

COMMENTS

1. VITRINITE REFLECTANCE

DEPTH (M)	MEAN MAX. REFLECT (%)	% EXINITE (IN COAL)
1540-50	0.57	10
1736-46	3.45	15
1944-53	4.93	10
2286-95	3.55	10
2385-94	0.73	25
2493-2502	0.65 (0.62 PREFERRED VALUE)	25
2592-2601	0.69	25
2700-2709	0.74	25

- THE SEDIMENTS AT 2493-2502 METRES DEPTH ARE SUFFICIENTLY MATURE FOR THE GENERATION OF
 - GAS
 - LIGHT NAPHTHENIC OIL FROM THE THERMALLY LABILE TERRESTRIAL EXINITE (RESINITE AND SUBERINITE) BUT ARE IMMATURE FOR THE OIL GENERATION FROM THE OTHER EXINITE MACERALS PRESENT.
- THE PRESENCE OF EXUDATINITE (PRIMARY OIL) IS EVIDENCE OF OIL GENERATION IN THE FOLLOWING SAMPLES: 2385-94 AND 2493-502 METRES DEPTH.
- THE WIDE VARIATION OF FLUORESCENCE COLOURS OF EXUDATINITE IN THE SAMPLE FROM 2385-94 METRES DEPTH SUGGESTS THAT OIL GENERATION HAS TAKEN PLACE OVER A CONSIDERABLE PERIOD OF TIME.
- THE PRESENCE OF THUCHOLITE IN THE SAMPLE FROM 2493-502 METRES DEPTH IS EVIDENCE OF OIL MIGRATION.
- SEDIMENTS BELOW ABOUT 2640 METRES DEPTH ARE SUFFICIENTLY MATURE FOR OIL GENERATION FROM ALL EXINITE MACERALS PRESENT.
- FLUORESCENCE COLOURS OF EXUDATINITE IN 2700-2709 METRES DEPTH LIE IN TWO DISTINCT GROUPS (INTENSE FLUORESCING COLOURS AND DULL FLUORESCING COLOURS) WHICH MAY INDICATE TWO PHASES OF GENERATION OF OIL FROM THESE COALS.
- SOME COALS IN 2592-2601 METRES DEPTH ARE RICH IN RESINITE (UP TO 30%).

PALYNOLOGY

DEPTH (M)	ZONE	ENVIRONMENT	MATURITY
2593-2602	MID.M.DIVERSUS	STRONGLY MARINE	MATURE
2700-2709	LOWER M.DIVERSUS	PROB. NON-MARINE	MATURE
2799-2808	UPPER L. BALMEI	NEARSHORE MARINE	MATURE
2844-53	UPPER L. BALMEI	MARGINAL MARINE	MATURE