



OILFIELD RESEARCH LABORATORIES

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

October 22, 1979

Kanalta Resources, Ltd.
Box 112
Bronson, Kansas 66716

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Rausch Lease, Well No. 15, Woodson County, Kansas, and submitted to our laboratory on October 9, 1979.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

SAM:km
5 c to Bronson, Kansas

T245, R15E, Sec. 13

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company Kanalta Resources, Ltd. Lease Rausch Well No. 15

Location _____

Section _____ Twp _____ Rge _____ County Woodson State Kansas

Name of Sand	- - - - -	Squirrel
Top of Core	- - - - -	1096.0
Bottom of Core	- - - - -	1113.4
Top of Sand	- - - - -	1096.4
Bottom of Sand	- - - - -	1111.9
Total Feet of Permeable Sand	- - - - -	11.0
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	1.6	1.6
10 - 50	5.6	7.2
50 - 100	3.2	10.4
100 - 150	0.6	11.0

Average Permeability Millidarcys	- - - - -	47.2
Average Percent Porosity	- - - - -	18.3
Average Percent Oil Saturation	- - - - -	48.8
Average Percent Water Saturation	- - - - -	26.5
Average Oil Content, Bbls./A. Ft.	- - - - -	698.
Total Oil Content, Bbls./Acre	- - - - -	3,681.
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 Kanalta Resources, Ltd. Lease Rausch Well No. 15

<u>Depth Interval, Feet</u>	<u>Description</u>
1096.0 - 1096.4	Gray sandy shale.
1096.4 - 1096.7	Brown very shaly sandstone.
1096.7 - 1097.3	Gray sandy shale.
1097.3 - 1097.7	Brown and gray laminated sandstone and shale.
1097.7 - 1099.5	Gray calcareous sandy shale.
1099.5 - 1099.9	Light brown and gray laminated sandstone and shale.
1099.9 - 1100.5	Gray sandy shale.
1100.5 - 1100.9	Brown slightly shaly sandstone.
1100.9 - 1101.4	Gray sandy shale.
1101.4 - 1103.2	Brown sandstone.
1103.2 - 1103.5	Gray sandy shale.
1103.5 - 1104.5	Brown sandstone.
1104.5 - 1104.7	Gray sandy shale.
1104.7 - 1107.9	Brown sandstone.
1107.9 - 1108.4	Gray shale.
1108.4 - 1111.9	Brown sandstone.
1111.9 - 1113.4	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Kanalta Resources, Ltd.

Lease Rausch

Well No. 15

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	1096.5	15.4	33	46	79	394	0.45	0.3	0.3	118	0.14
2	1097.5	16.1	35	41	76	437	2.4	0.4	0.7	175	0.96
3	1099.7	16.3	42	36	78	531	0.28	0.4	1.1	212	0.11
4	1100.7	17.6	41	37	78	560	13.	0.4	1.5	224	5.20
5	1101.5	16.3	44	37	81	556	39.	0.8	2.3	445	31.20
6	1102.6	18.7	50	24	74	725	44.	1.0	3.3	725	44.00
7	1103.7	18.0	44	29	73	614	30.	0.5	3.8	307	15.00
8	1104.4	18.2	43	30	73	607	9.2	0.5	4.3	304	4.60
9	1105.4	15.8	54	28	82	662	27.	1.0	5.3	662	27.00
10	1106.6	19.6	53	18	71	806	78.	1.2	6.5	967	93.60
11	1107.5	18.0	46	26	72	642	42.	1.0	7.5	642	42.00
12	1108.5	21.1	49	15	64	802	125.	0.6	8.1	481	75.00
13	1109.7	21.4	57	14	71	946	83.	1.0	9.1	946	83.00
14	1110.8	19.0	57	23	80	840	64.	1.0	10.1	840	64.00
15	1111.7	18.5	49	30	79	703	37.	0.9	11.0	633	33.30

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Rausch	Well No.	
Kanalta Resources, Ltd.				15
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
1096.4 - 1100.9	1.5	4.3	6.41	729
1101.4 - 1111.9	9.5	54.0	512.70	6,952
1096.4 - 1111.9	11.0	47.2	519.11	7,681
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
1096.4 - 1100.9	1.5	38.1	39.6	486
1101.4 - 1111.9	9.5	18.6	24.4	732
1096.4 - 1111.9	11.0	18.3	26.5	698