

OILFIELD RESEARCH LABORATORIES

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

May 19, 1982

P. R. Energy, Inc.
Box 8554
Wichita, Kansas 67208

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Goley Lease, Well No. 1, located in Montgomery County, Kansas and submitted to our laboratory on March 13, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Wichita, Kansas

- REGISTERED ENGINEERS -

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

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company P. R. Energy, Inc. Lease Goley Well No. 1
 Location 330' FNL & 1320' FWL
 Section 15 Twp. 31S Rge. 17E County Montgomery State Kansas

Elevation, Feet

Name of Sand..... Bartlesville

Top of Core 784.0

Bottom of Core 856.0

Top of Sand 784.0

Bottom of Sand (Tested) 841.3

Total Feet of Permeable Sand 19.7

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

	Feet	Cum. Ft.
1 - 10	4.5	4.5
15 - 45	5.0	9.5
65 - 115	4.2	13.7
225 - 300	4.0	17.7
430 - 830	2.0	19.7

Average Permeability Millidarcys 144.4

Average Percent Porosity 20.3

Average Percent Oil Saturation 13.4

Average Percent Water Saturation..... 66.4

Average Oil Content, Bbls./A. Ft. 205.

Total Oil Content, Bbls./Acre..... 4,447.

OILFIELD RESEARCH LABORATORIESLOGName P. R. Energy, Inc. Lease Goley Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
784.0 - 787.0	Gray and brown finely laminated shale and sandstone.
787.0 - 796.0	No core.
796.0 - 796.5	Light brown slightly shaly sandstone.
796.5 - 798.0	Alternate layers gray shale and light brown sandstone.
798.0 - 804.7	Light brown sandstone.
804.7 - 831.0	No core.
831.0 - 839.5	Light brown sandstone.
839.5 - 839.8	Light brown sandstone with gray shale partings.
839.8 - 841.3	Light brown shaly sandstone containing a vertical fracture.
841.3 - 847.0	No core.
847.0 - 849.0	Gray shaly sandstone.
849.0 - 856.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company P. R. Energy, Inc.

Lease

Goley

Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	784.6	14.7	13	61	74	148	2.3	1.0	1.0	148	2.30
2	785.4	10.8	28	69	97	235	Imp.	1.0	2.0	235	0.00
3	786.4	11.6	6	90	96	54	Imp.	1.0	3.0	54	0.00
4	796.4	18.2	18	52	70	254	7.5	0.5	3.5	127	3.75
5	797.7	16.7	15	51	66	194	5.2	1.5	5.0	291	7.80
6	798.6	18.5	11	36	47	158	18.	1.0	6.0	158	18.00
7	799.5	20.8	18	53	71	290	86.	1.0	7.0	290	86.00
8	800.6	19.0	22	70	92	324	38.	1.0	8.0	324	38.00
9	801.5	19.5	14	71	85	212	31.	1.0	9.0	212	31.00
10	802.4	20.5	11	67	78	175	44.	1.0	10.0	175	44.00
11	803.4	19.3	13	79	92	195	24.	1.0	11.0	195	24.00
12	804.5	22.7	14	76	90	247	110.	0.7	11.7	173	77.00
13	831.4	20.2	11	67	78	172	105.	1.0	12.7	172	105.00
14	832.5	20.3	19	72	91	299	99.	1.0	13.7	299	99.00
15	833.6	23.0	12	75	87	214	226.	1.0	14.7	214	226.00
16	834.5	23.8	7	76	83	129	253.	1.0	15.7	129	253.00
17	835.5	26.1	11	74	85	223	296.	1.0	16.7	223	296.00
18	836.4	24.7	8	82	90	153	241.	1.0	17.7	153	241.00
19	837.5	30.7	11	72	83	262	826.	1.0	18.7	262	826.00
20	838.7	25.7	16	44	60	319	430.	1.0	19.7	319	430.00
21	839.4	19.9	19	62	81	293	68.	0.5	20.2	147	34.00
22	840.3	21.1	6	64	70	98	2.4	1.5	21.7	147	3.60

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

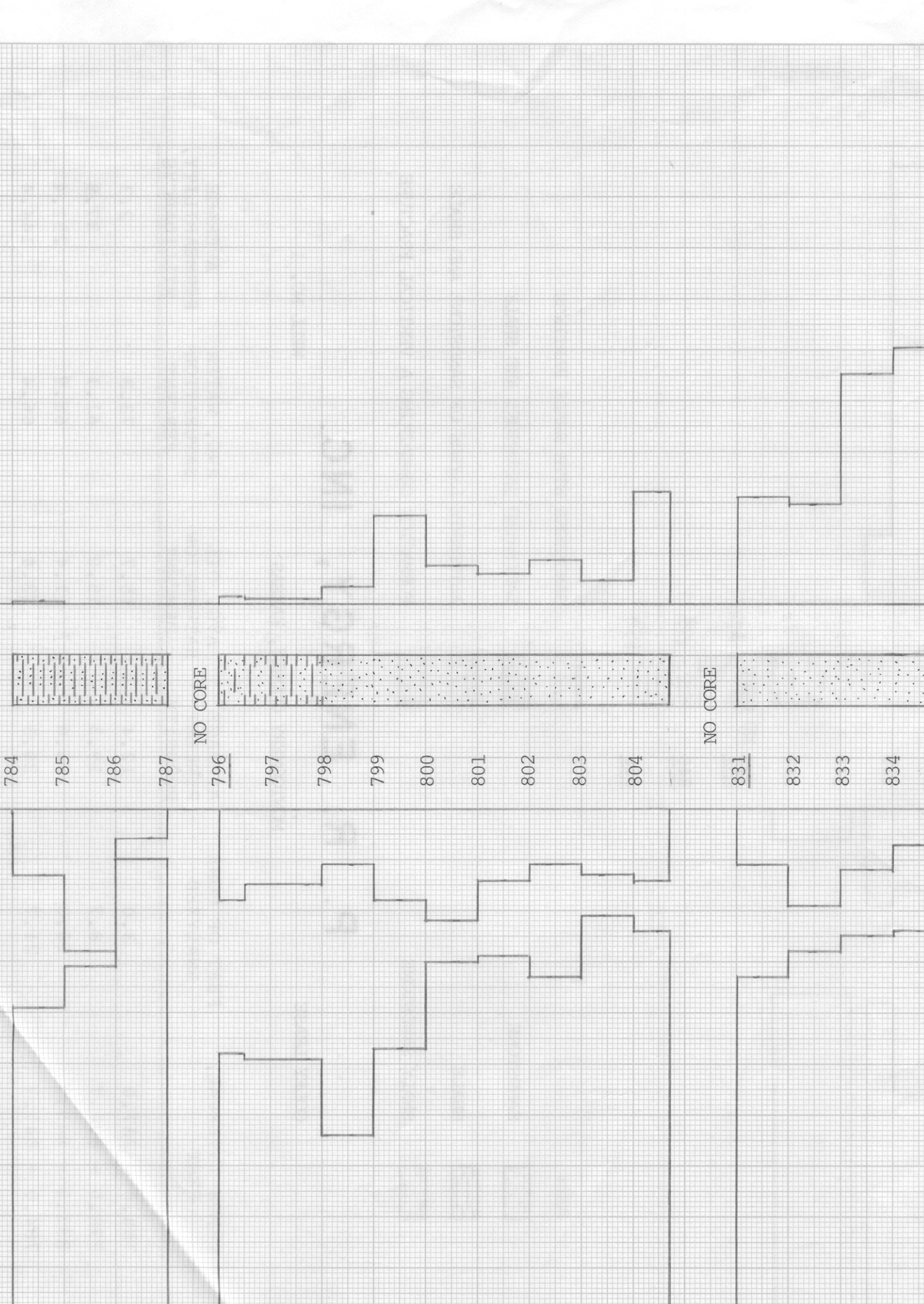
Company P. R. Energy, Inc. Lease Goley Well No. 1

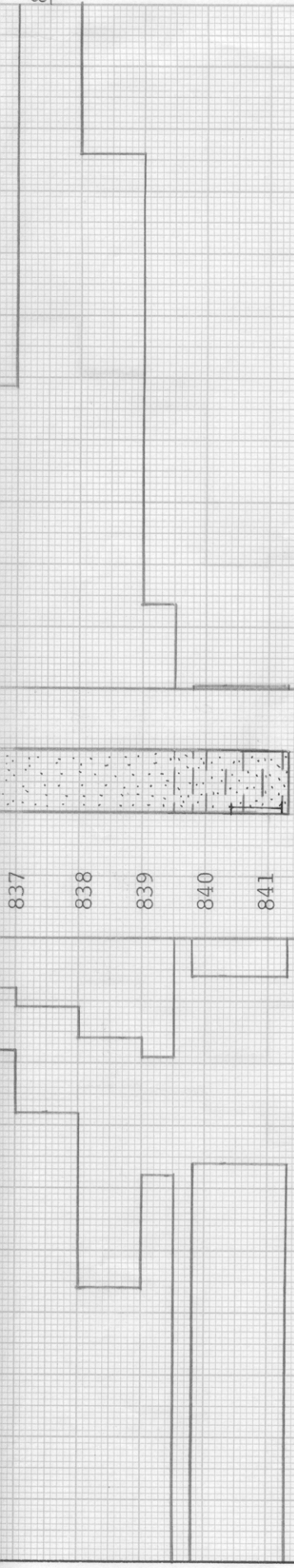
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Porosity	Average Percent Oil Saturation	Average Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
784.0 - 787.0	1.0	2.3	2.30	12.4	15.7	73.3	146	437
796.0 - 804.7	8.7	37.9	329.55	19.3	15.0	61.1	224	1,945
831.0 - 841.3	10.0	251.4	2513.60	23.6	11.4	68.9	207	2,065
784.0 - 841.3	19.7	144.4	2845.45	20.3	13.4	66.4	205	4,447

WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS





KEY:

SANDSTONE WITH SHALE PARTINGS

LAMINATED SANDSTONE AND SHALE

ALTERNATE LAYERS OF SANDSTONE AND SHALE

FORMATION CONTAINING A VERTICAL FRACTURE

SANDSTONE

SHALE

SHALY SANDSTONE

P. R. ENERGY, INC.

WELL NO. 1

MONTGOMERY COUNTY, KANSAS

GOLEY LEASE

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
784.0 - 787.0	3.0	12.4	15.7	73.3	2.3
796.0 - 804.7	8.7	19.3	15.0	61.1	37.9
831.0 - 841.3	10.0	23.6	11.4	68.9	251.4
784.0 - 841.3	21.7	20.3	13.4	66.4	144.4