

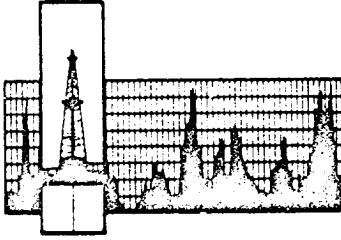
Darrell W. Smith Co. CORE FOOTAGE SUMMARY

Operator Martin Yates III Lab No. 715-H
 Well No. 1 Bilbrey
 Formations Grayburg San Andres
 Depths 3911-4003 4180-4462
 Field Undesignated County Lea State New Mexico
 Location 1980' FSL & 760' FEL, Section 19-S-38E

CORE INFORMATION

Intervals cored _____ from 3911 to 4003
 _____ from 4180 to 4462
 _____ from _____ to _____
 Feet of formation cored _____ 374
 Feet of formation recovered _____ 374
 Feet of formation cored but not recovered _____ 0
 Feet of core received at laboratory for analysis _____ 374 _____ 374
 Number of samples selected for analysis _____ 226
 Feet of core represented by selected samples _____ 226
 Feet of shale and/or dense barren material not analyzed _____ 148
 Total footage of core accounted for in laboratory analysis _____ 374 _____ 374

The analyses herein contained have been prepared for sole use by the client ordering same. Any opinions or interpretations based thereon represent the best judgment of Darrell W. Smith Company and its employees, who make no warranty or representation as to productivity or profitability of any oil, gas or mineral well or sand in connection with which such report is used or relied on, and assume no responsibility in connection therewith.



Darrell W. Smith Co.

Box 1105 • Midland, Texas

Box 455 • Hobbs, New Mexico

August 19, 1963

Martin Yates III
309 Carper Bldg.,
Artesia, New Mexico

Re: Well No. 1 Bilbrey
Undesignated Field
Lea County, New Mexico

Gentlemen:

Attached are the results of core analysis from a section of the Grayburg and San Andres formations in the above described well. The data are presented in a tabulation, and are also plotted on a graph having a depth scale of five inches equals 100 feet, to facilitate a correlation with the subsurface logs.

The above described well was cored from 3,911 feet to 4,003 feet and from 4,180 feet to 4,462 feet, using diamond coring equipment and a water base mud. All of the recovered core was brought to our Hobbs laboratory, where the gamma radiation was measured and the intervals selected for analysis were analyzed by Full Diameter techniques.

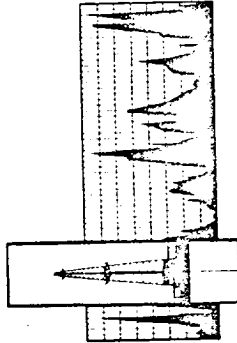
Porosity and permeability values were obtained from cleaned, dried samples, with the porosity being measured in a Boyle's Law gas expansion porosimeter.

Yours very truly,

DARRELL W. SMITH COMPANY

J. M. Glenn
J. M. Glenn
Laboratory Manager
Hobbs, New Mexico

JMG:ab



Darrell W. Smith Co.

PHONE OX 4-2511—MIDLAND, TEXAS
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FULL DIAMETER CORE STUDY

Operator Martin Yates III Field Undesignated Formation Grayburg
Well No. 1 Bilbrey Location 1980' FSL & 760' FEL, Section 19-S-38E
Depths 3911-4003 Date August 19, 1963 Lab No. 715-H

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
			Core No. 1 3911-3952 (41 Ft.) Recovered 3911-3952 (41 Ft.)					
1	3911-15	4.0	-	-	-	-	-	Ahy sc Sh stgrs sc Dol stgrs Not Analyzed
2	3915-16	1.0	-	-	-	-	-	Dol d very ahyd Not Analyzed
3	3916-18	2.0	-	-	-	-	-	Ahy sc Dol stgrs Not Analyzed
4	3918-19	1.0	-	-	-	-	-	Dol d ahyd slty Not Analyzed
5	3919-26	7.0	-	-	-	-	-	Ahy sc Dol stgrs sc Ss stgrs Not Analyzed
6	3926-27	1.0	-	-	-	-	-	Vfg gray Ss shy ahyd dolo Not Analyzed
7	3927-29	2.0	-	-	-	-	-	Vfg gray Ss shy very Ahy Not Analyzed
8	3929-31	2.0	-	-	-	-	-	Vfg gray Ss shy very Ahy Not Analyzed
9	3931-32	1.0	1.0	-	0.02	13.5	71.5	Vfg gray Ss shy very ahyd sc show
10	3932-33	1.0	0.32	-	2.1	13.8	71.2	Vfg gray Ss shy very ahyd sc show
11	3933-34	1.0	0.37	-	2.2	10.2	72.7	Vfg gray Ss shy very ahyd sc show
12	3934-35	1.0	0.08	-	2.0	10.0	74.8	Vfg gray Ss shy very ahyd sc show
13	3935-36	1.0	0.13	-	2.7	12.2	72.8	Vfg gray Ss shy very ahyd sc show
14	3936-37	1.0	0.12	-	5.3	9.4	50.0	Vfg gray Ss shy very ahyd sc show
15	3937-38	1.0	0.25	-	3.7	13.5	70.7	Vfg gray Ss shy very ahyd sc show
16	3938-39	1.0	-	-	-	-	-	Vfg gray Ss shy very ahyd Not Analyzed
17	3939-45	6.0	-	-	-	-	-	Ahy dol stgrs Not Analyzed
18	3945-46	1.0	-	-	-	-	-	Dol d ahyd Not Analyzed
19	3946-48	2.0	-	-	-	-	-	Ahy Not Analyzed
20	3948-49	1.0	-	-	-	-	-	Ahy M dol stgrs Not Analyzed
21	3949-52	3.0	-	-	-	-	-	Dol d Sh ptgs ahyd Not Analyzed

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
8	3952-54	2.0	Core No. 2 3952-4003 (51 Ft.) Recovered 3952-4003 (51 Ft.)		-	-	-	Dol d very ahyd sc Sh ptgs Not Analyzed
	3954-57	3.0			-	-	-	Ahy sc dol stgrs sc Ss stgrs Not Analyzed
	3957-61	4.0			-	-	-	Vfg gray Ss ahyd dolo shy Not Analyzed
	3961-64	3.0			-	-	-	Vfg gray Ss very ahyd dolo shy Not Analyzed
	3964-70	6.0			-	-	-	Ahy dolo Sh ptgs Not Analyzed
	3970-75	5.0			-	-	-	Dol d ahyd styo Sh ptgs Not Analyzed
	3975-77	2.0			-	-	-	Ahy sc dol stgrs Not Analyzed
	3977-79	2.0			-	-	-	Dol d ahyd Sh ptgs Not Analyzed
	3979-80	1.0			0.08	13.2	65.8	Vfg gray Ss ahyd dolo
	3980-82	2.0			-	-	-	Vfg gray Ss very ahyd dolo shy Not Analyzed
9	3982-83	1.0	0.22	11.1	54.4	Vfg gray Ss ahyd dolo		
	3983-84	1.0	-	-	-	Vfg gray Ss ahyd dolo		
	3984-87	3.0	-	-	-	Vfg gray Ss ahyd dolo		
	3987-99	12.0	-	-	-	Dol vfx ahyd sdy sl shy Not Analyzed		
	3999-4002	3.0	-	-	-	Ahy sc dol stgrs sc Ss stgrs Sh ptgs		
	4002-03	1.0	-	-	-	Dol d ahyd Sh ptgs Not Analyzed		
	4003-4180	177.0	-	-	-	Vfg gray Ss ahyd dolo shy Not Analyzed		
						Drilled		
10	4180-81	1.0	Core No. 3 4180-4230 (50 Ft.) Recovered 4180-4230 (50 Ft.)		5.2	11.5	55.8	Dol vfx sl sdy sc SV PPP RF
	4181-82	1.0			4.9	24.5	53.1	Dol vfx sc SV PPP
	4182-83	1.0			7.4	14.9	39.7	Dol vfx sdy sty PPP sc SV
	4183-84	1.0			5.4	21.4	48.9	Dol vfx dsy SV PPP
	4184-85	1.0			8.4	13.1	36.2	Dol vfx sl sdy SV PPP Sh ptgs
	4185-86	1.0			5.5	9.1	60.8	Dol vfx sl sdy PPP
	4186-89	3.0			-	-	-	Siltstone gray Not Analyzed
	4189-90	1.0			10.2	4.9	59.8	Vfg gray Ss shy
	4190-91	1.0			9.5	5.3	64.2	Vfg gray Ss shy sl dolo
	4191-92	1.0			8.7	6.9	50.6	Dol vfx sdy PPP
19	4192-93	1.0	7.4	6.8	64.9	Dol vfx sdy PPP		
	4193-94	1.0	7.0	11.4	60.0	Vfg gray Ss dolo PPP		

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OPERATOR

Martin Yates III

LAB NO.

715-II

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
21	4194-95	1.0	0.01		5.3	11.3	54.7	Dol vfx sdy sc SV PPP VF
22	4195-96	1.0	0.94		7.9	6.3	46.8	Dol vfx sl sdy PPP
23	4196-97	1.0	0.10		6.2	8.1	40.3	Dol vfx sc SV PPP
24	4197-4200	3.0	-		-	-	-	Dol d-vfx sl pyritic Sh inclcs Not Analyzed
25	4200-01	1.0	0.25		11.7	6.8	41.9	Vfg gray Ss sl dolo
26	4201-02	1.0	0.38		12.1	15.7	38.0	Vfg gray Ss
27	4202-03	1.0	0.03		11.6	12.1	39.7	Vfg gray Ss
28	4203-04	1.0	0.18		6.6	7.6	56.1	Dol vfx sl sdy sc Sh inclcs PPP
29	4204-05	1.0	0.10		7.5	6.6	57.3	Dol vfx sl sdy sc Sh inclcs PPP
30	4205-06	1.0	0.06		8.2	6.1	69.3	Dol vfx sl sdy sc SV PPP HF
31	4206-07	1.0	0.03		7.3	10.9	64.7	Vfg gray Ss sl dolo PPP
32	4207-08	1.0	0.14		12.1	14.9	35.5	Dol vfx sdy PPP hairline VF
33	4208-09	1.0	0.11		10.6	10.4	50.0	Vfg gray dolo
34	4209-10	1.0	0.66		12.5	10.6	43.6	Vfg gray Ss
35	4210-11	1.0	3.6		17.6	9.9	39.8	Vfg gray Ss
36	4211-12	1.0	1.2		14.5	10.3	40.0	Vfg gray Ss
37	4212-13	1.0	0.66		13.1	12.9	32.8	Vfg gray Ss sl dolo sc Sh lam
38	4213-14	1.0	1.0		12.0	11.7	43.3	Vfg gray Ss sl dolo
39	4214-15	1.0	0.06		12.5	12.0	55.2	Vfg gray Ss sc dolo inclcs
40	4215-16	1.0	0.33		8.3	7.2	44.6	Dol vfx sdy sc SV Pyr PPP
41	4216-17	1.0	148.		11.3	7.1	37.4	Dol vfx vuggy
42	4217-18	1.0	2.4		9.5	8.4	42.1	Dol vfx Sv PPP sty
43	4218-19	1.0	0.95		9.7	8.2	50.5	Dol vfx sty SV PPP
44	4219-20	1.0	2.3		7.9	7.6	40.5	Dol vfx sc SV PPP sty VF
45	4220-21	1.0	2.0		9.2	5.4	40.2	Dol vfx sl sdy sty sc SV
46	4221-22	1.0	631.		11.4	20.2	40.4	Dol vfx sl sdy sc SV PPP
47	4222-23	1.0	0.59		12.7	19.7	33.9	Dol vfx sl sdy sc SV PPP
48	4223-24	1.0	0.36		11.1	20.7	32.4	Dol vfx sdy PPP
49	4224-25	1.0	1.3		16.5	9.1	46.7	Vfg gray Ss sl shy dolo
50	4225-26	1.0	0.41		11.1	15.3	54.9	Vfg gray sl shy dolo
	4226-27	1.0	0.16		11.8	4.2	66.1	Vfg gray Ss dolo

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
51	4227-28	1.0	0.02		4.8	10.4	61.6	Do1 vfx sc PPP
52	4228-29	1.0	0.50		9.3	11.8	33.3	Do1 vfx sdy sty PPP
53	4229-30	1.0	0.33		9.0	8.9	38.9	Do1 vfx sl sdy sc SV PPP
			Core No. 4 4230-4280 (50 Ft.)					
			Recovered 4230-4280 (50 Ft.)					
54	4230-31	1.0	0.18		9.5	11.6	34.2	Do1 vfx sc SV sty PPP
55	4231-32	1.0	0.43		10.7	9.3	30.1	Do1 vfx sl sdy PPP
56	4232-33	1.0	0.04		6.8	8.8	35.3	Do1 vfx PPP
57	4233-34	1.0	0.06		8.3	6.0	44.6	Do1 vfx PPP
58	4234-35	1.0	0.02		6.2	11.3	46.8	Do1 vfx sdy sc PPP
59	4235-36	1.0	44.		9.4	5.3	45.7	Vfg gray Ss do1o PPP
60	4236-37	1.0	7.5		8.2	6.1	45.1	Do1 vfx sl sdy PPP
61	4237-38	1.0	15.		15.4	11.0	37.1	Vfg gray Ss sl do1o
62	4238-39	1.0	1.6		9.6	17.7	31.3	Vfg gray Ss sl do1o
63	4239-40	1.0	20.		9.5	11.6	33.2	Do1 vfx sc SV PPP VF & HF
64	4240-41	1.0	0.61		9.7	18.6	31.9	Do1 vfx very sdy sc SV sty PPP
65	4241-42	1.0	100.		10.9	5.5	42.2	Do1 vfx sc SV PPP VF
66	4242-43	1.0	629.		5.5	9.1	49.1	Do1 vfx Sh ptgs HF
67	4243-44	1.0	>1000.		6.9	7.2	36.1	Do1 vfx sc SV sc PPP VF
68	4244-45	1.0	1.1		6.5	10.8	33.8	Do1 vfx sty PPP VF
69	4245-46	1.0	0.02		4.7	3.2	65.9	Do1 vfx sc PPP
70	4246-47	1.0	8.0		5.8	8.6	53.1	Do1 vfx sc SV PPP
71	4247-48	1.0	0.08		6.6	7.7	37.9	Do1 vfx sty PPP
72	4248-49	1.0	0.62		10.8	9.3	33.1	Do1 vfx sdy PPP
73	4249-50	1.0	0.26		11.1	22.5	30.7	Do1 vfx sdy PPP
74	4250-51	1.0	0.51		11.9	16.8	36.1	Vfg gray Ss sc Sh ptgs
75	4251-52	1.0	8.5		11.1	20.7	34.2	Vfg gray Ss sc Sh ptgs VF
76	4252-53	1.0	1.3		11.8	21.2	34.6	Vfg gray Ss sl do1o VF
77	4253-54	1.0	4.0		9.6	11.5	33.9	Vfg gray Ss sl do1o VF
78	4254-55	1.0	0.26		10.8	11.1	31.3	Vfg gray Ss sl do1o VF
79	4255-56	1.0	0.08		10.7	11.2	30.8	Vfg gray Ss sl do1o VF
80	4256-57	1.0	4.6		12.4	10.5	39.5	Vfg gray Ss sl do1o VF

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OPERATOR

Martin Yates III

LAB NO. 715-II

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
81	4257-58	1.0	0.59		13.1	10.7	36.7	Do1 vfx sc SV PPP sdy
82	4258-59	1.0	0.61		13.2	9.8	32.2	Do1 vfx PPP sdy
83	4259-60	1.0	0.69		15.3	10.5	34.8	Do1 vfx sc SV PPP sdy
84	4260-65	5.0	-		-	-	-	Do1 vfx sdy Sh ptgs sty Not Analyzed
85	4265-66	1.0	0.50		11.6	5.2	43.1	Vfg gray Ss s1 dolo PPP
86	4266-67	1.0	2.4		15.6	5.1	32.4	Vfg gray Ss s1 dolo PPP
87	4267-68	1.0	0.69		12.4	6.5	31.5	Vfg gray Ss s1 dolo PPP
88	4268-69	1.0	0.10		10.4	4.8	36.0	Do1 vfx sc PPP
89	4269-70	1.0	0.01		6.2	12.9	51.6	Do1 vfx sc PPP
90	4270-71	1.0	0.16		9.2	8.7	48.3	Do1 vfx sc PPP
	4271-72	1.0	0.01		3.1	4.8	70.9	Do1 d-vfx sc SV PPP
91	4272-73	1.0	0.06		0.1	0	74.6	Do1 d-vfx sc SV PPP
92	4273-74	1.0	3.8		5.9	22.0	30.5	Vfg gray Ss sc Do1 inclvs VF
93	4274-75	1.0	1.3		3.4	14.7	55.9	Do1 d-vfx SV PPP VF
94	4275-76	1.0	1.8		3.5	4.3	62.9	Do1 d-vfx SV PPP VF
95	4276-77	1.0	45.		2.4	18.2	60.7	Do1 d-vfx sc SV PPP VF
96	4277-78	1.0	128.		2.3	20.4	61.9	Do1 d-vfx sc SV PPP VF
97	4278-79	1.0	4.6		5.4	21.5	46.3	Do1 vfx SV PPP VF
98	4279-80	1.0	>1000.		8.3	15.7	38.9	Do1 vfx SV PPP MRF
			Core No. 5 4280-4328 (48 Ft.)					
			Recovered 4280-4328 (48 Ft.)					
99	4280-81	1.0	306.		4.0	15.0	57.5	Do1 fx vuggy
100	4281-82	1.0	561.		12.0	9.2	34.2	Do1 fx vuggy
101	4282-83	1.0	223.		12.6	6.3	31.7	Do1 fx vuggy
102	4283-84	1.0	111.		11.7	5.1	35.6	Do1 fx vuggy
103	4284-85	1.0	94.		11.6	4.3	37.2	Do1 fx vuggy
104	4285-86	1.0	40.		12.3	6.5	31.1	Do1 fx vuggy
105	4286-87	1.0	58.		10.6	10.4	38.9	Do1 fx vuggy
106	4287-88	1.0	18.		6.2	9.7	35.5	Do1 fx vuggy
107	4288-89	1.0	66.		7.9	10.1	34.2	Do1 fx vuggy
108	4289-90	1.0	0.19		11.3	5.3	33.6	Do1 vfx Sh ptgs PPP
109	4290-91	1.0	1.4		10.1	16.8	35.7	Do1 vfx Sh ptgs PPP
110	4291-92	1.0	1.3		10.2	12.7	33.5	Do1 vfx Sh ptgs PPP

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
111	4292-93	1.0	0.52		17.8	15.2	51.7	Do1 vf-fx SV PPP
112	4293-94	1.0	0.23		17.9	14.5	48.6	Do1 vf-fx SV PPP
113	4294-95	1.0	0.53		18.3	8.2	41.5	Do1 vf-fx SV PPP
114	4295-96	1.0	0.21		10.7	12.1	54.2	Do1 vf-fx SV PPP
115	4296-97	1.0	0.08		11.1	4.5	75.7	Do1 vf-fx SV PPP
116	4297-98	1.0	33.		16.9	3.6	34.3	Do1 vf-fx SV PPP
117	4298-99	1.0	1.3		15.4	9.7	35.6	Do1 vf-fx SV PPP
118	4299-4300	1.0	6.5		16.2	19.1	34.1	Do1 vf-fx SV PPP
119	4300-01	1.0	14.		15.4	23.4	36.4	Do1 vf-fx SV PPP
120	4301-02	1.0	4.7		12.7	14.2	34.2	Do1 vf-fx SV PPP
121	4302-03	1.0	1.5		12.1	12.4	32.3	Do1 vf-fx SV PPP
122	4303-04	1.0	1.0		14.7	12.2	34.7	Do1 vf-fx SV PPP
123	4304-05	1.0	7.8		15.6	16.0	38.6	Do1 vf-fx SV PPP
124	4305-06	1.0	4.6		12.0	5.0	44.2	Do1 vf-fx SV PPP
125	4306-07	1.0	75.		12.6	8.7	31.9	Do1 vf-fx vuggy PPP
126	4307-08	1.0	18.		10.2	5.9	32.7	Do1 vf-fx vuggy PPP
127	4308-09	1.0	847.		10.4	4.8	35.6	Do1 vf-fx vuggy PPP RF
128	4309-10	1.0	3.9		12.0	4.2	38.3	Do1 vf-fx SV PPP
129	4310-11	1.0	2.0		15.2	7.9	45.4	Do1 vf-fx SV PPP
130	4311-12	1.0	701.		16.4	9.1	40.9	Do1 vf-fx vuggy PPP RF
131	4312-13	1.0	5.1		16.6	16.3	39.5	Do1 vf-fx SV PPP
132	4313-14	1.0	48.		10.5	16.2	42.9	Do1 vf-fx SV PPP RF
133	4314-15	1.0	1.4		14.4	19.4	32.2	Do1 vf-fx SV PPP
134	4315-16	1.0	3.9		15.7	8.3	34.9	Do1 vf-fx vuggy PPP
135	4316-17	1.0	269.		14.4	4.2	36.7	Do1 vf-fx vuggy PPP
136	4317-18	1.0	620.		11.9	5.0	31.8	Do1 vf-fx vuggy PPP
137	4318-19	1.0	2.7		12.6	10.3	49.2	Do1 vf-fx vuggy PPP
138	4319-20	1.0	4.3		15.7	3.8	38.9	Do1 vf-fx vuggy
139	4320-21	1.0	5.4		7.5	6.7	35.3	Do1 vfx SV PPP
140	4321-22	1.0	63.		4.2	21.0	63.8	Do1 d-vfx SV PPP VF

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OPERATOR

Martin Yates III

LAB NO.

715-II

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
141	4322-23	1.0	5.4		9.5	11.6	71.4	Do1 vfx SV PPP
142	4323-24	1.0	79.		17.9	7.8	39.1	Do1 vf-fx vuggy PPP
143	4324-25	1.0	12.		16.7	6.6	41.9	Do1 vf-fx vuggy PPP
144	4325-26	1.0	3.7		15.1	4.0	35.2	Do1 vf-fx SV PPP
145	4326-27	1.0	2.1		11.4	7.0	35.8	Do1 vf-fx SV PPP
146	4327-28	1.0	7.1		11.6	14.7	31.6	Do1 vf-fx SV PPP
			Core No. 6 4328-4343 (15 Ft.) Recovered 4328-4343 (15 Ft.)					
147	4328-29	1.0	73.		5.0	20.0	65.0	Do1 vfx sdy sc SV Sh ptgs PPP
148	4329-30	1.0	24.		6.1	8.2	45.9	Do1 vfx sdy sc SV Sh ptgs PPP
149	4330-31	1.0	0.17		7.5	9.3	36.7	Do1 vfx sdy sc SV Sh ptgs PPP
150	4331-32	1.0	1.7		5.0	16.0	38.0	Do1 vfx slty shy sdy tr PPP
151	4332-33	1.0	36.		6.5	12.3	44.6	Do1 vfx slty shy sdy tr PPP
152	4333-34	1.0	0.36		8.0	10.0	47.5	Vfg gray Ss slty shy dolo
153	4334-35	1.0	1.5		10.3	5.8	62.3	Vfg gray Ss slty shy dolo
154	4335-36	1.0	0.27		14.4	4.2	65.8	Vfg gray Ss slty shy dolo
155	4336-37	1.0	28.		20.0	2.5	52.0	Vfg gray Ss slty shy dolo
156	4337-38	1.0	1.1		16.1	7.5	46.1	Vfg gray Ss slty shy dolo
157	4338-39	1.0	1.6		9.1	5.5	41.8	Vfg gray Ss very shy very dolo
158	4339-40	1.0	7.8		7.4	6.8	70.7	Do1 d-vfx slty shy very sdy
159	4340-41	1.0	0.50		6.0	2.5	81.3	Do1 d CRF
160	4341-42	1.0	0.41		7.4	6.8	62.2	Vfg gray Ss slty shy dolo Pyr
161	4342-43	1.0	0.19		5.9	10.2	57.3	Do1 vfx sl sdy sc SV PPP
			Core No. 7 4343-4393 (50 Ft.) Recovered 4343-4393 (50 Ft.)					
162	4343-46	3.0	-		-	-	-	Do1 d Not Analyzed
163	4346-50	4.0	-		-	-	-	Do1 vfx Sh ptgs PPP Not Analyzed
164	4350-51	1.0	43.		7.9	7.6	46.8	Do1 vfx sc SV PPP MRF
165	4351-52	1.0	51.		7.0	14.3	45.7	Do1 vfx sc SV PPP MRF
166	4352-53	1.0	34.		10.9	11.9	34.9	Do1 vfx sc SV PPP MRF
167	4353-54	1.0	92.		16.3	9.8	38.7	Do1 fx-gran PPP

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OPERATOR

Martin Yates III

LAB NO. 715-II

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
166	4354-55	1.0	2.2		15.5	8.4	43.2	Do1 fx-gran PPP
167	4355-56	1.0	2.6		11.0	12.7	34.5	Do1 vfx sl gran PPP HF
168	4356-59	3.0	-		-	-	-	Do1 vfx Sh ptgs styo PPP Not Analyzed
169	4359-60	1.0	11.		12.5	12.0	39.2	Do1 vfx sl gran Sh ptgs PPP HF
169	4360-61	1.0	8.1		12.2	21.3	40.9	Do1 vfx sc SV PPP HF
170	4361-64	3.0	-		-	-	-	Do1 vfx Sh ptgs sc SV PPP Not Analyzed
170	4364-65	1.0	8.5		11.5	6.9	40.7	Do1 vfx sc SV PPP
171	4365-66	1.0	15.		12.7	10.2	38.6	Do1 vfx sc SV PPP VF
172	4366-67	1.0	21.		14.0	21.4	38.7	Do1 vfx sc SV PPP
173	4367-68	1.0	57.		14.4	17.3	59.7	Do1 vfx sc SV PPP MVF
174	4368-69	1.0	3.1		13.3	21.8	48.9	Do1 vfx sc SV PPP
175	4369-80	11.0	-		-	-	-	Do1 vfx Sh ptgs styo sc SV PPP NA
176	4380-81	1.0	3.2		8.2	26.8	40.2	Do1 vfx slty shy Sh ptgs PPP
177	4381-82	1.0	137.		14.5	19.3	32.1	Do1 vfx-gran sc SV PPP MRF
177	4382-83	1.0	110.		14.2	20.4	34.6	Do1 vfx-gran sc SV PPP HF
178	4383-84	1.0	4.3		12.4	20.1	41.5	Do1 vfx sc SV PPP
179	4384-85	1.0	11.		9.5	29.5	39.6	Do1 vfx sc SV PPP HF
	4385-93	8.0	-		-	-	-	Do1 vfx styo Sh ptgs sc SV sc PPP NA
180	4393-94	1.0	0.36		14.1	19.1	43.4	Do1 vfx sc SV PPP
181	4394-4402	8.0	-		-	-	-	Do1 vfx tr SV tr PPP styo RF Not Analyzed
181	4402-03	1.0	9.9		14.5	10.3	38.3	Do1 vfx sc SV PPP
182	4403-04	1.0	199.		10.3	15.5	40.3	Do1 vfx sc SV PPP HF
183	4404-10	6.0	-		-	-	-	Do1 d sc Sh ptgs tyo RF Not Analyzed
183	4410-11	1.0	4.3		12.2	13.9	38.7	Do1 vfx sc SV PPP
184	4411-15	4.0	-		-	-	-	Do1 vfx tr SV tr PPP styo MRF NA
185	4415-16	1.0	77.		10.9	7.3	34.8	Do1 vfx sc SV PPP
185	4416-17	1.0	27.		9.0	8.9	30.0	Do1 vfx sc SV PPP
186	4417-18	1.0	2.8		8.3	13.3	39.3	Do1 vfx sc SV PPP
187	4418-19	1.0	2.2		11.9	10.9	34.5	Do1 vfx sc SV PPP
188	4419-20	1.0	679.		8.6	13.3	34.9	Do1 vfx sc SV vuggy PPP
189	4420-21	1.0	6.5		12.1	16.5	30.7	Do1 vfx sc SV PPP
190	4421-22	1.0	32.		9.1	15.4	32.9	Do1 vfx sc SV PPP

Core No. 8 4393-4441 (48 Ft.)
Recovered 4393-4441 (48 Ft.)

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OPERATOR

Martin Yates III

LAB NO. 715-II

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
191	4422-23	1.0	6.7		13.4	15.7	34.6	Do1 vfx sc SV PPP
192	4423-24	1.0	33.		12.7	11.3	39.1	Do1 vfx sc SV PPP MVF
	4424-28	4.0	-		-	-	-	Do1 vfx sc SV sc PPP styo MRF NA
193	4428-29	1.0	1.0		14.4	4.9	30.8	Do1 vfx sc SV PPP
194	4429-30	1.0	3.7		6.3	9.2	39.7	Do1 vfx vuggy PPP
195	4430-31	1.0	4.0		16.7	12.4	35.1	Do1 vfx sc SV PPP
196	4431-32	1.0	7.3		15.3	16.9	34.6	Do1 vfx sc SV PPP
197	4432-33	1.0	0.10		7.8	13.1	60.3	Do1 vfx sc SV PPP
198	4433-34	1.0	2.3		3.5	14.3	71.3	Do1 vfx sc SV PPP
199	4434-35	1.0	2.8		3.4	13.5	70.4	Do1 vfx sc SV PPP
200	4435-36	1.0	4.0		6.7	10.3	75.0	Do1 vfx sc SV PPP
201	4436-37	1.0	88.		12.3	8.9	34.6	Do1 vfx vuggy PPP
202	4437-38	1.0	5.1		12.8	6.3	31.7	Do1 vfx vuggy PPP
203	4438-39	1.0	1.4		11.0	10.0	40.9	Do1 vfx vuggy PPP
204	4439-40	1.0	25.		10.9	5.5	34.8	Do1 vfx sc SV PPP
205	4440-41	1.0	14.		13.7	3.6	37.3	Do1 vfx sc SV PPP
			Core No. 9 4441-4462 (21 Ft.)					
			Recovered 4441-4462 (21 Ft.)					
206	4441-42	1.0	21.		14.3	9.8	37.5	Do1 vfx sc SV PPP
207	4442-43	1.0	1.5		11.7	15.4	32.2	Do1 vfx sc SV PPP
208	4443-44	1.0	28.		13.1	6.1	31.5	Do1 vfx sc SV PPP
209	4444-45	1.0	43.		13.4	9.7	38.9	Do1 vfx tr PPP
210	4445-46	1.0	4.8		8.3	9.6	36.5	Do1 vfx sc SV PPP
211	4446-47	1.0	5.4		7.5	6.7	32.0	Do1 vfx sc SV PPP
212	4447-48	1.0	1.6		6.9	10.3	34.6	Do1 vfx sc SV PPP
213	4448-49	1.0	44.		8.0	13.7	30.0	Do1 vfx sc SV PPP MVF
214	4449-50	1.0	19.		10.1	10.8	44.6	Do1 vfx sc SV PPP MVF
215	4450-51	1.0	2.4		18.5	2.7	31.8	Do1 vfx vuggy PPP MRF
216	4451-52	1.0	55.		7.4	10.2	55.4	Do1 vfx vuggy PPP MRF
217	4452-53	1.0	62.		8.8	14.8	35.2	Do1 vfx sc SV PPP
218	4453-54	1.0	78.		8.7	18.3	37.2	Do1 vfx sc SV PPP
219	4454-55	1.0	16.		10.9	10.1	35.6	Do1 vfx sc SV PPP
220	4455-56	1.0	4.3		10.7	18.0	43.4	Do1 vfx sc SV PPP

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LAB NO. 715-II

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
221	4456-57	1.0	35.		8.9	13.5	43.7	Dol vfx sc SV PPP
222	4457-58	1.0	38.		7.7	11.2	33.4	Dol vfx sc SV PPP MRF
223	4458-59	1.0	36.		6.6	10.9	31.8	Dol vfx sc SV PPP VF
224	4459-60	1.0	6.5		5.8	8.6	32.8	Dol vfx vuggy PPP VF
225	4460-61	1.0	85.		9.3	8.4	38.7	Dol vfx vuggy PPP CMF
226	4461-62	1.0	668.		12.3	14.6	40.6	Dol vfx vuggy PPP VF