

OILFIELD RESEARCH LABORATORIES

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

June 11, 1980

Scimitar Resources Limited
P.O. Box 221
Paola, Kansas 66071

Gentlemen:

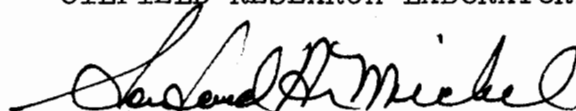
Enclosed herewith is the report of the analysis of the rotary core taken from the Phlug Lease, Well No. S-6A, Miami County, Kansas, and submitted to our laboratory on May 2, 1980.

PFLUG

Your business is greatly appreciated.

Very truly yours,

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Sanford A. Michel

SAM/kas
4 c to Paola, Kansas

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The core was sampled in the laboratory after being delivered by the client. Fresh water mud was used as a drilling fluid.

Since the core did not respond to floodpot testing, no calculated recovery is given.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval, Feet</u>	<u>Description</u>
657.0 - 657.7	Gray and brown shaly sandstone.
657.7 - 659.7	Brown sandstone.
659.7 - 660.6	Gray and brown slightly shaly sandstone.
660.6 - 663.1	Grayish brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Scimitar Resources Limited Lease Phlug Well No. S-6A

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	657.5	11.3	3	91	94	26	Imp.	0.7	0.7	18	0.00
2	658.5	3.6	12	83	95	34	16.	1.3	2.0	44	20.80
3	659.5	21.2	18	55	73	296	21.	0.7	2.7	207	14.70
4	660.5	20.7	20	53	73	321	13.	0.9	3.6	289	11.70
5	661.5	18.7	15	60	75	217	0.51	1.4	5.0	304	0.71
6	662.5	17.1	19	64	83	252	0.71	1.1	6.1	277	0.78

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Phlug	Well No.	S-6A
Scimitar Resources, Limited				
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
657.0 - 663.1	5.4	9.0	48.69	
Depth Interval, Feet	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
657.0 - 663.1	14.9	14.8	67.6	187
6.1				1,139

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company	Scimitar Resources, Limited		Lease		Phlug		Well No.		S-6A			
	Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation		Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	657.5	11.5	3	27	0	0	3	92	27	0	Imp.	-
2	658.5	4.0	11	34	0	0	11	94	34	0	Imp.	-
3	659.5	21.0	18	293	0	0	18	68	293	9	0.15	50
4	660.5	20.8	20	323	0	0	20	64	323	11	0.15	50
5	661.5	18.2	16	226	0	0	16	62	226	0	Imp.	-
6	662.5	17.4	18	243	0	0	18	66	243	0	Imp.	-

Notes: cc—cubic centimeter.

*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.