

CONSTRUCTION, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PHILLIPS PETROLEUM CO.
E. VACUUM GRAYBURG S.A. UNIT 3229-005
E. VACUUM GRAYBURG SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO

DATE : 5-6-79
FORMATION : GRAYBURG
DRILL. FLUID: SALT BASE MUD
LOCATION : 1110' FSL & 1290' FWL, SEC. 32, T-17-S, R-35-E, SUR
FILE NO : 3202-11118
ANALYSTS : NEFF
ELEVATION: 3965' GL

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO MAXIMUM	AIR (MD)	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
CORE NO. 1 4035.0-4095.0 CUT 60' REC 60'								
1	4035.0-02.0	3.6	<0.1	2.1	40.3	44.8	2.85	DOL, V/ANHY, DNS, NO SHOW
2	4082.0-03.0	2.8	0.2	3.8	47.4	35.9	2.83	DOL, ANHY, SL/F, STY
3	4084.0-05.0	2.8	0.2	3.9	41.4	25.1	2.88	DOL, ANHY, SL/F, STY
4	4085.0-06.0	0.5	<0.1	1.5	0.0	87.5	2.91	DOL, ANHY, SL/F, STY
5	4086.0-07.0	<0.1	*	1.7	24.7	54.8	2.84	DOL, ANHY, SH LAM, STY
6	4087.0-08.0	9.4	7.1	11.5	21.1	33.6	2.82	DOL, ANHY, SL/F, STY
7	4088.0-09.0	3.9	2.1	4.8	12.2	35.5	2.86	DOL, ANHY, SL/F, STY
8	4089.0-10.0	85.	0.5	3.0	35.1	39.0	2.83	DOL, ANHY, SL/F, STY
9	4090.0-11.0	<0.1	<0.1	2.5	43.1	41.9	2.84	DOL, ANHY, SL/F, STY
10	4091.0-12.0	<0.1	*	2.0	0.0	66.7	2.86	DOL, ANHY, SL/F, STY
11	4092.0-13.0	<0.1	<0.1	0.4	0.0	66.7	2.96	ANHY, DOL, SL/F, STY
12	4093.0-14.0	<0.1	<0.1	2.9	31.0	40.2	2.84	DOL, ANHY, SL/F, STY
13	4094.0-15.0	0.2	0.1	1.3	19.4	59.1	2.87	DOL, ANHY, SL/F, STY
CORE NO. 2 4095.0-4155.0 CUT 60' REC 60'								
14	4095.0-16.0	<0.1	<0.1	3.2	50.0	19.4	2.84	DOL, SL/ANHY, DNS
15	4099.0-17.0	0.3	<0.1	1.5	36.8	47.4	2.88	DOL, V/F
16	4100.0-18.0	0.8	<0.1	2.8	32.1	42.9	2.88	DOL, SL/ANHY, DNS
17	4115.0-19.0	5.5	<0.1	2.2	17.9	57.1	2.85	DOL, ANHY, SL/F
18	4116.0-20.0	6.5	0.2	3.4	35.3	45.1	2.84	DOL, SHY, SL/F, STY
19	4117.0-21.0	0.3	0.2	2.7	31.8	36.6	2.86	DOL, SL/F

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