

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

PHILLIPS PETROLEUM COMPANY

EVGSA UNIT NO. 2739-005
EAST VACUUM
LEA COUNTY, NEW MEXICO

PRELIMINARY PRINT

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005
 EAST VACUUM
 LEA COUNTY, NEW MEXICO

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES
 DRLG. FLUID: WATER BASE MUD
 LOCATION : 1330' FSL & 1380' FWL, SEC 27, T-17-S, R-35-E

FILE NO : 3202-11172
 ANALYSTS : GOUSEY
 ELEVATION: 3940.5' M

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. Hg	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
CORE NO. 1 4345.0-4605.0 CUT 60' REC 60'								
1	4345.0-46.0	<0.1	<0.1	6.3	19.5	44.9	2.80	DOL,SL/ANHY,STY,SL/F,SL/V
2	4346.0-47.0	<0.1	<0.1	3.5	8.5	68.1	2.81	DOL,SL/ANHY,STY,SL/F,SL/V
3	4347.0-48.0	<0.1	<0.1	2.0	24.1	35.7	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
4	4348.0-49.0	0.2	<0.1	1.7	29.8	37.2	2.85	DOL,SL/ANHY,STY,SL/V,V/F
5	4349.0-50.0	<0.1	<0.1	1.6	14.1	43.0	2.85	DOL,SL/ANHY,STY,F,SL/V
6	4350.0-51.0	<0.1	<0.1	1.7	20.5	56.8	2.83	DOL,SL/ANHY,STY,F
7	4351.0-52.0	<0.1	<0.1	2.8	4.8	79.4	2.82	DOL,SL/ANHY,STY,SL/F,SL/V
8	4352.0-53.0	0.1	<0.1	3.5	9.1	45.5	2.82	DOL,ANHY,STY,SL/F,SL/V
9	4353.0-54.0	<0.1	<0.1	4.8	13.2	37.9	2.84	DOL,ANHY,STY,SL/F
10	4354.0-55.0	<0.1	<0.1	6.2	13.4	42.1	2.81	DOL,SL/ANHY,SHY,STY
11	4355.0-56.0	<0.1	<0.1	4.9	15.3	48.7	2.78	DOL,SL/ANHY,SHY,STY
12	4356.0-57.0	<0.1	<0.1	3.7	6.4	61.8	2.85	DOL,ANHY,STY,F,SH LAM
13	4357.0-58.0	<0.1	<0.1	4.2	8.3	71.1	2.83	DOL,ANHY,STY,SL/F,SL/V
14	4358.0-59.0	0.1	<0.1	3.8	20.5	47.3	2.84	DOL,ANHY,STY,F,SL/V
15	4359.0-60.0	<0.1	<0.1	3.6	8.1	69.5	2.82	DOL,ANHY,STY,SL/F,SL/V
16	4360.0-61.0	0.3	<0.1	3.7	5.7	53.5	2.87	DOL,ANHY,STY,SL/F,SL/V
17	4361.0-62.0	<0.1	<0.1	2.5	36.4	28.9	2.83	DOL,SL/ANHY,STY,F,SL/V
18	4362.0-63.0	0.5	<0.1	3.5	18.4	57.8	2.87	DOL,ANHY,STY,F
19	4363.0-64.0	<0.1	<0.1	1.7	17.5	43.7	2.84	DOL,ANHY,STY,F,SL/V
20	4364.0-65.0	<0.1	<0.1	3.3	7.3	34.3	2.86	DOL,ANHY,STY,F,SL/V
21	4365.0-66.0	<0.1	<0.1	1.9	13.0	25.4	2.89	DOL,V/ANHY,STY,F
22	4366.0-67.0	<0.1	<0.1	2.2	19.0	24.6	2.90	DOL,V/ANHY,STY,F
23	4367.0-68.0	<0.1	<0.1	4.2	10.3	28.6	2.84	DOL,ANHY,STY,F,V
24	4368.0-69.0	<0.1	<0.1	3.8	6.4	23.0	2.86	DOL,SL/ANHY,STY,F,V
25	4369.0-70.0	<0.1	<0.1	4.1	5.8	31.9	2.84	DOL,ANHY,STY,F,V

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Petroleum Reservoir Engineering
DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-1152
ANALYSTS : GORDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
26	4370.0-71.0	<0.1	<0.1	4.7	4.0	40.2	2.82	DOL,SL/ANHY,STY,SL/F,SL/V
27	4371.0-72.0	0.1	<0.1	2.9	8.5	46.9	2.83	DOL,SL/ANHY,STY,SL/F,SL/V
28	4372.0-73.0	<0.1	<0.1	4.7	7.6	26.8	2.87	DOL,ANHY,STY,SL/F,SL/V
29	4373.0-74.0	<0.1	<0.1	4.8	10.4	20.2	2.82	DOL,ANHY,STY,SL/F,SL/V,DO
30	4374.0-75.0	<0.1	<0.1	3.1	19.4	24.2	2.84	DOL,ANHY,F,V
31	4375.0-76.0	<0.1	<0.1	2.9	11.4	34.8	2.85	DOL, ANHY,STY,SL/F,SL/V,SH LAM
32	4376.0-77.0	<0.1	<0.1	3.1	11.9	41.9	2.86	DOL,ANHY,STY,SL/F,SL/V
33	4377.0-78.0	<0.1	<0.1	3.8	15.0	21.7	2.83	DOL,ANHY,STY,SL/F,V,DO
34	4378.0-79.0	<0.1	<0.1	3.1	34.6	61.5	2.84	DOL,SL/ANHY,STY,F,SL/V,FOSS
35	4379.0-80.0	<0.1	<0.1	2.8	29.1	32.4	2.85	DOL,SL/ANHY,STY,SL/F,SL/V
36	4380.0-81.0	<0.1	<0.1	3.4	35.1	22.7	2.87	DOL,ANHY,STY,SL/F,SL/V
37	4381.0-82.0	<0.1	<0.1	1.1	35.1	39.0	2.88	DOL,ANHY,STY,SL/F
38	4382.0-83.0	<0.1	<0.1	1.6	13.0	29.0	2.90	DOL,V/ANHY,STY,F
39	4383.0-84.0	<0.1	<0.1	2.9	23.6	21.8	2.85	DOL,ANHY,STY,F,SL/V
40	4384.0-85.0	0.3	0.2	5.8	10.0	20.0	2.86	DOL,ANHY,STY,SL/V,F,DO
41	4385.0-86.0	0.1	<0.1	3.9	11.8	26.1	2.89	DOL,V/ANHY,STY,F,SL/V
42	4386.0-87.0	0.1	<0.1	5.8	4.5	16.0	2.88	DOL,ANHY,STY,F,DO,SL/V
43	4387.0-88.0	<0.1	<0.1	4.6	24.2	28.6	2.87	DOL,ANHY,STY,SL/F,V,FOSS,DO
44	4388.0-89.0	<0.1	<0.1	1.8	8.3	55.0	2.89	DOL,ANHY,STY,SL/F
45	4389.0-90.0	<0.1	<0.1	2.1	23.1	29.9	2.88	DOL,ANHY,STY,SL/F,DO
46	4390.0-91.0	0.3	<0.1	7.1	12.2	16.9	2.88	DOL,ANHY,STY,SL/F,SL/V,FOSS,DO
47	4391.0-92.0	<0.1	<0.1	5.3	16.7	48.1	2.88	DOL,SL/ANHY,STY,SL/F,FOSS,DO
48	4392.0-93.0	<0.1	<0.1	2.4	8.9	46.8	2.84	DOL,ANHY,STY,SL/F,V,FOSS
49	4393.0-94.0	<0.1	<0.1	5.2	12.3	31.5	2.82	DOL,ANHY,STY,SL/V,F,FOSS
50	4394.0-95.0	0.3	<0.1	5.8	18.8	32.5	2.84	DOL,SL/ANHY,STY,SL/V,F
51	4395.0-96.0	0.1	<0.1	5.0	32.0	35.6	2.85	DOL,SL/ANHY,STY,F
52	4396.0-97.0	2.0	0.3	4.8	19.7	34.1	2.81	DOL,SL/ANHY,STY,V/F,SL/V
53	4397.0-98.0	11.	0.3	3.3	17.1	40.3	2.84	DOL,ANHY,STY,SL/F,V,FOSS
54	4398.0-98.5	0.1	<0.1	3.3	14.4	37.4	2.85	DOL,SL/ANHY,STY,V,F,FOSS
	4398.5-04.0							DOL,ANHY,SL/F,F,FXLN,DNS

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
 ANALYSTS : GONSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
55	4404.0-05.0	<0.1	<0.1	1.0	20.5	51.1	2.87 DOL,SL/ANHY,STY,F,FOSS
CORE NO. 2 4405.0-4465.0 CUT 60' REC 60'							
56	4405.0-06.0	0.5	0.1	2.6	5.7	50.3	2.85 DOL,ANHY,V/F,SL/V
57	4406.0-07.0	1.0	0.5	2.8	11.8	52.3	2.82 DOL,SL/ANHY,V/F
58	4407.0-08.0	0.2	0.1	3.1	8.9	27.1	2.86 DOL,SL/ANHY,F,V
59	4408.0-09.0	0.6	0.3	2.1	6.5	39.6	2.85 DOL,F,V
60	4409.0-10.0	0.1	0.1	2.4	15.3	42.4	2.87 DOL,SL/ANHY,V,SL/F
61	4410.0-11.0	0.8	0.2	1.3	32.9	42.7	2.87 DOL,ANHY,SL/F,V
62	4411.0-12.0	0.2	0.1	1.9	32.1	32.1	2.86 DOL,ANHY,F,SL/V
63	4412.0-13.0	1.2	0.5	1.9	18.4	45.9	2.84 DOL,SL/ANHY,V/F
64	4413.0-14.0	0.3	0.2	1.3	37.5	33.1	2.85 DOL,F,SL/V
65	4414.0-15.0	0.1	<0.1	4.6	41.9	19.4	2.85 DOL,SL/F,PP
66	4415.0-16.0	0.3	0.2	2.9	49.0	23.8	2.87 DOL,ANHY,V/F,PP
67	4416.0-17.0	57.	1.5	5.7	22.8	22.5	2.88 DOL,ANHY,SL/F,SL/V
68	4417.0-18.0	69.	9.3	10.8	15.3	35.3	2.84 DOL,SL/ANHY,V/F,SL/V
69	4418.0-19.0	12.	4.1	6.4	25.9	29.0	2.84 DOL,ANHY,V/F,SL/V
70	4419.0-20.0	23.	2.6	6.4	19.9	31.8	2.88 DOL,SL/ANHY,SL/F,PP
71	4420.0-21.0	57.	14.	10.5	32.8	30.7	2.88 DOL,ANHY,PP,SL/F,V/F
72	4421.0-22.0	26.	18.	14.6	18.2	35.8	2.86 DOL,ANHY,SL/F,PP
73	4422.0-23.0	5.4	2.6	10.0	19.7	32.8	2.83 DOL,ANHY,SL/V,SL/F
74	4423.0-24.0	13.	4.4	11.5	29.6	26.2	2.85 DOL,SL/F,SL/V
75	4424.0-25.0	8.9	0.8	6.7	26.0	30.7	2.84 DOL,ANHY,V/F,SL/V
76	4425.0-26.0	4.9	3.0	7.3	17.8	30.7	2.85 DOL,ANHY,V/F,V
77	4426.0-27.0	6.6	4.4	6.4	28.0	25.4	2.85 DOL,SL/ANHY,V/F,SL/V
78	4427.0-28.0	22.	16.	5.5	20.5	39.8	2.85 DOL,SL/ANHY,SL/F,SL/V,STY
79	4428.0-29.0	6.8	1.3	6.3	48.6	31.1	2.84 DOL,SL/ANHY,V/F
80	4429.0-30.0	1.6	0.3	2.4	15.9	55.3	2.84 DOL,SL/ANHY,V/F,STY
81	4430.0-31.0	0.7	0.6	2.3	19.9	44.2	2.85 DOL,SL/ANHY,V/F,V

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Petroleum Reservoir Engineering
DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-1152
ANALYSTS : GORSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	TO AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
82	4431.0-32.0	0.5	0.2	1.5	31.0	46.0	2.87	DOL, ANHY, V/F, STY
83	4432.0-33.0	56.	50.	19.4	11.9	40.2	2.85	DOL, ANHY, DOL, STY
84	4433.0-34.0	142.	87.	19.8	15.3	45.8	2.89	DOL, ANHY, DOL, V/F
85	4434.0-35.0	46.	44.	15.0	21.4	29.5	2.87	DOL, ANHY, SL/F, DOL
86	4435.0-36.0	37.	32.	15.1	23.0	26.5	2.87	DOL, SL/ANHY, V/F, DOL
87	4436.0-37.0	47.	35.	17.5	18.7	29.9	2.88	DOL, SL/ANHY, V/F, DOL
88	4437.0-38.0	51.	42.	20.3	29.4	23.6	2.88	DOL, SL/ANHY, V/F, DOL
89	4438.0-39.0	67.	53.	16.4	14.9	37.5	2.83	DOL, SL/ANHY, V/F, DOL
90	4439.0-40.0	51.	8.5	12.2	27.7	20.7	2.86	DOL, ANHY, V/F, DOL
91	4440.0-41.0	69.	54.	14.0	31.7	26.9	2.85	DOL, SL/ANHY, V/F, DOL
92	4441.0-42.0	58.	34.	15.1	17.1	29.6	2.86	DOL, SL/F, DOL
93	4442.0-43.0	14.	*	16.4	30.7	28.4	2.87	DOL, SL/ANHY, DOL, V/F
94	4443.0-44.0	94.	82.	15.0	18.8	27.8	2.83	DOL, SL/ANHY, V/F, DOL, STY
95	4444.0-45.0	80.	55.	12.7	24.0	25.1	2.84	DOL, SL/ANHY, STY, V/F, DOL
96	4445.0-46.0	91.	76.	16.8	19.3	27.1	2.85	DOL, SL/ANHY, DOL, SL/F
97	4446.0-47.0	81.	64.	19.1	24.1	22.6	2.86	DOL, SL/ANHY, SL/F, DOL
98	4447.0-48.0	125.	57.	17.3	27.5	21.8	2.87	DOL, SL/ANHY, SL/V, F, DOL
99	4448.0-49.0	33.	19.	9.4	34.2	26.3	2.88	DOL, ANHY, V/F, DOL
100	4449.0-50.0	167.	99.	13.7	23.9	23.0	2.87	DOL, ANHY, V/F, DOL
101	4450.0-51.0	62.	37.	14.1	13.3	30.9	2.84	DOL, ANHY, V/F, SL/V, DOL
102	4451.0-52.0	47.	27.	8.2	20.1	24.9	2.84	DOL, SL/ANHY, STY, V/F
103	4452.0-53.0	108.	80.	13.2	16.7	29.6	2.83	DOL, SL/ANHY, STY, V/F
104	4453.0-54.0	72.	62.	14.7	10.1	36.5	2.85	DOL, SL/F, SL/V, STY
105	4454.0-55.0	18.	9.3	10.1	21.4	33.8	2.82	DOL, SL/ANHY, V/F, FOSS
106	4455.0-56.0	2.5	0.8	7.2	19.1	43.6	2.81	DOL, SL/ANHY, F, V
107	4456.0-57.0	2.9	2.1	5.8	14.7	39.7	2.82	DOL, SL/ANHY, FOSS, F, V
108	4457.0-58.0	1.1	1.0	3.1	23.1	55.6	2.84	DOL, SL/ANHY, V/F, SL/V
109	4458.0-59.0	0.9	0.8	4.5	49.7	26.0	2.86	DOL, SL/ANHY, V/F, V
110	4459.0-60.0	1.7	0.4	3.8	26.5	33.6	2.88	DOL, V/F, STY
111	4460.0-61.0	0.2	0.2	1.4	8.3	73.4	2.84	DOL, SL/F

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DALLAS, TEXAS

PAGE 5

PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-1152
ANALYSTS : GONSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
112	4461.0-62.0	0.1	<0.1	3.0	14.1	50.8	2.87	DOL,STY,SL/F
113	4462.0-63.0	1.3	0.5	2.6	31.0	34.5	2.85	DOL,SL/V,V/F
114	4463.0-64.0	11.	11.	7.8	26.8	27.5	2.84	DOL,V/F,STY
115	4464.0-65.0	21.	16.	7.5	26.0	27.3	2.84	DOL,V/F,V
CORE NO. 3 4465.0-4525.0 CUT 60' REC 60'								
116	4465.0-66.0	70.	69.	13.8	29.7	24.7	2.81	DOL,SL/F,SL/V
117	4466.0-67.0	0.5	0.4	7.1	46.9	30.6	2.77	DOL,SL/F,SL/V,SHR
118	4467.0-68.0	0.4	0.3	3.0	32.0	44.4	2.80	DOL,SL/F,SL/V,STY,SHR
119	4468.0-69.0	1.7	1.6	2.5	13.4	56.9	2.82	DOL,SL/F,SL/V
120	4469.0-70.0	1.1	1.0	1.4	8.3	73.4	2.83	DOL,SL/ANHY,SL/F,SL/V,STY
121	4470.0-71.0	0.9	0.8	2.3	24.7	51.4	2.82	DOL,SL/F,SL/V,STY
122	4471.0-72.0	3.5	0.4	3.2	13.5	48.9	2.81	DOL,SL/ANHY,SL/V,V/F
123	4472.0-73.0	1.8	0.8	2.9	31.0	45.3	2.83	DOL,SL/ANHY,V/F,SHR
124	4473.0-74.0	8.0	6.8	0.9	28.6	39.7	2.86	DOL,SL/V,STY,V/F
	4474.0-79.0							DOL,ANHY,SHY,STY,DNS
125	4479.0-80.0	38.	26.	7.5	29.1	36.4	2.81	DOL,ANHY,STY,SL/F
126	4480.0-81.0	154.	128.	16.1	24.5	26.1	2.86	DOL,SL/ANHY,PP,SL/F
127	4481.0-82.0	125.	116.	14.1	23.2	27.6	2.81	DOL,SL/ANHY,STY,DOL
128	4482.0-83.0	33.	31.	11.2	13.4	31.3	2.83	DOL,V/F,DOL
129	4483.0-84.0	40.	40.	5.2	35.3	37.3	2.82	DOL,SL/ANHY,V/F,SL/V
130	4484.0-85.0	0.6	*	3.2	12.9	65.2	2.82	DOL,ANHY,V/F,STY,SL/V
131	4485.0-86.0	75.	*	12.2	15.7	43.5	2.85	DOL,ANHY,V/F,SL/V
132	4486.0-87.0	77.	*	16.4	33.8	30.8	2.83	DOL,ANHY,V/F
133	4487.0-88.0	65.	*	13.6	42.1	26.1	2.84	DOL,SL/ANHY,V/F,DOL,STY
134	4488.0-89.0	76.	73.	20.4	21.6	27.8	2.86	DOL,SL/ANHY,PP
135	4489.0-90.0	61.	51.	16.5	28.7	33.2	2.81	DOL,STY,PP
136	4490.0-91.0	42.	37.	19.6	34.1	23.2	2.84	DOL,SL/ANHY,SL/V
137	4491.0-92.0	50.	41.	20.1	22.5	27.9	2.82	DOL,SL/ANHY,STY

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
EVG6SA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
ANALYSTS : GORSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	TO AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
138	4492.0-93.0	12.	*	15.9	20.8	49.1	2.80	DOL,SL/ANHY,V/F,SHR,SL/V
139	4493.0-94.0	54.	*	15.7	18.2	32.9	2.81	DOL,V/F,STY,SL/V
140	4494.0-95.0	39.	28.	14.4	48.3	20.1	2.75	DOL,SHR,PP,FOS
141	4495.0-96.0	38.	3.5	8.8	20.3	29.8	2.78	DOL,SHR,STY,FOS,SL/F,V
142	4496.0-97.0	8.2	4.7	7.7	25.8	37.6	2.79	DOL,SHR,SL/V,V/F
143	4497.0-98.0	45.	35.	6.5	40.1	42.8	2.80	DOL,SHR,SL/V,V/F
144	4498.0-99.0	2.5	2.1	3.6	32.9	42.7	2.86	DOL,SL/V,V/F
145	4499.0-00.0	1.1	0.7	1.2	20.5	56.8	2.83	DOL,SL/V,V/F
	4500.0-08.0							DOL,ANHY,SHY,SH LAM,DNS
	4508.0-09.0							DOL,V/F
146	4509.0-25.0	3.2	3.0	3.5	33.3	37.0	2.84	DOL,SHY,SH LAM,STY,SL/F,DNS
CORE NO. 4 4525.0-4585.0 CUT 60' REC 60'								
147	4525.0-27.5	0.4	0.3	2.7	45.4	46.2	2.85	DOL,SHY,DNS
148	4527.5-28.0	4.1	3.2	3.0	8.7	57.7	2.86	DOL,SL/ANHY,SL/F,STY
149	4529.0-30.0	<0.1	*	2.6	42.7	49.4	2.82	DOL,STY,SH LAM,SL/F
150	4530.0-31.0	<0.1	*	1.3	33.3	55.6	2.81	DOL,STY,F
151	4531.0-32.0	0.1	<0.1	1.7	37.5	55.6	2.84	DOL,SL/F,SH LAM
	4532.0-36.5							DOL,SHY,STY,DNS
152	4536.5-37.0	0.4	0.3	2.4	31.0	34.5	2.89	DOL,SL/F,STY
	4537.0-59.0							DOL,SL/SHY,STY,DNS
153	4559.0-60.0	1.0	0.9	2.5	34.6	34.6	2.84	DOL,STY,SL/F
154	4560.0-61.0	0.4	0.3	1.7	18.4	63.8	2.84	DOL,SL/ANHY,SL/F
155	4561.0-62.0	0.1	<0.1	2.1	7.3	64.5	2.86	DOL,SL/ANHY,SL/F
156	4562.0-63.0	<0.1	<0.1	1.5	9.1	50.5	2.86	DOL,ANHY,STY,SL/F
157	4563.0-64.0	0.2	0.2	4.2	17.5	32.4	2.85	DOL,SL/ANHY,STY,SL/F
158	4564.0-65.0	0.4	0.3	8.0	7.2	28.9	2.85	DOL,SHR,STY,SL/F,DOL
159	4565.0-66.0	0.4	0.3	5.5	23.3	29.2	2.86	DOL,SL/ANHY,F,SL/V

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 7

PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11150
 ANALYSTS : GORDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
S 160	4566.0-67.0	<0.1	*	1.6	16.7	37.0	2.87	DOL,SL/ANHY,F
S 161	4567.0-68.0	0.3	0.3	2.0	27.8	30.9	2.84	DOL,SL/ANHY,F,SL/V
S 162	4568.0-69.0	0.4	0.2	2.9	34.0	34.6	2.85	DOL,SL/ANHY,SL/F,SL/V
S 163	4569.0-70.0	0.4	0.3	3.5	18.7	38.1	2.86	DOL,SL/ANHY,F,STY,SL/V
S 164	4570.0-71.0	3.3	*	15.3	11.4	57.8	2.83	DOL,SL/ANHY,STY,00L
S 165	4571.0-72.0	3.9	3.4	15.3	29.3	19.6	2.87	DOL,SL/ANHY,00L
S 166	4572.0-73.0	42.	27.	14.6	22.8	22.3	2.85	DOL,SL/ANHY,00L
S 167	4573.0-74.0	15.	13.	12.7	27.0	21.2	2.85	DOL,SL/ANHY,00L
S 168	4574.0-75.0	13.	13.	12.5	19.9	25.7	2.85	DOL,SL/ANHY,00L
S 169	4575.0-76.0	12.	11.	9.1	21.9	21.7	2.84	DOL,SL/ANHY,00L
S 170	4576.0-78.0	5.4	4.6	10.5	27.9	20.9	2.85	DOL,SL/ANHY,F,00L,STY
S 171	4577.0-78.0	6.0	5.9	10.9	20.7	23.7	2.84	DOL,SL/ANHY,SL/V
S 172	4578.0-79.0	6.9	5.5	8.4	22.6	28.6	2.84	DOL,SL/ANHY,SL/F,V
S 173	4579.0-80.0	7.2	0.4	4.7	18.4	69.7	2.83	DOL,SL/ANHY,F
S 174	4580.0-81.0	0.7	0.6	5.0	14.3	51.8	2.87	DOL,SL/ANHY,SL/F,SL/V
S 175	4581.0-82.0	19.	*	11.9	40.8	31.5	2.83	DOL,SL/ANHY,SL/V
S 176	4582.0-83.0	11.	10.	18.5	26.9	22.1	2.86	DOL,SL/ANHY,PP
S 177	4583.0-84.0	17.	*	9.9	23.9	54.5	2.84	DOL,SL/ANHY,PP
S 178	4584.0-85.0	7.7	*	9.2	25.9	45.3	2.85	DOL,SL/ANHY,F
CORE NO. 5 4585.0-4645.0 CUT 60' REC 60'								
S 179	4585.0-86.0	51.	4.8	9.0	27.5	25.4	2.84	DOL,ANHY,SL/V,F
S 180	4586.0-87.0	51.	49.	13.6	25.9	20.6	2.87	DOL,SL/ANHY
S 181	4587.0-88.0	34.	34.	15.6	10.6	36.5	2.86	DOL,SL/ANHY,PP,STY
S 182	4588.0-89.0	38.	38.	17.9	19.2	26.1	2.86	DOL,PP,SL/F,STY
S 183	4589.0-90.0	36.	73.	20.3	17.9	26.0	2.87	DOL,SL/ANHY,PP,SL/V,STY
S 184	4590.0-91.0	31.	27.	20.1	27.7	24.4	2.87	DOL,STY,PP,SL/V
S 185	4591.0-92.0	3.8	*	11.8	37.2	40.4	2.83	DOL,SL/ANHY
S 186	4592.0-93.0	6.1	5.9	17.2	18.1	33.1	2.84	DOL,SL/F

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 8

PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
 ANALYSTS : GUDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
187	4593.0-94.0	23.	*	16.8	29.8	22.4	2.81	DOL,SL/ANHY,FP
188	4594.0-95.0	7.4	5.9	14.7	28.4	34.0	2.84	DOL,SL/ANHY,SDY,SL/V
189	4595.0-96.0	2.8	2.8	12.5	24.3	32.4	2.85	DOL,SL/ANHY,V,FOSS
190	4596.0-97.0	1.2	1.2	10.0	16.5	28.0	2.84	DOL,SL/ANHY,V,STY,FOSS
191	4597.0-98.0	1.0	0.9	9.6	9.3	25.9	2.85	DOL,SL/ANHY,FOSS,SL/V,STY
192	4598.0-99.0	1.1	0.8	8.4	17.9	24.9	2.85	DOL,SL/ANHY,V,STY,FOSS
193	4599.0-00.0	0.8	*	6.5	15.6	42.2	2.85	DOL,SL/ANHY,SL/V,SL/F,STY
194	4600.0-01.0	0.7	0.6	3.2	6.0	33.6	2.87	DOL,SL/ANHY
195	4601.0-02.0	0.9	0.8	4.6	13.9	36.0	2.85	DOL,SL/ANHY,STY
196	4602.0-03.0	0.2	0.2	3.7	24.2	37.0	2.84	DOL,SL/ANHY,SL/F,STY
197	4603.0-04.0	0.4	0.4	4.2	3.1	51.0	2.85	DOL,STY
198	4604.0-05.0	0.5	0.3	4.9	3.2	43.0	2.85	DOL,SL/ANHY,STY,SL/F
199	4605.0-06.0	0.4	0.4	5.0	13.8	44.6	2.85	DOL,SL/ANHY,STY,FP
200	4606.0-07.0	0.4	0.3	5.4	6.6	36.4	2.84	DOL,SL/ANHY,STY
201	4607.0-08.0	0.4	0.4	5.6	26.5	36.8	2.85	DOL,SL/ANHY,STY
202	4608.0-09.0	<0.1	<0.1	5.3	17.8	51.5	2.83	DOL,SL/ANHY,STY
203	4609.0-10.0	0.1	<0.1	4.9	14.4	56.1	2.84	DOL,SL/ANHY,STY
204	4610.0-11.0	<0.1	<0.1	2.7	5.3	59.2	2.85	DOL,SL/ANHY,STY
205	4611.0-12.0	0.6	0.1	3.7	14.3	47.6	2.86	DOL,ANHY,STY
206	4612.0-13.0	5.9	5.9	4.7	8.1	60.2	2.84	DOL,SL/V,STY
207	4613.0-14.0	0.8	0.2	4.5	31.0	25.9	2.86	DOL,SL/ANHY,SL/V,STY,SL/F
208	4614.0-15.0	0.6	0.5	4.7	21.4	44.5	2.83	DOL,SL/V,FP,STY,FP
209	4615.0-16.0	1.1	0.5	6.2	13.4	34.7	2.83	DOL,SL/FP,STY
210	4616.0-17.0	0.9	0.2	3.2	9.1	60.6	2.83	DOL,SL/FP,SL/V,STY
211	4617.0-18.0	<0.1	*	2.8	4.1	36.5	2.84	DOL,SL/ANHY,STY,SL/V
212	4620.0-21.0	0.7	0.6	5.6	14.2	30.3	2.83	DOL,ANHY,DNS
213	4621.0-24.0	0.3	0.2	3.2	14.1	39.1	2.87	DOL,SL/ANHY,FP,STY
214	4625.0-26.0	4.5	1.4	5.6	5.9	38.0	2.84	DOL,ANHY,STY

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 9

PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
 ANALYSTS : GORSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	TO AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
S 215	4626.0-27.0	0.2	<0.1	2.8	11.4	44.3	2.84	DOL,SL/ANHY,SL/V,F,STY
S 216	4627.0-28.0	0.3	0.2	2.2	21.3	35.4	2.86	DOL,SL/ANHY,STY,SL/V
217	4628.0-29.0	1.1	0.4	3.3	19.7	51.1	2.85	DOL,ANHY,STY,SL/F
	4629.0-33.0							DOL,ANHY,INS
S 218	4633.0-34.0	0.2	0.2	2.8	13.0	39.9	2.85	DOL,ANHY,STY
S 219	4634.0-35.0	0.1	0.1	2.7	4.8	60.8	2.88	DOL,V/ANHY,STY
S 220	4635.0-36.0	3.9	1.1	7.9	17.3	25.2	2.86	DOL,SL/ANHY,STY,SL/F
S 221	4636.0-37.0	10.	5.6	8.9	22.3	19.4	2.87	DOL,SL/ANHY,STY,SL/F,PP
S 222	4637.0-38.0	2.0	0.2	2.1	19.4	75.3	2.85	DOL,SL/ANHY,STY,SL/F
S 223	4638.0-39.0	0.2	<0.1	6.1	15.8	62.3	2.85	DOL,ANHY,STY,PP,SL/F
S 224	4639.0-40.0	2.8	0.3	5.0	4.1	2.8	2.85	DOL,SL/ANHY,SL/F,STY,SL/V
S 225	4640.0-41.0	5.5	5.2	7.6	4.5	67.0	2.84	DOL,SL/ANHY,SL/V,PP,SL/F,STY
S 226	4641.0-42.0	67.	67.	14.3	19.5	40.2	2.87	DOL,STY,PP
S 227	4642.0-43.0	52.	51.	11.8	14.9	39.6	2.83	DOL,SL/ANHY,STY,PP
S 228	4643.0-44.0	3.0	2.6	7.7	3.9	92.9	2.82	DOL,SL/ANHY,STY,F,SL/V,PP
S 229	4644.0-45.0	64.	*	15.2	24.4	18.6	2.82	DOL,PP,SL/V
CORE NO. 6 4645.0-4705.0 CUT 60' REC 60'								
S 230	4645.0-46.0	3.8	3.5	7.3	5.5	61.0	2.83	DOL,SL/ANHY,STY,SL/F,SL/V
231	4646.0-47.0	2.8	2.8	9.1	12.2	2.7	2.83	DOL,SL/ANHY,SL/V,STY,SL/F
232	4647.0-48.0	14.	3.7	9.9	15.4	52.6	2.83	DOL,SL/ANHY,STY,SL/F,SL/V
233	4648.0-49.0	31.	14.	9.1	13.7	58.4	2.82	DOL,SL/ANHY,F,DOL,SHR
234	4649.0-50.0	<0.1	<0.1	6.6	4.2	87.8	2.85	DOL,SL/ANHY,STY
235	4650.0-51.0	1.4	1.3	4.0	10.3	68.7	2.86	DOL,SL/ANHY,SL/F,STY,PP
S 236	4651.0-52.0	19.	19.	8.1	16.7	67.1	2.88	DOL,ANHY,SL/F,STY,PP
237	4652.0-53.0	38.	19.	11.6	20.1	42.1	2.88	DOL,SL/ANHY,STY,PP
238	4653.0-54.0	14.	14.	9.6	5.4	52.2	2.86	DOL,STY,SHR,PP
S 239	4654.0-55.0	71.	51.	7.6	9.4	67.7	2.85	DOL,SL/ANHY,F,STY,PP
240	4655.0-56.0	12.	11.	10.1	15.4	45.5	2.84	DOL,SL/ANHY,SHR,SL/F,SL/V,OIL

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11150
ANALYSTS : GUDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
241	4656.0-57.0	7.9	7.6	5.8	4.4	80.9	2.83	DOL,SL/ANHY,SL/F,SL/V, DOL,SHR,STY
242	4657.0-58.0	7.5	0.6	2.3	15.3	59.3	2.84	DOL,SL/ANHY,STY,F
243	4658.0-59.0	0.5	0.2	3.9	8.5	86.8	2.86	DOL,SL/ANHY,SL/F,SL/V,STY
244	4659.0-60.0	1.4	1.3	15.0	9.7	52.7	2.86	DOL,SL/ANHY,STY,SL/V,SL/F
245	4660.0-61.0	32.	*	15.6	10.3	49.1	2.83	DOL,SL/ANHY,STY
246	4661.0-62.0	38.	8.8	15.9	9.4	38.2	2.85	DOL,SL/ANHY,V/F,STY,PP
247	4662.0-63.0	9.8	8.3	14.4	12.3	33.5	2.87	DOL,SL/ANHY
248	4663.0-64.0	6.9	*	12.3	13.6	29.5	2.83	DOL,SL/ANHY,PP
249	4664.0-65.0	8.8	7.8	13.9	7.6	33.1	2.87	DOL,SL/ANHY,SL/F
250	4665.0-66.0	5.5	4.8	10.0	5.6	37.2	2.84	DOL,SL/ANHY,STY,SL/V,PP
251	4666.0-67.0	43.	36.	10.0	6.6	28.9	2.82	DOL,SL/ANHY,DOL,STY,SHR,SL/V
252	4667.0-68.0	52.	49.	4.4	6.6	62.3	2.82	DOL,STY,F,SH LAM,PP
253	4668.0-69.0	1.3	0.1	5.5	12.7	42.5	2.85	DOL,SL/ANHY,SL/V,STY,F
254	4669.0-70.0	4.2	3.9	4.6	8.8	44.0	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
255	4670.0-71.0	15.	7.6	10.8	12.9	32.2	2.82	DOL,STY,SL/V,PP,V/F
256	4671.0-72.0	6.5	3.8	9.9	9.9	34.3	2.82	DOL,SL/ANHY,STY,F,PP
257	4672.0-73.0	2.4	1.9	10.1	10.8	33.7	2.83	DOL,SL/ANHY,SL/V,SL/F
258	4673.0-74.0	1.6	1.4	10.0	7.7	36.2	2.83	DOL,SL/ANHY,STY,SL/V,SL/F
259	4674.0-75.0	2.0	1.8	8.9	14.3	32.5	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
260	4675.0-76.0	1.9	1.8	9.3	15.9	36.1	2.85	DOL,SL/ANHY,STY,SL/F,V
261	4676.0-77.0	4.6	4.5	15.5	20.5	19.6	2.85	DOL,SL/ANHY,PP
262	4677.0-78.0	37.	4.4	15.7	11.0	26.2	2.85	DOL,STY,PP
263	4678.0-79.0	11.	10.	16.4	18.9	30.9	2.87	DOL,PP
264	4679.0-80.0	13.	12.	15.2	21.4	25.5	2.85	DOL,SL/ANHY,SL/V
265	4680.0-81.0	16.	15.	17.3	17.6	30.1	2.86	DOL,SL/ANHY,STY,PP
266	4681.0-82.0	18.	16.	16.7	22.0	28.9	2.85	DOL,ANHY,PP,SL/F
267	4682.0-83.0	8.0	6.3	11.6	17.0	31.8	2.82	DOL,SL/ANHY,SL/F,STY,PP
268	4683.0-84.0	8.4	7.0	12.1	12.3	40.4	2.86	DOL,ANHY,PP,SL/F
269	4684.0-85.0	1.7	1.4	15.6	19.7	30.0	2.86	DOL,ANHY,PP

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 11

PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
ANALYSTS : GUDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
270	4685.0-86.0	1.6	1.3	15.0	11.3	37.6	2.84	DOL,SL/ANHY,PP
71	4686.0-87.0	3.9	3.9	16.0	9.4	39.4	2.82	DOL,SL/ANHY,P,STY
272	4687.0-88.0	30.	27.	16.3	9.8	38.7	2.84	DOL,SL/ANHY,STY,SL/F,PP
273	4688.0-89.0	8.8	8.2	10.0	10.8	43.4	2.82	DOL,SL/ANHY,STY,DOL,SHR,SL/F
274	4689.0-90.0	1.9	1.7	7.4	5.0	51.2	2.82	DOL,SL/ANHY,STY,F,V
275	4690.0-91.0	2.1	1.6	6.9	5.8	53.5	2.85	DOL,SL/ANHY,STY,SL/F,V
276	4691.0-92.0	1.0	0.9	4.9	6.8	71.8	2.82	DOL,SL/ANHY,STY,SL/V,SL/F
277	4692.0-93.0	1.9	<0.1	6.2	2.6	58.7	2.87	DOL,SL/ANHY,V/F,STY,SL/V
278	4693.0-94.0	0.2	0.2	4.5	6.7	57.2	2.87	DOL,SL/ANHY,STY,SL/V
279	4694.0-95.0	3.3	2.8	2.6	2.6	84.3	2.84	DOL,SL/ANHY,SL/F
280	4695.0-96.0	1.0	0.9	2.0	7.3	92.7	2.83	DOL,SL/ANHY,STY,SL/V
281	4696.0-97.0	1.0	0.8	8.0	9.9	42.0	2.85	DOL,SL/ANHY,SL/F,PP
282	4697.0-98.0	4.3	3.6	8.8	9.6	30.8	2.84	DOL,SL/ANHY,V,STY
283	4698.0-99.0	2.4	2.3	10.7	7.6	44.0	2.82	DOL,SL/ANHY,V,SL/F,STY
284	4699.0-00.0	42.	36.	14.7	7.6	40.3	2.83	DOL,SL/V
285	4700.0-01.0	32.	27.	19.0	12.5	37.8	2.82	DOL,SL/V,STY
286	4701.0-02.0	36.	35.	22.2	15.6	42.7	2.84	DOL,PP
87	4702.0-03.0	44.	39.	21.2	16.9	44.8	2.83	DOL,PP
288	4703.0-04.0	23.	19.	19.6	17.5	41.7	2.83	DOL,PP
289	4704.0-05.0	43.	39.	20.4	17.0	36.4	2.85	DOL,PP
CORE NO. 7 4705.0-4765.0 CUT 60' REC 60'								
290	4705.0-11.0	2.3	1.9	10.7	8.3	23.1	2.83	DOL,SL/ANHY,FOSS,SL/V,STY
291	4705.0-06.0	19.	17.	18.2	12.5	43.9	2.85	DOL,SL/V,STY
292	4706.0-07.0	3.2	3.2	14.2	16.1	29.9	2.83	DOL,SL/V
293	4707.0-08.0	4.5	3.8	12.3	15.9	29.1	2.84	DOL,SL/ANHY,SL/V,SL/F
294	4708.0-09.0	1.9	1.6	12.2	17.4	25.9	2.84	DOL,SL/ANHY,V,SL/F,FOSS
295	4709.0-10.0	23.	21.	9.7	14.4	29.4	2.86	DOL,SL/ANHY,V,SL/F,FOSS
296	4711.0-12.0	2.6	2.5	10.8	8.2	23.3	2.83	DOL,SL/ANHY,STY,FOSS,V

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 12

PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11102
 ANALYSTS : GODSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
297	4712.0-13.0	1.3	1.2	9.5	5.5	27.4	2.83	DOL,SL/ANHY,STY,SL/F,FOSS
298	4713.0-14.0	10.	7.2	9.6	8.3	24.8	2.83	DOL,SL/ANHY,SL/F,V,STY,FOSS
299	4714.0-15.0	8.3	7.9	7.2	5.3	35.8	2.84	DOL,SL/ANHY,FOSS,STY,SL/V,SL/F
300	4715.0-16.0	7.4	5.7	2.9	15.3	50.8	2.82	DOL,SL/ANHY,STY,FOSS,SL/F,V
301	4716.0-17.0	1.3	1.2	2.7	9.5	61.9	2.85	DOL,SL/ANHY,SL/F,STY,V
302	4717.0-18.0	2.3	2.2	2.3	5.0	55.9	2.83	DOL,ANHY,SL/F,SL/V,FOSS,STY
303	4718.0-19.0	1.8	1.6	6.4	5.8	39.6	2.83	DOL,SL/ANHY,FOSS,STY,F,V
304	4719.0-20.0	0.7	0.6	7.9	4.9	32.8	2.83	DOL,FOSS,STY,SL/F,V
305	4720.0-21.0	7.9	7.4	8.9	8.8	33.3	2.83	DOL,SL/ANHY,STY,FOSS,SL/V
306	4721.0-22.0	7.1	6.9	7.9	11.3	34.1	2.84	DOL,SL/ANHY,STY,SL/F,SL/V,FOSS
307	4722.0-23.0	2.5	2.3	7.8	8.9	35.3	2.84	DOL,SL/ANHY,V,SL/F,FOSS
308	4723.0-24.0	2.0	1.7	8.7	7.6	33.9	2.84	DOL,SL/ANHY,FOSS,STY,V,SL/F
309	4724.0-25.0	1.4	1.3	9.0	5.6	36.7	2.83	DOL,SL/ANHY,V,FOSS
310	4725.0-26.0	96.	94.	9.8	4.5	36.0	2.85	DOL,SL/ANHY,STY,SL/F,V,FOSS
311	4726.0-27.0	51.	50.	9.1	5.8	36.8	2.84	DOL,SL/ANHY,FOSS,SL/F,STY,V
312	4727.0-28.0	213.	61.	8.9	11.5	38.3	2.85	DOL,SL/ANHY,V,F,STY,FOSS
313	4728.0-29.0	1.9	1.6	9.6	9.7	39.6	2.82	DOL,SL/ANHY,F,V,STY
314	4729.0-30.0	10.	9.2	12.6	9.4	31.8	2.83	DOL,SL/ANHY,V,STY,FOSS
315	4730.0-31.0	1.4	1.4	10.4	16.1	26.8	2.83	DOL,SL/V,STY
316	4731.0-32.0	3.8	3.6	12.7	22.0	29.3	2.88	DOL,SL/F,SL/V,STY
317	4732.0-33.0	16.	14.	14.1	21.2	27.0	2.85	DOL,STY,F
318	4733.0-34.0	7.2	6.4	12.3	20.0	25.0	2.85	DOL,SL/ANHY,SL/SDY,F,STY,PP
319	4734.0-35.0	1.0	0.8	10.1	15.1	30.1	2.84	DOL,SL/SDY,STY,SL/F,PP
320	4735.0-36.0	6.9	6.5	9.2	28.8	23.2	2.84	DOL,SL/ANHY,SL/F,STY,PP
321	4736.0-37.0	26.	25.	11.4	15.2	34.3	2.86	DOL,SL/ANHY,SL/V,SL/F,STY
322	4737.0-38.0	21.	18.	6.4	8.1	42.2	2.84	DOL,SL/ANHY,SL/F,V,STY,FOSS
323	4738.0-39.0	4.9	4.6	6.0	12.4	41.2	2.86	DOL,ANHY,SL/F,SL/V,FOSS,STY
324	4739.0-40.0	410.	3.8	4.8	10.1	65.5	2.83	DOL,ANHY,SL/V,STY,V/F
325	4740.0-41.0	9.7	9.5	5.4	10.8	56.6	2.83	DOL,ANHY,SL/V,F,STY
326	4741.0-42.0	12.	11.	7.7	10.6	53.0	2.83	DOL,ANHY,V,STY,SL/F

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 13

PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
ANALYSTS : GOOSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
S 327	4742.0-43.0	12.	12.	9.2	8.6	35.2	2.81	DOL,SL/ANHY,F,SL/V,STY,FP
328	4743.0-44.0	136.	107.	14.2	14.8	29.6	2.82	DOL,STY,F,V,FP
329	4744.0-45.0	17.	17.	13.5	18.2	25.0	2.83	DOL,SL/ANHY,SL/V,SL/F,STY
330	4745.0-46.0	13.	13.	10.0	15.5	26.7	2.84	DOL,SL/ANHY,V,SL/F,STY
331	4746.0-47.0	1.7	1.6	7.9	12.7	35.3	2.82	DOL,ANHY,SL/V,F,STY,FOSS
332	4747.0-48.0	5.4	4.0	6.6	7.9	39.5	2.83	DOL,SL/ANHY,SL/F,STY,FOSS
S 333	4748.0-49.0	1.4	1.4	6.6	10.1	41.6	2.83	DOL,ANHY,V,F,STY
334	4749.0-50.0	7.0	6.6	9.5	9.6	32.2	2.85	DOL,ANHY,V,F,FOSS,STY
S 335	4750.0-51.0	8.6	8.0	10.4	7.1	33.9	2.83	DOL,ANHY,V,F,STY,FOSS
336	4751.0-52.0	13.	12.	8.0	12.1	39.4	2.83	DOL,SL/ANHY,STY,SL/V
337	4752.0-53.0	76.	42.	9.2	14.5	35.2	2.85	DOL,SL/ANHY,STY,SL/V
338	4753.0-54.0	6.3	1.2	3.8	17.6	54.9	2.87	DOL,V/ANHY,SL/F,SL/V
S 339	4754.0-55.0	1.5	1.5	4.7	10.7	46.1	2.87	DOL,V/ANHY,SL/V,F
340	4755.0-56.0	20.	18.	5.7	14.1	42.2	2.84	DOL,ANHY,SL/F,SL/V,STY,FOSS
S 341	4756.0-57.0	16.	16.	6.0	4.5	49.6	2.83	DOL,SL/ANHY,STY,SL/V,F
342	4757.0-58.0	243.	232.	9.4	9.3	35.1	2.83	DOL,ANHY,F,SL/V,STY
343	4758.0-59.0	95.	92.	6.9	10.9	37.8	2.84	DOL,SL/ANHY,SL/F,STY,FP
S 344	4759.0-60.0	16.	15.	12.7	18.0	26.5	2.82	DOL,SL/F,SL/V,STY
345	4760.0-61.0	46.	44.	13.5	20.7	21.1	2.84	DOL,SL/F,V,STY
346	4761.0-62.0	83.	82.	10.5	8.1	35.1	2.82	DOL,STY,F,V
347	4762.0-63.0	54.	52.	13.6	17.0	23.6	2.84	DOL,V,SL/F,STY,FOSS
348	4763.0-64.0	37.	36.	12.3	18.1	24.6	2.85	DOL,F,STY,SL/V
S 349	4764.0-65.0	35.	35.	12.2	16.8	24.8	2.85	DOL,SL/ANHY,V,SL/F,STY,FOSS
CORE NO. 8 4765.0-4825.0 CUT 60' REC 60'								
S 350	4765.0-66.0	20.	20.	9.8	10.1	31.8	2.83	DOL,SL/ANHY,SHY,STY,F,V
351	4766.0-67.0	13.	13.	9.8	21.0	24.7	2.84	DOL,SL/ANHY,SL/SHY,F,V,FOSS,STY
S 352	4767.0-68.0	12.	11.	9.6	16.8	27.3	2.83	DOL,SL/ANHY,SL/SHY,F,FOSS,STY,F,V
S 353	4768.0-69.0	15.	15.	10.5	9.7	24.7	2.86	DOL,ANHY,STY,F,V,FOSS

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 14

PHILLIPS PETROLEUM COMPANY
 EVGSA UNIT NO. 2739-005

DATE : 6-2-79
 FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
 ANALYSTS : GUDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
354	4769.0-70.0	7.1	6.7	8.4	10.1	25.0	2.84	DOL, ANHY, STY, F, V, FOSS
355	4770.0-71.0	3.4	2.9	11.9	2.7	23.8	2.83	DOL, ANHY, SL/SHY, FOSS, STY, F, V
356	4771.0-72.0	6.6	6.2	9.5	6.0	36.2	2.82	DOL, ANHY, SL/SHY, STY, FOSS, SL/F, V
357	4772.0-73.0	1.7	1.4	7.7	4.7	31.3	2.87	DOL, ANHY, FOSS, STY, F, V
358	4773.0-74.0	4.4	2.4	6.4	5.7	32.2	2.83	DOL, ANHY, STY, FOSS, F, V
359	4774.0-75.0	22.	14.	6.7	8.3	38.2	2.84	DOL, ANHY, STY, F, V
360	4775.0-76.0	3.6	3.2	6.4	8.7	38.8	2.83	DOL, ANHY, STY, F, V, FOSS
361	4776.0-77.0	23.	11.	8.0	5.9	37.9	2.83	DOL, SL/ANHY, STY, F, SL/V
	4777.0-78.0							ANHY
362	4778.0-79.0	0.1	<0.1	3.8	9.7	36.1	2.90	DOL, SL/ANHY, STY, SL/F, SL/V
	4779.0-79.6							ANHY
363	4779.6-80.0	8.3	0.3	2.6	14.6	52.8	2.89	DOL, V/ANHY, STY, F, SL/V
364	4780.0-81.0	1.9	1.2	3.4	14.9	53.9	2.85	DOL, ANHY, STY, F, SL/V
365	4781.0-82.0	5.7	4.4	5.0	18.1	37.8	2.83	DOL, SL/ANHY, STY, F, SL/V
366	4782.0-83.0	4.4	4.0	5.4	17.9	39.8	2.83	DOL, SL/ANHY, STY, F, SL/V
367	4783.0-84.0	5.5	5.2	6.0	12.2	45.0	2.83	DOL, SL/ANHY, STY, F, SL/V
368	4784.0-85.0	1.4	1.2	7.8	13.5	38.3	2.82	DOL, SL/ANHY, STY, F, SL/V
369	4785.0-86.0	21.	11.	8.2	13.5	37.6	2.82	DOL, SL/ANHY, STY, SL/F, SL/V
370	4786.0-87.0	0.2	0.1	4.2	3.3	60.2	2.84	DOL, SL/ANHY, STY, SL/F, V
371	4787.0-88.0	0.3	0.2	4.6	9.3	27.2	2.86	DOL, ANHY, FOSS, STY, F, V
372	4788.0-89.0	0.7	0.7	2.1	16.2	74.9	2.83	DOL, SL/ANHY, STY, F
373	4789.0-90.0	3.0	2.9	7.0	9.4	46.3	2.83	DOL, SL/ANHY, STY, F, V
374	4790.0-91.0	8.1	7.8	6.2	7.7	45.3	2.82	DOL, SL/ANHY, STY, F, V
375	4791.0-92.0	16.	16.	8.1	18.8	31.3	2.83	DOL, SL/ANHY, FOSS, STY, F, V
376	4792.0-93.0	40.	37.	7.7	16.2	34.4	2.87	DOL, ANHY, STY, F, V
377	4793.0-94.0	5.6	3.0	5.4	22.0	29.3	2.87	DOL, ANHY, STY, F, V
378	4794.0-95.0	52.	4.1	8.3	6.9	32.6	2.82	DOL, SL/ANHY, FOSS, STY, F, V
379	4795.0-96.0	14.	3.4	7.1	18.2	24.7	2.88	DOL, V/ANHY, FOSS, STY, F, V
380	4796.0-97.0	2.1	1.8	4.7	14.4	36.1	2.88	DOL, V/ANHY, FOSS, STY, F, V
381	4797.0-98.0	6.7	5.5	6.5	11.5	41.1	2.83	DOL, SL/ANHY, STY, F, V

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 15

PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
ANALYSTS : GODSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
382	4798.0-499.0	1651.	5.8	5.3	15.5	39.7	2.84	DOL,SL/ANHY,STY,F,V
383	4799.0-00.0	1.4	1.3	4.6	16.9	45.5	2.83	DOL,SL/ANHY,SL/SHY,STY,F,V
384	4800.0-01.0	3.8	2.7	5.9	10.5	53.5	2.83	DOL,ANHY,FOSS,STY,F,V
385	4801.0-02.0	4.8	4.7	6.2	18.4	29.5	2.86	DOL,ANHY,FOSS,STY,F,V
386	4802.0-03.0	36.	9.8	5.1	10.7	37.7	2.87	DOL,ANHY,FOSS,STY,V,F
387	4803.0-04.0	7.8	7.2	6.5	10.2	31.8	2.86	DOL,ANHY,FOSS,STY,SL/F,SL/V
388	4804.0-05.0	5.9	5.8	5.6	18.9	28.5	2.84	DOL,SL/ANHY,SHY,STY,SHR,FOSS,F,V
389	4805.0-06.0	111.	12.	8.8	18.2	21.3	2.84	DOL,SL/ANHY,SHY,SHR,V,F,STY
390	4806.0-07.0	52.	11.	7.4	16.0	21.6	2.83	DOL,SL/ANHY,SHY,SHR,STY,F,V,FOSS
391	4807.0-08.0	134.	25.	6.8	14.5	30.2	2.80	DOL,SL/ANHY,SHR,SHR,FOSS,F,V,STY
392	4808.0-09.0	62.	42.	6.9	9.3	28.5	2.80	DOL,SL/ANHY,F,V,STY,FOSS,SHR
393	4809.0-10.0	24.	16.	6.5	28.2	27.4	2.79	DOL,SL/ANHY,SHR,FOSS,STY,F,V
394	4810.0-11.0	9.3	6.7	2.6	4.9	62.5	2.83	DOL,ANHY,F,SL/V,STY,SHR
395	4811.0-12.0	1.3	1.2	3.0	7.1	69.2	2.83	DOL,SL/ANHY,V/F,STY,V
396	4812.0-13.0	25.	7.7	2.2	7.0	65.9	2.83	DOL,SL/ANHY,V/F,SL/V,STY
397	4813.0-14.0	10.	6.7	3.0	7.6	44.1	2.82	DOL,SL/ANHY,STY,V/F,SL/V
398	4814.0-15.0	2.8	2.6	2.2	15.3	48.0	2.83	DOL,SL/ANHY,STY,F,SL/V
399	4815.0-16.0							DOL,ANHY,INS
400	4816.0-17.0	1.7	0.9	0.6	18.4	71.4	2.83	DOL,SL/ANHY,STY,F
	4817.0-18.0	<0.1	<0.1	1.1	7.1	85.7	2.82	DOL,SL/ANHY,STY,F
	4818.0-21.5							DOL,INS
401	4821.5-22.0	3.8	3.7	2.3	27.8	61.9	2.83	DOL,SL/ANHY,STY,SL/F,SL/V
402	4822.0-23.0	3.9	3.8	2.1	26.5	58.8	2.82	DOL,SL/ANHY,STY,SL/F,SL/V
403	4823.0-24.0	0.4	<0.1	0.6	23.1	64.1	2.82	DOL,SL/ANHY,STY,V/F,SL/V
	4824.0-25.0							DOL,ANHY,INS
404	4825.0-26.0	0.2	0.2	1.9	13.0	58.0	2.87	DOL,SL/ANHY,SL/SHY,STY,SL/F
405	4826.0-27.0	4.7	2.2	4.2	14.5	22.6	2.86	DOL,ANHY,STY,V,F
406	4827.0-28.0	13.	8.1	5.0	12.2	27.0	2.87	DOL,ANHY,STY,V,F
407	4828.0-29.0	0.1	<0.1	5.4	11.8	41.2	2.84	DOL,SL/ANHY,F,SL/V
408	4829.0-30.0	5.1	3.9	4.4	13.8	44.8	2.83	DOL,SL/ANHY,V/F,STY,SL/V

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

DATE : 6-2-79
FORMATION : GRAYBURG/SAN ANDRES

FILE NO : 3202-11152
ANALYSTS : GUDSEY

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
S 409	4830.0-31.0	1.5	1.0	9.0	22.2	24.2	2.82	DOL,SL/ANHY,STY,V/F,SL/V
410	4831.0-32.0	20.	19.	10.0	17.3	19.3	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
411	4832.0-33.0	3.7	3.2	10.3	19.8	18.5	2.83	DOL,SL/ANHY,STY,SL/F,SL/V
S 412	4833.0-34.0	32.	11.	13.4	19.9	20.7	2.86	DOL,SL/ANHY,STY,SL/F,SL/V
S 413	4834.0-35.0	96.	86.	13.9	12.4	26.5	2.83	DOL,SL/ANHY,STY,SL/F,SL/V
S 414	4835.0-36.0	11.	11.	9.7	18.9	22.1	2.83	DOL,SL/ANHY,V,SL/F,STY,SHR
S 415	4836.0-37.0	31.	21.	10.4	24.7	21.6	2.83	DOL,SL/ANHY,STY,SL/F,SL/V,SHR
S 416	4837.0-38.0	20.	11.	8.6	27.1	21.1	2.82	DOL,SL/ANHY,V/F,STY,SL/V,SHR
S 417	4838.0-39.0	44.	12.	9.3	17.6	26.1	2.81	DOL,SL/ANHY,V/F,STY,SL/V,SHR
S 418	4839.0-40.0	4.3	4.1	6.8	27.2	35.5	2.77	DOL,SL/ANHY,STY,FOSS,DOL,SHR
S 419	4840.0-41.0	5.1	4.7	9.0	42.7	23.7	2.79	DOL,SL/ANHY,STY,SL/F,FOSS,DOL,SHR
S 420	4841.0-42.0	9.6	1.3	6.6	17.5	36.4	2.80	DOL,SL/ANHY,STY,SL/F,DOL,SHR
S 421	4842.0-43.0	11.	11.	9.6	30.7	17.1	2.83	DOL,SL/ANHY,STY,SL/F
S 422	4843.0-44.0	<0.1	<0.1	6.5	28.9	27.6	2.82	DOL,SL/ANHY,STY,SL/V,V/F,SHR
S 423	4844.0-45.0	32.	8.1	6.0	26.5	32.1	2.82	DOL,SL/ANHY,STY,SL/F,SL/V
S 424	4845.0-46.0	4.2	4.1	3.7	51.2	40.7	2.79	DOL,SL/ANHY,STY,SL/F,SHR
S 425	4846.0-47.0	2.5	2.4	5.6	16.0	52.2	2.84	DOL,SL/ANHY,STY,F
S 426	4847.0-48.0	6.8	6.4	1.9	24.7	54.8	2.83	DOL,SL/ANHY,STY,F
S 427	4848.0-49.0	0.4	<0.1	6.4	3.3	78.5	2.85	DOL,SL/ANHY,SL/V,F,STY
S 428	4849.0-50.0	0.1	<0.1	6.0	2.7	61.3	2.84	DOL,SL/F,STY
S 429	4850.0-51.0	3.1	3.0	7.4	4.7	80.9	2.84	DOL,STY,F
S 430	4851.0-52.0	1.4	0.7	4.3	6.3	90.0	2.84	DOL,STY,SL/F
S 431	4852.0-53.0	46.	17.	7.1	25.6	37.2	2.83	DOL,SL/ANHY,STY,F,SL/V
S 432	4853.0-54.0	6.0	6.0	12.0	20.1	23.8	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
S 433	4854.0-55.0	6.8	6.5	12.0	10.0	26.0	2.83	DOL,SL/ANHY,SL/F,SL/V
S 434	4855.0-56.0	432.	21.	10.7	19.1	24.5	2.84	DOL,SL/ANHY,STY,V/F,SL/V
S 435	4856.0-57.0	12.	10.	10.9	20.0	19.8	2.84	DOL,SL/ANHY,STY,SL/F,V
S 436	4857.0-58.0	12.	12.	13.1	22.3	24.7	2.85	DOL,SL/ANHY,STY,SL/F,SL/V
S 437	4858.0-59.0	9.3	9.2	10.2	21.6	27.7	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
S 438	4859.0-60.0	8.5	8.1	8.5	18.5	25.7	2.82	DOL,SL/ANHY,STY,SL/F,SL/V

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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PHILLIPS PETROLEUM COMPANY
EVGSA UNIT NO. 2739-005

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FORMATION : GRAYBURG/SAN ANDRES

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FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
439	4860.0-61.0	6.3	4.6	7.5	15.6	28.4	2.83	DOL,SL/ANHY,STY,SL/F,V
440	4861.0-62.0	7.4	7.3	7.8	17.3	24.6	2.82	DOL,SL/ANHY,STY,SL/F,SL/V
441	4862.0-63.0	6.3	5.9	6.6	13.7	28.8	2.82	DOL,SL/ANHY,STY,SL/F,SL/V
442	4863.0-64.0	6.2	5.8	6.2	5.7	29.7	2.83	DOL,SL/ANHY,STY,F,V
443	4864.0-65.0	6.5	6.4	7.2	13.6	28.1	2.84	DOL,SL/ANHY,STY,SL/F,V
444	4865.0-66.0	5.8	5.6	6.9	18.2	29.6	2.84	DOL,SL/ANHY,STY,F,V
445	4866.0-67.0	14.	13.	8.8	19.6	25.9	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
446	4867.0-68.0	19.	19.	10.5	20.9	22.7	2.82	DOL,SL/V,SL/F
447	4868.0-69.0	13.	12.	9.2	22.7	28.8	2.85	DOL,SL/ANHY,STY,SL/F,SL/V
448	4869.0-70.0	44.	11.	10.4	24.4	24.8	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
449	4870.0-71.0	24.	24.	12.8	13.2	22.0	2.86	DOL,SL/ANHY,STY,SL/V
450	4871.0-72.0	22.	20.	9.1	12.8	29.3	2.81	DOL,SL/F,SL/V,STY
451	4872.0-73.0	1.4	1.3	10.8	16.7	34.4	2.85	DOL,SL/ANHY,STY,F,V
452	4873.0-74.0	13.	11.	9.1	10.7	34.2	2.84	DOL,SL/ANHY,STY,V,SL/F
453	4874.0-75.0	14.	14.	11.2	19.2	27.3	2.83	DOL,STY,V
454	4875.0-76.0	9.6	9.4	13.2	14.7	30.9	2.84	DOL,SL/ANHY,SL/V,STY,V/F
455	4876.0-77.0	4.3	3.9	17.0	27.9	23.6	2.85	DOL,SL/ANHY,STY,V/F,SL/V
456	4877.0-78.0	1.2	1.2	13.7	24.1	26.3	2.85	DOL,SL/ANHY,V/F,PP
457	4878.0-79.0	3.9	3.3	15.9	25.8	25.2	2.86	DOL,SL/ANHY,V/F,SL/V
458	4879.0-80.0	2.1	1.2	13.7	11.2	36.2	2.83	DOL,SL/ANHY,V/F,V
459	4880.0-81.0	13.	11.	13.5	16.8	31.8	2.82	DOL,SL/SHY,STY,V,SL/F
460	4881.0-82.0	1.0	0.1	8.6	9.0	45.0	2.83	DOL,STY,V,V/F
461	4882.0-83.0	0.8	0.7	11.2	10.2	41.3	2.82	DOL,STY,SL/F,SL/V
462	4883.0-84.0	4.8	4.8	14.2	10.7	38.2	2.83	DOL,STY,V
463	4884.0-85.0	11.	3.8	13.1	5.1	33.1	2.82	DOL,SL/F,V/F
* INDICATES PLUG PERM								
S INDICATES PRESERVED SAMPLE								

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