

CONTRACT NO. 3229-005  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

HILLIPS PETROLEUM CO.  
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 MAXIMUM	AIR (MD) 90 DEG	FOR. HE	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
471	4665.0-66.0	0.4	*	8.4	13.4	37.1	2.86	DOL,SL/ANHY,V/F,V
472	4664.0-65.0	3.4	*	6.9	6.2	39.9	2.86	DOL,SL/ANHY,V/F,STY,V
CORE NO. 12 4665.0-4725.0 CUT 60' REC 60'								
473	4665.0-66.0	4.5	3.7	4.2	4.6	79.0	2.86	DOL,SL/ANHY,STY,SL/F,SL/V
474	4666.0-67.0	6.2	1.6	2.9	21.2	60.6	2.86	DOL,ANHY,SHR,STY,SL/F,SL/V
475	4667.0-68.0	0.3	0.2	3.3	25.0	56.8	2.87	DOL,ANHY,STY,DDL,SL/F,V
476	4668.0-69.0	4.0	1.8	5.0	11.4	77.1	2.88	DOL,STY,SL/F
477	4669.0-70.0	0.8	<0.1	7.9	11.6	68.8	2.86	DOL,V/F,SL/V,STY
478	4670.0-71.0	4.6	0.3	6.8	10.7	79.4	2.85	DOL,SL/ANHY,STY,SL/V,SL/F
479	4671.0-72.0	295.	0.3	6.8	31.6	43.0	2.85	DOL,SL/ANHY,V/F,DDL,SHR,FOSS
480	4672.0-73.0	3.5	0.1	3.1	41.9	41.9	2.85	DOL,SL/ANHY,DDL,V/F,STY,SHR
481	4673.0-74.0	<0.1	*	3.6	3.4	81.4	2.86	DOL,SL/ANHY,STY,SL/F
482	4674.0-75.0	5.4	4.2	7.4	8.6	70.4	2.85	DOL,SL/ANHY,V/F,SL/V,STY
483	4675.0-76.0	2.2	0.4	6.3	14.4	67.1	2.85	DOL,SL/ANHY,STY,SL/F,SL/V
484	4676.0-77.0	0.2	0.2	4.9	19.1	67.1	2.84	DOL,SL/ANHY,STY,SL/F,SL/V
485	4677.0-78.0	7.2	2.3	8.5	16.6	31.0	2.86	DOL,SL/ANHY,SL/F,SL/V,DDL,STY
486	4678.0-79.0	7.6	0.5	7.4	14.1	36.4	2.85	DOL,SL/ANHY,STY,SL/V,V/F
487	4679.0-80.0	27.	24.	13.9	27.0	26.6	2.87	DOL,SL/ANHY,V/F,STY,DDL
488	4680.0-81.0	6.9	*	11.6	27.6	18.4	2.85	DOL,SL/ANHY,STY,DDL
489	4681.0-82.0	30.	29.	13.9	15.2	27.1	2.87	DOL,ANHY,STY,SL/F
490	4682.0-83.0	14.	14.	10.9	15.4	26.2	2.85	DOL,ANHY,STY,V/F
491	4683.0-84.0	0.1	<0.1	1.1	25.0	45.0	2.87	DOL,SL/ANHY,V/F,STY
492	4684.0-85.0	0.2	0.2	4.9	18.0	31.1	2.86	DOL,V/F,SL/V,STY
493	4685.0-86.0	0.4	0.1	2.7	30.0	40.0	2.84	DOL,V/F,STY
494	4686.0-87.0	2.5	0.7	2.2	9.5	57.1	2.85	DOL,V/F,PP,STY
495	4687.0-88.0	11.	11.	10.4	21.5	22.4	2.85	DOL,V/F,DDL
496	4688.0-89.0	11.	9.2	9.5	24.4	26.0	2.85	DOL,SL/ANHY,STY,DDL,SL/F
497	4689.0-90.0	6.2	6.1	12.0	36.5	25.1	2.85	DOL,SL/ANHY,STY,DDL

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