



MOCAMBORO 11

GEOLOGICAL SURVEY OF VICTORIA

Complex Lithology Results

31-07-91

COMPLEX LITHOLOGY RESULTS

Lithology models

1. Sand-Dolomite	2.62 to	2.89
2. Sand-Limestone	2.62 to	2.75
3. Sand	2.63 to	2.69
4. Limestone	2.67 to	2.75
5. Dolomite	2.75 to	2.89
6. Limestone-Dolomite	2.68 to	2.89

Mineral table

	RHOB MIN	RHOB MAX	PHIN MIN	PHIN MAX	GR MIN	GR MAX	t MIN	t MAX	RT MIN	RT MAX
1. Salt		2.150		0.020		30.000	213.255	229.659	100.000	
2. Trona	2.050	2.150	0.350		20.000	203.412	223.097		100.000	
3. Anhydrite	2.920			0.020	20.000	157.480	170.604		100.000	
4. Gypsum	2.300	2.400	0.450		20.000	164.042	180.446		100.000	
5. Coal		2.000	0.500				328.084			

Recommended saturation equations

1. Schlumberger Koil = $62500 * PHIE^{**6.0} / SWiir^{**2.0}$

2. Timur Koil = $8581 * PHIE^{**4.4} / SWiir^{**2.0}$
 Kgas = $0.1 * Koil$

Where PHIE is in decimal and K is in md

CPX flag values

- 1. VCL greater than 0.95
- 2. VN greater than 0.75
- 3. VS greater than 0.75
- 4. Bad hole condition
- 5. Matrix density greater than Lithological model
- 6. Matrix density less than Lithological model
- 7. Porosity derived from Sonic Log
- 8. Porosity derived from or limited by PHIMAX
- 9. Porosity derived from Density Log
- \$. Pay zone

Water saturation equations

- 1. Indonesia
- 2. Simandoux
- 3. Fertl & Hammock
- 4. Laminar
- 5. Bussian

Zone no. 1 -----
Depth interval 960.0 to 1164.9
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ

Zone no. 2 -----
Depth interval 1164.9 to 1200.0
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ

Zone no. 3 -----
Depth interval 1200.0 to 1255.0
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ

Zone no. 4 -----
Depth interval 1255.0 to 1305.0
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ

Zone no. 5 -----
Depth interval 1305.0 to 1350.0
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ

Zone no. 6 -----
Depth interval 1350.0 to 1364.0
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ

Zone no. 7 -----
Depth interval 1364.0 to 1374.0
Logs available DEPT GR SP LLS LLD A ?33q MLL DT ? CALI NPHI RHOB DRHO IrJq @ LLM= q
IrJ