



Daily Activity and Cost Summary

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Job Category Drilling	Primary Job Type Drilling - original	Secondary Job Type	Status 1 Completed
Start Date 17/09/2012	End Date 15/10/2012	AFE Number	Total AFE + Supp Amount (Cost)

Objective
Calibrate seismic data with zones of interests being the Permian Junk Creek and Blackie.

Summary
Well drilled to 995mTD

Contractor	Rig Number	Rig Type
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Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary
1.0	19/09/2012	20/09/2012			<p>Morning Tour Notes: FUNCTION CROWN SAVER SET HIGH AND LOW LIMITS VISUAL INSPECTION OF DRAWWORKS AND BRAKE ASSEMBLY REVIEW JSA ON LAY DOWN BHA</p> <p>Day Tour Notes: crew hand over safety meeting revised jsa on laying down collars and procedures lay out bha and 8" collar CLEAN FLOOR PREP TO RUN CONDUCTOR CSG PRE JOB MEETING RIG UP POWER TONG HANDS TOOLS,RIG UP TONG TOOLS SAFETY MEETING WITH CREW AND TONG HAND ON RUNNING CASING RUN IN CASING RIG OUT POWER TONGS RIG UP CIRC HEAD AND CIRCULATE SAFETY MEETING</p> <p>Evening Tour Notes: VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM FUNCTION CROWN SAVER AND SET HIGH AND LOW LIMITS DRILLERS WALK AROUND= OK REVIEW JSA ON PICKING UP DIVERTER</p>
2.0	20/09/2012	21/09/2012			<p>Morning Tour Notes: FUNCTION CROWN SAVER AND SET HIGH AND LOW POINT VISUAL INSPECTION OF DRAWWORKS AND BRAKE ASSEMBLY DRILLERS WALK AROUND= OK REVIEW JSA ON LIFTING FLOW LINE</p> <p>Day Tour Notes: CREW SAFETY MEETING TOPIC INSTALLING FLOW NIPPLE AND TAKING IT OUT VISUALY INPECT BRAKES,FUNCTION CROW SAVER,SET UPPER,LOWER LIMIT PRE DRILL OUT WALK AROUND FUNCTION TEST ACCUMILATOR</p> <p>Evening Tour Notes: VISUAL INSPECTION OF DRWORKS AND BRAKE SYSTEM FUNCTION CROWN SAVER AND SET HIGH AND LOW LIMIT REVIEW JSA ON PICKING UP DRILL COLLARS TAG CEMENT @ 16.5M</p>
3.0	21/09/2012	22/09/2012			<p>Morning Tour Notes: SET HIGH AND LOW LIMIT VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM REVIEW JSA ON MAKING A CONNECTION</p> <p>Day Tour Notes: CREW HAND OVER MEETING FUNCTION CROWN SAVER,INSPECT BRAKES INSPECT STABBING VAVLE INSPECT IBOP VALVE SAFETY MEETING ON MAKING A CONNECTION WITH COLLARS</p> <p>Evening Tour Notes: SET HIGH AND LOW LIMIT VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM REVIEW JSA ON MIXING MUD</p>



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Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary
4.0	22/09/2012	23/09/2012			No Accident. No Incidents Continue to run in hole. Drill 311 mm hole F/68 -115m. Trip out of hole due to losses. large mud rings seen. Condition mud with LCM. Wash down LCM plug with bit F/10 - 116m.
5.0	23/09/2012	24/09/2012			Fluid losses continue to occur, Continue to condition mud and circulate. Trip out of hole and prepare for cementing to seal off regions of losses. Discussion between Calgary and field staff conclude that drilling ahead with large quantities of LCM is the best approach to moving forward. pick up and make up BHA and RIH. Drill ahead 311.2 mm surface hole F/116 - 164m. Rig malfunction causes loss of control of the PLC. Rig maintenance started.
6.0	24/09/2012	25/09/2012			No accident or incidents. Continue to trouble shoot top drive. Rig service and oil swivel. Drill 311mm hole ahead F/164 - 261m. POOH. few instances of overpull reaching 10kDaN. Loose mud ring around the bit sub. Wash bit and strap string prior to RIH. Ream F/120 - 170m
7.0	25/09/2012	26/09/2012			No accident or incidents continued to ream F/170m - 261m. Drill 311 mm hole F/261 - 273 m. Surface hole TD reached. POOH and run 2 suites of logs. level rig. Run 244.5 mm casing F/0 - 79m.
8.0	26/09/2012	27/09/2012			No accident or incidents Run casing F/79m - 270m. Condition mud and circulate. Rig in cementers. Cement surface casing and flush BOP plug down at 9:15. Wait on cement. Nippled down diverter system. Cut casing and conductor. Visible that cement has fallen 5.2m. rig in cementers for top cement job. wait on cement.
9.0	27/09/2012	28/09/2012			Continue to WOC. Cut conductor casing and weld on bowl. Nipple up BOP's and pressure test.
10.0	28/09/2012	29/09/2012			Continue to pressure test the BOP's and fill lines with glycol. Pick up BHA and RIH with 222mm Smith FHi18B (447X) insert bit, bit sub, 2x monel drill collars, 2x drill collars, jars, 8x drill collars, X/O sub, and drill pipe. Shallow test MWD survey probe and slip & cut at 160m. Continue to RIH. Tag cement at 258m. Hold BOP drill and hazard hunt. Drill out float, cement, and shoe to 274m. Displace the hole to gel/polymer mud and continue to drill to 278m. Circulate the hole clean. Perform FLOT and achieved requested maximum ASP of 6000kPa (LOG = 32.38 kPa/m). Continue to drill 222mm main hole section from 278m to 357m. Average ROP = 8.4m/hr. Needed to run two 50 mesh screens on the front and one 84 mesh screen on the back of the shaker as it could not keep fluid on at a 1.2m ³ /min flow rate with all 84 mesh screens on.
11.0	29/09/2012	30/09/2012			Continue to drill 222mm main hole section from 357m to 585m. Average ROP = 9.67m/hr.
12.0	30/09/2012	01/10/2012			Continue to drill 222mm main hole section from 585m to 739m. Average ROP = 8.59m/hr. Reduced RPM at 680m due to chert pebbles/layers, quartz, pyrite, and sandstone found in the 680m to 710m samples. Played with WOB and rotary as drilling became rough and the drill string was bouncing.
13.0	01/10/2012	02/10/2012			Continue to drill 222mm main hole section from 739m to 827m. Average ROP = 4m/hr. Continued to drill with a reduced RPM due to chert pebbles/layers, pyrite, and sandstone being found in the samples. Continued to play with WOB and rotary as drilling was periodically rough and the drill string was bouncing. Raised the front of the shale shaker with 2 1/2" blocks and were able to put all 175 screens on which will aid in weight control. Also dumped and diluted 13m ³ of mud.



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Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary
14.0	02/10/2012	03/10/2012			Continue to drill 222mm main hole section from 827m to 832m. Experienced torque and a reduction in ROP. Circulated hole clean and POOH for bit. Backreamed from 574m to 349m where large clay balls and cubes of shale came across the shaker (minor amount of splinters). Experienced overtorqued drill pipe connections from 420m to 281m and had to use two snatch blocks with the winch line to aid in breaking them. Bit #2 grade: 1/2/BT/M/E/1/BU/TQ. Pick up bit #3 and RIH with 222mm Smith FHi21B (517X) insert bit, bit sub, shock sub, 2x monel drill collars, 2x drill collars, jars, 8x drill collars, X/O sub, and drill pipe. Wash & clean from 350m to 685m. Ream 685m to 705m.
15.0	03/10/2012	04/10/2012			RIH with bit #3. Continue to ream from 705m to 740m. Wash to bottom from 740m to 832m with 0.5m of fill on bottom. Pattern bit and continue to drill 222mm main hole from 832m to 864m. Circulate up bottom hole sample and POOH to 811m. Relog back to bottom at 150m/hr for geology. Trip out Relog out from 864m to 824m & back in from 824m to 864m Circulate check logs. Continue to drill ahead from 864m to 866m. Average ROP = 2.31m/hr. Dumped and diluted 25m ³ which brought the weight down to 1150 kg/m ³ .
16.0	04/10/2012	05/10/2012			Continue to drill ahead from 866m to 892.50m. Average ROP = 3.3m/hr. Circulate up sample to analyze. Geology called core point in the Blackie formation at 892.50m. Rig up to and POOH. Tight sections between 610m to 510m but didn't require pump or rotary. Continue to POOH with required flow checks. Handle slick BHA. Change out top drive extend ram. Pick up 18m core barrel with aluminum sleeves. RIH and fill pipe at the shoe, 273m, RIH to 575m Wash through bridge, RIH to 705m
17.0	05/10/2012	06/10/2012			Continue to RIH with coring assembly from 705m. Bridge at 879m. Wash and clean to bottom (3m of fill). Circulate hole clean, drop ball, and cut core from 892.5m to 910.5m. Circulate up bottom hole sample and POOH to retrieve core. Hold safety meeting prior to retrieving core, some LEL's present but no H2S when at surface. Lay out core barrels and pull out aluminum sleeves. Analyze core with Terratek. Put core barrels back together and lay out to be shipped off location. Pick up slick BHA, bit #3RR, and RIH with 222mm Smith FHi21B (517X) insert bit, bit sub, shock sub, 3x drill collars, jars, 7x drill collars, X/O sub, and drill pipe. to 151m Held BOP drills and performed weekly accumulator function test. RIH to 445m fill pipe & flow check RIH ream bridge @552m to 560m RIH to 828m wash & ream to 892m
18.0	06/10/2012	07/10/2012			Drill out rathole from 892.50m to 910.50m and continue to drill 222mm main hole from 910.50m to TD at 955m. Average ROP = 2.60m/hr. Increase viscosity to 75sec/L for logging. Wiper trip to 610m
19.0	07/10/2012	08/10/2012			Wiper trip, tight at 565m to 500m (swabbing). Circulate bottom's up, continue out to the casing shoe. RIH, wash to bottom (2m of fill). Circulate, clean hole, and condition mud to 100 sec/L for logging. POOH to log with no hole problems. Blow out mud lines with air. Clean floor. Log with Schlumberger. Logs tagged bottom at 955m at 14:30 hrs run log #2 tagged btm at 19:35 hrs tight at 637m stuck work free finish logging run #2 lay down tools to RIH clean out trip Logging Run #1: AIT-PEX-HNGS-PPC-TLD Logging Run #2: FMI-DSI-PPC-PPC
20.0	08/10/2012	09/10/2012			Lay down logging tools and rig out loggers. Make up bit # 3RR, RIH with clean out BHA. Break circulation at 505m. Wash from 634m to 646m. Continue to RIH to 815m. Troubleshoot drawworks and change relay. RIH to bottom. Circulate, clean hole, and condition mud. POOH to log. Clean floor and rig in loggers for final run #3 (CMR-PPC). DST intervals from logs [1] 929m to 939m, [2] 894m to 904m. [3] 485m to 508m. Rig out loggers and rig in drill stem testers unload tools on catwalk. Wait on orders. Interval for DST



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Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary
21.0	09/10/2012	10/10/2012			<p>Pick up drill stem test tools and RIH. Hold safety meeting, function test flare igniter, blow test lines with air to check for obstruction, pressure test DST chik-sans and manifold. Attempt to inflate packers with rotary table (put auxiliary hydraulic pump online to help increase rotary table speed, but still not enough). Rig out test head and lay down bail extensions. Install topdrive and rotate to set packers. Lined up to test through topdrive and 4" standpipe to the testing manifold then through the test lines. Pull test to confirm packer seat.</p> <p>Test interval #1 (929m - 939m): Open tool for 10 minutes with 650kPa recorded pressure, increased to 700kPa, close tool, monitor for 45 minutes with no build up. Release packers and pull up to next interval.</p> <p>Test interval #2 (894.5m - 904.5m): Could not inflate the packers. Worked string and attempted numerous times. Attempted to inflate up 1m, down 1m, and down again 3m from original interval for 15 minutes each with no success. The decision was made to POOH and check the packer inflating screen and pump and try again at test interval #3 on the way out.</p> <p>Test interval #3 (487.5m - 497.5m): Attempted to inflate packers here with out success. Continued to POOH to check the packer inflating screen and pump. 48m of drilling mud above test tools catch samples</p>
22.0	10/10/2012	11/10/2012			<p>Trip out test tools & service recover recorders lay down test tools. Make up bit #3RR trip in hole clean out trip to 150m. Slip & cut drilling line. RIH to 477m break circulation. RIH to 955m Circulate condition mud bring vis to 80 sec/L. Pump pill & hoist to run test tools. Make up DST #2 RIH to 891m head up DST #2 Inflate packers test Interval 894.5m to 904.5m Open 10 min close 1 hr open 30 min close 30 min</p>
23.0	11/10/2012	12/10/2012			<p>Perform drill stem tests.</p> <p>Test interval #2 (894.50m to 904.50m): Inflate packers, open interval for 10 minutes, shut in for 1 hour (built to 1100kPa), open again for 30 minutes, shut in for 30 minutes (built to 380kPa). Deflate packers and pull up to the next interval.</p> <p>Test interval #3 (497.50m to 497.50m): Inflate packers, pressured up to 11,450kPa, set down weight to open tool and packers slipped releasing the pressure, deflate and reposition numerous times without success. The decision was made to POOH to inspect the DST packers.</p> <p>When POOH, the well did not take the calculated hole fill volume and swabbed periodically. RIH to the surface casing shoe and continued to ensure that the hole was full. There was excessive drag going up and/or down. The last three stands pipe going down indicated accurate string weight. Worked pipe at the shoe to determine if the packer was folded/damaged and if it was still obstructing the annulus (but no hole drag experienced). POOH and lay down DST tools with accurate hole fill volume. Handle DST tools, the bottom packer was torn and missing a chunk of rubber on the lower portion. Change out packer rubber element. Lay down tools.</p> <p>RIH with bit #3RR and slick BHA to circulate and clean the hole as a precaution. RIH to 379m ream bridge 379m to 385m wash ream in hole 385m to 504m chase packer rubber to btm</p>
24.0	12/10/2012	13/10/2012			<p>Circulate at 504m and monitor bottom's up (no gas but plenty of cuttings). Wash to 660m. Continue to RIH to 942m, Wash/ream to 952m where obstruction (packer rubber) was encountered and experienced torque and increase in pressure. Circulate the hole clean at 952m and condition mud (285 gas units on bottom's up). POOH to run DST #3.</p> <p>Pick up DST tools and RIH. Perform BOP drills and weekly accumulator function test. Continue to RIH to the final test interval. Tight closer to the test interval, had to work the string up and down until able to move freely and achieve the desired test depth.</p> <p>Test interval #3 (489m to 499m): Inflate packers, pull test, open tool for 10 minutes, shut in for 45 minutes, initial shut in pressure 1068kPa built to 1850kPa, open for 30 minutes, close for 1 hour and built to 1850kPa. Open for 17 minutes, close for 12 minutes and built to 1816kPa. Deflate packers and POOH to 54m. Fluid at top of drill collars (128m above tools) take fluid samples (drilling mud).</p>



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Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary
25.0	13/10/2012	14/10/2012			<p>Trip out from 54m to tools. Handle DST tools and take fluid samples, clean, service, and lay down tools. Clean rig floor. RIH with bit #3RR and slick BHA to clean the hole and condition mud.</p> <p>Wash/ream from 495m to 607m. RIH and tag at 947m (8m of fill). Ream to bottom, circulate and condition mud. Pump pill, blow out mud lines, and POOH. to 570m. to 500m tight circulate & back ream to 882m wash back in to 570m. circulate btms up, trip out to 315m</p>
26.0	14/10/2012	15/10/2012			<p>Trip out from 315m to surface. Rig to and run 70x joints of 177.8mm x 43.16kg/m L-80 LT&C production casing with float shoe, float collar, and 30x semi-rigid centralizers with 3x stop collars. Total length = 956.64m.</p> <p>Tag bottom at 955m (1.5m of fill), circulate and condition mud. Install wiper plug, cement head, and lines. Pump 1m³ of fresh water preflush ahead, stop pump, close valve, and pressure test lines to 21MPa. Bleed off and open valve. Continue to pump 2m³ of scavenger preflush at 1300kg/m³ followed by 14m³ (13 tonnes) of Lead HalCem 'G' + 1.6% Halliburton Gel + 0.5% Halad 344 + 0.7% CaCl₂ + 4% Econolite at 1665kg/m³ followed by 10.7m³ (14.1 tonnes) of Tail HalCem 'G' + 0.5% Halad 567 at 1895kg/m³. Stop pump, drop top plug, and displace casing with 18.3m³ of fresh water. Bump plug 10,000kPa over final circulating pressure. Pressure test casing to 21,000kPa for 10 minutes, bleed off and test floats (holding). Received 3m³ of good cement returns to surface. Flush BOP stack and rig out cementers.</p> <p>Remove flow nipple, nipple down BOP's & wash out. Clean mud tanks.</p>
27.0	15/10/2012	16/10/2012			<p>Nipple down BOPs and raise. Clean out inside the casing bowl and install manual casing slips. Hang the production casing in tension (30,000daN). Cut casing and remove. Lay down BOP's. Pick up 8 singles with closed stabbing valve to displace hole to 20m below surface lay down singles. Dress csg install seal assembly & well head. Rig released @ 12:00 hrs. Oct 15 2012. Tear out rig Clean mud tanks.</p>



Casing Summary

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Conductor, 26.00mKB											
Set Depth (mKB) 26.00		Set Tension (daN)			String Nominal OD (mm) 339.7		String Min Drift (mm) 319.0		Centralizers		Scratchers
Jts	Item Des	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top Thread	Top (mKB)	Btm (mKB)	Len (m)	P Burst (kPa)	P Collapse (kPa)
2	Casing Joints	339.7	323.0	71.432	H-40	ST&C	4.23	26.00	21.77		5,102

Surface, 273.00mKB											
Set Depth (mKB) 273.00		Set Tension (daN)			String Nominal OD (mm) 244.5		String Min Drift (mm) 222.6		Centralizers 12x Bow Spring Centralizers		Scratchers n/a
Jts	Item Des	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top Thread	Top (mKB)	Btm (mKB)	Len (m)	P Burst (kPa)	P Collapse (kPa)
21	Casing Joints	244.5	226.6	53.574	J-55	LT&C	4.25	258.67	254.42	24,270	13,927
1	Float Collar	244.5	226.6	53.570	J-55	LT&C	258.67	259.16	0.49		
1	Casing Joints	244.5	226.6	53.574	J-55	LT&C	259.16	272.45	13.29	24,270	13,927
1	Float Shoe	244.5	226.6	53.570	J-55	LT&C	272.45	273.00	0.55		

Production, 955.00mKB											
Set Depth (mKB) 955.00		Set Tension (daN) 30,000.0			String Nominal OD (mm) 177.8		String Min Drift (mm)		Centralizers 30x Semi-rigid Centralizers		Scratchers n/a
Jts	Item Des	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Top Thread	Top (mKB)	Btm (mKB)	Len (m)	P Burst (kPa)	P Collapse (kPa)
69	Casing Joints	177.8	157.1	43.157	L-80	LT&C	4.32	940.26	935.94	56,260	48,401
1	Float Collar	177.8	157.1	43.157	L-80	LT&C	940.26	940.69	0.43		48,401
1	Casing Joints	177.8	157.1	43.157	L-80	LT&C	940.69	954.50	13.81	56,260	48,401
1	Float Shoe	177.8	157.1	43.157	L-80	LT&C	954.50	955.00	0.50		48,401



Casing

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Conductor

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Wellbore					
Wellbore Name Original Hole				Kick Off Depth (mKB)	
Section Des	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Conductor	444.5	4.91	26.00	19/09/2012	19/09/2012

Wellhead					
Type Casing head WFT-22	Install Date 26/09/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
279.4mm - 20.7MPa x 244.5mm Slip On Weld	Weatherford	Type WFT-22	612068	20,700	
Type Tubing Bonnet Assemb	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
179.4mm X 52.4mm Studded up	Weatherford	Type B5T	615635		
Type Tubing Hanger Assemb	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
179.4mm x 60.3mm EUE Lift x Suspension threads	Weatherford	Type H5G	612979		
Type Tubing Spool Assembl	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
279.4mm, 179.4mm x2, 52.4mm studded side outlets	WEATHERFORD	Type B	612044		

Casing					
Casing Description Conductor	Set Depth (mKB) 26.00	Run Date 19/09/2012	Set Tension (daN)		
Centralizers	Scratchers				

Casing Components												
Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN•m)	Class	Max OD (mm)	ID (mm)
Casing Joints	339.7	71.432	H-40	ST&C	2	21.77	4.23	26.00	4,370			323.0



Casing

Surface

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

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Wellbore					
Wellbore Name Original Hole				Kick Off Depth (mKB)	
Section Des	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Conductor	444.5	4.91	26.00	19/09/2012	19/09/2012
Surface	311.2	26.00	273.00	20/09/2012	25/09/2012

Wellhead					
Type Casing head WFT-22	Install Date 26/09/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
279.4mm - 20.7MPa x 244.5mm Slip On Weld	Weatherford	Type WFT-22	612068	20,700	
Type Tubing Bonnet Assemb	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
179.4mm X 52.4mm Studded up	Weatherford	Type B5T	615635		
Type Tubing Hanger Assemb	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
179.4mm x 60.3mm EUE Lift x Suspension threads	Weatherford	Type H5G	612979		
Type Tubing Spool Assembl	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
279.4mm, 179.4mm x2, 52.4mm studded side outlets	WEATHERFORD	Type B	612044		

Casing					
Casing Description Surface	Set Depth (mKB) 273.00	Run Date 26/09/2012	Set Tension (daN)		
Centralizers 12x Bow Spring Centralizers	Scratchers n/a				

Casing Components												
Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN*m)	Class	Max OD (mm)	ID (mm)
Casing Joints	244.5	53.574	J-55	LT&C	21	254.42	4.25	258.67	6,140	new		226.6
Float Collar	244.5	53.570	J-55	LT&C	1	0.49	258.67	259.16	6,140	new		226.6
Casing Joints	244.5	53.574	J-55	LT&C	1	13.29	259.16	272.45	6,140	new		226.6
Float Shoe	244.5	53.570	J-55	LT&C	1	0.55	272.45	273.00	6,140	new		226.6



Casing

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Production

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Wellbore					
Wellbore Name Original Hole				Kick Off Depth (mKB)	
Section Des	Size (mm)	Act Top (mKB)	Act Btm (mKB)	Start Date	End Date
Conductor	444.5	4.91	26.00	19/09/2012	19/09/2012
Surface	311.2	26.00	273.00	20/09/2012	25/09/2012
Production	222.0	273.00	955.00	28/09/2012	06/10/2012

Wellhead					
Type Casing head WFT-22	Install Date 26/09/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
279.4mm - 20.7MPa x 244.5mm Slip On Weld	Weatherford	Type WFT-22	612068	20,700	
Type Tubing Bonnet Assemb	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
179.4mm X 52.4mm Studded up	Weatherford	Type B5T	615635		
Type Tubing Hanger Assemb	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
179.4mm x 60.3mm EUE Lift x Suspension threads	Weatherford	Type H5G	612979		
Type Tubing Spool Assembl	Install Date 15/10/2012	Service	Comment		

Wellhead Components					
Des	Make	Model	SN	WP Top (kPa)	
279.4mm, 179.4mm x2, 52.4mm studded side outlets	WEATHERFORD	Type B	612044		

Casing					
Casing Description Production	Set Depth (mKB) 955.00	Run Date 14/10/2012	Set Tension (daN) 30,000.0		
Centralizers 30x Semi-rigid Centralizers	Scratchers n/a				

Casing Components												
Item Des	OD (mm)	Wt (kg/m)	Grade	Top Thread	Jts	Len (m)	Top (mKB)	Btm (mKB)	Mk-up Tq (daN*m)	Class	Max OD (mm)	ID (mm)
Casing Joints	177.8	43.157	L-80	LT&C	69	935.94	4.32	940.26				157.1
Float Collar	177.8	43.157	L-80	LT&C	1	0.43	940.26	940.69				157.1
Casing Joints	177.8	43.157	L-80	LT&C	1	13.81	940.69	954.50				157.1
Float Shoe	177.8	43.157	L-80	LT&C	1	0.50	954.50	955.00				157.1



Bit Summary

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Job Type: Drilling - original

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Bits																		
BHA #	Bit Run	Size (mm)	Make	Model	SN	IADC Codes	TFA (incl Noz) (mm ²)	Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hr)	BHA ROP (m/hr)	WOB Max (daN)	WOB Min (daN)	Max RPM (rpm)	Min RPM (rpm)	Bit Dull
1																		-----
2	1	311.2	KING DREAM	EGIHGLC	L00009	117S	917	22.0/22.0/22.0/20.0	133.00	273.00	140.00	14.73	9.5	5,500	5,000	160	150	1-1-WT-A-E-0-BU-TD
3	2	222.0	SMITH	FHi18B	PX2212	447X	481	14.3/14.3/14.3	273.00	832.00	516.00	73.69	7.0	15,000	2,000	150	60	-----
4	2	222.0	SMITH	FHi18B	PX2212	447X	481	14.3/14.3/14.3	827.00	832.00	5.00	2.00	2.5	7,000	7,000	80	80	1-2-BU-M-E-1-BT-TO
5	3	222.0	SMITH	FHi21BOD1VPS	PX4869	517X	481	14.3/14.3/14.3	832.00	892.00	60.00	22.75	2.6	8,000	7,000	90	80	0-0-NO-A-E-0-NO-CP
5	C1	200.0	QUEST	DC813L	1117	---	567	9.5/9.5/9.5/9.5/9.5/9.5/9.5/9.5	892.50	910.50	18.00	5.50	3.3	3,000	3,000	50	50	1-1-NO-T-X--CT-BHA
6	3RR	222.0	SMITH	FHi21BOD1VPS	PX4869	517X	481	14.3/14.3/14.3	928.00	955.00	27.00	10.50	2.6	10,000	10,000	80	80	-----
7	3RRR	222.0	SMITH	FHi21BOD1VPS	PX4869	517X												-----



BHA Summary

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Job Type: Drilling - original

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Bit Run	BHA #	String Name	BHA	Drill Bit	Bit Dull	Depth In (mKB)	Depth Out (mKB)	Drilled (m)	Drill Time (hr)	BHA ROP (m/hr)
	1	Drilling Assembly			-----					
1	2	Drilling Assembly	KING DREAM EGIHGLC, BIT SUB, DC (8.00 IN), DC (8.00 IN), DC (8.00 IN), DC (8.00 IN), X/O, DC (6.50 IN), JARS-MECH, DC (6.50 IN), Drill Pipe	311.2mm, EGIHGLC, L00009	1-1-WT-A-E-0-BU-TD	133.00	273.00	140.00	14.73	9.5
2	3	Drilling Assembly	SMITH FHi18B, BIT SUB, MONEL, X/O, MONEL, DC (6.50 IN), JARS-MECH, DC (6.50 IN), X/O, Drill Pipe	222.0mm, FHi18B, PX2212	-----	273.00	832.00	516.00	73.69	7.0
2	4	Drilling Assembly	SMITH FHi18B, BIT SUB, MONEL, X/O, MONEL, DC (6.50 IN), JARS-MECH, DC (6.50 IN), X/O, Drill Pipe, Drill Pipe	222.0mm, FHi18B, PX2212	1-2-BU-M-E-1-BT-TO	827.00	832.00	5.00	2.00	2.5
3	5	Drilling Assembly	SMITH FHi21BOD1VPS, BIT SUB, SHOCK SUB, MONEL, X/O, MONEL, DC (6.50 IN), JARS-MECH, DC (6.50 IN), X/O, Drill Pipe, Drill Pipe	222.0mm, FHi21BOD1VPS, PX4869	0-0-NO-A-E-0-NO-CP	832.00	892.00	60.00	22.75	2.6
C1	5	Drilling Assembly	QUEST DC813L, CORE BBL, JARS-MECH, X/O, BIT SUB, DC (6.50 IN), X/O, Drill Pipe	200.0mm, DC813L, 1117	1-1-NO-T-X--CT-BHA	892.50	910.50	18.00	5.50	3.3
3R R	6	Drilling Assembly	SMITH FHi21BOD1VPS, BIT SUB, SHOCK SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), JARS-MECH, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, Drill Pipe	222.0mm, FHi21BOD1VPS, PX4869	-----	928.00	955.00	27.00	10.50	2.6
3R RR	7	Drilling Assembly	SMITH FHi21BOD1VPS, BIT SUB, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), JARS-HYD/MECH, DC (6.50 IN), DC (6.50 IN), DC (6.50 IN), X/O, Drill pipe - Stands	222.0mm, FHi21BOD1VPS, PX4869	-----					



Directional Survey

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Wellbore Name Original Hole	Parent Wellbore	Kick Off Depth (mKB)	Vertical Section Direction (°)
Date 19/09/2012	Definitive? Yes	Description Surveys from Tour Sheet Import (Tie in @ 273m)	Proposed? No
MD Tie In (mKB) 0.00	TVDTie In (mKB) 0.00	Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00
		NSTie In (m) 0.00	EW Tie In (m) 0.00

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Build (°/30m)	Turn (°/30m)	Unwrap Displace (m)	Method	Survey Company
04/10/2012				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DIRECTI ONA	
01/10/2012	273.00	0.00	0.00	273.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DIRECTI ONA	
28/09/2012	296.00	1.19	113.16	296.00	0.17	-0.09	0.22	1.55	1.55	147.60	0.24	DIRECTI ONA	
28/09/2012	321.00	1.40	119.36	320.99	0.54	-0.35	0.72	0.30	0.25	7.44	0.80	DIRECTI ONA	
29/09/2012	347.00	1.58	119.00	346.98	0.96	-0.68	1.31	0.21	0.21	-0.42	1.48	DIRECTI ONA	
29/09/2012	372.00	1.49	114.66	371.97	1.39	-0.98	1.91	0.18	-0.11	-5.21	2.15	DIRECTI ONA	
29/09/2012	386.00	1.49	119.18	385.97	1.63	-1.14	2.24	0.25	0.00	9.69	2.51	DIRECTI ONA	
29/09/2012	398.00	1.19	119.80	397.97	1.80	-1.28	2.48	0.75	-0.75	1.55	2.79	DIRECTI ONA	
29/09/2012	411.00	1.01	115.18	410.96	1.96	-1.40	2.70	0.46	-0.42	-10.66	3.04	DIRECTI ONA	
29/09/2012	424.00	1.10	126.17	423.96	2.11	-1.52	2.91	0.51	0.21	25.36	3.28	DIRECTI ONA	
29/09/2012	437.00	1.10	122.48	436.96	2.24	-1.66	3.11	0.16	0.00	-8.52	3.53	DIRECTI ONA	
29/09/2012	450.00	1.32	134.64	449.96	2.37	-1.83	3.32	0.78	0.51	28.06	3.80	DIRECTI ONA	
29/09/2012	462.00	1.32	148.05	461.95	2.45	-2.05	3.49	0.77	0.00	33.53	4.08	DIRECTI ONA	
29/09/2012	475.00	1.32	155.88	474.95	2.48	-2.31	3.64	0.42	0.00	18.07	4.38	DIRECTI ONA	
29/09/2012	488.00	1.49	160.57	487.95	2.48	-2.61	3.75	0.47	0.39	10.82	4.69	DIRECTI ONA	
29/09/2012	501.00	1.49	155.79	500.94	2.47	-2.92	3.88	0.29	0.00	-11.03	5.03	DIRECTI ONA	
29/09/2012	512.00	1.19	169.98	511.94	2.45	-3.16	3.96	1.21	-0.82	38.70	5.29	DIRECTI ONA	
29/09/2012	524.00	1.32	177.98	523.94	2.38	-3.42	3.98	0.54	0.33	20.00	5.55	DIRECTI ONA	
29/09/2012	538.00	1.10	177.98	537.93	2.27	-3.72	3.99	0.47	-0.47	0.00	5.85	DIRECTI ONA	
29/09/2012	551.00	0.88	177.85	550.93	2.20	-3.94	4.00	0.51	-0.51	-0.30	6.07	DIRECTI ONA	
01/10/2012	562.00	0.48	187.08	561.93	2.14	-4.07	4.00	1.13	-1.09	25.17	6.20	DIRECTI ONA	
30/09/2012	575.00	0.40	152.60	574.93	2.12	-4.17	4.01	0.63	-0.18	-79.57	6.30	DIRECTI ONA	
30/09/2012	589.00	0.40	152.36	588.93	2.13	-4.25	4.06	0.00	0.00	-0.51	6.39	DIRECTI ONA	
30/09/2012	602.00	0.62	141.29	601.93	2.15	-4.35	4.12	0.55	0.51	-25.55	6.51	DIRECTI ONA	
30/09/2012	615.00	0.88	167.96	614.93	2.16	-4.50	4.19	0.99	0.60	61.55	6.67	DIRECTI ONA	
30/09/2012	628.00	1.58	250.18	627.93	1.96	-4.66	4.04	3.93	1.62	189.74	6.89	DIRECTI ONA	



Directional Survey

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Survey Data

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	VS (m)	NS (m)	EW (m)	DLS (°/30m)	Build (°/30m)	Turn (°/30m)	Unwrap Displace (m)	Method	Survey Company
30/09/2012	640.00	2.20	264.95	639.92	1.57	-4.74	3.66	1.96	1.55	36.93	7.28	DIRECTI ONA	
30/09/2012	653.00	2.50	273.56	652.91	1.08	-4.74	3.12	1.07	0.69	19.87	7.81	DIRECTI ONA	
30/09/2012	667.00	2.11	292.46	666.90	0.62	-4.62	2.58	1.82	-0.84	40.50	8.37	DIRECTI ONA	
30/09/2012	680.00	1.89	295.27	679.89	0.31	-4.44	2.17	0.56	-0.51	6.48	8.82	DIRECTI ONA	
30/09/2012	693.00	2.11	303.07	692.88	0.03	-4.22	1.77	0.81	0.51	18.00	9.28	DIRECTI ONA	
30/09/2012	705.00	1.80	312.45	704.87	-0.18	-3.97	1.45	1.11	-0.78	23.45	9.68	DIRECTI ONA	
30/09/2012	719.00	1.80	333.99	718.87	-0.28	-3.62	1.19	1.44	0.00	46.16	10.12	DIRECTI ONA	
01/10/2012	730.00	1.41	347.26	729.86	-0.27	-3.34	1.08	1.46	-1.06	36.19	10.42	DIRECTI ONA	
01/10/2012	744.00	1.71	6.77	743.86	-0.14	-2.96	1.07	1.30	0.64	-729.62	10.80	DIRECTI ONA	
01/10/2012	758.00	1.89	18.55	757.85	0.11	-2.54	1.17	0.88	0.39	25.24	11.24	DIRECTI ONA	
01/10/2012	771.00	1.89	22.99	770.84	0.41	-2.14	1.32	0.34	0.00	10.25	11.66	DIRECTI ONA	
01/10/2012	783.00	2.29	37.36	782.84	0.75	-1.76	1.54	1.64	1.00	35.93	12.10	DIRECTI ONA	
01/10/2012	796.00	2.20	45.09	795.83	1.21	-1.38	1.88	0.73	-0.21	17.84	12.61	DIRECTI ONA	
01/10/2012	809.00	2.50	57.87	808.81	1.72	-1.05	2.29	1.39	0.69	29.49	13.14	DIRECTI ONA	
02/10/2012	821.00	2.59	60.16	820.80	2.25	-0.78	2.75	0.34	0.23	5.73	13.67	DIRECTI ONA	
03/10/2012	835.00	2.68	62.36	834.79	2.89	-0.47	3.31	0.29	0.19	4.71	14.31	DIRECTI ONA	
03/10/2012	848.00	2.68	63.37	847.77	3.49	-0.19	3.86	0.11	0.00	2.33	14.92	DIRECTI ONA	
04/10/2012	860.00	2.81	69.48	859.76	4.07	0.04	4.38	0.80	0.33	15.28	15.49	DIRECTI ONA	
04/10/2012	872.00	2.81	73.88	871.75	4.65	0.22	4.94	0.54	0.00	11.00	16.08	DIRECTI ONA	
07/10/2012	945.00	2.50	0.00	944.69	7.04	2.31	6.66	1.32	-0.13	-30.36	18.79	WIRELI NE	
04/10/2012	945.00	2.50	0.00	944.69	7.04	2.31	6.66	1.32	0.00	0.00	18.79	DIRECTI ONA	
04/10/2012	955.00	2.50	0.00	954.68	7.20	2.75	6.66	0.00	0.00	0.00	19.22	DIRECTI ONA	



Cores - Bottomhole and Sidewall

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Bottom Hole Cores

Date	Core #	Type	Top Depth (mKB)	Bottom Depth (mKB)	Recovered (m)	% Recov (%)	Core Diameter (mm)	Oriented?	Coring Company	Formation
05/10/2012 02:30	1	Conventional	892.50	910.50	18.0	100	102.0	No	Quest Coring	

Comment

Blackie formation

Sidewall Cores

Date	Run No	Type	Top Depth (mKB)	Bottom Depth (mKB)	Coring Company
# Samples Planned	# Samples Recovered	# Bullets Fired	# Bullets Misfired	# Samples Empty	# Samples Lost in Hole

Sidewall Core Samples

Sample Depth (mKB)	Sample Depth (TVD) (mKB)	Sample Length (m)	Result	Formation

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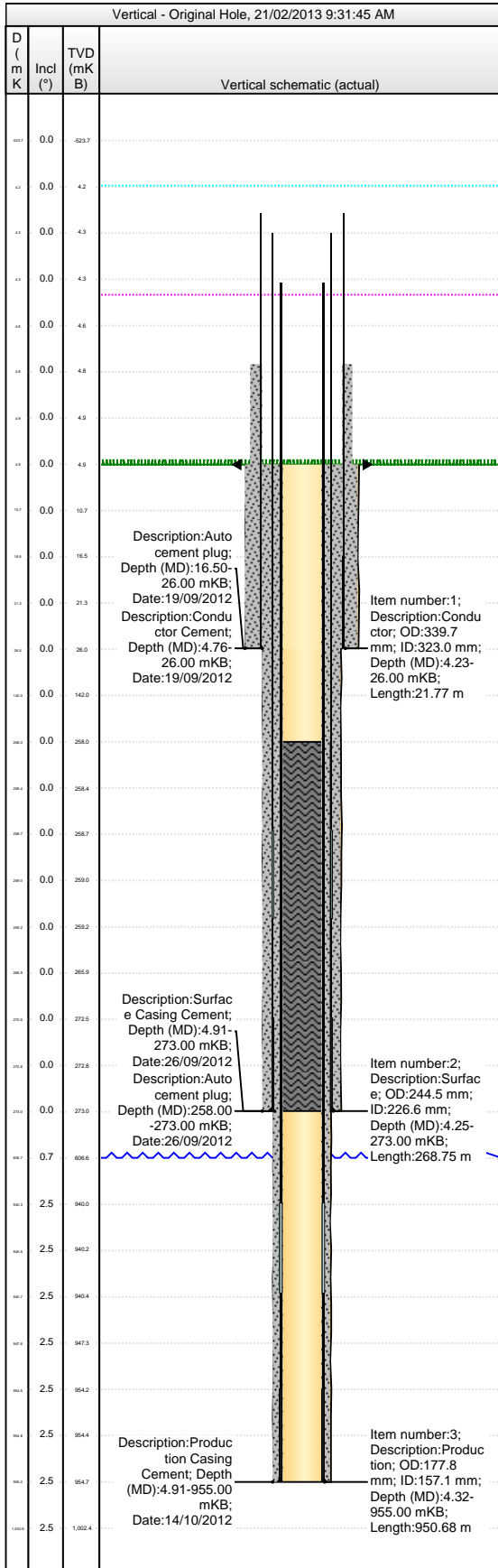


Casing, Liner and Cement report

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Conductor

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00



Wellbore									
Wellbore Name Original Hole		Profile Type		Kick Off Depth (mKB)		Vertical Section Direction (°)			
Section Des		Size (mm)		Act Top (mKB)		Act Btm (mKB)			
Conductor		444.5		4.91		26.00			
Surface		311.2		26.00		273.00			
Production		222.0		273.00		955.00			
Wellhead									
Type Casing head WFT-22									
Des		Make		Model		SN		WP Top (kPa)	
Type Tubing Bonnet Assemb									
Des		Make		Model		SN		WP Top (kPa)	
Type Tubing Hanger Assemb									
Des		Make		Model		SN		WP Top (kPa)	
Type Tubing Spool Assembl									
Des		Make		Model		SN		WP Top (kPa)	
Last Mud Check									
Date	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	Gel (10s) (Pa)	Gel (10m) (Pa)	PV OR (Pas)	YP OR (Pa)	
Casing									
Casing Description Conductor				Run Date 19/09/2012 14:45		Set Depth (mKB) 26.00		Wellbore Original Hole	
Centralizers					Scratchers				
Jts	Item Des	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Len (m)	Top (mKB)	Btm (mKB)	
2	Casing Joints	339.7	323.0	71.432	H-40	21.77	4.23	26.00	
Cement: Conductor Cement									
Cementing Start Date 19/09/2012			Cementing End Date 19/09/2012			Wellbore Original Hole			
Evaluation Method Returns to Surface			Cement Evaluation Results Received 2.0m3 to surface.						
Comment Pump 1.0 m3 of preflush water. pump 3.8 m3 Halcem G +3% CaCl2 followed by 1.3 m3 of water.									
Cement Stage: Conductor Cement									
Top Depth (mKB) 4.76		Bottom Depth (mKB) 26.00		Full Return? Yes	Vol Ceme... 2.00	Top Plug?		Bottom Plug?	
Q Pump Init (m³/min) 0.400		Final Pump Rate (m³/min) 0.700		Avg Pump Rate (m³/min)		P Pump Final (kPa) 100		P Plug Bump (kPa)	
Pipe Reciprocated?		Stroke (m)		Reciprocation Rate (spm)		Pipe Rotated?		Pipe RPM (rpm)	
Tagged Depth (mKB) 16.50		Tag Method Drill Bit		Depth Plug Drilled Out... 26.00		Drill Out Diameter (mm) 311.2		Drill Out Date 20/09/2012	
Cement Fluid: Conductor Cement									
Fluid Type Water		Fluid Description				Amount (1... Class)		Volume Pumped (m³) 1.00	
Estimated Top (mKB) 0.00		Est Btm (mKB) 0.00		Yield (m³/tonne)		Mix H2O Ratio (m³/tonne)		Free Water (%)	
Density (kg/m³) 1,000.0		Plastic Viscosity (Pa*s)		Thickening Time (hr)		1st Compressive Strength (kPa)			
Cement Fluid Additives									
Add			Type			Conc			

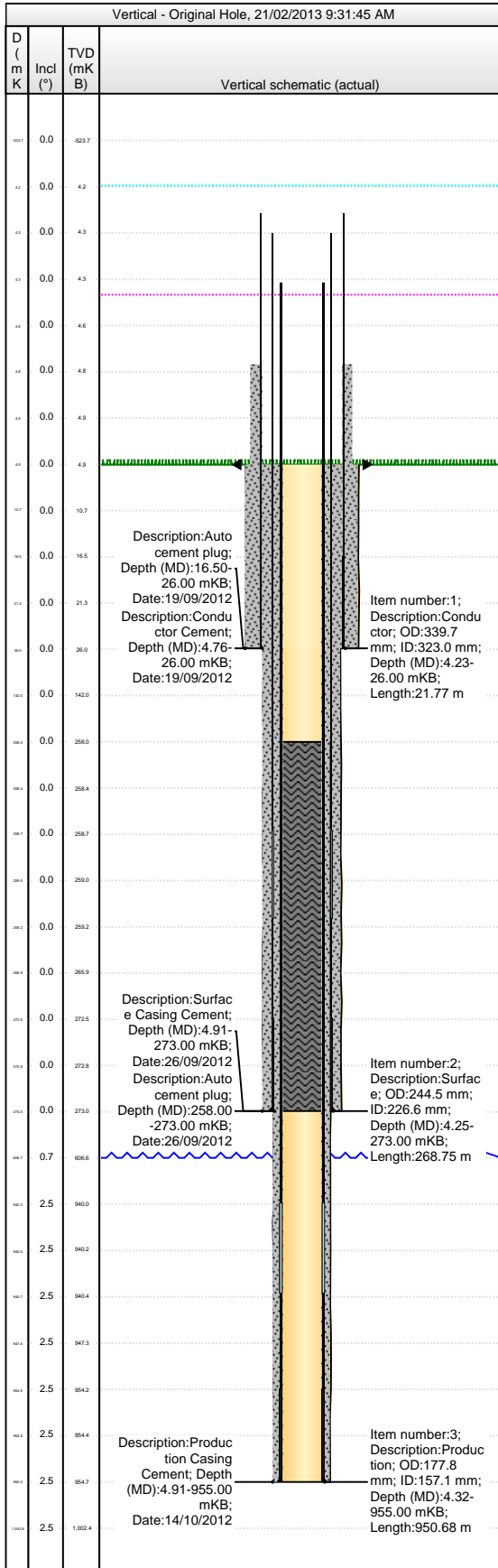


Casing, Liner and Cement report

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Conductor

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00



Cement Fluid: Conductor Cement

Fluid Type Tail	Fluid Description	Amount (1...) 5.0	Class HALCE M G + 3% calc2	Volume Pumped (m³) 3.80
Estimated Top (mKB) 4.91	Est Btm (mKB) 26.00	Yield (m³/tonne) 0.760	Mix H2O Ratio (m³/tonne) 0.44	Free Water (%)
Density (kg/m³) 1,895.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)	

Cement Fluid Additives

Add	Type	Conc

Cement Fluid: Conductor Cement

Fluid Type Displacement	Fluid Description	Amount (1...)	Class	Volume Pumped (m³)
Estimated Top (mKB)	Est Btm (mKB)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)	Free Water (%)
Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)	

Cement Fluid Additives

Add	Type	Conc

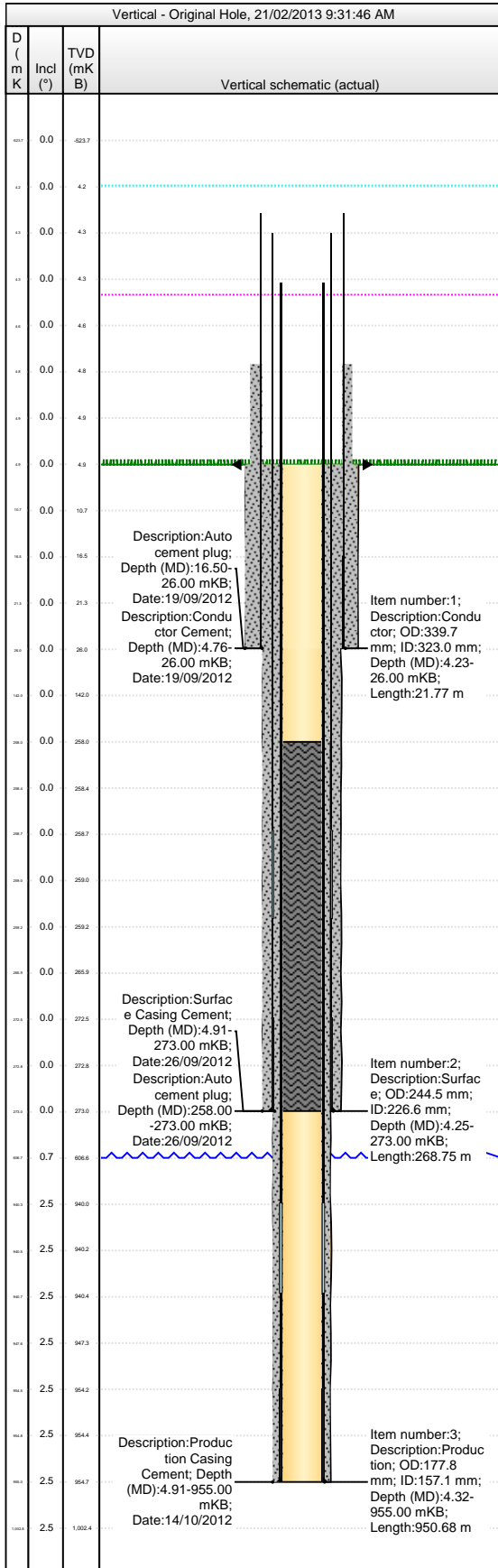


Casing, Liner and Cement report

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Surface

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00



Wellbore									
Wellbore Name Original Hole		Profile Type		Kick Off Depth (mKB)		Vertical Section Direction (°)			
Section Des		Size (mm)		Act Top (mKB)		Act Btm (mKB)			
Conductor		444.5		4.91		26.00			
Surface		311.2		26.00		273.00			
Production		222.0		273.00		955.00			
Wellhead									
Type Casing head WFT-22									
Des		Make		Model		SN		WP Top (kPa)	
Type Tubing Bonnet Assemb									
Des		Make		Model		SN		WP Top (kPa)	
Type Tubing Hanger Assemb									
Des		Make		Model		SN		WP Top (kPa)	
Type Tubing Spool Assembl									
Des		Make		Model		SN		WP Top (kPa)	
Last Mud Check									
Date	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	Gel (10s) (Pa)	Gel (10m) (Pa)	PV OR (Pa*s)	YP OR (Pa)	
25/09/2012	Gel-Chem	273.00	1,040.0	70	8.000	10.000	8.0	14.500	
Casing									
Casing Description Surface				Run Date 26/09/2012 03:30		Set Depth (mKB) 273.00		Wellbore Original Hole	
Centralizers 12x Bow Spring Centralizers						Scratchers n/a			
Jts	Item Des	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Len (m)	Top (mKB)	Btm (mKB)	
21	Casing Joints	244.5	226.6	53.574	J-55	254.42	4.25	258.67	
1	Float Collar	244.5	226.6	53.570	J-55	0.49	258.67	259.16	
1	Casing Joints	244.5	226.6	53.574	J-55	13.29	259.16	272.45	
1	Float Shoe	244.5	226.6	53.570	J-55	0.55	272.45	273.00	
Cement: Surface Casing Cement									
Cementing Start Date 26/09/2012			Cementing End Date 26/09/2012			Wellbore Original Hole			
Evaluation Method Returns to Surface				Cement Evaluation Results Received 2.5m3 to surface. Fell back 5.5m while WOC. Top filled cement to surface.					
Comment Installed cement head and lines. Pumped 1m3 of fresh water preflush ahead, stopped pump, closed valve, and pressure tested lines. Bled off and opened valve. Continued to pump 1m3 of remaining fresh water preflush followed by 7.9m3 (10 tonnes) of Lead ArcticCem + 0.2% PFR 1 + 0.2% Flocele + 0.1% Flocele at 1870kg/m3 followed by 5.7m3 (7.5 tonnes) of Tail HalCem G + 3% CaCl2 + 0.2% Tuff fiber + 0.1% Tuff fiber @ 1895kg/m3. Stopped pump, dropped top plug, and displaced casing with 10.5m3 of fresh water preflush. Bumped plug and tested floats (holding). Received 2.5m3 of good cement returns to surface. Fell back 5.5m while WOC. Top filled cement to surface.									
Cement Stage: Surface Casing Cement									
Top Depth (mKB) 4.91		Bottom Depth (mKB) 273.00		Full Return? Vol Ceme... Yes 2.50		Top Plug? Yes		Bottom Plug? No	
Q Pump Init (m³/min) 0.800		Final Pump Rate (m³/min) 1.000		Avg Pump Rate (m³/min) 1.000		P Pump Final (kPa) 3,200		P Plug Bump (kPa) 10,500	
Pipe Reciprocated? Yes		Stroke (m) 3.00		Reciprocation Rate (spm) 1		Pipe Rotated? No		Pipe RPM (rpm)	
Tagged Depth (mKB) 258.00		Tag Method Drill Bit		Depth Plug Drilled Out...		Drill Out Diameter (mm) 222.2		Drill Out Date 28/09/2012	

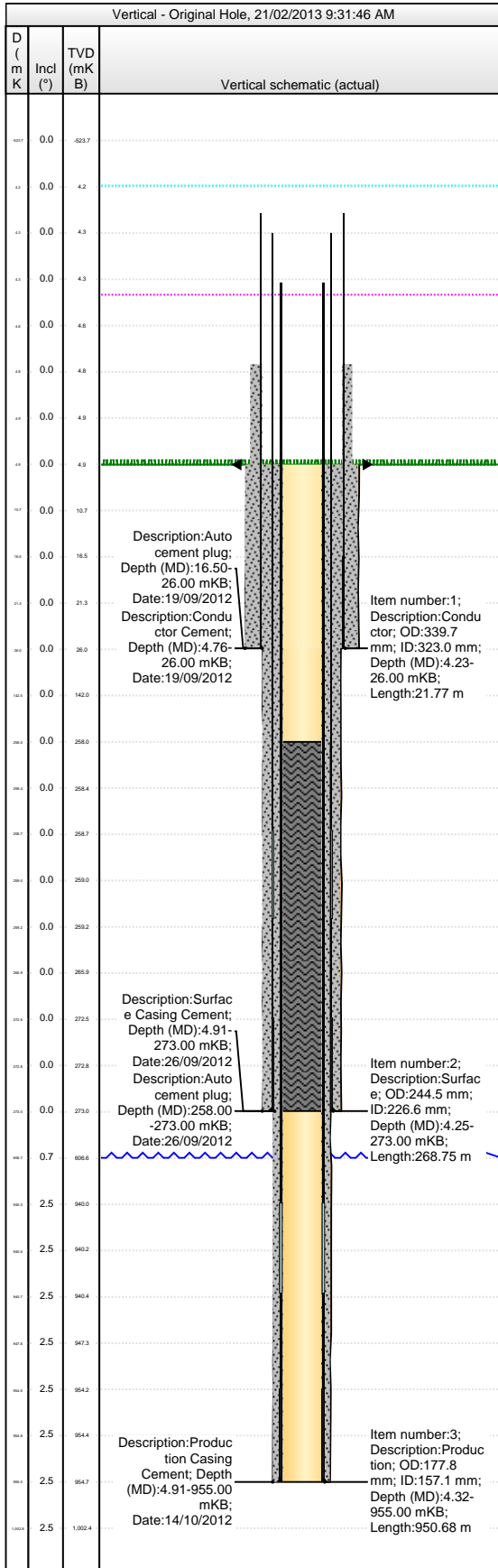


Casing, Liner and Cement report

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Production

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00



Wellbore Name		Profile Type		Kick Off Depth (mKB)		Vertical Section Direction (°)		
Original Hole								
Section Des	Size (mm)	Act Top (mKB)		Act Btm (mKB)				
Conductor	444.5	4.91		26.00				
Surface	311.2	26.00		273.00				
Production	222.0	273.00		955.00				
Wellhead								
Type								
Casing head WFT-22								
Des	Make	Model	SN	WP Top (kPa)				
Type								
Tubing Bonnet Assemb								
Des	Make	Model	SN	WP Top (kPa)				
Type								
Tubing Hanger Assemb								
Des	Make	Model	SN	WP Top (kPa)				
Type								
Tubing Spool Assembl								
Des	Make	Model	SN	WP Top (kPa)				
Last Mud Check								
Date	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	Gel (10s) (Pa)	Gel (10m) (Pa)	PV OR (Pa*s)	YP OR (Pa)
13/10/2012	Gel-Chem	955.00	1,255.0	150	18.000	36.000	0.0	34.500
Casing								
Casing Description		Run Date	Set Depth (mKB)		Wellbore			
Production		14/10/2012 11:00	955.00		Original Hole			
Centralizers				Scratchers				
30x Semi-rigid Centralizers				n/a				
Jts	Item Des	OD (mm)	ID (mm)	Wt (kg/m)	Grade	Len (m)	Top (mKB)	Btm (mKB)
69	Casing Joints	177.8	157.1	43.157	L-80	935.94	4.32	940.26
1	Float Collar	177.8	157.1	43.157	L-80	0.43	940.26	940.69
1	Casing Joints	177.8	157.1	43.157	L-80	13.81	940.69	954.50
1	Float Shoe	177.8	157.1	43.157	L-80	0.50	954.50	955.00
Cement: Production Casing Cement								
Cementing Start Date		Cementing End Date		Wellbore				
14/10/2012		14/10/2012		Original Hole				
Evaluation Method		Cement Evaluation Results						
Returns to Surface		Received 3m3 of good cement returns to surface.						
Comment								
Install wiper plug, cement head, and lines. Pump 1m3 of fresh water preflush ahead, stop pump, close valve, and pressure test lines to 21MPa. Bleed off and open valve. Continue to pump 2m3 of scavenger preflush at 1300kg/m3 followed by 14m3 (13 tonnes) of Lead HalCem 'G' + 1.6% Halliburton Gel + 0.5% Halad 344 + 0.7% CaCl2 + 4% Econolite at 1665kg/m3 followed by 10.7m3 (14.1 tonnes) of Tail HalCem 'G' + 0.5% Halad 567 at 1895kg/m3. Stop pump, drop top plug, and displace casing with 18.3m3 of fresh water. Bump plug 10,000kPa over final circulating pressure. Pressure test casing to 21,000kPa for 10 minutes, bleed off and test floats (holding). Received 3m3 of good cement returns to surface. Flush BOP stack and rig out cementers.								
Cement Stage: Production Casing Cement								
Top Depth (mKB)	Bottom Depth (mKB)	Full Return?	Vol Ceme...	Top Plug?		Bottom Plug?		
4.91	955.00	Yes	3.00	Yes		Yes		
Q Pump Init (m³/min)	Final Pump Rate (m³/min)	Avg Pump Rate (m³/min)		P Pump Final (kPa)		P Plug Bump (kPa)		
0.500	0.900	1.000		9,000		10,000		
Pipe Reciprocated?	Stroke (m)	Reciprocation Rate (spm)		Pipe Rotated?		Pipe RPM (rpm)		
Yes	3.00	1		No				
Tagged Depth (mKB)	Tag Method	Depth Plug Drilled Out...		Drill Out Diameter (mm)		Drill Out Date		

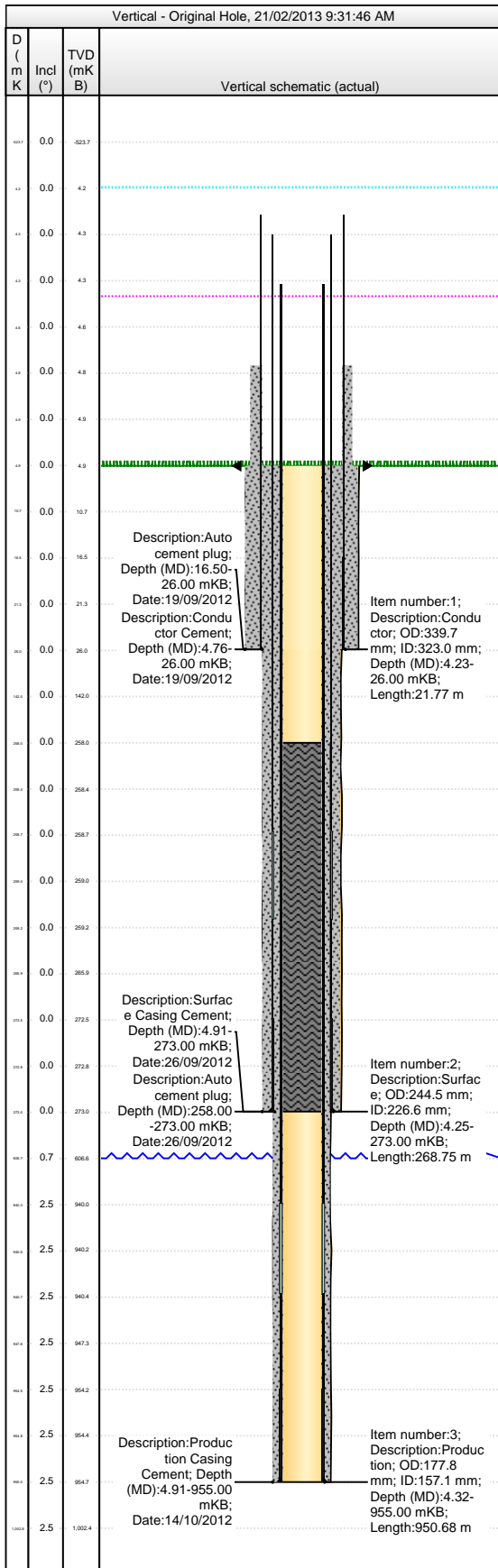


Casing, Liner and Cement report

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Production

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00



Cement Fluid: Production Casing Cement					
Fluid Type	Fluid Description	Amount (1...)	Class	Volume Pumped (m³)	
Preflush	Water Preflush	0.0	n/a	1.00	
Estimated Top (mKB)	Est Btm (mKB)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)	Free Water (%)	
0.00	0.00	0.000	0.00		
Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)		
1,000.0					
Cement Fluid Additives					
Add	Type	Conc			
Cement Fluid: Production Casing Cement					
Fluid Type	Fluid Description	Amount (1...)	Class	Volume Pumped (m³)	
Preflush	Scavenger	1.5	G	2.00	
Estimated Top (mKB)	Est Btm (mKB)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)	Free Water (%)	
0.00	100.00	1.300	0.85		
Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)		
1,300.0					
Cement Fluid Additives					
Add	Type	Conc			
CaCl2		0.7			
Econolite		4.0			
Halad 344		0.5			
Halliburton Gel		1.6			
Cement Fluid: Production Casing Cement					
Fluid Type	Fluid Description	Amount (1...)	Class	Volume Pumped (m³)	
Lead	Lead Cement	13.0	G	14.00	
Estimated Top (mKB)	Est Btm (mKB)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)	Free Water (%)	
100.00	650.00	1.080	0.73		
Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)		
1,665.0		4.00	3,500		
Cement Fluid Additives					
Add	Type	Conc			
CaCl2		0.7			
Econolite		4.0			
Halad 344		0.5			
Halliburton Gel		1.6			
Cement Fluid: Production Casing Cement					
Fluid Type	Fluid Description	Amount (1...)	Class	Volume Pumped (m³)	
Tail	Tail Cement	14.0	G	10.70	
Estimated Top (mKB)	Est Btm (mKB)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)	Free Water (%)	
650.00	955.00	0.760	0.44		
Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)		
1,895.0		4.00	3,500		
Cement Fluid Additives					
Add	Type	Conc			
Halad 567		0.5			
Cement Fluid: Production Casing Cement					
Fluid Type	Fluid Description	Amount (1...)	Class	Volume Pumped (m³)	
Displacement	Water Displacement	0.0	n/a	18.30	
Estimated Top (mKB)	Est Btm (mKB)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)	Free Water (%)	
0.00	941.90	0.000	0.00		
Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)		
1,000.0					
Cement Fluid Additives					
Add	Type	Conc			



Cement

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Conductor Cement

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Conductor Cement, Casing, 19/09/2012 14:00

Type Casing	Cementing Start Date 19/09/2012	Cementing End Date 19/09/2012	Wellbore Original Hole	String Conductor, 26.00mKB
Cementing Company Halliburton Energy Services	Evaluation Method Returns to Surface	Cement Evaluation Results Received 2.0m3 to surface.		

Comment
Pump 1.0 m3 of preflush water. pump 3.8 m3 Halcem G +3% CaCl2 followed by 1.3 m3 of water.

1, 4.76-26.00mKB

Top Depth (mKB) 4.76	Bottom Depth (mKB) 26.00	Full Return? Yes	Vol Cement Ret (m³) 2.00	Top Plug?	Bottom Plug?
Initial Pump Rate (m³/min) 0.400	Final Pump Rate (m³/min) 0.700	Avg Pump Rate (m³/min)		Final Pump Pressure (kPa) 100	Plug Bump Pressure (kPa)
Pipe Reciprocated?	Reciprocation Stroke Length (m)	Reciprocation Rate (spm)		Pipe Rotated?	Pipe RPM (rpm)
Tagged Depth (mKB) 16.50	Tag Method Drill Bit	Depth Plug Drilled Out To (mKB) 26.00	Drill Out Diameter (mm) 311.2	Drill Out Date 20/09/2012	

Water

Fluid Type Water	Fluid Description	Amount (1000kg)	Class	Volume Pumped (m³) 1.00
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 0.00	Percent Excess Pumped (%)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)
Free Water (%)	Density (kg/m³) 1,000.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description	Amount (1000kg) 5.0	Class HALCEM G + 3% calc2	Volume Pumped (m³) 3.80
Estimated Top (mKB) 4.91	Estimated Bottom Depth (mKB) 26.00	Percent Excess Pumped (%)	Yield (m³/tonne) 0.760	Mix H2O Ratio (m³/tonne) 0.44
Free Water (%)	Density (kg/m³) 1,895.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description	Amount (1000kg)	Class	Volume Pumped (m³)
Estimated Top (mKB)	Estimated Bottom Depth (mKB)	Percent Excess Pumped (%)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)
Free Water (%)	Density (kg/m³)	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc



Cement

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Surface Casing Cement

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Surface Casing Cement, Casing, 26/09/2012 08:00

Type Casing	Cementing Start Date 26/09/2012	Cementing End Date 26/09/2012	Wellbore Original Hole	String Surface, 273.00mKB
Cementing Company Halliburton Energy Services	Evaluation Method Returns to Surface	Cement Evaluation Results Received 2.5m3 to surface. Fell back 5.5m while WOC. Top filled cement to surface.		

Comment
 Installed cement head and lines. Pumped 1m3 of fresh water preflush ahead, stopped pump, closed valve, and pressure tested lines. Bled off and opened valve. Continued to pump 1m3 of remaining fresh water preflush followed by 7.9m3 (10 tonnes) of Lead ArcticCem + 0.2% PFR 1 + 0.2% Flocele + 0.1% Flocele at 1870kg/m3 followed by 5.7m3 (7.5 tonnes) of Tail HalCem G + 3% CaCl2 + 0.2% Tuff fiber + 0.1% Tuff fiber @ 1895kg/m3. Stopped pump, dropped top plug, and displaced casing with 10.5m3 of fresh water preflush. Bumped plug and tested floats (holding). Received 2.5m3 of good cement returns to surface. Fell back 5.5m while WOC. Top filled cement to surface.

1, 4.91-273.00mKB

Top Depth (mKB) 4.91	Bottom Depth (mKB) 273.00	Full Return? Yes	Vol Cement Ret (m³) 2.50	Top Plug? Yes	Bottom Plug? No
Initial Pump Rate (m³/min) 0.800	Final Pump Rate (m³/min) 1.000	Avg Pump Rate (m³/min) 1.000		Final Pump Pressure (kPa) 3,200	Plug Bump Pressure (kPa) 10,500
Pipe Reciprocated? Yes	Reciprocation Stroke Length (m) 3.00	Reciprocation Rate (spm) 1		Pipe Rotated? No	Pipe RPM (rpm)
Tagged Depth (mKB) 258.00	Tag Method Drill Bit	Depth Plug Drilled Out To (mKB)		Drill Out Diameter (mm) 222.2	Drill Out Date 28/09/2012

Preflush

Fluid Type Preflush	Fluid Description	Amount (1000kg)	Class	Volume Pumped (m³) 2.00
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 0.00	Percent Excess Pumped (%)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)
Free Water (%)	Density (kg/m³) 1,000.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description	Amount (1000kg) 7.9	Class Thermal	Volume Pumped (m³) 7.90
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 150.00	Percent Excess Pumped (%)	Yield (m³/tonne) 0.790	Mix H2O Ratio (m³/tonne) 0.42
Free Water (%)	Density (kg/m³) 1,870.0	Plastic Viscosity (Pa*s)	Thickening Time (hr) 0.00	1st Compressive Strength (kPa) 3,500

Cement Fluid Additives

Add	Type	Conc
Flocele		0.1
Flocele		0.2
PFR 1		0.2

Tail

Fluid Type Tail	Fluid Description	Amount (1000kg) 5.7	Class G	Volume Pumped (m³) 5.70
Estimated Top (mKB) 150.00	Estimated Bottom Depth (mKB) 273.00	Percent Excess Pumped (%)	Yield (m³/tonne) 0.760	Mix H2O Ratio (m³/tonne) 0.44
Free Water (%)	Density (kg/m³) 1,895.0	Plastic Viscosity (Pa*s)	Thickening Time (hr) 0.00	1st Compressive Strength (kPa) 3,500

Cement Fluid Additives

Add	Type	Conc
CaCl2		3.0
Tuff Fiber		0.1
Tuff Fiber		0.2

Displacement

Fluid Type Displacement	Fluid Description	Amount (1000kg)	Class	Volume Pumped (m³) 10.50
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 258.67	Percent Excess Pumped (%)	Yield (m³/tonne)	Mix H2O Ratio (m³/tonne)
Free Water (%)	Density (kg/m³) 1,000.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc



Cement

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Production Casing Cement

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Production Casing Cement, Casing, 14/10/2012 16:30

Type Casing	Cementing Start Date 14/10/2012	Cementing End Date 14/10/2012	Wellbore Original Hole	String Production, 955.00mKB
Cementing Company Halliburton Energy Services	Evaluation Method Returns to Surface	Cement Evaluation Results Received 3m3 of good cement returns to surface.		

Comment
Install wiper plug, cement head, and lines. Pump 1m3 of fresh water preflush ahead, stop pump, close valve, and pressure test lines to 21MPa. Bleed off and open valve. Continue to pump 2m3 of scavenger preflush at 1300kg/m3 followed by 14m3 (13 tonnes) of Lead HalCem 'G' + 1.6% Halliburton Gel + 0.5% Halad 344 + 0.7% CaCl2 + 4% Econolite at 1665kg/m3 followed by 10.7m3 (14.1 tonnes) of Tail HalCem 'G' + 0.5% Halad 567 at 1895kg/m3. Stop pump, drop top plug, and displace casing with 18.3m3 of fresh water. Bump plug 10,000kPa over final circulating pressure. Pressure test casing to 21,000kPa for 10 minutes, bleed off and test floats (holding). Received 3m3 of good cement returns to surface. Flush BOP stack and rig out cements.

1, 4.91-955.00mKB

Top Depth (mKB) 4.91	Bottom Depth (mKB) 955.00	Full Return? Yes	Vol Cement Ret (m³) 3.00	Top Plug? Yes	Bottom Plug? Yes
Initial Pump Rate (m³/min) 0.500	Final Pump Rate (m³/min) 0.900	Avg Pump Rate (m³/min) 1.000		Final Pump Pressure (kPa) 9,000	Plug Bump Pressure (kPa) 10,000
Pipe Reciprocated? Yes	Reciprocation Stroke Length (m) 3.00	Reciprocation Rate (spm) 1		Pipe Rotated? No	Pipe RPM (rpm)
Tagged Depth (mKB)	Tag Method	Depth Plug Drilled Out To (mKB)		Drill Out Diameter (mm)	Drill Out Date

Preflush

Fluid Type Preflush	Fluid Description Water Preflush	Amount (1000kg) 0.0	Class n/a	Volume Pumped (m³) 1.00
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 0.00	Percent Excess Pumped (%) 0.0	Yield (m³/tonne) 0.000	Mix H2O Ratio (m³/tonne) 0.00
Free Water (%)	Density (kg/m³) 1,000.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc

Preflush

Fluid Type Preflush	Fluid Description Scavenger	Amount (1000kg) 1.5	Class G	Volume Pumped (m³) 2.00
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 100.00	Percent Excess Pumped (%) 0.0	Yield (m³/tonne) 1.300	Mix H2O Ratio (m³/tonne) 0.85
Free Water (%)	Density (kg/m³) 1,300.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc
CaCl2		0.7
Econolite		4.0
Halad 344		0.5
Halliburton Gel		1.6

Lead

Fluid Type Lead	Fluid Description Lead Cement	Amount (1000kg) 13.0	Class G	Volume Pumped (m³) 14.00
Estimated Top (mKB) 100.00	Estimated Bottom Depth (mKB) 650.00	Percent Excess Pumped (%) 30.0	Yield (m³/tonne) 1.080	Mix H2O Ratio (m³/tonne) 0.73
Free Water (%)	Density (kg/m³) 1,665.0	Plastic Viscosity (Pa*s)	Thickening Time (hr) 4.00	1st Compressive Strength (kPa) 3,500

Cement Fluid Additives

Add	Type	Conc
CaCl2		0.7
Econolite		4.0
Halad 344		0.5
Halliburton Gel		1.6

Tail

Fluid Type Tail	Fluid Description Tail Cement	Amount (1000kg) 14.0	Class G	Volume Pumped (m³) 10.70
Estimated Top (mKB) 650.00	Estimated Bottom Depth (mKB) 955.00	Percent Excess Pumped (%) 30.0	Yield (m³/tonne) 0.760	Mix H2O Ratio (m³/tonne) 0.44
Free Water (%)	Density (kg/m³) 1,895.0	Plastic Viscosity (Pa*s)	Thickening Time (hr) 4.00	1st Compressive Strength (kPa) 3,500

Cement Fluid Additives

Add	Type	Conc
Halad 567		0.5



Cement

Production Casing Cement

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Displacement

Fluid Type Displacement	Fluid Description Water Displacement	Amount (1000kg) 0.0	Class n/a	Volume Pumped (m³) 18.30
Estimated Top (mKB) 0.00	Estimated Bottom Depth (mKB) 941.90	Percent Excess Pumped (%) 0.0	Yield (m³/tonne) 0.000	Mix H2O Ratio (m³/tonne) 0.00
Free Water (%)	Density (kg/m³) 1,000.0	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (kPa)

Cement Fluid Additives

Add	Type	Conc



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 19/09/2012, Report # 1.0, DFS: 2.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 0.00	End Depth (mKB) 0.00	Depth Progress (m)	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Report Date: 20/09/2012, Report # 2.0, DFS: 3.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 0.00	End Depth (mKB) 0.00	Depth Progress (m)	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:00	Gel-Chem	37.00	1,100.0	44	13.0	5.500	3.500	6.000	12.0	10.0	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Report Date: 21/09/2012, Report # 3.0, DFS: 4.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 0.00	End Depth (mKB) 0.00	Depth Progress (m)	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:00	Gel-Chem	67.00	1,020.0	61	23.0	8.000	4.000	7.000	16.0	8.5	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 22/09/2012, **Report #** 4.0, **DFS:** 5.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 0.00	End Depth (mKB) 0.00	Depth Progress (m)	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks											
Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:00	Gel-Chem	79.00	1,020.0	52	22.0	6.500	3.500	6.500	16.0	8.5	

Mud Volume (Additions and Losses)				
Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)				
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts									
Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Report Date: 23/09/2012, Report # 5.0, DFS: 6.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 0.00	End Depth (mKB) 0.00	Depth Progress (m)	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks											
Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
20:45	Gel Chem	141.00	1,060.0	90	12.0	16.000	9.000	11.000	6.0	8.5	3.0

Mud Volume (Additions and Losses)				
Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)				
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts									
Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 24/09/2012, **Report #** 6.0, **DFS:** 7.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 164.00	End Depth (mKB) 164.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:45	Gel Chem	260.00	1,040.0	60	11.0	13.500	8.000	10.000	6.0	8.5	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Report Date: 25/09/2012, Report # 7.0, DFS: 8.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 261.00	End Depth (mKB) 273.00	Depth Progress (m) 12.00	Drilling Hours (hr) 0.23	Avg ROP (m/hr) 51.5	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
12:00	Gel-Chem	273.00	1,040.0	70	8.0	14.500	8.000	10.000	6.0	8.0	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		25/09/2012	798.0			798.0		
CAL CARB SUPERCAL	SX		25/09/2012	56.0			56.0		
CALCIUM CARBONATE M-325	SX		25/09/2012	56.0			56.0		
CELL-O-FLAKE 3/8	SX		25/09/2012	144.0	50.0		94.0		
DESCO CF	SX		25/09/2012	160.0	33.0		127.0		
ENVIROPLUG MEDIUM	SX		25/09/2012	180.0	60.0		120.0		
FED PAC R	SX		25/09/2012	140.0		35.0	105.0		
FED SEAL	SX		25/09/2012	320.0	71.0		249.0		
FEDERAL GEL	SX		25/09/2012	660.0	460.0		200.0		
RING FREE	PAISLS		25/09/2012	23.0	14.0		9.0		
SAPP	SX		25/09/2012	80.0	19.0		61.0		
SAWDUST	SX		25/09/2012	1,890.0	655.0		1,235.0		
SOAP STICK	EACH		25/09/2012				0.0		
SODA ASH	SX		25/09/2012	108.0	36.0		72.0		
SULFAMIC ACID	SX		25/09/2012	40.0			40.0		
SUPER SWEEP	SX		25/09/2012	8.0	2.0		6.0		
WALNUT PLUG MEDIUM	SX		25/09/2012	280.0	4.0	150.0	126.0		
XCD POLYMER	SX		25/09/2012	111.0	57.0		54.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 26/09/2012, Report # 8.0, DFS: 9.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 273.00	End Depth (mKB) 273.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
22:30	Gel Chem	273.82	1,045.0	48	7.0	9.000	6.000	8.000	6.0	8.0	2.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
ALCOMER 120 LOS	PAIS		26/09/2012	20.0	12.0		8.0		
SAWDUST	SX		26/09/2012		7.0		1,228.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 27/09/2012, **Report #** 9.0, **DFS:** 10.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 273.00	End Depth (mKB) 273.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:00	Gel Chem		1,050.0	50	14.0	13.000	5.500	7.500	8.5	7.5	2.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 28/09/2012, Report # 10.0, DFS: 11.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 273.00	End Depth (mKB) 357.00	Depth Progress (m) 41.00	Drilling Hours (hr) 4.94	Avg ROP (m/hr) 8.3	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
22:45	Gel-Chem	280.00	1,060.0	49	0.0	13.000	5.500	7.500	8.5	9.5	2.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
DESCO CF	SX		28/09/2012		1.0		126.0		
SAPP	SX		28/09/2012		2.0		59.0		
SAPP	SX		28/09/2012		1.0		58.0		
SAWDUST	SX		28/09/2012		2.0		1,226.0		
SODA ASH	SX		28/09/2012		2.0		70.0		
SODA ASH	SX		28/09/2012		3.0		67.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 29/09/2012, Report # 11.0, DFS: 12.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 357.00	End Depth (mKB) 585.00	Depth Progress (m) 228.00	Drilling Hours (hr) 22.25	Avg ROP (m/hr) 10.2	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
22:00	Gel-Chem	543.00	1,110.0	50	0.0	13.000	4.500	6.000	6.0	9.5	4.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
ALCOMER 120 LOS	PAIS		29/09/2012		1.0		7.0		
DESCO CF	SX		29/09/2012		3.0		123.0		
DESCO CF	SX		29/09/2012		1.0		122.0		
FED PAC R	SX		29/09/2012		3.0		102.0		
FED PAC R	SX		29/09/2012		3.0		99.0		
SAWDUST	SX		29/09/2012		4.0		1,222.0		
SAWDUST	SX		29/09/2012		9.0		1,213.0		
SAWDUST	SX		29/09/2012		1.0		1,212.0		
SODA ASH	SX		29/09/2012		2.0		65.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 30/09/2012, Report # 12.0, DFS: 13.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 585.00	End Depth (mKB) 739.00	Depth Progress (m) 154.00	Drilling Hours (hr) 22.50	Avg ROP (m/hr) 6.8	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
22:00	Gel-Chem	729.00	1,165.0	48	0.0	14.000	5.000	7.000	6.5	9.5	5.5

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
DESCO CF	SX		30/09/2012		2.0		120.0		
DESCO CF	SX		30/09/2012		1.0		119.0		
FED PAC R	SX		30/09/2012		1.0		98.0		
FED PAC R	SX		30/09/2012		1.0		97.0		
SAWDUST	SX		30/09/2012		7.0		1,205.0		
SAWDUST	SX		30/09/2012		6.0		1,199.0		
SAWDUST	SX		30/09/2012		4.0		1,195.0		
SODA ASH	SX		30/09/2012		1.0		64.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 01/10/2012, Report # 13.0, DFS: 14.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 739.00	End Depth (mKB) 827.00	Depth Progress (m) 88.00	Drilling Hours (hr) 22.00	Avg ROP (m/hr) 4.0	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	820.00	1,180.0	43	0.0	11.000	4.000	6.000	6.5	9.5	7.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
DESCO CF	SX		01/10/2012		1.0		118.0		
FED PAC R	SX		01/10/2012		1.0		96.0		
SAPP	SX		01/10/2012		1.0		57.0		
SAWDUST	SX		01/10/2012		6.0		1,189.0		
SAWDUST	SX		01/10/2012		4.0		1,185.0		
SAWDUST	SX		01/10/2012		1.0		1,184.0		
SODA ASH	SX		01/10/2012		1.0		63.0		
SODA ASH	SX		01/10/2012		1.0		62.0		



Daily Mud

Well Name: **Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78** Report Date: **02/10/2012, Report # 14.0, DFS: 15.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 827.00	End Depth (mKB) 866.00	Depth Progress (m) 12.00	Drilling Hours (hr) 4.25	Avg ROP (m/hr) 2.8	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
23:50	Gel-Chem	832.00	1,240.0	43	0.0	9.500	4.000	6.000	6.0	9.0	11.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		02/10/2012		41.0		757.0		
FED PAC R	SX		02/10/2012		1.0		95.0		
SAWDUST	SX		02/10/2012		2.0		1,182.0		
SODA ASH	SX		02/10/2012		1.0		61.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 03/10/2012, Report # 15.0, DFS: 16.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 832.00	End Depth (mKB) 866.00	Depth Progress (m) 34.00	Drilling Hours (hr) 14.75	Avg ROP (m/hr) 2.3	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
16:00	Gel-Chem	862.00	1,155.0	44	0.0	12.500	5.500	7.500	6.2	9.0	8.5

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
DESCO CF	SX		03/10/2012		1.0		117.0		
DESCO CF	SX		03/10/2012		2.0		115.0		
FED PAC R	SX		03/10/2012		3.0		92.0		
SAWDUST	SX		03/10/2012		1.0		1,181.0		
SAWDUST	SX		03/10/2012		7.0		1,174.0		
SAWDUST	SX		03/10/2012		2.0		1,172.0		
SODA ASH	SX		03/10/2012		1.0		60.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 04/10/2012, **Report #** 16.0, **DFS:** 17.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 866.00	End Depth (mKB) 892.00	Depth Progress (m) 26.00	Drilling Hours (hr) 8.00	Avg ROP (m/hr) 3.3	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
08:00	Gel-Chem	892.00	1,155.0	51	0.0	12.500	5.500	7.500	6.0	9.0	8.5

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		04/10/2012		11.0		746.0		
FEDERAL GEL	SX		04/10/2012		10.0		190.0		
MILIZAN	SX		04/10/2012	120.0	2.0		118.0		
SAWDUST	SX		04/10/2012		5.0		1,167.0		



Daily Mud

Well Name: **Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78** Report Date: **05/10/2012, Report # 17.0, DFS: 18.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 892.50	End Depth (mKB) 910.50	Depth Progress (m) 18.00	Drilling Hours (hr) 5.50	Avg ROP (m/hr) 3.3	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
03:00	Gel-Chem	893.00	1,180.0	48	0.0	14.000	6.000	8.000	5.8	9.0	10.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
SODA ASH	SX		05/10/2012		3.0		57.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 06/10/2012, Report # 18.0, DFS: 19.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 928.00	End Depth (mKB) 955.00	Depth Progress (m) 27.00	Drilling Hours (hr) 10.50	Avg ROP (m/hr) 2.6	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	947.00	1,200.0	58	0.0	12.500	6.000	10.000	6.5	8.5	11.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
FED PAC R	SX		06/10/2012		4.0		88.0		
FEDERAL GEL	SX		06/10/2012		45.0		145.0		
LIME	SX		06/10/2012	50.0	1.0		49.0		
MILIZAN	SX		06/10/2012		2.0		116.0		
SODA ASH	SX		06/10/2012		2.0		55.0		
SODA ASH	SX		06/10/2012		3.0		52.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date: 07/10/2012, Report # 19.0, DFS: 20.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
06:00	Gel-Chem	955.00	1,260.0	101	0.0	23.000	12.500	18.000	7.0	8.5	14.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		07/10/2012		20.0		726.0		
FEDERAL GEL	SX		07/10/2012		15.0		130.0		
LIME	SX		07/10/2012		1.0		48.0		

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Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 08/10/2012, **Report #** 20.0, **DFS:** 21.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
08:00	Gel-Chem	955.00	1,240.0	129					10.0	6.0	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		08/10/2012		25.0		701.0		
SODA ASH	SX		08/10/2012		1.0		51.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 09/10/2012, Report # 21.0, DFS: 22.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks											
Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Volume (Additions and Losses)				
Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)				
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts									
Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Report Date: 10/10/2012, Report # 22.0, DFS: 23.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
12:30	Gel-Chem	955.00	1,250.0	75	0.0	17.500	12.500	19.000	8.5	8.0	14.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		10/10/2012		15.0		686.0		



Daily Mud

Well Name: **Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78** Report Date: **11/10/2012, Report # 23.0, DFS: 24.50**

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
11:45	Polymer	504.00	1,250.0	70					8.0	8.5	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Daily Mud

Report Date: 12/10/2012, Report # 24.0, DFS: 25.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
05:00	Gel-Chem		1,250.0	70						8.5	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		12/10/2012		10.0		676.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 13/10/2012, **Report #** 25.0, **DFS:** 26.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
00:00	Gel-Chem	955.00	1,255.0	150	0.0	34.500	18.000	36.000	7.0	8.5	14.0

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
Barite	SX		13/10/2012		20.0		656.0		
SODA ASH	SX		13/10/2012		2.0		49.0		



Daily Mud

Report Date: 14/10/2012, Report # 26.0, DFS: 27.50

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks

Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)
16:00	Gel-Chem	955.00	1,255.0	61						8.5	

Mud Volume (Additions and Losses)

Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts

Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)
ALCOMER 120 LOS	PAISLS		14/10/2012		1.0		6.0		
Barite	SX		14/10/2012		15.0		641.0		
Barite	SX		14/10/2012		11.0		630.0		
DESCO CF	SX		14/10/2012		2.0		113.0		
DESCO CF	SX		14/10/2012			15.0	98.0		
DESCO CF	SX		14/10/2012		3.0		95.0		
DETERGENT	PAISLS		14/10/2012	16.0	2.0		14.0		
FED PAC R	SX		14/10/2012		-2.0		90.0		
FED SEAL	SX		14/10/2012		1.0		248.0		
FEDERAL GEL	SX		14/10/2012		40.0		90.0		
MAGMA FIBER FINE	SX		14/10/2012	80.0			80.0		
MILIZAN	SX		14/10/2012		2.0		114.0		
M-I-X II MEDIUM	SX		14/10/2012	40.0			40.0		
RING FREE	PAISLS		14/10/2012		2.0		7.0		
SAPP	SX		14/10/2012			40.0	17.0		
SAPP	SX		14/10/2012		-3.0		20.0		
SAWDUST	SX		14/10/2012		12.0		1,155.0		
SAWDUST	SX		14/10/2012			150.0	1,005.0		
SAWDUST	SX		14/10/2012		109.0		896.0		
SODA ASH	SX		14/10/2012		5.0		44.0		
SODIUM BICARBONATE	SX		14/10/2012	48.0		48.0	0.0		
XCD POLYMER	SX		14/10/2012		28.0		26.0		



Daily Mud

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78 **Report Date:** 15/10/2012, Report # 27.0, DFS: 28.50

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	Field Name Chance	License # 1129	State/Province YT	Well Configuration Type Vertical
Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38	Spud Date 19/09/2012 01:00	Rig Release Date 15/10/2012 12:00

Start Depth (mKB) 955.00	End Depth (mKB) 955.00	Depth Progress (m) 0.00	Drilling Hours (hr)	Avg ROP (m/hr)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
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Mud Checks											
Time	Type	Depth (mKB)	Dens (kg/m³)	Vis (s/L)	PV OR (Pa*s)	YP OR (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Solids (%)

Mud Volume (Additions and Losses)				
Fluid	Action	To (m³)	From (m³)	Note

Mud Volume (Summary)				
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)

Mud Additive Amounts									
Des	Units	Field Est (Cost/unit)	Date	Rec	Consumed	Returned	On Loc	Daily Field Est (Cost)	Cum Field Est (Cost)



Leak Off & Formation Integrity Tests

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Leak Off and Formation Integrity Tests

Test Date	Typ	Depth (mKB)	TVD (mKB)	Fluid	Dens Fluid (kg/m ³)	P Surf Applied (kPa)	Vol Pumped (m ³)	Leak off?	P LeakOff (kPa)	Dens Fluid (kg/m ³)	Formation Tested	Last Casing String Run	Com
28/09/2012	Formation Integrity	278.00	278.00	Gel/polymer mud	1,060.0	6,000	0.03	No	8,890	3,260.8		Surface, 273.00mKB	Perform FLOT and achieved requested maximum ASP of 6000kPa (LOG = 32.38 kPa/m).



Mud Properties Summary

Job Type: Drilling - original; AFE#:

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Rigs								
Job Typ	Job SubTyp	Tgt Depth (mKB)	Target Frm	Contractor	Rig #	Rig Type	Start Date	RR Date

Mud Checks																												
Date	Depth (mKB)	Depth (TVD) (mKB)	Type	Dens (kg/m³)	Vis (s/L)	PV Calc (Pa*s)	YP Calc (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Barite (kg/m³)	CaCl (ppm)	Ca (mg/L)	Chlor (mg/L)	K	LGS (%)	Mg (mg/L)	MBT (kg/m³)	n	OW Ratio	Pf (mL/mL)	Solids (%)	Polymer	UltraHib (%)	KCl (kg/m³)		
20/09/2012	37.00	37.00	Gel-Chem	1,100.0	44	13.0	5.500	3.500	6.000	12.0	10.0				200.000	0.132	6.4		29	0.695	0/100	1.7						
21/09/2012	67.00	67.00	Gel-Chem	1,020.0	61	23.0	8.000	4.000	7.000	16.0	8.5				200.000	25.082			57	0.217		0.9						
22/09/2012	79.00	79.00	Gel-Chem	1,020.0	52	22.0	6.500	3.500	6.500	16.0	8.5				200.000	18.381			57	0.313		0.9						
23/09/2012	141.00	141.00	Gel Chem	1,060.0	90	12.0	16.000	9.000	11.000	6.0	8.5				300.000	0.697	3.8		42	0.485	0/100	0.4	3.0					
24/09/2012	260.00	260.00	Gel Chem	1,040.0	60	11.0	13.500	8.000	10.000	6.0	8.5				200.000	0.222	2.0			0.509	0/100	0.3						
25/09/2012	273.00	273.00	Gel-Chem	1,040.0	70	8.0	14.500	8.000	10.000	6.0	8.0				200.000	1.806	2.3		28	0.415		0.2						
26/09/2012	273.82	273.82	Gel Chem	1,045.0	48	7.0	9.000	6.000	8.000	6.0	8.0				200.000	0.366	1.3		28	0.497	0/100	0.2	2.0					
27/09/2012			Gel Chem	1,050.0	50	14.0	13.000	5.500	7.500	8.5	7.5				200.000	0.35	3.2			0.585		0.7	2.0					
28/09/2012	280.00	280.00	Gel-Chem	1,060.0	49	0.0	13.000	5.500	7.500	8.5	9.5				200.000	0.35	3.2		21	0.585	0/100	0.7	2.0	PHPA	0.90			
29/09/2012	543.00	542.93	Gel-Chem	1,110.0	50	0.0	13.000	4.500	6.000	6.0	9.5				200.000	27.108	6.7		14	0.324	0/100	0.9	4.0	PHPA	0.70			
30/09/2012	729.00	728.86	Gel-Chem	1,165.0	48	0.0	14.000	5.000	7.000	6.5	9.5			60.000	200.000	30.634	10.4		21	0.313	0/100	1.2	5.5		1.30			
01/10/2012	820.00	819.80	Gel-Chem	1,180.0	43	0.0	11.000	4.000	6.000	6.5	9.5			60.000	200.000	19.771	11.0		21	0.363	0/100	1.3	7.0		1.30			
02/10/2012	832.00	831.79	Gel-Chem	1,240.0	43	0.0	9.500	4.000	6.000	6.0	9.0				200.000	20.984	14.7		98	0.327	0/100	0.7	11.0		1.20			
03/10/2012	862.00	861.76	Gel-Chem	1,155.0	44	0.0	12.500	5.500	7.500	6.2	9.0			60.000	200.000	1.261	9.5		70	0.443	0/100	0.5	8.5	PHPA	1.20			
04/10/2012	892.00	891.73	Gel-Chem	1,155.0	51	0.0	12.500	5.500	7.500	6.0	9.0			60.000	200.000	1,261.0	9.5		70	0.443	0/100	0.5	8.5	PHPA	1.20			
05/10/2012	893.00	892.73	Gel-Chem	1,180.0	48	0.0	14.000	6.000	8.000	5.8	9.0			60.000	200.000	1.488	10.4		70	0.432	0/100	0.4	10.0		1.20			
06/10/2012	947.00	946.68	Gel-Chem	1,200.0	58	0.0	12.500	6.000	10.000	6.5	8.5				200.000	0.841	11.6		77	0.531	0/100	0.3	11.0	PHPA	1.20			
07/10/2012	955.00	954.68	Gel-Chem	1,260.0	101	0.0	23.000	12.500	18.000	7.0	8.5				200.000	2.107	14.7		120	0.463	0/100	0.2	14.0	PHPA	1.20			
08/10/2012	955.00	954.68	Gel-Chem	1,240.0	129					10.0	6.0																	
10/10/2012	955.00	954.68	Gel-Chem	1,250.0	75	0.0	17.500	12.500	19.000	8.5	8.0				200.000	1.831	14.7		113	0.435	0/100	0.2	14.0	PHPA	1.10			



Mud Properties Summary

Job Type: Drilling - original; AFE#:

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

Mud Checks

Date	Depth (mKB)	Depth (TVD) (mKB)	Type	Dens (kg/m ³)	Vis (s/L)	PV Calc (Pa*s)	YP Calc (Pa)	Gel (10s) (Pa)	Gel (10m) (Pa)	Filtrate (mL/30min)	pH	Barite (kg/m ³)	CaCl (ppm)	Ca (mg/L)	Chlor (mg/L)	K	LGS (%)	Mg (mg/L)	MBT (kg/m ³)	n	OW Ratio	Pf (mL/mL)	Solids (%)	Polymer	UltraHib (%)	KCl (kg/m ³)	
11/10/2012	504.00	503.94	Polymer	1,250.0	70					8.0	8.5																
12/10/2012			Gel-Chem	1,250.0	70						8.5																
13/10/2012	955.00	954.68	Gel-Chem	1,255.0	150	0.0	34.500	18.000	36.000	7.0	8.5				200.000	4.185	15.0		127	0.404	0/100	0.2	14.0	PHPA	1.10		
14/10/2012	955.00	954.68	Gel-Chem	1,255.0	61						8.5																

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN11_20120918_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 18
 License No: 1129, Well Name: NCF E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON, Contractor: NORTHERN CROSS YUKON, Rig No: 1, Well Type: VERT
 Operator's AFE: 1C-O20-D02, Contractor's Job No: 1, Spud Date Time: 2012/09/19 01:00
 Signature of Operator Representative: ROD BEREZAY, Signature of Contractor's Rig Manager: Duncan Dittrick, Rig Release Date Time: []

DAILY CHECKS

1) Daily Walk Around Inspection	SB	DD
2) Detailed Inspection - Weekly (Using Check List)	SB	DD
3) H2S Signs Posted if Required	RB	DD
4) Well License & Stick Diagram Posted	RB	DD
5) Flare Lines Staked	RB	DD
6) BOP Drills Performed	RB	DD
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	RB	DD
1) Rig Site Health & Safety Meeting (one/crew/month)	DD	
2) CAODC Rig Safety Inspection Checklist (one/rig/month)	DD	
3) Mast Inspection before Raising or Lowering	DD	
4) Crown Saver Checked	DD	
5) Motor Kills Checked	DD	



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1	1.00				5.75																0.50				0.75	8.00
Tour 2	6.50	2.25			1.25	1.75															0.25					12.00
Tour 3					4.00																					4.00
Total	7.50	2.25			11.00	1.75															0.75				0.75	24.00

FUEL @ 08:00 HOURS

Rig	12200.00	Blower	3200.00
Time	06:00	Temp	8.00
Current Conditions	CLEAR	Wind Direction	SW
Wind Strength	UP TO 35 KM/H	Wind Condition	GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS					TIME LOG							
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other			01:30					00:00	00:45	0:75	25	CHANGE 3" VALVE PUMP #1 DISCHARGE	
IADC Code							Time			01:30					00:45	01:30	0:75	5A	FUNCTION AND CIRCULATE PUMP#1 AND #2.	
Manufacturer							Density			01:30	01:45				01:30	01:45	0:25	21B	REVIEW JSA ON MAKING MUD	
Type							Funnel Viscosity			01:45	06:45				01:45	06:45	5:00	5	REMIX MUD, TONG MONTEFACE REMOVE ALL JAWS/PINS, LEVEL	
Serial No							Fluid Loss			06:45	07:00				06:45	07:00	0:25	21	SAFETY MEETING AND HAND OVER WITH BOTH CREWS RM, COMPANY REP AND TORISHIMA	
Jets							pH			07:00	08:00				07:00	08:00	1:00		RIG UP TO SPUD. ASSIST WELDER WITH GUARD REPAIRS	
Depth Out (m)							Location of Sample			SOLIDS CONTROL					REMARKS: VISUAL INSPECTION OF DRAWWORKS					
Depth In (m)							Depth			Equipment Name					VISUAL INSPECTION OF BRAKE SYSTEM					
Total Drilled (m)							PVT			Hours Run					FUNCTION TEST CROWN SAVER AND SET UPPER AND LOWER LIMIT					
Hrs Run Today										Intake Density					SAFETY MEETING WITH NORTHERN CROSS, PATTERSON AND TORISHIMA					
Cumulative Hrs Run										Over Flow Density					SAFETY					
Entry Date										Under Flow Density					Safety Topic					
															MEHL					
															MACP					
															DRILLING MOUSE HOLE					

TOUR 2 SIGNATURE OF DRILLER Chris Windong **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS					TIME LOG							
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								08:00	14:30	6:50	1	RIG UP REVIEW THAT ALL GUARDS AND LOCKOUT ARE IN PLACE AND PERFORMED PROPERLY	
IADC Code							Time								14:30	16:45	2:25	2A	DRILL MOUSEHOLE	
Manufacturer							Density								16:45	18:00	1:25	5A	BUILD VOLUME	
Type							Funnel Viscosity								18:00	19:45	1:75	5C	MAKE UP BIT, MAKE UP BHA FOR CONDUCTOR BBL	
Serial No							Fluid Loss								19:45	20:00	0:25	21	SAFETY MEETING AND HAND OVER WITH BOTH CREWS, RM COMPANY REP AND TORISHIMA	
Jets							pH			SOLIDS CONTROL					REMARKS: CREW CHANGE HAND OVER MEETING					
Depth Out (m)							Location of Sample			Equipment Name					SAFETY MEETING WITH THE CREW ON LOCK OUT, TAG OUT AND ALL GUARDS BEING IN PLACE					
Depth In (m)							Depth			Hours Run					DAILY WALK AROUND					
Total Drilled (m)							PVT			Intake Density					VISUALLY INSPECTED DRAW WORKS AND BRAKE SYSTEM					
Hrs Run Today										Over Flow Density					SAFETY					
Cumulative Hrs Run										Under Flow Density					Safety Topic					
Entry Date															MEHL					
															MACP					
															GUARDS IN PLACE, LOCK OUT, TAG OUT					

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS					TIME LOG							
Bit Number	1A	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size	445						Other								20:00	24:00	4:00	5A	PREPARE MUD SYSTEM	
IADC Code							Time													
Manufacturer							Density													
Type							Funnel Viscosity													
Serial No							Fluid Loss													
Jets							pH			SOLIDS CONTROL					REMARKS: VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM					
Depth Out (m)							Location of Sample			Equipment Name					DRILLERS WALK AROUND=OK					
Depth In (m)							Depth			Hours Run					REVIEW JSA DRIFTING CASING					
Total Drilled (m)							PVT			Intake Density										
Hrs Run Today										Over Flow Density					SAFETY					
Cumulative Hrs Run	0.00									Under Flow Density					Safety Topic					
Entry Date															MEHL					
															MACP					
															DRIFTING CASING					

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20120919_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 19
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1, Well Type: VERT
 Operator's AFE: 1C-O20-D02
 Contractor's Job No: 1
 Signature of Operator Representative: ROD BEREZAY
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Spud Date Time: 2012/09/19 01:00
 Rig Release Date Time: []

DAILY CHECKS

1) Daily Walk Around Inspection	SB	DD
2) Detailed Inspection - Weekly (Using Check List)	SB	DD
3) H2S Signs Posted if Required	RB	DD
4) Well License & Stick Diagram Posted	RB	DD
5) Flare Lines Staked	RB	DD
6) BOP Drills Performed	RB	DD
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	RB	DD
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Killis Checked		



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		3.50			1.50	2.25	0.25				0.25										0.25					8.00
Tour 2					0.25	1.00	0.25					4.00	4.50								0.75		0.75			12.00
Tour 3														3.25							0.50					4.00
Total		3.50			1.75	3.25	0.50				0.25	4.00	4.50	3.25							1.50		0.75			24.00

FUEL @ 08:00 HOURS

Rig	Time	Temp
11300.00	06:00	9.60
11300.00		

WEATHER

Current Conditions	Wind Direction	Wind Strength
CLEAR	SW	UP TO 39 KM/H

Barometric Pressure: 1013.0 hPa
 Humidity: 65%
 Visibility: 10.0 km
 Clouds: 0%
 Dew Point: 1.0 C

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 1A	Size: 444	No: 1	Component: BIT	OD: 445	ID: .28m	Mud Type: Water	Time: 06:15	Depth: 26.05m	Deviation: .25
IADC Code: 1	Manufacturer: SECURITY	No: 2	Component: SUB	OD: 197	ID: .91m	Other: Oil	Time: 06:30	Depth: 26.05m	Deviation: 0
Type: k511tgb	Serial No: 20210	No: 3	Component: DC (8.00 IN)	OD: 200	ID: 75	Density: 1050	Time: 06:45	Depth: 26.05m	Deviation: 0
Jets: []	Depth Out (m): 26	No: 4	Component: DC (8.00 IN)	OD: 200	ID: 75	Funnel Viscosity: 50s/l	Time: 07:00	Depth: 26.05m	Deviation: 0
Depth In (m): 0	Total Drilled (m): 26	No: 5	Component: DC (8.00 IN)	OD: 200	ID: 75	Fluid Loss: 8	Time: 07:15	Depth: 26.05m	Deviation: 0
Hrs Run Today: 3.50	Cumulative Hrs Run: 3.50	No: 6	Component: PUMPOUT SUB	OD: 152	ID: 71	pH: 8	Time: 07:30	Depth: 26.05m	Deviation: 0
Entry Date: []		No: 7	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	Location of Sample: Shaker	Time: 07:45	Depth: 26.05m	Deviation: 0
		No: 8	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	Depth: 13.24m	Time: 08:00	Depth: 26.05m	Deviation: 0
		No: 9	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	PVT: 44.2m3	Time: []	Depth: 26.05m	Deviation: 0
		No: 10	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 11	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 12	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 13	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 14	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 15	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 16	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 17	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 18	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 19	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 20	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 21	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 22	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 23	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 24	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 25	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0

TOUR 2 SIGNATURE OF DRILLER Chris Winkler **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 1A	Size: 444	No: 1	Component: BIT	OD: 445	ID: .28m	Mud Type: Water	Time: 08:00	Depth: 26.05m	Deviation: 0
IADC Code: 1	Manufacturer: SECURITY	No: 2	Component: SUB	OD: 197	ID: .91m	Other: Oil	Time: 08:15	Depth: 26.05m	Deviation: 0
Type: k511tgb	Serial No: 20210	No: 3	Component: DC (8.00 IN)	OD: 200	ID: 75	Density: 1100	Time: 08:30	Depth: 26.05m	Deviation: 0
Jets: []	Depth Out (m): 26	No: 4	Component: DC (8.00 IN)	OD: 200	ID: 75	Funnel Viscosity: 13s/l	Time: 08:45	Depth: 26.05m	Deviation: 0
Depth In (m): 0	Total Drilled (m): 26	No: 5	Component: DC (8.00 IN)	OD: 200	ID: 75	Fluid Loss: 8	Time: 09:00	Depth: 26.05m	Deviation: 0
Hrs Run Today: 3.50	Cumulative Hrs Run: 3.50	No: 6	Component: PUMPOUT SUB	OD: 152	ID: 71	pH: 8.0	Time: 09:15	Depth: 26.05m	Deviation: 0
Entry Date: []		No: 7	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	Location of Sample: SHAKER	Time: 09:30	Depth: 26.05m	Deviation: 0
		No: 8	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	Depth: 26.05m	Time: 09:45	Depth: 26.05m	Deviation: 0
		No: 9	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	PVT: 40.6m3	Time: 10:00	Depth: 26.05m	Deviation: 0
		No: 10	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 11	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 12	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 13	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 14	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 15	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 16	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 17	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 18	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 19	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 20	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 21	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 22	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 23	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 24	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 25	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 1A	Size: 444	No: 1	Component: BIT	OD: 445	ID: .28m	Mud Type: Water	Time: 20:00	Depth: 26.05m	Deviation: 0
IADC Code: 1	Manufacturer: SECURITY	No: 2	Component: SUB	OD: 197	ID: .91m	Other: Oil	Time: 20:15	Depth: 26.05m	Deviation: 0
Type: k511tgb	Serial No: 20210	No: 3	Component: DC (8.00 IN)	OD: 200	ID: 75	Density: 1100	Time: 20:30	Depth: 26.05m	Deviation: 0
Jets: []	Depth Out (m): 26	No: 4	Component: DC (8.00 IN)	OD: 200	ID: 75	Funnel Viscosity: 50s/l	Time: 20:45	Depth: 26.05m	Deviation: 0
Depth In (m): 0	Total Drilled (m): 26	No: 5	Component: DC (8.00 IN)	OD: 200	ID: 75	Fluid Loss: 8	Time: 21:00	Depth: 26.05m	Deviation: 0
Hrs Run Today: 3.50	Cumulative Hrs Run: 3.50	No: 6	Component: PUMPOUT SUB	OD: 152	ID: 71	pH: 8	Time: 21:15	Depth: 26.05m	Deviation: 0
Entry Date: []		No: 7	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	Location of Sample: Shaker	Time: 21:30	Depth: 26.05m	Deviation: 0
		No: 8	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	Depth: 47.3m3	Time: 21:45	Depth: 26.05m	Deviation: 0
		No: 9	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m	PVT: 48m3	Time: 22:00	Depth: 26.05m	Deviation: 0
		No: 10	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 11	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 12	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 13	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 14	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 15	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 16	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 17	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 18	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 19	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 20	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 21	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 22	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 23	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 24	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0
		No: 25	Component: KELLY DOWN	OD: 0.00m	ID: 0.00m		Time: []	Depth: 26.05m	Deviation: 0

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Tour Sheet Serial Number JKN11_20120919_1E	Vendor Software Version Pason	Year 2012	Month 09	Day 19
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1	Well Type VERT	
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick		Rig Release Date Time		

DAILY CHECKS

1) Daily Walk Around Inspection	OP	RM
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted if Required		
4) Well License & Stick Diagram Posted		
5) Flare Lines Staked		
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines		

1) Rig Site Health & Safety Meeting (one/crew/month)
2) CAODC Rig Safety Inspection Checklist (one/rig/month)
3) Mast Inspection before Raising or Lowering
4) Crown Saver Checked
5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	FUEL @ 08:00 HOURS
Tour 1		3.50			1.50	2.25	0.25				0.25										0.25					8.00
Tour 2					0.25	1.00	0.25					4.00	4.50								0.75		0.75			12.00
Tour 3														3.25							0.50				0.25	4.00
Total		3.50			1.75	3.25	0.50			0.25		4.00	4.50	3.25							1.50		0.75		0.75	24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	No Component OD ID Length Drill Pipe Stands Drill Pipe Singles Kelly Down Total Weight of DC Weight of String	Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run REDUCED PUMP SPEED Hole Drag Up Down Torque at Bottom Fill on Bottom	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type Boiler Boiler # Hours Run pH Stack Temp	From To Elapsed Code Details of Operations in Sequence & Remarks SAFETY Safety Topic MEHL MACP WIRELINE SURVEY

TOUR 2 SIGNATURE OF DRILLER Chris Win... **START TIME** 08:00 **END TIME** 20:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	No Component OD ID Length Drill Pipe Stands Drill Pipe Singles Kelly Down Total Weight of DC Weight of String	Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run REDUCED PUMP SPEED Hole Drag Up Down Torque at Bottom Fill on Bottom	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type Boiler Boiler # Hours Run pH Stack Temp	From To Elapsed Code Details of Operations in Sequence & Remarks Remarks: PRE JOB MEETING RIG UP POWER TONG HANDS TOOLS.RIG UP TONG TOOLS SAFETY MEETING WITH CREW AND TONG HAND ON RUNNING CASING RUN IN CASING RIG OUT POWER TONGS SAFETY Safety Topic MEHL MACP Laying down collars

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	No Component OD ID Length Drill Pipe Stands Drill Pipe Singles Kelly Down Total Weight of DC Weight of String	Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run REDUCED PUMP SPEED Hole Drag Up Down Torque at Bottom Fill on Bottom	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type Boiler Boiler # Hours Run pH Stack Temp	From To Elapsed Code Details of Operations in Sequence & Remarks Remarks: SAFETY Safety Topic MEHL MACP PICKING DIVERTER

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120919_1E Vendor: Pason Software Version: 2012 09 19



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** GEL CHEM **WATER** x **OIL** **OTHER**

Time	00:30	02:15	04:15	06:15													
Density	1050kg/m3	1070kg/m3	1100kg/m3	1100kg/m3													
Funnel Viscosity	50s/l	55s/l	60s/l	60s/l													
Fluid Loss																	
Fluid pH	8	8	8	8													
Location of Sample	Shaker	Shaker	Shaker	Shaker													
Depth		13.24m	23.90m														
PVT		44.2m3	40.5m3	39.7m3													
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120919_1E Vendor: Pason Software Version: 2012 09 19



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative ROD BEREZAY	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR 2	MUD TYPE GELCHEM	WATER <input checked="" type="checkbox"/>	OIL <input type="checkbox"/>	OTHER <input type="checkbox"/>
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Time	08:00	12:00															
Density	1100kg/m3	1090kg/m3															
Funnel Viscosity	63s/l	53s/l															
Fluid Loss																	
Fluid pH	8.0	8.5															
Location of Sample	SHAKER	SHAKER															
Depth	26.05m	26.05m															
PVT	40.6m3	40.0m3															
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120919_1E Vendor: Pason Software Version: 2012 09 19



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative ROD BEREZAY	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR 3 **MUD TYPE** Gel Chem **WATER** x **OIL** **OTHER**

Time	20:00	22:00																		
	Density	1100kg/m3	1100kg/m3																	
Funnel Viscosity	50s/l	50s/l																		
Fluid Loss																				
Fluid pH	8	8																		
Location of Sample	Shaker	Shaker																		
Depth																				
PVT	47.3m3	48m3																		
Test 1	Type (Ex: Chlorides)																			
	Value																			
Test 2	Type (ex: Sand%)																			
	Value																			
Test 3	Type (ex: Hard Ca)																			
	Value																			
Test 4	Type (ex: Sulfides)																			
	Value																			

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN11_20120920_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 20
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1, Well Type: VERT
 Operator's AFE: 1C-O20-D02
 Contractor's Job No: 1
 Signature of Operator Representative: ROD BEREZAY
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Spud Date Time: 2012/09/19 01:00
 Rig Release Date Time: []

DAILY CHECKS

1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well License & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 8) Motor Kills Checked
 9) Rig Site Health & Safety Meeting (one/crew/month)
 10) CAODC Rig Safety Inspection Checklist (one/rig/month)
 11) Mast Inspection before Raising or Lowering
 12) Crown Saver Checked
 13) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1							0.25								3.00						0.25		3.50		1.00	8.00
Tour 2	4.00					3.75	0.25														0.25				2.75	11.00
Tour 3		3.00					0.25														0.50				0.25	4.00
Total	4.00	3.00				3.75	0.75								3.00						1.00		3.50		4.00	23.00

FUEL @ 08:00 HOURS

Rig	Time	Temp
9600.00	06:00	3234.00
	06:00	11.50

WEATHER

Current Conditions	Wind Direction	Wind Strength	Cloud Condition
PARTLY CLOUDY	SE	UP TO 39 KM/H	GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY			MUD RECORD		DEVIATION SURVEYS				TIME LOG										
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks		
Size							Other			04:00					00:00	03:00	3:00	H4	NIPPLE UP DIVERTER		
IADC Code							Time			11:00					03:00	06:30	3:50	Z3L	LAY DOWN FLOW LINE MODIFICATION, RE-DRILL MOUSE HOLE, BREAK DOWN MOUSE		
Manufacturer							Density			55s/l					06:30	06:45	0:25		DRILLING ASSEMBLY AND LAY DOWN MOUSE HOLE.		
Type							Funnel Viscosity			8					06:45	07:00	0:25	Z1	RIG SERVICE		
Serial No							Fluid Loss			Shaker					07:00	08:00	1:00	Z5	SAFETY MEETING AND HAND OVER WITH BOTH CREWS RM AND COMPANY REP		
Jets							pH			48m3										MODIFY FLOW T WITH WELDER	
Depth Out (m)							Location of Sample													Remarks: FUNCTION CROWN SAVER AND SET HIGH AND LOW POINT	
Depth In (m)							Depth													VISUAL INSPECTION OF DRAWWORKS AND BRAKE ASSEMBLY	
Total Drilled (m)							PVT													DRILLERS WALK AROUND=OK	
Hrs Run Today																				REVIEW JSA ON LIFTING FLOW LINE	
Cumulative Hrs Run																				SAFETY	
Entry Date																				Safety Topic	
																				MEHL	
																				MACP	
																				LIFTING AND INSTALLING FLOW LINE	

TOUR 2 SIGNATURE OF DRILLER Chris Winkler **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY			MUD RECORD		DEVIATION SURVEYS				TIME LOG										
Bit Number	1	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks		
Size	311						Other			14:30	18:00				08:00	12:00	4:00	H1	RIG UP DIVERTER, MODIFIED FLOW NIPPLE FOR FLOW LINE		
IADC Code	1 1 7 S						Time			1085	1080				12:00	13:00	1:00	Z5	PICK UP MOUSE HOLE		
Manufacturer	KING DREAM						Density			60s/l	53s/l				13:00	16:45	3:75	BC	PICK UP BHA FOR 311.00 SURFACE HOLE		
Type	EGIHGLC						Funnel Viscosity			8.0	8.0				16:45	17:00	0:25	Z1D	PRE-JOB SAFETY ON RUNNING IN THE HOLE		
Serial No	L00009						Fluid Loss			SHAKER	SHAKER				17:00	17:15	0:25	Z7	RIG SERVICE		
Jets	22.0 22.0 22.0 20.0						pH			26.05m	26.05m				17:15	19:00	1:75	Z5	CHANGE OUT TUGGER LINE		
Depth Out (m)							Location of Sample													Remarks: CREW SAFETY MEETING TOPIC INSTALLING FLOW NIPPLE AND TAKING IT OUT	
Depth In (m)							Depth													VISUAL INSPECT BRAKES, FUNCTION CROW SAVER, SET UPPER, LOWER LIMIT	
Total Drilled (m)							PVT													PRE DRILL OUT WALK AROUND	
Hrs Run Today																				FUNCTION TEST ACCUMULATOR	
Cumulative Hrs Run	0.00																			SAFETY	
Entry Date	2012/09/20																			Safety Topic	
																				MEHL	
																				MACP	

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY			MUD RECORD		DEVIATION SURVEYS				TIME LOG										
Bit Number	1	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks		
Size	311						Other			20:00	23:30				20:00	20:15	0:25	Z1	SAFETY MEETING AND HAND OVER WITH RM AND COMPANY REP		
IADC Code	1 1 7 S						Time			1100	1100				20:15	20:30	0:25	Z1A	BOP DRILL WITH RIG CREW RM AND COMPANY REP		
Manufacturer	KING DREAM						Density			60s/l	53s/l				20:30	20:45	0:25	Z5	TROUBLE SHOOT PLC		
Type	EGIHGLC						Funnel Viscosity			8	10.5				20:45	22:15	1:50	ZC	TAG CEMENT @ 16.5m / DRILL OUT CEMENT TO 26m		
Serial No	L00009						Fluid Loss			Suction Tank	Shaker				22:15	22:30	0:25	Z7	RIG SERVICE		
Jets	22.0 22.0 22.0 20.0						pH			49m3	41.5m3				22:30	24:00	1:50	Z2	DRILL 311mm HOLE FROM 26m TO 39m		
Depth Out (m)							Location of Sample													Remarks: VISUAL INSPECTION OF DRWORKS AND BRAKE SYSTEM	
Depth In (m)							Depth													FUNCTION CROWN SAVER AND SET HIGH AND LOW LIMIT	
Total Drilled (m)							PVT													REVIEW JSA ON PICKING UP DRILL COLLARS	
Hrs Run Today	4.00																			TAG CEMENT @ 16.5M	
Cumulative Hrs Run	4.00																			SAFETY	
Entry Date	2012/09/20																			Safety Topic	
																				MEHL	
																				MACP	

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20120921_1E Vendor Software Version: Pason Year: 2012 Month: 09 Day: 21
 License No: 1129 Well Name: NCF E Chance E-78 Surface Location: 66:07:18.56N/137:14:46.88W Prov: YT Loc Type: LAT-LONG Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON Contractor: NORTHERN CROSS YUKON Rig No: 1 Well Type: VERT
 Operator's AFE: 1C-O20-D02 Contractor's Job No: 1 Spud Date Time: 2012/09/19 01:00
 Signature of Operator Representative: ROD BEREZAY Signature of Contractor's Rig Manager: Duncan Dittrick Rig Release Date Time:

DAILY CHECKS

1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well License & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Crown Saver Checked
 5) Motor Kill Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	FUEL @ 08:00 HOURS
Tour 1		4.00			3.50						0.25										0.25					8.00
Tour 2		1.00			7.50	3.50																				12.00
Tour 3					3.75																0.25					4.00
Total		5.00			14.75	3.50					0.25										0.50					24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG											
Bit Number: 1	Size: 311	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.31m	Time: 06:00	Depth: 50m	Deviation: 8	Direction: 0	Type: WIRELINE	From: 00:00	To: 02:15	Elapsed: 2.25	Code: 2.25Z	DRILL 311mm HOLE FROM 39m TO 52m			
IADC Code: 1 1 1 7 S	Manufacturer: KING DREAM	4DC (8.00 IN): 206	72	36.25m	Funnel Viscosity: 55s/l	48s/l	Time: 01:30	04:00	Density: 1080	1080	02:15	04:45	2.50	2.50Z	CLEAN OUT MUD RING WORK PIPE LAY DOWN ONE COLLAR				
Type: EGIHGLC	Serial No: L00009	1X/O: 197	77	0.79m	Fluid Loss: 10	9	04:45	05:45	1.00S	CONDITION MUD RING UP VIS WORK PIPE									
Jets: 22.0 22.0 22.0 20.0	1DC (6.50 IN): 163	60	12.82m	Location of Sample: Shaker	05:45	06:00	0.25	0.25Z	WIRELINE SURVEYS - INGL SHOT										
Depth Out (m): 26	2DC (6.50 IN): 163	59	12.82m	Depth: 49.97m	06:00	06:45	0.75Z	DRILL 311mm HOLE FROM 52m TO 64m											
Depth In (m): 26	1DC (6.50 IN): 163	59	12.82m	PVT: 41.6m3	06:45	07:00	1.25Z	SAFETY MEETING AND HAND OVER WITH BOTH CREWS RM AND COMPANY REP											
Total Drilled (m): 26					07:00	08:00	1.00Z	CLEAN MUD RING											
Hrs Run Today: 3.00					SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density:														
Cumulative Hrs Run: 7.00					MUD MATERIALS ADDED Product: Amount: Type:														
Entry Date: 2012/09/20					SAWDUST: 1 0 SX SODA ASH: 2 1 SX DETERGENT: 1 1 PA/S SAPP: 2 1 SX RING-FREE: 1 1 PA/S														
					CUTTING STRUCTURE TI: Gage TO: ODC MDC: Reason Pulled LOC: Total Run (m/hr) BRG:														
					METRES DRILLED From: To: D-R-C: RPM: WOB: 39m: 64m: DRILL: 100: 3kdaN														
					HOLE CONDITION Kelly Down: 0.00m Total: 76.69m Weight of DC: 0.00m Weight of String: 0.00m														
					REDUCED PUMP SPEED Pump No.: Pressure: Strokes/min: Depth: @ @ @ @ @ @														
					Boiler Boiler #: Hours Run: pH: Stack Temp:														
					SAFETY Safety Topic: MAKING A CONNECTION MEHL: 14.00kdaN MACP:														

TOUR 2 SIGNATURE OF DRILLER Chris Winkler **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG											
Bit Number: 1	Size: 311	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Time: 08:30	Depth: 0	Deviation: 0	Direction: 0	Type: WIRELINE	From: 08:00	To: 09:00	Elapsed: 1.00Z	Code: 1.00Z	CLEAN MUD RING			
IADC Code: 1 1 1 7 S	Manufacturer: KING DREAM	4DC (8.00 IN): 206	72	36.25m	Funnel Viscosity: 1070	1050	09:00	12:30	3.50	3.50Z	LAY OUT DRILL COLLARS TO BIT & CLEAN MUD RING OFF								
Type: EGIHGLC	Serial No: L00009	1X/O: 197	77	0.79m	Fluid Loss: 65.24m	65.34m	12:30	20:00	7.50	7.50Z	BUILD VOLUME AND CONDITION MUD WAIT ON WELDER TO REPAIR MUD PUMP								
Jets: 22.0 22.0 22.0 20.0	1JARS-HYD/MECH: 171	67	4.96m	Location of Sample: SHAKER	SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density:														
Depth Out (m): 26	2DC (6.50 IN): 163	60	2.64m	Depth: 65.24m	MUD MATERIALS ADDED Product: Amount: Type:														
Depth In (m): 26	1JARS-HYD/MECH: 171	67	4.96m	PVT: 8.5m3	BENTONITE: 50 SX saap: 2 SX KELZAN: 1 SX RING-FREE: 4 PA/S SAWDUST: 50 SX														
Total Drilled (m): 4.50					CUTTING STRUCTURE TI: Gage TO: ODC MDC: Reason Pulled LOC: Total Run (m/hr) BRG:														
Hrs Run Today: 4.50					METRES DRILLED From: To: D-R-C: RPM: WOB: 60.83m: 65.24m: DRILL: 100: 4.5kdaN														
Cumulative Hrs Run: 7.50					HOLE CONDITION Kelly Down: 0.00m Total: 68.82m Weight of DC: 0.00m Weight of String: 0.00m														
Entry Date: 2012/09/20					REDUCED PUMP SPEED Pump No.: Pressure: Strokes/min: Depth: @ @ @ @ @ @														
					Boiler Boiler #: Hours Run: pH: Stack Temp:														
					SAFETY Safety Topic: TRIPPING OUT OF THE HOLE LAYING DOWN COLLARS MEHL: 0.00kdaN MACP:														

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG											
Bit Number: 1	Size: 311	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Time: 23:00	Depth: 0	Deviation: 0	Direction: 0	Type: WIRELINE	From: 20:00	To: 20:15	Elapsed: 0.25Z	Code: 0.25Z	SAFETY MEETING AND HAND OVER WITH BOTH CREWS, RM AND COMPANY REP			
IADC Code: 1 1 1 7 S	Manufacturer: KING DREAM	4DC (8.00 IN): 206	72	36.25m	Funnel Viscosity: 60s/l		20:15	24:00	3.75	3.75Z	CHANGE OUT SHAKER SCREENS, REPAIR LINER WASH, RAISE MAX TORQUE SETTING ON TOP DRIVE, CONDITION MUD AND PREPARE PREMIX								
Type: EGIHGLC	Serial No: L00009	1X/O: 197	77	0.79m	Fluid Loss: 45m3		SOLIDS CONTROL Equipment Name: Hours Run: Intake Density: Over Flow Density: Under Flow Density:												
Jets: 22.0 22.0 22.0 20.0	2DC (6.50 IN): 163	60	25.64m	Location of Sample: Shaker	MUD MATERIALS ADDED Product: Amount: Type:														
Depth Out (m): 26	1JARS-HYD/MECH: 171	67	4.96m	Depth: 45m3	CUTTING STRUCTURE TI: Gage TO: ODC MDC: Reason Pulled LOC: Total Run (m/hr) BRG:														
Depth In (m): 26					METRES DRILLED From: To: D-R-C: RPM: WOB:														
Total Drilled (m): 0.00					HOLE CONDITION Kelly Down: 0.00m Total: 68.82m Weight of DC: 0.00m Weight of String: 0.00m														
Hrs Run Today: 0.00					REDUCED PUMP SPEED Pump No.: Pressure: Strokes/min: Depth: @ @ @ @ @ @														
Cumulative Hrs Run: 7.50					Boiler Boiler #: Hours Run: pH: Stack Temp:														
Entry Date: 2012/09/20					SAFETY Safety Topic: MIXING MUD MEHL: 0.00kdaN MACP:														

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Tour Sheet Serial Number JKN11_20120921_1E	Vendor Software Version Pason	Year 2012	Month 09	Day 21
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1	Well Type VERT	
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Spud Date Time 2012/09/19 01:00		Re-Entry <input type="checkbox"/>
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick		Rig Release Date Time		

DAILY CHECKS

1) Daily Walk Around Inspection	OP	RM
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted if Required		
4) Well License & Stick Diagram Posted		
5) Flare Lines Staked		
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines		

1) Rig Site Health & Safety Meeting (one/crew/month)
2) CAODC Rig Safety Inspection Checklist (one/rig/month)
3) Mast Inspection before Raising or Lowering
4) Crown Saver Checked
5) Motor Kills Checked



CODE	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		TOTAL
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	FUEL @ 08:00 HOURS		WEATHER																							
Tour 1		4.00			3.50						0.25																																				8.00				
Tour 2		1.00			7.50	3.50																																										12.00			
Tour 3					3.75																																										4.00				
Total		5.00			14.75	3.50					0.25																																					24.00			

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	MUD RECORD Mud Type Water Oil Other Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run	DEVIATION SURVEYS Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
CUTTING STRUCTURE TI TO MDC LOC BRG Gage ODC Reason Pulled Total Run (m/hr)	HOLE CONDITION Hole Drag Up Down Torque at Bottom Fill on Bottom	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	Boiler Boiler # Hours Run pH Stack Temp	SAFETY Safety Topic MEHL MACP MAKING A CONNECTION 14.00kdaN

TOUR 2 SIGNATURE OF DRILLER Chris Win... **START TIME** 08:00 **END TIME** 20:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	MUD RECORD Mud Type Water Oil Other Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run	DEVIATION SURVEYS Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
CUTTING STRUCTURE TI TO MDC LOC BRG Gage ODC Reason Pulled Total Run (m/hr)	HOLE CONDITION Hole Drag Up Down Torque at Bottom Fill on Bottom	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	Boiler Boiler # Hours Run pH Stack Temp	SAFETY Safety Topic MEHL MACP TRIPPING OUT OF THE HOLE.LAYING DOWN COLLARS

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	MUD RECORD Mud Type Water Oil Other Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run	DEVIATION SURVEYS Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
CUTTING STRUCTURE TI TO MDC LOC BRG Gage ODC Reason Pulled Total Run (m/hr)	HOLE CONDITION Hole Drag Up Down Torque at Bottom Fill on Bottom	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	Boiler Boiler # Hours Run pH Stack Temp	SAFETY Safety Topic MEHL MACP MIXING MUD 0.00kdaN

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120921_1E
 Vendor: Pason
 Software Version: 2012
 Year: 2012
 Month: 09
 Day: 21



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR	1	MUD TYPE	Gel Chem	WATER	x	OIL		OTHER	
------	---	----------	----------	-------	---	-----	--	-------	--

	Time	MUD TYPE			WATER	OIL	OTHER											
		01:30	04:00	06:00														
Density	1080kg/m3	1080kg/m3	1080kg/m3															
Funnel Viscosity	55s/l	43s/l	50s/l															
Fluid Loss																		
Fluid pH	10	9	9															
Location of Sample	Shaker	Shaker	Shaker															
Depth	49.97m		53m															
PVT	41.6m3	42m3	42m3															
Test 1	Type (Ex: Chlorides)																	
	Value																	
Test 2	Type (ex: Sand%)																	
	Value																	
Test 3	Type (ex: Hard Ca)																	
	Value																	
Test 4	Type (ex: Sulfides)																	
	Value																	

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120921_1E Vendor: Pason Software Version: 2012 09 21



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 **MUD TYPE** GEL CHEM **WATER** x **OIL** **OTHER**

Time	08:30	13:00	17:00														
Density	1070kg/m3	1050kg/m3	1050kg/m3														
Funnel Viscosity	52s/l	60s/l	60s/l														
Fluid Loss																	
Fluid pH																	
Location of Sample	SHAKER	SHAKER	shaker														
Depth	65.24m	65.34m	65.74m														
PVT	8.5m3	32.3m3	47.4m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20120922_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 22
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1, Well Type: VERT
 Operator's AFE: 1C-O20-D02
 Contractor's Job No: 1
 Signature of Operator Representative: ROD BEREZAY
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Re-Entry:

DAILY CHECKS

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well Licence & Stick Diagram Posted
- Flare Lines Staked
- 80P Drills Performed
- Visually Inspected 80Ps - Flare Lines & Degasser Lines
- Rig Site Health & Safety Meeting (one/crew/month)
- CAODC Rig Safety Inspection Checklist (one/rig/month)
- Most Inspection before Raising or Lowering
- Down Saver Checked
- Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1		3.25			1.00	3.00	0.25				0.25										0.25					8.00
Tour 2		1.50	4.25		0.25	5.25	0.25														0.50					12.00
Tour 3			1.75																		0.25					4.00
Total		4.75	6.00		3.25	8.25	0.50				0.25										1.00					24.00

FUEL @ 08:00 HOURS

Rig	8600.00	Blower	3200.00
Current Conditions	Clear	Wind Direction	SE
Wind Speed	0.00	Wind Strength	UP TO 25 KM/H
Cloud Condition	GOOD		

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG					
Bit Number: 1	Size: 311	IADC Code: 1 1 7 S	Manufacturer: KING DREAM	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.33m	Mud Type: Water	Water: 0	Oil: 0	Time: 06:30	Depth: 82m	Deviation: 9	Direction: 0	Type: WIRELINE	From: 00:00	To: 01:00	Elapsed: 1.005	Code: 1.005	Details: CONDITION MUD
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY									
MDC: Reason Pulled				Hole Drag: 0.00Nm				Pump No. 1, Pressure 152, Strokes/min 80, Depth 2500				Safety Topic: TRIPPING IN THE HOLE									

TOUR 2 SIGNATURE OF DRILLER Chris Winkler **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG					
Bit Number: 1	Size: 311	IADC Code: 1 1 7 S	Manufacturer: KING DREAM	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Mud Type: Water	Water: 0	Oil: 0	Time: 08:45	Depth: 106.73m	Deviation: 25	Direction: 0	Type: WIRELINE	From: 08:00	To: 09:30	Elapsed: 1.502	Code: 1.502	Details: DRILL TO FRU 105-115M
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY									
MDC: Reason Pulled				Hole Drag: 0.00Nm				Pump No. 1, Pressure 152, Strokes/min 89, Depth 3000				Safety Topic: LAY DOWN DRILL COLLARS									

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG					
Bit Number: 1	Size: 311	IADC Code: 1 1 7 S	Manufacturer: KING DREAM	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Mud Type: Water	Water: 0	Oil: 0	Time: 20:00	Depth: 116m	Deviation: 54	Direction: 0	Type: WIRELINE	From: 20:00	To: 20:15	Elapsed: 0.2521	Code: 0.2521	Details: SAFETY MEETING AND HAND OVER WITH BOTH CREWS RM AND COMPANY REP
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY									
MDC: Reason Pulled				Hole Drag: 0.00Nm				Pump No. 1, Pressure 152, Strokes/min 0, Depth 575				Safety Topic: SUSPENDED LOADS									

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20120923_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 23
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02
 Signature of Operator Representative: ROD BEREZAY
 Signature of Contractor's Rig Manager: Duncan Dittick
 Rig No: 1, Well Type: VERT
 Spud Date Time: 2012/09/19 01:00
 Rig Release Date Time:

DAILY CHECKS
 1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well License & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 8) BOP Drills Performed
 9) Rig Site Health & Safety Meeting (one/crew/month)
 10) CAODC Rig Safety Inspection Checklist (one/rig/month)
 11) Mast Inspection before Raising or Lowering
 12) Crown Saver Checked
 13) Motor KILLS Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Team Down	Waiting On	Rig Watch	Other	
Tour 1					1.00	2.50															0.75		3.75			8.00
Tour 2		4.00			4.25	3.25	0.25														0.25					12.00
Tour 3		3.00					0.50														0.25				0.25	4.00
Total		7.00			5.25	5.75	0.75														1.25		3.75		0.25	24.00

Kelly Busting: 4.91, Op Fuel: 1200.00
 Fuel @ 08:00 HOURS
 Rig: 7400.00, Meter: 3150.00
 Current Conditions: CLEAR, Temp: 8.40
 Wind Direction: UP TO 50 KM/H, Wind Strength: GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number: 1	Size: 311	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Mud Type: Other	Water: [x]	Oil: []	Time: 00:00	Depth: 01:00	Deviation: 1.00S	Direction:	Type:	From: 00:00	To: 01:00	Elapsed: 1.00S	Code: 1.00S	Details of Operations in Sequence & Remarks		
IADC Code: 1 1 7 S	Manufacturer: KING DREAM	No: 1	Component: BIT SUB	OD: 200	ID: 123	Length: 0.88m	Density: 1000	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 01:00	Depth: 01:15	Deviation: 0.2521B	Direction:	Type:	From: 01:00	To: 01:15	Elapsed: 0.2521B	Code: 0.2521B	CONDITION MUD & CIRCULATE
Type: EGIHGLC	Serial No: L00009	No: 2	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 25.64m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 01:15	Depth: 03:45	Deviation: 2.50BB	Direction:	Type:	From: 01:15	To: 03:45	Elapsed: 2.50BB	Code: 2.50BB	TRIP OUT OF HOLE LAY OUT BHA	
Jets: 22.0, 22.0, 22.0, 20.0	Depth Out (m): 116	No: 1	Component: JARS-HYD/MECH	OD: 171	ID: 67	Length: 4.96m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 03:45	Depth: 04:00	Deviation: 0.2521B	Direction:	Type:	From: 03:45	To: 04:00	Elapsed: 0.2521B	Code: 0.2521B	SAFETY MEETING AND REVIEW TRIP	
Depth In (m): 26	Total Drilled (m): 90	No: 2	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 45.75m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 04:00	Depth: 07:45	Deviation: 3.7523	Direction:	Type:	From: 04:00	To: 07:45	Elapsed: 3.7523	Code: 3.7523	W/O CEMENTER	
Hrs Run Today: 0.00	Cumulative Hrs Run: 15.00	No: 4	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 45.75m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 07:45	Depth: 08:00	Deviation: 0.2521D	Direction:	Type:	From: 07:45	To: 08:00	Elapsed: 0.2521D	Code: 0.2521D	PRE-JOB HAND OVER MEETING @ CREW CHANGE WITH ALL INVOLVED	
Entry Date: 2012/09/20		CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
TI: Gage	TO: ODC	Drill Pipe Stands: 0.00m				Hole Drag: Up [] Down []				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
MDC: Reason Pulled	LOC: Total Run (m/hr): 6.00	Drill Pipe Singles: 0.00m				Torque at Bottom: 175.00Nm				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
BRG: Total Run (m/hr): 6.00		Kelly Down: 0.00m				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Total: 115.00m				Torque at Bottom: 175.00Nm				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Weight of DC: 17kdaN				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Weight of String: 24kdaN				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number: 1	Size: 311	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Mud Type: Other	Water: [x]	Oil: []	Time: 08:00	Depth: 08:15	Deviation: 0.2521D	Direction:	Type:	From: 08:00	To: 08:15	Elapsed: 0.2521D	Code: 0.2521D	Details of Operations in Sequence & Remarks		
IADC Code: 1 1 7 S	Manufacturer: KING DREAM	No: 1	Component: BIT SUB	OD: 200	ID: 123	Length: 0.88m	Density: 1000	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 08:15	Depth: 09:00	Deviation: 0.75BA	Direction:	Type:	From: 08:15	To: 09:00	Elapsed: 0.75BA	Code: 0.75BA	PICK UP & MAKE UP BIT & DRILL COLLARS, TRIP IN HOLE TO CONDUCTER SET
Type: EGIHGLC	Serial No: L00009	No: 2	Component: DC (8.00 IN)	OD: 206	ID: 72	Length: 36.68m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 09:00	Depth: 12:30	Deviation: 3.50S	Direction:	Type:	From: 09:00	To: 12:30	Elapsed: 3.50S	Code: 3.50S	CONDITION MUD & CIRCULATE	
Jets: 22.0, 22.0, 22.0, 20.0	Depth Out (m): 115	No: 1	Component: JARS-HYD/MECH	OD: 171	ID: 67	Length: 4.96m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 12:30	Depth: 15:00	Deviation: 2.50BA	Direction:	Type:	From: 12:30	To: 15:00	Elapsed: 2.50BA	Code: 2.50BA	CONTINUE TRIP IN HOLE	
Depth In (m): 26	Total Drilled (m): 89	No: 2	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 25.64m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 15:00	Depth: 15:45	Deviation: 0.75S	Direction:	Type:	From: 15:00	To: 15:45	Elapsed: 0.75S	Code: 0.75S	BRAKE CIRCULATION, WATCH FOR LOSSES	
Hrs Run Today: 3.75	Cumulative Hrs Run: 18.75	No: 1	Component: JARS-MECH	OD: 171	ID: 67	Length: 4.96m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 15:45	Depth: 16:00	Deviation: 0.257	Direction:	Type:	From: 15:45	To: 16:00	Elapsed: 0.257	Code: 0.257	RIG SERVICE, GREASE SWIVEL PACKING & MUD SAVER VALVE	
Entry Date: 2012/09/20		No: 2	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 45.75m	Funnel Viscosity: 100s	Fluid Loss: 0	pH: 9.0	Location of Sample: SHAKER SHAKER	Time: 16:00	Depth: 20:00	Deviation: 4.002	Direction:	Type:	From: 16:00	To: 20:00	Elapsed: 4.002	Code: 4.002	DRILL AHEAD 311mm SURFACE HOLE FR/116- 133m	
		CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
TI: Gage	TO: ODC	Drill Pipe Stands: 0.00m				Hole Drag: Up [] Down []				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
MDC: Reason Pulled	LOC: Total Run (m/hr): 4.75	Drill Pipe Singles: 0.00m				Torque at Bottom: 175.00Nm				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
BRG: Total Run (m/hr): 4.75		Kelly Down: 0.00m				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Total: 115.00m				Torque at Bottom: 175.00Nm				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Weight of DC: 17kdaN				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Weight of String: 24kdaN				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number: 1	Size: 311	No: 1	Component: BIT	OD: 311	ID: 0	Length: 0.30m	Mud Type: Other	Water: [x]	Oil: []	Time: 20:45	Depth: 21:30	Deviation: 146m	Direction: 25	Type: WIRELINE	From: 20:00	To: 20:15	Elapsed: 0.2521	Code: 0.2521	Details of Operations in Sequence & Remarks		
IADC Code: 1 1 7 S	Manufacturer: KING DREAM	No: 1	Component: BIT SUB	OD: 200	ID: 123	Length: 0.88m	Density: 1060	Funnel Viscosity: 90s	Fluid Loss: 0	pH: 8	Location of Sample: Shaker	Time: 20:15	Depth: 23:15	Deviation: 3.002	Direction:	Type:	From: 20:15	To: 23:15	Elapsed: 3.002	Code: 3.002	SAFETY MEETING AND HAND OVER WITH BOTH CREWS, RM AND COMPANY REP
Type: EGIHGLC	Serial No: L00009	No: 2	Component: DC (8.00 IN)	OD: 206	ID: 72	Length: 36.68m	Funnel Viscosity: 90s	Fluid Loss: 0	pH: 8	Location of Sample: Shaker	Time: 23:15	Depth: 23:45	Deviation: 0.507	Direction:	Type:	From: 23:15	To: 23:45	Elapsed: 0.507	Code: 0.507	RIG SERVICE	
Jets: 22.0, 22.0, 22.0, 20.0	Depth Out (m): 164	No: 1	Component: JARS-HYD/MECH	OD: 171	ID: 67	Length: 4.96m	Funnel Viscosity: 90s	Fluid Loss: 0	pH: 8	Location of Sample: Shaker	Time: 23:45	Depth: 24:00	Deviation: 0.2525	Direction:	Type:	From: 23:45	To: 24:00	Elapsed: 0.2525	Code: 0.2525	TROUBLE SHOOT TOP DRIVE	
Depth In (m): 26	Total Drilled (m): 138	No: 2	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 25.64m	Funnel Viscosity: 90s	Fluid Loss: 0	pH: 8	Location of Sample: Shaker											
Hrs Run Today: 2.00	Cumulative Hrs Run: 20.75	No: 4	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 94.75m	Funnel Viscosity: 90s	Fluid Loss: 0	pH: 8	Location of Sample: Shaker											
Entry Date: 2012/09/20		CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
TI: Gage	TO: ODC	Drill Pipe Stands: 0.00m				Hole Drag: Up [] Down []				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
MDC: Reason Pulled	LOC: Total Run (m/hr): 6.65	Drill Pipe Singles: 0.00m				Torque at Bottom: 400.00Nm				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
BRG: Total Run (m/hr): 6.65		Kelly Down: 0.00m				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Total: 164.00m				Torque at Bottom: 400.00Nm				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Weight of DC: 17kdaN				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							
		Weight of String: 24kdaN				Fill on Bottom: 0.00m				Pump No. Pressure Strokes/min Depth				Boiler # Hours Run pH Stack Temp							

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120923_1E Vendor: Pason Software Version: 2012 Year: 2012 Month: 09 Day: 23



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	10:00	14:00	18:00														
Density	1050kg/m3	1050kg/m3	1050kg/m3														
Funnel Viscosity	84s/l	120s/l															
Fluid Loss																	
Fluid pH	9.0	9.0															
Location of Sample	SHAKER	SHAKER															
Depth																	
PVT																	
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120924_1E Vendor: Pason Software Version: 2012 Year: 2012 Month: 09 Day: 24



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 **MUD TYPE** POLYMER **WATER** x **OIL** **OTHER**

Time	08:30	11:00	17:00														
Density	1050kg/m3	1050kg/m3	1030kg/m3														
Funnel Viscosity	110s/l	104s/l	87s/l														
Fluid Loss																	
Fluid pH	8.0	8.0	8.0														
Location of Sample	shaker	SHAKER	SHAKER														
Depth	213m	229.75m															
PVT			28.6m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20120925_1F
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 25
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02
 Signature of Operator Representative: ROD BEREZAY
 Signature of Contractor's Rig Manager: Duncan Dittrick

DAILY CHECKS

1) Daily Walk Around Inspection	SB	DD
2) Detailed Inspection - Weekly (Using Check List)	RB	DD
3) H2S Signs Posted if Required	RB	DD
4) Well License & Stick Diagram Posted	RB	DD
5) Flare Lines Staked	RB	DD
6) BOP Drills Performed	RB	DD
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	RB	DD

1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Crown Saver Checked
 5) Motor Gills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Hours	0.50	1.50	2.00		0.25		2.75	0.25		4.00		0.25		8.00							0.50					8.00
Weather	Time: 06:00, Temp: 2.00, Wind Direction: DRIZZLE / MIST, Wind Strength: UP TO 25 KM/H, Road Condition: GOOD																									

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number: 1	Size: 311	IADC Code:	Manufacturer: KING DREAM	No: 1	Component: BIT	OD: 3 1/8	ID: 0	Length: 0.30m	Mud Type: Water	Water: [x]	Oil: []	Time: 02:30	Depth: 261m	Deviation: 1.0	Direction: 0	Type: WIRELINE	From: 00:00	To: 02:00	Elapsed: 2.00	Code: 2003	REAMING FROM 170m TO 261m			
CUTTING STRUCTURE				HOLE CONDITION				CIRCULATION				MUD MATERIALS ADDED				SAFETY								
TI: 1, TO: 1, MDC: WT, LOC: A, BRG: E, Total Run (m/hr): 7.21				Kelly Down: 0.00m, Total: 273.00m, Weight of DC: 0.00m, Weight of String: 0.00m				Pump #1: 152 SPM, 5100 Pressure, 6 Hours Run; Pump #2: 165 SPM, 5100 Pressure, 6 Hours Run				SAWDUST, SODA ASH, KELZAN XCD POLYMER, DESCO CF, WALNUT PLUS MEDIUM, FED SEAL, SAPP, IRING FREE				Safety Topic: USING TUGGER LINE, MEHL, MACP								

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number: 1	Size: 311	IADC Code:	Manufacturer: KING DREAM	No: 1	Component: BIT	OD: 3 1/8	ID: 0	Length: 0.30m	Mud Type: Water	Water: [x]	Oil: []	Time: 08:00	Depth: 11:00	Deviation: 2.75	Direction: 0	Type: PRE-TOUR SAFETY MEETING WITH ALL INVOLVED	From: 08:00	To: 08:15	Elapsed: 0.25	Code: 21	TRIP OUT OF HOLE FROM 252 TO 0			
CUTTING STRUCTURE				HOLE CONDITION				CIRCULATION				MUD MATERIALS ADDED				SAFETY								
TI: 1, TO: 1, MDC: WT, LOC: A, BRG: E, Total Run (m/hr): 7.21				Kelly Down: 0.00m, Total: 273.00m, Weight of DC: 0.00m, Weight of String: 0.00m				Pump #1: 152 SPM, 0 Pressure, 0 Hours Run; Pump #2: 165 SPM, 0 Pressure, 0 Hours Run				Remarks: SET UPPER & LOWER POINT, VISUALLY INSPECT BRAKING SYSTEM, F/T CROWNSAVER				Safety Topic: TRIP OUT OF HOLE, MEHL, MACP								

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG								
Bit Number: 1	Size: 311	IADC Code:	Manufacturer: KING DREAM	No: 1	Component: BIT	OD: 3 1/8	ID: 0	Length: 0.30m	Mud Type: Water	Water: [x]	Oil: []	Time: 20:00	Depth: 21:00	Deviation: 1.00	Direction: 2A	Type: RIG UP/DOWN TO RUN CASING	From: 20:00	To: 21:00	Elapsed: 1.00	Code: 2A	RUN 244.5MM SURFACE CASING FROM 0m TO 79m			
CUTTING STRUCTURE				HOLE CONDITION				CIRCULATION				MUD MATERIALS ADDED				SAFETY								
TI: 1, TO: 1, MDC: WT, LOC: A, BRG: E, Total Run (m/hr): 7.21				Kelly Down: 0.00m, Total: 273.00m, Weight of DC: 0.00m, Weight of String: 0.00m				Pump #1: 152 SPM, 0 Pressure, 0 Hours Run; Pump #2: 165 SPM, 0 Pressure, 0 Hours Run				Remarks: SET HIGH AND LOW POINT, VISUALLY INSPECT DRAWWORKS AND BRAKE SYSTEM, DRILLERS WALK AROUND = OK, REVIEW JSA ON RUNNING CASING				Safety Topic: RUNNING CASING, MEHL, MACP								

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20120925_1F

Vendor Software Version
Pason

Year Month Day
2012 09 25

License No 1129
Well Name NCY E Chance E-78.

Surface Location
66:07:18.56 N/137:14:46.85W

Prov YT
Loc Type LAT-LONG
Unique Well Id 300e786610137000

Operator
NORTHERN CROSS YUKON
Operator's AFE
1C-O20-D02
Signature of Operator Representative
ROD BEREZAY

Contractor
NORTHERN CROSS YUKON
Contractor's Job No
1
Signature of Contractor's Rig Manager
Duncan Dittrick

Rig No 1
Well Type VERT
Spud Date Time 2012/09/19 01:00
Rig Release Date Time
Re-Entry



Pason

DRILLING ASSEMBLY					DRILLING ASSEMBLY					DRILLING ASSEMBLY				
TOUR 1					TOUR 2					TOUR				
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length
1	BIT	311.00	0.00	0.30	1	BIT	311.00	0.00	0.30					
1	BIT SUB	200.00	123.00	0.88	1	BIT SUB	200.00	123.00	0.88					
1	DC (8.00 IN)	206.00	72.00	9.26	1	DC (8.00 IN)	206.00	72.00	9.26					
1	DC (8.00 IN)	206.00	72.00	9.37	1	DC (8.00 IN)	206.00	72.00	9.37					
1	DC (8.00 IN)	200.00	75.00	9.24	1	DC (8.00 IN)	200.00	75.00	9.24					
1	DC (8.00 IN)	200.00	75.00	8.81	1	DC (8.00 IN)	200.00	75.00	8.81					
1	X/O	197.00	77.00	0.79	1	X/O	197.00	77.00	0.79					
2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64					
1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96					
8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45					
0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00		Drill Pipe	Stands		
8	Drill Pipe	Singles		101.30	8	Drill Pipe	Singles		101.30		Drill Pipe	Singles		
Kelly Down				0.00	Kelly Down				0.00	Kelly Down				
Total				273.00	Total				273.00	Total				
Weight of DC					Weight of DC					Weight of DC				
Weight of String					Weight of String					Weight of String				

SPECIAL EVENTS				
Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	TRIP OUT OF HOLE	09:00	273

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN11_20120926_1G Vendor Software Version: Pason Year: 2012 Month: 09 Day: 26
 License No: 1129 Well Name: NCF E Chance E-78 Surface Location: 66:07:18.56N/137:14:46.88W Prov: YT Loc Type: LAT-LONG Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON Contractor: NORTHERN CROSS YUKON Rig No: 1 Well Type: VERT Re-Entry:
 Operator's AFE: 1C-O20-D02 Contractor's Job No: 1 Spud Date Time: 2012/09/19 01:00
 Signature of Operator Representative: ROD BEREZAY Signature of Contractor's Rig Manager: Duncan Dittrick Rig Release Date Time: _____

DAILY CHECKS

1) Daily Walk Around Inspection	SB	DD
2) Detailed Inspection - Weekly (Using Check List)	RB	DD
3) H2S Signs Posted if Required	RB	DD
4) Well License & Stick Diagram Posted	RB	DD
5) Flare Lines Staked	RB	DD
6) BOP Drills Performed	RB	DD
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	RB	DD
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1					4.00		0.25					3.50									0.25					8.00
Tour 2							0.25					1.00	4.00	3.00							0.50					12.00
Tour 3												2.50	1.25								0.25					4.00
Total					4.00		0.50					7.00	5.25	3.00							1.00					24.00

FUEL @ 08:00 HOURS

Rig	7500.00	Blower	3200.00
Time	06:00	Temp	7.00
Current Conditions	PARTLY CLOUDY		
Wind Direction	SE		
Wind Strength	UP TO 25 KM/H		
Road Condition	GOOD		

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks								
												05:45					00:00	03:30	3:50	H2	Ran 22x joints of 244.5mm x 53.57kg/m J-55 LT&C surface casing with float shoe, float collar, and 12x bowspring centralizers. Total length = 274.86m. Lagged and landed on bottom at 273m.								
												05:45					03:30	05:00	1:50	H2	CONDITION MUD & CIRCULATE								
												05:45					05:00	05:15	0:25	H2	RIG SERVICE								
												05:45					05:15	07:45	2:50	H2	CIRCULATE CASING, RIG UP CEMENTERS								
												05:45					07:45	08:00	0:25	H2	SAFETY MEETING w/ CREW, CONSULTANT, MANAGER, HALLIBURTON CREW								
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY																	
TI	TO	MDC	LOC	BRG	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks								
												22:30					08:00	08:15	0:25	H2	PRE-TOUR SAFETY MEETING WITH ALL INVOLVED								
												22:30					08:15	08:45	0:50	H2	RIG UP HALIBURTON CEMENTERS								
												22:30					08:45	09:15	0:50	H2C	CEMENTING SURFACE CSG & FLUSH BOP. PLUG DOWN @ 8:15 (SEE TIME LOG NOTES FOR DETAILS).								
												22:30					09:15	09:30	0:25	H2	RIG SERVICE, TOP DRIVE CHECK FLUID LEVELS								
												22:30					09:30	13:30	4:00	H3	WAIT ON CEMENT								
												22:30					13:30	13:45	0:25	H2	SAFETY MEETING & JSA REVIEW, LIFT DEVERTER & CUT CSG								
												22:30					13:45	16:45	3:00	H4C	NIPPLE DOWN DIVERTER SYSTEM CUT CSG & CONDUCTER								
												22:30					16:45	20:00	3:25	H25	WELD ON CSG BOWL								
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY																	
TI	TO	MDC	LOC	BRG	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG													
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks								
												22:30					20:00	20:15	0:25	H2	SAFETY MEETING AND HAND OVER WITH BOTH CREWS, RM AND COMPANY REP								
												22:30					20:15	22:45	2:50	H2D	RIG UP CEMENTERS FOR TOP CEMENT JOB, TOP CEMENT JOB.								
												22:30					22:45	24:00	1:25	H3	WAIT ON CEMENT								
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY																	
TI	TO	MDC	LOC	BRG	Drill Pipe	Stands	Drill Pipe	Singles	Kelly Down	Total	Weight of DC	Weight of String	Hole Drag	Up	Down	Torque at Bottom	Fill on Bottom	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Tour Sheet Serial Number JKN11_20120927_1D	Vendor Software Version Pason	Year 2012	Month 09	Day 27
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1		Well Type VERT
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Spud Date Time 2012/09/19 01:00		Re-Entry <input type="checkbox"/>
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick		Rig Release Date Time		

DAILY CHECKS

<input type="checkbox"/>	1) Daily Walk Around Inspection
<input type="checkbox"/>	2) Detailed Inspection - Weekly (Using Check List)
<input type="checkbox"/>	3) H2S Signs Posted if Required
<input type="checkbox"/>	4) Well License & Stick Diagram Posted
<input type="checkbox"/>	5) Flare Lines Staked
<input type="checkbox"/>	6) BOP Drills Performed
<input type="checkbox"/>	7) Visually Inspected BOPs - Flare Lines & Degasser Lines

1) Rig Site Health & Safety Meeting (one/crew/month)
2) CAODC Rig Safety Inspection Checklist (one/rig/month)
3) Mast Inspection before Raising or Lowering
4) Crown Saver Checked
5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1													0.50	7.25								0.25				8.00
Tour 2							0.25								1.75	9.50						0.50				12.00
Tour 3															3.75							0.25				4.00
Total							0.25						0.50	9.00	13.25							1.00				24.00

FUEL @ 08:00 HOURS

Rig	6700.00	2512.00
Time	06:00	2:00
Current Conditions	RAIN	
Wind Direction	UP TO 25 KM/H	
Wind Strength		
Wind Condition	GOOD	

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG												
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks					
Size							Other			04:30					00:00	00:30	0:50	H3	WAIT ON CEMENT					
IADC Code							Time								00:30	00:45	0:25	H1B	REVIEW JSA ON NIPPLE UP BOP'S					
Manufacturer							Density								00:45	08:00	7:25	H4A	NIPPLE UP BOP'S					
Type							Funnel Viscosity																	
Serial No							Fluid Loss													SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density				
Jets							pH													MUD MATERIALS ADDED Product Amount Type				
Depth Out (m)							Location of Sample													REMARKS: SET HIGH AND LOW POINT VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM DRILLERS WALK AROUND= OK REVIEW JSA ON NIPPLE UP BOP'S				
Depth In (m)							Depth													SAFETY Safety Topic MEHL MACP				
Total Drilled (m)							PVT													PICK UP BOP'S				
Hrs Run Today																				REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth				
Cumulative Hrs Run																				Boiler Boiler # Hours Run pH Stack Temp				
Entry Date																				@ @ @ @				
																				@ @ @ @				

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG											
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
Size							Other								08:00	08:15	0:25	H1	PRE-TOUR SAFETY HAND OVER MEETING WITH ALL INVOLVED				
IADC Code							Time								08:15	10:00	1:75	H4	NIPPLE UP BOP				
Manufacturer							Density								10:00	10:15	0:25	H7	RIG SERVICE				
Type							Funnel Viscosity								10:15	10:30	0:25	H5B	FUNCTION TEST BOP'S				
Serial No							Fluid Loss								10:30	10:45	0:25	H1D	PRE-JOB SAFETY MEETING & JSA REVIEW WITH PRESSURE TESTERS & CREW				
Jets							pH								10:45	20:00	9:25	H5A	PRESSURE TEST BOP'S. TEST ALL MANIFOLD VALVES, CHOKES TEST ALL STACK CHOKE VALVES AND KILL VALVES FROM 1400KPA LOW AND 21000 KPA HIGH 1/ 10MIN EACH.				
Depth Out (m)							Location of Sample																
Depth In (m)							Depth							SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density									
Total Drilled (m)							PVT							MUD MATERIALS ADDED Product Amount Type									
Hrs Run Today														REMARKS: DRILLERS WALK AROUND CONDUCTED BY JAMES M SET UPPER & LOWER SET POINTS VISUALLY INSPECT BRAKE SYSTEM									
Cumulative Hrs Run														SAFETY Safety Topic MEHL MACP									
Entry Date														NIPPLE UP BOP									
														REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth									
														Boiler Boiler # Hours Run pH Stack Temp									
														@ @ @ @									
														@ @ @ @									

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG											
Bit Number	2	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks				
Size	222					0.23m	Other								20:00	20:15	0:25	H1	SAFETY MEETING AND HAND OVER WITH BOTH CREWS, RM AND COMPANY REP				
IADC Code	4 4 7 X					0.89m	Time								20:15	23:00	2:75	H5A	PRESSURE TEST FILL DEGASER LINE WITH ENVIRONMENTALLY FRIENDLY GLYCOL AND PRESSURE TEST @ 1400kpa. TEST ANNUAL AND HCR VALVE 1400kpa LOW AND 10500kpa HIGH HOLD 10 MINS.				
Manufacturer	SMITH					9.21m	Density													TEST PIPE RAMS, STABBING VALVE, AND CASING BOWL TEST OUTER KILL LINE AND MANUAL HCR AND STAND PIPE BACK TO PUMPS @ 1400kpa LOW AND 21000kpa HIGH HOLD 10 MIN. ACCUMULATOR FUNCTION TEST.			
Type	FH18B					0.81m	Funnel Viscosity													PRESSURE TEST BLIND RAMS AND CASING TO 14000kpa HELD FOR 10 MINS			
Serial No	PX2212					9.31m	Fluid Loss																
Jets	14.2 14.2 14.2					25.64m	pH							SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density									
Depth Out (m)						4.96m	Location of Sample							MUD MATERIALS ADDED Product Amount Type									
Depth In (m)						102.45m	Depth							REMARKS: VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM SET HIGH AND LOW POINT REVIEW JSA ON PRESSURE TESTING									
Total Drilled (m)						0.71m	PVT							SAFETY Safety Topic MEHL MACP									
Hrs Run Today	0.00													PRESSURE TESTING									
Cumulative Hrs Run	0.00													REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth									
Entry Date	2012/09/27													Boiler Boiler # Hours Run pH Stack Temp									
														@ @ @ @									
														@ @ @ @									

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Tour Sheet Serial Number JKN11_20120927_1D	Vendor Software Version Pason	Year 2012	Month 09	Day 27
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1		Well Type VERT
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Spud Date Time 2012/09/19 01:00		Re-Entry <input type="checkbox"/>
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick		Rig Release Date Time		
Surface Location 66:07:18.56N/137:14:46.88W		Prov YT		Loc Type LAT-LONG		Unique Well Id 300e786610137000

DAILY CHECKS

1) Daily Walk Around Inspection	OP	RM
2) Detailed Inspection - Weekly (Using Check List)		
3) H2S Signs Posted if Required		
4) Well Licence & Stick Diagram Posted		
5) Flare Lines Staked		
6) BOP Drills Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines		
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Crown Saver Checked		
5) Motor Kills Checked		



HOURS	CODE																									TOTAL	FUEL @ 08:00 HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other		
Tour 1														0.50	7.25											8.00	
Tour 2							0.25								1.75	9.50										12.00	
Tour 3																3.75										4.00	
Total							0.25							0.50	9.00	13.25										24.00	

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	From	To		
Type	Serial No	Jets		Length				Funnel Viscosity				Intake Density	Over Flow Density	Under Flow Density	Code	Details of Operations in Sequence & Remarks			
Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Drill Pipe	Stands	Drill Pipe	Singles	Fluid Loss	pH	Location of Sample	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density			
Cumulative Hrs Run	Entry Date			Kelly Down	Total	Weight of DC	Weight of String	Location of Sample	Depth	PVT		MUD MATERIALS ADDED	Product	Amount	Type				
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
TI	TO	MDC	LOC	Hole Drag	Up	Down		Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	
BRG				Torque at Bottom	Fill on Bottom			@	@	@	@					PICK UP BOP'S			
Remarks:				Remarks:				Remarks:				Remarks: VISUALLY INSPECT BOP SLINGS & CLEVIS' AND ALL HOISTING TOOLS							

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	From	To		
Type	Serial No	Jets		Length				Funnel Viscosity				Intake Density	Over Flow Density	Under Flow Density	Code	Details of Operations in Sequence & Remarks			
Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Drill Pipe	Stands	Drill Pipe	Singles	Fluid Loss	pH	Location of Sample	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density			
Cumulative Hrs Run	Entry Date			Kelly Down	Total	Weight of DC	Weight of String	Location of Sample	Depth	PVT		MUD MATERIALS ADDED	Product	Amount	Type				
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
TI	TO	MDC	LOC	Hole Drag	Up	Down		Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	
BRG				Torque at Bottom	Fill on Bottom			@	@	@	@					NIPPLE UP BOP			
Remarks:				Remarks:				Remarks:				Remarks:							

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number	Size	IADC Code	Manufacturer	No	Component	OD	ID	Mud Type	Water	Oil	Other	Time	Depth	Deviation	Direction	From	To		
Type	Serial No	Jets		Length				Funnel Viscosity				Intake Density	Over Flow Density	Under Flow Density	Code	Details of Operations in Sequence & Remarks			
Depth Out (m)	Depth In (m)	Total Drilled (m)	Hrs Run Today	Drill Pipe	Stands	Drill Pipe	Singles	Fluid Loss	pH	Location of Sample	Depth	Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density			
Cumulative Hrs Run	Entry Date			Kelly Down	Total	Weight of DC	Weight of String	Location of Sample	Depth	PVT		MUD MATERIALS ADDED	Product	Amount	Type				
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
TI	TO	MDC	LOC	Hole Drag	Up	Down		Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic	MEHL	MACP	
BRG				Torque at Bottom	Fill on Bottom			@	@	@	@					PRESSURE TESTING			
Remarks:				Remarks:				Remarks:				Remarks:							

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78 Operator NORTHERN CROSS YUKON

Tour Sheet Serial Number JNKN1_20120928_1E Vendor Software Version Pason Year 2012 Month 09 Day 28

- DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List) 3) H2S Signs Posted if Required



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc. Total hours: 24.00.

TOUR 1 SIGNATURE OF DRILLER Brad Grant START TIME 00:00 END TIME 08:00

TOUR 1 Form sections: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER James Mackinnon START TIME 08:00 END TIME 20:00

TOUR 2 Form sections: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER Brad Grant START TIME 20:00 END TIME 24:00

TOUR 3 Form sections: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20120928_1E

Vendor Software Version
Pason

Year Month Day
2012 09 28

License No 1129
Well Name NCY E Chance E-78.

Surface Location
66:07:18.56 N/137:14:46.85W

Prov YT
Loc Type LAT-LONG
Unique Well Id 300e786610137000

Operator
NORTHERN CROSS YUKON
Operator's AFE
1C-O20-D02
Signature of Operator Representative
ROD BEREZAY

Contractor
NORTHERN CROSS YUKON
Contractor's Job No
1
Signature of Contractor's Rig Manager
Duncan Dittrick

Rig No 1
Well Type VERT
Spud Date Time 2012/09/19 01:00
Rig Release Date Time
Re-Entry



Pason

DRILLING ASSEMBLY				TOUR 1			DRILLING ASSEMBLY				TOUR 2			DRILLING ASSEMBLY				TOUR 3		
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	
1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	
1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	
1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	
1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	
1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	
2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	
1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	
8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	
1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	
0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00						
1	Drill Pipe	Singles		12.61	13	Drill Pipe	Singles		166.32	16	Drill Pipe	Singles		202.87						
Kelly Down				0.00	Kelly Down				0.00	Kelly Down				0.00						
Total				166.74	Total				320.45	Total				357.00						
Weight of DC					Weight of DC				20.00	Weight of DC				20.00						
Weight of String					Weight of String				22.00	Weight of String				22.00						

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	SLIP & CUT LINE	09:15	273

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20120929_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 29
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02
 Signature of Operator Representative: JUSTIN COBAN
 Signature of Contractor's Rig Manager: Duncan Dittrick

DAILY CHECKS
 1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well Licence & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 8) Rig Site Health & Safety Meeting (one/crew/month)
 9) CAODC Rig Safety Inspection Checklist (one/rig/month)
 10) Mast Inspection before Raising or Lowering
 11) Crown Saver Checked
 12) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Hours		7.50					0.50					0.50														8.00
		11.00					0.25														0.25					12.00
		3.75										0.25														4.00
Total		22.25					0.75					0.75									0.25					24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant
START TIME 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG				
Bit Number: 2	Size: 222	No: 1	Component: BIT	OD: 222	Length: 0.23m	Mud Type: Other	Water: 0	Oil: 0	Time: 00:30	Depth: 347m	Deviation: 1.58	Direction: 119	Type: DIRECTIONAL	From: 00:00	To: 04:00	Elapsed: 4:00	Code: DRILL 222mm HOLE FROM 357m TO 383m	
IADC Code: 4 4 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	Length: 0.89m	Density: 1045	Funnel Viscosity: 1045	pH: 9.5	Time: 04:15	Depth: 372m	Deviation: 1.49	Direction: 114.66	Type: DIRECTIONAL	From: 04:00	To: 04:30	Elapsed: 0:50	Code: RIG SERVICE	
Type: FH18B	Serial No: PX2212	No: 1	Component: MONEL	OD: 165	Length: 9.21m	Fluid Loss: 47s/1	48s/1	Location of Sample: Shaker	Time: 07:00	Depth: 386m	Deviation: 1.49	Direction: 119.18	Type: DIRECTIONAL	From: 04:30	To: 08:00	Elapsed: 3:50	Code: DRILL 222mm HOLE FROM 383m TO 396m	
Jets: 14.2 14.2 14.2	Depth Out (m): 396	No: 1	Component: MONEL	OD: 165	Length: 9.31m	Depth: 367.06m	PVT: 35.06m3											
Depth In (m): 273	Total Drilled (m): 123	No: 1	Component: MONEL	OD: 165	Length: 9.31m													
Hrs Run Today: 7.50	Cumulative Hrs Run: 17.50	No: 1	Component: MONEL	OD: 165	Length: 9.31m													
Entry Date: 2012/09/28		No: 1	Component: MONEL	OD: 165	Length: 9.31m													
CUTTING STRUCTURE		Drill Pipe: 19		Stands: 0.00m	Singles: 242.86m	CIRCULATION		Pump #1: 152		SPM: 0	Pressure: 6000	Hours Run: 0	SAFETY					
TI: Gage	TO: ODC	Kelly Down: 0.00m		Total: 396.99m	Pump #2: 165		SPM: 115	Pressure: 6000	Hours Run: 0	Remarks: SET HIGH AND LOW POINTS								
MDC: Reason Pulled	LOC: Total Run (m/hr): 7.03	Weight of DC: 20kdaN		Weight of String: 22kdaN	Pump No.:		Pressure:	Strokes/min:	Depth:	VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM								
BRG:		Hole Drag: 0		Down: 0	Torque at Bottom: 300.00Nm		Fill on Bottom: 0.00m	DRILLERS WALK AROUND= OK CHECK MANIFOLD VALVE ALIGNMENT										
METRES DRILLED		From: 357m		To: 396m	D-R-C: DRILL	RPM: 150	WOB: 3.6kdaN	REDUCED PUMP SPEED				FUNCTION FLARE IGNITOR						
		Torque at Bottom: 300.00Nm		Fill on Bottom: 0.00m	Pump No.:				Pressure:	Strokes/min:	Depth:	SAFETY						
		Hole Drag: 0		Down: 0	Pump #1: 180				SPM: 52	Pressure: 499	Safety Topic: MEHL, MACP							
		Torque at Bottom: 380.00Nm		Fill on Bottom: 0.00m	Pump #2: 1830				SPM: 52	Pressure: 499	CATCHING SAMPLES							

TOUR 2 SIGNATURE OF DRILLER James Mackinnon
START TIME 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 2	Size: 222	No: 1	Component: BIT	OD: 222	Length: 0.23m	Mud Type: Other	Water: 0	Oil: 0	Time: 08:00	Depth: 398m	Deviation: 1.19	Direction: 119.8	Type: DIRECTIONAL	From: 08:00	To: 08:15	Elapsed: 0:25	Code: PRE-TOUR SAFETY MEETING WITH ALL INVOLVED
IADC Code: 4 4 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	Length: 0.89m	Density: 1055	Funnel Viscosity: 1060	pH: 9.5	Time: 08:15	Depth: 411m	Deviation: 1.03	Direction: 115.18	Type: DIRECTIONAL	From: 08:15	To: 18:15	Elapsed: 10:00	Code: DRILL AHEAD 222mm HOLE FR/396- 499m
Type: FH18B	Serial No: PX2212	No: 1	Component: MONEL	OD: 165	Length: 9.21m	Fluid Loss: 42s/1	83s/1	Location of Sample: SHAKER	Time: 12:45	Depth: 424m	Deviation: 1.10	Direction: 126.17	Type: DIRECTIONAL	From: 18:15	To: 18:30	Elapsed: 0:25	Code: RIG SERVICE F/T PIPE RAMS CLOSED 3/SEC OPENED 3/SEC
Jets: 14.2 14.2 14.2	Depth Out (m): 524	No: 1	Component: MONEL	OD: 165	Length: 9.31m	Depth: 400.60m	PVT: 41.67m3		Time: 14:15	Depth: 437m	Deviation: 1.10	Direction: 122.48	Type: DIRECTIONAL	From: 18:30	To: 19:30	Elapsed: 1:00	Code: DRILL AHEAD FR/499-524m
Depth In (m): 273	Total Drilled (m): 251	No: 1	Component: MONEL	OD: 165	Length: 9.31m				Time: 15:15	Depth: 450m	Deviation: 1.32	Direction: 134.64	Type: DIRECTIONAL	From: 19:30	To: 20:00	Elapsed: 0:50	Code: DEVIATION SURVEY TIME ACCUMULATED
Hrs Run Today: 11.00	Cumulative Hrs Run: 28.50	No: 1	Component: MONEL	OD: 165	Length: 9.31m				Time: 16:15	Depth: 462m	Deviation: 1.32	Direction: 148.05	Type: DIRECTIONAL				
Entry Date: 2012/09/28		No: 1	Component: MONEL	OD: 165	Length: 9.31m				Time: 17:30	Depth: 475m	Deviation: 1.32	Direction: 155.88	Type: DIRECTIONAL				
CUTTING STRUCTURE		Drill Pipe: 24		Stands: 0.00m	Singles: 369.87m	CIRCULATION		Pump #1: 152		SPM: 0	Pressure: 6481	Hours Run: 0	SAFETY				
TI: Gage	TO: ODC	Kelly Down: 0.00m		Total: 524.00m	Pump #2: 165		SPM: 115	Pressure: 6481	Hours Run: 11:25	Remarks: DRILLERS WALK AROUND COMPLETED BY JAMES.M. VISUALLY INSPECT BRAKE SYSTEMS SET HIGH & LOW POINTS							
MDC: Reason Pulled	LOC: Total Run (m/hr): 8.81	Weight of DC: 20kdaN		Weight of String: 25kdaN	Pump No.:		Pressure:	Strokes/min:	Depth:	MACP CHARTS POSTED IN MANIFOLD & DOG HOUSE. CHECK MANIFOLD ALIGNMENT. FUNCTION TEST FLARE TANK IGNITOR							
BRG:		Hole Drag: 0		Down: 0	Torque at Bottom: 380.00Nm				Fill on Bottom: 0.00m	CHECK ACCUMULATOR WORKING PRESSURE & FLUID LEVEL							
METRES DRILLED		From: 396m		To: 524m	D-R-C: DRILL	RPM: 140	WOB: 5kdaN	REDUCED PUMP SPEED				SAFETY					
		Torque at Bottom: 380.00Nm		Fill on Bottom: 0.00m	Pump No.:				Pressure:	Strokes/min:	Depth:	Safety Topic: MEHL, MACP					
		Hole Drag: 0		Down: 0	Pump #1: 1830				SPM: 52	Pressure: 499	MAKING CONNECTIONS						
		Torque at Bottom: 380.00Nm		Fill on Bottom: 0.00m	Pump #2: 1830				SPM: 52	Pressure: 499	25.00kdaN 5973kPa						

TOUR 3 SIGNATURE OF DRILLER Brad Grant
START TIME 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 2	Size: 222	No: 1	Component: BIT	OD: 222	Length: 0.23m	Mud Type: Other	Water: 0	Oil: 0	Time: 20:00	Depth: 512m	Deviation: 1.19	Direction: 169.98	Type: DIRECTIONAL	From: 20:00	To: 23:45	Elapsed: 3:75	Code: DRILL 222mm HOLE FROM 524m TO 585m
IADC Code: 4 4 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	Length: 0.89m	Density: 1100	Funnel Viscosity: 1110	pH: 9	Time: 22:00	Depth: 524m	Deviation: 1.32	Direction: 177.98	Type: DIRECTIONAL	From: 23:45	To: 24:00	Elapsed: 0:25	Code: ACCUMULATED DEVIATION SURVEYS
Type: FH18B	Serial No: PX2212	No: 1	Component: MONEL	OD: 165	Length: 9.21m	Fluid Loss: 50s/1	49s/1	Location of Sample: Shaker	Time: 22:45	Depth: 551m	Deviation: 88	Direction: 177.85	Type: DIRECTIONAL				
Jets: 14.2 14.2 14.2	Depth Out (m): 585	No: 1	Component: MONEL	OD: 165	Length: 9.31m	Depth: 524m	PVT: 551.72m3		Time: 23:45	Depth: 562m	Deviation: 48	Direction: 187.08	Type: DIRECTIONAL				
Depth In (m): 273	Total Drilled (m): 312	No: 1	Component: MONEL	OD: 165	Length: 9.31m												
Hrs Run Today: 3.75	Cumulative Hrs Run: 32.25	No: 1	Component: MONEL	OD: 165	Length: 9.31m												
Entry Date: 2012/09/28		No: 1	Component: MONEL	OD: 165	Length: 9.31m												
CUTTING STRUCTURE		Drill Pipe: 34		Stands: 0.00m	Singles: 430.87m	CIRCULATION		Pump #1: 0		SPM: 0	Pressure: 9000	Hours Run: 0	SAFETY				
TI: Gage	TO: ODC	Kelly Down: 0.00m		Total: 585.00m	Pump #2: 165		SPM: 125	Pressure: 9000	Hours Run: 0	Remarks: SET HIGH AND LOW POINT							
MDC: Reason Pulled	LOC: Total Run (m/hr): 9.67	Weight of DC: 20kdaN		Weight of String: 28kdaN	Pump No.:		Pressure:	Strokes/min:	Depth:	VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM							
BRG:		Hole Drag: 0		Down: 0	Torque at Bottom: 500.00Nm				Fill on Bottom: 0.00m	REVIEW JSA ON DRIVING LOADER							
METRES DRILLED		From: 524m		To: 585m	D-R-C: DRILL	RPM: 150	WOB: 15kdaN	REDUCED PUMP SPEED				SAFETY					
		Torque at Bottom: 500.00Nm		Fill on Bottom: 0.00m	Pump No.:				Pressure:	Strokes/min:	Depth:	Safety Topic: MEHL, MACP					
		Hole Drag: 0		Down: 0	Pump #1: 1830				SPM: 52	Pressure: 499	DRIVING THE LOADER						
		Torque at Bottom: 380.00Nm		Fill on Bottom: 0.00m	Pump #2: 1830				SPM: 52	Pressure: 499	25.00kdaN 5973kPa						

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN1_20120929_1E
 Vendor Software Version: Pason
 Year: 2012, Month: 09, Day: 29
 License No: 1129, Well Name: NCF E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Provenient: Y, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Signature of Operator Representative: JUSTIN COBAN
 Signature of Contractor's Rig Manager: Duncan Dittrick

DAILY CHECKS

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well Licence & Stick Diagram Posted
- Flare Lines Staked
- BOP Drills Performed
- Visually Inspected BOPs - Flare Lines & Degasser Lines
- Rig Site Health & Safety Meeting (one/crew/month)
- CAODC Rig Safety Inspection Checklist (one/rig/month)
- Most Inspection before Raising or Lowering
- Down Saver Checked
- Motor Kills Checked



CODE	HOURS																								TOTAL	FUEL @ 08:00 HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Tour 1			7.50				0.50																			8.00
Tour 2			11.00				0.25				0.50															12.00
Tour 3			3.75								0.25															4.00
Total			22.25				0.75				0.75															24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number, Size, IADC Code, Manufacturer, Type, Serial No, Jets, Depth Out (m), Depth In (m), Total Drilled (m), Hrs Run Today, Cumulative Hrs Run, Entry Date	No, Component, OD, ID, Length, Kelly Down, Total, Weight of DC, Weight of String	Mud Type, Water, Oil, Other, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation, Pump#, Type, Liner Size, SPM, Pressure, Hours Run	Time, Depth, Deviation, Direction, Type, SOLIDS CONTROL, Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density, MUD MATERIALS ADDED, Product, Amount, Type	From, To, Elapsed, Code, Details of Operations in Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	Boiler	SAFETY
TI, TO, MDC, LOC, BRG, Gage, ODC, Reason Pulled, Total Run (m/hr)	Hole Drag, Up, Down, Torque at Bottom, Fill on Bottom	Pump No., Pressure, Strokes/min, Depth	Boiler #, Hours Run, pH, Stack Temp	Safety Topic, MEHL, MACP

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number, Size, IADC Code, Manufacturer, Type, Serial No, Jets, Depth Out (m), Depth In (m), Total Drilled (m), Hrs Run Today, Cumulative Hrs Run, Entry Date	No, Component, OD, ID, Length, Kelly Down, Total, Weight of DC, Weight of String	Mud Type, Water, Oil, Other, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation, Pump#, Type, Liner Size, SPM, Pressure, Hours Run	Time, Depth, Deviation, Direction, Type, SOLIDS CONTROL, Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density, MUD MATERIALS ADDED, Product, Amount, Type	From, To, Elapsed, Code, Details of Operations in Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	Boiler	SAFETY
TI, TO, MDC, LOC, BRG, Gage, ODC, Reason Pulled, Total Run (m/hr)	Hole Drag, Up, Down, Torque at Bottom, Fill on Bottom	Pump No., Pressure, Strokes/min, Depth	Boiler #, Hours Run, pH, Stack Temp	Safety Topic, MEHL, MACP

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number, Size, IADC Code, Manufacturer, Type, Serial No, Jets, Depth Out (m), Depth In (m), Total Drilled (m), Hrs Run Today, Cumulative Hrs Run, Entry Date	No, Component, OD, ID, Length, Kelly Down, Total, Weight of DC, Weight of String	Mud Type, Water, Oil, Other, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation, Pump#, Type, Liner Size, SPM, Pressure, Hours Run	Time, Depth, Deviation, Direction, Type, SOLIDS CONTROL, Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density, MUD MATERIALS ADDED, Product, Amount, Type	From, To, Elapsed, Code, Details of Operations in Sequence & Remarks
CUTTING STRUCTURE	HOLE CONDITION	REDUCED PUMP SPEED	Boiler	SAFETY
TI, TO, MDC, LOC, BRG, Gage, ODC, Reason Pulled, Total Run (m/hr)	Hole Drag, Up, Down, Torque at Bottom, Fill on Bottom	Pump No., Pressure, Strokes/min, Depth	Boiler #, Hours Run, pH, Stack Temp	Safety Topic, MEHL, MACP

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No UNKN1_20120929_1E Vendor Software Version Pason Year 2012 Month 09 Day 29

License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56 N/137:14:46.85W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

DRILLING ASSEMBLY				TOUR 1			DRILLING ASSEMBLY				TOUR 2			DRILLING ASSEMBLY				TOUR 3		
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	
1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	
1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	
1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	
1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	
1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	
2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	
1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	
8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	
1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	
0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	
19	Drill Pipe	Singles		242.86	29	Drill Pipe	Singles		369.87	34	Drill Pipe	Singles		430.87	34	Drill Pipe	Singles		430.87	
Kelly Down				0.00	Kelly Down				0.00	Kelly Down				0.00	Kelly Down				0.00	
Total				396.99	Total				524.00	Total				585.00	Total				585.00	
Weight of DC				20.00	Weight of DC				20.00	Weight of DC				20.00	Weight of DC				20.00	
Weight of String				22.00	Weight of String				25.00	Weight of String				26.00	Weight of String				26.00	

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	RIG SERVICE	17:00	499

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120929_1E Vendor: Pason Software Version: 2012 Year: 2012 Month: 09 Day: 29



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR 1	MUD TYPE Polymer	WATER x	OIL	OTHER
---------------	-------------------------	----------------	------------	--------------

Time	01:30	03:15	06:00														
Density	1045kg/m3	1045kg/m3	1050kg/m3														
Funnel Viscosity	47s/l	43s/l	50s/l														
Fluid Loss	9.5cm3	9.5cm3	8cm3														
Fluid pH	9.5	9	9														
Location of Sample	Shaker	Shaker	Shaker														
Depth	367.06m	380.29m	395m														
PVT	35.06m3	35.7m3	43.6m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120929_1E Vendor: Pason Software Version: 2012 Year: 2012 Month: 09 Day: 29



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 **MUD TYPE** gel -chem **WATER** x **OIL** **OTHER**

Time	08:00	10:00	14:00	19:30													
Density	1055kg/m3	1060kg/m3	1070kg/m3	1070kg/m3													
Funnel Viscosity	52s/l	83s/l	60s/l	58s/l													
Fluid Loss	3.0cm3	8.0cm3	8.5cm3	8.5cm3													
Fluid pH	8.0	9.5	9.5	9.5													
Location of Sample	SHAKER	shaker	shaker	SHAKER													
Depth	400.60m	416.79m	451.4m	504.9m													
PVT		44.2m3	41m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No UNKN1_20120929_1E	Vendor Pason	Software Version	Year 2012	Month 09	Day 29
License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR	3	MUD TYPE	Polymer	WATER	<input checked="" type="checkbox"/>	OIL	<input type="checkbox"/>	OTHER	
-------------	----------	-----------------	---------	--------------	-------------------------------------	------------	--------------------------	--------------	--

Time	20:00	22:00																		
	Density	1100kg/m3	1110kg/m3																	
Funnel Viscosity	50s/l	40s/l																		
Fluid Loss	8cm3	6cm3																		
Fluid pH	9	9																		
Location of Sample	Shaker	Shaker																		
Depth	524m	551.72m																		
PVT	41.3m3	52m3																		
Test 1	Type (Ex: Chlorides)																			
	Value																			
Test 2	Type (ex: Sand%)																			
	Value																			
Test 3	Type (ex: Hard Ca)																			
	Value																			
Test 4	Type (ex: Sulfides)																			
	Value																			

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78 Operator NORTHERN CROSS YUKON

Tour Sheet Serial Number JNK11_20120930_1D Vendor Software Version Pason Year 2012 Month 09 Day 30

DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List)



Table with 25 columns (CODE 1-25) and 1 row (TOTAL) for hours and other metrics. Includes a 'FUEL @ 08:00 HOURS' section.

TOUR 1 SIGNATURE OF DRILLER [Signature] START TIME 00:00 END TIME 08:00

TOUR 1 detailed log form including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY, and Boiler sections.

TOUR 2 SIGNATURE OF DRILLER [Signature] START TIME 08:00 END TIME 20:00

TOUR 2 detailed log form including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY, and Boiler sections.

TOUR 3 SIGNATURE OF DRILLER [Signature] START TIME 20:00 END TIME 24:00

TOUR 3 detailed log form including BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY, and Boiler sections.

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20120930_1D

Vendor Software Version
Pason

Year Month Day
2012 09 30

License No 1129
Well Name NCY E Chance E-78.

Surface Location
66:07:18.56 N/137:14:46.85W

Prov YT
Loc Type LAT-LONG
Unique Well Id 300e786610137000

Operator
NORTHERN CROSS YUKON
Operator's AFE
1C-O20-D02
Signature of Operator Representative
JUSTIN COBAIN

Contractor
NORTHERN CROSS YUKON
Contractor's Job No
1
Signature of Contractor's Rig Manager
Duncan Dittrick

Rig No 1
Well Type VERT
Spud Date Time 2012/09/19 01:00
Rig Release Date Time
Re-Entry



Pason

DRILLING ASSEMBLY				TOUR 1			DRILLING ASSEMBLY				TOUR 2			DRILLING ASSEMBLY				TOUR 3		
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	
1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	
1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	
1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	
1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	
1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	
2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	
1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	
8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	
1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	
0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	
40	Drill Pipe	Singles		512.49	45	Drill Pipe	Singles		565.87	46	Drill Pipe	Singles		584.87	46	Drill Pipe	Singles		584.87	
Kelly Down				0.00	Kelly Down				0.00	Kelly Down				0.00	Kelly Down				0.00	
Total				666.62	Total				720.00	Total				739.00	Total				739.00	
Weight of DC				20.00	Weight of DC				20.00	Weight of DC				20.00	Weight of DC				20.00	
Weight of String				26.00	Weight of String				26.00	Weight of String				26.00	Weight of String				26.00	

SPECIAL EVENTS				
Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	STEAM USE	08:30	669

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120930_1D Vendor: Pason Software Version: 2012 Year: 2012 Month: 09 Day: 30



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** Polymer **WATER** x **OIL** **OTHER**

Time	00:15	02:15	04:00	06:00														
Density	1120kg/m3	1130kg/m3	1140kg/m3	1150kg/m3														
Funnel Viscosity	40s/l	53s/l	50s/l	51s/l														
Fluid Loss	6cm3	6cm3	6cm3	6cm3														
Fluid pH	9	9	9	9														
Location of Sample	Shaker	Shaker	Shaker	Shaker														
Depth	586.77m	618m	649.48m	664.85m														
PVT	56.7m3	43m3	46.2m3															
Test 1	Type (Ex: Chlorides)																	
	Value																	
Test 2	Type (ex: Sand%)																	
	Value																	
Test 3	Type (ex: Hard Ca)																	
	Value																	
Test 4	Type (ex: Sulfides)																	
	Value																	

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20120930_1D Vendor: Pason Software Version: 2012 Year: 2012 Month: 09 Day: 30



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 **MUD TYPE** GEL-CHEM **WATER** x **OIL** **OTHER**

Time	08:00	11:00	16:00	18:00													
Density	1155kg/m3	1170kg/m3	1135kg/m3	1140kg/m3													
Funnel Viscosity	54s/l	53s/l	47s/l	45s/l													
Fluid Loss	6.0cm3	6.0cm3	6.5cm3	6.5cm3													
Fluid pH	10.0	10.0	9.5	9.5													
Location of Sample	SHAKER	SHAKER	SHAKER	SHAKER													
Depth	671.21m	688.92m	704m	710.95m													
PVT																	
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No UNKN1_20120930_1D	Vendor Pason	Software Version	Year 2012	Month 09	Day 30
License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR	3	MUD TYPE	Gel-Polymer	WATER	<input checked="" type="checkbox"/>	OIL	<input type="checkbox"/>	OTHER	
-------------	----------	-----------------	-------------	--------------	-------------------------------------	------------	--------------------------	--------------	--

Time	20:00	22:00	23:45														
Density	1150kg/m3	1165kg/m3	1175kg/m3														
Funnel Viscosity	40s/l	43s/l	50s/l														
Fluid Loss	6cm3	7cm3	6cm3														
Fluid pH	9	9	9														
Location of Sample	Shaker	Shaker	Shaker														
Depth	719.64m	730.07m	740.12m														
PVT	58.4m3	58.1m3	58.1m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN1_20121001_1D
 Vendor Software Version: Pason
 Year: 2012 Month: 10 Day: 01
 License No: 1129 Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT Loc Type: LAT-LONG Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02 Contractor's Job No: 1
 Signature of Operator Representative: JUSTIN COBAN Signature of Contractor's Rig Manager: Duncan Dittrick
 Rig No: 1 Well Type: VERT
 Spud Date Time: 2012/09/19 01:00
 Rig Release Date Time:

DAILY CHECKS
 1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well Licence & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 8) 8000
 9) 8000
 10) 8000
 11) 8000
 12) 8000
 13) 8000
 14) 8000
 15) 8000
 16) 8000
 17) 8000
 18) 8000
 19) 8000
 20) 8000
 21) 8000
 22) 8000
 23) 8000
 24) 8000
 25) 8000
 1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Crown Saver Checked
 5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1		7.25					0.25				0.25														0.25	8.00
Tour 2		10.75					0.25				0.25														0.50	12.00
Tour 3		4.00																								4.00
Total		22.00					0.50				0.50														0.75	24.00

Kelly Busting: 4.91 On Fuel: 2500.00
 Fuel @ 08:00 HOURS
 Rig: 6400.00 Meter: 2500.00
 Time: 06:00 Temp: 2.20
 Wind Direction: SE Wind Strength: CALM
 Road Condition: GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 2	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 02:00	Depth: 730m	Deviation: 1.41	Direction: 347.26	Type: DIRECTIONAL	From: 00:00	To: 07:15	Elapsed: 7.25	Code: 222	Details: DRILL 222mm HOLE FROM 739m TO 769m
IADC Code: 4 4 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: POLYMER	Time: 11:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL	From: 07:15	To: 07:30	Elapsed: 0.25	Code: 222	Details: RIG SERVICE
Type: FH18B	Serial No: PX2212	No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.21m	Density: 1180	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL	From: 07:30	To: 07:45	Elapsed: 0.25	Code: 222	Details: OTHER
Jets: 14.2 14.2 14.2	Depth Out (m): 769	No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	Funnel Viscosity: 50s/1 49s/1	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL	From: 07:45	To: 08:00	Elapsed: 0.25	Code: 222	Details: DEVIATION SURVEY
Depth In (m): 273	Total Drilled (m): 496	No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	Fluid Loss: 5cm/3 5.5cm/3	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
Hrs Run Today: 7.25	Cumulative Hrs Run: 62.00	No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	pH: 9 9.5	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
Entry Date: 2012/09/28		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	Location of Sample: Shaker	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	Depth: 747.98m	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	PVT: 57.30m/3 56.52m/3	Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00	Depth: 744m	Deviation: 1.71	Direction: 6.77	Type: DIRECTIONAL					
		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m		Time: 04:00									

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20121001_1D

Vendor Software Version
Pason

Year Month Day
2012 10 01

License No 1129
Well Name NCY E Chance E-78.

Surface Location
66:07:18.56 N/137:14:46.89 W

Prov YT
Loc Type LAT-LONG
Unique Well Id 300e786610137000

Operator
NORTHERN CROSS YUKON
Operator's AFE
1C-O20-D02
Signature of Operator Representative
JUSTIN COBAIN

Contractor
NORTHERN CROSS YUKON
Contractor's Job No
1
Signature of Contractor's Rig Manager
Duncan Dittrick

Rig No 1
Well Type VERT
Spud Date Time 2012/09/19 01:00
Rig Release Date Time
Re-Entry



Pason

DRILLING ASSEMBLY					DRILLING ASSEMBLY					DRILLING ASSEMBLY				
TOUR 1					TOUR 2					TOUR 3				
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23
1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89
1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21	1	MONEL	165.00	0.71	9.21
1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61	1	X/O	165.00	0.71	0.61
1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31	1	MONEL	165.00	0.71	9.31
2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64	2	DC (6.50 IN)	163.00	60.00	25.64
1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96	1	JARS-MECH	167.00	73.00	4.96
8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45	8	DC (6.50 IN)	163.00	60.00	102.45
1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83	1	X/O	103.00	0.65	.83
0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00	0	Drill Pipe	Stands		0.00
48	Drill Pipe	Singles		614.87	51	Drill Pipe	Singles		659.87	53	Drill Pipe	Singles		672.87
Kelly Down				0.00	Kelly Down				0.00	Kelly Down				0.00
Total				769.00	Total				814.00	Total				827.00
Weight of DC				20.00	Weight of DC				20.00	Weight of DC				20.00
Weight of String				26.00	Weight of String				28.00	Weight of String				28.00

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	NEW JOB ORIENTATION	NEW EMPLOYEES	15:00	795

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121001_1D Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 01



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	02:00	04:00	06:00														
Density	1175kg/m3	1180kg/m3	1180kg/m3														
Funnel Viscosity	50s/l	40s/l	50s/l														
Fluid Loss	5cm3	5.5cm3	6cm3														
Fluid pH	9	9.5	9.5														
Location of Sample	Shaker	Shaker	Shaker														
Depth	747.98m	755.79m	763.12m														
PVT	57.30m3	56.52m3	56.9m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121001_1D Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 01



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 MUD TYPE WATER WATER OIL OTHER POLYMER

	Time	MUD TYPE			WATER	WATER	OIL	OTHER	POLYMER									
		08:00	14:00	17:00														
Density	1180kg/m3	1160kg/m3	1155kg/m3															
Funnel Viscosity	49s/l	43s/l	47s/l															
Fluid Loss	6.5cm3	6.5cm3	6.5cm3															
Fluid pH	9.5	9.5	9.0															
Location of Sample	SHAKER	SHAKER	SHAKER															
Depth	769m	791.9m	805.5m															
PVT																		
Test 1	Type (Ex: Chlorides)																	
	Value																	
Test 2	Type (ex: Sand%)																	
	Value																	
Test 3	Type (ex: Hard Ca)																	
	Value																	
Test 4	Type (ex: Sulfides)																	
	Value																	

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121001_1D Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 01



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 3 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	20:00	23:45																		
	Density	1170kg/m3	1180kg/m3																	
Funnel Viscosity	4Cs/l	41s/l																		
Fluid Loss	5.5cm3	6cm3																		
Fluid pH	9	9.5																		
Location of Sample	Shaker	Shaker																		
Depth	814.14m	827m																		
PVT	37.1m3	43.2m3																		
Test 1	Type (Ex: Chlorides)																			
	Value																			
Test 2	Type (ex: Sand%)																			
	Value																			
Test 3	Type (ex: Hard Ca)																			
	Value																			
Test 4	Type (ex: Sulfides)																			
	Value																			

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20121002_1C
 Vendor Software Version: Pason
 Year: 2012, Month: 10, Day: 02
 License No: 1129, Well Name: NCF E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1
 Well Type: VERT
 Re-Entry:
 Operator's AFE: 1C-O20-D02
 Contractor's Job No: 1
 Spud Date Time: 2012/09/19 01:00
 Signature of Operator Representative: JUSTIN COBAN
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Rig Release Date Time:

- DAILY CHECKS**
- Daily Walk Around Inspection
 - Detailed Inspection - Weekly (Using Check List)
 - H2S Signs Posted if Required
 - Well License & Stick Diagram Posted
 - Flare Lines Staked
 - 80P Drills Performed
 - Visually Inspected 80Ps - Flare Lines & Degasser Lines
 - Rig Site Health & Safety Meeting (one/crew/month)
 - CAODC Rig Safety Inspection Checklist (one/rig/month)
 - Must Inspect before Raising or Lowering
 - Down Saver Checked
 - Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Hours		2.00	2.75		0.25	2.25	0.25																			8.00
Tour 1																										0.50
Tour 2																										12.00
Tour 3																										4.00
Total		2.00	6.25		0.25	14.00	0.75																			24.00

FUEL @ 08:00 HOURS

Rig	3360.00	Water	1760.00
Time	06:00	Temp	-4.00

WEATHER

Wind Direction	SE	Wind Strength	UP TO 19 KM/H
Cloud Condition	GOOD		

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG							
Bit Number: 2	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 02:00	Depth: 821m						
IADC Code: 4 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: Oil	Time: 02:05	Depth: 821m						
Type: FH18B	Serial No: PX2212	No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.21m	Time: 02:15	Depth: 821m	Deviation: 2.59						
Jets: 14.2 14.2 14.2		No: 1	Component: X/O	OD: 165	ID: 1	Length: 0.61m	Time: 02:20	Depth: 821m	Direction: 60.16						
Depth Out (m): 832		No: 2	Component: DC (6.5 IN)	OD: 163	ID: 60	Length: 25.64m	Time: 02:25	Depth: 821m	Type: DIRECTIONAL						
Depth In (m): 273		No: 1	Component: JARS-MECH	OD: 167	ID: 73	Length: 4.96m	Time: 02:30	Depth: 821m							
Total Drilled (m): 559		No: 8	Component: DC (6.5 IN)	OD: 163	ID: 60	Length: 102.45m	Time: 02:35	Depth: 821m							
Hrs Run Today: 2.00		No: 1	Component: X/O	OD: 103	ID: 1	Length: 0.83m	Time: 02:40	Depth: 821m							
Cumulative Hrs Run: 72.75							Time: 02:45	Depth: 821m							
Entry Date: 2012/09/28							Time: 02:50	Depth: 821m							
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		SOLIDS CONTROL		MUD MATERIALS ADDED							
TI: 1	Gage: 0	Hole Drag: Up 1 Down 2	Standards: 666.22m	Pump No: 1	Pressure: 152	Strokes/min: 140	Equipment Name: FED PAC R	Amount: 1	Type: SX						
TO: 2	ODC: BU	Torque at Bottom: 200.00Nm	Singles: 11.65m	Pump No: 2	Pressure: 165	Strokes/min: 0	Equipment Name: KELZAN XCD POLYMER	Amount: 1	Type: SX						
MDC: BT	Reason Pulled: TO	Fill on Bottom: 0.00m	Kelly Down: 0.00m				Equipment Name: SODA ASH	Amount: 1	Type: SX						
LOC: M	Total Run (m/hr): 7.68		Total: 832.00m				Equipment Name: FED WATE	Amount: 41	Type: SX						
BRG: E			Weight of DC: 20kdaN												
			Weight of String: 28kdaN												
<p>Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM DRILLERS WALK AROUND=OK REVIEW JSA ON STEAM USE</p>															
<p>SAFETY</p> <table border="1"> <tr> <td>Safety Topic</td> <td>MEHL</td> <td>MACP</td> </tr> <tr> <td>STEAM USE</td> <td>29.00kdaN</td> <td>5705kPa</td> </tr> </table>										Safety Topic	MEHL	MACP	STEAM USE	29.00kdaN	5705kPa
Safety Topic	MEHL	MACP													
STEAM USE	29.00kdaN	5705kPa													

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG							
Bit Number: 3	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 08:00	Depth: 821m						
IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: Oil	Time: 10:30	Depth: 821m						
Type: FH21BOD1VPS	Serial No: PX4869	No: 1	Component: SHOCK SUB	OD: 172	ID: 1	Length: 3.70m	Time: 10:45	Depth: 821m	Deviation: 2.59						
Jets: 14.3 14.3 14.3		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.21m	Time: 10:50	Depth: 821m	Direction: 60.16						
Depth Out (m): 832		No: 1	Component: X/O	OD: 165	ID: 1	Length: 0.61m	Time: 10:55	Depth: 821m	Type: DIRECTIONAL						
Depth In (m): 832		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	Time: 11:00	Depth: 821m							
Total Drilled (m): 0.00		No: 2	Component: DC (6.5 IN)	OD: 163	ID: 60	Length: 25.64m	Time: 11:05	Depth: 821m							
Hrs Run Today: 0.00		No: 1	Component: JARS-MECH	OD: 167	ID: 73	Length: 4.96m	Time: 11:10	Depth: 821m							
Cumulative Hrs Run: 0.00		No: 8	Component: DC (6.5 IN)	OD: 163	ID: 60	Length: 102.45m	Time: 11:15	Depth: 821m							
Entry Date: 2012/10/02		No: 1	Component: X/O	OD: 103	ID: 1	Length: 0.83m	Time: 11:20	Depth: 821m							
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		SOLIDS CONTROL		MUD MATERIALS ADDED							
TI: 1	Gage: 0	Hole Drag: Up 1 Down 2	Standards: 666.22m	Pump No: 1	Pressure: 152	Strokes/min: 0	Equipment Name: SAWDUST	Amount: 2	Type: SX						
TO: 2	ODC: BU	Torque at Bottom: 200.00Nm	Singles: 11.65m	Pump No: 2	Pressure: 165	Strokes/min: 0									
MDC: BT	Reason Pulled: TO	Fill on Bottom: 0.00m	Kelly Down: 0.00m												
LOC: M	Total Run (m/hr): 7.68		Total: 835.70m												
BRG: E			Weight of DC: 20kdaN												
			Weight of String: 28kdaN												
<p>Remarks: CHECK BRAKE SYSTEM, HIGH & LOW SET POINTS TESTED DRILLERS WALK AROUND COMPLETED BY JAMES.M</p>															
<p>SAFETY</p> <table border="1"> <tr> <td>Safety Topic</td> <td>MEHL</td> <td>MACP</td> </tr> <tr> <td>BREAKING OVER TOURGED CONNECTIONS</td> <td>40.00kdaN</td> <td>5732kPa</td> </tr> </table>										Safety Topic	MEHL	MACP	BREAKING OVER TOURGED CONNECTIONS	40.00kdaN	5732kPa
Safety Topic	MEHL	MACP													
BREAKING OVER TOURGED CONNECTIONS	40.00kdaN	5732kPa													

TOUR 3 SIGNATURE OF DRILLER James Mackinnon **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG							
Bit Number: 3	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 20:00	Depth: 821m						
IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: Oil	Time: 20:15	Depth: 821m						
Type: FH21BOD1VPS	Serial No: PX4869	No: 1	Component: SHOCK SUB	OD: 172	ID: 1	Length: 3.70m	Time: 20:20	Depth: 821m	Deviation: 2.59						
Jets: 14.3 14.3 14.3		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.21m	Time: 20:25	Depth: 821m	Direction: 60.16						
Depth Out (m): 832		No: 1	Component: X/O	OD: 165	ID: 1	Length: 0.61m	Time: 20:30	Depth: 821m	Type: DIRECTIONAL						
Depth In (m): 832		No: 1	Component: MONEL	OD: 165	ID: 1	Length: 9.31m	Time: 20:35	Depth: 821m							
Total Drilled (m): 0.00		No: 2	Component: DC (6.5 IN)	OD: 163	ID: 60	Length: 25.64m	Time: 20:40	Depth: 821m							
Hrs Run Today: 0.00		No: 1	Component: JARS-MECH	OD: 167	ID: 73	Length: 4.96m	Time: 20:45	Depth: 821m							
Cumulative Hrs Run: 0.00		No: 8	Component: DC (6.5 IN)	OD: 163	ID: 60	Length: 102.45m	Time: 20:50	Depth: 821m							
Entry Date: 2012/10/02		No: 1	Component: X/O	OD: 103	ID: 1	Length: 0.83m	Time: 20:55	Depth: 821m							
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		SOLIDS CONTROL		MUD MATERIALS ADDED							
TI: 1	Gage: 0	Hole Drag: Up 1 Down 2	Standards: 538.36m	Pump No: 1	Pressure: 152	Strokes/min: 140	Equipment Name: SAWDUST	Amount: 2	Type: SX						
TO: 2	ODC: BU	Torque at Bottom: 200.00Nm	Singles: 8.81m	Pump No: 2	Pressure: 165	Strokes/min: 0									
MDC: BT	Reason Pulled: TO	Fill on Bottom: 0.00m	Kelly Down: 0.00m												
LOC: M	Total Run (m/hr): 7.68		Total: 705.00m												
BRG: E			Weight of DC: 20kdaN												
			Weight of String: 28kdaN												
<p>Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM REVIEW JSA ON REAMING REAM BRIDGE @ 685m</p>															
<p>SAFETY</p> <table border="1"> <tr> <td>Safety Topic</td> <td>MEHL</td> <td>MACP</td> </tr> <tr> <td>REAMING</td> <td>30.00kdaN</td> <td>5625kPa</td> </tr> </table>										Safety Topic	MEHL	MACP	REAMING	30.00kdaN	5625kPa
Safety Topic	MEHL	MACP													
REAMING	30.00kdaN	5625kPa													

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78. Operator NORTHERN CROSS YUKON. Contractor NORTHERN CROSS YUKON. Signature of Operator Representative JUSTIN COBAN.

Tour Sheet Serial Number JNK11_20121003_1B. Vendor Software Version Pason. Year 2012. Month 10. Day 03. Surface Location 66:07:18.56N/137:14:46.88W.

DAILY CHECKS: 1) Daily Walk Around Inspection, 2) Detailed Inspection - Weekly (Using Check List), 3) H2S Signs Posted if Required, 4) Well License & Stick Diagram Posted, 5) Flare Lines Staked, 6) BOP Drills Performed, 7) Visually Inspected BOPs - Flare Lines & Degasser Lines.



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Concl Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Drill Log, Dev Survey, Wireline Logs, Run Csg & Cement, Wait On Cement, Nipple Up BOP, Test BOP, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL. Includes FUEL @ 08:00 HOURS and WEATHER summary.

TOUR 1 SIGNATURE OF DRILLER: Brad Grant. START TIME: 00:00. END TIME: 08:00.

TOUR 1 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY. Includes detailed logs for drilling parameters, mud properties, and safety observations.

TOUR 2 SIGNATURE OF DRILLER: James Mackinnon. START TIME: 08:00. END TIME: 20:00.

TOUR 2 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY. Includes detailed logs for drilling parameters, mud properties, and safety observations.

TOUR 3 SIGNATURE OF DRILLER: Brad Grant. START TIME: 20:00. END TIME: 24:00.

TOUR 3 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY. Includes detailed logs for drilling parameters, mud properties, and safety observations.

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121003_1B Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 03



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	03:00	05:00	06:15														
Density	1235kg/m3	1240kg/m3	1250kg/m3														
Funnel Viscosity	44s/l	45s/l	46s/l														
Fluid Loss	6cm3	6cm3	6cm3														
Fluid pH	9	9	9														
Location of Sample	Shaker	Shaker	Shaker														
Depth	836m	841.38m	844.72m														
PVT	42.9m3	42.8m3	42.8m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121003_1B Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 03



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 2 **MUD TYPE** GEL-CHEM **WATER** x **OIL** **OTHER**

Time	08:00	15:00	17:00														
Density	1245kg/m3	1150kg/m3	1145kg/m3														
Funnel Viscosity	47s/l	54s/l	52s/l														
Fluid Loss	6.5cm3	6.5cm3	6.0cm3														
Fluid pH	9.0	9.0	9.0														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	849.65m	862m	864.27m														
PVT																	
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78. Operator NORTHERN CROSS YUKON. Contractor NORTHERN CROSS YUKON. Signature of Operator Representative JUSTIN COBAN.

DAILY CHECKS: 1) Daily Walk Around Inspection, 2) Detailed Inspection - Weekly (Using Check List), 3) H2S Signs Posted if Required, 4) Well License & Stick Diagram Posted, 5) Flare Lines Staked, 6) BOP Drills Performed, 7) Visually Inspected BOPs - Flare Lines & Degasser Lines.



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc. Total hours: 24.00.

TOUR 1 SIGNATURE OF DRILLER: Brad Grant. START TIME: 00:00, END TIME: 08:00.

TOUR 1 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY. Includes detailed data for bits, mud properties, and safety notes.

TOUR 2 SIGNATURE OF DRILLER: James Mackinnon. START TIME: 08:00, END TIME: 20:00.

TOUR 2 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY. Includes detailed data for bits, mud properties, and safety notes.

TOUR 3 SIGNATURE OF DRILLER: Brad Grant. START TIME: 20:00, END TIME: 24:00.

TOUR 3 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY. Includes detailed data for bits, mud properties, and safety notes.

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Tour Sheet Serial Number JKN11_20121004_1C	Vendor Software Version Pason	Year 2012	Month 10	Day 04
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1	Well Type VERT	
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Re-Entry <input type="checkbox"/>		
Signature of Operator Representative JUSTIN COBAN		Signature of Contractor's Rig Manager Duncan Dittrick		Spud Date Time 2012/09/19 01:00		
				Rig Release Date Time		

DAILY CHECKS

<input type="checkbox"/>	1) Daily Walk Around Inspection
<input type="checkbox"/>	2) Detailed Inspection - Weekly (Using Check List)
<input type="checkbox"/>	3) H2S Signs Posted if Required
<input type="checkbox"/>	4) Well License & Stick Diagram Posted
<input type="checkbox"/>	5) Flare Lines Staked
<input type="checkbox"/>	6) BOP Drills Performed
<input type="checkbox"/>	7) Visually Inspected BOPs - Flare Lines & Degasser Lines
<input type="checkbox"/>	1) Rig Site Health & Safety Meeting (one/crew/month)
<input type="checkbox"/>	2) CAODC Rig Safety Inspection Checklist (one/rig/month)
<input type="checkbox"/>	3) Mast Inspection before Raising or Lowering
<input type="checkbox"/>	4) Crown Saver Checked
<input type="checkbox"/>	5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1		7.75					0.25																			8.00
Tour 2		0.25		1.50	1.75	7.50	0.25														0.75					12.00
Tour 3			0.25			3.75																				4.00
Total		8.00	0.25	1.50	1.75	11.25	0.50														0.75					24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT	DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
CUTTING STRUCTURE TI TO MDC LOC BRG	HOLE CONDITION Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/> Torque at Bottom Fill on Bottom	CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run	SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density	SAFETY Safety Topic MEHL MACP
METRES DRILLED From To D-R-C RPM WOB	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	Boiler Boiler # Hours Run pH Stack Temp	MAKING A CONNECTION 31.00kdaN 5705kPa

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT	DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
CUTTING STRUCTURE TI TO MDC LOC BRG	HOLE CONDITION Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/> Torque at Bottom Fill on Bottom	CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run	SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density	SAFETY Safety Topic MEHL MACP
METRES DRILLED From To D-R-C RPM WOB	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	Boiler Boiler # Hours Run pH Stack Temp	COMMUNICATION 45.00kdaN 5732kPa

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/> Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT	DEVIATION SURVEYS Time Depth Deviation Direction Type	TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks
CUTTING STRUCTURE TI TO MDC LOC BRG	HOLE CONDITION Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/> Torque at Bottom Fill on Bottom	CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run	SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density	SAFETY Safety Topic MEHL MACP
METRES DRILLED From To D-R-C RPM WOB	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth @ @ @ @	Boiler Boiler # Hours Run pH Stack Temp	TRIPPING IN THE HOLE 25.00kdaN 5705kPa

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121004_1C Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 04



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	00:30	02:00	04:00	06:00													
Density	1160kg/m3	1155kg/m3	1155kg/m3	1160kg/m3													
Funnel Viscosity	53s/l	50s/l	49s/l	49s/l													
Fluid Loss	5.5cm3	5.5cm3	5cm3	5cm3													
Fluid pH	9	9	9	9													
Location of Sample	Shaker	Shaker	Shaker	Shaker													
Depth	869m	874.89m	879.14m	884.43m													
PVT	42m3	42.1m3	43.5m3	44.3m3													
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78. Tour Sheet Serial Number JNKN1_20121005_1A Vendor Software Version Pason Year 2012 Month 10 Day 05

DAILY CHECKS: 1) Daily Walk Around Inspection, 2) Detailed Inspection - Weekly (Using Check List), 3) H2S Signs Posted if Required, 4) Well License & Stick Diagram Posted, 5) Flare Lines Staked, 6) BOP Drills Performed, 7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Table with 25 columns (CODE 1-25) and 4 rows (Tour 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, etc. Total hours: 24.00.

TOUR 1 SIGNATURE OF DRILLER: Brad Grant. START TIME: 00:00, END TIME: 08:00.

TOUR 1 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER: James Mackinnon. START TIME: 08:00, END TIME: 20:00.

TOUR 2 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER: Brad Grant. START TIME: 20:00, END TIME: 24:00.

TOUR 3 Data Section: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20121005_1A

Vendor Software Version
Pason

Year Month Day
2012 10 05

License No 1129 Well Name NCY E Chance E-78

Surface Location
66:07:18.56 N/137:14:46.85W

Prov YT Loc Type LAT-LONG Unique Well Id 300e786610137000

Operator
NORTHERN CROSS YUKON
Operator's AFE
1C-O20-D02
Signature of Operator Representative
JUSTIN COBAIN

Contractor
NORTHERN CROSS YUKON
Contractor's Job No
1
Signature of Contractor's Rig Manager
Duncan Dittrick

Rig No 1 Well Type VERT Re-Entry
Spud Date Time
2012/09/19 01:00
Rig Release Date Time



Pason

DRILLING ASSEMBLY					DRILLING ASSEMBLY					DRILLING ASSEMBLY				
TOUR 1					TOUR 2					TOUR 3				
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length
1	BIT	200		.32	1	BIT	200		.32	1	BIT	222.00	0.00	0.23
2	CORE BBL	165	114	19.83	2	CORE BBL	165	114	19.83	1	BIT SUB	168.00	0.71	0.89
1	JARS-MECH	165		4.28	1	JARS-MECH	165		4.28	1	SHOCK SUB	165.00	0.64	3.70
1	X/O	165		.23	1	X/O	165		.23	1	DC (6.50 IN)	163.00	60.00	12.83
1	BIT SUB	163.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	DC (6.50 IN)	163.00	60.00	12.81
10	DC (6.50 IN)	163.00	60.00	128.09	10	DC (6.50 IN)	163.00	60.00	128.09	1	DC (6.50 IN)	163.00	60.00	12.82
1	X/O	128.00	0.73	0.83	1	X/O	128.00	0.73	0.83	1	JARS-MECH	167	73	4.96
										5	DC (6.50 IN)	163.00	60.00	64.00
										1	DC (6.50 IN)	163.00	60.00	12.83
										1	DC (6.50 IN)	163.00	60.00	12.80
										1	X/O	128.00	0.73	0.83
58	Drill Pipe			743.56	95	Drill Pipe			756.03	59	Drill Pipe			756.12
0	Drill Pipe			0.00	0	Drill Pipe			0.00	0	Drill Pipe			0.00
	Kelly Down			0.00		Kelly Down			0.00		Kelly Down			0.00
	Total			898.03		Total			910.50		Total			894.82
	Weight of DC					Weight of DC			20.00		Weight of DC			20.00
	Weight of String					Weight of String			30.00		Weight of String			31.00

SPECIAL EVENTS				
Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	RETRIEVE CORE	13:30	910

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121005_1A
 Vendor: Pason
 Software Version: 2012
 Year: 2012
 Month: 10
 Day: 05



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR	1	MUD TYPE	Gel-Polymer	WATER	<input checked="" type="checkbox"/>	OIL	<input type="checkbox"/>	OTHER	
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Time	02:00	03:15	04:15	06:00														
Density	1200kg/m3	1180kg/m3	1180kg/m3	1180kg/m3														
Funnel Viscosity	63s/l	54s/l	49s/l	48s/l														
Fluid Loss	5cm3	5cm3	5cm3	5.5cm3														
Fluid pH	8	8.5	9	9														
Location of Sample	Shaker	Shaker	Shaker	Shaker														
Depth	892m	893.67m	896.37m	901m														
PVT	42.6m3	42.9m3	41.3m3	42.8m3														
Test 1	Type (Ex: Chlorides)																	
	Value																	
Test 2	Type (ex: Sand%)																	
	Value																	
Test 3	Type (ex: Hard Ca)																	
	Value																	
Test 4	Type (ex: Sulfides)																	
	Value																	

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121005_1A
 Vendor: Pason
 Software Version: 2012
 Year: 2012
 Month: 10
 Day: 05



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Spud Date Time 2012/09/19 01:00	
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick		Rig Release Date Time	



Pason

TOUR 3 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	22:45	23:45																		
	Density	1200kg/m3	1200kg/m3																	
Funnel Viscosity	62s/l	54s/l																		
Fluid Loss	5cm3	5cm3																		
Fluid pH	8.5	9																		
Location of Sample	Shaker	Shaker																		
Depth	910.53m	910.53m																		
PVT	43.9m3	43.2m3																		
Test 1	Type (Ex: Chlorides)																			
	Value																			
Test 2	Type (ex: Sand%)																			
	Value																			
Test 3	Type (ex: Hard Ca)																			
	Value																			
Test 4	Type (ex: Sulfides)																			
	Value																			

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20121006_1A
 Vendor Software Version: Pason
 Year: 2012, Month: 10, Day: 06
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02
 Signature of Operator Representative: JUSTIN COBAN
 Contractor's Job No: 1
 Signature of Contractor's Rig Manager: Duncan Dittrick

DAILY CHECKS

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well Licence & Stick Diagram Posted
- Flare Lines Staked
- BOP Drills Performed
- Visually Inspected BOPs - Flare Lines & Degasser Lines
- Rig Site Health & Safety Meeting (one/crew/month)
- CAODC Rig Safety Inspection Checklist (one/rig/month)
- Must Inspection before Raising or Lowering
- Down Saver Checked
- Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Tour 1		5.75	1.75				0.50																			8.00
Tour 2		11.50					0.25														0.25					12.00
Tour 3					2.50	1.50																				4.00
Total		17.25	1.75		2.50	1.50	0.75														0.25					24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 3RR	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 01:30	From: 00:00
IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: Other	Density: 1180	To: 01:45
Type: FH21BOD1VPS	Serial No: PX4869	No: 1	Component: SHOCK SUB	OD: 165	ID: 64	Length: 3.70m	Funnel Viscosity: 45s/1	1190	Elapsed: 2.50
Jets: 14.3 14.3 14.3		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 12.83m	Fluid Loss: 5cm3/1	47s/1	Code: REAMING RAT HOLE FROM 892m TO 910M
Depth Out (m): 928		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 12.81m	pH: 9	9	Details of Operations in Sequence & Remarks
Depth In (m): 910		No: 1	Component: JARS-MECH	OD: 167	ID: 73	Length: 4.96m	Location of Sample: Shaker	Shaker	01:45 04:15 2.50
Total Drilled (m): 18		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 64.00m	Depth: 910.53m	917.14m	04:15 04:45 0.50
Hrs Run Today: 5.75		No: 1	Component: X/O	OD: 128	ID: 73	Length: 0.83m	PVT: 42.5m3	42.2m3	04:45 08:00 3.25
Cumulative Hrs Run: 29.50									08:00 08:00 3.25
Cutting Structure: TI, TO, MDC, LOC, BRG									
Metres Drilled: From, To, D-R-C, RPM, WOB									
Hole Condition: Kelly Down, Total, Weight of DC, Weight of String									
Reduced Pump Speed: Pump No., Pressure, Strokes/min, Depth									
Deviation Surveys: Time, Depth, Deviation, Direction, Type									
Solids Control: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density									
Mud Materials Added: Product, Amount, Type									
Safety: Safety Topic, MEHL, MACP									

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 3RR	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 08:00	From: 08:00
IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: Other	14:00	To: 08:15
Type: FH21BOD1VPS	Serial No: PX4869	No: 1	Component: SHOCK SUB	OD: 165	ID: 64	Length: 3.70m	Funnel Viscosity: 17s/1	63s/1	Elapsed: 7.75
Jets: 14.3 14.3 14.3		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 12.83m	Fluid Loss: 6.0cm3/1	6.0cm3/1	Code: DRILL AHEAD 222mm HOLE FR/ 928- 946m
Depth Out (m): 955		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 12.82m	pH: 9.0	9.5	Details of Operations in Sequence & Remarks
Depth In (m): 910		No: 1	Component: JARS-MECH	OD: 167	ID: 73	Length: 4.96m	Location of Sample: SHAKER	SHAKER	08:15 16:00 7.75
Total Drilled (m): 44		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 64.00m	Depth: 942.0m	942.0m	08:15 16:00 7.75
Hrs Run Today: 10.50		No: 1	Component: X/O	OD: 128	ID: 73	Length: 0.83m	PVT: 40m3	40m3	16:00 16:15 0.25
Cumulative Hrs Run: 39.75									16:15 20:00 3.75
Cutting Structure: TI, TO, MDC, LOC, BRG									
Metres Drilled: From, To, D-R-C, RPM, WOB									
Hole Condition: Kelly Down, Total, Weight of DC, Weight of String									
Reduced Pump Speed: Pump No., Pressure, Strokes/min, Depth									
Deviation Surveys: Time, Depth, Deviation, Direction, Type									
Solids Control: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density									
Mud Materials Added: Product, Amount, Type									
Safety: Safety Topic, MEHL, MACP									

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 3RR	Size: 222	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 20:45	From: 20:00
IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT SUB	OD: 168	ID: 1	Length: 0.89m	Other: Other	21:30	To: 22:30
Type: FH21BOD1VPS	Serial No: PX4869	No: 1	Component: SHOCK SUB	OD: 165	ID: 64	Length: 3.70m	Funnel Viscosity: 60s/1	60s/1	Elapsed: 2.50
Jets: 14.3 14.3 14.3		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 12.83m	Fluid Loss: 5cm3/1	5cm3/1	Code: CONDITION MUD & CIRCULATE
Depth Out (m): 955		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 12.82m	pH: 8.5	8.5	Details of Operations in Sequence & Remarks
Depth In (m): 910		No: 1	Component: JARS-MECH	OD: 167	ID: 73	Length: 4.96m	Location of Sample: Shaker	Shaker	22:30 24:00 1.50
Total Drilled (m): 44		No: 1	Component: DC (6.50 IN)	OD: 163	ID: 60	Length: 64.00m	Depth: 954.77m	954.62m	0 0 0 0 0
Hrs Run Today: 0.00		No: 1	Component: X/O	OD: 128	ID: 73	Length: 0.83m	PVT: 38m3	37.9m3	
Cumulative Hrs Run: 0.00									
Cutting Structure: TI, TO, MDC, LOC, BRG									
Metres Drilled: From, To, D-R-C, RPM, WOB									
Hole Condition: Kelly Down, Total, Weight of DC, Weight of String									
Reduced Pump Speed: Pump No., Pressure, Strokes/min, Depth									
Deviation Surveys: Time, Depth, Deviation, Direction, Type									
Solids Control: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density									
Mud Materials Added: Product, Amount, Type									
Safety: Safety Topic, MEHL, MACP									

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20121006_1A

Vendor Software Version
Pason

Year Month Day
2012 10 06

License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56 N/137:14:46.85W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

DRILLING ASSEMBLY				TOUR 1				DRILLING ASSEMBLY				TOUR 2				DRILLING ASSEMBLY				TOUR 3			
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length				
1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23				
1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89				
1	SHOCK SUB	165.00	64	3.70	1	SHOCK SUB	165.00	64	3.70	1	SHOCK SUB	165.00	64	3.70	1	SHOCK SUB	165.00	64	3.70				
1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83				
1	DC (6.50 IN)	163.00	60.00	12.81	1	DC (6.50 IN)	163.00	60.00	12.81	1	DC (6.50 IN)	163.00	60.00	12.81	1	DC (6.50 IN)	163.00	60.00	12.81				
1	DC (6.50 IN)	163.00	60.00	12.82	1	DC (6.50 IN)	163.00	60.00	12.82	1	DC (6.50 IN)	163.00	60.00	12.82	1	DC (6.50 IN)	163.00	60.00	12.82				
1	JARS-MECH	167	73	4.96	1	JARS-MECH	167	73	4.96	1	JARS-MECH	167	73	4.96	1	JARS-MECH	167	73	4.96				
5	DC (6.50 IN)	163.00	60.00	64.00	5	DC (6.50 IN)	163.00	60.00	64.00	5	DC (6.50 IN)	163.00	60.00	64.00	5	DC (6.50 IN)	163.00	60.00	64.00				
1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83				
1	DC (6.50 IN)	163.00	60.00	12.80	1	DC (6.50 IN)	163.00	60.00	12.80	1	DC (6.50 IN)	163.00	60.00	12.80	1	DC (6.50 IN)	163.00	60.00	12.80				
1	X/O	128.00	73	0.83	1	X/O	128.00	73	0.83	1	X/O	128.00	73	0.83	1	X/O	128.00	73	0.83				
61 Drill Pipe				Stands	782.46	63 Drill Pipe				Stands	807.68	63 Drill Pipe				Stands	807.68						
1 Drill Pipe				Singles	6.84	0 Drill Pipe				Singles	0.00	0 Drill Pipe				Singles	0.00						
Kelly Down					0.00	Kelly Down					8.62	Kelly Down					8.62						
Total					928.00	Total					955.00	Total					955.00						
Weight of DC					20.00	Weight of DC					20.00	Weight of DC					20.00						
Weight of String					31.00	Weight of String					31.00	Weight of String					31.00						

SPECIAL EVENTS

Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	HANDLEING DRILL PIPE IN PIPE TUBES	16:00	946

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121006_1A Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 06



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	01:30	03:15	05:00														
Density	1180kg/m3	1190kg/m3	1180kg/m3														
Funnel Viscosity	45s/l	47s/l	45s/l														
Fluid Loss	5cm3	5cm3	5cm3														
Fluid pH	9	9	9														
Location of Sample	Shaker	Shaker	SHAKER														
Depth	910.53m	917.14m	920m														
PVT	42.5m3	42.2m3	42m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121006_1A Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 06



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR 2 **MUD TYPE** GEL-CHEM **WATER** x **OIL** **OTHER**

Time	08:00	14:00	16:00														
Density	1185kg/m3	1190kg/m3	1290kg/m3														
Funnel Viscosity	47s/l	63s/l	63s/l														
Fluid Loss	6.0cm3	6.0cm3	6.0cm3														
Fluid pH	9.0	9.5	9.0														
Location of Sample	SHAKER	SHAKER	SHAKER														
Depth	0m	942m	945m														
PVT		40m3	40m3														
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121006_1A
 Vendor: Pason
 Software Version: 2012
 Year: 2012
 Month: 10
 Day: 06



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>	
Operator's AFE 1C-O20-D02	Contractor's Job No 1	Spud Date Time 2012/09/19 01:00			
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time			



Pason

TOUR 3 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	20:45	21:00																		
	Density	1240kg/m3	1240kg/m3																	
Funnel Viscosity	60s/l	60s/l																		
Fluid Loss	5cm3	5cm3																		
Fluid pH	8.5	8.5																		
Location of Sample	Shaker	Shaker																		
Depth	954.77m	954.62m																		
PVT	38m3	37.9m3																		
Test 1	Type (Ex: Chlorides)																			
	Value																			
Test 2	Type (ex: Sand%)																			
	Value																			
Test 3	Type (ex: Hard Ca)																			
	Value																			
Test 4	Type (ex: Sulfides)																			
	Value																			

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78
 Operator NORTHERN CROSS YUKON
 Operator's AFE 1C-020-002
 Signature of Operator Representative JUSTIN COBANIN

Tour Sheet Serial Number JKN1_20121007_1A
 Surface Location 66:07:18.56N/137:14:46.88W
 Vendor Software Version Pason
 Year 2012 Month 10 Day 07
 Unique Well Id 300e786610137000
 Well Type VERT
 Spud Date Time 2012/09/19 01:00
 Rig Release Date Time

Contractor NORTHERN CROSS YUKON
 Contractor's Job No 1
 Signature of Contractor's Rig Manager Duncan Dittrick

Rig No 1
 Re-Entry

DAILY CHECKS

1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well Licence & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines

1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Down Saver Checked
 5) Motor Kill Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1			0.25		1.50	4.00	0.25				1.00															7.00
Tour 2						3.50	0.25			0.50		7.25									0.50					12.00
Tour 3											4.00															4.00
Total			0.25		1.50	7.50	0.50			1.50	11.25										0.50					23.00

Kelly Busting 4.91 Or Fuel 8000.00
 Fuel @ 08:00 HOURS
 Time 06:00 Meter 1100.00
 Wind Direction PARTLY CLOUDY
 Road Condition UP TO 19 KM/H
 Weather GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 3RR	No 222	Component 1 BIT	OD 0	ID 0.23m	Mud Type 222	Water 0	Oil 0	Time 00:00	To 01:00
Size 222		1 BIT SUB 168	1	0.89m	Density 1235			01:00	01:30
IADC Code 5 1 7 X		1 SHOCK SUB 165	64	3.70m	Funnel Viscosity 97s/l			01:30	02:15
Manufacturer SMITH		1 DC (6.50 IN) 163	60	12.83m	Fluid Loss 5cm/30			02:15	04:30
Type FH21BOD1VPS		1 DC (6.50 IN) 163	60	12.81m	pH 8.5			04:30	04:45
Serial No PX4869		1 DC (6.50 IN) 163	60	12.82m	Location of Sample Shaker			04:45	05:45
Jets 14.3 14.3 14.3		1 DC (6.50 IN) 163	60	12.83m	Depth 954.48m			05:45	06:00
Depth Out (m) 910		1 DC (6.50 IN) 163	60	12.83m	PVT 37.1m/3			06:00	06:00
Depth In (m) 910		1 DC (6.50 IN) 163	60	12.80m					
Total Drilled (m) 910		1 X/O 128	73	0.83m					
Hrs Run Today 0.00									
Cumulative Hrs Run 16.00									
Entry Date 2012/10/05									

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 3RR	No 222	Component 1 BIT	OD 0	ID 0.23m	Mud Type 222	Water 0	Oil 0	Time 08:00	To 08:15
Size 222		1 BIT SUB 168	1	0.89m	Density 1235			08:15	08:45
IADC Code 5 1 7 X		1 SHOCK SUB 165	64	3.70m	Funnel Viscosity 97s/l			08:45	12:15
Manufacturer SMITH		1 DC (6.50 IN) 163	60	12.83m	Fluid Loss 5cm/30			12:15	12:30
Type FH21BOD1VPS		1 DC (6.50 IN) 163	60	12.81m	pH 8.5			12:30	12:45
Serial No PX4869		1 DC (6.50 IN) 163	60	12.82m	Location of Sample Shaker			12:45	18:15
Jets 14.3 14.3 14.3		1 DC (6.50 IN) 163	60	12.83m	Depth 954.48m			18:15	20:00
Depth Out (m) 955		1 DC (6.50 IN) 163	60	12.83m	PVT 37.1m/3				
Depth In (m) 910		1 DC (6.50 IN) 163	60	12.80m					
Total Drilled (m) 955		1 DC (6.50 IN) 163	60	12.80m					
Hrs Run Today 0.00		1 X/O 128	73	0.83m					
Cumulative Hrs Run 16.00									
Entry Date 2012/10/05									

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number 0	No 0	Component 0	OD 0	ID 0	Mud Type 0	Water 0	Oil 0	Time 20:00	To 23:15
Size 0		0			Density 0			23:15	24:00
IADC Code 0		0			Funnel Viscosity 0				
Manufacturer 0		0			Fluid Loss 0				
Type 0		0			pH 0				
Serial No 0		0			Location of Sample 0				
Jets 0		0			Depth 0				
Depth Out (m) 0		0			PVT 0				
Depth In (m) 0		0							
Total Drilled (m) 0		0							
Hrs Run Today 0.00		0							
Cumulative Hrs Run 0.00		0							
Entry Date 0		0							

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

Tour Sheet Serial No
UNKN1_20121007_1A

Vendor Software Version
Pason

Year Month Day
2012 10 07

License No 1129 Well Name NCY E Chance E-78.

Surface Location
66:07:18.56 N/137:14:46.85W

Prov YT Loc Type LAT-LONG Unique Well Id
300e786610137000

Operator
NORTHERN CROSS YUKON

Contractor
NORTHERN CROSS YUKON

Rig No 1 Well Type VERT Re-Entry

Operator's AFE
1C-O20-D02

Contractor's Job No
1

Spud Date Time
2012/09/19 01:00

Signature of Operator Representative
JUSTIN COBAIN

Signature of Contractor's Rig Manager
Duncan Dittrick

Rig Release Date Time



Pason

DRILLING ASSEMBLY					DRILLING ASSEMBLY					DRILLING ASSEMBLY				
TOUR 1					TOUR					TOUR				
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length
1	BIT	222.00	0.30	0.23										
1	BIT SUB	168.00	0.71	0.89										
1	SHOCK SUB	165.00	.64	3.70										
1	DC (6.50 IN)	163.00	60.00	12.83										
1	DC (6.50 IN)	163.00	60.00	12.81										
1	DC (6.50 IN)	163.00	60.00	12.82										
1	JARS-MECH	167	73	4.96										
5	DC (6.50 IN)	163.00	60.00	64.00										
1	DC (6.50 IN)	163.00	60.00	12.83										
1	DC (6.50 IN)	163.00	60.00	12.80										
1	X/O	128.00	73	0.83										
63	Drill Pipe	Stands		807.68	Drill Pipe	Stands				Drill Pipe	Stands			
0	Drill Pipe	Singles		8.62	Drill Pipe	Singles				Drill Pipe	Singles			
	Kelly Down			0.00	Kelly Down					Kelly Down				
	Total			955.00	Total					Total				
	Weight of DC			20.00	Weight of DC					Weight of DC				
	Weight of String			31.00	Weight of String					Weight of String				

SPECIAL EVENTS				
Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	LOGGING	13:00	955

EQUIPMENT & SERVICES

Tour Sheet Serial No UNKN1_20121007_1A Vendor Software Version Pason Year 2012 Month 10 Day 07

License No	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
1129 NCY E Chance E-78.		66:07:18.56 N / 137:14:46.88 W	YT	LAT-LONG	300e786610137000
Operator NORTHERN CROSS YUKON	Contractor NORTHERN CROSS YUKON	Rig No	Well Type	Re-Entry	
Operator's AFE 1C-O20-D02	Contractor's Job No	1	VERT	<input type="checkbox"/>	
Signature of Operator Representative JUSTIN COBAIN	Signature of Contractor's Rig Manager Duncan Ditrick	1	Spud Date Time	2012/09/19 01:00	
			Rig Release Date Time		



Pason

GENERAL EQUIPMENT & SERVICE

Description	Make	Model	Provided by	Expense of	Rental Company	Serial No	Usage	Quantity	Quantity Used
Remarks:									
Remarks:									
Remarks:									

BOILERS

Boiler No	Make	Model	Provided by	Expense of	Rental Company	Serial No	Hours Today
1	Turjan		OPERATOR	OPERATOR			0
Remarks:							
Remarks:							
Remarks:							

SHALE SHAKERS

Shaker No	Make	Model	Screen 1				Screen 2				Screen 3				Screen 4			
			Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?	Position	Size	Screen Changed?	New?
			1	175	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	175	<input type="checkbox"/>	<input type="checkbox"/>	3	175	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Remarks:					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Remarks:					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Remarks:					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

MUD PUMPS

Pump No	Make	Model	Provided by	Expense of	Rental Company	Serial No	Hours Today	Stroke Length	Rod Size	Pump Style
1	Lewco	MD550	OPERATOR	OPERATOR			4	190mm	152mm	TRIPLEX
Remarks:										
2	Mudder	9	CONTRACTOR	OPERATOR			0	228.6mm	165mm	TRIPLEX
Remarks:										
Remarks:										

BITS

Bit No	Size	IADC Code				Manufacturer	Type	Serial No	Jets								Depth In	Depth Out	Total Drilled	Total Hours Run Today	Cumulative Hours Run	Entry Date	Cutting Structure								Tour							
		1	2	3	4				1	2	3	4	5	6	7	8							TI	TO	MDC	LOC	BRG	Gage	ODC	Reason Pulled		Total Run m/Hr						
3RR	222.00-mm	5	1	7	X	SMITH	FH121B-OD1VPS	PX4869	14.30-mm	14.30-mm	14.30-mm									910.50m		44.50m	0.00	16.00	12/10/05													1
	0.00mm																									2	3	BT	G		E	0.00mm	BU	TD			2	
3RR	222.00-mm	5	1	7	X	SMITH	FH121B-OD1VPS	PX4869	14.30-mm	14.30-mm	14.30-mm									910.50m	955.00m	44.50m	0.00	16.00	12/10/05	2	3	BT	G		E	0.00mm	BU	TD	2.78m/hr		2	
	0.00mm																									2	3	BT	G		E	0.00mm	BU	TD			3	

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN1_20121009_1A
 Vendor Software Version: Pason
 Year: 2012, Month: 10, Day: 09
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: Y.T., Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02
 Signature of Operator Representative: JUSTIN COBAN
 Contractor's Job No: 1
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Rig No: 1, Well Type: VERT
 Spud Date Time: 2012/09/19 01:00
 Rig Release Date Time: []

DAILY CHECKS

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well License & Stick Diagram Posted
- Flare Lines Staked
- BOP Drills Performed
- Visually Inspected BOPs - Flare Lines & Degasser Lines

1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Crown Saver Checked
 5) Motor Kill Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1						1.25	0.25									4.25					0.25					8.00
Tour 2						4.50	0.25									6.75					0.50					12.00
Tour 3						3.00	0.25									0.75										4.00
Total						8.75	0.75									11.75					0.75			2.00		24.00

FUEL @ 08:00 HOURS

Rig	5825.00	Blower	2350.00
Temp	06.00	Temp	-1.00
Current Conditions	LIGHT SNOW		
Wind Direction	N		
Wind Strength	CALM		
Road Condition	GOOD		

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG						
Bit Number	3RR	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
Size	222	1	DRILL STEM ASSEMBLY	163	60	20.23m	Other								00:00	01:00	1.00	23E	W/O ORDERS			
IADC Code	5 1 7 X	1	DC (6.50 IN)	163	60	12.83m	Time								01:00	01:15	0.25		RIG SERVICE			
Manufacturer	SMITH	1	DC (6.50 IN)	163	60	12.81m	Density								01:15	02:15	1.00	23E	W/O ORDERS			
Type	FH21BODIVPS	1	DC (6.50 IN)	163	60	12.82m	Funnel Viscosity								02:15	06:30	4.25	BA	HANDLE TEST TOOLS			
Serial No	PX4869	5	DC (6.50 IN)	163	60	64.00m	Fluid Loss								06:30	07:45	1.25	BA	PH w/ TEST TOOLS			
Jets		1	DC (6.50 IN)	163	60	12.83m	pH								07:45	08:00	0.25	21	HANDOVER SAFETY MEETING			
Depth Out (m)		1	X/O	128	1	0.83m	Location of Sample															
Depth In (m)							Depth															
Total Drilled (m)							PVT															
Hrs Run Today							CIRCULATION															
Cumulative Hrs Run	0.00						Pump#	Type	Liner Size	SPM	Pressure	Hours Run										
Entry Date	2012/10/08						1		152	0	0	0										
							2		165	0	0	0										
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				Boiler										
TI	Gage	Stands	0.00m	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp								
TO	ODC	Singles	0.00m	Torque at Bottom			@	@	@	@	1	12	11.5	395								
MDC	Reason Pulled	Kelly Down	0.00m	Fill on Bottom			@	@	@	@												
LOC	Total Run (m/hr)	Total	149.15m																			
BRG		Weight of DC	30kdaN																			
		Weight of String	30kdaN																			
METRES DRILLED				HOLE CONDITION				REDUCED PUMP SPEED				Boiler										
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp							
					Torque at Bottom			@	@	@	@	1	12	11.5	395							
					Fill on Bottom			@	@	@	@											
								@	@	@	@											
DEVIATION SURVEYS				REDUCED PUMP SPEED				Boiler				SAFETY										
Time	Depth	Deviation	Direction	Type	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic						
					Torque at Bottom			@	@	@	@	1	12	11.5	395	MEHL						
					Fill on Bottom			@	@	@	@					MACP						
								@	@	@	@					DRILL STEM TEST						
DEVIATION SURVEYS				REDUCED PUMP SPEED				Boiler				SAFETY										
Time	Depth	Deviation	Direction	Type	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic						
					Torque at Bottom			@	@	@	@	1	12	11.5	395	MEHL						
					Fill on Bottom			@	@	@	@					MACP						
								@	@	@	@					DRILL STEM TEST						

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG						
Bit Number	3RR	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
Size	222	1	DRILL STEM ASSEMBLY	163	60	20.23m	Other								08:00	08:15	0.25	21	PRE-TOUR SAFETY MEETING WITH ALL INVOLVED			
IADC Code	5 1 7 X	1	DC (6.50 IN)	163	60	12.83m	Time								08:15	11:00	2.75	BA	TRIP IN HOLE WITH DRILL STEM TEST # 1 FLOW CHECK @ 160 & 477m			
Manufacturer	SMITH	1	DC (6.50 IN)	163	60	12.81m	Density								11:00	11:15	0.25	21D	PRE-JOB SAFETY MEETING WITH DELTA - P & CREW			
Type	FH21BODIVPS	1	DC (6.50 IN)	163	60	12.82m	Funnel Viscosity								11:15	18:00	6.75	16	DRILL STEM TEST .FUNCTION FLARE TANK IGNITER . 8LOW TEST LINE WITH AIR .TRY TO INFLATE TOOL WITH ROTARY TABLE . NOT ENOUGH RPM .BREAK OF TEST HEAD			
Serial No	PX4869	5	DC (6.50 IN)	163	60	64.00m	Fluid Loss												INFLATE TOOLS WITH TOP DRIVE SUCCESSFUL .OPEN 10MIN CLOSED 1HR .PULL UP TO 905.897 & 894m FAILED			
Jets		1	DC (6.50 IN)	163	60	12.83m	pH								18:00	18:15	0.25	7	RIG SERVICE FUNCTION PIPE RAMS CLOSED 3/SEC OPENED 3/SEC			
Depth Out (m)		1	X/O	128	1	0.83m	Location of Sample								18:15	20:00	1.75	BB	TRIP OUT OF HOLE TO 437m TO TRY # 3 TEST WITH FLOW CHECKS @ 891m & 477m			
Depth In (m)							Depth															
Total Drilled (m)							PVT															
Hrs Run Today							CIRCULATION															
Cumulative Hrs Run							Pump#	Type	Liner Size	SPM	Pressure	Hours Run										
Entry Date							1		152	0	0	0										
							2		165	0	0	0										
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				Boiler										
TI	Gage	Stands	782.46m	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp								
TO	ODC	Singles	0.00m	Torque at Bottom			@	@	@	@	1	12	11.5	395								
MDC	Reason Pulled	Kelly Down	0.00m	Fill on Bottom			@	@	@	@												
LOC	Total Run (m/hr)	Total	931.61m																			
BRG		Weight of DC	20kdaN																			
		Weight of String	30kdaN																			
METRES DRILLED				HOLE CONDITION				REDUCED PUMP SPEED				Boiler										
From	To	D-R-C	RPM	WOB	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic						
					Torque at Bottom			@	@	@	@	1	12	11.5	395	MEHL						
					Fill on Bottom			@	@	@	@					MACP						
								@	@	@	@					TRIPPING						
DEVIATION SURVEYS				REDUCED PUMP SPEED				Boiler				SAFETY										
Time	Depth	Deviation	Direction	Type	Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp	Safety Topic						
					Torque at Bottom			@	@	@	@	1	12	11.5	395	MEHL						
					Fill on Bottom			@	@	@	@					MACP						
								@	@	@	@					DRILL STEM TEST INFLATE PACKERS @ 487.5m FAILED						

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG						
Bit Number	3RR	No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
Size	222	1	DRILL STEM ASSEMBLY	163	60	20.23m	Other								20:00	20:45	0.75	16	DRILL STEM TEST INFLATE PACKERS @ 487.5m FAILED			
IADC Code	5 1 7 X	1	DC (6.50 IN)	163	60	12.83m	Time								20:45	21:00	0.25	7	RIG SERVICE			
Manufacturer	SMITH	1	DC (6.50 IN)	163	60	12.81m	Density								21:00	24:00	3.00	BB	TRIP OUT OF HOLE FROM 487m TO 32m			
Type	FH21BODIVPS	1	DC (6.50 IN)	163	60	12.82m	Funnel Viscosity															
Serial No	PX4869	5	DC (6.50 IN)	163	60	64.00m	Fluid Loss															
Jets		1	DC (6.50 IN)	163	60	12.83m	pH															
Depth Out (m)		1	X/O	128	1	0.83m	Location of Sample															
Depth In (m)							Depth															
Total Drilled (m)							PVT															
Hrs Run Today							CIRCULATION															
Cumulative Hrs Run							Pump#	Type	Liner Size	SPM	Pressure	Hours Run										
Entry Date							1		152	0	0	0										
							2		165	0	0	0										
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				Boiler										
TI	Gage	Stands		Hole Drag	Up	Down	Pump No.	Pressure	Strokes/min	Depth	Boiler #	Hours Run	pH	Stack Temp								

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

License No 1129		Well Name NCY E Chance E-78.		Surface Location 66:07:18.56 N/137:14:46.85W		Vendor Software Version Pason		Year 2012	Month 10	Day 09	
Operator NORTHERN CROSS YUKON				Contractor NORTHERN CROSS YUKON				Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000	
Operator's AFE 1C-O20-D02				Contractor's Job No 1				Rig No 1	Well Type VERT		Re-Entry <input type="checkbox"/>
Signature of Operator Representative JUSTIN COBAIN				Signature of Contractor's Rig Manager Duncan Dittrick				Spud Date Time 2012/09/19 01:00		Rig Release Date Time	



Pason

DRILLING ASSEMBLY					DRILLING ASSEMBLY					DRILLING ASSEMBLY				
TOUR 1					TOUR 2					TOUR				
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length
1	DRILL STEM ASSEMBL	163.00	60.00	20.23	1	DRILL STEM ASSEMBL	163.00	60.00	20.23					
1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83					
1	DC (6.50 IN)	163.00	60.00	12.81	1	DC (6.50 IN)	163.00	60.00	12.81					
1	DC (6.50 IN)	163.00	60.00	12.82	1	DC (6.50 IN)	163.00	60.00	12.82					
5	DC (6.50 IN)	163.00	60.00	64.00	5	DC (6.50 IN)	163.00	60.00	64.00					
1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83					
1	DC (6.50 IN)	163.00	60.00	12.80	1	DC (6.50 IN)	163.00	60.00	12.80					
1	X/O	128.00	0.73	0.83	1	X/O	128.00	0.73	0.83					
0	Drill Pipe	Stands		0.00	61	Drill Pipe	Stands		782.46		Drill Pipe	Stands		
0	Drill Pipe	Singles		0.00	0	Drill Pipe	Singles		0.00		Drill Pipe	Singles		
Kelly Down				0.00	Kelly Down				0.00	Kelly Down				
Total				149.15	Total				931.61	Total				
Weight of DC					Weight of DC				20.00	Weight of DC				
Weight of String					Weight of String				30.00	Weight of String				

SPECIAL EVENTS				
Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	DRILL STEM TEST	12:00	955

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20121010_1A
 Vendor Software Version: Pason
 Year: 2012 Month: 10 Day: 10
 License No: 1129 Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT Loc Type: LAT-LONG Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON Contractor: NORTHERN CROSS YUKON
 Operator's AFE: 1C-O20-D02 Contractor's Job No: 1
 Signature of Operator Representative: JUSTIN COBAN Signature of Contractor's Rig Manager: Duncan Dittrick
 Rig No: 1 Well Type: VERT
 Spud Date Time: 2012/09/19 01:00
 Rig Release Date Time:

DAILY CHECKS
 1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well License & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 8) BOP Drills Performed
 9) Rig Site Health & Safety Meeting (one/crew/month)
 10) CAODC Rig Safety Inspection Checklist (one/rig/month)
 11) Mast Inspection before Raising or Lowering
 12) Down Saver Checked
 13) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURLS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1							2.00	0.25								5.75										8.00
Tour 2							2.00	0.25		0.75						2.75					0.75					12.00
Tour 3							3.00									1.00										4.00
Total							2.00	10.50	0.50	0.75						9.50					0.75					24.00

Kelly Busting: 4.91 On Fuel: 2500.00
 FUEL @ 08:00 HOURS
 Rig: 4950.00 Meter: 950.00
 Current Conditions: CLEAR Temp: -10.00
 Wind Direction: NE Wind Strength: CALM
 Road Condition: GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 3RRR	Size: 222	IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 13.00	Deviation: 0	Direction: 0	From: 00:00	To: 00:15	Elapsed: 0.25	Code: 21	Details: RIG SERVICE FUNCTION BLIND RAMS WHILE OUT OF HOLE T/C 1 SECOND		
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM				Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING				Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING				Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING							

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 3RRR	Size: 222	IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 13.00	Deviation: 0	Direction: 0	From: 08:00	To: 08:15	Elapsed: 0.25	Code: 21	Details: PRE-TOUR SAFETY MEETING WITH ALL INVOLVED		
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING				Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING				Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING				Remarks: VISUALLY INSPECT BRAKE SYSTEM , SET & FUNCTION HIGH & LOW LIMITS CHECK MANIFOLD ALIGNMENT ,FUNCTION FLARE RTANK IGNITER STABBING VALVE LOCATED ON RIG FLOOR IN OPEN POSITION WHILE TRIPPING							

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG			
Bit Number: 3RRR	Size: 222	IADC Code: 5 1 7 X	Manufacturer: SMITH	No: 1	Component: BIT	OD: 222	ID: 0	Length: 0.23m	Mud Type: Water	Time: 13.00	Deviation: 0	Direction: 0	From: 20:00	To: 23:00	Elapsed: 3.00	Code: 8A	Details: TRIP IN HOLE FROM 0m TO 891m FLOW CHECK @ 472m		
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY							
Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM				Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM				Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM				Remarks: SET HIGH AND LOW POINTS VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM							

DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA

License No 1129		Well Name NCY E Chance E-78.		Surface Location 66:07:18.56 N/137:14:46.85W		Prov YT		Loc Type LAT-LONG		Unique Well Id 300e786610137000		Year 2012		Month 10		Day 10	
Operator NORTHERN CROSS YUKON				Contractor NORTHERN CROSS YUKON				Rig No 1		Well Type VERT		Re-Entry <input type="checkbox"/>					
Operator's AFE 1C-O20-D02				Contractor's Job No 1						Spud Date Time 2012/09/19 01:00							
Signature of Operator Representative JUSTIN COBAIN				Signature of Contractor's Rig Manager Duncan Dittrick						Rig Release Date Time							



Pason

DRILLING ASSEMBLY					DRILLING ASSEMBLY					DRILLING ASSEMBLY				
TOUR 1					TOUR 2					TOUR 3				
No	Component	OD	ID	Length	No	Component	OD	ID	Length	No	Component	OD	ID	Length
1	BIT	222.00	0.00	0.23	1	BIT	222.00	0.00	0.23	1	DRILL STEM ASSEMBL	163.00	60.00	20.23
1	BIT SUB	168.00	0.71	0.89	1	BIT SUB	168.00	0.71	0.89	1	DC (6.50 IN)	163.00	60.00	12.83
1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.81
1	DC (6.50 IN)	163.00	60.00	12.81	1	DC (6.50 IN)	163.00	60.00	12.81	1	DC (6.50 IN)	163.00	60.00	12.82
1	DC (6.50 IN)	163.00	60.00	12.82	1	DC (6.50 IN)	163.00	60.00	12.82	5	DC (6.50 IN)	163.00	60.00	64.00
1	JARS-HYD/MECH	163.00	60.00	4.96	1	JARS-HYD/MECH	163.00	60.00	4.96	1	DC (6.50 IN)	163.00	60.00	12.83
5	DC (6.50 IN)	163.00	60.00	64.00	5	DC (6.50 IN)	163.00	60.00	64.00	1	DC (6.50 IN)	163.00	60.00	12.80
1	DC (6.50 IN)	163.00	60.00	12.83	1	DC (6.50 IN)	163.00	60.00	12.83	1	X/O	128.00	0.73	0.83
1	DC (6.50 IN)	163.00	60.00	12.80	1	DC (6.50 IN)	163.00	60.00	12.80					
1	X/O	128.00	0.73	0.83	1	X/O	128.00	0.73	0.83					
63	Drill Pipe	Stands		807.68	63	Drill Pipe	Stands		807.68	59	Drill Pipe	Stands		756.12
0	Drill Pipe	Singles		0.00	0	Drill Pipe	Singles		0.00	0	Drill Pipe	Singles		0.00
Kelly Down		12.32			Kelly Down		12.32			Kelly Down		0.00		
Total		955.00			Total		955.00			Total		905.27		
Weight of DC					Weight of DC					Weight of DC				
Weight of String					Weight of String					Weight of String		30.00		

SPECIAL EVENTS				
Tour No.	Event No.	Description	Time	Depth
2	JSA REVIEW	SLIP & CUT DRILL LINE	08:00	955

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JNKN1_20121011_1B
 Vendor Software Version: Pason
 Year: 2012, Month: 10, Day: 11
 License No: 1129, Well Name: NCF E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1, Well Type: VERT
 Operator's AFE: 1C-O20-D02
 Contractor's Job No: 1
 Signature of Operator Representative: JUSTIN COBAN
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Re-Entry:

DAILY CHECKS

1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well License & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Crown Saver Checked
 5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL
Tour 1						2.00										5.00									1.00	8.00
Tour 2						7.00	0.25									4.50					0.25					12.00
Tour 3						4.00																			4.00	
Total						13.00	0.25									9.50					0.25				1.00	24.00

Kelly Busting: 4.91, Op Fuel: 2500.00
 Fuel @ 08:00 HOURS: 4950.00, Meter: 950.00
 Current Conditions: CLEAR, Wind Direction: NE, Wind Strength: CALM, Fog Condition: GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 3RRR	No: 222	Component: DRILL STEM ASSEMBLY	OD: 163	ID: 60	Length: 20.23m	Mud Type: Water	Time: 00:00	From: 00:00	To: 02:15
Size: 5	IADC Code: 5	1DC (6.50 IN)	163	60	12.83m	Other: Oil	Density: 1.00	To: 04:15	Elapsed: 2:00
Manufacturer: SMITH	Type: FH21BODIVPS	1DC (6.50 IN)	163	60	12.81m	Funnel Viscosity: 100	Direction: 0	To: 05:15	Code: 2.00BB
Serial No: PX4869	Jets: 1	1DC (6.50 IN)	163	60	12.82m	Fluid Loss: 0	Type: 0	Details of Operations in Sequence & Remarks	HEAD UP DST INFLATE PACKERS & TEST INTERVAL 894.5m TO 904.5m OPEN 10 MIN
Depth Out (m): 0.00	Depth In (m): 0.00	1DC (6.50 IN)	163	60	64.00m	pH: 10	Equipment Name: 0	02:15	CLOSED 1 HR OPEN 30 MIN CLOSED 30 MIN
Total Drilled (m): 0.00	Hrs Run Today: 0.00	1DC (6.50 IN)	163	60	12.83m	Location of Sample: 0	Hours Run: 0	04:15	TRIP OUT OF HOLE FROM 85m TO 494m FOR DRILL STEM TEST. FLOW CHECK @ 889m
Cumulative Hrs Run: 0.00	Entry Date: 2012/10/08	1DC (6.50 IN)	163	60	12.80m	Depth: 0	Intake Density: 0	05:15	TAW OUT TEST LINE
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
TI: 0	Gage: 0	Hole Drag: 0	Up: 0	Down: 0	Pump No: 1	Pressure: 152	Strokes/min: 0	Depth: 0	Safety Topic: DST
MDC: 0	Reason Pulled: 0	Torque at Bottom: 0	Fill on Bottom: 0		2	165	0	0	MEHL: 35.00kdaN
LOC: 0	Total Run (m/hr): 0	Weight of DC: 20kdaN	Weight of String: 30kdaN						MACP: 5705kPa
BRG: 0									

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 3RRR	No: 222	Component: DRILL STEM ASSEMBLY	OD: 163	ID: 60	Length: 20.23m	Mud Type: Water	Time: 08:00	From: 08:00	To: 08:15
Size: 5	IADC Code: 5	1DC (6.50 IN)	163	60	12.83m	Other: Oil	Density: 1.00	To: 08:15	Elapsed: 0:15
Manufacturer: SMITH	Type: FH21BODIVPS	1DC (6.50 IN)	163	60	12.81m	Funnel Viscosity: 100	Direction: 0	To: 11:00	Code: 2.75BB
Serial No: PX4869	Jets: 1	1DC (6.50 IN)	163	60	12.82m	Fluid Loss: 0	Type: 0	Details of Operations in Sequence & Remarks	PRE-TOUR SAFETY MEETING
Depth Out (m): 39.75	Depth In (m): 0.00	1DC (6.50 IN)	163	60	6.00m	pH: 10	Equipment Name: 0	08:15	BLOW KELLY & TRIP OUT OF HOLE TO CHANGE TEST PACKER. FLOW CHECK @ 993.160m & OOH HOLE NOT TAKING PROPER VOLUME ON HOLE FILL
Total Drilled (m): 39.75	Hrs Run Today: 39.75	1DC (6.50 IN)	163	60	12.83m	Location of Sample: 0	Hours Run: 0	11:00	TRIP IN HOLE TO SHOE FILLING HOLE CONTINUOUSLY
Cumulative Hrs Run: 39.75	Entry Date: 2012/10/08	1DC (6.50 IN)	163	60	12.80m	Depth: 0	Intake Density: 0	12:00	TRIP OUT OF HOLE WITH FLOW CH @ 160m HOLE FILL CALC= 3.97m3 MEAS =4.5m3
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
TI: 0	Gage: 0	Hole Drag: 0	Up: 0	Down: 0	Pump No: 1	Pressure: 152	Strokes/min: 0	Depth: 0	Safety Topic: TEAM WORK
MDC: 0	Reason Pulled: 0	Torque at Bottom: 0	Fill on Bottom: 0		2	165	0	0	MEHL: 31.00kdaN
LOC: 0	Total Run (m/hr): 0	Weight of DC: 20kdaN	Weight of String: 30kdaN						MACP: 5705kPa
BRG: 0									

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY		MUD RECORD		DEVIATION SURVEYS		TIME LOG	
Bit Number: 3RRR	No: 222	Component: BIT	OD: 163	ID: 60	Length: 0.23m	Mud Type: Water	Time: 20:00	From: 20:00	To: 20:00
Size: 5	IADC Code: 5	1BIT SUB	163	60	0.89m	Other: Oil	Density: 1.00	To: 24:00	Elapsed: 4:00
Manufacturer: SMITH	Type: FH21BODIVPS	1DC (6.50 IN)	163	60	12.83m	Funnel Viscosity: 100	Direction: 0	Details of Operations in Sequence & Remarks	TRIP IN HOLE FROM 70m TO 379m REAM BRIDGE FROM 379m TO 385m. WASH FROM 385m TO 504m
Serial No: PX4869	Jets: 1	1DC (6.50 IN)	163	60	12.81m	Fluid Loss: 0	Type: 0	Remarks: SET HIGH AND LOW POINTS	VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM
Depth Out (m): 0.00	Depth In (m): 0.00	1DC (6.50 IN)	163	60	12.82m	pH: 10	Equipment Name: 0		
Total Drilled (m): 0.00	Hrs Run Today: 0.00	1DC (6.50 IN)	163	60	4.96m	Location of Sample: 0	Hours Run: 0		
Cumulative Hrs Run: 0.00	Entry Date: 2012/10/08	1DC (6.50 IN)	163	60	64.00m	Depth: 0	Intake Density: 0		
CUTTING STRUCTURE		HOLE CONDITION		REDUCED PUMP SPEED		MUD MATERIALS ADDED		SAFETY	
TI: 0	Gage: 0	Hole Drag: 0	Up: 0	Down: 0	Pump No: 1	Pressure: 152	Strokes/min: 125	Depth: 4500	Safety Topic: STEAM USE
MDC: 0	Reason Pulled: 0	Torque at Bottom: 0	Fill on Bottom: 0		2	165	0	4500	MEHL: 31.00kdaN
LOC: 0	Total Run (m/hr): 0	Weight of DC: 20kdaN	Weight of String: 31kdaN						MACP: 5705kPa
BRG: 0									

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN1_20121012_1A
 Vendor Software Version: Pason
 Year: 2012, Month: 10, Day: 12
 License No: 1129, Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1, Well Type: VERT
 Operator's AFE: 1C-020-D02
 Contractor's Job No: 1
 Signature of Operator Representative: JUSTIN COBAN
 Signature of Contractor's Rig Manager: Duncan Dittrick
 Re-Entry:

DAILY CHECKS

1) Daily Walk Around Inspection	JC	DD
2) Detailed Inspection - Weekly (Using Check List)	JC	DD
3) H2S Signs Posted if Required	JC	DD
4) Well License & Stick Diagram Posted	JC	DD
5) Flare Lines Staked	JC	DD
6) BOP Drills Performed	JC	DD
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	JC	DD
1) Rig Site Health & Safety Meeting (one/crew/month)		
2) CAODC Rig Safety Inspection Checklist (one/rig/month)		
3) Mast Inspection before Raising or Lowering		
4) Down Saver Checked		
5) Motor Kill Checked		



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1					2.00	5.50	0.25														0.25					8.00
Tour 2						4.75	0.25									6.25					0.75					12.00
Tour 3						3.25									0.75											4.00
Total					2.00	13.50	0.50								7.00						1.00					24.00

FUEL @ 08:00 HOURS

Rig	4950.00	Water	950.00
Time	06:00	Temp	-10.00
Current Conditions	CLEAR	Wind Direction	CALM
Wind Strength		Wind Condition	GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number: 3RRR	No: 1	Component: BIT	OD: 222	ID: 60	Length: 0.23m	Mud Type: Other	Water: <input checked="" type="checkbox"/>	Oil: <input type="checkbox"/>	Time: 00:15	04:15	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
Size: 222	1 BIT SUB	163	60	0.89m	Time: 00:15	04:15	Density: 1260	1260	00:00	00:30	00:30	04:00	3.50	8A	CIRCULATE BOTOMS UP @ 504m	00:00	00:30	3.50	8A	WASH/REAM IN HOLE FROM 1504m TO 660m RUN IN FROM 660m TO 942m WASH/REAM FROM 942m TO 952m			
IADC Code: 5 1 7 X	1 DC (6.50 IN)	163	60	12.83m	Funnel Viscosity: 65s/1	85s/1	Fluid Loss: 8.5	8.5	04:00	05:30	1.50				CONDITION MUD AND CIRCULATE HOLE CLEAN @ 952m	05:30	05:45	0.25	7B	RIG SERVICE FUNCTION MANULAR			
Manufacturer: SMITH	1 DC (6.50 IN)	163	60	12.81m	pH: 8.5	8.5	Location of Sample: Shaker	Shaker	05:45	07:07	1.25	7B			TRIP OUT OF HOLE FROM 152m TO 749m FLOW CHECK	07:00	07:15	0.25	21	SAFE Y MEETING			
Type: FH21BODIVPS	1 DC (6.50 IN)	163	60	12.82m	Location of Sample: PVT				07:15	08:00	0.75	7B			TRIP OUT OF HOLE	08:00	08:00	0.75	7B				
Serial No: PX4869	1 DC (6.50 IN)	163	60	12.82m					SOLIDS CONTROL														
Jets:	1 DC (6.50 IN)	163	60	4.96m					Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density										
Depth Out (m):	5 DC (6.50 IN)	163	60	64.00m																			
Depth In (m):	1 DC (6.50 IN)	163	60	12.83m					MUD MATERIALS ADDED														
Total Drilled (m):	1 DC (6.50 IN)	163	60	12.80m					Product	Amount	Type												
Hrs Run Today:	1 X/O	128	1	0.83m					Barite	0	SX												
Cumulative Hrs Run:									REMARKS:														
Entry Date: 2012/10/08									Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/>				SET HIGH AND LOW POINTS										
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY											
TI: Gage	ODC	Kelly Down	0.00m	Torque at Bottom	0.00Nm	Pump No. 1	Pressure @	Strokes/min @	Depth @	Boiler #	Hours Run @	pH @	Stack Temp @	Safety Topic									
TO: ODC	Reason Pulled	Total	955.00m	Fill on Bottom	2.00m	2	165	74	595	1	12	11.5	229	MEHL MACP									
MDC: Total Run (m/hr)	Weight of DC	Weight of String	31kdaN											Safety Topic									
LOC: Total Run (m/hr)														Safety Topic									
BRG: Total Run (m/hr)														Safety Topic									

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number: 3RRR	No: 1	Component: DRILL STEM ASSEMBLY	OD: 163	ID: 60	Length: 20.23m	Mud Type: Other	Water: <input checked="" type="checkbox"/>	Oil: <input type="checkbox"/>	Time: 08:15	10:45	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
Size: 222	1 DC (6.50 IN)	163	60	12.83m	Time: 08:15	10:45	Density: 2.50	2.50	08:00	08:15	0.25	21			PRE-TOUR SAFETY MEETING WITH ALL INVOLVED	08:00	08:15	0.25	21				
IADC Code: 5 1 7 X	1 DC (6.50 IN)	163	60	12.81m	Funnel Viscosity: 65s/1	85s/1	Fluid Loss: 8.5	8.5	08:15	10:45	2.50	7B			CONTINUE TRIP OUT OF HOLE WITH FLOW CH @ 477. 160m & OOH	10:45	11:00	0.25	1D	PRE-JOB SAFETY MEETING WITH DELTA -P & CREW			
Manufacturer: SMITH	1 DC (6.50 IN)	163	60	12.81m	pH: 8.5	8.5	Location of Sample: Shaker	Shaker	11:00	13:30	2.50	7B			PICK UP & MAKE UP DST TOOLS	11:00	13:30	2.50	7B				
Type: FH21BODIVPS	1 DC (6.50 IN)	163	60	12.82m	Location of Sample: PVT				13:30	14:30	1.00	7A			TRIP IN HOLE WITH TEST TOOL FLOW CHECK @ 165m	13:30	14:30	1.00	7A				
Serial No: PX4869	1 DC (6.50 IN)	163	60	12.80m					14:30	14:45	0.25	21A			DRILLS/BOP, ETC. WSI 3/MIN ACCUMULATOR 3 FUNCTION TEST	14:30	14:45	0.25	21A				
Jets:	1 DC (6.50 IN)	163	60	4.96m					14:45	15:00	0.25	7			RIG SERVICE	14:45	15:00	0.25	7				
Depth Out (m):	1 DC (6.50 IN)	163	60	12.80m					15:00	16:15	1.25	7A			TRIP IN HOLE TO DST # 3	15:00	16:15	1.25	7A				
Depth In (m):	1 X/O	128	1	0.83m					16:15	20:00	3.75	7B			DRILL STEM TEST OPENED TOOL 10/MIN CLOSED 45/MIN , OPEN FOR 30/MIN	16:15	20:00	3.75	7B				
Total Drilled (m):									SOLIDS CONTROL														
Hrs Run Today:									Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density										
Cumulative Hrs Run:																							
Entry Date: 2012/10/08									MUD MATERIALS ADDED														
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY											
TI: Gage	ODC	Kelly Down	0.00m	Torque at Bottom	0.00Nm	Pump No. 1	Pressure @	Strokes/min @	Depth @	Boiler #	Hours Run @	pH @	Stack Temp @	Safety Topic									
TO: ODC	Reason Pulled	Total	489.00m	Fill on Bottom	2.00m	2	165	74	595	1	12	11.5	230	MEHL MACP									
MDC: Total Run (m/hr)	Weight of DC	Weight of String	27kdaN											Safety Topic									
LOC: Total Run (m/hr)														Safety Topic									
BRG: Total Run (m/hr)														Safety Topic									

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS				DRILLING ASSEMBLY				MUD RECORD				DEVIATION SURVEYS				TIME LOG							
Bit Number: 3RRR	No: 1	Component: DRILL PIPE	OD: 163	ID: 60	Length: 333.22m	Mud Type: Other	Water: <input checked="" type="checkbox"/>	Oil: <input type="checkbox"/>	Time: 20:00	20:45	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks			
Size: 222	1 DC (6.50 IN)	163	60	12.83m	Time: 20:00	20:45	Density: 0.75	0.75	20:00	20:45	0.75	7B			DRILL STEM TEST DRILL STEM TEST OPENED TOOL 10/MIN CLOSED 45/MIN , REOPEN FOR 30/MIN CLOSE FOR 60/MIN OPEN 17/MIN CLOSE 12/MIN DEFLATE PACKERS RIG OUT MANIFOLD	20:00	20:45	0.75	7B				
IADC Code: 5 1 7 X	1 DC (6.50 IN)	163	60	12.81m	Funnel Viscosity: 65s/1	85s/1	Fluid Loss: 8.5	8.5	20:45	24:00	3.25	7B			TRIP OUT OF HOLE FROM 487m TO 54m FLUID AT TOP OF DCS 128M ABOVE TOOL CATCH SAMPLES	20:45	24:00	3.25	7B				
Manufacturer: SMITH	1 DC (6.50 IN)	163	60	12.81m	pH: 8.5	8.5	Location of Sample: Shaker	Shaker	SOLIDS CONTROL														
Type: FH21BODIVPS	1 DC (6.50 IN)	163	60	12.82m	Location of Sample: PVT				Equipment Name	Hours Run	Intake Density	Over Flow Density	Under Flow Density										
Serial No: PX4869	1 DC (6.50 IN)	163	60	12.80m																			
Jets:	1 DC (6.50 IN)	163	60	4.96m					MUD MATERIALS ADDED														
Depth Out (m):	1 DC (6.50 IN)	163	60	12.80m					Product	Amount	Type												
Depth In (m):	1 X/O	128	1	0.83m					REMARKS:														
Total Drilled (m):									Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/>				SET HIGH AND LOW POINTS										
Hrs Run Today:									REDUCED PUMP SPEED														
Cumulative Hrs Run:									Pump No. 1	Pressure @	Strokes/min @	Depth @	Boiler #	Hours Run @	pH @	Stack Temp @	Safety Topic						
Entry Date: 2012/10/08									2	165	74	595	1	4	11	350	MEHL MACP						
CUTTING STRUCTURE				HOLE CONDITION				REDUCED PUMP SPEED				SAFETY											
TI: Gage	ODC	Kelly Down	0.00m	Torque at Bottom	0.00Nm	Pump No. 1	Pressure @	Strokes/min @	Depth @	Boiler #	Hours Run @	pH @	Stack Temp @	Safety Topic									
TO: ODC	Reason Pulled	Total	489.00m	Fill on Bottom	2.00m	2	165	74	595	1	4	11	350	Safety Topic									
MDC: Total Run (m/hr)	Weight of DC	Weight of String	27kdaN											Safety Topic									
LOC: Total Run (m/hr)														Safety Topic									
BRG: Total Run (m/hr)														Safety Topic									

MUD SAMPLE - ADDITIONAL DATA

Tour Sheet Serial No: UNKN1_20121012_1A Vendor: Pason Software Version: 2012 Year: 2012 Month: 10 Day: 12



License No 1129	Well Name NCY E Chance E-78.	Surface Location 66:07:18.56N 137:14:46.88W	Prov YT	Loc Type LAT-LONG	Unique Well Id 300e786610137000
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON	Rig No 1	Well Type VERT	Re-Entry <input type="checkbox"/>
Operator's AFE 1C-O20-D02		Contractor's Job No 1	Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAIN		Signature of Contractor's Rig Manager Duncan Dittrick	Rig Release Date Time		



Pason

TOUR 1 **MUD TYPE** Gel-Polymer **WATER** x **OIL** **OTHER**

Time	00:15	04:15	05:00														
Density	1260kg/m3	1260kg/m3	1250kg/m3														
Funnel Viscosity	65s/l	85s/l	70s/l														
Fluid Loss																	
Fluid pH	8.5	8.5	8.5														
Location of Sample	Shaker	Shaker	Shaker														
Depth																	
PVT																	
Test 1	Type (Ex: Chlorides)																
	Value																
Test 2	Type (ex: Sand%)																
	Value																
Test 3	Type (ex: Hard Ca)																
	Value																
Test 4	Type (ex: Sulfides)																
	Value																

MUD SAMPLE REMARKS

FRONT PAGE SUMMARY

License No 1129 Well Name NCY E Chance E-78. Tour Sheet Number JKN1_20121013_1A Vendor Software Version Pason Year 2012 Month 10 Day 13

DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Using Check List) 3) H2S Signs Posted if Required 4) Well License & Stick Diagram Posted 5) Flare Lines Staked 6) BOP Drills Performed 7) Visually Inspected BOPs - Flare Lines & Degasser Lines



Table with 25 columns (CODE 1-25) and 10 rows (TOUR 1-3, Total). Columns include Rig Up, Drill Actual, Reaming, Coring, Concl Mud & Circ, Trips, Rig Service, Repair Rig, Cut Off Drill Line, Dev Survey, Wireline Logs, Run Csg & Cement, Wait On Cement, Nipple Up BOP, Test BOP, Drillstem Test, Plug Back, Squeeze Cement, Fishing, Dir Work, Safety Meeting, Tear Down, Waiting On, Rig Watch, Other, TOTAL.

TOUR 1 SIGNATURE OF DRILLER Brad Grant START TIME 00:00 END TIME 08:00

TOUR 1 Data Form: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 2 SIGNATURE OF DRILLER James Mackinnon START TIME 08:00 END TIME 20:00

TOUR 2 Data Form: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

TOUR 3 SIGNATURE OF DRILLER Brad Grant START TIME 20:00 END TIME 24:00

TOUR 3 Data Form: BITS, DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, CUTTING STRUCTURE, METRES DRILLED, HOLE CONDITION, REDUCED PUMP SPEED, SOLIDS CONTROL, MUD MATERIALS ADDED, SAFETY.

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN1_20121014_1A
 Vendor Software Version: Pason
 Year: 2012 Month: 10 Day: 14
 License No: 1129 Well Name: NCY E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT Loc Type: LAT-LONG Unique Well ID: 300e786610137000
 Operator: NORTHERN CROSS YUKON Contractor: NORTHERN CROSS YUKON Rig No: 1 Well Type: VERT
 Operator's AFE: 1C-O20-D02 Contractor's Job No: 1 Spud Date Time: 2012/09/19 01:00
 Signature of Operator Representative: JUSTIN COBAN Signature of Contractor's Rig Manager: Duncan Dittrick Rig Release Date Time:

DAILY CHECKS
 1) Daily Walk Around Inspection
 2) Detailed Inspection - Weekly (Using Check List)
 3) H2S Signs Posted if Required
 4) Well License & Stick Diagram Posted
 5) Flare Lines Staked
 6) BOP Drills Performed
 7) Visually Inspected BOPs - Flare Lines & Degasser Lines
 1) Rig Site Health & Safety Meeting (one/crew/month)
 2) CAODC Rig Safety Inspection Checklist (one/rig/month)
 3) Mast Inspection before Raising or Lowering
 4) Down Saver Checked
 5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	FUEL @ 08:00 HOURS
Tour 1							2.75					4.00									1.25					8.00
Tour 2					4.50							7.00									0.50					12.00
Tour 3													4.00													4.00
Total					4.50		2.75					11.00	4.00								1.75					24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG																					
Bit Number: 3RRR	Size: 222	No: 5	Component: 1	OD: 7	ID: X	Mud Type: Water	Time: 00:00	Time	Depth	Deviation	Direction	Type	From: 00:00	To: 02:45	Elapsed: 2.75	Code: 8B	Details of Operations in Sequence & Remarks																
IADC Code: 5	Manufacturer: SMITH	Drill Pipe: Kelly Down	Stands: Total	Drill Pipe: Singles	Weight of DC	Other: Oil	Density: 1.00						02:45	04:00	1.25	21A	TRIP OUT OF HOLE FROM 315m TO 0m. F/T BLIND RAMS(3sec/close)OOH																
Type: FH21BODIVPS	Serial No: PX4869	Weight of String					Funnel Viscosity: 11.0						04:00	05:00	1.00	21	RIG UP TO RUN CASING. ELEVATOR CERTIFICATION IN NOTES.																
Depth Out (m):	Depth In (m):	Total Run (m/hr):					Fluid Loss: pH						05:00	07:00	2.00	12	SAFETY MEETING PRIOR TO PICKING UP CASING																
Total Drilled (m):	Hrs Run Today:	Cumulative Hrs Run:					Location of Sample: SHAKER						07:00	07:15	0.25	21	RUN 177.8mm CASING																
Entry Date: 2012/10/08							Depth: 955m						07:15	08:00	0.75	12	SAFETY MEETING w/ DAY SHIFT																
							PVT										12	RUN 177.8 CASING															

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG																					
Bit Number:	Size:	No:	Component:	OD:	ID:	Mud Type: Water	Time: 08:00	Time	Depth	Deviation	Direction	Type	From: 08:00	To: 08:15	Elapsed: 0.25	Code: 21	Details of Operations in Sequence & Remarks																
IADC Code:	Manufacturer:	Drill Pipe: Kelly Down	Stands: Total	Drill Pipe: Singles	Weight of DC	Other: Oil	Density: 1.00						08:00	08:15	0.25	21	PRE-TOUR SAFETY MEETING																
Type:	Serial No:	Weight of String					Funnel Viscosity: 11.0						08:15	11:00	2.75	12	Rig to and run 70x joints of 177.8mm x 43.16kg/m L-80 LT&C production casing with float shoe, float collar, and 30x semi-rigid centralizers with 3x stop collars. Total length = 956.64m. Tag bottom at 955m.																
Depth Out (m):	Depth In (m):	Total Run (m/hr):					Fluid Loss: pH: 8.5						11:00	15:30	4.50	12	CONDITION MUD & CIRCULATE CSG																
Total Drilled (m):	Hrs Run Today:	Cumulative Hrs Run:					Location of Sample: SHAKER						15:30	15:45	0.25	21	SAFETY MEETING WITH HALIBURTON & CREW																
Entry Date:							Depth: 955m						15:45	18:15	2.50	12	Install wiper plug, cement head, and lines. Pump 1m3 of fresh water preflush ahead, stop pump, close valve, and pressure test lines to 21MPa. Bleed off and open valve. Continue to pump 2m3 of scavenger preflush at 1300kg/m3 followed by 14m3 (13 tonnes) of																
							PVT						18:15	18:30	0.25	12	Lead HalCem 'G' + 1.6% Haliburton Gel + 0.5% Halad 344 + 0.7% CaCl2 + 4% Econolite at 1665kg/m3 followed by 10.7m3 (14.1 tonnes) of Tail HalCem 'G' + 0.5% Halad 567 at 1895kg/m3. Stop pump, drop top plug, and displace casing with																
													18:30	20:00	1.50	12	18.3m3 of fresh water. Bump plug 10,000kPa over final circulating pressure. Pressure test casing to 21,000kPa for 10 minutes, bleed off and test floats (holding). Received 3m3 of good cement returns to surface. Flush BOP stack and rig out cementers.																

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG																					
Bit Number:	Size:	No:	Component:	OD:	ID:	Mud Type: Water	Time: 20:00	Time	Depth	Deviation	Direction	Type	From: 20:00	To: 24:00	Elapsed: 4.00	Code: 13	Details of Operations in Sequence & Remarks																
IADC Code:	Manufacturer:	Drill Pipe: Kelly Down	Stands: Total	Drill Pipe: Singles	Weight of DC	Other: Oil	Density: 1.00						20:00	24:00	4.00	13	WAIT ON CEMENT OPEN RAMS AND CLEAN OUT CEMENT, LAY DOWN FLOW LINE AND FLOW T. REMOVE HCR LINE, PREP TO SET CASING SLIPS																
Type:	Serial No:	Weight of String					Funnel Viscosity: 11.0																										
Depth Out (m):	Depth In (m):	Total Run (m/hr):					Fluid Loss: pH																										
Total Drilled (m):	Hrs Run Today:	Cumulative Hrs Run:					Location of Sample: SHAKER																										
Entry Date:							Depth: 955m																										
							PVT																										

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Tour Sheet Serial Number JKN11_20121014_1A	Vendor Software Version Pason	Year 2012	Month 10	Day 14
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1	Well Type VERT	
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Spud Date Time 2012/09/19 01:00		
Signature of Operator Representative JUSTIN COBAN		Signature of Contractor's Rig Manager Duncan Dittrick		Rig Release Date Time		

DAILY CHECKS

1) Daily Walk Around Inspection	OP
2) Detailed Inspection - Weekly (Using Check List)	RM
3) H2S Signs Posted if Required	
4) Well License & Stick Diagram Posted	
5) Flare Lines Staked	
6) BOP Drills Performed	
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	
1) Rig Site Health & Safety Meeting (one/crew/month)	
2) CAODC Rig Safety Inspection Checklist (one/rig/month)	
3) Mast Inspection before Raising or Lowering	
4) Crown Saver Checked	
5) Motor Kills Checked	



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Hours							2.75					4.00														8.00
Tour 1												4.00														4.00
Tour 2					4.50							7.00														12.00
Tour 3												4.00														4.00
Total					4.50		2.75					11.00		4.00												24.00

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type Boiler Boiler # Hours Run pH Stack Temp	From To Elapsed Code Details of Operations in Sequence & Remarks SAFETY Safety Topic MEHL MACP RUN CASING

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type Boiler Boiler # Hours Run pH Stack Temp	From To Elapsed Code Details of Operations in Sequence & Remarks SAFETY Safety Topic MEHL MACP RUN CSG

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS	DRILLING ASSEMBLY	MUD RECORD	DEVIATION SURVEYS	TIME LOG
Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	No Component OD ID Length Drill Pipe Kelly Down Total Weight of DC Weight of String	Mud Type Water Oil Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth	Time Depth Deviation Direction Type SOLIDS CONTROL Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density MUD MATERIALS ADDED Product Amount Type Boiler Boiler # Hours Run pH Stack Temp	From To Elapsed Code Details of Operations in Sequence & Remarks SAFETY Safety Topic MEHL MACP REMOVE FLOW LINE

FRONT PAGE SUMMARY

Tour Sheet Serial Number: JKN1_20121015_1A
 Vendor Software Version: Pason
 Year: 2012, Month: 10, Day: 15
 License No: 1129, Well Name: NCF E Chance E-78
 Surface Location: 66:07:18.56N/137:14:46.88W
 Prov: YT, Loc Type: LAT-LONG, Unique Well Id: 300e786610137000
 Operator: NORTHERN CROSS YUKON
 Contractor: NORTHERN CROSS YUKON
 Rig No: 1
 Well Type: VERT
 Re-Entry:
 Operator's AFE: 1C-O20-D02
 Signature of Operator Representative: ROD BEREZAY
 Signature of Contractor's Rig Manager: Duncan Dittrick

DAILY CHECKS

- Daily Walk Around Inspection
- Detailed Inspection - Weekly (Using Check List)
- H2S Signs Posted if Required
- Well Licence & Stick Diagram Posted
- Flare Lines Staked
- BOP Drills Performed
- Visually Inspected BOPs - Flare Lines & Degasser Lines

OP RM: SB DD, RB DD, DD DD



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Log	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	
Tour 1						1.75								5.25							0.25				0.75	8.00
Tour 2														1.00								11.00				12.00
Tour 3																						4.00				4.00
Total						1.75								6.25							0.25	15.00			0.75	24.00

Kelly Busting: 4.91, On Fuel: 2400.00
 FUEL @ 08:00 HOURS
 Rig: 3700.00, Meter: 1050.00
 Time: 06:00, Meter: -8.00
 WEATHER: Wind Direction: SE, Wind Strength: UP TO 19 KM/H, Cloud Condition: GOOD

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG								
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								00:00	02:00	2.00	4B	REMOVE HCR LINE, LIFT STACK.	
IADC Code							Time								02:00	02:45	0.75	25	SET CASING SLIPS @ 02:45 WITH 30 kDaN. CUT CSG	
Manufacturer							Density								02:45	06:00	3.25	4B	NIPPLE DOWN BOP'S. BREAK DOWN STACK AND LAY DOWN ELEMENTS	
Type							Funnel Viscosity								06:00	07:00	1.00		HGS FLOOR & TRIP IN HOLE. E 8.3'S DP WITH CLOSED STABBING VALVE ON BTM TO DISPLACE CASING WATER	
Serial No							Fluid Loss								07:00	07:15	0.25	21	SAFETY MEETING	
Jets							pH								07:15	08:00	0.75	6F	LAY DOWN DRILL PIPE	
Depth Out (m)							Location of Sample								Remarks: SET HIGH AND LOW POINTS					
Depth In (m)							Depth								VISUAL INSPECTION OF DRAWWORKS AND BRAKE SYSTEM					
Total Drilled (m)							PVT								VISUALLY INSPECT B.O.P. LIFTING SLING AND CLEVIS, ALL SLINGS AND LIFTING DEVICES					
Hrs Run Today															SAFETY					
Cumulative Hrs Run															Safety Topic: MEHL, MACP					
Entry Date															NIPPLE DOWN BOP'S					

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG								
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								08:00	09:00	1.00	4E	INSTALL WELLHEAD/TREE. CLEAN UP AND GRIND CASING. INSTALL SEAL ASSEMBLY.	
IADC Code							Time								09:00	20:00	11.00	22	INSTALL WELLHEAD, INSTALL ALL VALVES AND BLINDS	
Manufacturer							Density								RIG OUT TO SHUT DOWN. DRAIN AND BLOW OUT ALL MIX PUMPS. PRECHARGE PUMPS.					
Type							Funnel Viscosity								LINER WASH SYSTEMS. TRANSFER VOLUME & CLEAN TANKS. RIG RELEASED @ 1200 HRS					
Serial No							Fluid Loss								OCT 15 2012 RB					
Jets							pH								Remarks:					
Depth Out (m)							Location of Sample								SAFETY					
Depth In (m)							Depth								Safety Topic: MEHL, MACP					
Total Drilled (m)							PVT								RIG OUT					
Hrs Run Today																				
Cumulative Hrs Run																				
Entry Date																				

TOUR 3 SIGNATURE OF DRILLER Brad Grant **START TIME** 20:00 **END TIME** 24:00

BITS		DRILLING ASSEMBLY			MUD RECORD			DEVIATION SURVEYS				TIME LOG								
Bit Number		No	Component	OD	ID	Length	Mud Type	Water	Oil	Time	Depth	Deviation	Direction	Type	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks	
Size							Other								20:00	24:00	4.00	22	TEAR OUT RIG CLEAN MUD TANKS	
IADC Code							Time								Remarks:					
Manufacturer							Density													
Type							Funnel Viscosity													
Serial No							Fluid Loss													
Jets							pH													
Depth Out (m)							Location of Sample													
Depth In (m)							Depth													
Total Drilled (m)							PVT													
Hrs Run Today																				
Cumulative Hrs Run																				
Entry Date																				

FRONT PAGE SUMMARY

License No 1129	Well Name NCY E Chance E-78	Job Sheet Serial Number JKN11_20121016_1A	Vendor Software Version Pason	Tour Year 2012 Month 10 Day 16
Operator NORTHERN CROSS YUKON		Contractor NORTHERN CROSS YUKON		Rig No 1
Operator's AFE 1C-O20-D02		Contractor's Job No 1		Well Type VERT
Signature of Operator Representative ROD BEREZAY		Signature of Contractor's Rig Manager Duncan Dittrick		Re-Entry <input type="checkbox"/>
Surface Location 66:07:18.56N/137:14:46.88W		Unique Well Id 300e786610137000		Spud Date Time 2012/09/19 01:00
				Rig Release Date Time 2012/10/15 12:00

DAILY CHECKS

1) Daily Walk Around Inspection	SB	DD
2) Detailed Inspection - Weekly (Using Check List)	SB	DD
3) H2S Signs Posted if Required	SB	DD
4) Well License & Stick Diagram Posted	SB	DD
5) Flare Lines Staked	SB	DD
6) BOP Drills Performed	SB	DD
7) Visually Inspected BOPs - Flare Lines & Degasser Lines	SB	DD

1) Rig Site Health & Safety Meeting (one/crew/month)
2) CAODC Rig Safety Inspection Checklist (one/rig/month)
3) Mast Inspection before Raising or Lowering
4) Crown Saver Checked
5) Motor Kills Checked



CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL	
HOURS	Rig Up	Drill Actual	Reaming	Coring	Cond Mud & Circ	Trips	Rig Service	Repair Rig	Cut Off Drill Line	Dev Survey	Wireline Logs	Run Csg & Cement	Wait On Cement	Nipple Up BOP	Test BOP	Drillstem Test	Plug Back	Squeeze Cement	Fishing	Dir Work	Safety Meeting	Tear Down	Waiting On	Rig Watch	Other	TOTAL	
Tour 1																										8.00	
Tour 2																											12.00
Tour 3																											
Total																											20.00

FUEL @ 08:00 HOURS

Rig	3150.00	Blower	1500.00
Time	06:00	Temp	4.00
Current Conditions	PARTLY CLOUDY		
Wind Direction	NE		
Road Condition	JP TO 19 KM/H		
Wind Strength	GOOD		

TOUR 1 SIGNATURE OF DRILLER Brad Grant **START TIME** 00:00 **END TIME** 08:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length			MUD RECORD Mud Type Water <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>			DEVIATION SURVEYS Time Depth Deviation Direction Type				TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks			
	Drill Pipe Stands Drill Pipe Singles			Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT			Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density				00:00 08:00 8.00 22 TEAR DOWN			
	Kelly Down Total Weight of DC Weight of String			CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run			SOLIDS CONTROL				MUD MATERIALS ADDED Product Amount Type			
	HOLE CONDITION Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/> Torque at Bottom Fill on Bottom			REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth			SAFETY Boiler # Hours Run pH Stack Temp				Safety Topic MEHL MACP			

TOUR 2 SIGNATURE OF DRILLER James Mackinnon **START TIME** 08:00 **END TIME** 20:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length			MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>			DEVIATION SURVEYS Time Depth Deviation Direction Type				TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks			
	Drill Pipe Stands Drill Pipe Singles			Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT			Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density				08:00 20:00 12.00 22 TEAR DOWN			
	Kelly Down Total Weight of DC Weight of String			CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run			SOLIDS CONTROL				MUD MATERIALS ADDED Product Amount Type			
	HOLE CONDITION Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/> Torque at Bottom Fill on Bottom			REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth			SAFETY Boiler # Hours Run pH Stack Temp				Safety Topic MEHL MACP			

TOUR 3 SIGNATURE OF DRILLER Duncan Dittrick **START TIME** 20:00 **END TIME** 24:00

BITS Bit Number Size IADC Code Manufacturer Type Serial No Jets Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date	DRILLING ASSEMBLY No Component OD ID Length			MUD RECORD Mud Type Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>			DEVIATION SURVEYS Time Depth Deviation Direction Type				TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks			
	Drill Pipe Stands Drill Pipe Singles			Time Density Funnel Viscosity Fluid Loss pH Location of Sample Depth PVT			Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density							
	Kelly Down Total Weight of DC Weight of String			CIRCULATION Pump# Type Liner Size SPM Pressure Hours Run			SOLIDS CONTROL				MUD MATERIALS ADDED Product Amount Type			
	HOLE CONDITION Hole Drag Up <input type="checkbox"/> Down <input type="checkbox"/> Torque at Bottom Fill on Bottom			REDUCED PUMP SPEED Pump No. Pressure Strokes/min Depth			SAFETY Boiler # Hours Run pH Stack Temp				Safety Topic MEHL MACP			



Wellhead

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Wellheads			
Type Casing head WFT-22	Make Weatherford	Max Pres (kPa)	Install Date 26/09/2012

Wellhead Components									
Des	Make	Model	WP (kPa)	Service	WP Top (kPa)	Top Ring Gasket	Bore Min (mm)	SN	Com
279.4mm - 20.7MPa x 244.5mm Slip On Weld	Weatherford	Type WFT-22			20,700			612068	

Wellhead Attached Files				
Description	Ref #	Date	Type 1	Type 2

Attached Image File

Selected table has no valid attachments that can be displayed



Wellhead

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Wellheads			
Type Tubing Bonnet Assemb	Make Weatherford	Max Pres (kPa)	Install Date 15/10/2012

Wellhead Components									
Des	Make	Model	WP (kPa)	Service	WP Top (kPa)	Top Ring Gasket	Bore Min (mm)	SN	Com
179.4mm X 52.4mm Studded up	Weatherford	Type B5T	20,700					615635	

Wellhead Attached Files				
Description	Ref #	Date	Type 1	Type 2

Attached Image File

Selected table has no valid attachments that can be displayed



Wellhead

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Wellheads			
Type Tubing Hanger Assemb	Make Weatherford	Max Pres (kPa)	Install Date 15/10/2012

Wellhead Components									
Des	Make	Model	WP (kPa)	Service	WP Top (kPa)	Top Ring Gasket	Bore Min (mm)	SN	Com
179.4mm x 60.3mm EUE Lift x Suspension threads	Weatherford	Type H5G						612979	

Wellhead Attached Files				
Description	Ref #	Date	Type 1	Type 2

Attached Image File

Selected table has no valid attachments that can be displayed



Wellhead

Well Name: Attention: Yukon Oil and Gas Regulators - NCY E Chance E-78

API/UWI 300E786610137000	Surface Legal Location 66:07:18.56N/137:14:46.88W	License # 1129	Well Configuration Type Vertical	Ground Elevation (m) 604.79	Casing Flange Elevation (m) 605.32	KB-Ground Distance (m) 4.91	KB-Casing Flange Distance (m) 4.38
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Wellheads			
Type Tubing Spool Assembl	Make Weatherford	Max Pres (kPa)	Install Date 15/10/2012

Wellhead Components									
Des	Make	Model	WP (kPa)	Service	WP Top (kPa)	Top Ring Gasket	Bore Min (mm)	SN	Com
279.4mm, 179.4mm x2, 52.4mm studded side outlets	WEATHERFOR D	Type B	20,700					612044	

Wellhead Attached Files				
Description	Ref #	Date	Type 1	Type 2

Attached Image File

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