

APPENDIX 2

DRILLING SUMMARY

BROUGHTON-1

<u>DATE</u>	<u>TIME</u>	
18 August	0730	Spud well with 7-7/8 inch rotary bit (Bit No. 1)
	1000	Make up mud
	1030	Drill 7-7/8 inch hole
	1100	Ream hole to straighten, hard ground
	1400	Repair Lombardini on Mud pump
	1500	Drill 7-7/8 inch hole to 10.2 metres
	1900	Circulate
	2000	Set 6-5/8" conductor at 10.2 metres and cement with 6 sacks Class "A" cement
	2100	Wait on cement
19 August	0500	Make up CHD101 core barrel
	0600	Cement top of conductor - wait on cement
	0700	Replace valve seats on mud pump
	0900	Pick up and run CHD101 (Bit No. 2) core assembly in hole
	0930	Core with CHD101
20 August	0400	Survey 41.0m, 0°
	0430	Core with CHD101
	1930	Repair chuck
	2030	Core with CHD101 to 83.5 metres
	2330	Survey 83.5m, 0°
21 August	0000	Pull out of hole and lay down drill pipe
	0030	Condition mud prior to reaming
	0100	Make up 5-5/8 inch rotary bit (Bit No. 3) and bottom hole assembly
	0130	Ream hole to 5-5/8 inch
	1400	Circulate and condition hole
	1415	Pull out of hole and lay down bottom hole assembly
	1530	Set 5 inch casing at 83.5 metres and cement with Class "A" cement
	1800	Wait on cement
22 August	0100	Nipple up B.O.P's
	0430	Pressure test B.O.P's, choke manifold, and kill line to 1000 psi O.K.
	0530	Run in hole with 4½ inch tricone bit and drill out cement, shoe and formation to 89.9 metres.
	1000	Formation integrity test. Formation pressured up to 800 psi with formation still holding.
	1015	Pull out of hole, make up 6 metre core barrel and CHD 101 bit (Bit No. RR2), Run in hole

<u>DATE</u>	<u>TIME</u>	
	1200	Core with CHD101
	1930	Pull out of hole. Bit Change (Bit No. 5), run in hole.
	2030	Core with CHD101
23 August	2030	Pull out of hole. Bit change (Bit No. 6) Run in hole.
	2200	Core with CHD 101
24 August	0200	Survey 180m, 0°
	0230	Core with CHD 101
25 August	0700	Survey 286.4m, 1°
	0730	Wash Rig
	0800	Core with CHD 101
	2130	Pull out of hole. Bit Change (Bit No. 7), Adjust core tubes, Run in hole
	2330	Core with CHD 101
26 August	0500	Recover Dropped Core
	0530	Core with CHD101
	1500	Survey 379m, 1°
	1530	Core with CHD101
27 August	2130	Pull out of hole, Bit Change (Bit No. 8), Run in hole
28 August	0030	Core with CHD101
	0400	Pull out of hole - as unable to retrieve tube, Run in hole
	0730	Core with CHD101
	1100	Repair chuck and clean chuck jaws
	1300	Core with CHD101
	2130	Survey 483.0m, 0°
	2200	Core with CHD101
29 August	1600	Service Rig
	1630	Pull out of hole, Bit Change (Bit No. 9), Run in hole
	2100	Core with CHD101
30 August	1015	Survey 585.6m, 0°
	1045	B.O.P. test O.K.
	1145	Pull out of hole. Bit Change (Bit No. 10), Run in hole
	1530	Core with CHD101
31 August	0600	Repair chuck jaws
	0800	Service Rig
	0830	Pull out of hole, Bit Change (Bit No. 11), Run in hole
	1245	Core with CHD101
	1530	Pull out of hole, Bit Change (Bit No. 12), Run in hole.
	2030	Circulate and condition mud, raise viscosity to 40 sec
	2130	Core with CHD101

<u>DATE</u>	<u>TIME</u>	
1 September	2000	Tube jammed, work overshot and release overshot
	2200	Pull out of hole.
	2400	Bearing collapsed and jammed tube, remove tube from barrel
2 September	0230	Make up 3m core barrel, Run in hole.
	0400	Core with CHD101
	0530	Repair chuck
	0745	Core with CHD101
	1145	Pull out of hole, Bit Change (Bit No. RR6), Run in hole.
	1630	Core with CHD101
	2100	Survey 697 metres, 0°
	2130	Core with CHD101
3 September	0600	Pull out of hole, Bit Change (Bit No. 13), Run in hole.
	1100	Core with CHD101
	1800	Pick up dropped core and remove core from barrel
4 September	0000	Pull out of hole. Core in barrel, Make up 6m barrel. Run in hole.
	0400	Core with CHD101
5 September	0100	Pull out of hole, Bit change (Bit No. 14), Run in hole.
	0500	Core with CHD101
	0830	Repair burst Hydraulic hose
	1030	Core with CHD101
	1100	Repair chuck
	1300	Core with CHD101
6 September	1745	Service Rig
	1800	Core with CHD101
	2030	Repair overshot and wireline
	2200	Survey 823 metres. Missrun, no film in disk
	2230	Core with CHD101
7 September	0700	Pressure test drill string, broken tool joint located and removed
	1045	Core with CHD101
	1130	Pull out of hole, Bit change (Bit No. 15), Run in hole.
	1800	Core with CHD101
8 September	1800	Level Rig
	1830	Core with CHD101
9 September	0130	Pull out of hole. Identify split pipe and remove. Run in hole.
	0230	Core with CHD101 to 908.9 metres
	1800	Circulate and condition mud
	1830	Pull out of hole
	2330	Rig up to run wireline logs

<u>DATE</u>	<u>TIME</u>	
10 September	0030	Run Wireline logs. SP - Resistivity Sonic GR-Cal-Density-Neutron 908.9m to casing shoe
	1500	Repairs, fit new winch block and cable
	1800	Wait on drill rods, Ex Townsville
12 September	1600	Run in Hole with Bit No. 16
	1900	Circulate and condition hole
	2100	Pull out of hole to casing shoe
	2130	Circulate and condition hole, wait on drill rods
13 September	2230	Run in hole
	2300	Circulate and condition hole
14 September	0100	Core with CHD101
	1730	Repair feed valve, service Rig
	1800	Core with CHD101
15 September	0400	Pull out of hole. Bit change (Bit No. 17), Run in hole.
	1130	Core with CHD101
	1730	Repair feed valve, service Rig
	1800	Core with CHD101
	2000	Repair chuck
	2030	Core with CHD101 to 1000 metres total depth
16 September	0830	Survey 1000 metres 1-3/4"
	0930	Condition hole for logging
	1000	Pull out of hole for logging
	1400	Run Wireline logs - TD to 900 metres
17 September	0000	Wait on Velocity Data
	0600	Fit single line winch block
	0900	Run in hole
	1200	Wait on Velocity Data
	1600	Pull out of hole, lay down drill rods
	2000	Wait on Velocity Data
18 September	0000	Run Velocity survey
	1000	Set cement plugs (98-68m) and (30m - surface)
	1130	Rig Down