

OILFIELD RESEARCH LABORATORIES

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

May 5, 1981

Oaks Petroleum, Inc.
% Calvin T. Oaks, Jr.
R. R. #2
Stoystown, Pennsylvania 15563

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Collins Lease, Well No. C-12, located in Franklin County, Kansas.

The cores were sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on April 27, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

2 to Stoystown, Pa.
3 to Paola, Ks.

T175, R21E, Sec. 16

- REGISTERED ENGINEERS -

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

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Oaks Petroleum, Inc. Lease Collins Well No. C-12
 Location 378' SNL & 2068' WEL SE $\frac{1}{4}$
 Section _____ Twp. _____ Rge. _____ County Franklin State Kansas

Elevation, Feet

	PERU	FIRST SQUIRREL
Name of Sand		
Top of Core	358.6	491.0
Bottom of Core	362.3	502.5
Top of Sand * Tested	358.6	*492.0
Bottom of Sand * Tested	361.8	*500.7
Total Feet of Permeable Sand	2.4	6.0

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

Feet

Cum. Ft.

PERU SAND

0 - 4	2.4	2.4
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FIRST SQUIRREL SAND

0 - 4	2.0	2.0
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4 - 27	4.0	6.0
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Average Permeability Millidarcys	2.9	7.6
Average Percent Porosity	10.0	16.9
Average Percent Oil Saturation	36.1	36.7
Average Percent Water Saturation	43.3	47.6
Average Oil Content, Bbls./A. Ft.	265.	460.
Total Oil Content, Bbls./Acre	849.	3,223.

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LOGName Oaks Petroleum, Inc. Lease Collins Well No. C-12

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

358.6 - 359.4	Grayish light and brown slightly calcareous shaly sandstone.
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359.4 - 361.8	Grayish brown slightly calcareous shaly sandstone.
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361.8 - 362.3	Gray shale.
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FIRST SQUIRREL SAND

491.0 - 498.9	Gray and brown calcareous laminated shale and sandstone.
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498.9-- 499.7	Brown calcareous sandstone.
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499.7 - 502.5	Grayish light brown calcareous shaly sandstone.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Oaks Petroleum, Inc. Lease Collins Well No. C-12

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	358.8	12.7	13	59	72	PERU SAND 128	Imp.	0.8	0.8	102	0.00
2	359.7	5.7	38	56	94	168	3.7	0.7	1.5	118	2.59
3	360.4	9.0	55	40	95	384	3.1	0.7	2.2	269	2.17
4	361.4	11.6	40	24	64	360	2.2	1.0	3.2	360	2.20
5	492.6	10.3	47	44	91	FIRST SQUIRREL SAND 376	Imp.	1.0	1.0	376	0.00
6	494.8	20.6	34	49	83	543	8.5	1.2	2.2	652	10.20
7	496.6	15.6	56	37	93	678	0.31	1.0	3.2	678	0.31
8	497.4	16.3	42	56	98	531	5.0	1.0	4.2	531	5.00
9	498.6	20.5	16	49	65	255	6.9	1.0	5.2	255	6.90
10	499.5	22.0	29	33	62	495	26.	0.8	6.0	396	20.80
11	500.5	13.5	32	62	94	335	2.6	1.0	7.0	335	2.60

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SUMMARY OF PERMEABILITY & SATURATION TESTS

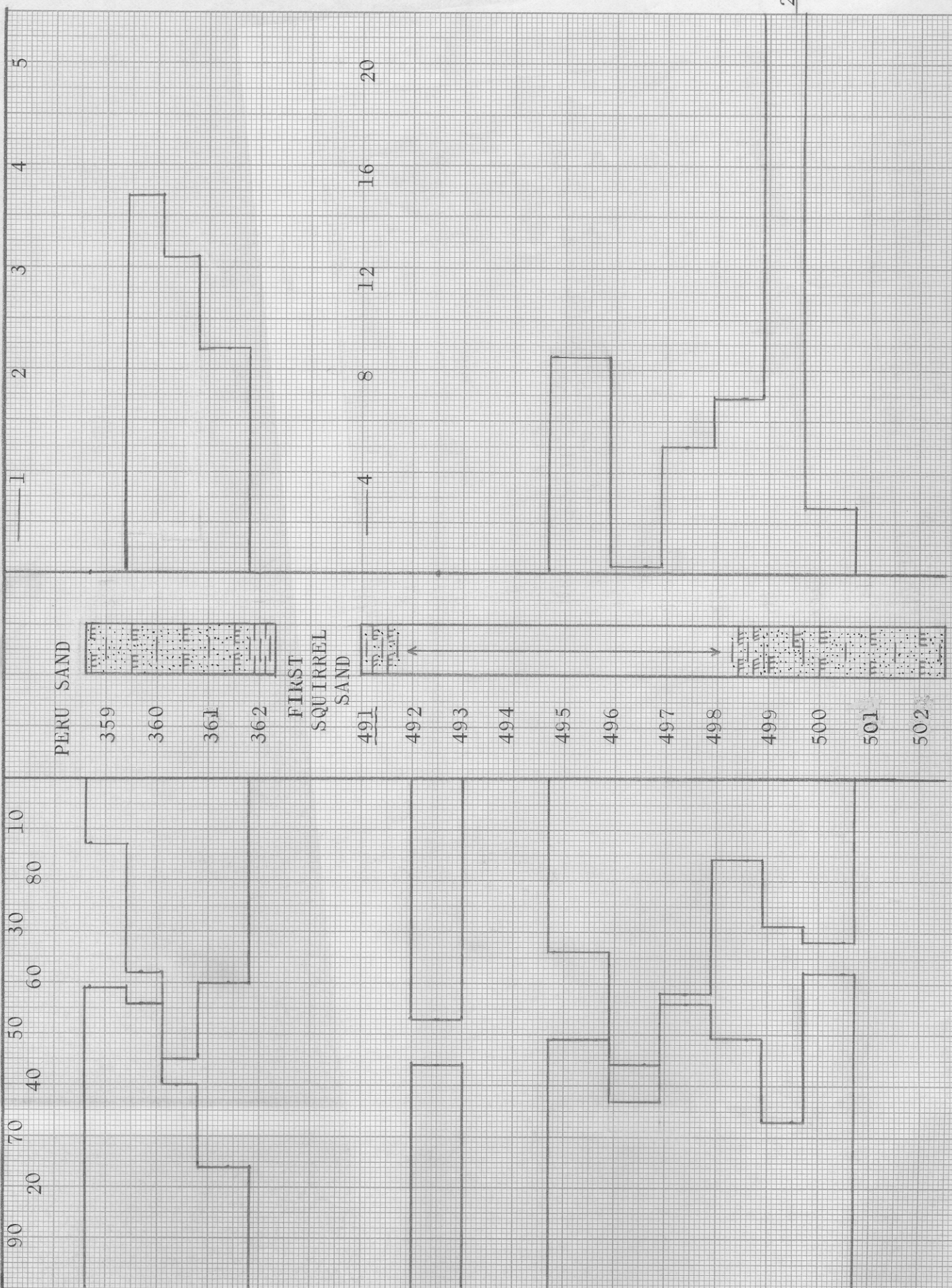
TABLE III

Company	Oaks Petroleum, Inc.	Lease	Collins	Well No.	C-12
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
358.6 - 361.8	358.6 - 361.8	2.4	2.9	6.96	
			<u>PERU SAND</u>		
492.0 - 500.7	492.0 - 500.7	6.0	7.6	45.81	
			<u>FIRST SQUIRREL SAND</u>		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
358.6 - 361.8	3.2	10.0	36.1	43.3	265
			<u>PERU SAND</u>		
492.0 - 500.7	7.0	16.9	36.7	47.6	460
			<u>FIRST SQUIRREL SAND</u>		
					849
					3,223

WATER SAT., PERCENT

OIL SAT., PERCENT

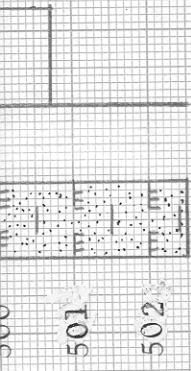
PERMEABILITY, IN MILLIDARCYS



KEY:

CALCAKEOUS SANDSTONE

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KEY:

ShALE

CALCAREOUS SANDSTONE

SHALY CALCAREOUS SANDSTONE

LAMINATED CALCAREOUS SHALE AND SANDSTONE

OAKS PETROLEUM, INC.

COLLINS LEASE
 FRANKLIN COUNTY, KANSAS
 WELL NO. C-12

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	PERU SAND		FIRST SQUIRREL SAND		AVERAGE PERMEABILITY, MILLIDARCYS	
		AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS		

358.6 - 361.8	3.2	10.0	36.1	43.3	2.9
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492.0 - 500.7	7.0	16.9	36.7	47.6	7.6
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OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 MAY, 1981

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