

Page 1 of 1

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Rig#:

Event:

ORIG COMPLETION

U.W.I.:

NA 6665730. 22N 437588. 26E Zone: 10 Sect: L Rig Name;

1117 AKITA DRILLING

58

Date: 2005/03/12

Bot, Hole Loc: Surface Loc.

WARREN MACPHAIL

8:00 AM Operation:

Mix lost circulation material pill

Office Supervisor: 24 Hour Summary:

Hoisted clean out assembly, ran in hole with open ended drill pipe

RPT#: 2 DAY#: 2

24 Hour Forecast: Cle	an out to PBTD						
Well Status CASED				Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount		Daily C	osts \$	CUM. Costs \$		
05290024	763,700		4	45,891	162,806		
KB Elev.: 810.65 (m) PB Depth: 3,673.0 (m)	Ground Elev.:	803.65 (m	) KB-	Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(m³) C	um;	0.00(m³)	Oil in Surfac	e Tanks:	(m³)
Daily H2O Hauled On:	110.¢	00 (m³) C	um:	207.00(m³)	H2O in Surfa	ace Tanks:	82,00 (m³)
Daily Other Hauled On:		(m³) C	um:	0.00(m³)	Other in Sur	face Tanks:	(m³)
Daily Oil Hauled Off:		(m³) C	um:	0.00(m³)	Oil Remainir	ig to Recover:	(m=)
Daily H2O Hauled Off:		(m³) C	um:	$0.00(m^3)$	H2O Remain	ning to Recover:	125.00 (m³)
Daily Other Hauled Off:		(m³) C	um:	0.00(m³)		ining to Recover:	115
Non Recoverable Annular Oi	<b>]</b> :	(m³) C	um:	0.00(m³)		•	
Non Recoverable Annular H2	2O:	(m³) C	um:	0.00(m²)	Gas Vented	Today:	(Km³)
Non Recoverable Annular Of	her:	(m³) C	um;	0.00(m³)	Gas Flared 7	Foday:	(Km²)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/11

00:01 - Continued to run in hole with casing scrapers, mills, liner top polisher tools, no hang up to 3910.0 mKB.

07:00 - Conducted a morning safety meeting with rig crew. Daily walkaround check O.K.

Made up top drive onto 127.0 mm drill pipe.

Started pumps and increased rate to 1.64 m/3/minute. With a total of 55.0 m/3 fresh water away, no indication of returns. Stopped pumps.

Worked clean out string as pumped water into annulus to flush past tools. Slight hang up as cleaned out approximately 80.0 m probable cement debris in 244.5 mm casing to the 177.8 mm liner top.

As worked string, indicated had cleaned up area.

With a total of 79.0 m3 water away, checked hole full. Reduced hole fill rate to 0.62 m3/minute as worked and rotated string.

No hang up in the 156.0 mm open hole section to 4052.0 mKB.

Tagged liner top with the Import Tool Liner Top Polisher assembly. Rotated at 10 rpm as continued to flush water down annulus. Cleaned and conditioned liner top and hanger x 10 minutes.

Rigged to and attempted to reverse circulate at initially 0.60 m3/minute. No pump pressure, no returns on drill pipe. Increased pump rate to 1.0 m3/minute. Trace only of fluid returns. Feeding to formation, stopped pump.

12:00 - Slipped and cut drill line.

13:30 - Hoisted and recovered Baker Tools mills, casing scrapers and magnet in good condition. No indication of wear on gauge mills or casing scrapers. Metal fines on magnet.

23:00 - Made up and ran in hole with a 156.0 mm modified clean out open core bit on 114.3 mm and 127.0 mm drill pipe for a clean out trip.

23:59 - Continued to run in hole with clean out string.

Total fluid in to well for the day = 115,0 m3

Supervisor/Phone: GEORGE GILES (780) 835 - 1570	Calling Card:
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1810 IV: 10: 7007 UIZIM



## **Devon Canada Corporation Daily Well Service Report**

Page 1 of 2

Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.: Bot. Hole Loc:

NA 6665730. 22N 437588. 26E Zone: 10 Sect: L

1117 Rig Name: AKITA DRILLING Rig#: 58

Date: 2005/03/13

**RPT#:** 3

DAY#: 3

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Build fluid volume in mud tanks, mix casing clean out materials

24 Hour Summary:

Mixed and pumped LCM pills. Cleaned out to TD, circulated to clean up.

24 Hour Forecast: Mix casing clean out sween materials, circulate to

	ASED				Start Date:	2005/03/10	Finish Date:	
AFE Number		AFE Amount		Da	ily Costs \$	CUM. Costs \$	3	
05290024		763,700			<del>6</del> 4,577	227,383	;	
	35 (m) G 3.0 (m)	Fround Elev.:	803.65	(m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:			(m <sub>3</sub> )	Cum	: 0.00(m³)	Oil in Surfac	e Tanks:	(m³)
Daily H2O Hauled O	n:	300.00	(m³)	Cum	: 507.00(m³)	H2O in Surf	ace Tanks:	74.00 (m²)
Daily Other Hauled (	On:	1	(LLJ <sub>2</sub> )	Cum	: 0.00(m³)	Other in Sur		(m <sup>3</sup> )
Daily Oil Hauled Off:			(m³)	Cum	0.00(m³)		ng to Recover:	(m²)
Daily H2O Hauled O	ff:		(m <sup>3</sup> )	Cum	: 0.00(m³)		ning to Recover:	433.00 (m²)
Daily Other Hauled (	Off;	;	(m³)	Cum	, ,		ining to Recover:	115
Non Recoverable An	nular Oil:		(m <sub>2</sub> )	Cum		= 4 <b>3.</b> 1 <b>10</b> 11101		110
Non Recoverable An	nular H2O	:	(U) <sub>3</sub> )	Cum:	• •	Gas Vented	Todav	(Km²)
Non Recoverable An	nular Othe	er:	(m²)	Cum:	, ,	Gas Flared 1	•	(Km³)

#### **OPERATIONS LAST 24 HOURS**

2005/03/12

00:01

Continued to run in hole with mule shoe type clean out bit on drill string.

Tagged fill in 156.0 mm open hole section at 4052.0 mKB.

Mixed and pumped a 2.0 m3 high viscosity lost circulation carbonate pill. Flushed to balance on bottom with 29.92 m3 fresh water.

Stopped pump. Drill pipe on weak vacuum.

Pulled up to 3908.0 mKB. Drill pipe pulled dry.

Started pump to fill hole at 0.60 m3/minute. With a total of 50.0 m3 water away, stand pipe pressure increased to a maximum of 1500 kPa. No returns. Appeared as feeding to formation. Stopped pump x 20 minutes.

Restarted pump and attempted to fill annulus. Pumped 38.0 m3 fresh water. No indication hole will fill.

Stopped pump,

09:30

Batch mixed a 5.0 m3 high viscosity, high concentration carbonate lost circulation pill into rig tank.

Ran to bottom with drill pipe, tagged fill in 156.0 mm hole at 4050.0 mKB. Pumped the 5.0 m3 lost circulation pill. Flushed to balance on bottom with 28.75 m3 fresh water.

Stopped pump, drill pipe on fair vacuum to rill. Hoisted drill pipe to 3644.0 mKB.

45 minutes after spotted lost circulation pill on bottom, started pump and attempted to fill annulus and squeeze lost circulation material into fractured intervals. Pumped 30.0 m3 fresh water. Monitored, fluid level dropped.

Ran in hole with drill pipe. Tagged fill in 156,0 mm hole at 4048,5 mKB (16.5 m fill on bottom).

Started pump down drill pipe at 1.6 m3/minute. Started pipe rotation, torqued up to 16,000 foot pounds (21,680 Nm), stopped rotation and pumps. Pulled up, indicated some overpull. (Close to becoming stuck in hole). Reattempted to circulate and rotate. Same torqing and no circulation.

Hoisted string into the 177.8 mm casing liner at 3644.0 mKB.

Restarted pumps at 1.6 m3/minute. Able to fill hole and establish circulation to rig tank.

Continued...,.

Supervisor/Phone: GEORGE GILES (780) 835 - 1570 Calling Card: Printed: 2005/03/14 5:55:14 AM



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.:

NA 6665730, 22N 437588, 26E Zone; 10 Sect. L

Rig Name: AKITA DRILLING Rig#: 58

1117

Date: 2005/03/13

RPT#: 3

DAY#: 3

Bot Hole Loc:

Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Build fluid volume in mud tanks, mix casing clean out materials

24 Hour Summary:

Mixed and pumped LCM pills. Cleaned out to TD, circulated to clean up.

24 Hour Forecast:

Mix casing clean out sweep materials, circulate to clean up

## **OPERATIONS LAST 24 HOURS**

Continued to circulate and rotate as washed through the lost circulation material to bottom at 4065.0 mKB.

Worked string and noted no overpull. Lost fluid at approximately 0.17 to 0.25 m3/minute to formation.

Returned dirty water with foamed oil base drilling mud show. As continued, fluid returns started to decline,

Pumped a 5.0 m3 high viscosity fluid pill. Displaced to and balanced on bottom to fill the 156.0 mm open hole section from 4065.0 to 3953.0 mKB.

23:00

Hoisted drill pipe into the 177.8 mm liner. With bit at 3937.55 mKB, restarted pump and established full circulation to rig tank and over shale shakers. Able to circulate debris cleaned off bottom to surface.

Returned dirty water and excess high viscosity water pill containing appeared as lost circulation carbonate pill materials.

23:59

Continued to circulate and clean up hole,

Total load fluid into well for the day = 308.6 m3

Cumulative load water and pill materials into well to date (Completion operations) = 423.8 m3

NOTE: Regarding mobilizing equipment onto location and rack sites for completion and stimulation operations:

DC Energy spotted and rigged up a berm / container system for 63.6 m3 acid and fluid storage tanks.

Spotted 3 sloped, lined acid rated tanks plus 2 sloped lined tanks for methanol / water mix,

Light tower spotted to Illuminate area. Good set up.

BJ Services transported and loaded acid and methanol / water mix into tanks.

Storage facility is secure.

N2 storage tank at location along with N2 tankers. Fluid pumpers and coiled tubing unit moved onto rack site.

Opsco flowback supervisor at location. Moved test equipment to and spotted at B-38 location.

Excess equipment spotted at rack site to side of rig camp.

All rack sites and location mainly full and congested.

Good potential for difficulty moving equipment into position as frost goes out of ground.

Utilizing matting to spot equipment for temporary storage.

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:

Printed: 2005/03/14 6;56;14 AM



Page 1 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.: Bot. Hole Loc: NA 6665730. 22N 437588. 26E Zone: 10 Sect: L

Rig Name: **AKITA DRILLING** Rig#: 58

Date: 2005/03/14

RPT#: 4

DAY#: 4

Surface Loc.

WARREN MACPHAIL

Office Supervisor; 8:00 AM Operation:

24 Hour Summary:

Rlg Schlumberger to conduct a gauge ring run

24 Hour Forecast:

Circulated viscous fluid sweeps to clean up casing string

Well Status	CASED		_		Start Date:	2005/03/10	Finish Date:	
AFE Num		AFE Amount		Da	ily Costs \$	CUM. Costs \$		
05290	024	763,700			102,292	329,675	i	
KB Elev.: PB Depth:	810.65 (m) 3,673.0 (m)	Ground Elev.:	803.6	5 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hau			(m³)	Cum	: 0.00(m³)	Oil in Surfac	e Tanks:	(m³)
Daily H2O Ha			(m³)	Cum	: 507.00(m³)	H2O in Surf.		74.00 (m³)
Daily Other H	auled On:	30.80	) (m²)	Cum	: 30,80(m³)	Other in Sur		(m <sub>2</sub> )
Daily Oil Hau	led Off:	!	$(m^3)$	Cum	0.00(m³)		ng to Recover:	(m³)
Daily H2O Ha	uled Off:	1	(m³)	Cum	` ,		ning to Recover:	433.00 (m²)
Daily Other H	auled Off:	i 1	(m <sub>3</sub> )	Cum:	, r		ining to Recover:	433.00 (m <sup>-</sup> )
Non Recover	able Annular Oi	l:	(m³)	Cum:	• • • • • • • • • • • • • • • • • • • •		ming to Lescover,	110
Non Recover	able Annular H2	?O:	(m³)	Cum:	, ,	Gas Vented	Today:	/K-m\$\
Non Recover	able Annular Ot	her:	(ma)	Cum;	` •	Gas Flared 1	•	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/13

00:01

Continued to circulate hole for clean up x 1;00 hour. Appeared as the gelled fluid pill placed into the open

156.0 mm hole section broke.

Lost circulation. Stopped pump. Monitored well as hauled additional water and built volume in rig tanks.

Conducted a morning safety and operations meeting with rig crew and mud man,

Mixed a 5.0 m3 high viscosity fluid pill into rig tank,

Ran in hole with drill pipe string to 4065.0 mKB, no fill on bottom.

Started and pumped 5.0 m3 high viscosity fluid pill. Flushed to balance and spot into the open 156.0 mm hole section from 4065.0 to 3933.0 mKB with 28.7 m3 fresh water.

Pulled up to place drill pipe string into the 177.8 mm casing liner at 3933.0 mKB.

Monitored casing x 30 minutes.

Started pumps and established circulation to rig tank. Pumped high viscosity fluid/detergent/diesel fuel casing clean out sweep materials (Total of 25.2 m3).

Flushed drill pipe and circulated sweep materials to clean up 177.8 mm and 244.5 mm casing strings.

Pump rate at 1.0 to 2.0 m3/minute. Fair to good slightly dirty water, gelled fluid, traces of diesel fuel returns to shale shaker.

Monitored returns and no indication of carbonate or drilled fines. Gelled polymer particles over shaker screens.

With majority of fluid clean out sweep material returned, began to lose circulation.

Stopped pumps to rebuild volume in mud tanks.

14:30

Hauled water to location to regain volume in mud tanks and continue casing circulation and clean up.

23:15

With a total of 174.0 m3 clean, filtered fresh water on location, started pumps to continue circulation and recovery of spacer casing flush

Increased pump rate to 1.90 m3/minute. With a total of 71,4 m3 fresh water away, hole full and returns to surface. Checked shale Continued.....

Supervisor/Phone:

**GEORGE GILES** 

(780) 835 - 1570

Calling Card:



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.: Bot. Hole Loc:

NA 6665730. 22N 437588. 26E Zone: 10 Sect: L Rig Name:

Rig Name: AKITA DRILLING Rig#: 58

1117

Date: 2005/03/14

RPT#: 4

DAY#: 4

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation: Rig :

Rig Schlumberger to conduct a gauge ring run

24 Hour Summary:

Circulated viscous fluid sweeps to clean up casing string

24 Hour Forecast: Gauge ring run, run permanent packer

## **OPERATIONS LAST 24 HOURS**

shaker screen. Noted clean gelled fluid, trace diesel fuel, trace only of appeared as drilled and carbonate pill fines, cleaning up. Lost approximately 40 to 50% of fluid pumped.

Reduced pump rate to 1.60 m3/minute.

24:00

Continued to circulate and flush 177.8 mm and 244.5 mm casing strings to clean fresh water.

Total fluid into well for the day = 263.0 m3

Cumulative fluid into well to date (Completion operations) = 687.0 m3

Supervisor/Phone:

GEORGE GILES

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Calling Card:

Printed: 2005/03/14 10:49:16 AM



Page 1 of 2

Well Name: DEVON ET AL KOTANEELEE L-38

IA CORETTO ACN ADTROCTOR DATE

License#: 1117

Event: ORIG COMPLETION

DAY#: 5

Bot Hole Loc:

U.W.J.:

NA 6665730. 22N 437588. 26E Zone: 10 Sect; L

Rig Name: AKITA DRILLING Rig#: 58 Date: 2005/03/15 RPT#: 5

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation: Prepa

Prepare to run overshot to recover retrievable bridge plug.

24 Hour Summary:

Circulated, gauge ring run, ran and set wireline packer. Pressure tested O.K. Installed tubing head

24 Hour Forecast: Pull bridge plug, run production packer assembly

Well Status CASED				Start Date:	2005/03/10	Finish Date:	
AFE Number 05290024	AFE Amount 763,700			ly Costs \$ 427,527	CUM. Costs \$ 757,202		
KB Elev.: 810.65 (m) PB Depth: 3,673.0 (m)	Ground Elev.:	803.65	ō (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(m³)	Cum	: 0.00(m²)	Oil in Surfac	e Tanks:	(m <sub>a</sub> )
Daily H2O Hauled On:	;	$(m^3)$	Cum;	507.00(m <sup>3</sup> )	H2O in Surfa	ice Tanks:	30.50 (m²)
Daily Other Hauled On:		$(m_2)$	Cum:	30.80(m³)	Other in Surf		(m³)
Daily Oil Hauled Off:		(m³)	Cum:	0.00(m <sup>a</sup> )		g to Recover:	(m³)
Daily H2O Hauled Off:		(m³)	Cum:	• •		ing to Recover:	476.50 (m³)
Daily Other Hauled Off;	1	(m³)	Cum:			ning to Recover:	115
Non Recoverable Annular Oi	il:	(m³)	Cum:	· · ·		mig it mooten.	115
Non Recoverable Annular H	20:	(m³)	Cum:	• •	Gas Vented	Today:	(Km3)
Non Recoverable Annular Of	ther:	(m³)	Cum;	` '	Gas Flared T	-	(Km³)

#### **OPERATIONS LAST 24 HOURS**

2005/03/14

00:01

Continued to circulate with fresh water to recover viscous fluid casing flush sweep materials.

Returned all fluid spacer clean out fluids. Returns to shale shaker and mud tanks cleaned up to clear fresh water. No carbonate or drilled fines. No gas show. Stopped pumps. Pumped a total of 168.0 m3 fresh water.

Monitored well on vacuum, dead.

01:00

Hoisted 127.0 mm and 114.3 mm drill pipe. Recovered the 156.0 mm o.d. clean out bit.

06:30

Removed b.o.p. flow nipple assembly.

07:30

Issued a Safe Work Permit # 349555 to Schlumberger.

Conducted and signed a prejob safety and operations meeting with rig and wireline crew.

Installed wireline b.o.p. and lubricator assembly. Pressure tested same at 7.0 MPa, O.K.

Picked up and ran in hole with a 152.4 mm o.d. gauge ring / junk basket assembly complete with GR-CCL tools. Correlated on depth to the Schlumberger GR-CCL-CBL Log dated 2005/03/07.

No hang up to 3926.0 mKB. Pulled out of hole.

Picked up and ran in hole with a Baker 177.8 mm 8540 Model F-1 Retainer Production Packer with a Model "B" expendable plug in place on a Baker 20 setting device complete with IGR-CCL tools.

Correlated on depth to the above log. No hang up into the 177.8 mm liner top at 3105.58 mKB.

Set the packer at 3920.0 mKB to centre element at 13:18 hours 2005/03/14.

Good indication of tool firing and separation. Pulled out of hole, recovered setting tools.

Laid down Schlumberger lubricator assembly.

14:00

Filled hole with a total of 26.0 m3 clean, filtered fresh water. Monitored as air separated out of fluid column.

BJ Services rigged to pressure test casing strings. Conducted a prejob tallgate safety meeting with all personnel.

Continued and pressure tested the 244.5 mm, 177.8 mm casing strings and production packer set at 3920.0 mKB at 25.0 MPa x 22

Continued

Supervisor/Phone: GEORGE GILES

(780) 835 - 1570

Calling Card:



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.:

NA 6665730, 22N 437588, 26E Zone; 10 Sect. L.

Rig Name: AKITA DRILLING

1117

Date: 2005/03/15

RPT#: 5

DAY#: 5

Bot Hole Loc: Surface Loc.

**5**,

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Prepare to run overshot to recover retrievable bridge plug.

24 Hour Summary:

Circulated, gauge ring run, ran and set wireline packer. Pressure tested O.K. Installed tubing head

Rig#;

24 Hour Forecast:

Pull bridge plug, run production packer assembly

## **OPERATIONS LAST 24 HOURS**

minutes, O.K., no leak off. (Electronic chart presented)

Released pressure.

17:30

Made up, tailied, picked up and ran in hole with a Packers Plus retrievable bridge plug assembly on 114.3 mm drill pipe. Spaced out, landed and set the bridge plug at 300.0 mKB. Pressure tested same at 7.0 MPa x 10 minutes as O.K. Pulled out of hole with overshot.

Rigged out b.o.p. assembly. Removed changeover spool. Prepared to install tubing head assembly.

24:00

Continued with operations to install tubing head assembly.

Load fluid into well for the day = 43,50 m3

Cumulative load fresh water into well (completion operations) = 730.5 m3

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:

Princed: 2005/03/17 8:01:24 AM



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Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.: Bot. Hole Loc:

NA 6665730, 22N 437588, 26E Zone: 10 Sect. L

Rig Name: AKITA DRILLING Rig#: 58

Date: 2005/03/16

RPT#: 6

DAY#; 6

Surface Loc

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Hoist and lay down drill pipe string onto pipe racks

24 Hour Summary:

Installed tubing head, changeover spool, b.o.p., pressure tested, ran production packer

24 Hour Forecast Complete laying down string, rig to run 114.3 mm tubing

Well Status CASED				Start Date:	2005/03/10	Finish Date:	
	E Amount		Daily	Costs \$	CUM. Costs \$		
05290024	763,700			260,611	1,017,813	}	
KB Elev.: 810.65 (m) Grou PB Depth: 3,673.0 (m)	ind Elev.:	803.65 (r	א (מ	(B-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(m³)	Cum:	0.00(m³)	Oil in Surfac	e Tanks:	(m³)
Daily H2O Hauled On:	-	(m²)	Cum:	507.00(m³)	H2O in Surf	ace Tanks:	30,50 (m <sup>3</sup> )
Daily Other Hauled On:	1	(m²) (	Cum:	30.80(m³)	Other in Sur	face Tanks:	(m³)
Daily Oil Hauled Off.		(m³) (	Cum:	0.00(m³)	Oil Remainir	ng to Recover:	(m²)
Daily H2O Hauled Off:		(m <sup>s</sup> ) (	Cum:	0.00(m³)		ning to Recover:	476.50 (m²)
Daily Other Hauled Off:	i i	(m³) (	Dum:	0-00(m³)		ining to Recover:	115
Non Recoverable Annular Oil:		(m³) (	Cum:	0.00(m³)	7 10/112		110
Non Recoverable Annular H2O:	. (	(m³) (	Cum:	0.00(m³)	Gas Vented	Today:	(Km³)
Non Recoverable Annular Other:		: :	Cum;	0.00(m³)	Gas Flared 7	•	(Km²)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/15

00:01

Safety meeting with rig and Vetco Gray crews. Issued a Hot Work Permit # 349556 to Vetco Gray crew.

LEL meter check showed no hydrocarbons present.

Removed surface casing valves. Installed a vent assembly in open position.

Checked the 244.5 mm casing stub with a fair amount of wear at top (Approximately 30%), decreasing to minimal of approximately a scuff to maximum 10% near bottom.

Cut and trimmed casing stub. Primary seals in good condition.

Installed a Vetco Gray Model CWCT-CWC 346.0 mm x 279.4 mm x 35.0 MPa, PSL-3 Tubing Head assembly complete with 2 - 52.4 flanged outlets s/n 35053-01. 2 - Vetco Gray 52.4 mm x 35.0 MPs, Model VGC, PSL-2 flanged annular gate valves installed. s/n

Pressure tested primary and secondary seals at 3.5 and 21.0 MPa x 15 minutes as O.K.

Installed a Weatherford rentals 279.4 mm x 346.0 mm x 35.0 MPa adaptor spool onto tubing head. Reinstalled Class V b.o.p. assembly onto adaptor spool.

BJ Services rigged to and pressure tested tubing head, adaptor spool and b.o.p. assembly connections at 1.4 and 25.0 MPa x 10 minutes as O.K. Rigged out BJ Services pumper.

Conducted a morning safety meeting with rig and tools crews. Daily walkaround check O.K.

Picked up and ran in hole with the bridge plug overshot on 114.3 mm drill pipe. Tagged, latched, unset, pulled and recovered the bridge plug set at 300.0 mKB in good condition.

Prepared to run the production packer assembly. Conducted a prejob tailgate safety meeting with rig and tool crews.

Tallied, picked up, made up and ran in hole with a Packers Plus production packer assembly as follows, from bottom up:

- 1 177.8 mm x 114.3 mm Packers Plus wireline re-entry gulde x 0.20 m
- 1 114.3 mm, 17.26 kg/m, LTC, 8 round, R-110 tubing pup joint x 2.65 m
- 1 177.8 mm x 114.3 mm Swivel Fluted Centralizer (L-80 material complete with 147.63 mm o.d. x 0.30 m
- 1 114.3 mm, 17.26 kg/m, LT&C, 8 round, P-110 tubing pup joint x 1.40 m

Continued.....

			·	
Carrier - Diagram	GEORGE GILES	(PAA) DDE 4570	V-7	
Supervisor/Phone:	GEORGE GILES 1	(780) 835 - 1570		Calling Card:
- 11/4 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 M 4 1 10 D 4 1 L L L	(100)		Gamiy Card.
				•

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DEVON ET AL KOTANEELEE L-38

License#: 1117

Event:

ORIG COMPLETION

U.W.1.: Bot Hole Loc: NA 6665730. 22N 437588. 26E Zone: 10 Sect: L

Rig Name: **AKITA DRILLING** 

Date: 2005/03/16

Rig#:

RPT#: 6

DAY#: 6

Surface Loc. Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation: Hoist and lay down drill pipe string onto pipe racks

24 Hour Summary: 24 Hour Forecast:

Installed tubing head, changeover spool, b.o.p., pressure tested, ran production packer

Complete laying down string, rig to run 114.3 mm tubing

## **OPERATIONS LAST 24 HOURS**

- 1 114.3 mm Halliburton profile nipple (93.68 mm "R") Incoloy 925 or equivalent x 0.41 m
- 1 114.3 mm, 20.09 kg/m, Varn Top Incoloy 925 or equivalent tubing pup joint × 6.13 m
- 1 177.8 mm, Packers Plus Permanent-Plus ELB Seal Bore Packer, Incoloy 925 or equivalent x 0.82 m
- 1 144.0 mm o.d. hydraulic setting tool (31.75 mm ball seat)  $\times$  2.10 m
- 1 89.0 mm IF box x 89.0 mm EUE pin crossover  $\times$  0.23 m
- 1 89.0 mm IF drill pipe pup joint x 1.50 m

Bottom hole assembly overall tallied length = 15.74 m

Ran in hole with assembly on 409 joints drill pipe x 3921.23 m.

Dropped ball to seat into hydraulic packer setting tool. With ball on bottom, started pump down drill pipe to seat ball and activate the hydraulic setting tool.

Increased pump pressure to 15.0 MPa, tool activated and set packer. Worked drill pipe string to packoff same.

Pulled to 18,000 daN x 2 times. Landed 18,000 daN compression onto packer.

BJ Services rigged to pressure test annulus and packer. Pulled 20,000 daN into string.

Started pump, pressured drill pipe string to 15.0 MPa.

24:00

Continue with operations to pressure test packer.

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:

Printed: 2005/03/17 8;01:28 AM



Page 1 of 2

Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.L.:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L

Rig Name: AKITA DRILLING

1117

Date: 2005/03/17

Bot. Hole Loc:

14A 0003/30. 2211 40/300. 20E 2016.

Rig#: 58

RPT#: 7 DAY#: 7

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation: Run

Run in hole with 114.3 mm production tubing string

24 Hour Summary: Pressure tested packer O.K. Hoisted and laid down drill pipe

exact: Run 114 3 mm tubing production string

Well Status CASED				Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount		Dai	ily Costs \$	CUM. Costs !		
05290024	763,700			90,056	1,107,869		
KB Elev.; 810.65 (m) PB Depth: 3,673.0 (m)	Ground Elev.:	803.68	5 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(m²)	Cum	; (m³)	Oil in Surfa	ce Tanks:	(m³)
Daily H2O Hauled On:	1	$(m^3)$	Cum	: (m³)	H2O in Surl	ace Tanks:	30.50 (m³)
Daily Other Hauled On:		$(m^3)$	Cum	: (m³)	Other in Su	rface Tanks:	(m <sub>a</sub> )
Daily Oil Hauled Off:	i	(m³)	Cum	: (m³)	Oil Remaini	ng to Recover:	(m <sub>2</sub> )
Daily H2O Hauled Off:		(m³)	Cum	: (m³)	H2O Remai	ining to Recover:	(m³)
Daily Other Hauled Off:	1	(m³)	Cum	: (m³)	Other Rema	ining to Recover:	
Non Recoverable Annular (	Oil:	(m²)	Cum	: (m²)			
Non Recoverable Annular I	120:	$(m^3)$	Cum	: (m²)	Gas Vented	Today:	(Km³)
Non Recoverable Annular (	Other:	(ma)	Cum	: (m³)	Gas Flared	Today:	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/16

00:01

Continued with operations to pressure test production packer.

Started pump, pressured annulus to 2.0 MPa, noted returns on rig standpipe. Stopped pump, communication past packer. Packer appeared to be not set.

With advice from Packer Plus technician regarding setting packer in deviated casing string, pulled 20,000 daN

tension into packer. Pressured drill pipe to 14,500 kPa. Monitored x 1:00 hour to pack off seals.

Released drill pipe pressure. Applied 15,000 daN compression onto packer.

Restarted BJ Services pumper. Increased annulus pressure to 25,000 kPa x 15 minutes. (Lost 110 kPa during pressure test). Indicated packer is set and holding. Released pressure.

02:00

Rotated drill pipe with top drive unit to release hydraulic setting tool. Pulled tension into string as rotated,

No indication would release and pull out of permanent packer top. (Required release is pull tension as rotate 10 turns to the right). Packers Plus management advised a straight pull with rotation is the requirement. Probable the tool is differential stuck with close

proximity of the permanent packer set at 3920.0 mKB.

Pulled in stages to maximum 190,000 daN indicated string tension. Rotated string with top drive and able to release off the packer at 185,000 daN.

03:30

Spotted and rigged up FI Canada pipe handling unit. Conducted a prejob safety meeting with FI Canada and rig crew.

Continued, hoisted and laid down 127.0 and 101.3 mm drill pipe string onto pipe racks.

No difficulty throughout.

19:45

Recovered Packers Plus setting device for permanent packer. Checked the outer setting sleeve housing damaged with appeared as overpull causing partial collapse and parted bottom threaded connection.

Lost a small segement of sleeve (Measurement at 44.5 mm wide, 70.0 mm long and 3.175 mm thick)

Advised Packers Plus management of tool condition. They are of the opinion the lost thin segment will not cause any problem with running latching assembly into the permanent packer. The lost metal is L-80 material,

Continued....

Supervisor/Phone: GEORGE (	Calling Card:

Printed: 2005/03/17 8.57:23 AM



Page 2 of 2

Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.L: NA 6665730. 22N 437588. 26E Zone: 10 Sect: L Rig Name: Bot Hole Loc:

Rig#:

AKITA DRILLING

1117

58

Date: 2005/03/17

RPT#: 7 DAY#: 7

Surface Loc.

WARREN MACPHAIL

8:00 AM Operation:

Run in hole with 114.3 mm production tubing string

24 Hour Summary: 24 Hour Forecast:

Office Supervisor.

Pressure tested packer O.K. Hoisted and laid down drill pipe Run 114.3 mm tubing production string.

**OPERATIONS LAST 24 HOURS** 

permanent packer is inconel 925 material with 110 ksi yield stength and with thicker seal bore wall than setting tool compression sleeve.

Continued with operations to run 114.3 mm production tubing string.

24:00

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:

Printed: 2005/03/17 8:57:23 AM



Page 1 of 2

Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event: ORIG COMPLETION

U.W.I.: NA

NA 6665730, 22N 437588, 26E Zone: 10 Sect; L

Rig Name: AKITA DRILLING

Date: 2005/03/19

Bot. Hole Loc: Surface Loc. Rig#:

RPT#: 9 DAY#: 9

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Well shut in / standinb by for repaired tubing hanger

24 Hour Summary:

Ran in hole with 114.3 mm tubing, GR-Correlation Log, Camera Log

24 Hour Forecast: Inhibit hole, land tubing hanger, inhibit casing.

24 Flour Fulecast. Illinoit	nois, izna tabing	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		יט.			
Well Status CASED				Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount		Daily Cos	ts \$	CUM. Costs	\$	
05290024	763,700		206,	035	1,809,65	3	
KB Elev.: 810.65 (m) Gr PB Depth: 3,673.0 (m)	ound Élev.:	803.65 (	m) KB-G	ound Level!	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:	-	(m²)	Cum:	(m³)	Oil in Surfa	ce Tanks:	(m³)
Daily H2O Hauled On:		$(m_2)$	Cum:	(m³)	H2O in Sur	face Tanks:	30.50 (m³)
Daily Other Hauled On:		$(m^3)$	Cum:	(m³)	Other in St	rface Tanks:	(m <sub>2</sub> )
Daily Oil Hauled Off:		(m <sub>a</sub> )	Cum:	(m <sub>a</sub> )	Oil Remain	ing to Recover:	(m²)
Daily H2O Hauled Off:		(m <sup>3</sup> )	Cum:	(m³)	H2O Rema	ining to Recover:	(m³)
Daily Other Hauled Off:		(m³)	Çum:	(ma)	Other Rem	aining to Recover:	
Non Recoverable Annular Oil:		$(m^a)$	Cum:	(m³)			
Non Recoverable Annular H2O:		(m <sub>a</sub> )	Cum:	(m³)	Gas Vented	d Today:	(Km³)
Non Recoverable Annular Other	•••	$(m_2)$	Cum:	(m³)	Gas Flared	Today:	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/18

00:01

Continued to tally, drift, pick up, thread wash, inspect, make up and run in hole with 114.3 mm, 18.75 kg/m,

L-80, VN80SS VAM TOP tubing production string.

07:30

Morning safety meeting with rig, tools, pipe handling crews. Daily walkaround check O.K.

07:45

Completed running in hole with a total of 416 joints tubing plus bottom hole assembly to GR-CCL Log Correlation point.

Rigged out and released FI Canada pipe handling unit. Spotted and rigged up Schlumberger logging unit to conduct a GR-CCL correlation log.

Picked up lubricator assembly. Found there was not a proper swage to adapt to 114,3 mm VAM TOP tubing coupler on Schlumberger unit. Available swage to make up into lubricator was 88.9 mm EUE pin down.

Searched ng tool house. Lonkar wireline unit and production gas plant for fittings to make up an adaptor.

Able to adapt from a 114.3 mm VAM TOP swage x 114.3 mm IF drill pipe thread to stabbling valve, back to drill pipe 114.3 mm IF nubbin, then to 88.9 mm line pipe thread. "B" Pressure welder on location cut the Schlumberger fitting and attached a heavy wall 88.9 mm line pipe thread nipple. Enabled tie in to drill pipe nubbin 88.9 mm LPT flow tee.

(Note: Weld conducted under ideal conditions with proper pre and post heat procedure. Excellent weld.) 12:45

Made up lubricator assembly. Picked up and ran in hole with GR-CCL tools. At 2000 mKB, tool shut down due to heat. Pulled out of hole. Picked up a Lee Tools High Temperature GR-CCL logging tool.

Ran in hole, correlated on depth to the Schlumberger CBL-VDL Log dated 2005/03/07. Conducted a GR-CCL log from 3896.0 to 3805.0 mKB. Logged the Halliburton "X" profile nipple at 3868.9 mKB. To be at 3885.3 mKB with string landed and latched into permanent packer at 3908.0 mKB. Adjustment required + 16.4

m. Pulled out of hole, recovered tools.

Made up and ran in hole with 1 joint 114.3 mm tubing plus 1 - 114.3 mm x 3.0 m tubing pup joint. Landed tubing bottom at approximately 2.0 m above permanent packer top to avoid tubing stretch due to heat and latching into packer.

Continued.....

Supervisor/Phone: GEORGE GILES (780) 835 - 1570 Calling Card:



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L

1117 Rig Name: **AKITA DRILLING** 

Date: 2005/03/19

Bot. Hole Loc:

Rig#:

58

**RPT#:** 9

DAY#: 9

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Well shut in / standinb by for repaired tubing hanger

24 Hour Summary:

Ran in hole with 114.3 mm tubing, GR-Correlation Log, Camera Log

24 Hour Forecast:

Inhibit hole, land tubing hanger, inhibit casing.

## **OPERATIONS LAST 24 HOURS**

#### 16:15

Rigged to run down hole camera system. Spotted and rigged up BJ Services pump unit. Spotted and rigged up fluid filter unit to supply pump truck. Checked fresh river water after filter as clear and clean. Camera personnel checked fluid and confirmed the water condition as acceptable.

Started pump down 114.3 mm tubing string at 0.50 m3/minute.

Ran in hole with camera assembly, conducted an internal tubing inspection. Checked the "X" profile nipple, top of seal assembly and noted bottom changeover of the polished bore receptacle seal assembly.

As dropped through bottom of tubing string, lost video picture. Appeared as if camera went into into dirty fluid or possible thread compound. Noted appeared as particles of thread compound dropping through fluid column.

With a total of 73.0 m3 clean, clear fresh water circulated, conditions are not proper to obtain camera response. Stopped pumps. Pulled out of hole with camera assembly. Recovered all tools.

Checked same and noted thread compound coating which probably contributed to loss of video feed back.

23:59

Continued operations and rigged out Schlumberger Wireline unit. Moved same to side of location,

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:

Printed: 2005/03/19 2:42:25 PM



Rig#:

Page 1 of 2

Well Name: **DEVON ET AL KOTANEELEE L-38** 

License#: 1117 Event: ORIG COMPLETION

RPT#: 10

DAY#: 10

U.W.I.:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L

Rig Name: **AKITA DRILLING** 58

Date: 2005/03/20

Bot. Hole Loc: Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation: 24 Hour Summary:

Rig out b.o.p, assembly

Circulated to inhibited water, installed and landed tubing hanger, pressure tested O.K.

Well Status					Start Date:	2005/03/10	Finish Date:	
AFE Nur		AFE Amount		Da	ily Costs \$	CUM. Costs \$		
05290	0024	<b>763</b> ,700			158,178	1,967,831		
KB Elev.: PB Depth:	810.65 (m) 3,673.0 (m)	Ground Elev.:	803.6	5 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hau			(m <sub>-2</sub> )	Сип	o. 0.00(m²)	Oil in Surfac	e Tanks:	(m³)
Daily H2O H			(m²)	Cum	: 0.00(m³)	H2O in Surfa	ace Tanks:	(m³)
Daily Other F			(m³)	Cum	.: 0.00(m³)	Other in Sud		(m³)
Daily Oil Hau	led Off:		(m³)	Cum	: 0.00(m²)		g to Recover:	(m³)
Daily H2O H	auled Off:		(mª)	Cum	: 0,00(m³)		ing to Recover:	598.50 (m²)
Daily Other H	lauled Off:		(m³)	Cum	, ,		ning to Recover:	115
Non Recover	able Annular Oi	I:	(m³)	Cum	• •	2		113
Non Recover	able Annular Ha	2 <b>0</b> :	(m³)	Cum		Gas Vented	Today:	(Km³)
Non Recover	able Annular Ot	her:	(m²)	Cum	, ,	Gas Flared T	-	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/19

00:01

Completed rigging out Schlumberger Wireline unit, Moved same to side of location.

Prepared to space out 114.3 mm tubing production string. Picked up Vetco Gray Type CWCT-F6H 273.0 mm x 114.3 mm Vam Top threaded tubing hanger complete with backpressure valve threads.

Tubing hanger would not drift. Found restricted i.d. at 78.0 mm x 100.0 mm long. Appeared as the hanger was not completed during machining process. 2 signatures on the Vetco Gray check sheet indicated the Quality Control checks had been done.

Advised Vetco Gray manufacturing manager. Shut well in.

Hauled fresh water to location to build volume for inhibited annular fluid.

07:30

Morning safety meeting with rig crew. Daily walkaround check O.K.

North Cariboo Air Twin Otter off Kotaneelee airstrip with Schlumberger, Downhole camera crews plus tubing hanger for Grande Prairie. Vetco Gray scheduled an aircraft to meet and transfer tubing hanger to Edmonton for completion of machining. Upon completion, an aircraft will hotshot direct to Kotaneelee.

09:00

Premixed a total of 150 m3 clean, filtered fresh water for annular packer fluid containing additives as follows:

200 litres Conqor 404 inhibitor. 2 sacks Caustic Soda. 20 litres SCW Scale Inhibitor. 4 pails Greenside Biocide. Mixed x 1:00 hour. pH at 10.0. Rigged to circulate. Added 40 litres Oxygen Scavenger to into system. Circulated and displaced hole with a total of 130 m3 inhibited fluid. Good, clean inhibited fluid returns to mud tank.

20:30

North Cariboo King Air at Kolaneelee airstrip. Unloaded repaired tubing hanger and transferred to location.

Checked and calipered i.d. at 100.0 mm. Good profile, threads in good condition. No damage to external area.

Made up a 114.3 mm, 18.79 kg/m, L-80, VN80SS, VAM TOP tubing pup joint x 0.46 m into tubing string.

Picked up and installed the Vetco Gray Type CWCT-F6H tubing hanger 273.0 mm x 114.3 mm VAM TOP box threads x 124.68 mm MCA box top threads (NOTE: Adaptor required from 124.69 mm MCA threads to 114.3 mm VAM TOP threads) complete with

Continued.....

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.L:

NA 6665730. 22N 437588. 26E Zone: 10 Sect. L Rig Name:

AKITA DRILLING Rig#; 58

1117

Date: 2005/03/20

RPT#: 10

DAY#: 10

Bot. Hole Loc: Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Rig out b.o.p. assembly

24 Hour Summary:

Circulated to inhibited water, installed and landed tubing hanger, pressure tested O.K.

24 Hour Forecast:

Remove b.o.p, install wellhead. Rig up test equip. and CTU.

## **OPERATIONS LAST 24 HOURS**

backpressure valve threads.

INCOLOY 718 - 120 K Alloy, NACE trim, A/F -50 degree service.

Checked thread make up. All threads throughout the 114.3 mm VAM TOP production string washed, inspected, lubricated and made up at 6016 Nm. (4440 ft. lbs.)

Rigged a BJ Services pump unit to circulate tubing string as lowered to latch same.

Started pump at 150 litres/minute.

Lowered string as flushed ahead of latch / seal assembly. Tagged top of the Packers Plus Permanent-Plus ELB Seal Bore Packer at 3907.88 mKB to centre element. Stopped pump. Latched into packer, no hang up.

Pulled 9000 daN tension, good latch.

Continued and pressure tested the 114.3 mm tubing string, latch / seal assembly at 25.0 MPa x 15 minutes as O.K., no leak off. (Charted by BJ Services).

24:00

Continued with pressure test operations.

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:



Page 1 of 2

Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event: OR

ORIG COMPLETION

U.W.I.; Bot. Hole Loc:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L

Rig Name: AKITA DRILLING Rig#: 58

1117

Date: 2005/03/21 RPT#: 11

DAY#: 11

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Well shut in / rigging in test equipment.

24 Hour Summary:

Landed tubing string, pressure tested, removed b.o.p., installed wellhead, pressure tested, slickline work

24 Hour Forecast: Spot and rig up test unit / coiled tubing/N2/acidizing units

Well Status	CASED				Start Date:	2005/03/10	Finish Date:	
AFE Num	ber	AFE Amount		Dai	ily Costs \$	CUM. Costs \$		
052900	024	763,700			95,426	2,063,257	,	
KB Elev.: PB Depth:	810.65 (m) 3,673.0 (m)	Ground Elev.:	803.6	5 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Haul	ed On:		(m³)	Cum	(m³)	Oil in Surfac	≄ Tanks:	(m <sub>2</sub> )
Daily H2O Ha	uled On:		(m³)	Cum	: (m³)	H2O in Surf	ace Tanks:	(m <sup>a</sup> )
Daily Other Ha	auled On:		$(m^3)$	Cum	: (m³)	Other in Sur	face Tanks:	(m³)
Daily Oil Haul	ed Off:		$(m^3)$	Cum:	(m³)	Oil Remaini	ig to Recover	(m³)
Daily H2O Ha	uled Off:		(m <sup>a</sup> )	Cum:	: (m³)		ning to Recover;	(m³)
Daily Other Ha	auled Off:		(m³)	Cum:	• •		ining to Recover:	( )
Non Recovera	ible Annular Oi	II:	(m⁵)	Cum:	• •		in the sail	
Non Recovera	bie Annular H	20:	(m³)	Cum:		Gas Vented	Todav:	(Km³)
Non Recovera	ble Annular Of	ther;	(m <sub>a</sub> )	Cum:		Gas Flared	· · · · · · · · · · · · · · · · · · ·	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/20

00:01

Continued with operations to pressure test 114.3 mm production tubing and packer assembly.

Rigged BJ Services pumper unit to tie in to 244.5 mm casing string. Pressure tested annulus and packer at 25.0 MPa x 15 minutes as O.K., no leak off. Released pressure.

Picked up on tubing string. Pulled to 135,000 daN indicated. Sheared and released the locator pins in the

Packer Plus Retrievable Polish Bore Receptacle at 33,000 daN over string weight.

Relanded tubing hanger with 15,000 daN force onto packer. Made up lag screws in tubing head.

Repressure tested the 114.3 mm tubing production string at 25.0 MPa x 15 minutes, O.K., no leak off.

Repressure tested the annulus and packer at 25.0 MPa x 15 minutes as O.K., no leak off.

(NOTE: All pressure tests chart recorded on BJ Services pumper unit) Rigged out pump unit.

04:00

Rigged out and released FI Canada power tong unit, TOS pipe inspection crew, Packers Plus toolmen.

05:00

Drilling rig crew continued operations to rig out b.o.p. stack into components for transport to Edmonton and inspection.

07:30

Conducted a morning safety meeting with rig crew. Daily walkaround check O.K.

08:00

Continued rigging out b.o.p. assembly.

15:30

Checked wellhead assembly. Tubing hanger landed into place. Lag screws made up properly. No indication of damage to tubing hanger extended sealing surface.

Vetco Gray Canada wellhead crew installed a new ring gasket. Picked up and installed a 103.2 mm x 35.0 MPa flanged, sour service flowing wellhead top section onto tubing head.

Pressure tested assembly at 1.4 and 31.0 MPa x 15 minutes as O.K., no leak off,

Pressure tested the extended tubing hanger seal pocket at 1.4 and 31.0 MPa x 15 minutes as O.K.

19:30

Continued....

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:

Printed: 2005/03/21 7:32:40 AM



Page 2 of 2

DEVON ET AL KOTANEELEE L-38 Well Name:

License#:

ORIG COMPLETION Event:

RPT#: 11

DAY#: 11

U.W.I.:

NA 6665730, 22N 437588, 26E Zone; 10 Sect: L

Rig Name: AKITA DRILLING Rig#: 58

Date: 2005/03/21

Bot Hole Loc:

Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Well shut in / rigging in test equipment.

24 Hour Summary:

Landed tubing string, pressure tested, removed b.o.p., installed wellhead, pressure tested, slickline work

24 Hour Forecast:

Spot and rig up test unit / coiled tubing/N2/acidizing units

## **OPERATIONS LAST 24 HOURS**

#### Released wellhead crew.

OPSCO Production Test crew started rigging in a flanged flow line assembly complete with ESD valve and remotely operated choke.

Lonkar Wireline crew spotted a skidded wireline unit. Rigged up to conduct operations to release the blanking plug in the Baker permanent packer at 3920.0 mKB complete with wireline b.o.p. and full lubricator.

Pressure tested same at 25.0 MPa, O.K. Conducted a prejob safety and operations meeting.

Continued slickline operations.

Calling Card: (780) 835 - 1570 GEORGE GILES Supervisor/Phone:

Printed: 2005/03/21 7:32:40 AM



Page 1 of 1

Well Name: DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

U.W.I.: Bot Hole Loc:

NA 6665730, 22N 437588, 26E Zone: 10 Sect; L Rig Name:

1117 AKITA DRILLING Rig#: 58

Date: 2005/03/22

Surface Loc.

RPT#: 12 DAY#: 12

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation: Prepare to run in hole with coiled tubing string. 24 Hour Summary:

Spotted and rigged up test unit / BJ Services pumpers, N2, Coiled tubing, mixed chemicals 24 Hour Forecast: Run in with coiled tubing, clean out, oush out blanking plug

Well Status		-			Start Date:	2005/03/10	Finish Date:	
AFE Num	ber	AFE Amount		Dai	ily Costs \$	CUM. Costs \$		
05290	024	763,700			<b>7</b> 8,726	2,141,983		
KB Elev.: PB Depth:	810.65 (m) 3,673.0 (m)	Ground Elev.:	803.6	5 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hau	led On:		(LU1 <sub>2</sub> )	Cum	; (m³)	Oil in Surfac	e Tanks;	(m³)
Daily H2O Ha			(m²)	Cum	: (m³)	H2O in Surf	ace Tanks:	(U) <sub>3</sub> )
Daily Other H	aulėd On:		(m³)	Cum	(m³)	Other in Sur	face Tanks;	(m <sub>2</sub> )
Daily Oil Haul	ed Off:		$(m^3)$	Cum	: (m³)	Oil Remainir	ng to Recover:	(m³)
Daily H2O Ha	uled Off:		$(m^3)$	Cum:	: (m³)	H2O Remaining to Recover:		(m³)
Daily Other H	auled Off:		$(m_3)$	Cum	(m³)	Other Remaining to Recover:		V /
Non Recovers	able Annular Oi	1:	(m²)	Cum:	: (m²)		• • • • • • • • • • • • • • • • • • • •	
Non Recoverable Annular H2O:		(m³)	Cum:		Gas Vented Today:		(Km³)	
Non Recoverable Annular Other:		(m³)	Cum:	, ,	Gas Flared Today:		(Km²)	

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/21

00:01

Continued with Lonkar slickline operations. Ran in hole with a 66.0 mm o.d. blind box. Tagged and hung up in appeared as soft fill at 3911.0 mKB (9.0 m above the knock out plug in permanent packer at 3920.0 mKB)

Worked tools, no progress. Pulled tight through top of fill. Pulled out of hole. Made up and ran in hole with 44.0 mm o.d. sinker bars, tagged at 3911.0 mKB. Worked tools, no progress. Pulled out of hole.

Made up and ran in hole with a 66.0 mm o.d. impression block. Tagged at 3911.0 mKB, pulled out of hole.

Checked impression block. No marks on face. One mark on edge of block which measured at 33.0 mm wide.

Appears as probable tagged the profile nipples in deviated hole section.

Recovered all tools. Rigged out slickline unit.

04:00

Continued with operations to spot and rig up OPSCO Production Test unit plus BJ Services fluid pumpers, N2, Coiled tubing units. 07:30

Conducted a morning safety meeting with rig crew. Daily walkaround check O.K.

08:00

OPSCO Production Testing crews continued to spot and rig up equipment.

Issued Safe Work Permit # 349557 to BJ Services.

BJ Services spotted 2 - fluid pumpers, 2 - N2 pumpers, 1 - chemical storage van, coiled tubing transporter and control unit.

Mixed chemicals into methanol/water 63.6 m3 storage tanks.

Utilized a cherry picker and installed coiled tubing b.o.p. and riser onto wellhead flow tee.

Picked up and installed coiled tubing injector onto rig floor.

Continued to prepare for coiled tubing clean out and acidizing operations.

Supervisor/Phone: GEORGE GILES (780) 835 - 1570 Calling Card:

Printed: 2005/03/22 7;38;38 AM



Page 1 of 1

Well Name: D

DEVON ET AL KOTANEELEE L-38

License#:

Event:

ORIG COMPLETION

N/A

NA 6665730. 22N 437588. 26E Zone: 10 Sect: L

Rig Name: AKITA DRILLING Rig#: 58

1117

Date: 2005/03/23

**RPT#: 13** 

DAY#: 13

Bot Hole Loc:

U.W.I.:

Surface Loc.

WARREN MACPHAIL

Office Supervisor: WARREN 8:00 AM Operation: Pull out of

Pull out of hole with 50.8 mm coiled tubing string

24 Hour Summary:

Opsco completed rig up. BJ Services froze off coil string, heated, thawed out, pressure tested same.

24 Hour Foregast: Run in hole with slickline tools.

24 Hour Forecast: Ki	In in hole with slick	HIE LOOIS.					<u> </u>
Well Status CASED				Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount		Dai	ly Costs \$	CUM. Costs	\$	
05290024	763,700			109,008	2,250,99	1	
KB Elev.: 810.65 (m) PB Depth: 3,673.0 (m)	Ground Elev.:	803.65	(m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(W <sub>2</sub> )	Cum	; (m <sub>2</sub> )	Oil in Surfa	ce Tanks:	(m <sub>2</sub> )
Daily H2O Hauled On:		(m³)	Cum	; (m³)	H2O in Sur	face Tanks:	$(m_a)$
Daily Other Hauled On:		(ma)	Cum	: (m²)	Other in Su	ırface Tanks:	$(m_2)$
Daily Oil Hauled Off:		(m³)	Cum	: (m³)	Oil Remain	ing to Recover:	(m³)
Daily H2O Hauled Off:		(m³)	Cum	(fri <sup>3</sup> )	H2O Rema	ining to Recover:	(m³)
Daily Other Hauled Off:		(m³)	Cum	: (m²)	Other Rem	aining to Recover:	
Non Recoverable Annular (	Dīl:	(m²)	Cum	: (m³)			
Non Recoverable Annular I		(m³)	Cum	; (m²)	Gas Vente	d Today:	(Km²)
Non Recoverable Annular (		(m³)	Cum	: (m²)	Gas Flared	Today:	. (Km³).

#### **OPERATIONS LAST 24 HOURS**

2005/03/22

00:01

OPSCO Production Test crews continued to rig up flowback/test unit. Purged all vessels with propane.

07:30

Conducted a morning safety meeting with rig crew. Daily walkaround check O.K.

00:30

OPSCO and BJ Services continued with rig up and preparation to conduct a coiled tubing clean but and acid squeeze operation.

12:00

BJ Services conducted a prejob safety and operations meeting with all personnel.

Started pump and filled coiled tubing string with a methanol/water mix plus 0.50 m3 15% HCl acid for tubing pickle. Attempted to pressure test coil string. Unable, froze off. Attempted to clear frost plug, unable.

covered real with a tarp and rigged a Hermann Nelson heater. Applied heat for approximately 8:00 hours.

Able to flush string with N2.

Continued with pressure test to 35.0 MPa.

24:00

Continued to conduct operations to pressure test coiled tubing string.

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:





DEVON ET AL KOTANEELEE L-38 Well Name:

License#:

Event:

ORIG COMPLETION

NA 6665730, 22N 437588, 26E Zone; 10 Sect; L

AKITA DRILLING Rig Name: 58 Rig#:

1117

Date; 2005/03/24 RPT#: 14 DAY#: 14

Bot Hole Loc: Surface Loc.

U.W.I.:

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Gas lift with N2 to recover load water

24 Hour Summary:

Cleaned out to bottom, pulled out of hole, conducted slickline work, pressure tested coiled tubing

Clean out to bottom. Gas lift to recover load fluid

	out to bottom. Gas		Start Date:	2005/03/10	Finish Date:	
Well Status CASED  AFE Number 05290024  KB Fley: 810,65 (m) G	AFE Amount 763,700		ly Costs \$ 80,696 KB-Ground Level:	CUM. Costs \$ 2,331,687 7.0 (m)		6.39
KB Elev.: 810,65 (m) G PB Depth: 3,673.0 (m)						
Deily Oil Houlad Oa'	(11	n³) Cum	; 0.00(m³)	Oil in Surfac	æ Tanks:	$(\mathbf{w}_z)$
Daily Oil Hauled On:	(п	•	2.000(m²)	H2O in Surf	ace Tanks:	(m³)
Daily H2O Hauled On:	(m			Other in Sur	rface Tanks:	(m³)
Daily Other Hauled On:	•	• •		Oil Remaini	ng to Recover.	(m³)
Daily Oil Hauled Off:	m)	• ,	4 5		ning to Recover:	598.50 (m³)
Daily H2O Hauled Off:	70.00 (m	_			ining to Recover:	115
Daily Other Hauled Off:	•	1 <sup>3</sup> ) Cum		Other remi	ming to recover	
Non Recoverable Annular Oil:	n)	ı³) Cum		5 1/2014	1 T., Jan 11	(Km³)
Non Recoverable Annular H20	D: (m	n²) Cum		Gas Vented		• -
Non Recoverable Annular Oth		n³) Cum	i: 0.00(m³)	Gas Flared	Today:	(Km³)

## **OPERATIONS LAST 24 HOURS**

#### 2005/03/23

00:01

BJ Services continued and pressure tested the 50.8 mm coiled tubing string at 35.0 MPa, O.K.

Started pumper and circulated methanol/water mix as ran in hole with string, no hang up. Tagged the knock out plug at 3920,0 mKB, Circulated and displaced the 114.3 mm tubing string with 32.0 m3 clean methanol/water mix. Returned fluid off bottom showed no

solids, dirty water, cleaned up.

Worked string as attempted to push the Baker Permanent Packer knock out plug free. No success.

Pulled up to 1733.0 mKB. Pressured 114.3 mm tubing in stages to maximum 25.0 MPa. Monitored, no indication had Jarred shear plns loose and initiated the blanking plug release.

Continued out of hole with coiled tubing string.

09:00

Coiled tubing at surface. Purged same with N2. Rigged off injector, riser and lubricator.

Lonkar Wireline rigged wireline b.o.p. and full lubricator onto wellhead flow tee.

BJ Services pressure tested same with N2 at 25.0 MPa, O.K.

Continued and in a total of 3 runs with 63.5 mm, 88.9 mm, 63.5 mm magnets, tagged above the permanent packer at 3917.0 mKB. Recovered magnets with a good amount of metal wickers and fines.

Ran in hole with a 55.68 mm o.d. gauge ring/ spang jars/ sinker bars. Tagged the Baker Tools blanking plug in the packer at 3920.0 mKB. Pressured the 114.3 mm tubing string at 21.0 MPa, monitored same.

Jarred down onto the blanking plug at 3920.0 mKB. Broke loose, pulled slickline tools downward to 3934.0 mKB. Able to stop at 3934.0 mKB. 114.3 mm tubing string on vacuum as fluid level dropped.

Able to pull out of hole and recover all tools.

19:00

Rigged out and laid down Lonkar Wireline full lubricator, wireline b.o.p., and adaptor flange.

BJ Services re-rigged coiled tubing b.o.p., riser and injector onto wellhead.

Pressure tested coiled tubing string and all connections at 35.0 MPa, O.K.

24:00 - Prepared to run in hole with 50.8 mm coiled tubing string.

Calling Card: (780) 835 - 1570 GEORGE GILES Supervisor/Phone: Printed: 2006/03/24 7:49:00 AM





**DEVON ET AL KOTANEELEE L-38** Well Name:

U.W.L:

NA 6665730. 22N 437588. 26E Zone: 10 Sect: L

License#: Rig Name:

Rig#:

1117 AKITA DRILLING

58

Event: ORIG COMPLETION

RPT#: 15

DAY#: 15

Date: 2005/03/25

Bot Hole Loc: Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Conduct N2 gas lift operation to unload well

24 Hour Summary:

Conducted a staged, diverted acid squeeze to the Nahanni interval

Coiled tubing clean up and flow to evaluate

24 Hour Forecast: UC	ned tubing clean up	and now t	0 0 701	4410			
Well Status CASED				Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount	AFE Amount Daily Costs \$		CUM. Costs 5			
05290024	4,900,000			284,542	2,616,229		
KB Elev.: 810.65 (m) PB Depth: 3,673.0 (m)	Ground Elev.:	803.65 (r	n) P	(B-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(m <sub>a</sub> )	Cum:	0.00(m³)	Oil in Surfa	æ Tanks:	(m <sub>2</sub> )
Daily H2O Hauled On:		<b>,</b> ,	Cum:	0.00(m³)	H2O in Surf	ace Tanks:	(m³)
Daily Other Hauled On:	20.00	( /	Cum:	20.00(m³)	Other in Su	rface Tanks:	(m³)
Daily Oil Hauled Off:			Cum:	0.00(m³)	Oil Remaini	ng to Recover.	$(\mathbf{u}_2)$
Daily H2O Hauled Off:		, ,	Cum:	70.00(m³)	H2O Rema	ning to Recover:	598.50 (m³)
Daily Other Hauled Off:			Cum:	0.00(m³)	Other Rema	aining to Recover:	123
Non Recoverable Annular (	Olt:	•	Cum:	0.00(m³)			
Non Recoverable Annular I		1 .	Cum:	( <sup>z</sup> m)00,0	Gas Vented	l Today:	(Km³)
Non Recoverable Annular (			Cum:	0.00(m <sup>3</sup> )	Gas Flared	Today:	(Km²)

## **OPERATIONS LAST 24 HOURS**

#### 2005/03/24

00:01

BJ Services continued to run in hole with 50.8 mm coiled tubing string. Staged as unloaded 114.3 mm production tubing with N2 at 20

Returned load water to flowback unit. No gas cut.

07:00

Conducted a morning safety meeting with ng crew. Daily walkaround check O.K.

Continued and ran in with coiled tubing to 4065.0 mKB. Fluid returns declined to nil. No gas cut.

Recovered a total of 21.72 m3 load water. Stopped N2 pumpers.

Prepared to conduct an acid squeeze on the Nahanni open hole interval from 3953.0 to 4065.0 mKB.

Conducted a Prejob Energized Acidizing Safety Meeting with all personnel.

SDS Safety shower unit and 2 personnel on location. Cormac medic and transport. North Cariboo aircraft on standby at Kontaneelee airstrip for emergency evacuation if required.

Premixed chemicals for foam and gelled diverter stages.

12:30

Started N2 pumpers at 36 m3/minute, fluid pumpers at 100 litres/minute. Pumped, displaced to, spotted and foamed pad into the 114.3 mm / 50.8 mm annulus to isolate the open hole section.

Pumped 4.5 m3 15% HCI acid plus additives plus gelled fluid diversion stages though the 50.8 mm coiled tubing string to bottom with methanol / water mixture.

Staged the coiled tubing string through and identified the probable fractured intervals. Suspected fractured section below the logged interval from 4050.5 to 4065.0 mKB would not feed.

Identified the large fracture from 4026.8 to 4031.2 mKB. Did not feed and break down as per original projection.

Pumped an additional 3.0 m3 15% HCl acid plus additives. Flushed to bottom with methanol / water mixture.

Squeezed to the Nahanni interval 4026.8 to 4031.2 mKB. Injection rate 700 to 800 litres/minute. Pressure at average 7.0 MPa. Foamed and gelled pad isolating the fractured intervals held throughout.

With all acid away, stopped pumps, monitored x 20 minutes for acid to spend.

Opened 114.3 mm tubing to flow, declined to 0 kPa, no flow.

Continued.....

Calling Card: (780) 835 - 1570 GEORGE GILES Supervisor/Phone: Printed: 2005/03/28 9:14.56 AM



Page 2 of 2

DEVON ET AL KOTANEELEE L-38 Well Name:

NA 6665730, 22N 437588, 26E Zone: 10 Sect. L Rig Name: U.W.I.:

License#:

Rig#:

1117

58

**AKITA DRILLING** 

Event:

ORIG COMPLETION

Date: 2005/03/25

RPT#: 15 DAY#: 15

Bot. Hole Loc:

Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Conduct N2 gas lift operation to unload well

24 Hour Summary:

Conducted a staged, diverted acid squeeze to the Nahanni interval

Coiled tubing clean up and flow to evaluate 24 Hour Forecast:

#### **OPERATIONS LAST 24 HOURS**

Started N2 pumper down 50.8 mm coiled tubing string, pulled up to 3900.0 mKB.

Returned 12.0 m3 methanol cut load water, no gas cut, no solids. Returns declined to nil. Stopped N2 pumper.

19:45

Ran in hole with coiled tubing to 4065.0 mKB. Mixed chemicals for main acid squeeze.

Started, pumped, displaced and spotted foamed fluid pad into the 114.3 mm / 50.8 mm coiled tubing annulus to isolate the Nahanni open hole section from 3953.0 to 4065.0 mKB.

Started and pumped a staged, diverted acid squeeze to the isolated, previously identified fractured intervals.

Diverted acid stages with foam and heavily gelled fluid. Injection rates inItially 370 to 480 litres/minute.

Annular pressure at 6.0 to 8.5 MPa.

24:00

Continued with diverted acid squeeze to the Nahanni interval.

Supervisor/Phone:





DEVON ET AL KOTANEELEE L-38 Well Name:

License#:

Event:

ORIG COMPLETION

U.W.I.:

AKITA DRILLING

1117

Date: 2005/03/26

DAY#: 16

Bot. Hole Loca

NA 6665730. 22N 437588, 26E Zone: 10 Sect: L Rig Name;

58

RPT#: 16

Surface Loc. Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Flow well on clean up and initial evaluation

24 Hour Summary: 24 Hour Forecast:

Conducted acid squeeze to Nahanni intervals, gas lifted load fluids, rigged out BJ, flowed well

Rig#:

Flow on clean up, run wireline plug and backpressure valve

Well Status CASED			Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount	AFE Amount Da		CUM. Costs \$		
05290024	4,900,000		217,530			
KB Elev.: \$10.65 (m) PB Depth: 3,673.0 (m)		803.65 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:		(m³) C	ım: 0.00(m²)	Oil in Surfac	e Tanks:	(m <sub>2</sub> )
Daily H2O Hauled On:			ım: 0.00(m³)	H2O in Surf	ace Tanks:	(W <sub>2</sub> )
Daily Other Hauled On:		(m²) Ci	um: 20.00(m³)	Other in Sur	face Tanks:	(m³)
Daily Oil Hauled Off.		(m³) Ci	um: 0.00(m²)	Oil Remainii	ng to Recover.	(m³)
Daily H2O Hauled Off:	64.00	•	ım: 134.00(m³)	H2O Remai	ning to Recover:	627.55 (m²)
Daily Other Hauled Off:			ım: 0.00(m²)	Other Rema	ining to Recover:	207
Non Recoverable Annular	Oil:	• •	ım: 0.00(m³)			•
Non Recoverable Annular		(m <sup>3</sup> ) C	ım: 0.00(m³)	Gas Vented	Today:	(Km³)
Non Recoverable Annular		(m³) Ci	m: 0.00(m²)	Gas Flared	Today:	37.30 (Km³)

## OPERATIONS LAST 24 HOURS

#### 2005/03/25

Continued with a diverted, staged through 50.8 mm coiled tubing acid squeeze to the Nahanni open hole section from 3953.0 to 4065.0 mKB.

Stage squeezed 33.0 m3 15% HCl acid plus additives into the previously identified smaller fractured intervals throughout the interval from 3959.2 to 4044.4 mKB. Injection rates from 370 to 480 litres/minute.

Injection pressure from 7.94 to 8.31 MPa. Squeezed an additional 39.5 m3 15% HCl acid plus additives and heavy gelled water diverter stages into the larger fractured interval from 4026.8 to 4031.2 mKB.

Injection rate from 490 to 520 litres/minute. Injection pressure from 7.94 to 6.31 MPa, slight decline to 7.86 MPa. Noted some pressure variation with heavy gelled fluid stages at formation. BJ Services acidizing specialists indicated that acid had been extended into all available fractures.

With all stages and a total of 72.5 m3 acid away, flushed the 50.8 mm coiled tubing string with N2.

Total acid injected to formation during initial and final acid squeeze operations = 80.0 m3.

Stopped pumps. Monitored x 20 minutes as acid spent. 114.3 mm tubing pressure at 7.80 MPa.

03:30 Pulled coiled tubing up to 3200 mKB. Calculated load fluid to recover from drilling and completion operations: Amodrill 1400 base oil = 250.6 m3; Water and spent acid = 1016.7 m3

Total load fluid to recover = 1267.3 m3

Started gas lift to recover spent acid and load fluid.

N2 pump rate at 23 to 30 m3/minute. Minimal fluid recovery.

07:00

Recovered 2.29 m3 methanol water, no gas cut. pH 7.0. Shut down N2 pumpers. Monitored for inflow.

No gas, no fluid, dead. Pulled coiled tubing to 1500 mKB. Shut in, monitored build up.

12:00

Shut in tubing pressure at 855 kPa. Opened to flowback unit and flare. Pressure dropped to 0 kPa, weak N2 blow, no gas, no fluid.

Started N2 pumper at 10 m3/minute. Ran in hole with 50.8 mm coiled tubing.

Tagged fluid level at 2550 mKB. Continued running in hole, increased N2 rate to 40 m3/minute.

With coiled tubing at 3475 mKB, returned N2 cut load fluid to surface. Continued running in hole to 4065.0 mKB.

Continued.....

Calling Card: GEORGE GILES (780) 835 - 1570 Supervisor/Phone: Printed: 2005/03/28 9:14:51 AM



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

U.W.I.: NA 6665

NA 6665730. 22N 437588, 26E Zone: 10 Sect: L Rig Name:

License#:

1117

58

AKITA DRILLING

Event:

ORIG COMPLETION

Date: 2005/03/26

RPT#: 16 DAY#: 16

Bot Hole Loc:

Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Flow well on clean up and initial evaluation

8:00 AM Operation: 24 Hour Summary:

Conducted acid squeeze to Nahanni intervals, gas lifted load fluids, rigged out BJ, flowed well

Rīg#:

24 Hour Forecast: Flow on clean up, run wireline plug and backpressure valve

## **OPERATIONS LAST 24 HOURS**

Conducted a gas lift swabbing operation. Reciprocated coiled tubing string from 4065 to 3900 mKB x 3 times as continued with N2 pump rate at 40 m3/minute. Recovered initially N2 out load water, became weak gas cut water. Shut down N2 pumper, monitored fluid returns. Continued to surge and flow, became good gas cut. As flow increased, reduced choke setting to 25.4 mm. Became strong gas cut fluid recovery, no oil show, no solids. Salinity 170,000 ppm, pH 6.0. H2S at 2.2%.

Pulled out of hole with coiled tubing as flowed well on clean up.

With coiled tubing at surface, tubing pressure at 6348 kPa. Gas flow rate 499.950 10^3 m3/day.

Load water recovered = 56.40 m3; Calculated load fluid left to recover = 1210.9 m3

22-00

Shut well in. BJ Services rigged out coiled tubing injector, riser and b.o.p. assembly. Fluid and N2 pumpers rigged out. Prepared to move all BJ Services units off location and return to Grande Prairie base.

24:00

Supervisor/Phone:

GEORGE GILES

(7\$0) 835 - 1570

Calling Card:

Printed: 2005/03/28 9:14;51 AM





DEVON ET AL KOTANEELEE L-38 Well Name:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L

License#: Rig Name:

Rig#:

1117

58

Event: AKITA DRILLING

ORIG COMPLETION

Date: 2005/03/27

RPT#: 17

DAY#: 17

u.W.L.: Bot. Hole Loc: Surface Loc.

Office Supervisor: 8:00 AM Operation: WARREN MACPHAIL Well shut in, rigging out drilling rig

24 Hour Summary:

Flowed on clean up. Shut in. Ran and set plug into "X" profile nipple.

Set plugs in tubing. Complete rigging out.

41	s in tubing. Complete	e rigging out	Start Date:	2005/03/10	Finish Date:	
05290024 KB Elev.: 810.65 (m) Gro	FE Amount 4,900,000 und Elev.: 803.		Costs \$ 62,811 3-Ground Level:	CUM. Costs \$ 2,896,570 7.0 (m)		6.39
PB Depth: 3,673.0 (m)  Daily Oil Hauled On: Daily H2O Hauled On: Daily Other Hauled On: Daily Oil Hauled Off: Daily H2O Hauled Off: Daily Other Hauled Off: Non Recoverable Annular Oil: Non Recoverable Annular Other: Non Recoverable Annular Other:	(m³) (m³) (m³) (m³) (m³)	Cum: Cum: Cum: Cum: Cum: Cum: Cum: Cum:	0.00(m³) 0.00(m³) 20.00(m³) 0.00(m³) 134.00(m³) 0.00(m³) 0.00(m³) 0.00(m³)	H2O Remai	ace Tanks:  face Tanks:  ng to Recover:  ning to Recover:  aining to Recover.	(m³) (m³) (m³) (m³) 627.55 (m³) 207 (Km³) 196.30 (Km³)

## **OPERATIONS LAST 24 HOURS**

#### 2005/03/26

00:01

Safety meeting with rig and flowback crews. Daily walkaround check O.K.

Continued and completed rigging out BJ Services coiled tubing, fluid pumpers, N2 pump trucks.

Moved all equipment off location to Grande Prairie and Red Deer yards. No BJ Services equipment left on location.

01:45

Shut in tubing pressure 12,580 kPa. Shut in casing pressure 15,000 kPa (Expansion)

Opened to flow well through a 19.05 mm fixed choke to production test unit and flare.

Strong gas cut load water surge and flow. Samples initially 0.2% sediment, declined to nil.

Fluid recovery rate through the 19.05 mm choke at 4.72 to 6.22 m3/hour. Salinity initially 12,000 to 15,000 ppm, pH 7.0. Increased to and stabilized at 85,000 ppm, pH 6.0.

Gas flow rate from 338.377 to 363.832 E3/m3/day. H2S at 2.2%.

08:00

Increased choke setting to 25.4 mm. Continued flowing well on clean up.

Strong gas cut load fluid surge and flow. Tubing pressure at 7160 to 7925 kPa. Shut in casing pressure at maximum 26,500 kPa due to

heat expansion. Released annular pressure to 7000 kPa, monitored build up.

Fluid recovery rate increased to 21.56 m3/hour. No sediment show. Salinity \$5,000 ppm, pH 6.0.

Gas flow rate varied from 513.182 to 500.943 E3/m3/day. Flowing tubing temperature at surface 44 degrees C.

NOTE: With well shut in and tubing temperature cooling, shut in casing pressure declines to 0 kPa.

Retained a high pressure gas sample: Sample chamber # CX 00311 plus 2 fluid samples from test separator.

Samples will be taken to AGAT Labs, Grande Prairie for routine analysis.

09:30

Shut well in for drilling rig to remove top drive assembly.

Load water recovered during 7:45 hour flow period = 51.59 m3

Cumulative load water recovered = 107.99 m3

Load fluid left to recover = 1102.91 m3

Gas flared during 7:45 hour flow period = 195.358 E3/m3

Continued.....

Calling Card: (780) 835 - 1570 GEORGE GILES Supervisor/Phone: Printed: 2005/02/28 9:14:45 AM



Page 2 of 2

DEVON ET AL KOTANEELEE L-38 Well Name:

u.W.L:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L Rig Name:

License#:

1117

AKITA DRILLING 58

ORIG COMPLETION Event:

Date: 2005/03/27

RPT#: 17 DAY#: 17

Bot Hole Loc: Surface Loc.

Office Supervisor: 8:00 AM Operation: WARREN MACPHAIL

Well shut in, rigging out drilling rig

Flowed on clean up. Shut in, Ran and set plug into "X" profile nipple.

24 Hour Summary: Set plugs in tubing. Complete rigging out. 24 Hour Forecast:

## **OPERATIONS LAST 24 HOURS**

Rig#:

Cumulative gas flared = 232.714 E3/m3.

#### 13:00

Shut in tubing pressure 12,500 kPa.

Lonkar Wireline crew on location. Spotted and rigged up skidded wireline unit. Safety and operations meeting with crew. Installed a wireline b.o.p. and full lubricator onto wellhead flow tee. Pressure tested same with wellhead gas at 12,500 kPa, O.K.

Ran in hole with a 97.0 mm o.d. gauge ring to the Halliburton "X" profile (96.77 mm) nipple at 3883.71 mKB.

No hang up. Pulled and recovered gauge ring. Made up and ran in hole with a 97.0 mm o.d. brush, tagged and worked same through the 96,77 mm "X" profile at 3883.71 mKB. Pulled and recovered same.

Picked up and ran in hole with a Halliburton "PX" 96.77 mm plug (925 Inconel material).

Landed and set same into the "X" profile at 3883.71 mKB, no difficulty, good latch.

Ran and landed prong into plug, no hang up.

Continued with slickline operations.





Well Name: DEVON ET AL KOTANEELEE L-38

u.W.l.: NA 6665730, 22N 437588, 26E Zone: 10 Sect: L

License#: **AKITA DRILLING** 

1117

58

Event:

ORIG COMPLETION

Rig Name:

Rig#:

Date: 2005/03/28

Bot, Hole Loc: Surface Loc.

WARREN MACPHAIL

Office Supervisor: 8:00 AM Operation:

Well shut in / moving drilling rig off location

24 Hour Summary:

Ran a plug to isolate wellhead, well secured. Drilling rig rigging out to move

RPT#: 16 **DAY#: 18** 

24 Hour Forecast: Wel	I shut in / moving drillin	g rig on lo	cation			
Well Status CASED	4		Start Date:	2005/03/10	Finish Date:	
AFE Number	AFE Amount	Da	ily Costs \$	CUM. Costs \$		
05290024	4,900,000		84,358	2,980,928		
KB Elev.: 810.65 (m) PB Depth: 3,673.0 (m)	Ground Elev.; 803	3.65 (m)	KB-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Hauled On:	(m³	) Cum	n; 0.00(m³)	Oil in Surfac	e Tanks:	(m <sub>3</sub> )
Daily H2O Hauled On:	(m³	) Cum	i: 0.00(m³)	H2O in Surfa	ace Tanks:	(m³)
Daily Other Hauled On:	(m³	) Cum	: 20.00(m³)	Other in Sur	face Tanks:	(m³)
Daily Oil Hauled Off;	(m³	) Cum	i; 0.00(m²)	Oil Remainii	ng to Recover:	(m <sup>a</sup> )
Daily H2O Hauled Off:	60.00 (m³	) Cum	i: 194.00(m³)	H2O Remail	ning to Recover:	627.55 (m³)
Daily Other Hauled Off:	(m³	) Cum	i: 0.00(m²)	Other Rema	ining to Recover:	207
Non Recoverable Annular Oil	i: (m²	) Cum	r: 0.00(m³)			
Non Recoverable Annular H2O:		) Çum	o: 0.00(m²)	Gas Vented Today:		(Km³)
Non Recoverable Annular Ot	: <u>.</u> :	) Cum	: 0.00(m³)	Gas Flared	Today:	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/27

00:01

Safety meeting with wireline crew. Daily walkaround check O.K.

Continued with Lonkar Wireline operations. Ran in hole with a prong for the Halliburton PX plug set into the

96.77 mm "X" profile nipple at 3883.71 mKB.

Shut in tubing pressure at 12,500 kPa. Bled through an adjustable choke to flowback unit and flare. Pressure dropped to 10,500 kPa.

Shut In. Tubing pressure increased to 12,500 kPa immediately. Plug did not hold.

Ran in hole, pulled and recovered prong. Checked seals in good condition.

Ran in hole with a replacement prong complete with extended seal assembly. Landed same into the "PX" plug. Recovered running tools. Opened tubing to flowback unit. Plug did not hold.

05:00

Shut well in. Transported wireline crew to camp for rest.

Akita Drilling crew continued with rigging out operations.

Lonkar Wireline crew on location. Morning safety meeting regarding continued operations to recover and set a plug into the "X" profile nipple at 3883.71 mKB.

Checked shut in tubing pressure at 12,500 kPa. Opened tubing to flowback unit and flare. Indicated plug still leaking. Continued and in 2 runs, pulled and recovered the "PX" prong and plug. Prong seals torn. Plug body contained minimal amount of iron wickers and gritty

Redressed plug. Ran in hole, hung up at 1900.0 mKB. Some difficulty pulling free in appeared as Junk.

Pulled out of hole, recovered all tools. Checked plug in good condition. No sign of junk or loss circulation materials. Rigged out slickline unit.

With O.K, from Calgary Operations, Vetco Gray Wellhead crew installed a lubricator assembly onto wellhead flow tee. Installed a one-way backpressure valve into the tubing hanger. Bled off wellhead top section. Plug in place and holding. Removed lubricator assembly. Installed cap onto wellhead flow tee.

Well shut in and secured for drilling rig move.

Continued.....

Calling Card: GEORGE GILES (780) 835 - 1570 Supervisor/Phone:

Printed: 2005/03/29 10:19:35 AM



Page 2 of 2

DEVON ET AL KOTANEELEE L-38

Well Name:

License#: 1117 AKITA DRILLING Rig Name:

58

Event:

ORIG COMPLETION

DAY#: 18

U.W.I.:

NA 6665730. 22N 437588, 26E Zone: 10 Sect; L

Rig#:

Date: 2005/03/28 RPT#: 18

Bot, Hole Loc:

Surface Loc. Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

24 Hour Summary: 24 Hour Forecast:

Well shut in / moving drilling rig off location

Ran a plug to isolate wellhead, well secured. Drilling rig rigging out to move

Well shut in / moving drilling rig off location

**OPERATIONS LAST 24 HOURS** 

Suspended completion operations until drilling rig and equipment off location.



Rig#:

Page 1 of 2

Well Mame:

**DEVON ET AL KOTANEELEE L-38** 

License#: 1117 ORIG COMPLETION

U.W.I.:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L Rig Name:

Event:

Bot. Hole Loc:

Date: 2005/03/31 RPT#: 19

Surface Loc.

DAY#: 21

Office Supervisor: 8:00 AM Operation: WARREN MACPHAIL

Rig out slickline and production test units.

24 Hour Summary:

Removed backpressure valve, rigged slickline unit, conducted static gradient survey

24 Hour Forecast: Complete static gradient survey, rig out equipment

Well Status CASED		Si	art Date:	2005/03/10	Finish Date:	
AFE Number AFE	Amount	Daily Costs	; \$	CUM. Costs \$		
D5290024 4,	900,000	58,7	14	3,039,642		
KB Elev.: 810.65 (m) Ground PB Depth: 3,673.0 (m)	Elev.: 803.65	(m) KB-Gro	und Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Cil Hauled On:	(m³)	Cum:	(m³)	Oil in Surfac	e Tanks:	(W <sub>a</sub> )
Daily H2O Hauled On:	(m <sub>3</sub> )	Cum:	(m³)	H2O in Surfa	ace Tanks:	(m <sup>a</sup> )
Daily Cther Hauled On:	(m³)	Cum:	(m³)	Other in Sur	face Tanks:	(m²)
Daily Oil Hauled Off:	(m³)	Cum:	(m³)	Oil Remainir	ig to Recover:	(m <sup>a</sup> )
Daily H2O Hauled Off:	(m³)	Cum;	(m <sub>3</sub> )		ning to Recover:	(m³)
Daily O¦ther Hauled Off:	(m³)	Cum:	(m³)		ining to Recover:	V /
Non Recoverable Annular Oil:	(m³)	Cum:	(m³)		<b>U</b>	
Non Recoverable Annular H2O:	(m³)	Cum:	(m³)	Gas Vented	Todav:	(Km³)
Non Recoverable Annular Other:	(m²)	Cum:	(m³)	Gas Flared 1	•	(Km³)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/30

11:45

On location with United Safety, Lonkar Wireline, Vetco Gray Wellhead, DFi Trucking crews. Opsco Production Test unit rigged up.

Compac medic and emergency transport vehicle on location.

Conducted a morning and prejob safety meeting with all personnel,

12:00

Spotted and rigged up a DFi cherry picker unit to hold lubricator assembly.

Shut in tubing pressure at 0 kPa, backpressure valve installed into wellhead and holding.

Vetco Gray crew installed a lubricator assembly onto wellhead flow tee. Pressure tested same at 21.0 MPa, O.K.

Attempted to pull and retrieve the backpressure valve installed into tubing hanger, unable. Found the polish rod assembly was too short to latch into vaive. Removed wellhead flow tee. Reinstalled lubricator.

Able to pull and recover the backpressure valve in good condition.

Shut in tubing pressure at 12,700 kPa (Pressure gauge). Reinstalled wellhead flow tee assembly. Rerigged Opsco flow line and ESD valve onto flow tee. No wellhead leaks.

Released Vetco Gray Wellhead crew.

19:45

Lonkar Wireline spotted and rigged up a skidded wireline unit to conduct a Static Gradient Survey.

Installed wireline b.o.p. on to wellhead flow tee. Picked up and installed a full lubricator assembly.

Pressure tested same with wellhead gas at 12,700 kPa, O.K.

Picked up and ran in hole with an empty bombwell assembly complete with jars, knuckle joints, sinker bars.

No hang up. Tagged bottom at 4047.0 mKB. Pulled out of hole. Recovered all tools.

Installed 4 - 35.0 MPa PCi High Temperature Electronic Strain Gauges (Calibrated at 180 degrees C) s/n PC 10097, PC 10095, PC 10101, PC 10166 into bombwell.

Conducted a Static Gradient Survey with a total of 21 stops as follows:

20.0 mKB Shut in tubing pressure 12399.03 kPa x 5 minutes. Remaining stops at 15 minute intervals from;

1000 0, 2000.0, 2200.0, 2400.0, 2600.0, 3000.0 mKB.

No indication of fluid level tagged.

Continued.....

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card:



Page 2 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#:

ORIG COMPLETION Event:

U.W.I:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L Rig Name:

Date: 2005/03/31

Bot Hole Loc:

DAY#: 21

RPT#: 19

Surface Loc.

Office Supervisor:

24 Hour Forecast:

WARREN MACPHAIL

Rig out slickline and production test units.

8:00 AM Operation: 24 Hour Summary:

Removed backpressure valve, rigged slickline unit, conducted static gradient survey

Complete static gradient survey, rig out equipment

#### **OPERATIONS LAST 24 HOURS**

Rig#:

24:00

Continued with static gradient survey.

Supervisor/Phone:

**GEORGE GILES** 

(780) 835 - 1570

Calling Card:

Printed: 2005/04/01 1;15;16 PM



Page 1 of 2

Well Name:

DEVON ET AL KOTANEELEE L-38

License#: 1117 ORIG COMPLETION

U.W.I.:

NA 6665730, 22N 437588, 26E Zone: 10 Sect: L Rig Name:

Event:

Date: 2005/04/01

Bot. Hole Loc:

RPT#: 20

Surface Loc.

Rig#:

DAY#: 22

Office Supervisor:

WARREN MACPHAIL

8:00 AM Operation:

Well shut in and secured / all equipment rigged out and moved off location

24 Hour Summary:

Completed static gradient survey, rigged out wireline and test units, moved off location

24 Hour Forecast: Well shut in and secured pending production tie in.

Well Status	CASED				Start Date:	2005/03/10	Finish Date:	
AFE Numl	ber	AFE Amount		Daily (	Costs \$	CUM. Costs \$		
052900	)24	4,900,000	133,717			<b>3,</b> 173,359	ı	
KB Elev.: PB Depth:	810.65 (m) 3,673.0 (m)	Ground Elev.:	803.6	(m) KE	-Ground Level:	7.0 (m)	KB-Casing Flange:	6.39
Daily Oil Haul	ed On:		(m <sup>3</sup> )	Cum:	(m <sub>2</sub> )	Oil in Surfac	e Tanks:	(m²)
Daily HŻO Hai	uled On:		$(U_3)$	Cum:	(m³)	H2O in Surf	ace Tanks:	(m³)
Daily Other Ha	auled On:		(m <sub>3</sub> )	Cum:	(m³)	Other in Sur	face Tanks:	(m³)
Daily <b>Oi</b> l Haul	ed Off:		(m³)	Cum:	(m³)	Oil Remainir	ng to Recover:	(m²)
Daily HŻO Had	uled Off:		(m³)	Cum:	(m³)	H2O Remaining to Recover:		(m <sub>3</sub> )
Daily Other Ha	auled Off:		(m³)	Cum;	(m <sub>2</sub> )	Other Remaining to Recover:		( )
Non Recovera	ble Annular O	il:	(m³)	Cum:	(m³)			
Non Recovera	ble Annular H	20:	(m <sup>5</sup> )	Cum:	(tem)	Gas Vented	Today:	(Km³)
Non Recovera	ble Annular O	ther:	(m <sub>a</sub> )	Cum:	(m²)	Gas Flared 7	•	(Km²)

#### **OPERATIONS LAST 24 HOURS**

#### 2005/03/31

00:01

Continued with Lonkar Wireline to conduct a Static Gradien Survey as follows:

15 minute intervals with stops at 3400.0, 3800.0, 3900.0, 3959.8, 3965.5, 3969.1, 3975.4, 3983.0, 3988.4, 4020.0, 4024.15, 4029.0,

4044 nKB. With pressure recorders at final stop on bottom recorded tubing pressure at surface by deadweight gauge: 03:39 hours 2005/03/31 - 12,729.93 kPa.

Tools pulled tight off bottom, worked same and pulled up into the 177.8 mm casing string. Pulled up, monitored for, and no indication of a fluid level. Conducted a 5 minute stop with recorders at surface.

Shut well in, Recovered all tools. Downloaded recorders. Good information obtained.

Maximum bottom hole pressure recorded 17,240.953 kPa. Maximum bottom hole temperature recorded

154,\$40 degrees C.

Shut in 244.5 mm casing pressure at 0 kPa. Pressure builds during flowing operations as annular fluid heats up.

Morning safety meeting with Lonkar and OPSCO crews. Daily walkaround check O.K.

Wellhead shut in and secured. All outlets bull plugged.

Rigged out slickline unit. Prepared to move all equipment back to Grande Prairie base.

09:00

OPSCO Production Test crew purged test vessel with propane. No H2S present. Rigged out all equipment.

Utilized a Formula Transport cherry picker and laid down flare stack, no difficulty,

Loaded out OPSCO equipment for return to Grande Prairie base.

DC Energy rigged out and loaded out all 5 - 63.6 m3 fluid storage tanks, berns, liner and matts for return to Grande Prairie base.

12:00

All equipment loaded. Trucks at camp and ready to travel on access road at 22:00 hours.

NOTE: Conducted a surface casing vent flow check: 2005/03/31

08:00 hours.

Surface casing vent open previous 24:00 hours.

Continued.....

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card.



Page 2 of 2

Well Mame: DEVON ET AL KOTANEELEE L-38 License#:

1117

Event: ORIG COMPLETION

DAY#: 22

U.W.I.:

8:00 AM Operation:

NA 6665730. 22N 437588. 26E Zone: 10 Sect: L Rig Name:

Date: 2005/04/01

Bot Hole Loc:

Rig#;

RPT#: 20

Surface Loc.

Office Supervisor:

WARREN MACPHAIL

Well shut in and secured / all equipment rigged out and moved off location

24 Hour Summary: 24 Hour Forecast:

Well shut in and secured pending production tie in.

#### **OPERATIONS LAST 24 HOURS**

Completed static gradient survey, rigged out wireline and test units, moved off location

Attached a 12.7 mm o.d. hose to the surface casing vent. Immersed same 2.5 cm into a

container of clean, fresh water.

Monitored x 10 minutes. No bubbles noted.

Negative surface casing vent flow.

Final calculated load fluid remaining to recover = 1102.91 m3 (2005/03/26)

FINAL REPORT

Well is ready for production tie in.

Supervisor/Phone:

GEORGE GILES

(780) 835 - 1570

Calling Card: Printed: 2005/04/01 1:15:10 PM