

April 25, 1949

Deep Rock Oil Corporation
Tulsa, Oklahoma

Attention: Mr. T. F. Lawry

Gentlemen:

Attached hereto are the results of effective permeability tests made on the No. 6 Baker barrel core taken from the Miller Lease, Well No. MP-4, Franklin County, Kansas, and submitted to our laboratory on April 19, 1949.

Inasmuch as this core was so broken and contained very little sand, it was suggested to us that we test it only for effective permeability.

Very truly yours,

GIL FIELD RESEARCH LABORATORIES

Carl L. Fate

CLP:bb

c.c. to Mr. Neil Henderson

OIL FIELD RESEARCH LABORATORIES

LOG

Company Deen Rock Oil Corporation Lease Miller Well No. MP-4

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
620.00 - 620.95	- Dark brown fine grained micaceous sandstone.
620.95 - 621.45	- Gray sandy shale.
621.45 - 621.95	- Dark brown fine grained micaceous shaley sandstone.
621.95 - 623.55	- Gray sandy shale.
623.55 - 624.20	- Laminated sandstone and shale.
624.20 - 624.67	- Dark brown fine grained slightly laminated micaceous sandstone.
624.67 - 625.55	- Gray sandy shale.
625.55 - 626.32	- Gray shale.
626.32 - 626.70	- Gray sandy shale.
626.70 - 626.83	- Dark brown fine grained micaceous shaley sandstone.
626.83 - 627.08	- Laminated sandstone and shale.
627.08 - 627.23	- Dark brown fine grained micaceous shaley sandstone.
627.23 - 627.43	- Laminated sandstone and shale.
627.43 - 627.80	- Gray sandy shale.
627.80 - 628.20	- Gray shale.
628.20 - 628.72	- Gray sandy shale.
628.72 - 629.00	- Dark brown fine grained laminated micaceous sandstone.
629.00 - 629.10	- Gray shale.
629.10 - 629.73	- Dark brown fine grained micaceous shaley sandstone.
629.73 - 630.80	- Gray sandy shale.

OIL FIELD RESEARCH LABORATORIES

SHOT RECOMMENDATION

Company Deep Rock Oil Corporation Lease Miller Well No. MP-4

<u>Depth Interval,</u> <u>Feet</u>	<u>Feet of</u> <u>Sand</u>	<u>Size of Shell,</u> <u>Inches</u>	<u>Qts/Ft.</u>	<u>Total Qts.</u>
622.0 - 628.0	6.0	3 $\frac{1}{2}$	2.0	12.0

Recommended Packer Setting - 620.0 feet.

Note: Plug hole back to 629.5 feet.

DEEP ROCK OIL CORPORATION

MILLER LEASE

WELL NO. MP-4

TABLE I

Results of Effective Permeability

Sample No.	Depth Interval, Feet	Feet of Sand		Effective Permeability Millidarcys
		Ft.	Cum. Ft.	
1	620.30	0.95	0.95	2.56
2	621.75	0.50	1.45	0.31
5	624.45	0.47	1.92	3.75
7	626.70	0.23	2.15	Imp.
10	629.25	0.63	2.78	0.954