



OILFIELD RESEARCH LABORATORIES

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

October 9, 1981

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

Gentlemen:

Attached hereto are the results of tests run on the ¹⁵ rotary cores taken from the Campbell Lease, Well No. ~~14~~, located 150' South of the North Line and 150' East of the West Line of the Northeast $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ 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 October 6, 1981.

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

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LOGName Blackhawk Oil Company, Inc. Lease Campbell Well # ¹⁵14

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>UPPER SQUIRREL SAND</u>
848.0 - 849.8	Grayish brown calcareous shaly sandstone.
849.8 - 850.7	Brown sandstone.
850.7 - 853.1	Grayish brown shaly sandstone.
853.1 - 853.8	Brown sandstone with shale partings.
853.8 - 857.1	Alternate layers gray and brown shale and sandstone.
857.1 - 859.0	Gray shaly sandstone.
	<u>BARTLESVILLE SAND</u>
982.0 - 987.7	Brown sandstone with some fine shale and micaceous partings.
987.7 - 990.5	Grayish brown shaly sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Blackhawk Oil Co., Inc. Lease Campbell Well No. 15
14

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbla. / A Ft.	Perm., Mill.
			Oil	Water	Total		
UPPER SQUIRREL SAND							
1	848.5	7.1	58	36	94	320	Imp.
2	849.5	12.4	24	35	59	231	3.3
3	850.4	20.5	34	27	61	541	62.
4	851.4	15.3	48	33	81	570	1.8
5	852.6	10.3	28	67	95	224	0.57
6	853.6	17.7	28	41	69	385	14.
7	854.4	15.0	43	40	83	500	2.5
8	855.5	14.5	26	52	78	293	0.84
9	856.4	17.0	38	31	69	501	2.1
10	857.4	11.7	3	85	88	27	6.1
11	858.5	13.1	3	86	89	31	Imp.
UPPER BARTLESVILLE SAND							
12	982.4	14.5	30	49	79	337	14.
13	983.4	16.8	65	22	87	847	13.
14	984.5	16.5	33	40	73	422	24.
15	985.6	15.8	36	35	71	441	14.
16	986.6	16.6	32	33	65	412	50.
17	987.6	18.1	45	26	71	632	42.
18	988.4	16.0	18	53	71	223	4.4
19	989.5	15.3	15	44	59	178	3.1
20	990.4	15.5	18	63	81	216	0.84