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DEPARTMENT OF MINES
RECEIVED/SENT
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OPERATOR

JULY 10, 1985

AMOCO PRODUCTION COMPANY - HOUSTON
ROBERT L. BLANTON
ATTN: J. C. STRICKLAND - MC 2.470
W. R. MOEHL - MC 2.232
HO-AUP-215-T-367-BFW

AMOCO AUSTRALIA PETROLEUM COMPANY - HOBART
ATTN: W. C. COWAN
ABB-AUP-034-T-367-BFW

AMOCO CORPORATION
ATTN: D.B. WILKIE - MC 4502
B.G. NEWTON - MC 4703
CH-AUP-061-T-367-BFW

SOUTH AUSTRALIAN OIL GAS CORP. TELEX: 88900
P. MOIGNARD

BASS STRAIT OIL AND GAS TELEX: 33427
J. DAVIDSON

PERTH PARTNERS TELEX: 94830
PETER LANE

TASMANIAN DEPARTMENT OF MINES TELEX: 58276
H. MURCHIE

BUREAU OF MINERAL RESOURCES TELEX: 62109
THE DIRECTOR
ATTN: J. WHITE

MISC-AUP-352-T-367-BFW

YOLLA NO.1 FORMATION TOPS AND CORRELATIONS

BASED ON DRILL CUTTINGS AND A WIRELINE LOG COMPARISON WITH BASS -1, THE FOLLOWING TOPS AND CORRELATIONS HAVE BEEN MADE FOR YOLLA -1.:

	YOLLA -1	BASS -1
TOP BASAL OLIG. 'SAND'	1589M (5216')	5375'
TOP DEMONS BLUFF FM	1599M (5245')	5375'
SONIC LOG INTERVAL 'A'	1663M-1674M (5456'-5492')	5545'-5590'
SONIC LOG INTERVAL 'B'	1715M-1722M (5627'-5650')	5705'-5725'
SONIC LOG INTERVAL 'C'	1740M-1744M (5709'-5722')	5795'-5810'
TOP EVCM (EST.)	1771M (5811')	5895'

IN YOLLA -1, A 7.9M (26') THICK VERY SILTY AND SANDY CLAYSTONE INTERVAL WITH SANDSTONE INTERBEDS WAS PENETRATED AT 1589M (5216'). THIS INTERVAL, ALTHOUGH LESS SANDY, IS INTERPRETED TO CORRELATE WITH THE BASAL OLIGOCENE SAND AT 5375' IN THE BASS -1 WELL. THE CALIPER CURVE IN YOLLA -1 COMES INTO GAUGE OVER THE INTERVAL AND BEST REPRESENTS ITS SANDY CHARACTER (FILTER CAKE EXISTS AT 1592M AND 1597M). IMMEDIATELY BELOW THE SANDY INTERVAL IS PICKED THE DEMONS BLUFF FM AT 1599M. BELOW THIS DEPTH, SONIC CURVE CORRELATIONS ARE USED WITH THREE RELATIVELY GOOD MATCHES AT INTERVALS REFERRED TO AS 'A', 'B' AND 'C'. BASED ON THESE, THE TOP OF THE EVCM SHOULD BE APPROXIMATELY 1771M (5811') KB.

CLAYSTONE/SHALE HYDRATABILITY AND CALCAREOUS CONTENT DECREASE BELOW 1745M (5724') AS SHOWN BY LESS HYDRATABLE DRILL CUTTINGS, AN INCREASE IN SHALE DENSITIES, AND A DECREASE IN SHALE FACTORS AND CALCIMETRY VALUES (SEE DATA INCLUDED WITH THE JULY 10, 1985 DRILLING REPORT - TELEX HO-AUP-212-T-933.2). ADDITIONALLY, ARENACEOUS CONTENT INCREASES BELOW 1745M. THESE TRENDS ARE TYPICAL OF THE LOWER DEMONS BLUFF FM AND LEND SUPPORT FOR THE CORRELATIONS AND THE EXPECTED TOP OF THE EVCM. THEY ALSO PROVIDE CONFIDENCE FOR THE CASING POINT SELECTION - WITHIN ROCK CAPABLE OF MAINTAINING ITS INTEGRITY FOR A REASONABLE AMOUNT OF TIME DURING EXPOSURE TO DRILLING FLUIDS.

REGARDS
C W WARING
AMOCO AUSTRALIA PETROLEUM COMPANY.