



OILFIELD RESEARCH LABORATORIES

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

March 25, 1982

Blackhawk Oil Company, Inc.
15 North Highland
Chanute, Kansas 66720

Gentlemen:

Attached hereto are the results of tests run on the rotary cores taken from the Campbell Lease, Well No. 20, located in Section 36, T-27S, R-16E, in Wilson County, Kansas.

The cores were sampled and sealed in plastic bags by a representative of the client and were submitted to our laboratory on March 23, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Chanute, Kansas

LOGName Blackhawk Oil Company, Inc. Lease Campbell Well No. 20

Depth Interval, Feet	Description
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SQUIRREL SAND

859.0 - 859.5	Gray limestone.
859.5 - 860.0	Brown sandstone.
860.0 - 861.0	Brown slightly calcareous very shaly sandstone.
861.0 - 862.0	Brown slightly calcareous shaly sandstone..
862.0 - 863.4	Grayish light brown very shaly sandstone.
863.4 - 863.8	Brown slightly shaly sandstone.
863.8 - 864.9	Brown calcareous very shaly sandstone.
864.9 - 865.6	Gray and brown finely laminated shale and sandstone.
865.6 - 866.0	Grayish brown very shaly sandstone.
866.0 - 867.0	Brown shaly sandstone with gray shale partings.
867.0 - 868.9	Gray and brown laminated shale and sandstone.
868.9 - 870.0	Grayish light brown very shaly sandstone.
870.0 - 870.4	Brown very shaly sandstone.
870.4 - 870.7	Gray shale.
870.7 - 871.0	Brown very shaly sandstone.

BARTLESVILLE SAND

1000.0 - 1002.0	Brown shaly sandstone.
1002.0 - 1003.5	Brown slightly shaly sandstone.
1003.5 - 1004.0	Gray and brown laminated shale and sandstone.
1004.0 - 1005.2	Brown sandstone.
1005.2 - 1006.3	Brown slightly shaly sandstone.
1006.3 - 1007.2	Brownish black slightly carbonaceous shaly sandstone.
1007.2 - 1009.6	Brownish black slightly carbonaceous very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Blackhawk Oil Co., Inc Lease Campbell Well No. 20

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
	<u>SQUIRREL SAND</u>						
1	859.6	17.8	34	33	67	470	22.
2	860.5	8.8	48	26	74	477	0.31
3	861.8	16.6	22	44	66	283	1.8
4	862.7	10.7	17	75	92	141	Imp.
5	863.5	17.3	37	30	67	497	9.4
6	864.5	11.5	44	48	92	393	Imp.
7	865.7	9.5	25	70	95	184	Imp.
8	866.8	16.5	40	40	80	512	2.5
9	867.7	12.5	22	66	88	213	*
10	868.3	16.8	37	40	77	482	0.63
11	869.4	12.6	15	81	96	147	Imp.
12	870.3	14.9	42	32	74	486	1.5
	<u>BARTLESVILLE SAND</u>						
13	1000.5	15.2	28	50	78	330	3.5
14	1001.5	14.8	33	44	77	379	3.7
15	1002.4	15.8	38	33	71	466	6.3
16	1003.4	16.8	39	30	69	508	7.8
17	1004.5	15.2	34	44	78	401	10.
18	1005.4	16.4	28	38	66	356	9.4
19	1006.4	16.5	40	34	74	512	2.9
20	1007.5	17.0	43	28	71	567	0.60
21	1008.5	14.4	44	23	67	492	Imp.
22	1009.3	13.1	51	20	71	518	Imp.

NOTE: * PERMEABILITY SAMPLE UNOBTAINABLE.