

APPENDIX E

CASING AND CEMENTING REPORTS

CASING SUMMARY

WELL : Northright-1

DIAMETER : 30 " L.O.T. (Plan / Act.) : 0.00 / 0.00
CSG SHOE MD (Plan / Act.) : 152.00 / 152.87 F.I.T. (Plan / Act.) : 0.00 / 0.00
CSG SHOE TVD (Plan / Act.) : 152.00 / 152.80

DESCRIPTION	DEPTH	LENGTH	CSG ID	WEIGHT	GRADE	THREAD
13 3/8" SHOE JOINT	152.9	5.35	12.42	68.00	L-80	NEW VAM
13 3/8" TO 14" SWEDGE	147.5	0.17				WELDED
14"	147.4	0.50	13.34	106.50		WELDED
14" TO 30" SWEDGE	146.9	0.97				WELDED
30" PUP	145.9	5.05	27.00	310.00	X-52	SF60
30" WELLHEAD HOUSING JOINT	140.8	12.33	27.00	310.00	X-52	SF60

DIAMETER : 9.5/8 " L.O.T. (Plan / Act.) : 0.00 / 0.00
CSG SHOE MD (Plan / Act.) : 242.00 / 246.80 F.I.T. (Plan / Act.) : 12.50 / 10.31
CSG SHOE TVD (Plan / Act.) : 242.00 / 246.80

DESCRIPTION	DEPTH	LENGTH	CSG ID	WEIGHT	GRADE	THREAD
13 3/8"	137.8	2.10	12.42	68.00	L-80	WELDED
13 3/8" TO 20" SWEDGE	135.7	0.15				WELDED
18 3/4" WELLHEAD HOUSING	129.0	0.92				
20"	135.6	6.59	18.73	133.00	X-52	WELDED
9 5/8"	222.1	12.04	8.68	47.00	L-80	NEW VAM
9 5/8"	210.1	12.04	8.68	47.00	L-80	NEW VAM
9 5/8"	198.0	12.04	8.68	47.00	L-80	NEW VAM
9 5/8"	186.0	12.04	8.68	47.00	L-80	NEW VAM
9 5/8"	173.9	12.04	8.68	47.00	L-80	NEW VAM
9 5/8"	161.9	12.04	8.68	47.00	L-80	NEW VAM
9 5/8" PUP	140.7	2.35	8.68	47.00	L-80	NEW VAM
9 5/8" PUP	143.7	3.05	8.68	47.00	L-80	NEW VAM
9 5/8" PUP	149.9	6.15	8.68	47.00	L-80	NEW VAM
9 5/8" TO 13 3/8" SWEDGE	138.3	0.47				WELDED
FLOAT JOINT	234.4	12.31	8.68	47.00	L-80	NEW VAM
SHOE JOINT	246.9	12.44	8.68	47.00	L-80	NEW VAM

EAGLE BAY RESOURCES NL

Casing, Running and Cementing Report

25.04.2001

Well Name & Casing Section

Eagle Bay Resources
Drilling Contractor & Rig
Cement Company & Service Rep.

NORTHRIGHT - 1

Jackson/Wilson
Ocean Bounty
Halliburton - Rod Stares

<u>Basic Data</u>		<u>Mud Data</u>		<u>Hole & Prev Casing Data</u>	
Casing Size	30"x13.3/8"	Type	PHG	Casing Size	n/a
Hole Size	36"	s.g.	1.03sg	Hole OD	
Hole Calipered	no	Preflush		M. Depth	
Caliper Tool used	n/a	seawater	300 bbl	Casing ID	
Est BHT degree.C				Shoe Depth	

<u>Cement. Volumes</u>		<u>Displacement</u>		<u>Pumping Pressures</u>	
Annular Vol.	46.4 bbl	Calc. Disp	16.7 bbl	Max. Pumping Press.	530psi
% Excess	L:% T: 200%	Cmt Unit Disp	16.7 bbl	Sheared Plug with	n/a
Shoe Track	2.5 bbl	Rig Displacement	0	Bumped Plug with	n/a
Rat Hole	0 bbl	Actual Strokes	0 str	Tested Casing with	n/a
Total Volume	134 bbl	Liner size / bbl/stroke	6.5" / 0.1193		

Cement Data

<u>Lead Slurry</u>		<u>Tail Slurry</u>		<u>Spacer(s) Data</u>		<u>Displacement Data</u>	
Cement Type	G.	Cement	G.	Ahead		Mix Rate Lead /Tail	5.0 bpm
Slurry Volume	bbls	Slurry Vol.	134 bbls	Type	seawater	Displacement Rate	8.5
Mix Water	0 bbls	Mix Water	S/W 80 bbls	Volume	75 bbl	Plug Bumped (Y/N)	n/a
Liq. Additive		Liq. Additive		Behind		Disp. Over Calc.	30bbl
Econ	0 gal/bbl	NF-1	0 gal/sk	Type	seawater	Bump Press, psi	0 psi
HR6L	0 gal/bbl	HR6L	0 gal/bbl	Disp. by Rig/C.U		C.U	
Dry Additive	CaCl 1%BWOC	Dry Additive	CaCl 1%BWOC	<u>Centralizers</u>		Make -	
Plan Wt.	(15.9ppg)	Plan Wt.	1.91 sg (15.8ppg)	Type, Number & Spacing	n/a		
Actual Wt.	(15.9ppg)	Actual Wt.	1.91 sg (15.8ppg)	<u>Scratchers</u>		Make -	
Yield	cuft/sk	Yield	1.16 cuft/sk	Type, Number & Spacing	n/a		
Total sacks	sacks	Total	673 sacks				

Casing Data

Total Depth - Rt-metres	154.0
Off Bottom (Rat Hole)	1.0
Casing Shoe depth (mRT)	153.0
W/Depth (m) = 105.5 RT-SL = 25 stick-up (top WH aboce ML) = 1.5 RT to WH Datum	129.0
Landing Collar (make & type)	
1x 13.3/8" x 68ppf L-80 shoe jnt welded to item 2	5.35
1x 13.3/8" x 20" swedge welded	0.17
1x 20"x 30" swedge welded to 30" joint.	0.97
1x 30" upper joint 310ppf X-52 with SF60 pin up.	5.05
1x 30" D/Quip well head housing x SF60 box down. 310ppf X-52	12.33
Total string length:	23.9
Landing String: Drill Quip 30" running tool with 5" S135 DP + SES cement head	140.0

Casing Notes

Conductor string. 30" D/Q well head housing crossed over to 13-3/8" casing shoe.

Detailed Casing and Cementing Report

Ran casing string and PGB with no problems. Hole conditions were good - no significant drag. PGB slope indicator = 0.75deg when first landed. Top of 30" set 1.5m above mud line.

Circulated 75 bbl SW with rig pumps @95spm. Howco pressure tested lines to 1000psi .

Pump/mix LEAD SLURRY Start Time: 22:30hrs 19/11/99.

Mixed & pumped LEAD slurry - pump time = 30 min

Details: 673 sacks 'G' cement mixed with 80 bbls SW (additives = 1% CaCl)

Slurry volume = 134 bbls, density= 1.91 sg, includes 200% open hole excess.

Average Pumping rate = 5.5 bbl/min, maximum pumping pressure = 600 psi

Total Cement pumping time = < 0.5 hour;

Finish Cement Displacement: 10:00hrs 26/4/01 .

Displaced 17bbls w/ Halliburton. **Total displacement time = ~3 min.**

Good returns through job.

Other : refer to Casing Tally Sheet and Halliburton cementers report.

EAGLE BAY RESOURCES NL

Casing, Running and Cementing Report

27.04.2001

Well Name & Casing Section
 Eagle Bay Resources
 Drilling Contractor & Rig
 Cement Company & Service Rep.

NORTHRIGHT-1
 Jackson/Wilson
 Ocean Bounty
 Halliburton - Rod Stares

<u>Basic Data</u>		<u>Mud Data</u>		<u>Hole & Prev Casing Data</u>	
Casing Size	9-5/8"	Type	ph gel	Casing Size	13.3/8"
Hole Size	12.25	s.g.	1.30	Hole OD	16"
Hole Calipered	no	Preflush	see spacer	M. Depth	1450m
Caliper Tool used	n/a	seawater	10 bbl	Casing ID	12.5"
Est BHST deg.C				Shoe Depth	m

<u>Cement. Volumes</u>		<u>Displacement</u>		<u>Pumping Pressures</u>	
Annular Vol.	54 bbl	Calc. Disp	31 bbl	Max. Pumping Press.	650 psi 5 bpm
% Excess	L: % T: 100%	Cmt Unit Disp	22 bbl	Sheared Bottom Plug with	1100 psi
Shoe Track	2.9 bbl	Rig Displacement	0 bbl	Bumped Top Plug with	2200 psi 5 bpm
Rat Hole	0 bbl	Actual Strokes	0 str	Tested Casing with	2200 psi
Total Volume	71 bbl	Liner size / bbl/stroke	6" / 0.1018		

Cement Data

<u>Lead Slurry</u>		<u>Tail Slurry</u>		<u>Spacer(s) Data</u>		<u>Displacement Data</u>	
Cement Type	G.	Cement	G.	<u>Ahead</u>		Mix Rate	Lead / Tail 5.0 bpm
Slurry Volume	bbl	Slurry Vol.	70 bbl	Type	Seawater	Displacement Rate	5 bpm
Mix Water	bbl	Mix Water	SW 72 bbl	Volume	80 bbls	Plug Bumped (Y/N)	Yes
<u>Liq. Additive</u>		<u>Liq. Additive</u>		<u>Behind</u>		Disp. Over Calc.	
CFR3L	gal/bbl	NF-1	gal/bbl	Type	Seawater	Bump Press, psi	2200 psi
SCR-100L	gal/bbl	CFR3L	gal/bbl	<u>Centralizers</u>		Disp. by Rig/C.U	CU
<u>Dry Additive</u>		SCR-100L	gal/bbl	Make -			
Bentonite 19x 110#sx -		Halad-414L	gal/bbl	Type, No. & Spacing -			
Plan Wt.	(12.5ppg)	Plan Wt.	1.90 sg (15.8ppg)	STR-4:	Make -		
Actual Wt.	(12.5ppg)	Actual Wt.	1.90 sg (15.8ppg)	Joints #1 (shoe), #2, #3, (only 3 stop rings)			
Yield	cuft/sk	Yield	1.16 cuft/sk	<u>Scratchers</u>			
Total sacks	sacks	Total	340 sacks	Type, Number & Spacing	n/a		

Casing Data

Total Depth - Rt-metres	250.0
Off Bottom (Rat Hole)	3.2
Casing Shoe depth (mRT)	246.9
W/Depth (m) = 105.5 RT-SL = 25 stick-up (top WH above ML) = 2 RT to WH Datum	128.5
Landing Collar (make & type)	
1x 9.5/8" x 47ppf L80 shoe jnt; b/locked w/ bow spring centraliser & pip ta	Halliburton float collar. 12.4
1x 9.5/8" x 47ppf L80 intermediate jnt; b/locked w/ bow spring centraliser.	Halliburton float collar. 12.3
6x 9.5/8" x 47ppf L80 Vam Intermediate Joints	72.2
1x 9.5/8" x 47ppf L80 Vam pup joint	6.2
1x 9.5/8" x 47ppf L80 Vam pup joint	3.1
1x 9.5/8" x 47ppf L80 Vam pup joint (Welded to Swedge)	2.4
1x 9 5/8" to 13 3/8" Swedge (Welded)	0.5
1x 13 3/8" pup	2.1
1x 13 3/8" to 20" Swedge (Welded)	0.2
1x 20" Pup	6.6
1x Drilquip 18 3/4" Wellhead Housing	0.9
Total string length:	118.8
Landing String: Drilquip 18 3/4" Wellhead running tool + 3x joints 5" DP + 12x joints 5" HWDP + Deepsea Express cement head	140.0

Casing Notes

Intermediate casing consisted of 9 5/8" casing crossed over to 20" with an 18 3/4" wellhead housing

Detailed Casing and Cementing Report

Ran 9.5/8" casing string. Hole conditions very good. No problems whilst running casing. Latched with 30K down and tested with 50K up.

Circulated 2x hole volume with rig pumps @80spm. Pumped 5bbl seawater with fluoro dye.

Howco pressure tested lines to 3000psi. Pumped 5bbl seawater with fluoro dye. Dropped dart - sheared btm plug @1100psi.

Pump/mix LEAD SLURRY Start Time: ~04:39 27/04/01.

Mixed & pumped TAIL slurry - pump time = 15 min

Details: ~340 sacks neat 'G' cement mixed with 72 bbls SW (additives = 1 Gal DAIR 3000L)

Slurry volume = 70 bbls, density= 1.90 sg, includes 100% OH excess.

Average Pumping rate = 5 bbl/min, maximum pumping pressure = 650 psi.

Total Cement pumping time = ~ 43 Minutes.

Cement Displacement: ~04:59hrs 27/04/01 Drop dart with Dowell Deepsea Express - saw top plug shear at 2200psi.

Displaced 22bbls w/ Howco **Total displacement time = ~6 minutes.**

Returns observed with the ROV.

Tested casing to 2200psi - ok.

Other : refer to Casing Tally Sheet and Halliburton cementers report.

EAGLE BAY RESOURCES NL

29.04.2001

Casing, Running and Cementing Report

Well Name & Casing Section

Eagle Bay Resources
Drilling Contractor & Rig
Cement Company & Service Rep.

NORTHRIGHT-1

Jackson/Wilson
Ocean Bounty
Halliburton - Rod Stares

<u>Basic Data</u>		<u>Mud Data</u>		<u>Hole & Prev Casing Data</u>	
Casing Size	P&A	Type	KCI PHPA	Casing Size	9 5/8"
Hole Size	8.5"	s.g.	1.10	Hole OD	8.5"
Hole Calipered	no	Preflush		M. Depth	391 m
Caliper Tool used	n/a	seawater	8 bbls	Casing ID	8.68"
Est BHST deg.C				Shoe Depth	246.8 m

<u>Cement. Volumes - Plug # 1</u>		<u>Displacement - Plug # 1</u>		<u>Pumping Pressures - Plug # 1</u>		
O/H Volume	20.9 bbl	Calc. Disp	9.5 bbl	Max. Pumping Press.	375 psi	4.7 bpm
% Excess	L: % T: 50%	Cmt Unit Disp	9.5 bbl	Sheared Bottom Plug with	- psi	
C/H Volume	8.4 bbl	Rig Displacement	0 bbl	Bumped Top Plug with	- psi	bpm
Rat Hole	0 bbl	Actual Strokes	0 str	Tested Casing with	- psi	
Total Volume	40 bbl	Liner size / bbl/stroke	6" / 0.1018			

<u>Cement. Volumes - Plug # 2</u>		<u>Displacement - Plug # 2</u>		<u>Pumping Pressures - Plug # 2</u>		
O/H Volume	0 bbl	Calc. Disp	9 bbl	Max. Pumping Press.	375 psi	5 bpm
% Excess	L: % T: 50%	Cmt Unit Disp	9 bbl	Sheared Bottom Plug with	- psi	
C/H Volume	15 bbl	Rig Displacement	0 bbl	Bumped Top Plug with	- psi	5 bpm
Rat Hole	0 bbl	Actual Strokes	0 str	Tested Casing with	- psi	
Total Volume	15 bbl	Liner size / bbl/stroke	6" / 0.1018			

Cement Data

<u>Plug # 1</u>		<u>Plug # 2</u>		<u>Spacer(s) Data</u>		<u>Displacement Data</u>	
Cement Type	G.	Cement	G.	<u>Ahead</u>		Mix Rate	Lead / Tail 5.0 bpm
Slurry Volume	38.8 bbl	Slurry Vol.	15 bbl	Type	Seawater	Displacement Rate	5 bpm
Mix Water	23 bbl	Mix Water	9 bbl	Volume	80 bbls	Plug Bumped (Y/N)	-
<u>Liq. Additive</u>		<u>Liq. Additive</u>				Disp. Over Calc.	-
CFR3L	gal/bbl	NF-1	gal/bbl	<u>Behind</u>		Bump Press, psi	-
SCR-100L	gal/bbl	CFR3L	gal/bbl	Type	Seawater	Disp. by Rig/C.U	CU
<u>Dry Additive</u>		SCR-100L	gal/bbl	<u>Centralizers</u>		Make -	N/A
Bentonite 19x 110#sx -		Halad-414L	gal/bbl	Type, No. & Spacing	-		
Plan Wt.	1.90sg (15.8ppg)	Plan Wt.	1.90 sg (15.8ppg)	STR-4:	N/A		
Actual Wt.	1.90sg (15.8ppg)	Actual Wt.	1.90 sg (15.8ppg)	<u>Scratchers</u>		Make -	
Yield	1.16 cuft/sk	Yield	1.16 cuft/sk	Type, Number & Spacing		n/a	
Total sacks	187 sacks	Total	72 sacks				

Casing Data

Total Depth - Rt-metres	250.0
Off Bottom (Rat Hole)	3.2
Casing Shoe depth (mRT)	246.9
W/Depth (m) = 105.5	RT-SL = 25
stick-up (top WH above ML) = 2	RT to WH Datum 128.5

Casing Notes

Detailed Casing and Cementing Report

<p>RIH w/ cut-off cement stinger on 18 jts of 3 1/2" DP, on 5" D/P Circulated bottoms-up with rig pumps Howco pressure tested lines to 1000psi . Pumped 5bbl seawater. Pump/mix PLUG # 1 SLURRY Start Time: ~07:46 29/04/01. Mixed & pumped Plug #1 Tail slurry - pump time = 14 min Details: 187 sacks neat 'G' cement mixed with 23 bbls SW (additives = 1 Gal DAIR 3000L) Slurry volume = 38.8 bbls, density= 1.90 sg, includes 50% OH excess. Average Pumping rate = 5 bbl/min, maximum pumping pressure = 375 psi. Total Cement pumping time = ~ 30 Minutes. Cement Displacement: ~08:00hrs 29/04/01 Displaced 1.2 bbls of seawater and 8.9 bbls of mud w/ Howco Total displacement time = ~2 minutes. Other : refer to Halliburton cementers report. WOC RIH w/ cut-off cement stinger on 3 1/2" DP, on 5" D/P Tag Plug # 1 at 226 m with 5K Circulated bottoms-up with rig pumps Howco pressure tested lines to 1000psi . Pumped 5bbl seawater. Pump/mix PLUG # 2 SLURRY Start Time: ~13:52 29/04/01. Mixed & pumped Plug #2 Tail slurry - pump time = 5 min Details: 72 sacks neat 'G' cement mixed with 9 bbls SW (additives = 1 Gal DAIR 3000L) Slurry volume = 15 bbls, density= 1.90 sg. Average Pumping rate = 5 bbl/min, maximum pumping pressure = 375 psi. Total Cement pumping time = ~ 23 Minutes. Cement Displacement: ~08:00hrs 29/04/01 Displaced 9 bbls of seawater w/ Howco Total displacement time = ~2 minutes. Other : refer to Halliburton cementers report.</p>
