



OILFIELD RESEARCH LABORATORIES

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Chanute, Kansas

September 15, 1965

Steam Injection Corporation
219 South Highland
Chanute, Kansas

Gentlemen:

Enclosed herewith is the report of the analysis of the Rotary core taken from the Kidd Lease, Well No. 1, Wilson County, Kansas, and submitted to our laboratory on September 10, 1965.

This core was sampled and the samples sealed in plastic bags by a representative of Oilfield Research Laboratories. The well was drilled in virgin territory.

A steam injection test was run on Sample No. 3. The results of this test are presented on Table IV.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company Steam Injection Corp. Lease Kidd Well No. 1
 Location NW NW
 Section 10 Twp. 29S Rge. 15E County Wilson State Kansas
 Name of Sand - - - - - New Albany
 Top of Core - - - - - 286.0
 Bottom of Core - - - - - 305.0
 Top of Sand - - - - - (Tested) 286.0
 Bottom of Sand - - - - - (Tested) 300.6
 Total Feet of Permeable Sand - - - - - 13.8
 Total Feet of Floodable Sand - - - - -
 Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
70 - 100	3.2	3.2
100 - 200	4.6	7.8
200 - 296	6.0	13.8

 Average Permeability Millidarcys - - - - - 180.0
 Average Percent Porosity - - - - - 23.2
 Average Percent Oil Saturation - - - - - 31.4
 Average Percent Water Saturation - - - - - 53.5
 Average Oil Content, Bbls./A. Ft. - - - - - 570.
 Total Oil Content, Bbls./Acre - - - - - 7,886.
 Average Percent Oil Recovery by Laboratory Flooding Tests - (Steam) - - - 20.0
 Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. (Steam) - - - 357.
 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 Steam Injection Corp. Lease Kidd Well No. 1

Depth Interval, Description
Feet

286.0 - 292.2 - Brown, slightly shaly sandstone.

292.2 - 293.0 - Gray shaly sandstone.

293.0 - 298.6 - Brown, slightly shaly sandstone.

298.6 - 300.6 - Gray and brown shaly sandstone.

300.6 - 305.0 - Gray shaly sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company			Steam Injection Corporation			Lease		Kidd		Well No. 1	
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	286.1	16.5	14	82	96	179	130.	0.6	0.6	107	78.00
2	287.1	24.4	43	44	87	813	202.	1.0	1.6	813	202.00
3	288.1	22.6	40	52	92	700	292.	1.0	2.6	700	292.00
4	289.1	23.2	39	47	86	701	281.	1.0	3.6	701	281.00
5	290.1	26.0	37	45	82	745	276.	1.0	4.6	745	276.00
6	291.1	22.3	31	61	92	536	160.	1.0	5.6	536	160.00
7	292.1	23.6	33	57	90	604	86.	0.6	6.2	362	51.60
8	293.1	23.1	31	56	87	556	88.	0.6	6.8	334	52.80
9	294.1	22.6	31	52	83	543	145.	1.0	7.8	543	145.00
10	295.1	23.2	32	50	82	575	113.	1.0	8.8	575	113.00
11	296.1	23.3	28	55	83	506	137.	1.0	9.8	506	137.00
12	297.1	23.4	34	46	80	618	296.	1.0	10.8	618	296.00
13	298.1	24.0	29	53	82	540	233.	1.0	11.8	540	233.00
14	299.1	23.1	31	50	81	556	70.	1.0	12.8	556	70.00
15	300.1	24.7	13	66	79	250	95	1.0	13.8	250	95.00
Total										7,886	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Steam Injection Corporation		Lease	Kidd	Well No.	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	1	
	286.0 - 292.2	6.2	217.0	1,340.60		
	293.0 - 300.6	7.6	150.2	1,141.80		
	286.0 - 300.6	13.8	180.0	2,482.40		

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
286.0 - 292.2	6.2	23.0	35.2	53.6	640	3,964
293.0 - 300.6	7.6	23.4	28.6	53.4	516	3,922
286.0 - 300.6	13.8	23.2	31.4	53.5	570	7,886

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation		Volume of Water Recovered cc ^a	Effective Permeability Millidarcys ^{aa}	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water			
3	288.1	23.0	40	714	20	357	20	26	441	15.51	-

Company Steam Injection Corporation Kidd Less Well No. 1

Notes: cc—cubic centimeter.

^a—Volume of water recovered at the time of maximum oil recovery.

^{aa}—Determined by passing water through sample which still contains residual oil.