



OILFIELD RESEARCH LABORATORIES

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

April 11, 1978

Morgan Energy, Inc.
P. O. Box 1045
Oklahoma City, Oklahoma 73101

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Page Lease, Well No. 3, Bourbon County, Kansas, and submitted to our laboratory on April 6, 1978.

This core is from a virgin territory and was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin P. Pearson
Benjamin P. Pearson

BR 10
536 North Highland, Oklahoma City, Oklahoma

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Morgan Energy, Inc. Lease Page _____ Well No. 3

Location 495' FSL & 495' FEL, NE/4

Section 23 Twp. 24S Rge. 21E County Bourbon State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - (Received) - - - - - 659.0

Bottom of Core - - - - - (Received) - - - - - 674.0

Top of Sand - - - - - (Received) - - - - - 659.0

Bottom of Sand - - - - - (Received) - - - - - 674.0

Total Feet of Permeable Sand - - - - - 15.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 60	4.0	4.0
60 - 150	2.0	6.0
150 - 250	6.0	12.0
250 & Above	3.0	15.0

Average Permeability Millidarcys - - - - - 137.1

Average Percent Porosity - - - - - 21.9

Average Percent Oil Saturation - - - - - 35.9

Average Percent Water Saturation - - - - - 52.9

Average Oil Content, Bbls./A. Ft. - - - - - 612.

Total Oil Content, Bbls./Acre - - - - - 9,178.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

Total Calculated Oil Recovery, Bbls./Acre - - - - -

Packer Setting, Feet - - - - -

Viscosity, Centipoises @ - - - - -

A. P. I. Gravity, degrees @ 60 °F - - - - -

Elevation, Feet - - - - -

OILFIELD RESEARCH LABORATORIES

- LOG -

Company Morgan Energy, Inc. Lease Page Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>
659.0 - 661.0	Light brown sandstone.
661.0 - 667.0	Brown sandstone.
667.0 - 671.0	Dark brown sandstone.
671.0 - 674.0	Dark carbonaceous sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Morgan Energy, Inc. Lease Page Well No. 3

Sample No	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cur. Ft.		
1	659.1	22.9	10	80	90	178	58.	1.0	1.0	178	58.00
2	660.1	22.8	12	77	89	212	143.	1.0	2.0	212	143.00
3	661.1	17.8	30	48	78	414	34.	1.0	3.0	414	34.00
4	662.1	20.7	26	70	96	417	244.	1.0	4.0	417	244.00
5	663.1	18.5	22	69	91	316	149.	1.0	5.0	316	149.00
6	664.1	23.2	31	62	93	557	208.	1.0	6.0	557	208.00
7	665.1	23.6	23	71	94	421	292.	1.0	7.0	421	292.00
8	666.1	21.4	27	55	82	448	384.	1.0	8.0	448	384.00
9	667.1	22.6	38	39	77	666	187.	1.0	9.0	666	187.00
10	668.1	22.4	46	40	86	799	35.	1.0	10.0	799	35.00
11	669.1	20.1	52	45	97	809	23.	1.0	11.0	809	23.00
12	670.1	23.8	42	45	87	774	228.	1.0	12.0	774	228.00
13	671.1	22.9	40	50	90	711	415.	1.0	13.0	711	415.00
14	672.1	21.8	70	24	94	1,183	189.	1.0	14.0	1183	189.00
15	673.1	23.8	69	18	87	1,273	218.	1.0	15.0	1273	218.00

Oilfield Research Laboratories
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Morgan Energy, Inc. Lease Page Well No. 3

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
659.0 - 671.0	12.0	165.4	1985.00
671.0 - 674.0	3.0	274.0	822.00
659.0 - 674.0	15.0	187.1	2807.00

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
659.0 - 671.0	12.0	21.7	29.9	58.4	501	6,011
671.0 - 674.0	3.0	22.8	59.7	30.7	1,056	3,167
659.0 - 674.0	15.0	21.9	35.9	52.9	612	9,178