A

Location _____

Section 13 Twp. 13S Rge. 24E County Johnson State Kansas

6-165/DRL

Elevation, Feet

Name of Sand.....	Squirrel
Top of Core	633.0
Bottom of Core	650.8
Top of Sand	639.0
Bottom of Sand	650.8
Total Feet of Permeable Sand	5.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 34	4.1	4.1
125 - 134	1.8	5.9

Average Permeability Millidarcys	49.1
Average Percent Porosity	20.8
Average Percent Oil Saturation	46.6
Average Percent Water Saturation.....	40.2
Average Oil Content, Bbls./A. Ft.....	772.
Total Oil Content, Bbls./Acre.....	4,556.

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LOGCompany Prairie Energy Corporation Lease Willsey Well No. 15-A

<u>Depth Interval, Feet</u>	<u>Description</u>
633.0 - 639.0	Gray shale.
639.0 - 640.0	Brown sandstone.
640.0 - 641.2	Brown sandstone with gray shale partings.
641.2 - 642.0	Brown sandstone.
642.0 - 646.1	Gray shale.
646.1 - 647.2	Brown sandstone.
647.2 - 647.4	Grayish brown very shaly sandstone.
647.4 - 647.8	Gray sandy shale.
647.8 - 649.2	Grayish brown shaly sandstone.
649.2 - 650.5	Brown sandstone with gray shale partings.
650.5 - 650.8	Gray and brown finely laminated shale and sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Prairie Energy Corporation Lease Willsey Well No. 15-A

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	639.5	25.0	59	27	86	1144	127.	1.0	1.0	1144	127.00
2	641.4	24.0	53	23	76	987	133.	0.8	1.8	790	106.40
3	646.5	21.2	58	27	85	954	33.	1.1	2.9	1049	36.30
4	648.3	17.6	35	58	93	478	1.1	1.4	4.3	669	1.54
5	649.4	19.7	38	49	87	581	13.	1.3	5.6	755	16.90
6	650.6	17.3	37	58	95	497	4.5	0.3	5.9	149	1.35

$h = 2'$
 $\phi = .245$
 $S_w = .25$

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Prairie Energy Corporation Lease Willsey Well No. 15-A

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
639.0 - 650.8	5.9	49.1	289.49

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
639.0 - 650.8	5.9	20.8	46.6	40.2	772	4,556

