



OILFIELD RESEARCH LABORATORIES

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

November 8, 1979

Tutcher Oil and Gas Company
P.O. Box 308
Overbrook, Kansas 66524

Gentlemen:

Enclosed herewith is the report of the test results run on the rotary core taken from the Robert L. West Lease, Well No.3, Coffey County, Kansas, and submitted to our laboratory on October 28, 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
Benjamin R. Pearman

BRP/tem
5 c to Overbrook, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company	<u>Tutcher Oil and Gas Company</u>			Lease	<u>Robert L. West</u>	Well No.	<u>3</u>
Location	<u>759' NSL & 220' EWL SW</u>						
Section	<u>28</u>	Twp.	<u>22S</u>	Rge.	<u>17E</u>	County	<u>Coffey</u>
						State	<u>Kansas</u>

Name of Sand	Lower Squirrel
Top of Core	968.0
Bottom of Core	979.5
Top of Sand	(tested) 969.0
Bottom of Sand	(tested) 977.7
Total Feet of Permeable Sand	4.8
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.	
0 - 10	1.7	1.7	
20 - 25	1.3	3.0	
25 & Above	1.8	4.8	

Average Permeability Millidarcys	30.1
Average Percent Porosity	16.6
Average Percent Oil Saturation	40.8
Average Percent Water Saturation	40.5
Average Oil Content, Bbls./A. Ft.	572.
Total Oil Content, Bbls./Acre	3,318.
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

Name Tutcher Oil and Gas Company Lease Robert L. West Well No. 3

Depth Interval,
Feet

Description

968.0 - 973.0	Gray and brown laminated shale and sandstone 30% sandstone.
973.0 - 976.0	Brown laminated shaly sandstone.
976.0 - 976.9	Gray sandy shale.
976.9 - 977.7	Brown laminated shaly sandstone.
977.7 - 978.7	Brown and gray laminated sandstone and shale 60% sandstone.
978.7 - 979.5	Gray and brown laminated shale and sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Tutcher Oil and Gas Company Lease Robert L. West Well No. 3

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	969.5	12.8	24	71	95	238	0.15	1.0	1.0	238	0.15
2	970.6	11.6	10	84	94	90	Imp.	1.0	2.0	90	0.00
3	973.3	19.2	47	23	70	700	77.	1.0	3.0	700	77.00
4	974.4	18.2	55	20	75	777	21.	0.7	3.7	544	14.70
5	975.0	19.0	56	20	76	826	22.	0.6	4.3	496	13.20
6	975.6	17.3	53	28	81	711	6.1	0.7	5.0	498	4.27
7	977.4	20.9	58	14	72	940	44.	0.8	5.8	752	35.20

SUMMARY OF PERMEABILITY & SATURATION TESTS

Company	Lease	Robert L. West	Well No.	3
Tutcher Oil and Gas Company				

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
969.0 - 977.7	4.8	30.1	144.52