

31-28-17E

**Oilfield Research Laboratories**

**GENERAL INFORMATION & SUMMARY**

Company Jones & Campbell Lease Short Well No. OE-3

Location SW<sup>1</sup>/<sub>4</sub> SE NE

Section 31 Twp. 28S Rge. 17E County Wilson State Kansas

Name of Sand	- - - - -	Squirrel
Top of Core	- - - - -	771.0
Bottom of Core	- - - - -	791.0
Good Top of Sand	- - - - -	774.8
Good Bottom of Sand	- - - - -	784.2
Total Feet of Permeable Sand	- - - - -	10.2
Total Feet of Floodable Sand	- - - - -	

**Distribution of Permeable Sand:**  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 20	3.7	3.7
20 - 40	2.7	6.4
40 - 60	1.0	7.4
60 - 100	1.0	8.4
100 & above	1.8	10.2

Average Permeability Millidarcys	- - - - -	48.3
Average Percent Porosity	- - - - -	19.1
Average Percent Oil Saturation	- - - - -	44.7
Average Percent Water Saturation	- - - - -	33.5
Average Oil Content, Bbls./A. Ft.	- - - - -	673.
Total Oil Content, Bbls./Acre	- - - - -	7,467.
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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Company Jones & Campbell Lease Short Well No. 0-E-3

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

771.0 - 773.5 - Brownish gray sandy shale.

773.5 - 774.8 - Hard brown slightly calcareous sandstone.

774.8 - 781.7 - Brown slightly laminated shaly sandstone.

781.7 - 784.2 - Brown laminated shaly sandstone.

784.2 - 785.0 - Dark carbonaceous shaly sandstone.

785.0 - 786.5 - Dark carbonaceous very shaly sandstone.

786.5 - 791.0 - Gray sandy shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Jones & Campbell Lease Short Well No. OE-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	773.6	11.3	21	57	78	184	Imp.	0.6	0.6	111	0.00
2	774.7	13.0	50	36	86	504	-	0.7	1.3	352	-
P-2	774.9	-	-	-	-	-	17.	0.4	1.7	-	6.80
3	775.5	21.8	49	27	76	829	125.	0.8	2.5	663	100.00
4	776.5	21.5	42	24	66	704	128.	1.0	3.5	704	128.00
5	777.5	22.5	50	27	77	873	88.	1.0	4.5	873	88.00
6	778.5	20.9	51	31	82	827	53.	1.0	5.5	827	53.00
7	779.5	21.6	51	31	82	855	34.	1.0	6.5	855	34.00
8	780.5	20.4	45	35	80	713	21.	1.0	7.5	713	21.00
9	781.5	19.2	35	36	71	522	26.	0.7	8.2	365	18.20
10	782.5	18.0	38	37	75	531	19.	1.3	9.5	690	24.65
11	783.5	18.1	46	37	83	646	13.	1.2	10.7	776	15.60
12	784.5	17.0	51	32	83	673	4.1	0.8	11.5	538	3.28

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Jones & Campbell Lease Short Well No. OE-3

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
774.8 - 785.0	10.2	48.3	492.53

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
773.5 - 785.0	11.1	19.1	44.7	33.5	673	7,467

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