

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 2 OF

YATES PETROLEUM CORPORATION
 MURPHY NW FEDERAL NO. 1

DATE : 11-28-80
 FORMATION : PERMO PENN

FILE NO : 3202-12042
 ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE FOR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
25	6575.0-76.0	0.03	<0.01	1.9	0.0	95.0	2.73	LM SL/SHY FOSS STY
26	6576.0-77.0	<0.01	<0.01	1.0	0.0	90.9	2.74	LM FOSS STY
27	6577.0-78.0	0.03	0.03	3.1	0.0	94.7	2.73	LM SL/SDY SHLAM FOSS
28	6578.0-79.0	0.03	<0.01	2.3	0.0	96.2	2.73	LM SL/SDY FOSS
29	6579.0-80.0	0.02	0.02	3.3	0.0	98.0	2.74	LM SL/SDY FOSS
30	6580.0-81.0	<0.01	<0.01	2.2	0.0	95.2	2.73	LM SL/SDY FOSS
31	6581.0-82.0	0.02	<0.01	0.5	0.0	71.4	2.72	LM SL/F
32	6582.0-83.0	0.02	<0.01	0.6	0.0	75.0	2.70	LM FOSS
33	6583.0-84.0	0.02	0.02	2.4	0.0	43.0	2.70	LM FOSS
34	6584.0-85.0	0.07	0.04	2.2	0.0	55.0	2.71	LM FOSS STY
35	6585.0-86.0	0.40	<0.01	3.1	0.0	32.0	2.72	LM VF FOSS STY
36	6586.0-87.0	<0.01		4.1	0.0	41.0	2.70	LM VF FOSS
37	6587.0-88.0	<0.01		4.2	0.0	36.2	2.69	LM VF FOSS
38	6588.0-89.0	2.1	<0.01	3.6	0.0	30.0	2.72	LM VF FOSS
39	6589.0-90.0	0.05	0.03	2.7	0.0	33.3	2.72	LM FOSS STY
40	6590.0-91.0	0.02	0.02	0.8	0.0	90.0	2.70	LM FOSS
41	6591.0-92.0	0.05	0.05	0.7	0.0	80.0	2.72	LM SL/F FOSS STY
42	6592.0-93.0	0.06	0.03	0.5	0.0	66.7	2.71	LM FOSS STY
43	6593.0-94.0	0.03	<0.01	0.5	0.0	60.0	2.72	LM FOSS STY
44	6594.0-95.0	0.07	0.04	0.7	0.0	66.7	2.72	LM FOSS STY
45	6595.0-96.0	0.04	<0.01	0.5	0.0	75.0	2.72	LM FOSS STY
	6596.0-98.0							LOST CORE
CORE NO. 2 6598.0-6661.0 CUT 63' REC 27'								
46	6598.0-99.0	0.08	0.03	0.8	0.0	87.5	2.71	LM STY
47	6599.0-0.0	0.05	0.03	2.0	0.0	52.0	2.71	LM FOSS
48	6600.0-1.0	0.05	0.03	3.2	0.0	24.3	2.72	LM FOSS
49	6601.0-2.0	0.08	0.03	3.8	0.0	25.0	2.70	LM FOSS STY