



PE906757

PETROLEUM DIVISION

16 MAR 1993

# APPENDIX-4

NALANGIL- I

SAMPLE DESCRIPTION

W1035

## GAS AND FUEL EXPLORATION N.L.

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS						FLUOR			
			TOTAL	C1	C2	C3	C4	NAT.				
<b>SPUDDED @ 0200 HRS.</b>												
<b>4-8-1990</b>												
	K.B. = 146m											
	K.B. to G.L. = 3.05m											
	16" Conductor set @ 6.00m.											
Surf-21	100	<u>CLAYSTONE</u> , light yellow brn., med. pinkish red, light reddish brn. in part, soft sticky, rarely disp, mod. silty, abundant multi-col. vf-f sand grains/lithics commonly reddish, vf mica (the claystone appears to be the product of decomposed basalt)										
21-26	50	<u>CLAYSTONE</u> as above										
	50	<u>CLAYSTONE</u> light to med. grey, soft, sticky, rare-mod. silty, mod calcareous, rarely becomes marly, trace foram, trace fine quartzose sand v. lithic										
26-30	100	<u>CLAYSTONE</u> , med.-dk gry, med-dk green gry, speckled, v. soft sticky rarely disp., com. silty, v. silty in part, tr. v.f. loose sand, tr.-com. f. multi-col. lithics (possibly cavings)										
30-35	100	<u>CLAYSTONE</u> , as above, slightly calc, tr. fossil frag, becoming more sandy and silty with depth.										

## GAS AND FUEL EXPLORATION N.L.

WELL: NALANGIL NO#1	DATE: 04/08/90	GEOLOGIST: A. TABASSI	PAGE: 2 OF 14	SHOWS					
				GAS			FLUOR		
DEPTH (m)	%	SAMPLE DESCRIPTION	TOTAL	C1	C2	C3	C4	NAT.	CUT
35-40	100	CLAYSTONE as above							
40-45	100	CLAYSTONE generally as above, com. forams, bryozoa and other fossil frag, rare chlorite and/or glauconite pellets, com. lithics with minor							
		Tr SANDSTONE, lt. gry, lt. green gry in part, lt brn gry in part, generally loose, occ. firm-friable, vf-f, sa-sr, mod-well sorted qtz and lithic frag, com med. gry, rarely lt green gry clay. mtx, slightly-mod calc, rare pyrite & mica, poor-none vis. Ø							
45-50	100	CLAYSTONE as above							
		Tr SANDSTONE as above, loose, trace coal frag.							
50-55	90	CLAYSTONE as above							
		10 SANDSTONE as above (Note: Sandstone had abundant disp. clay. mtx which was mashed away).							
55-60	95	CLAYSTONE as above							
	5	SANDSTONE as above							
60-65	95	CLAYSTONE as above, rarely firm in part							
	5	SANDSTONE as above, generally loose, v. rarely firm in part							

## GAS AND FUEL EXPLORATION N.L.

DEPTH (m)	%	SAMPLE DESCRIPTION	GAS SHOWS						FLUOR.
			TOTAL	C1	C2	C3	C4	NAT.	
65-68.78	95	CLAYSTONE as above, becoming dom. med. brn. gry, v.silty & disp, fossiliferous as above							
5	SANDSTONE	as above, dom. lt-med brn gry, loose, vf-f, sa-sr well sorted qtz, abundant disp. med brn gry clay. mtx, com-abundant lithics of different shade of yellow and/or orange, slightly calc. tr. fossil frag, rare amber (?)							
		Drilled to 68.78m (9.30 am 04/08/90)							
		Set Casing Shoe @ 64.24m							
		Drilled out of casing shoe							
		Drilled new formation to 73m							
		Formation Integrity Test @ 73m (3.00 am 06/08/90)							
68.78-75	100	CLAYSTONE as above							
	Tr	SANDSTONE as above							
75-80	85	CLAYSTONE generally as above, med brn gry, med gry, soft, occ firm, disp, rarely sticky, silty in part, rare lithic, interbedded/interlam with;							

## GAS AND FUEL EXPLORATION N.L.

WELL: NALANGIL NO#1	DATE: 06/08/90	GEOLOGIST: A. TABASSI	PAGE: 4 OF 14	SHOWS					
				GAS			FLUOR		
DEPTH (m)	%	SAMPLE DESCRIPTION	TOTAL	C1	C2	C3	C4	NAT.	CUT
15	SANDSTONE	lt-med brn gry, loose, occ friable, vf-f, occ grading to silt size, sa-sr, dom sr, well sorted qtz, abundant med brn gry disp argillaceous mtx, v. slightly calc. tr f.							
		lithics, rare f. mica tr forams and other fossil frag, poor-no vis Ø.							
80- 85	90	CLAYSTONE as above							
	10	SANDSTONE as above							
85- 90	90	CLAYSTONE as above							
	10	SANDSTONE as above							
90- 95	90	CLAYSTONE as above							
	10	SANDSTONE as above							
95-100	95	CLAYSTONE as above							
	5	SANDSTONE as above, occ lt green gry in part							
100-105	100	CLAYSTONE as above, dom lt-med green gry, rare glauc/chlorite							
	Tr	SANDSTONE as above							
105-110	100	CLAYSTONE as above, dom med brn gry, extremely silty							
	Tr	SANDSTONE as above							
110-115	100	CLAYSTONE as above							













## GAS AND FUEL EXPLORATION N. L.

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS					
			TOTAL	C1	C2	C3	C4	NAT.
275-280	80	Tr <u>SANDSTONE</u> fine as above, firm						
	5	COAL as above						
	20	CLAYSTONE as above						
		SILTSTONE as above						
		Tr <u>SANDSTONE</u> as above						
		Tr <u>SANDSTONE</u> fine as above						
		Tr COAL as above						
280-285	85	CLAYSTONE, generally as above, dom med gry med brn gry, rare						
		lt. green grey,						
	15	SILTSTONE as above						
285-290	90	CLAYSTONE, generally as above, v. disp, tr-com f-med sand						
		grains						
	10	SILTSTONE as above						
290-295	100	CLAYSTONE, off white-v lt. gry, pale green gry in part, soft, sticky, disp in part, mod silty, tr-com lithics,						
295-300	100	CLAYSTONE as above						
300-305	95	CLAYSTONE as above in part grading to;						
	5	SILTSTONE, med gry, med green gry, firm, soft in part, med						

## GAS AND FUEL EXPLORATION N.L.

WELL: NALANGIL NO#1	DATE: 06/08/90	GEOLOGIST: A. TABASSI	PAGE: 12 OF 14	SHOWS					
				GAS			FLUOR		
DEPTH (m)	%	SAMPLE DESCRIPTION	TOTAL	C1	C2	C3	C4	NAT.	CUT
		arg. in part, tr multi-col lithics, rare f carb flecks,							
		rare fine mica							
305-310	90	CLAYSTONE as above dom med gry, med green gry, med brn gry in part grading into;							
	10	SILTSTONE as above							
310-315	90	CLAYSTONE as above, tr partially altered feld (?), tr volcanolithics							
	10	SILTSTONE as above							
315-320	75	CLAYSTONE as above							
	25	SILTSTONE as above							
	Tr	SANDSTONE, lt-med gry, lt green gry, off white in part, firm, friable in part, fine, sa-sr, well sorted qtz and volcanolithics, tr biotite, tr altered feld (?), tr kaolinitic clay mtx, tr weak cal cmt, v rare chloritic mtx in part, no vis Ø							
320-325	50	CLAYSTONE as above, v. disp,							
	20	SILTSTONE as above							
	30	SANDSTONE as above, dom loose, mtx disp & washed away							

## GAS AND FUEL EXPLORATION N.L.

WELL: NAI LANG II, NO#1 DATE: 06/08/90 GEOLOGIST: A. TABASSI PAGE: 13 OF 14

SHOWS

FLUOR GAS

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS					
			TOTAL	C1	C2	C3	C4	NAT.
GAS			FLUOR					
325-330	70	CLAYSTONE as above						
	30	SILTSTONE as above						
	Tr	SANDSTONE as above						
330-335	60	CLAYSTONE as above						
	30	SILTSTONE as above						
	10	SANDSTONE as above						
335-340	60	CLAYSTONE as above						
	30	SILTSTONE as above						
	10	SANDSTONE as above						

GAS AND FUEL EXPLORATION N.L.