



OILFIELD RESEARCH LABORATORIES

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September 3, 1992

Bonanza Energy Corporation
Box A
Benedict, Kansas 66714

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the North McCune Lease, Well No. 6, located in Section 4, T27S, R15E, Wilson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on August 20, 1992.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Alan M. Dunning

Alan M. Dunning

AMD:bl

5 c Benedict, KS

RECEIVED
STATE CORPORATION COMMISSION
FEB 16 1993
CONSERVATION DIVISION
Wichita, Kansas

- REGISTERED ENGINEERS -

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

LOG

Company Bonanza Energy Corp. Lease North McCune Well No. 6

BARTLESVILLE SANDSTONE

<u>Depth Interval, Feet</u>	<u>Description</u>
1254.0 - 1255.0	Sandstone, brown with widely scattered shale and mica partings and coal inclusions.
1255.0 - 1255.3	Shale and sandstone, gray and light gray, laminated.
1255.3 - 1255.7	Sandstone, grayish brown, very shaly with scattered shale and mica partings.
1255.7 - 1255.9	Shale and sandstone, gray and light gray, laminated.
1255.9 - 1256.8	Sandstone, grayish brown with widely scattered shale and mica partings.
1256.8 - 1257.1	Shale, gray with scattered light gray sandstone partings.
1257.1 - 1257.6	Sandstone, grayish brown, shaly with scattered shale and mica partings.
1257.6 - 1258.2	Shale and sandstone, gray and light brown, laminated.
1258.2 - 1258.4	Sandstone, brown with scattered shale and mica partings.
1258.4 - 1258.6	Shale, gray with scattered light gray sandstone partings.
1258.6 - 1259.0	Sandstone, dark grayish brown, very shaly, slightly carbonaceous.
1259.0 - 1259.3	Shale and sandstone, gray and light brown, laminated.
1259.3 - 1260.5	Sandstone, dark grayish brown, very shaly, slightly carbonaceous with widely scattered shale and mica partings.
1260.5 - 1261.7	Shale, gray with scattered light brown sandstone partings.

COPY

LOGCompany Bonanza Energy Corp. Lease North McCune Well No. 6BARTLESVILLE SANDSTONE (Continued)

<u>Depth Interval, Feet</u>	<u>Description</u>
1261.7 - 1265.3	Sandstone, grayish brown, very shaly with scattered shale and mica partings and inclusions.
1265.3 - 1266.1	Sandstone, brown.
1266.1 - 1266.6	Sandstone, brown with scattered shale and mica partings.
1266.6 - 1268.6	Sandstone, grayish brown, shaly with scattered shale and mica partings and inclusions.
1268.6 - 1269.5	Sandstone, brown.
1269.5 - 1270.0	Sandstone, brown with widely scattered shale and mica inclusions.
1270.0 - 1270.5	Sandstone, brown with widely scattered shale and mica inclusions and widely scattered shale nodules.
1270.5 - 1271.0	Shale, gray with widely scattered light gray sandstone inclusions.
1271.0 - 1271.6	Sandstone, grayish brown, shaly with scattered shale and mica partings and inclusions.
1271.6 - 1274.0	Sandstone, brown with very widely scattered shale and mica partings and inclusions.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Bonanza Energy Corporation Lease North McCune Well No. 6

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	1254.5	19.8	29	40	69	446	255.
2	1255.6	11.8	43	54	97	394	0.39
3	1256.5	17.8	35	35	70	483	21.
4	1257.4	12.7	25	61	86	246	1.8
5	1258.7	14.4	38	32	70	425	0.35
6	1259.5	15.0	43	34	77	500	0.56
7	1260.4	10.5	48	48	96	391	0.53
8	1262.6	14.4	44	43	87	492	0.21
9	1263.4	14.5	39	41	80	439	0.15
10	1264.4	14.2	36	34	70	397	2.3
11	1265.5	17.3	35	34	69	470	81.
12	1266.4	16.5	39	43	82	499	17.
13	1267.5	18.1	26	58	84	365	2.3
14	1268.5	14.5	19	60	79	214	2.2
15	1269.4	17.3	35	40	75	470	63.
16	1270.3	16.8	31	39	70	404	18.
17	1271.5	15.3	46	51	97	546	4.2
18	1272.5	19.4	32	38	70	482	147.
19	1273.5	21.5	30	41	71	500	237.

Oilfield Research Laboratories
RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company Bonanza Energy Corporation Lease North McCune Well No. 6

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.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
11	1265.5	17.1	35	464	3	40	32	65	424	88	1.33	35
16	1270.3	17.3	31	416	0	0	31	67	416	42	0.53	35
18	1272.5	19.2	32	477	2	30	30	67	447	586	8.40	35

Notes: cc—cubic centimeter.

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

**—Determined by passing water through sample which still contains residual oil.

COPY

Oilfield Research Laboratories
RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company Bonanza Energy Corporation Lease North McCune Well No. 7

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.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
6	1125.5	15.5	36	433	5	60	31	65	373	450	10.93	30
12	1133.5	18.4	27	385	0	0	27	70	385	454	7.46	30
24	1145.5	18.9	42	616	5	73	37	59	543	278	4.13	30
37	1158.4	15.7	39	475	7	85	32	66	390	59	0.87	35

Notes: cc—cubic centimeter.

*—Volume of water recovered at time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.

Oilfield Research Laboratories
RESULTS OF SATURATION & PERMEABILITY TESTS

COPY

TABLE 1

Company Bonanza Energy Corporation Lease North McCune Well No. 6

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	1120.6	8.5	17	78	95	112	0.83
2	1121.6	13.6	21	47	68	222	1.7
3	1122.4	13.5	27	45	72	283	9.3
4	1123.5	15.8	31	29	60	380	50.
5	1124.7	15.5	24	39	63	289	14.
6	1125.5	15.0	36	37	73	419	43.
7	1126.6	15.9	24	32	56	296	49.
8	1127.5	14.1	24	39	63	263	25.
9	1129.4	13.6	25	28	53	264	26.
10	1131.5	12.7	19	39	58	187	1.9
11	1132.5	16.4	25	35	60	318	46.
12	1133.5	18.2	27	31	58	381	139.
13	1134.4	18.0	35	33	68	489	111.
14	1135.5	17.0	25	38	63	330	52.
15	1136.6	16.8	22	38	60	287	54.
16	1137.5	16.0	32	38	70	397	19.
17	1138.5	13.8	29	49	78	311	2.2
18	1139.4	19.2	22	35	57	328	157.
19	1140.5	17.4	39	42	81	527	79.
20	1141.6	21.1	27	35	62	442	374.
21	1142.5	15.2	33	43	76	389	40.
22	1143.5	17.6	46	30	76	628	125.
23	1144.5	19.4	24	31	55	361	264.

Oilfield Research Laboratories
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TABLE 1

Company Bonanza Energy Corporation Lease North McCune Well No. 6

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
24	1145.5	18.6	42	31	73	606	108.
25	1146.4	18.8	39	23	62	569	12.
26	1147.6	17.4	49	25	74	661	61.
27	1148.5	16.4	49	30	79	623	1.2
28	1149.4	15.0	43	31	74	500	0.32
29	1150.5	16.8	34	37	71	443	33.
30	1151.5	16.5	36	44	80	461	25.
31	1152.5	16.8	26	44	70	339	30.
32	1153.5	15.1	30	51	81	351	4.1
33	1154.5	9.7	18	67	85	135	Imp.
34	1155.5	11.5	25	58	83	223	Imp.
35	1156.4	15.5	32	44	76	385	17.
36	1157.5	16.0	25	50	75	310	10.
37	1158.4	15.2	39	44	83	460	15.
38	1159.4	15.7	38	42	80	463	31.