

# OILFIELD RESEARCH LABORATORIES

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

September 16, 1981

Jackson Brothers  
514 North Main  
Eureka, Kansas 67045

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Covert Lease, Well No. 11, located in Greenwood County, Kansas.

The cores were sampled by a representative of Oilfield Research Laboratories and were received in our laboratory on September 11, 1981.

The client reported that the Prue portion of the core had been out approximately 30 hours, and the Cattleman portion of the core had been out approximately 13 hours before being sampled.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Eureka, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Jackson Brothers Lease Covert Well No. 11  
 Location \_\_\_\_\_  
 Section 4 Twp. 23S Rge. 10E County Greenwood State Kansas

Elevation, Feet . . . . .		
Name of Sand . . . . .	Prue	Cattleman
Top of Core . . . . .	2110.0	2195.0
Bottom of Core . . . . .	2118.5	2199.7
Top of Sand . . . . .	2110.0	2195.0
Bottom of Sand . . . . . * (Tested) . . . . .	* 2113.0	2198.5
Total Feet of Permeable Sand . . . . .	1.0	2.5

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
	<u>PRUE SAND</u>	
0 - 1	1.0	1.0
	<u>CATTLEMAN SAND</u>	
1 - 5	1.0	1.0
5 - 10	1.5	2.5

Average Permeability Millidarcys . . . . .	0.24	6.1
Average Percent Porosity . . . . .	12.6	10.9
Average Percent Oil Saturation . . . . .	13.3	20.6
Average Percent Water Saturation . . . . .	62.0	46.0
Average Oil Content, Bbls./A. Ft. . . . .	134.	192.
Total Oil Content, Bbls./Acre . . . . .	401.	673.

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LOGName Jackson Brothers Lease Covert Well No. 11

<u>Depth Interval, Feet</u>	<u>Description</u>
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PRUE SAND

2110.0 - 2116.5 Gray shaly sandstone.

2116.5 - 2118.5 Gray shale.

CATTLEMAN SAND

2195.0 - 2198.5 Grayish light brown shaly sandstone.

2198.5 - 2199.7 Gray shale.

## RESULTS OF SATURATION &amp; PERMEABILITY TESTS

TABLE I-B

Company Jackson Brothers Lease Covert Well No. 11

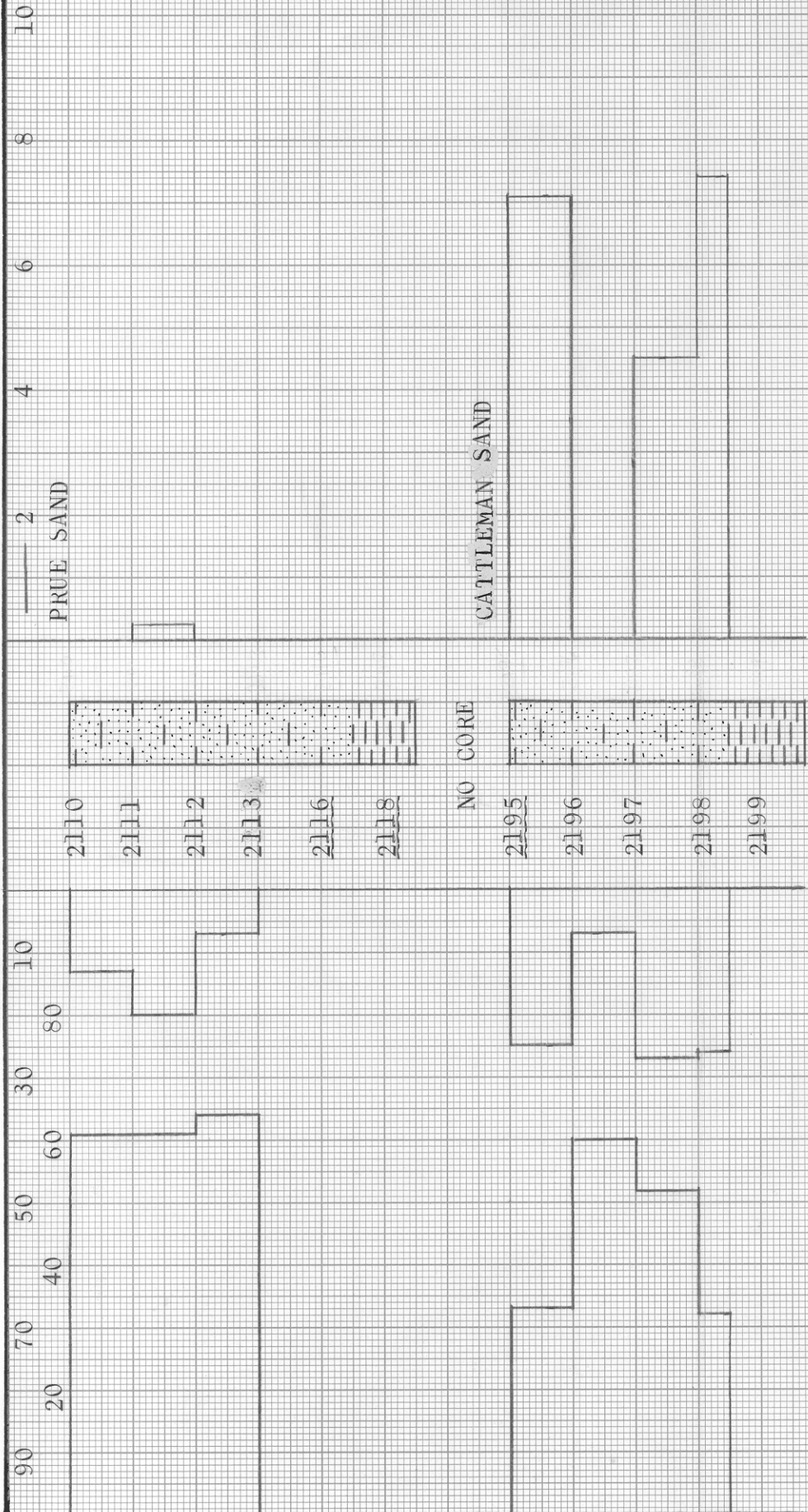
Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	2110.6	11.7	13	61	74	<u>PRUE SAND</u> 118	Imp.	1.0	1.0	118	0.00
2	2111.4	14.0	20	61	81	217	0.24	1.0	2.0	217	0.24
3	2112.4	12.1	7	64	71	66	Imp.	1.0	3.0	66	0.00
4	2195.6	11.2	25	33	58	<u>CATTLEMAN SAND</u> 217	7.1	1.0	1.0	217	7.10
5	2196.7	6.6	7	60	67	36	Imp.	1.0	2.0	36	0.00
6	2197.5	13.3	27	52	79	279	4.5	1.0	3.0	279	4.50
7	2198.4	14.0	26	32	58	282	7.4	0.5	3.5	141	3.70



WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:



SHALY SANDSTONE



SHALE

# JACKSON BROTHERS

WELL NO. 11

GREENWOOD COUNTY, KANSAS

COVERT LEASE

DEPTH INTERVAL FEET OF CORE AVERAGE AVG. OIL AVG. WATER AVERAGE

# JACKSON BROTHERS

COVERT LEASE

WELL NO. 11

GREENWOOD COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		PERCENT POROSITY	PERCENT	SATURATION PERCENT	SATURATION PERCENT	SATURATION PERCENT	PERMEABILITY, MILLIDARCS		

PRUE SAND

2110.0 - 2118.5	3.0	12.6	13.3	62.0	0.24
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CATTLEMAN SAND

2195.0 - 2198.5	2.5	10.9	20.6	46.0	6.1
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OILFIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS  
SEPTEMBER, 1981

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