



# OILFIELD RESEARCH LABORATORIES

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

September 16, 1981

Baja Kansas Productions  
1610 West Laurel  
Box 275  
Independence, Kansas 67301

Gentlemen:

Attached hereto are the results of tests run on the rotary core samples taken from the King Lease, Well No. 4, located 175' South of the North Line and 175' East of the West Line of the Southeast  $\frac{1}{4}$  of the Southwest  $\frac{1}{4}$  in Section 27, T-27S, R-18E, in Neosho County, Kansas.

The core samples were sealed in plastic bags and foil by a representative of the client and were submitted to our laboratory on September 4, 1981. In examining these samples, it is assumed that each sample represents one foot of core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Independence, Kansas

- REGISTERED ENGINEERS -

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

OILFIELD RESEARCH LABORATORIES

LOG

Name Baja Kansas Productions Lease King Well No. 4

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SAND</u>
747.0 - 751.0	Grayish light brown very shaly sandstone.
751.0 - 755.0	Grayish light brown shaly sandstone.
755.0 - 757.0	Grayish light brown very shaly sandstone.
757.0 - 758.0	Grayish light brown shaly sandstone.
758.0 - 759.0	No core.
759.0 - 761.0	Grayish light brown shaly sandstone.
761.0 - 764.0	No core.
764.0 - 765.0	Grayish light brown very shaly sandstone.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE 1**

Company Baja Kansas Prod. Lease King Well No. 4

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbla. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	747.5	14.6	22	65	87	249	Imp.
2	748.5	10.4	11	84	95	89	Imp.
3	749.5	10.3	3	93	96	24	Imp.
4	750.5	10.3	5	82	87	40	Imp.
5	751.5	14.7	26	57	83	297	1.9
6	752.5	13.6	24	62	86	253	1.5
7	753.5	14.3	27	57	84	300	0.79
8	755.5	14.5	54	39	93	608	0.95
9	756.5	6.2	13	79	92	63	Imp.
10	757.5	16.3	12	80	92	152	Imp.
11	759.5	12.8	26	51	77	258	0.22
12	760.5	15.7	31	56	87	378	2.4
13	761.5	10.0	9	67	76	70	0.30
14	764.5	13.8	16	54	70	171	Imp.

*Keep here - file with  
 our report*

**CORE ANALYSIS RESULTS**

Company BAJA KANSAS PRODUCTIONS Formation BARTLESVILLE File 3406-00908  
 Well KING NO. 4 Core Type DIAMOND Date Report 9/9/81  
 Field \_\_\_\_\_ Drilling Fluid AIR Analysts HUDSON  
 County NEOSHO State KANSAS Elev. \_\_\_\_\_ Location SEC.

**Lithological Abbreviations**

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FM MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GRV VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

**CONVENTIONAL PLUG ANALYSIS**

1	747.0 - 48.0	1.6	12.3	7.1	73.2	sd,v/slty,mic
2	748.0 - 49.0	-0.1	11.4	5.6	80.4	sd,v/slty,mic
3	749.0 - 50.0	0.3	10.7	0.0	79.8	sd,v/slty,mic
4	750.0 - 51.0	-0.1	9.7	0.0	89.5	sd,v/slty,mic
5	751.0 - 52.0	2.2	17.0	23.3	42.5	sd,v/slty,mic
6	752.0 - 53.0	5.7	17.8	26.5	42.3	sd,v/slty,mic
7	753.0 - 54.0	0.9	17.6	24.1	41.4	sd,v/slty,mic
8	754.0 - 55.0	1.1	18.6	24.8	38.5	sd,v/slty,sl shy,mic
9	755.0 - 56.0	4.1	18.7	27.3	37.2	sd,v/slty,mic
10	756.0 - 57.0	0.4	8.8	0.0	87.5	sd,v/slty,mic
11	757.0 - 58.0	-0.1	11.7	9.5	76.2	sd,v/slty,mic
12	758.0 - 59.0	2.3	12.2	20.5	61.5	sd,v/slty,mic
13	759.0 - 60.0	1.1	15.9	20.7	48.8	sd,v/slty,mic
14	760.0 - 61.0	1.4	18.5	27.7	40.3	sd,v/slty,mic
15	761.0 - 62.0	-0.1	12.6	15.6	68.1	sd,v/slty,mic
	762.0 - 64.0					sh,sl sdy
16	764.0 - 65.0	0.5	11.2	36.6	47.4	sd,v/shy,sh lam,mic
	765.0 - 69.9					sh,sl sdy

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