

CONVOLUTION, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

HILLTOP PETROLEUM CO.
VACUUM GRAYBURG S.A. UNIT 3229-005

DATE : 5-6-79
FORMATION : GRAYBURG

FILE NO : 3202-11118
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

AMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
642	4834.0-35.0	34.	31.	12.1	19.1	28.7	2.88	DOL,SL/ANHY,PP
643	4835.0-36.0	12.	12.	9.9	16.5	29.4	2.86	DOL,ANHY,PP,STY
644	4836.0-37.0	11.	11.	5.6	16.7	34.8	2.84	DOL,SL/ANHY,STY
645	4837.0-38.0	19.	13.	9.8	13.8	34.5	2.87	DOL,SL/ANHY,STY,SL/F,PP
646	4838.0-39.0	9.5	8.2	10.9	19.1	37.4	2.86	DOL,SL/ANHY,V,STY
647	4839.0-40.0	27.	2.6	10.0	17.0	34.0	2.88	DOL,SL/ANHY,STY,SL/F,PP
648	4840.0-41.0	15.	12.	8.3	14.7	34.9	2.87	DOL,ANHY,V/F,STY,PP
649	4841.0-42.0	4.7	4.0	6.5	16.5	31.6	2.88	DOL,SL/ANHY,FOSS,STY
650	4842.0-43.0	5.0	3.4	6.2	13.4	35.4	2.88	DOL,SL/ANHY,PP
651	4843.0-44.0	0.8	0.7	5.1	12.9	35.7	2.88	DOL,SL/ANHY,PP
652	4844.0-45.0	4.4	3.7	6.9	16.7	32.1	2.87	DOL,SL/ANHY,SL/V
CORE NO. 15 4845.0-4900.0 CUT 55' REC 55'								
653	4845.0-46.0	1.4	1.0	6.0	7.1	41.8	2.87	DOL,SL/ANHY,SHR,STY,V
654	4846.0-47.0	41.	3.2	7.7	10.5	39.5	2.86	DOL,ANHY,STY,SHR,V,FOSS
655	4847.0-48.0	4.0	3.9	8.0	10.9	34.7	2.87	DOL,ANHY,V,FOSS,SHR
656	4848.0-49.0	3.2	1.7	6.8	13.3	32.7	2.86	DOL,ANHY,SHR,STY,V,SL/F,STY
657	4849.0-50.0	21.	19.	12.4	11.0	39.2	2.85	DOL,ANHY,V,FOSS
658	4850.0-51.0	18.	15.	14.6	10.5	40.0	2.85	DOL,ANHY,V,FOSS
659	4851.0-52.0	6.1	5.9	11.7	10.9	35.5	2.80	DOL,SL/ANHY,SHR,DDL,STY,V,FOSS
660	4852.0-53.0	14.	12.	12.0	7.8	37.2	2.80	DOL,SL/ANHY,SHR,DDL,V,FOSS,STY
661	4853.0-54.0	3.9	3.4	10.8	9.3	35.6	2.78	DOL,SL/ANHY,SHR,DDL,V,FOSS
662	4854.0-55.0	7.4	6.2	9.3	9.3	34.7	2.82	DOL,SL/ANHY,SHR,DDL,V,SL/F,FOSS,STY
663	4855.0-56.0	3.8	2.6	10.0	12.5	26.9	2.86	DOL,SL/ANHY,SHR,DDL,V,SL/F,FOSS,STY
664	4856.0-57.0	0.4	*	7.1	9.5	35.1	2.83	DOL,SL/ANHY,V,STY,SHR
665	4857.0-58.0	11.	*	10.9	12.2	32.1	2.84	DOL,SL/ANHY,V,F,STY
666	4858.0-59.0	2.1	*	11.6	16.9	30.8	2.86	DOL,SL/ANHY,V,STY
667	4859.0-60.0	0.7	*	11.1	13.7	29.2	2.84	DOL,SL/ANHY,STY,V
668	4860.0-61.0	0.4	*	9.0	15.3	29.3	2.82	DOL,SL/ANHY,SHR,V,STY

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 sand in connection with which such report is used or relied upon.