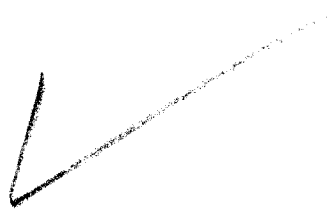


June 24, 1949



Deep Rock Oil Corporation
Tulsa, Oklahoma

Attention: Mr. T. F. Lawry

Gentlemen:

Enclosed herewith is the report of the partial analysis made on the No. 6 Baker barrel core taken from the Miller Lease, Well No. O-1, Franklin County, Kansas, and submitted to our laboratory on June 16, 1949.

In calculating the recovery for the sand within the vicinity of this well, no allowance was made for oil lost during coring; and, of course, it is assumed that the sand is not pressured up.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:cc
c.c. to Mr. Neil Henderson

DEET ROCK OIL CORPORATION

CORE ANALYSIS REPORT

MILLER LEASE WELL NO. 9-1

FRANKLIN COUNTY, KANSAS

OIL FIELD RESEARCH LABORATORIES

CHANUTE, KANSAS

JUNE 25, 1949

Oil Field Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Deep Rock Oil Corporation Lease Miller Well No. 0-1

Location NW 1

Section 36 Twp. 16S Rge. 21E County Franklin State Kansas

Name of Sand	Squirrel
Top of Core	643.95
Bottom of Core	653.85
Top of Sand	644.45
Bottom of Sand	651.55
Total Feet of Permeable Sand Analyzed	3.52

Distribution of Permeable Sand:

Permeable Range
Millidarcys

Feet

Cum. Ft.

Average Effective Permeability, Millidarcys	3.54
Average Percent Porosity	18.25
Average Percent Oil Saturation	34.74
Average Percent Water Saturation	-
Average Oil Content, Bbls./A. Ft.	548.
Total Oil Content, Bbls./Acre	3,071.
Average Percent Oil Recovery by Laboratory Flooding Tests	15.49
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	251.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	719.
Total Calculated Oil Recovery, Bbls./Acre	550.
Packer Setting, Feet	645.0
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	

Note: The above average are for that part of the sand section extending from the packer setting to the top of the cement plug.

OIL FIELD RESEARCH LABORATORIES

LOG

Company Deep Rock Oil Corporation Lease Hiller Well No. C-1

Depth Interval, Description
Feet

643.95 - 644.45 - Gray sandy shale.

644.45 - 647.80 - Brown fine grained micaceous slightly calcareous sandstone.

647.80 - 648.10 - Brown fine grained slightly laminated micaceous sandstone.

648.10 - 648.35 - Gray sandy shale.

648.35 - 648.57 - Brown fine grained micaceous sandstone.

648.57 - 649.00 - Brown fine grained laminated micaceous sandstone.

649.00 - 649.55 - Gray sandy shale.

649.55 - 650.10 - Brown fine grained micaceous sandstone.

650.10 - 650.65 - Gray sandy shale.

650.65 - 651.55 - Brown fine grained micaceous shaley sandstone.

651.55 - 653.85 - Gray sandy shale.

OIL FIELD RESEARCH LABORATORIES

SHOT RECOMMENDATION

Company Deen Rock Oil Corporation Lease Hiller Well No. Q-1

<u>Depth Interval,</u> <u>Feet</u>	<u>Feet of</u> <u>Sand</u>	<u>Size of Shell</u> <u>Inches</u>	<u>Gts./Ft.</u>	<u>Total Gts.</u>
649.0 - 651.0	2.0	4½	3.1	6.2

Recommended Packer Setting - 645.0 feet
Note: Plug hole back to 651.5 feet

Oil Field Research Laboratories

RESULTS OF SATURATION TESTS

TABLE III

Company Deep Rock Oil Corporation Lease Miller Well No. 0-1

Sat. No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content, Bbls./A. Ft.	Feet of Core		Total Oil Content Bbls./Acre
			Oil	Water	Total		Ft.	Cum. Ft.	
1	644.60	21.7	35.6	53.1	88.7	588	0.65	0.65	382
2	645.69	20.6	50.7	-	-	611	1.00	1.65	611
3	646.67	20.3	35.8	-	-	564	1.10	2.75	620
4	647.96	22.6	61.0	-	-	719	0.90	3.65	646
5	648.85	19.7	46.7	-	-	709	0.65	4.30	660
6	649.66	20.9	72.6	-	-	545	0.55	4.85	700
7	650.96	14.7	16.1	-	-	206	0.90	5.75	185
							Total	- - - -	3,404

Oil Field Research Laboratories

SUMMARY OF SATURATION TESTS

TABLE IV

Company	Deep Hook Oil Corporation	Lease	Miller	Well No.	0-1	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbls./A. Ft.	Total Oil Content Bbls./Acre
645.00-651.50	5.60	18.25	34.74	-	548	3,071

RESULTS OF LABORATORY FLOODING TESTS

TABLE V

Company Dean Rock Oil Corporation Lease Miller Well No. G-1

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	*** Effective Permeability, Millidarcys	Initial Fluid Production Pressure Lbs./Sq. In.
			Percent	Bbls./A. Ft.	Percent	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
2	645.69	20.6	50.7	811	28.0	448	22.7	63.6	363	120	6.69	10
3	646.67	20.3	35.8	564	4.8	76	31.0	56.6	488	13	0.637	5
4	648.46	22.6	41.0	719	21.0	368	20.0	69.8	351	128	6.54	5
5	648.85	19.7	46.3	709	0.0	0	46.3	52.8	709	4	0.169	45
6	649.66	20.9	33.6	545	11.9	193	21.7	68.2	352	141	2.47	5
7	650.96	14.7	18.1	206	0.0	0	18.1	60.3	206	0	Imp.	50+
Notes: -cc- cubic centimeter												
*Volume of water recovered at the time of maximum oil recovery.												
**Determined by passing water through sample which still contains residual oil.												

Oil Field Research Laboratories
SUMMARY OF LABORATORY FLOODING TESTS

TABLE VI

Company	<u>Deep Rock Oil Corporation</u>	Lease	<u>Miller</u>	Well No.	<u>2-1</u>
Depth Interval, Feet					
Feet of Core Analyzed					<u>645.10 - 650.10</u>
Average Percent Porosity					<u>2.87</u>
Average Percent Original Oil Saturation					<u>20.69</u>
Average Percent Oil Recovery					<u>40.97</u>
Average Percent Residual Oil Saturation					<u>15.49</u>
Average Percent Residual Water Saturation					<u>25.48</u>
Average Percent Total Residual Fluid Saturation					<u>62.26</u>
Average Original Oil Content, Bbls./A. Ft.					<u>87.74</u>
Average Oil Recovery, Bbls./A. Ft.					<u>639.</u>
Average Residual Oil Content, Bbls./A. Ft.					<u>251.</u>
Total Original Oil Content, Bbls./Acre					<u>408.</u>
Total Oil Recovery, Bbls./Acre					<u>1,889.</u>
Total Residual Oil Content, Bbls./Acre					<u>719.</u>
Average Effective Permeability, Millidarcys					<u>1,170.</u>
Average Initial Fluid Production Pressure, p.s.i.					<u>3.54</u>
					<u>6.25</u>

Note: Only those samples which produced oil were used in calculating the above averages.