



OILFIELD RESEARCH LABORATORIES

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

February 5, 1980

Co-Kan Oil & Gas, Inc.
115 West Main Street
Cherryvale, Kansas 67335

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Ruttgen Lease, Well No. 1, Labette County, Kansas, and submitted to our laboratory on January 25, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem

5 c to Cherryvale, Kansas

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GENERAL INFORMATION & SUMMARY

Company Co-Kan Oil & Gas, Incorporated Lease Ruttgen Well No. 1

Location -

Section 12 Twp. 33S Rge. 17E County Labette State Kansas

Elevation, Feet

Name of Sand

Bartlesville

Top of Core

623.0

Bottom of Core

639.8

Top of Sand

623.0

Bottom of Sand

638.8

Total Feet of Permeable Sand

15.6

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5

2.9

2.9

5 - 10

4.9

7.8

10 - 15

5.2

13.0

15 & Above

2.6

15.6

Average Permeability Millidarcys

10.0

Average Percent Porosity

16.8

Average Percent Oil Saturation

28.3

Average Percent Water Saturation

39.4

Average Oil Content, Bbls./A. Ft.

361.

Total Oil Content, Bbls./Acre

5,635.

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LOGName Co-Kan Oil & Gas, Inc. Lease Ruttgen Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
623.0 - 623.8	Brown shaly sandstone.
623.8 - 626.8	Brown sandstone.
626.8 - 627.8	Brown shaly sandstone.
627.8 - 635.2	Brown slightly shaly sandstone.
635.2 - 635.8	Brown sandstone.
635.8 - 636.7	Brown shaly sandstone with fine carbon- aceous partings.
636.7 - 636.9	Gray sandy shale.
636.9 - 637.9	Brown slightly shaly sandstone.
637.9 - 638.8	Brown shaly sandstone.
638.8 - 639.8	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Co-Kan Oil & Gas, Incorporated Lease Ruttgen Well No. 1

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.	Cum. Ft.		
1	623.5	13.4	25	41	66	260	6.2	0.8	0.8	208	4.96
2	624.5	27.0	11	23	34	230	18.	1.0	1.8	230	18.00
3	625.5	16.9	24	42	66	315	12.	1.0	2.8	315	12.00
4	626.5	15.4	16	49	65	191	21.	1.0	3.8	191	21.00
5	627.5	16.2	27	44	71	339	4.7	1.0	4.8	339	4.70
6	628.5	17.6	31	40	71	423	12.	1.2	6.0	508	14.40
7	629.5	17.3	21	45	66	282	5.7	1.0	7.0	282	5.70
8	630.5	16.0	24	48	72	298	3.9	1.0	8.0	298	3.90
9	631.5	16.7	36	39	75	466	14.	1.0	9.0	466	14.00
10	632.5	16.8	29	39	68	378	6.3	1.0	10.0	378	6.30
11	633.5	14.8	30	41	71	345	13.	1.0	11.0	345	13.00
12	634.5	14.0	38	27	65	413	6.0	1.2	12.2	496	7.20
13	635.5	13.5	30	32	62	314	25.	0.6	12.8	188	15.00
14	636.5	18.1	27	47	74	379	6.0	0.9	13.7	341	5.40
15	637.5	17.6	40	35	75	546	11.	1.0	14.7	546	11.00
16	638.5	16.8	43	39	82	560	0.16	0.9	15.6	504	0.14

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Co-Kan Oil & Gas, Incorporated	Lease	Ruttgen	Well No.	1
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
	623.0 - 638.8	15.6	10.0	156.70	
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
623.0 - 638.8	15.6	16.8	28.3	39.4	5,635