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329500

GAS SUMMARY

BACKGROUND GAS: 0-0.5 UNITS (0-0.01%)
COMPOSITION: C1
MAXIMUM GAS: DEPTH 2139M (7017FT), 0.5 UNITS (0.01%)
COMPOSITION: C1 = 110 PPM
TRIP GAS: DEPTH 2109.5M (6921FT), 0 UNITS (0%)
COMPOSITION:
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 2125M (6973FT), 9.7M/HR (32 FT/HR)
MINIMUM ROP: DEPTH 2098M (6885FT), 1.5M/HR (5 FT/HR)
AVERAGE ROP: 4.8 M/HR (15.7 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 1.4 - 1.9 DXC AVERAGE: 1.65
SHALE DENSITY, RANGE: - AVERAGE
SHALE FACTOR, RANGE: - AVERAGE
TEMP OUT: 39.5 DEG C TEMP IN: 34.5 DEG C
MUD WT. IN: 9.1+ PPG MUD WT. OUT: 9.2 PPG ECD. 09.2+ PPG
EST PORE PRESSURE: 8.7 PPG EMW EST FRACTURE PRESSURE: 18 PPG EMW

COMMENTS

1.PALYNOLOGY

1540-50M, 1640-50M : (CUTTS) : UPPER N. ASPERUS ZONE : LATE EOCENE - EARLY OLIGOCENE : NEARSHORE MARINE : MARGINALLY MATURE WITH RARE FULLY MATURE SPORES AND POLLEN : MINOR EARLY CRETACEOUS REWORKING

1746-55M, 1836-45M, 1935-44M, 1944-53M : (CUTTS) : INDETERMINATE : VERY RARE POLLON SHOW VARIABLE MATURITY MOSTLY IN THE MATURE TO POST MATURE RANGE : THE RARE BETTER PRESERVED POLLEN MAY BE CAVED INTO A POST-MATURE SECTION

2. ORGANIC PETROLOGY

1. VITRINITE REFLECTANCE

DEPTH (M)	MEAN MAXIMUM REFLECTANCE	STANDARD DEVIATION	RANGE	NUMBER OF DETERMINATIONS
1640-50	0.60++	0.06	0.50-0.71	16
1640-50	1.10	0.20	0.85-1.36	5
1640-50	2.22	0.11	2.11-2.32	2
1836-45	3.84	0.45	3.26-4.52	19

++ PREFERED VALUE - OTHER POPULATIONS ARE THOUGHT TO BE CAVINGS

2. BRIEF DESCRIPTION

1640-50 SHALE-SILTY INPLACES

1836-45 CHIEFLY SANDSTONE, 5-10% SHALE, 5% COAL (ANTHRACITE) AND COKE.

PROPORTIONS OF MACERAL GROUPS

	VITRINITE	INERTINITE	EXINITE
1640-50	10	30	60
1836-45	90	5	5

COMMENTS

1640-50 METRES

THE DOM CONTENT OF THIS SAMPLE IS ESTIMATED TO BE 5-15%. THE MAJORITY OF THE EXINITE IS BITUMINITE (BIODEGRADED ORGAINC MATTER, THERMALLY LABILE AND GENERALLY VERY RICH IN HYDROGEN- THE ROCK EVAL HYDROGEN INDEX FOR THIS SAMPLE SHOULD BE CA 400) OTHER EXINITES PRESENT INCLUDE LIPTODETRINITE, SPORINITE AND ?CUTINITE.

THE ABSENCE OF FREE OIL FROM THIS SAMPLE MAY INDICATE THAT THE MAIN HEATING EVENT IS NOT RECENT, ALTHOUGH MORE INFORMATION IS NECESSARY TO VALIDATE THIS INTERPRETATION.