



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

October 15, 1968

Partners Production Company
Box 192
Wellsville, Kansas 66092

Gentlemen:

Enclosed herewith are the results of tests run on the Cable tool core taken from the Pennington Lease, Well No. 3, Franklin County, Kansas, and submitted to our laboratory on October 11, 12, 1968.

This core was sampled and the samples sealed in plastic bags by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

5 c. - Wellsville, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Partners Production Company Lease Pennington Well No. 3

Location 100' EWL & 600' NSL, SW SW

Section 5 Twp 17S Rge. 21E County Franklin State Kansas

Name of Sand - - - - - Upper Squirrel

Top of Core - - - - - 640.0

Bottom of Core - - - - - 652.1

Top of Sand - - - (Cored) - - - 643.6

Bottom of Sand - - - - - 651.5

Total Feet of Permeable Sand - - - - - 5.9

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 25	2.7	2.7
25 - 100	2.2	4.9
100 & above	1.0	5.9

Average Permeability Millidarcys - - - - - 54.5

Average Percent Porosity - - - - - 21.8

Average Percent Oil Saturation - - - - - 35.9

Average Percent Water Saturation - - - - - 48.5

Average Oil Content, Bbls./A. Ft. - - - - - 606.

Total Oil Content, Bbls./Acre - - - - - 4,180.

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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GENERAL INFORMATION & SUMMARY

Company Partners Production Company Lease Pennington Well No. 3

Location 100' EWL & 600' NSL, SW SW

Section 5 Twp. 17S Rge. 21E County Franklin State Kansas

Name of Sand - - - - - Lower Squirrel

Top of Core - - - - - 693.6

Bottom of Core - - - - - 719.3

Top of Sand - - - - - 693.8

Bottom of Sand - - - - - 699.3

Total Feet of Permeable Sand - - - - - 4.5

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5	1.7	1.7
5 - 100	1.0	2.7
100 & above	1.8	4.5

Average Permeability Millidarcys - - - - - 63.3

Average Percent Porosity - - - - - 17.7

Average Percent Oil Saturation - - - - - 31.0

Average Percent Water Saturation - - - - - 52.0

Average Oil Content, Bbls./A. Ft. - - - - - 442.

Total Oil Content, Bbls./Acre - - - - - 2,430.

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 Partners Production Co. Lease Pennington Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>
640.0 - 641.5	Gray sandy shale, very slight bleeding.
641.5 - 643.6	Drilled with tools.
643.6 - 648.7	Brown fine grained micaceous slightly shaly sandstone.
648.7 - 650.5	Brown fine grained micaceous shaly sandstone.
650.5 - 651.5	Grayish brown laminated shaly sandstone.
651.5 - 652.1	Gray sandy shale.
652.1 - 693.6	Drilled with tools.
693.6 - 693.8	Hard dark sandy shale.
693.8 - 694.8	Brown fine grained micaceous slightly carbonaceous slightly shaly sandstone.
694.8 - 695.2	Grayish brown calcareous sandstone.
695.2 - 697.5	Brown fine grained micaceous slightly carbonaceous slightly shaly sandstone.
697.5 - 699.3	Brown fine grained sandstone.
699.3 - 699.9	Gray sandy shale.
699.9 - 709.7	Drilled with tools.
709.7 - 713.0	Gray sandy shale.
713.0 - 716.5	Laminated sandy shale with very little bleeding.
716.5 - 719.3	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Partners Production Company Lease Pennington Well No. 3

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	644.0	20.9	33	54	87	536	16.	0.9	0.9	482	14.40
2	645.0	22.9	32	42	74	568	101.	1.0	1.9	568	101.00
3	646.0	22.1	41	48	89	703	19.	1.0	2.9	703	19.00
4	647.0	20.9	37	49	86	600	85.	1.0	3.9	600	85.00
5	648.0	23.3	45	43	88	814	78.	1.2	5.1	977	93.60
6	649.0	20.4	31	52	83	491	11.	0.8	5.9	393	8.80
7	650.0	20.3	29	54	83	457	Imp.	1.0	6.9	457	0.00
8	694.0	11.3	15	63	78	132	18.	1.0	7.9	132	18.00
9	695.0	6.8	39	45	94	206	1.6	0.4	8.3	82	0.64
10	696.0	20.5	27	54	81	430	4.5	1.3	9.6	559	5.85
11	697.0	18.0	36	60	96	503	-	1.0	10.6	503	-
12	698.0	22.2	43	38	81	741	114.	1.0	11.6	741	114.00
13	699.0	20.8	32	46	78	516	183.	0.8	12.4	413	146.40