



Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 1 Report Date: 09/12/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Cement Job Type:

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: TMD Set: 921.0 (m) Date Set: 09/12/2004 Csg Type: SURFACE CASING Csg Size: Cmtd. Csg:	Hole Size: SQ TMD: (m) SQ Date: SQ Type: Cmtd. Csg:	Hole Size: TMD Set: Date Set: Csg Type: SQ TMD: SQ Date: Cmtd. Csg:	Hole Size: Top Set: (m) BTM set: (m) Plug Date: Plug Type: Drilled Out: Cmtd. Csg:

Cement Co: SANJEL Cementer: DALE DILLABAUGH Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: STAGE #1	Start Mix Cmt: 22:35	Disp Avg Rate: 1.00 (m³/min)	Returns: 8.5m3
Volume Excess %: 30.00	Start Slurry Displ: 00:05	Disp Max Rate: 1.00 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: 8.50 (m³)
Time Circ Prior	End Pumping: 00:15	Press Prior: 9,000 (kPa)	
To Cementing: 3.00	End Pump Date: 09/11/2004	Press Bumped: (kPa)	Ann Flow After: N
Mud Circ Rate: 1.20 (m³/min)	Top Plug: N	Press Held: 90 (min)	Mixing Method: HOPPER
Mud Circ Press: 1,500 (kPa)	Bottom Plug: N	Float Held: N	Density Meas By: SCALE

Mud Data

Type: GEL POLYMER Density: 1,130 (kg/m³) Visc: 50 (s PV/YP: 21.0 (mPa*s)/4.0 (Pa) Gels 10 sec: 1.0 (Pa) Gels 10 min: 3.0 (Pa)
 Bottom Hole Circulating Temperature: (°C) Bottom Hole Static Temperature: (°C)
 Displacement Fluid Type: FRESH WATER Density: 1,000 (kg/m³) Volume: 8.50 (m³)

Stage No: 1 Slurry No: 1 of 1

Slurry Data

Fluid Type: LEAD #1 Description: 0:1:0 Class: CLASS G Purpose: SURFACE CA
 Slurry Interval: (m) To: 921.0 (m) Cmt Vol: 85.0 (m³) Density: 1,901 (kg/m³) Yield: 0.76 (m³/t) Mix Water: 0.44 (m³/t)
 Water Source: RIVER Slurry Vol: 112.00 (tonne) Water Vol: 49.0 (m³) Other Vol: (m³) Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°C)	Compressive Strength 1: (°C)	(kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2: (°C)	(kPa)
Fluid Loss: (mL)	Temperature: (°C)		
Fluid Loss Pressure: (kPa)			



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 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Stage No: 1 Slurry No: 1 of 1 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
0.5	CFR		%		
0.4	LTR		%		
2	LCC		%		

Casing Test

Shoe Test

Liner Top Test

Test Press: (kPa) For: (min) Cement Found between Shoe and Collar:	Pressure: (kg/m ³) Tool: Open Hole: (m) Hrs Before Test:	Liner Lap: Pos Test: (kg/m ³) Neg Test: (kg/m ³) Hrs Before Test: Cement Found on Tool: Tool: Tool:
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Log/Survey Evaluation

Interpretation Summary

CBL Run: Under Pressure: (kPa) Bond Quality: Cet Run: Bond Quality: Temp Survey: Hrs Prior to Log:	Cement Top: (m) How Determined: TOC Sufficient: Job Rating: If Unsuccessful Detection Indicator: Remedial Cementing Required: Number of Remedial Squeezes:
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Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 2 Report Date: 09/27/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Cement Job Type: Plug

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size:	Hole Size:	Hole Size:	Hole Size: 311.0 (mm)
TMD Set: (m)	SQ TMD: (m)	TMD Set:	Top Set: 1,100.0 (m)
Date Set:	SQ Date:	Date Set:	BTM set: 1,300.0 (m)
Csg Type:	SQ Type:	Csg Type:	Plug Date: 09/27/2004
Csg Size:		SQ TMD:	Plug Type: KICK OFF
		SQ Date:	Drilled Out: N
Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg: OPEN HOLE

Cement Co: SANJEL Cementer: BOB ROSS Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: PLUG #1	Start Mix Cmt: 02:57	Disp Avg Rate: 0.70 (m³/min)	Returns:
Volume Excess %: 20.00	Start Slurry Displ: 04:03	Disp Max Rate: 0.70 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: (m³)
Time Circ Prior	End Pumping: 04:22	Press Prior: (kPa)	
To Cementing: 2.50	End Pump Date: 09/27/2004	Press Bumped: (kPa)	Ann Flow After:
Mud Circ Rate: 2.50 (m³/min)	Top Plug: N	Press Held: (min)	Mixing Method:
Mud Circ Press: 3,500 (kPa)	Bottom Plug: N	Float Held:	Density Meas By: SCALE

Mud Data

Type: INVERT-CAL.CHL Density: 1,300 (kg/m³) Visc: 51 PV/YP: 15.0 (mPa*s)/5.0 (Pa) Gels 10 sec: 9.5 (Pa) Gels 10 min: 15.0 (Pa)
 Bottom Hole Circulating Temperature: 30 (°C) Bottom Hole Static Temperature: 35 (°C)
 Displacement Fluid Type: MUD Density: 1,300 (kg/m³) Volume: 9.00 (m³)

Stage No: 1 Slurry No: 1 of 1

Slurry Data

Fluid Type: PLUG	Description: 0:1:0	Class: CLASS G	Purpose: WHIPSTOCK
Slurry Interval: 1,100.0 (m) To: 1,300.0 (m)	Cmt Vol: 12.6 (m³)	Density: 2,100 (kg/m³)	Yield: 0.76 (m³/t)
Water Source: RIVER	Slurry Vol: 20.00 (tonne)	Water Vol: 8.8 (m³)	Other Vol: 8.6 (m³)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°C)	Compressive Strength 1: (°C)	(kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2: (°C)	(kPa)
Fluid Loss: (mL)	Temperature: (°C)		
Fluid Loss Pressure: (kPa)			



Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 2 Report Date: 09/27/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Stage No: 1 Slurry No: 1 of 1 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
RETARDER	LTR	0.40	%		
FRICITION REDUCER	CFR	1.00	%		

Casing Test

Shoe Test

Liner Top Test

Test Press: (kPa)	Pressure: (kg/m ³)	Liner Lap:	
For: (min)	Tool:	Pos Test: (kg/m ³)	Tool:
Cement Found between	Open Hole: (m)	Neg Test: (kg/m ³)	Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:	
		Cement Found on Tool:	

Log/Survey Evaluation

Interpretation Summary

CBL Run:	Cement Top: (m)
Under Pressure: (kPa)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes:



Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 3 Report Date: 09/29/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Cement Job Type: Plug

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size:	Hole Size:	Hole Size:	Hole Size: 311.0 (mm)
TMD Set: (m)	SQ TMD: (m)	TMD Set:	Top Set: (m)
Date Set:	SQ Date:	Date Set:	BTM set: (m)
Csg Type:	SQ Type:	Csg Type:	Plug Date:
Csg Size:		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg: OPEN HOLE

Cement Co: Cementer: Pipe Movement:

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: PLUG #2	Start Mix Cmt: 11:51	Disp Avg Rate: 1.60 (m³/min)	Returns:
Volume Excess %: 15.00	Start Slurry Displ: 00:08	Disp Max Rate: 1.60 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: (m³)
Time Circ Prior	End Pumping: 00:20	Press Prior: (kPa)	
To Cementing: 6.25	End Pump Date: 09/30/2004	Press Bumped: (kPa)	Ann Flow After:
Mud Circ Rate: 1.00 (m³/min)	Top Plug: N	Press Held: (min)	Mixing Method:
Mud Circ Press: 3,500 (kPa)	Bottom Plug: N	Float Held:	Density Meas By: scale

Mud Data

Type: INVERT-CAL.CHL Density: 1,300 (kg/m³) Visc: 57 PV/YP: 16.0 (mPa*s)/10.0 (Pa) Gels 10 sec: 14.0 (Pa) Gels 10 min: 30.0 (Pa)
 Bottom Hole Circulating Temperature: 25 (°C) Bottom Hole Static Temperature: 30 (°C)
 Displacement Fluid Type: MUD Density: 1,300 (kg/m³) Volume: 8.20 (m³)

Stage No: 1 Slurry No: 1 of 1

Slurry Data
 Fluid Type: PLUG Description: 0:1:0 Class: CLASS G Purpose: WHIPSTOCK
 Slurry Interval: 1,050.0 (m) To: 1,220.0 (m) Cmt Vol: 14.8 (m³) Density: 2,100 (kg/m³) Yield: 0.62 (m³/t) Mix Water: 0.30 (m³/t)
 Water Source: RIVER Slurry Vol: 24.00 (tonne) Water Vol: 4.4 (m³) Other Vol: 8.2 (m³) Foam Job: N

Test Data

	Temperature: (°C)	Time	Temp	Pressure
Thickening Time:		Compressive Strength 1:	(°C)	(kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2:	(°C)	(kPa)
Fluid Loss: (mL)	Temperature: (°C)			
Fluid Loss Pressure: (kPa)				



Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 3 Report Date: 09/29/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Stage No: 1 Slurry No: 1 of 1 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
FRICION REDUCER	CFR	1.00	%		
ACCELERATOR	KCL	3.00	%		
RETARDERS	LTR	0.10	%		

Casing Test

Shoe Test

Liner Top Test

Test Press: (kPa)	Pressure: (kg/m ³)	Liner Lap:	
For: (min)	Tool:	Pos Test: (kg/m ³)	Tool:
Cement Found between	Open Hole: (m)	Neg Test: (kg/m ³)	Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:	
		Cement Found on Tool:	

Log/Survey Evaluation

Interpretation Summary

CBL Run:	Cement Top: (m)
Under Pressure: (kPa)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes:

Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 4 Report Date: 11/27/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 311.0 (mm)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 3,312.0 (m)	SQ TMD: (m)	TMD Set:	Top Set: (m)
Date Set: 11/29/2004	SQ Date:	Date Set:	BTM set: (m)
Csg Type: INTERMEDIATE CASI	SQ Type:	Csg Type:	Plug Date:
Csg Size: 244.5 (mm)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmtd. Csg: INTERMEDIATE CASI	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:

Cement Co: SANJEL Cementer: ROBERT BAKER Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: STAGE #1	Start Mix Cmt: 03:00	Disp Avg Rate: 1.00 (m³/min)	Returns: 5m3 CEMENT
Volume Excess %: 30.00	Start Slurry Displ: 05:14	Disp Max Rate: 1.30 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: 5.00 (m³)
Time Circ Prior	End Pumping: 08:35	Press Prior: 12,000 (kPa)	
To Cementing: 12.00	End Pump Date: 11/27/2004	Press Bumped: (kPa)	Ann Flow After: Y
Mud Circ Rate: 1.20 (m³/min)	Top Plug: N	Press Held: 360 (min)	Mixing Method: JET
Mud Circ Press: 3,000 (kPa)	Bottom Plug: N	Float Held: N	Density Meas By: SCALE

Mud Data

Type: INVERT-CAL.CHL Density: 1,430 (kg/m³) Visc: 11 PV/YP: 33.0 (mPa*s)/13.0 (Pa) Gels 10 sec: 15.0 (Pa) Gels 10 min: 34.0 (Pa)
 Bottom Hole Circulating Temperature: 102 (°C) Bottom Hole Static Temperature: 117 (°C)
 Displacement Fluid Type: MUD Density: 1,400 (kg/m³) Volume: 121.60 (m³)

Stage No: 1 Slurry No: 1 of 2

Slurry Data

Fluid Type: LEAD #1 Description: THIXOTROPIC Class: CLASS G Purpose: INTERMEDIA
 Slurry Interval: (m) To: 2,000.0 (m) Cmt Vol: 59.2 (m³) Density: 1,500 (kg/m³) Yield: 1.20 (m³/t) Mix Water: 0.81 (m³/t)
 Water Source: LABICHE RIVER Slurry Vol: 49.40 (tonne) Water Vol: 40.0 (m³) Other Vol: (m³) Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°C)	Compressive Strength 1:	(°C) (kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2:	(°C) (kPa)
Fluid Loss: (mL)	Temperature: (°C)		
Fluid Loss Pressure: (kPa)			

Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 4 Report Date: 11/27/2004
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Stage No: 1 Slurry No: 1 of 2 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
FLUID LOSS AGENT	CFL-3	0.50	%		
RETARDERS	LTR	0.55	%		
	LCC-1	3.00	%		

Stage No: 1 Slurry No: 2 of 2

Slurry Data

Fluid Type: TAIL Description: THERMAL 40 Class: CLASS G Purpose: INTERMEDIA
 Slurry Interval: 2,000.0 (m) To: 3,312.0 (m) Cmt Vol: 57.0 (m³) Density: 1,885 (kg/m³) Yield: 0.75 (m³/t) Mix Water: 0.41 (m³/t)
 Water Source: LABICHE RIVER Slurry Vol: 76.00 (tonne) Water Vol: 23.3 (m³) Other Vol: (m³) Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°C)	Compressive Strength 1:	(°C) (kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2:	(°C) (kPa)
Fluid Loss: (mL)	Temperature: (°C)		
Fluid Loss Pressure: (kPa)			

Stage No: 1 Slurry No: 2 of 2 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
FLUID LOSS AGENT	CFL-4	0.90	%		
FRICITION REDUCER	CFR-2	1.00	%		
	LCC-1	3.00	%		
PRESSURE MAINTENANCE	SPC-11	0.20	%		
RETARTER	LTR	0.20	%		

Casing Test

Shoe Test

Liner Top Test

Test Press: (kPa)	Pressure: (kg/m ³)	Liner Lap:
For: (min)	Tool:	Pos Test: (kg/m ³) Tool:
Cement Found between	Open Hole: (m)	Neg Test: (kg/m ³) Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:
		Cement Found on Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run:	Cement Top: (m)
Under Pressure: (kPa)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes:

Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 5 Report Date: 01/18/2005
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Cement Job Type: Plug

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size:	Hole Size:	Hole Size:	Hole Size: 216.0 (mm)
TMD Set: (m)	SQ TMD: (m)	TMD Set:	Top Set: 4,025.0 (m)
Date Set:	SQ Date:	Date Set:	BTM set: 4,175.0 (m)
Csg Type:	SQ Type:	Csg Type:	Plug Date: 01/15/2005
Csg Size:		SQ TMD:	Plug Type: ABANDONMENT
		SQ Date:	Drilled Out: N
Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg: OPEN HOLE

Cement Co: SANJEL Cementer: ROB BAKER Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: PLUG #1	Start Mix Cmt: 18:30	Disp Avg Rate: 1.00 (m³/min)	Returns:
Volume Excess %: 20.00	Start Slurry Displ: 21:05	Disp Max Rate: 1.00 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: (m³)
Time Circ Prior	End Pumping: 21:36	Press Prior: (kPa)	Ann Flow After:
To Cementing: 20.00	End Pump Date: 01/15/2005	Press Bumped: (kPa)	Mixing Method: BATCH
Mud Circ Rate: 1.20 (m³/min)	Top Plug: N	Press Held: (min)	Density Meas By: SCALE
Mud Circ Press: 5,300 (kPa)	Bottom Plug: N	Float Held:	

Mud Data

Type: INVERT-CAL NITR Density: 1,290 (kg/m³) Visc: 8 PV/YP: 27.0 (mPa*s)/9.0 (Pa) Gels 10 sec: 11.0 (Pa) Gels 10 min: 29.5 (Pa)
 Bottom Hole Circulating Temperature: 120 (°C) Bottom Hole Static Temperature: 130 (°C)
 Displacement Fluid Type: MUD Density: 1,310 (kg/m³) Volume: 33.20 (m³)

Stage No: 1 Slurry No: 1 of 1

Slurry Data

Fluid Type: PLUG Description: THERMAL 40 Class: CLASS G Purpose: ABANDONME
 Slurry Interval: 4,025.0 (m) To: 4,175.0 (m) Cmt Vol: 6.6 (m³) Density: 1,885 (kg/m³) Yield: 0.75 (m³/t) Mix Water: 0.41 (m³/t)
 Water Source: LABICHE RIVER Slurry Vol: 8.80 (tonne) Water Vol: 3.6 (m³) Other Vol: (m³) Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time: 6.42	Temperature: (°C)	Compressive Strength 1: 3.00	120 (°C) (kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2:	(°C) (kPa)
Fluid Loss: (mL)	Temperature: (°C)		
Fluid Loss Pressure: (kPa)			

Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 5 Report Date: 01/18/2005
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Stage No: 1 Slurry No: 1 of 1 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CFR	FRICTION REDU	0.50	%		
HTR	RETARDERS	0.40	%		

Casing Test

Shoe Test

Liner Top Test

Test Press: (kPa)	Pressure: (kg/m ²)	Liner Lap:	
For: (min)	Tool:	Pos Test: (kg/m ²)	Tool:
Cement Found between	Open Hole: (m)	Neg Test: (kg/m ²)	Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:	
		Cement Found on Tool:	

Log/Survey Evaluation

Interpretation Summary

CBL Run:	Cement Top: (m)
Under Pressure: (kPa)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes:

Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 6 Report Date: 01/18/2005
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Cement Job Type: Plug

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size:	Hole Size:	Hole Size:	Hole Size: 216.0 (mm)
TMD Set: (m)	SQ TMD: (m)	TMD Set:	Top Set: 3,264.0 (m)
Date Set:	SQ Date:	Date Set:	BTM set: 3,464.0 (m)
Csg Type: BOTTOMHOLE PUM	SQ Type:	Csg Type:	Plug Date: 01/16/2005
Csg Size:		SQ TMD:	Plug Type: KICK OFF
		SQ Date:	Drilled Out: N
Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg: OPEN HOLE

Cement Co: SANJEL Cementer: ROB BAKER Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: PLUG #2	Start Mix Cmt: 03:24	Disp Avg Rate: 0.80 (m³/min)	Returns: NO
Volume Excess %: 20.00	Start Slurry Displ: 03:34	Disp Max Rate: 0.90 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: N	Cmt Vol to Surf: (m³)
Time Circ Prior	End Pumping: 04:03	Press Prior: (kPa)	
To Cementing: 2.75	End Pump Date: 01/16/2005	Press Bumped: (kPa)	Ann Flow After:
Mud Circ Rate: 1.20 (m³/min)	Top Plug: N	Press Held: (min)	Mixing Method: BATCH
Mud Circ Press: 5,300 (kPa)	Bottom Plug: N	Float Held:	Density Meas By: SCALE

Mud Data

Type: INVERT-CAL.CHL Density: 1,290 (kg/m³) Visc: 80 PV/YP: 27.0 (mPa*s)/9.0 (Pa) Gels 10 sec: 11.0 (Pa) Gels 10 min: 29.5 (Pa)
 Bottom Hole Circulating Temperature: 120 (°C) Bottom Hole Static Temperature: 130 (°C)
 Displacement Fluid Type: MUD Density: 1,310 (kg/m³) Volume: 23.40 (m³)

Stage No: 1 Slurry No: 1 of 1

Slurry Data

Fluid Type: PLUG	Description: 0:1:0	Class: CLASS G	Purpose: SIDETRACK
Slurry Interval: 3,264.0 (m) To: 3,464.0 (m)	Cmt Vol: 8.8 (m³)	Density: 2,100 (kg/m³)	Yield: 0.62 (m³/t)
Water Source: LABICHE RIVER	Slurry Vol: 14.20 (tonne)	Water Vol: 4.2 (m³)	Other Vol: (m³)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time: 5.00	Temperature: 120 (°C)	Compressive Strength 1: 31.00 (°C)	(kPa)
Free Water: (%)	Temperature: (°C)	Compressive Strength 2: 8.00 (°C)	(kPa)
Fluid Loss: (mL)	Temperature: (°C)		
Fluid Loss Pressure: (kPa)			

Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 6 Report Date: 01/18/2005
 Event Name: ORIG DRILLING Start: 07/13/2004 End:

Stage No: 1 Slurry No: 1 of 1 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CFR	FRICITION REDU	1.00	%		
HTR	RETARDER	0.45	%		
KCI	ACCELERATOR	3.00	%		

Casing Test	Shoe Test	Liner Top Test
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Test Press: (kPa) For: (min) Cement Found between Shoe and Collar:	Pressure: (kg/m ³) Tool: Open Hole: (m) Hrs Before Test:	Liner Lap: Pos Test: (kg/m ³) Neg Test: (kg/m ³) Hrs Before Test: Cement Found on Tool: Tool: Tool:
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Log/Survey Evaluation	Interpretation Summary
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CBL Run: Under Pressure: (kPa) Bond Quality: Cet Run: Bond Quality: Temp Survey: Hrs Prior to Log:	Cement Top: (m) How Determined: TOC Sufficient: Job Rating: If Unsuccessful Detection Indicator: Remedial Cementing Required: Number of Remedial Squeezes:
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Cementing Report

Legal Well Name: DEVON ET AL KOTANEELEE L-38 Spud Date: 08/22/2004
 Common Well Name: DEVON ET AL KOTANEELEE L-38 Report #: 7 Report Date: 02/13/2005
 Event Name: ORIG DRILLING Start: 07/13/2004 End: 03/10/2005

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 216.0 (mm)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 3,953.0 (m)	SQ TMD: (m)	TMD Set:	Top Set: (m)
Date Set: 02/13/2005	SQ Date:	Date Set:	BTM set: (m)
Csg Type: PRODUCTION LINER	SQ Type:	Csg Type:	Plug Date:
Csg Size: 177.8 (mm)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmtd. Csg: OPEN HOLE	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:

Cement Co: SANJEL Cementer: DALE DILLABAUGH Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: : Time End: : RPM: Init Torque: (N-m) Avg Torque: (N-m) Max Torque: (N-m)
 Rec Time Start: : Time End: : SPM: Stroke Length: (m) Drag Up: (daN) Drag Down: (daN)

Stage No: 1 of 1

Type: STAGE #1	Start Mix Cmt: 01:48	Disp Avg Rate: 1.00 (m³/min)	Returns:
Volume Excess %: 20.00	Start Slurry Displ: 02:07	Disp Max Rate: 1.00 (m³/min)	Total Mud Lost: (m³)
Meas. From: GAUGE	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: (m³)
Time Circ Prior	End Pumping: 03:20	Press Prior: 9,000 (kPa)	
To Cementing: 3.00	End Pump Date: 02/13/2005	Press Bumped: 12,000 (kPa)	Ann Flow After: Y
Mud Circ Rate: 1.00 (m³/min)	Top Plug: N	Press Held: 12,000 (min)	Mixing Method:
Mud Circ Press: 4,800 (kPa)	Bottom Plug: N	Float Held: Y	Density Meas By:

Mud Data

Type: INVERT-CAL.CHL Density: 1,315 (kg/m³) Visc: 10 PV/YP: 29.0 (mPa*s)/8.5 (Pa) Gels 10 sec: 12.0 (Pa) Gels 10 min: 34.0 (Pa)
 Bottom Hole Circulating Temperature: 130 (°C) Bottom Hole Static Temperature: 160 (°C)
 Displacement Fluid Type: MUD Density: 1,300 (kg/m³) Volume: 28.00 (m³)

Stage No: 1 Slurry No: 1 of 1

Slurry Data

Fluid Type: LEAD #1 Description: THERMAL 40 Class: CLASS G Purpose: LINER CASIN
 Slurry Interval: 3,000.0 (m) To: 3,959.0 (m) Cmt Vol: 16.5 (m³) Density: 1,885 (kg/m³) Yield: 0.75 (m³/t) Mix Water: 0.41 (m³/t)
 Water Source: LABICHE RIVER Slurry Vol: 22.00 (tonne) Water Vol: 7.0 (m³) Other Vol: (m³) Foam Job: N

Test Data

	Temperature: (°C)	Compressive Strength 1:	Temp (°C)	Pressure (kPa)
Thickening Time:				
Free Water: (%)	Temperature: (°C)	Compressive Strength 2:	(°C)	(kPa)
Fluid Loss: (mL)	Temperature: (°C)			
Fluid Loss Pressure: (kPa)				



Cementing Report

Legal Well Name:	DEVON ET AL KOTANEELEE L-38	Spud Date:	08/22/2004
Common Well Name:	DEVON ET AL KOTANEELEE L-38	Report #:	7
Event Name:	ORIG DRILLING	Start:	07/13/2004
		End:	03/10/2005

Casing Test

Shoe Test

Liner Top Test

Test Press: (kPa)
For: (min)
Cement Found between
Shoe and Collar:

Pressure: (kg/m³)
Tool:
Open Hole: (m)
Hrs Before Test:

Liner Lap:
Pos Test: (kg/m³)
Neg Test: (kg/m³)
Hrs Before Test:
Cement Found on Tool:
Tool:
Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run:
Under Pressure: (kPa)
Bond Quality:
Cet Run:
Bond Quality:
Temp Survey:
Hrs Prior to Log:

Cement Top: (m)
How Determined:
TOC Sufficient:
Job Rating:
If Unsuccessful Detection Indicator:
Remedial Cementing Required:
Number of Remedial Squeezes: