BUNGA CREEK-2 CUTTINGS DESCRIPTIONS
Wellsite Geologist: J. Mulready. Well spudded 26.2.03

DEPTH m	ROP min/m	Gas Units	DESCRIPTION
0-3	3.3	Not operative	**Sand** : Buff-lt brn, unconsol.consisting of clear, lt brn, brn, rosy and wh c-vcg srded-rded qtz grains Clay passing into suspension.
3-6	5.7	Not operative	**Gravel & Sand**: Unconsolidated, buff – lt brn a/a but grading to gravel
6-9	3.0	0	**Sand:** buff-lt brn, unconsol. a/a pred. c-vcg
9-12	2.7	0	**Sand:** buff-lt brn, unconsol, cons. Of clear, lt brn –orange and wh pred m-cg srded –rded qtz grns,
12-15	2.0	0	**Clay:** Lt brn, soft, adhesive, v.silty
			Ran conductor pipe to 12.4 m
15-18	2.0	0	50% **Clay** a/a 50% **Pebbles** of sang clr & rose qtz
18-21	1.3	0	**Limestone**: lt brn, v.sdy with shell frags, Tr pyr, Tr Glauc.
21-24	2.0	0	**Sandstone**:lt brn, vf-fg, well sort. rded, v. calc.
24-27	1.3	0	**Sandstone**:lt brn, vf-fg, well sort. rded, v. calc.
27-30	1.7	0	**Limestone**: lt brn, wh, cons of angular shell frags corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite Extremely dull gold mineral fluor.
30-33	1.7	0	50%**Limestone** a/a 50%**Marl** gy, soft, slty
33-36	1.7	0	40%**Limestone** a/a 60%**Marl** a/a
36-39	2.09	0	**Marl** a/a Tr Lst a/a
39-42	2.0	0	30% **Limestone** a/a 70% **Marl** a/a
42-45	1.7	0	60% **Limestone** a/a 30% **Marl** a/a grding to calc siltst. 10% **Coal** Blk
45-48	1.3	0	80% **Limestone** a/a

			20% **Sandstone**: lt gy vfg Comm Tr **coal**
48-51	1.3	0	80% **Limestone** a/a 20% **Sandstone**: lt gy vfg Comm Tr **coal** Marl passing into suspension
51-54	1.3	0	80% **Limestone** a/a 20% **Sandstone**: lt gy vfg Comm Tr **coal**
54-57	1.0	0	50% **Limestone** a/a shell frags to 8 mm 50% **Marl** gy, soft, sdy
57-60	1.7	0	90% **Limestone**: lt gy, wh, cons of angular shell frags corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite Extremely dull mineral fluor. 10% **Marl** gy, soft, sdy
60-63	1.7	0	90% **Limestone** a/a 10% **Marl** gy, soft, sdy
63-66	1.3	0	**Limestone**: a/a
66-69	2.0	0	**Limestone**: a/a ***Mud check – Vis 34 Wt 9.3 lb/gal out***
69-72	2.3	0	**Limestone**: a/a
72-75	3.3	0	**Limestone**: a/a
75-78	2.0	0	**Limestone**: a/a larger frgs to vcg
78-81	1.3	0	**Limestone**: lt gy, wh, cons of angular shell frags corals, corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite. Extremely dull mineral fluor
81-84	1.3	0	**Limestone**: lt gy, cream, cons of angular shell corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite. Extremely dull mineral fluor.
84-87	2.0	0	**Limestone**: a/a
87-90	2.7	0	**Limestone**: a/a
90-93	2.3	0	**Limestone**: a/a c-vcg
93-96	3.3	0	**Limestone**: a/a
96-99	2.7	0	**Limestone**: a/a
99-102	2.7	0	**Limestone**: a/a ***Mud check – Vis 37 Wt 8.9+. lb/gal after circln.***
102-105	1.7	0	**Limestone**: a/a
105-108	2	0	**Limestone**: a/a
108-111	1.7	1	**Limestone**: a/a

111-114	1.7	1	**Limestone**: a/a
114-117	2.3	0	**Limestone**: a/a
117-120	2.3	0	**Limestone**: a/a
120-123	3.9	0	**Limestone**: a/a
123-126	1.7	0	**Limestone**: a/a
126-129	1.7	0	**Limestone**: lt gy, cons of angular shell frags corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite. Extremely dull mineral fluor
129-132	2.6	0	**Limestone**: a/a
132-135	3.3	0	**Limestone**: a/a
135-138	3	0	**Limestone**: a/a ***Mud check – Vis 41 Wt 8.9+ lb/gal out***
138-141	3	0	**Limestone**: a/a
141-144	3	1	**Limestone**: a/a
			Ran casing to 141 m
144-147	0.9	0	**Limestone**: a/a
147-150	1.3	0	**Limestone**: a/a
150-153	1.3	0	**Limestone**: a/a
153-156	0.75	0	**Limestone**: a/a
156-159	3	1	**Limestone**: a/a
159-162	3.7	1	**Limestone:** a/a
162-165	3.3	1	**Limestone**: lt gy[-grn, wh, cons of angular shell frags corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite. Extremely dull mineral fluor
165-168	3.3	1	**Limestone**: a/a ***Mud check – Vis 31 Wt 9.3 lb/gal out Ran 5.5" csg Shut down for rig repairs***
168-171	1.7	1	**Limestone**: a/***a*** ***Switched to KCl polymer mud system. Mud check – Vis 37 Wt 8.5 lb/gal out No discernable trip gas.***
171-174	2.3	2	**Limestone**: lt gy-grn, wh, cream, cons of angular shell frags corals, bryozoa, minor brachiopods, lamellibranchs, gasteropods & undiff. calcite. Extremely dull mineral fluor
174-177	2.0	0	**Limestone**: a/a
177-180	3.0	0	**Limestone**: a/a Tr gy grn **marl**, soft, dispersive.
180-183	3.7	1	**Limestone**: a/a common Tr gy grn **marl**, soft, dispersive

183-186	6.3	1	90% **Limestone:** a/a 10% **Marl:** gy grn, soft dispersive - probably partially dispersing into mud ***Carbide lag test:- Lag time 2 min from bottom, 19 units gas.***
186-189	2.0	1	60% **Limestone**: a/a 40% **Marl**: a/a
189-192	4.3	1	**Limestone**: a/a
192-195	3.0	1	60% **Limestone**: a/a 40% **Marl**: a/a
195-198	5.7	1	60% **Limestone**: a/a 40% **Marl:** a/a
198-201	3.0	1	80% **Limestone**: a/a but pred. coral, bryozoa. 20% **Marl**: a/a
201-204	4.0	1	40% **Limestone**: a/a 60% **Marl**: a/a
204-207	3.3	1	50% **Limestone**: a/a 50% **Marl**: a/a
207-210	8.0	1	40% **Limestone**: a/a 60% **Marl**: a/a
210-213	4.6	1	95% **Limestone** a/a 5% **Marl** a/a Resumed drilling after 1-1/2day shutdown. 2 units trip gas
213-216	9.3	2	30% **Limestone** a/a 70% **Marl** a/a
216-219	9.3	1	40% **Limestone**: a/a 60% **Marl**: a/a
219-222	14.7	1	30% **Limestone**: a/a 70% **Marl**: a/a ***Mud check – Vis 35 Wt 8.5+ lb/gal out***
222-225	7.0	1	**Marl** a/a Tr Limestone a/a Resumed drilling after 1 day shutdown
225-228	12.7	2	50% **Limestone**: a/a 50% **Marl**: a/a
228-231	7.3	1	95% **Limestone** a/a 5% **Marl** a/a

231-234	14	1	30% **Limestone**: a/a 70% **Marl**: a/
234-237	8.7	1	60% **Limestone**: a/a 40% **Marl**: a/a
237-240	12.3	1	**Limestone:** a/a Tr Marl a/a
240-243	9.3	1	**Limestone:** a/a Tr Marl a/a
243-246	12.3	1	**Limestone**: lt gy, wh, orange brn, cons. of unconsol. shell frags-bryozoa & coral & calcite. Dull yellow min fluor. ***Mud chec k – Vis 41 Wt 8.6 lb/gal out***
246-249	13	1	50% **Limestone**: a/a 40% **Sstone**: gy grn vfg, srded, well sted, arg.calc. Grades to calc. slst Tight No shows. Tr pyr 10% **Marl**: a/a Commenced drilling after dilution of mud to reduce pressure on top drive. No trip gas. Marl now likely to be dispersed
249-252	14.7	1	.90% **Limestone**a/a 10% **Sstone**: a/a
252-255	8	1	60% **Limestone**a/a 40% **Sstone**: a/a
255-258	10	1	40% **Limestone**: a/a 20% **Sstone**: a/a 40% **Marl**: gy grn, soft dispersive.
258-261	5.3	1	**Limestone**: a/a
261-264	7	1	Poor sample 90% **Limestone** : a/a 10% **Slstone**: gy grn soft v.arg., calc. Grades to marl. Tr sst a/a Tr pyr ***Carbide check returned in 14 minutes, 31 units. Lag = 3.5 mins*** ***Mud Check Vis 34 Wt 8.6***
264-267	8.3	1	Poor Sample *90%* **Limestone** *: a/a* *10%* **Sitlstone*/marl***: *a/a*
267-270	13	1	Poor Sample

			90% **Siltstone/marl**: a/a *10%* **Limestone** *: a/a*
270-273	47.7	1	**Marl**: gy grn, soft, slty. (good returns) ***(Drilling with major reduction in WOB and rotary speed in order to preserve seal integrity).***
273-276	27.7	2	**Sstone:** gy grn, brn**,** vfg, srded, mic.,calc, v.arg. sl glauc, soft, tight, no shows grades to Calc. Sltstone in part
276-279	24.7	1	**Sstone**: grding to sltstone a/a No shows ***Mud check: Vis.35 Wt 8.6 lb/gal WL 9cc pH 8.5, Cl 15000 ppm***
279-282	21	2	**Sstone:** grding to sltstone a/a No shows
282-285	22	1	**Sstone:** grding to sltstone a/a No shows
285-288	30	3	**Sstone:** grding to sltstone a/a No shows Last seal failed. Rig shut down till 12.3.03
288-291	16.7	2	Almost no sample – rotary speed increased 30% **Limestone**: (cavings ?)cons. of lt gy, clr and brn shell frags 70% **Sstone:** grding to sltstone a/a No shows ***Mud check: Vis.35 Wt 8.5 lb/gal Chlorides 16500 ppm***
291-294	6.0	2	40% **Limestone** *:* a/a *Occ forams* 30% a/a No shows 30% **Glauconite? pellets**: black, srded, firm Comm tr pyr.
294-297	9.3	1	30% **Limestone**: a/a 60% **Sstone/Sltsone**: a/a 10% **Glauconite? pellets**: a/a Comm tr pyr. Trip gas 4 units
297-300	18	3	Poor sample, polymer still un-sheered **Sstone**: gy brn, arg., slty grding to sltst
300-303	7.3	1	**Sstone**: gy brn a/a v arg.
303-306	19.7	1	**Sstone**: a/a Tr pyr.Tr pyr
306-309	3.3	1	20% **Limestone**: a/a 80% **Sstone**: a/a ***Carbide check 138 units after 22 mins. Lag time 5 mins***
309-312	14.7	2	Poor sample **Sstone:** gy grn, brn**,** vfg, srded, mic.,calc, v.arg. sl. carb, soft, tight, no shows grades to Calc. Sltstone in part

312-315	14.0	2	Poor sample **Sstone**: a/a No shows
315-318	10	4	Poor sample **Sstone**: a/a No shows
			COMMENCED CORING @ 318 m.
318-320	11	2	
320-322	11	1	
322-325	21	3	
325-328	26.6	3	
328-331	11.6	1	
331-333	42.6	1	
333-336	34.5	0	
336-339	23.7	1	
339-342	16	0	
342-345	11.3	0	
345-348	21	0	
348-351	170	0	