



OILFIELD RESEARCH LABORATORIES

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

July 17, 1980

The Marshall Petroleum Company
119 North Eighth Street
Humboldt, Kansas 66748

Gentlemen:

Attached hereto are the results of tests run on the rotary cores taken from the Baeten Lease, Well No. 4, located in Section 14, T-26S, R-17E, Allen County, Kansas.

The cores were sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on July 7, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem

5 c to Humboldt, Kansas

LOGName The Marshall Petroleum Company Lease Baeten Well No. 4

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>SQUIRREL SAND</u>
746.0 - 746.7	Gray sandy shale.
746.7 - 747.7	Brown sandstone.
747.7 - 747.9	Gray sandy shale.
747.9 - 750.3	Brown sandstone.
750.3 - 750.9	Brown and gray laminated sandstone and shale.
750.9 - 753.0	Brown sandstone.
753.0 - 754.2	Brown and gray laminated sandstone and shale.
754.2 - 755.0	Brown sandstone.
755.0 - 755.6	Brown and gray laminated sandstone and shale.
755.6 - 756.3	Brown sandstone.
756.3 - 757.0	Brown shaly sandstone.
757.0 - 757.8	Brown sandstone.
764.0 - 765.7	Brown sandstone.
765.7 - 771.1	Brown very shaly sandstone.
771.1 - 777.9	Grayish light brown very shaly sandstone.
777.9 - 782.0	Gray sandy shale.
	<u>CATTLEMAN SAND</u>
874.0 - 874.9	Brown slightly shaly sandstone.
874.9 - 878.0	Brown sandstone.
878.0 - 880.9	Brown slightly carbonaceous shaly sandstone.
880.9 - 881.8	Brown sandstone.
881.8 - 884.6	Grayish brown very shaly sandstone.
884.6 - 889.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company The Marshall Petroleum Company Lease Baeten Well No. 4

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbla. / A Ft.	Perm., Mill.
			Oil	Water	Total		
SQUIRREL SAND							
1	746.8	18.5	26	6	32	373	43.
2	747.3	17.6	36	7	43	492	79.
3	748.7	17.0	40	6	46	528	13.
4	749.7	19.1	35	7	42	519	35.
5	750.5	11.5	40	37	77	357	5.1
6	751.4	17.2	39	10	49	520	12.
7	752.5	18.6	41	5	46	592	127.
8	753.5	15.1	31	18	49	363	1.0
9	754.4	17.0	23	28	51	303	18.
10	755.8	18.2	34	9	43	480	14.
11	756.5	15.9	42	8	50	518	4.1
12	757.5	19.0	38	6	44	560	29.
13	764.8	17.6	42	6	48	574	18.
14	765.5	20.0	41	8	49	636	36.
15	766.7	14.2	42	19	61	463	Imp.
16	767.5	16.1	35	11	46	437	Imp.
17	768.3	17.6	20	33	53	273	3.1
18	769.3	14.3	53	20	73	588	Imp.
19	770.5	11.2	28	36	64	243	Imp.
20	771.4	10.2	18	52	70	142	Imp.
21	772.7	13.5	18	50	68	189	Imp.
22	773.7	11.5	12	48	60	107	Imp.
23	774.3	13.1	13	54	67	132	Imp.
24	775.7	11.8	4	54	58	37	Imp.
25	776.7	11.4	19	53	72	168	Imp.
26	777.7	10.2	11	69	80	87	Imp.
CATTLEMAN SAND							
1	874.6	18.4	30	38	68	428	8.5
2	875.4	16.0	32	42	74	397	29.
3	876.5	17.9	32	34	66	444	17.
4	877.6	15.8	33	36	69	405	15.
5	878.8	15.7	45	22	67	548	4.8
6	879.6	12.3	52	45	97	496	1.2
7	880.7	17.2	44	31	75	587	0.80
8	881.6	17.6	45	33	78	614	13.
9	882.4	15.5	46	36	82	553	0.98
10	883.5	11.5	4	83	87	36	Imp.
11	884.5	12.6	25	63	88	244	Imp.