

# NORTHLAND

Energy Corporation

Calgary: (403) 264-9700  
Red Deer: (403) 346-8840  
Grand Prairie: (403) 539-3411

## DAILY OPERATIONS SUMMARY

PAGE 1 OF 17

JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/05	
08:00	CONTINUED TO RIG IN
11:00	ORIENTATION MEETING
13:00	RIGGED UP WIRELINE
14:30	CONDUCTED SAFETY MEETING
15:00	RIGGED IN FLOWLINE TO BLEED OFF LUBRICATOR
16:00	RUN IN HOLE WITH GAUGE RING
16:30	UNABLE TO GET IN HOLE
22:00	RUN IN WITH IMPRESSION BLOCK / HANGING UP ON BOTTOM MASTER VALVE
24:00	RUN IN HOLE WITH NOGO DART
98/06/06	
02:15	OUT OF HOLE
02:50	RERUN NOGO DART
04:25	OUT OF HOLE WITH DART / UNABLE TO SHEAR OFF
04:50	RERUN NOGO DART
05:55	OUT OF HOLE
06:25	RUN IN WITH RECORDERS
07:46	RECORDERS ON BOTTOM AT 3252 cf
98/06/07	
15:55	BLEED OFF SURFACE CASING TO ZERO
15:56	BLEED OFF INTERMEDIATE CASING TO ZERO
98/06/08	
16:50	SAMPLE TAKEN FROM SURFACE CASING / ONE STOCK WATER
17:00	BLEED OFF WELLHEAD / RIGGED UP WIRELINE
17:15	RUN IN TO RECOVER RECORDERS / RUN STATIC GRADIENT ON THE WAY OUT
19:45	OUT OF HOLE / DOWNLOAD INFO.
20:05	RUN IN TO RETRIEVE DART



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JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotsneeeles  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/08	
21:15	OUT OF HOLE / CHANGE TOOLS AND RAMS
22:10	RUN IN FOR TEMPERATURE LOG
98/06/09	
03:30	OUT OF HOLE / RIGGED OFF LUBRICATOR
04:00	RIGGED OFF FLOWLINE / RIG PUMP LINE TO TUBING
04:20	PRESSURE TEST PUMPLINE AND WELLHEAD TO 35 MPa
04:30	STARTED TO PUMP CaCl <sub>2</sub> WATER DOWN TUBING
05:10	STOPPED PUMPING / 20 m <sup>3</sup> AWAY
05:25	PUMP 4 m <sup>3</sup> FRESH WATER
05:40	PUMP 5 m <sup>3</sup> PILL
05:50	PUMP 4 m <sup>3</sup> FRESH WATER
06:02	PUMP 13 m <sup>3</sup> CaCl <sub>2</sub> WATER
06:20	STOPPED PUMPING
09:35	BLEED CASING OFF TO 1400kPa / TAKE FLUID SAMPLE
10:15	RIG PUMP LINE TO PRODUCTION CASING
10:40	PRESSURE TEST PUMP LINE TO 14 MPa
10:45	PUMP FRESH WATER DOWN CASING TO 9500 kPa
11:00	OPENED UP PRODUCTION CASING TO BLEED OFF
13:15	SHUT IN CASING / RIG PUMP LINE TO TUBING
13:20	REOPEN CASING
13:30	PUMP 47 m <sup>3</sup> CaCl <sub>2</sub> DOWN TUBING
14:50	SHUT IN PRODUCTION CASING / RIG PUMP LINE TO PRODUCTION CASING
14:55	PRESSURE TEST PUMP LINE / STARTED TO PUMP DOWN CASING
15:15	STOPPED PUMPING
19:40	RIG OUT PUMP LINE
19:50	OPENED PRODUCTION CASING TO BLEED OFF



JOB: 3286A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneetee  
OPERATION: Re-completionLSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/09	
20:32	RIGGED UP WIRELINE LUBRICATOR / RIG UP PUMP LINE TO TUBING
20:48	RUN IN WITH GAUGE RING
21:00	SHUT IN CASING / MONITOR WELL
23:10	WIRELINE OUT OF HOLE
23:20	RIGGED FLOWLINE OFF OF CASING AND UP TO TUBING
23:25	BLEED OFF TUBING
23:30	RIGGED OFF FLOWLINE / RIGGED OFF LUBRICATOR
98/06/10	
02:55	RIGGED FLOWLINE TO PRODUCTION CASING
03:02	OPENED CASING TO BLEED OFF
04:02	SHUT IN
17:00	BLEED OFF PRODUCTION CASING
18:02	SHUT IN CASING
19:05	BLEED OFF PRODUCTION CASING / RIG PUMP LINE TO TUBING
19:25	PUMP DOWN TUBING
19:52	STOPPED PUMPING / RIGGED IN WIRELINE
20:10	CONDUCTED SAFETY MEETING
20:30	WIRELINE STARTED IN HOLE TO CUT TUBING
20:45	RIGGED FLOWLINE TO INTERMEDIATE CASING
20:50	FLOW INTERMEDIATE TO BLEED OFF
20:50	GAS SAMPLE & WATER SAMPLE TAKEN
21:30	SHUT IN INTERMEDIATE
21:55	CUT TUBING
22:03	WIRELINE STARTED OUT OF HOLE
22:28	RIGGED IN PUMP TO PRODUCTION CASING
22:35	WIRELINE OUT OF HOLE



JOB: 2826A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotsosotao  
OPERATION: Re-completionLSD: YTB-38  
ZONE: Mahanai

Time	Description
	98/08/10
23:05	RIGGED OFF WIRELINE
	98/08/11
00:40	BLEED OFF INTERMEDIATE CASING
00:50	PUMP 10 m <sup>3</sup> WATER DOWN PRODUCTION CASING
06:02	BLEED OFF INTERMEDIATE CASING
08:05	PUMP 10 m <sup>3</sup> WATER DOWN PRODUCTION CASING
08:40	RUN IN WIRELINE TO CUT TUBING
10:15	OUT OF HOLE GUNS DID NOT GO OFF
10:20	RUN IN WIRELINE TO CUT TUBING
12:00	OUT OF HOLE
12:25	BLEED OFF INTERMEDIATE CASING TO ZERO
13:00	PUMP 10 m <sup>3</sup> WATER DOWN PRODUCTION CASING
13:20	REMOVE WELLHEAD
13:20	RIG ON BOPS
17:00	FUNCTION TEST AND PRESSURE TEST
17:40	BLEED OFF PRODUCTION CASING AND INTERMEDIATE CASING
19:30	STARTED TO TRIP OUT OF HOLE WITH TUBING
20:10	SMALL GAS KICK UP TUBING / PUT ON STABBING VALVE
20:40	RIGGED UP TO CIRCULATE DOWN CASING UP TUBING
20:45	STARTED TO CIRCULATE AT .7 m <sup>3</sup> /MIN
20:50	BROKE CIRCULATION
21:55	OPENED 2" BYPASS AT MANIFOLD
22:50	PUMP OFF
22:55	SHUT IN AT MANIFOLD
	98/08/12
10:00	OUT OF HOLE



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Grand Prairie: (403) 535-3411

## DAILY OPERATIONS SUMMARY

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JOB

3086A

CUSTOMER

Anderson Exploration Ltd.

WELL

Columbia at al Kottanecoo

OPERATION

Re-completion

LSD YTB-38

ZONE Mahanni

Time	Description
hh:mm	
<b>98/06/12</b>	
10:15	RIGGED IN WIRELINE
10:30	RUN IN WITH GAUGE RING
13:35	FINISHED RUNNING IN WITH GAUGE RING
14:05	STARTED TO RUN IN WITH PLUG
15:05	PLUG SET AT 3250 m
15:10	STARTED TO PULL OUT OF HOLE
17:25	OUT OF HOLE RIG OFF WIRELINE
17:40	FILL HOLE FOR PRESSURE TEST .27 m <sup>3</sup> USED
17:55	PRESSURE TEST TO 10 mpa
19:50	BLEED OFF INTERMEDIATE CASING
22:10	TRIP IN HOLE WITH SCRAPER
<b>98/06/13</b>	
12:45	ON BOTTOM / CIRCULATE WELL TO RIG TANKS
14:30	LOCATION I-29 TANKS #1 64.48 m <sup>3</sup> #2 30.05 m <sup>3</sup>
14:50	STOPPED CIRCULATING / PREPARE TO TRIP OUT
15:15	STARTED TO TRIP OUT
20:01	OUT OF HOLE
20:20	RIGGED IN WIRELINE FOR TEMP / NOISE LOG
20:25	RUN IN HOLE
<b>98/06/14</b>	
05:25	OUT OF HOLE
05:35	BLEED OFF INTERMEDIATE AND SURFACE CASING
05:36	RUN IN HOLE FOR PRODUCTION LOG
06:00	FLUID SHIPPED (24hrs.) = 1.77 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL) = 66.27 m <sup>3</sup>
06:00	400BBL TANKS : TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>



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## DAILY OPERATIONS SUMMARY

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JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/14	
12:15	OUT OF HOLE / RIGGED OUT LEE TOOL WIRELINE / RIGGED IN ATLAS WIRELINE
12:35	SHUT IN INTERMEDIATE AND SURFACE CASING FOR BUILD-UP
13:20	RUN IN WITH WIRELINE / TO LOG HOLE
16:05	OUT OF HOLE / RIGGED OUT ATLAS WIRELINE
17:40	STARTED TO RUN IN WITH LEE TOOL / SCHLUMBERGER WIRELINE
98/06/15	
06:00	FLUID SHIPPED (24hrs.) = 0 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL) = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: #1=1.15 m <sup>3</sup> #2=1.46 m <sup>3</sup>
10:10	OUT OF HOLE / RIGGED OUT LEE TOOLS / WAITED ON INSTRUCTIONS
15:45	STARTED TO TRIP IN
22:55	FINISHED RUNNING IN
23:10	PICKED UP POWER SWIVEL
23:55	CIRCULATE HOLE TO RIG TANK / STARTED TO DRILL OUT PLUG
98/06/16	
01:30	GAS TO SURFACE / STOPPED DRILLING / CIRCULATE HOLE AND MONITOR
02:10	CONTINUED DRILLING
02:58	FINISHED DRILLING PLUG
03:30	RIGGED OUT POWER SWIVEL AND CONTINUE TO CIRCULATE
04:20	STOPPED CIRCULATING
04:40	STARTED TO TRIP OUT OF HOLE
06:00	FLUID SHIPPED (24hrs.) = 0 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL) = 76.07 m <sup>3</sup>
06:00	400BBL TANKS: #1=1.15 m <sup>3</sup> #2=1.46 m <sup>3</sup>
10:10	OUT OF HOLE
10:25	STARTED TO TRIP IN TO FISH



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JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/16	
15:30	ON BOTTOM RIG IN TOP DRIVE
16:07	STARTED TO CIRCULATE
16:50	RIGGED OUT TOP DRIVE / PREPARE TO TRIP OUT
17:40	STARTED TO TRIP OUT OF HOLE
23:50	OUT OF HOLE / NO FISH
98/06/17	
01:20	RUN IN HOLE
06:00	FLUID SHIPPED (24 hrs.) = 0 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL) = 66.27 m <sup>3</sup>
06:00	400 BBL. TANKS: #1=1.15 m <sup>3</sup> #2=1.46 m <sup>3</sup>
06:00	1-27 TANK FARM = #1=15.03 m <sup>3</sup> #2=41.22 m <sup>3</sup>
06:01	FINISHED RUNNING IN START TO CIRCULATE / CONTINUED TO FISH FOR PLUG
10:20	PICK UP TOP DRIVE TO CIRCULATE
10:40	STARTED TO CIRCULATE
11:20	STOPPED CIRCULATING / PREPARE TO TRIP OUT
12:30	STARTED TO TRIP OUT OF HOLE
20:25	STARTED TO RUN IN HOLE WITH TRASH BAIL
98/06/18	
02:02	ON BOTTOM / PICK UP POWER SWIVEL
02:35	DROPPED BAR
02:38	CIRCULATE HOLE
03:15	STOPPED CIRCULATING
04:49	STARTING PULLING OUT OF HOLE
06:00	FLUID SHIPPED (24 hrs.)=0 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL)=66.27 m <sup>3</sup>
06:00	400 BBL. TANKS:#1=1.15 m <sup>3</sup> #2=1.46 m <sup>3</sup>



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Grand Prairie: (403) 838-3411

## DAILY OPERATIONS SUMMARY

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JOB: 3285A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotassee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Mahanal

Time	Description
hh:mm	
98/06/18	
06:00	1-27 TANK FARM=#1=15.03 m <sup>3</sup> #2=41.22 m <sup>3</sup>
10:50	OUT OF HOLE / CHANGE B.H.A
12:10	STARTED TO RUN IN WITH MILLING BIT AND OVERSHOT
18:20	FINISHED RUNNING IN HOLE
20:37	REMOVE POWER SWIVEL
22:20	STARTED OUT OF HOLE
98/06/19	
02:30	OUT OF HOLE / CHANGE TOOLS
03:40	STARTED TO RUN IN HOLE
06:00	FLUID SHIPPED (24hrs.)=0 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL)=66.27 m <sup>3</sup>
06:00	400 BBL. TANKS: #1=1.15 m <sup>3</sup> #2=1.46 m <sup>3</sup>
06:00	1-27 TANK FARM: #1=15.03 m <sup>3</sup> #2=41.22 m <sup>3</sup>
08:12	FINISHED RUNNING IN START TO FISH
08:37	STARTED TO TRIP OUT OF HOLE
14:45	FINISHED TRIPPING OUT DRILLSTRING / RIGGED OUT OVERSHOT
15:35	TRIP OUT RECOVERED TUBING
16:45	OUT OF HOLE
20:10	RUN IN HOLE TO WASH OVER PACKER
22:30	PUMP PILL
98/06/20	
03:55	FINISHED RUNNING IN HOLE
05:05	STARTED TO CIRCULATE
06:00	TOTAL FLUID SHIPPED (24hrs)=0.00 m <sup>3</sup>
06:00	FLUID SHIPPED (TOTAL)=66.27 m <sup>3</sup>
06:00	400bbl. TANKS #1-1.15 m <sup>3</sup> #2-1.46 m <sup>3</sup>



JOB: 3286A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneetoo  
OPERATION: Re-completionLSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
<b>98/06/20</b>	
06:00	I-27 TANK FARM #1-15.03 #2-41.22
06:15	STARTED TO DRILL
11:15	TRIP OUT OF HOLE
19:00	OUT OF THE HOLE
20:25	STARTED TO TRIP IN TO FISH
<b>98/06/21</b>	
01:30	ON BOTTOM / STARTED TO FISH
02:26	STARTED TO TRIP OUT
06:00	TOTAL FLUID SHIPPED =66.27 m <sup>3</sup>
06:00	400bbl TANKS TK-1=1.15 m <sup>3</sup> TK2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM TK-1=15.03 m <sup>3</sup> TK-2=41.22 m <sup>3</sup>
10:55	OUT OF HOLE
13:30	STARTED TO RUN IN HOLE
14:00	I-27 TANK FARM TK-1=15.03 m <sup>3</sup> TK-2=60.73 m <sup>3</sup>
20:25	FINISHED RUNNING IN PICK UP TOP DRIVE
<b>98/06/22</b>	
00:10	STARTED TO DRILL
01:49	RIGGED OUT TOP DRIVE / STARTED TO TRIP OUT
06:00	TOTAL FLUID SHIPPED 66.27 m <sup>3</sup>
06:00	400bbl TANKS TK--1=1.15 m <sup>3</sup> TK-2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM TK-1=3.97 TK-2=23.27
06:00	TOTAL FLUID SHIPPED FROM I-27 TANK FARM (24hrs) 48.52 m <sup>3</sup>
06:35	OUT OF HOLE
07:05	RUN IN WIRELINE
09:45	WIRELINE OUT OF HOLE
10:15	WAITING ON INSTRUCTIONS



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## DAILY OPERATIONS SUMMARY

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JOB: 3285A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotamocote  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
<b>98/06/22</b>	
13:45	RUN IN HOLE
19:31	FINISHED RUNNING IN RIG IN TOP DRIVE
20:25	STARTED TO DRILL
22:47	RIGGED OUT TOP DRIVE / STARTED TO TRIP OUT
<b>98/06/23</b>	
05:01	OUT OF HOLE
06:00	TOTAL FLUID SHIPPED 66.27 m <sup>3</sup>
06:00	400bbl TANKS TK-1=1.15 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
06:00	I-27 TANK FARM TK-1=3.97 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
06:30	STARTED TO TRIP IN
12:30	STARTED TO DRILL
16:30	CIRCULATE DOWN CASING TO FREE FISH
23:00	RIGGED OUT TOP DRIVE START TO JAR
<b>98/06/24</b>	
06:00	TOTAL FLUID SHIPPED 66.27 m <sup>3</sup>
06:00	400bbl TANKS TK-1=1.15 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
06:00	I-27 TANK FARM TK-1=3.97 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
13:15	RIGGED IN WIRELINE
20:22	RIGGED OUT WIRELINE
22:00	STARTED TRIPPING OUT OF HOLE
<b>98/06/25</b>	
02:55	OUT OF THE HOLE
03:00	WAITED ON JARS
06:00	TOTAL FLUID SHIPPED 66.27 m <sup>3</sup>
06:00	400bbl TANKS TK-1=1.15 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
06:00	I-27 TANK FARM TK-1=3.97 TK-2=23.27 m <sup>3</sup>



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## DAILY OPERATIONS SUMMARY

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JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
<b>98/06/25</b>	
13:30	STARTED TO TRIP IN HOLE
19:00	FINISHED RUNNING IN HOLE / RIGGED IN POWER SWIVEL
21:05	STARTED MILLING
<b>98/06/26</b>	
01:10	RIGGED OUT POWER SWIVEL
02:00	STARTED TO TRIP OUT
06:00	TOTAL FLUID SHIPPED 66.27 m <sup>3</sup>
06:00	400bbl TANKS TK-1=1.15 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
06:00	I-27 TANK FARM TK-1=3.97 m <sup>3</sup> TK-2=23.27 m <sup>3</sup>
07:15	OUT OF HOLE
08:30	STARTED TO TRIP IN THE HOLE
13:20	FINISHED RUNNING IN THE HOLE / STARTED TO JAR
<b>98/06/27</b>	
00:45	STARTED OUT OF HOLE
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: #1=1.15 m <sup>3</sup> #2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: #1=3.97 m <sup>3</sup> #2=23.27 m <sup>3</sup>
07:10	RUN IN HOLE
16:00	IN THE HOLE
19:25	RIGGED UP WIRELINE
19:35	WIRELINE RUN IN HOLE
21:05	WIRELINE OUT OF HOLE
23:45	STARTED TO TRIP OUT OF HOLE
<b>98/06/28</b>	
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>



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## DAILY OPERATIONS SUMMARY

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JOB: 3285A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesice  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/28	
06:00	I-27 TANK FARM: TK#1=3.97 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
09:10	OUT OF HOLE
10:10	RIGGED IN WIRELINE
15:20	RIGGED OUT WIRELINE
16:15	RUN IN HOLE
22:02	ON BOTTOM
22:30	PICK UP POWER SWIVEL
23:05	CIRCULATE HOLE
23:35	LOST CIRCULATION / STOP PUMP / MIX LCM
98/06/29	
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=3.97 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
08:10	PUMP DOWN TUBING
10:10	STARTED TO MILL
98/06/30	
02:05	LAY DOWN SWIVEL
03:15	STARTED TO TRIP OUT OF HOLE
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=13.77 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
08:45	OUT OF HOLE
09:15	RUN IN HOLE
13:45	SHUT DOWN TO FIX HYDROMATIC
21:10	ON BOTTOM / PICK UP SWIVEL
21:45	CIRCULATE / STARTED TO MILL



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## DAILY OPERATIONS SUMMARY

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JOB: 3265A  
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WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/06/30	
98/07/01	
02:00	STOPPED MILLING / CONTINUED TO CIRCULATE
02:15	MAKE CONNECTION / CONTINUED TO MILL
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=13.77 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
23:00	STOPPED CIRCULATING / LAY DOWN SWIVEL
23:50	STARTED TO TRIP OUT OF HOLE
98/07/02	
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=13.77 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
06:02	OUT OF HOLE
06:30	RIGGED UP WIRELINE
09:45	RIGGED OUT WIRELINE
10:20	RUN IN THE HOLE
16:45	IN THE HOLE
16:50	RIGGED UP SWIVEL
17:50	STARTED TO MILL
98/07/03	
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=13.77 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
08:50	STARTED TO TRIP OUT OF HOLE
14:50	OUT OF HOLE
15:45	STARTED TO TRIP IN HOLE



# NORTHLAND

Energy Corporation

Calgary: (403) 264-9700  
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Grand Prairie: (403) 539-3411

## DAILY OPERATIONS SUMMARY

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JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/07/03	
21:30	ON BOTTOM
22:10	PICK UP SWIVEL / STARTED TO CIRCULATE
22:30	STARTED TO MILL
98/07/04	
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=13.77 m <sup>3</sup> TK#2=23.27 m <sup>3</sup>
13:30	RIGGED OUT SWIVEL
13:55	STARTED TO TRIP OUT OF HOLE
19:50	ON SURFACE
19:55	RIGGED UP WIRELINE
20:05	RUN IN WITH GAMMA RAY
21:30	OPENED INTERMEDIATE TO BLEED OFF
21:50	WIRELINE OUT OF HOLE
21:58	RUN IN WITH IMPRESSION BLOCK
23:30	WIRELINE OUT OF HOLE
23:45	RUN IN WITH JUNK BASKET
98/07/05	
01:50	WIRELINE OUT OF HOLE / RIGGED OFF
02:30	RUN IN WITH SCRAPER
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	I-27 TANK FARM: TK#1=21.39 m <sup>3</sup> TK#2=31.72 m <sup>3</sup>
07:50	IN THE HOLE
08:05	STARTED TO CIRCULATE
11:01	STOPPED CIRCULATING / STARTED TO TRIP OUT OF HOLE



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## DAILY OPERATIONS SUMMARY

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JOB: 3286A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneelas  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/07/05	
17:30	OUT OF HOLE
17:45	RIG UP ATLAS WIRELINE
20:15	WIRELINE OUT OF HOLE / RIG OFF
20:40	RIG UP SCHLUMBERGER
21:12	RUN IN WITH USIT TOOL
98/07/06	
01:35	PRESSURE INTERMEDIATE CASING UP TO 3500 kPa
01:45	WIRELINE OUT OF HOLE
02:20	RUN IN WITH BRIDGE PLUG
04:30	LANDED BRIDGE PLUG AT 3530 m
05:05	TRICKLE FEED CASING TO FILL
05:10	WIRELINE OUT OF HOLE
05:35	PRESSURE TEST PLUG TO 7000 kPa
06:00	TOTAL FLUID SHIPPED = 66.27 m <sup>3</sup>
06:00	400BBL TANKS: TK#1=1.15 m <sup>3</sup> TK#2=1.46 m <sup>3</sup>
06:00	1-27 TANK FARM: TK#1=21.39 m <sup>3</sup> TK#2=31.72 m <sup>3</sup>
08:20	BLEED OFF INTERMEDIATE
10:20	RIG OUT WIRELINE
10:40	PRESSURE UP INTERMEDIATE TO 5 mpa
11:00	OPENED AT MANIFOLD ON 19.05 mm
11:15	SHUT IN AT MANIFOLD
11:20	PRESSURE UP INTERMEDIATE TO 5 mpa
11:30	OPENED AT MANIFOLD ON 19.05 mm
11:45	SHUT IN AT MANIFOLD
11:50	PRESSURE UP INTERMEDIATE TO 7 mpa
12:00	OPENED AT MANIFOLD ON 19.05 mm



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## DAILY OPERATIONS SUMMARY

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JOB: 3265A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kozmines  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/07/06	
12:15	SHUT IN AT MANIFOLD
12:16	PRESSURE UP INTERMEDIATE TO 10 mpa
12:30	OPENED AT MANIFOLD ON 19.05 mm
12:45	SHUT IN AT MANIFOLD
13:10	PRESSURE UP INTERMEDIATE TO 14 mpa
13:40	PRESSURE UP INTERMEDIATE TO 14 mpa
14:02	OPENED AT MANIFOLD ON 19.05 mm
15:40	OPENED TO ATMOSPHERE FROM MANIFOLD
18:00	H <sub>2</sub> S 0 ppm
98/07/08	
07:30	PRESSURE ON INTERMEDIATE CASING
07:35	RIGGED UP FLOWLINE
08:00	PRESSURE TEST FLOWLINE TO 3 mpa
08:01	STARTED TO CIRCULATE INTERMEDIATE
09:10	STOPPED CIRCULATING
09:20	SHUT IN AT MANIFOLD
11:10	SAFETY MEETING
11:30	STARTED TO PULL 7" CASING
19:00	TOTAL FLUID SHIPPED 115.0 m <sup>3</sup>
19:00	400BBL TANKS TK#1=1.15 m <sup>3</sup> TK#2=6.78 m <sup>3</sup>
98/07/09	
00:01	RIGGED UP WIRELINE TO LOG HOLE
98/07/10	
09:50	CIRCULATE HOLE
10:35	CONDUCTED SAFETY MEETING
11:00	STARTED CEMENT JOB



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## DAILY OPERATIONS SUMMARY

PAGE 17 OF 17

JOB: 3285A  
CUSTOMER: Anderson Exploration Ltd.  
WELL: Columbia et al Kotaneesee  
OPERATION: Re-completion

LSD: YTB-38  
ZONE: Nahanni

Time	Description
hh:mm	
98/07/10	
17:45	CEMENT JOB COMPLETE