

PHILLIPS PETROLEUM CO.,
E. VACUUM GRAYBURG S.A. UNIT #3229-005

DATE : 5-6-79
FORMATION : GRAYBURG

FILE NO : 3202-11118
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
228	4395.0-96.0	21.	21.	23.4	26.3	50.1	2.85	DOL, ANHY, DOL
229	4396.0-97.0	16.	15.	22.8	30.6	47.8	2.83	DOL, ANHY, DOL
230	4397.0-98.0	27.	25.	19.3	19.0	51.8	2.82	DOL, ANHY, DOL
231	4398.0-99.0	2.0	1.5	6.8	27.5	34.4	2.85	DOL, ANHY, DOL
232	4399.0-00.0	33.	32.	20.3	28.1	38.4	2.85	DOL, ANHY, DOL
233	4400.0-01.0	48.	43.	13.2	13.7	31.5	2.84	DOL, ANHY, DOL
234	4401.0-02.0	4.4	1.5	9.5	45.7	17.5	2.86	DOL, ANHY, DOL
235	4402.0-03.0	46.	28.	14.3	41.2	26.1	2.86	DOL, ANHY, DOL
236	4403.0-04.0	19.	17.	8.4	26.3	34.0	2.84	DOL, ANHY, DOL, SL/F
237	4404.0-05.0	25.	22.	11.6	45.7	19.3	2.88	DOL, ANHY, DOL
238	4405.0-06.0	33.	29.	11.0	37.0	26.0	2.86	DOL, ANHY, DOL
239	4406.0-07.0	3.3	1.2	5.4	28.6	31.7	2.86	DOL, ANHY, DOL
240	4407.0-08.0	0.2	<0.1	2.8	35.6	39.6	2.87	DOL, ANHY, DOL
241	4408.0-09.0	4.9	1.0	7.9	31.3	29.6	2.87	DOL, ANHY, DOL
242	4409.0-10.0	101.	*	12.0	25.9	29.6	2.81	DOL, ANHY, SL/V, SL/F, DOL
243	4410.0-11.0	41.	30.	11.5	19.5	47.6	2.87	DOL, ANHY, DOL
244	4411.0-12.0	95.	70.	13.7	26.6	36.3	2.84	DOL, ANHY, DOL, FOSS
245	4412.0-13.0	49.	45.	15.4	29.8	37.0	2.82	DOL, COL, STY
246	4413.0-14.0	28.	9.8	21.4	15.1	37.8	2.81	DOL, SL/F, DOL
247	4414.0-15.0	24.	20.	7.6	31.0	27.1	2.83	DOL, ANHY, DOL
248	4415.0-16.0	99.	94.	20.5	22.7	39.5	2.84	DOL, ANHY, F, DOL
249	4416.0-17.0	64.	62.	21.4	24.3	20.5	2.82	DOL, ANHY, DOL
250	4417.0-18.0	14.	0.2	12.8	28.6	25.3	2.86	DOL, ANHY, DOL
251	4418.0-19.0	26.	24.	22.5	24.6	22.0	2.37	DOL, ANHY, DOL
252	4419.0-20.0	20.	*	25.2	24.9	37.3	2.85	DOL, ANHY, DOL, F
253	4420.0-21.0	17.	5.4	13.9	29.0	30.9	2.84	DOL, ANHY, DOL, STY
254	4421.0-22.0	5.1	3.9	12.5	34.2	25.5	2.84	DOL, ANHY, DOL
255	4422.0-23.0	54.	7.2	13.7	31.0	28.0	2.81	DOL, ANHY, F, DOL
256	4423.0-24.0	66.	63.	25.0	23.8	35.4	2.85	DOL, ANHY, DOL, STY
257	4424.0-25.0	2.2	1.1	4.8	22.4	32.6	2.85	DOL, ANHY, SL/V, DOL

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or land in connection with which such report is used or relied upon.