

OILFIELD RESEARCH LABORATORIES

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

June 26, 1980

Wells-Battlestein Oil & Gas, Inc.
7700 San Felipe Blvd.
Houston, Texas 77002

Gentlemen:

Enclosed herewith is the report of the analysis of the rotary core taken from the Kenny Sharp Lease, Well No. 2, Allen County, Kansas and submitted to our laboratory on May 13, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/tem

6 c to Houston, Texas
1 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Wells-Battlestein
 Company Oil & Gas, Incorporated Lease Kenny Sharp Well No. 2
 Location 1485' FEL & 495' FSL SE $\frac{1}{4}$
 Section 11 Twp. 26S Rge. 19E County Allen State Kansas

Elevation, Feet - - - - -

Name of Sand - - - - -	Cattleman
Top of Core - - - - -	771.0
Bottom of Core - - - - -	774.2
Top of Sand - - - - -	771.0
Bottom of Sand - - - - -	774.2
Total Feet of Permeable Sand - - - - -	2.2
Total Feet of Floodable Sand - - - - -	0.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
1 - 2	1.3	1.3
2 - 3	0.9	2.2

Average Permeability Millidarcys - - - - -	1.7
Average Percent Porosity - - - - -	12.4
Average Percent Oil Saturation - - - - -	26.7
Average Percent Water Saturation - - - - -	57.6
Average Oil Content, Bbls./A. Ft. - - - - -	251.
Total Oil Content, Bbls./Acre - - - - -	802.
Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -	0
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -	0
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -	0
Total Calculated Oil Recovery, Bbls./Acre - - - - -	0

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The core was sampled and the samples sealed in plastic bags by a representative of the client. Fresh water was used as a drilling fluid. The core was reported to be from a virgin area.

Since the core did not respond to flooding susceptibility tests, no calculated recovery is given.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
771.0 - 773.3	Grayish brown, very shaly sandstone.
773.3 - 774.2	Brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Wells-Battlestein Oil & Gas, Inc. Lease Kenny Sharp Well No. 2

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	771.8	11.2	27	67	235	Imp.	1.0	1.0	235	0.00
2	772.6	11.3	23	51	202	1.4	1.3	2.3	283	1.96
3	773.5	14.0	29	51	315	2.0	0.9	3.2	284	1.80

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Wells-Battlestein Oil & Gas, Inc.	Lease	Kenny Sharp	Well No.	2							
	Depth Interval, Feet	771.0 - 774.2	Feet of Core Analyzed	2.2	Average Permeability, Millidarcys	1.7	Permeability Capacity Ft. x Md.	3.76				
	Depth Interval, Feet	771.0 - 774.2	Feet of Core Analyzed	3.2	Average Percent Porosity	12.4	Average Percent Water Saturation	26.7	Average Oil Content Bbl./A. Ft.	251	Total Oil Content Bbls./Acre	802

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

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	771.8	11.5	27	241	0	0	27	68	241	0	Imp.	-
2	772.6	11.3	23	202	0	0	23	53	202	0	Imp.	-
3	773.5	13.8	29	310	0	0	29	51	310	0	Imp.	-

Company Wells-Battlestein Oil & Gas, Inc. Lease Kenny Sharp Well No. 2

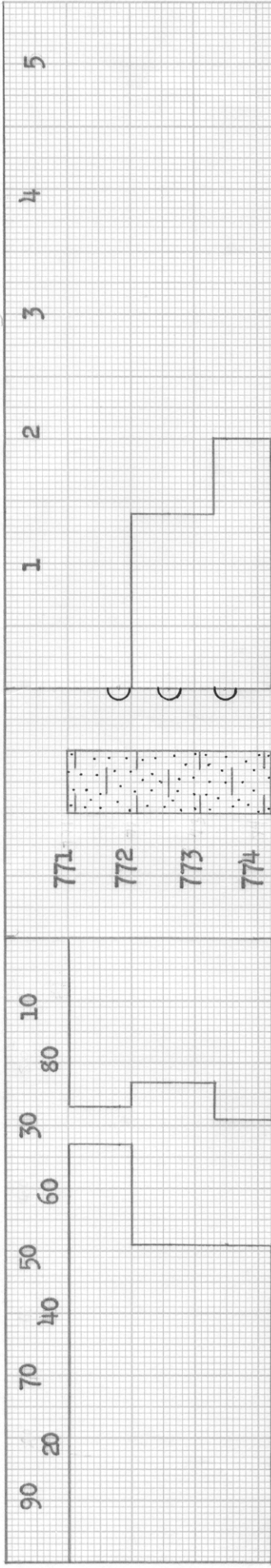
Notes: cc—cubic centimeter.

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

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

WATER SAT., ———→ OIL SAT.,
PERCENT PERCENT

————— PERMEABILITY, IN MILLIDARCY



KEY:



SHALY SANDSTONE



IMPERMEABLE TO WATER

WELLS-BATTLESTEIN OIL & GAS, INC.

KENNY SHARP LEASE

WELL NO. 2

ALLEN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVG. OIL		AVG. WATER		CALCULATED	
		SATURATION PERCENT	PERCENT	SATURATION PERCENT	PERMEABILITY MILLIDARCY	OIL RECOVERY BELS./ACRE	PERMEABILITY MILLIDARCY
771.0 - 774.2	3.2	12.4	26.7	57.6	1.7	—	—

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CHANUTE, KANSAS
JUNE, 1980

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