



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

May 11, 1982

Sand Dollar Energy Corporation
10 West 14th
P. O. Box 183
Chanute, Kansas 66720

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Morton Lease, Well No. 78, located 495' South of the North Line and 1155' East of the West Line of the Northwest $\frac{1}{4}$ of the Northwest $\frac{1}{4}$ in Section 13, T-28S, R-15E, in Wilson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on May 8, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Chanute, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

LOGName Sand Dollar Energy Corporation Lease Morton Well No. 78

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
	<u>TUCKER SAND</u>
1131.0 - 1131.6	Grayish brown shaly sandstone.
1131.6 - 1132.6	Gray slightly sandy shale.
1132.6 - 1133.0	Brown slightly shaly sandstone.
1133.0 - 1133.6	Gray sandy shale.
1133.6 - 1133.9	Brown slightly shaly sandstone.
1133.9 - 1136.5	Grayish brown very shaly sandstone.
1136.5 - 1137.0	Brown sandstone containing a vertical fracture.
1137.0 - 1137.5	Gray and brown laminated shale and sandstone.
1137.5 - 1138.0	Brown sandstone.
1138.0 - 1141.3	Grayish brown very shaly sandstone.
1141.3 - 1142.0	Brown sandstone.
1142.0 - 1142.4	Gray shale.
1142.4 - 1144.0	Brown sandstone.
1144.0 - 1144.4	Grayish black slightly carbonaceous shaly sandstone.
1144.4 - 1145.5	Gray shale.
1145.5 - 1148.0	Brown sandstone.
1148.0 - 1149.0	Light brown slightly shaly sandstone.
1149.0 - 1151.0	Gray and brown finely laminated shale and sandstone.
1151.0 - 1153.7	Brown shaly sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Sand Dollar Energy Corp. Lease Morton Well No. 78

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1131.3	15.3	36	51	87	427	7.8
2	1132.7	15.8	29	49	78	356	7.2
3	1133.7	16.3	38	35	73	481	5.7
4	1134.6	10.2	38	57	95	301	Imp.
5	1135.4	12.1	16	71	98	150	0.66
6	1136.6	16.3	41	54	95	519	9.9
7	1137.6	15.1	27	51	88	316	13.
8	1138.5	10.7	20	76	96	166	Imp.
9	1139.6	10.8	13	82	95	109	Imp.
10	1140.5	9.4	16	81	97	117	Imp.
11	1141.4	16.8	31	47	78	404	20.
12	1142.5	16.7	13	61	74	168	42.
13	1143.5	17.2	13	62	75	174	30.
14	1144.3	16.5	25	48	73	320	1.8
15	1145.6	16.3	24	53	77	304	17.
16	1146.5	15.4	26	61	87	310	9.9
17	1147.5	16.6	15	57	72	193	34.
18	1148.6	15.4	6	92	98	72	4.7
19	1149.5	11.9	24	70	94	222	Imp.
20	1150.6	10.9	16	80	96	135	Imp.
21	1151.5	15.5	32	51	83	385	2.4
22	1152.7	16.3	32	52	84	405	2.4
23	1153.5	15.9	28	44	72	345	3.7