

2881-2885M (9452-9465FT): DOMINANTLY SANDSTONE AND FINELY INTERLAMINATED CLAYSTONE. MAINLY SANDSTONE 2882.5-3.5%. ROCKS AS DESCRIBED IN 2863.5-2869M INTERVAL ABOVE AT 2881.3M; SEQUENCE CONTAINS THIN (1CM) WHITE, SOFT M GR QTZ SS WITH DISTINCTIVE KAOLINITIC(?) CMT AND ELONGATE DR BRN-CLAY PELLETS UP TO 20MM LONG. IN PART PROBABLY GRADES TO CLAY PELLET CONGLOMERATE. CRUSH CUTS CLR W/DOM MED BRT; MOD INTENSE; MED TO LT YLW FLUOR LEAVING CLR DESICCATION RING OF DULL YLW TO GLD TO MED BRT YLW FLUOR.

2885-2893.8M
SANDSTONE (90 PERCENT +): V F GR, HARD TO VERY HARD.

CMT (10-20 PER CENT) DOM WHI KAOLINITIC(?) CLAY; TR-MOD ABUN SILICA O'GROWTHS. FAIR TO GOOD (10-20 PER CENT) VIS POROSITY. NO ODOR OR STAIN. CRUSH CUT CLR W/MOD DULL TO MED BRT AND INTENSE, TRANSP LT TO MED YLW TO GLDEN-YLW FLUOR, LEAVING A CLR DESICCATION RING OF DULL GOLD TO MOD BRT YLW FLUOR.

SUBJECT : ORGANIC PETROLOGY

1. VITRINITE REFLECTANCE

DEPTH (M)	MEAN MAXIMUM REFLECTANCE(%)	STANDARD DEVIATION	RANGE	NUMBER OF DETERMINATIONS
2592-2601	0.66	0.05	0.57-0.77	32
2745-2754	0.77	0.08	0.57-0.87	33

2. BRIEF DESCRIPTION

2.1 LITHOLOGY

2592-601 CHIEFLY COAL, 5-10% SANDSTONE, 5-10% SILTSTONE
2745-54M CHIEFLY SHALE AND SILTSTONE, 20-30% COAL, 10-20% SANDSTONE.

2.2 PROPORTIONS OF MACERAL GROUPS

	VITRINITE	INERTINITE	EXINITE
2592-2601M	70	5	25
2745-2754 SHALESILT	45	30	25
COAL	80	5	15

3. COMMENTS

1 THE MAJOR EXINITES IN THE COALS ARE 2592-601M: RESINITE, SUBERINITE AND EXSUDATINITE, 2745-54M, SPORINITE

2 FLUORESCENCE COLOURS OF RESINITE AND SUBERINITE ARE DULL INDICATING THAT HYDROCARBON GENERATION FROM THESE MACRALS IS WELL ADVANCED.

3 OIL IS RARE IN THE SILTSTONES AND SANDSTONE CUTTINGS.

4 ACCUMULATIONS OF BITUMEN (0.05MM IN DIAM) ARE ALSO PRESENT AND CONTAIN SMALL (0.01MM) INCLUSIONS OF LIGHT OIL.

5 THE RANK GRADIENT IN PELICAN-5 (BASED ON THE DATA AVAILABLE TO DATE) IS APPROX 0.35% VR/KM IN COMPARISON TO APPROX 0.2% VR/KMIN YOLLA-1 AND KOORKAH-1 INDICATING A SIGNIFICANTLY STEEPER GEOTHERMAL GRADIENT IN THIS LOCATION.

SUBJECT : ORGANIC PETROLOGY OF PELICAN-5

1. VITRINITE REFLECTANCE

DEPTH (M)	MEAN MAXIMUM REFLECTANCE(%)	STANDARD DEVIATION	RANGE	NUMBER OF DETERMINATIONS
2790	0.70	0.04	0.60-0.78	36

2. BRIEF DESCRIPTION

2.1 BRIEF DESCRIPTION 2.1 LITHOLOGY

COAL

2.2 PROPORTIONS OF MACERAL GROUPS

VITRINITE	INERINITE	EXINITE
45	15	40