

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Source Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) 5.28	

Primary Wellbore Affected
Original Hole, 300N96500126300

Weather Cold and windy	Temperature (°C) -33	Road Condition Fair	Hole Condition
Operations at Report Time Drilling 311mm surface hole.		Operations Next Report Period Drill, Circ, Trip for bit and BHA, Drill ahead.	

Operations @ 06:00
Tripping for bit #2

Operations Summary
Rigged to spud, layed out the liner to put matting on. Picked up the BHA. and serviced the rig. Held a crew hand over and a safety meeting.. Held a pre-spud safety meeting and rig inspection. Finished picking up the BHA. Repair Pason Equipment. Thaw out the kelly and kelly hose. (4.50 hrs). Spudded well at 1530 hrs and drill 311mm surface hole to 47m. Serviced the rig. Functioned the diverter and changed out the crown lghts. Held a safety meeting and a BOP drill. Drilled ahead from 47m to 57m. held a crew hand over and a safety meeting. Drilled ahead to 81m with surveys.

Remarks
No accidents, incidents or enviromental concerns.
Directions to the location. From Norman Wellstake the winter road south for approx 30km. Turn right and go through the security. Continue on the Husky Winter Rd to the location and km 22.

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hesselddorffer	DR Field Super	
	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	ProbU...	Problem Time (hrs)	Problem Ref #	Comment
00:00	2.00	2.00	02:00	1	RIGUP & TEARDOWN				RIG UP TO SPUD
02:00	1.50	3.50	03:30	6	TRIPS				PICK UP BIT ,BIT SUB.8 COLLAR
03:30	1.50	5.00	05:00	25					LAY OUT MATTING LINER ON SHALE TANKS
05:00	1.00	6.00	06:00	21	SAFETY MEETING				HUSKY HAZARD HUNT AND PRE SPUD SHEET FOUND TONG HANGING LINE WAS WRAPPED AROUND DEAD LINE,RECTIFIED AND ESCAPE LINE HAD NO RIBONS
06:00	0.25	6.25	06:15	7	RIG SERVICE				RIG SERVICE
06:15	0.75	7.00	07:00	6	TRIPS				PICK UP BHA
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	0.50	7.75	07:45	21	SAFETY MEETING				SAFETY MEETING PRE SPUD INSPECTION
07:45	0.25	8.00	08:00	21	SAFETY MEETING				SAFETY MEETING ON PICKING UP BHA
08:00	1.00	9.00	09:00	6	TRIPS				PICK UP BHA AND FILL TANKS
09:00	1.00	10.00	10:00	25					FIX PASON
10:00	2.00	12.00	12:00	8	Rig Repair				THAW OUT KELLY HOSE
12:00	3.50	15.50	15:30	8	Rig Repair				REMOVE KELLY HOSE FROM THE STAND PIPE AN THAW OUT. INSTALL KELLY HOSE
15:30	2.25	17.75	17:45	2	DRILL				DRILL 311MM HOLE FR -0- TO -47M
17:45	0.25	18.00	18:00	7	RIG SERVICE				RIG SERVICE F/T DIVERTER AND HCR , 15 SEC TO C/O BAG, 3 SEC TO O/C HCR , CHANGED OUT CROWN LIGHTS
18:00	0.25	18.25	18:15	21	SAFETY MEETING				SAFETY MEETING
18:15	0.75	19.00	19:00	2	DRILL				DRILL 311MM HOLE FR 47M -TO- 57M
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
19:15	4.25	23.50	23:30	2	DRILL				DRILL 311MM HOLE FR 57M-TO- 81M
23:30	0.50	24.00	00:00	10	DEV. SURVEY				ACCUM DEVIATION SURVEYANS D CONNECTION TIME

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:30
Daily Cost Total 91,217.35	Cum Cost To Date 2,543,227.89
Daily Mud Cost 32.35	Mud Additive Cost To Date 5,739.86
Depth Start (mKB) 0.00	Depth End (mKB) 81.00

Last Casing String	
Depth Progress (m) 81.00	
Depth Start (TVD) (mKB) 0.00	Depth End (TVD) (mKB)
Target Formation Canol	Est Total Depth (mKB)
Personnel Total Hours (hrs) 216.00	Cum Pers Tot Hr (hrs) 708.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 201.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	3	36.00
Husky Office	1	12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	2	24.00
R'G Mallett Oilfield Enterprises	1	12.00
NEW VENDOR	1	12.00
Husky Office	1	12.00
Ketek Industries Ltd	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Husky Office	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	1/27/2012	1/28/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, P28		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)
1,000		96 95

# 2, Continental-Emsco, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)
1,000		96 95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
SODA ASH	15.87	1.0
SAWDUST	4.12	4.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
54.00	0.40	0.00	54.00

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)



Well Name: LITTLE BEAR N-9

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
GEI	22:00	81.00	1010.0	35		
GEI 10 sec (Pa)	GEI 10 min (Pa)	GEI 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
					8.0	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		

Drill Strings

BHA #1, Drilling Assembly

Bit R... Drill Bit	Make	IAAC Bit Drill	TFA (incl Noz) (mm²)
1 311.1mm, XR0P8, PGK175	SMITH	-----	594
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
15.9/15.9/15.9	72.18		11.2

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Singles	0			0.00	
Drill pipe - Stands	0			0.00	
HWDP(4.0 IN)	2	102.0		18.34	
X/O	1	165.0		0.71	
DC (6.25 IN)	3	165.0		28.23	
JARS-HYD	1	165.0		6.10	
BELL SUB	1	165.0		0.78	
DC (8.00 IN)	2	195.0		16.98	
BIT SUB	1	260.0		0.71	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	0.00	81.00	81.00	7.25	7.25	11.2	2.300
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	110	1,000	15,000	15,000	15,000		
Q (g in) (m³/min)	T (In) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m)	Ground Elev. (m) 253.50	KB Elevation (m) 258.80
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 112.0	

Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Cold and windy	Temperature (°C) -41	Road Condition Fair	Hole Condition Good
Operations at Report Time Finish building volume and Drill ahead 311mm Hole.		Operations Next Report Period Drill 311mm Surface Hole.	

Operations @ 06:00 Drilling Surface Hole @ 252m.	Operations Summary Drill 311mm Surface Hole F/81m TO/112m. Circulate clean the hole prior to trip out with Bit #1. At Surface laydown the two 8" Drill collars, Pick up Bit #2 PDC and Phoenix Directional Tools, and trip in the hole. Drill 311mm Surface Hole F/112m TO/169m, at 150m started getting losses. At 169m stop drilling and build volume, lost 20m3 of surface mud.
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Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location and km 22, RADIO CONTROLLED.

Daily Contacts			
Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log									
Start Time	End Time	Cum Dur (hrs)	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment	
00:00		2.75	2	DRILL				DRILL 311MM HOLE F/81M-TO-98M	
02:45	02:45	3.00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 3. SEC C/O	
03:00	03:00	3.25	21	SAFETY MEETING				DRILLS / BOP, WITH DIVERTER	
03:15	03:15	5.75	2	DRILL				DRILL 311MM HOLE F/98M TO/112M	
05:45	05:45	6.25	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE	
06:15	06:15	7.00	6	TRIPS				TRIPS P.O.O.H TO PICK UP BHA #2 FLOW CHECKS AS REQ. 110M,50M,OUT OF HOLE.	
07:00	07:00	7.25	21	SAFETY MEETING				CREW CHANGE HAND OVER AND PRE-TOUR SAFETY MEETING W/RIG CREW+RIG MANAGER+HUSKY REP	
07:15	07:15	8.00	6	TRIPS				LAY DOWN 8" DRILL COLLARS	
08:00	08:00	8.25	21	SAFETY MEETING				SAFETY MEETING	
08:15	08:15	12.00	20	DIR. WORK				DIRECTIONAL WORK, PICK UP TOOLS, STEAM MOTOR SO WE CAN PUT BEND IN IT.	
12:00	12:00	15.75	20	DIR. WORK				DIRECTIONAL WORK, PICK UP TOOLS AND STEAM	
15:45	15:45	17.00	6	TRIPS				TRIP IN HOLE WITH DIRECTIOAL, take balls and elavators off	
17:00	17:00	18.00	2	DRILL				DRILL 311MM HOLE F/112M TO/114M	
18:00	18:00	18.25	7	RIG SERVICE				RIG SERVICE F/T DIVERTER 10 SEC C/O	
18:15	18:15	19.00	20	DIR. WORK				DIRECTIONAL SURVEYS CALIBRATE MWD	
19:00	19:00	19.25	21	SAFETY MEETING				CREW CHANGE HAND OVER AND PRE-TOUR SAFETY MEETING W/RIG CREW+RIG MANAGER+HUSKY REP	
19:15	19:15	22.00	2	DRILL				DRILL 311MM HOLE F/114M TO/169M	
22:00	22:00	23.50	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE BUILD VOLUME, RAISE VIS, DUE TO LOSSES	
23:30	23:30	24.00	20	DIR. WORK				ACCUM DIRECTIONAL SURVEYS AND CONNECTIONS	

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 255,788.49	Cum Cost To Date 2,785,666.38
Daily Mud Cost 1,478.88	Mud Additive Cost To Date 7,218.72
Depth Start (mKB) 81.00	Depth End (mKB) 169.00

Last Casing String	
Depth Progress (m) 88.00	
Depth Start (TVD) (mKB) 81.00	Depth End (TVD) (mKB) 168.99
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 312.00	Cum Pers Tot Hr (hrs) 1,020.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 202.00	Days RI (days)

Personnel Log		
Company	Count	Total Time (hrs)
Nabors Drilling Limited	3	36.00
Husky Office	1	12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	2	24.00
R G Mallett Oilfield Enterprises	1	12.00
NEW VENDOR Hessdorfer Consulting Ltd.	1	12.00
Husky Office	1	12.00
Ketek Industries Ltd	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
Formula Powell L.P.	8	24.00

Safety Check Summary		
Type	Last Date	Next Date
Safety Meeting	1/28/2012	1/29/2012

Rigs	
Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps				
# 1, Gardner-Denver, PZ8				
Pwr (kW)	Rod Dia (mm)		Stroke (mm)	
			203.0	
Liner Size (mm)		Vol/Stk OR (m³/stk)		
152.0				
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)	
660	No	85	95	
# 2, Continental-Emsco, F800				
Pwr (kW)	Rod Dia (mm)		Stroke (mm)	
			229.0	
Liner Size (mm)		Vol/Stk OR (m³/stk)		
152.0				
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)	
660	No	88	95	

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
SAWDUST	4.12	4.0
SODA ASH	15.87	4.0
FEDERAL GEL	12.43	70.0
FED ZAN D	105.76	5.0

Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
117.70	0.90	323.10	117.70
144.81	1.00	330.30	144.80
172.59	1.10	349.10	172.58

Well Name: LITTLE BEAR N-9

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Gel-Chem	23:45	178.00	1020.0	47	13.0	3.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (ml/30min)	Filter Cake (mm)	pH	Solids (%)
1.000	2.000	3.500	10.0	1.0	9.5	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
				100.000		
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
				48.00		

Drill Strings

BHA #1, Drilling Assembly

Bit R	Drill Bit	Make	IADC Bit Duff	TFA (incl Noz) (mm²)
1	311.1mm, XR0P8, PGK175	SMITH	2-2-WT-A-E-0-NO-BHA	594
Nozzles (mm)	15.9/15.9/15.9	String Length (m)	String Wt (daN)	BHA ROP (m...)
		72.18		9.0

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Singles	0	101.6	70.0	0.00	
Drill pipe - Stands	0	101.6	70.0	0.00	
HWDP(4.0 IN)	2	102.0	68.0	18.34	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	3	165.0	58.0	28.23	
JARS-HYD	1	165.0	71.0	6.10	
BELL SUB	1	165.0	80.0	0.78	
DC (8.00 IN)	2	195.0	75.0	16.98	
BIT SUB	1	260.0		0.71	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	81.00	112.00	112.00	5.25	12.50	5.9	2.300
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	110	1,100	18,000	18,000	18,000	2,100.0	500.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

BHA #2, Drilling Assembly

Bit R	Drill Bit	Make	IADC Bit Duff	TFA (incl Noz) (mm²)
2	311.0mm, MI616, JD5363	SMITH	-----	445
Nozzles (mm)	11.9/11.9/11.9/11.9	String Length (m)	String Wt (daN)	BHA ROP (m...)
		169.00		15.2

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	197.0	70.0	12.63	
Drill pipe - Singles	1	101.6	70.0	9.38	
Drill pipe - Stands	0	101.6	70.0	0.00	
HWDP(4.0 IN)	8	102.0	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
BELL SUB	1	165.0	80.0	0.96	
MONEL	2	207.0	84.0	18.92	
UBHO	1	203.0	77.0	0.98	
MOTOR LS	1	197.0	68.0	8.60	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	112.00	169.00	57.00	3.75	3.75	15.2	2.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	42	4,075	20,000	20,000	20,000	2,300.0	650.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
1/28/2012 21:30	159.00	1/28/2012 22:45	159.00	Lost Circulation

Comment

Had minor losses and then at approx 130m losses started to increase to the point that we had to shut down and build volume, increase viscosity and mix some LCM. The losses dropped off to just minor seepage. Was drilling through sand at the time.

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630		Surface Legal Location 300N96500126300		License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Litho Classification TH (C)		Business Unit Canada Frontier - Exploration	
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80	KB to Gnd (m) 5.28	
KB-Casing Flange Distance (m)		KB-Tubing Head Distance (m)		Total Depth All (TVD) (mKB) Original Hole - 466.9	
Primary Wellbore Affected Original Hole, 300N96500126300					
Weather Cold and windy		Temperature (°C) -39	Road Condition Fair	Hole Condition Good	
Operations at Report Time Drilling 311mm surface hole.			Operations Next Report Period Drill 311mm Surface hole, Wiper trip to surface strap out, RIH, Drill 311mm to TD, Circ hole clean.		
Operations @ 0600 Drilling Surface Hole @ 527m.		Operations Summary Drill 311mm Surface Hole F/169m TO/467m, no problems hole is cleaning good, running centrifuge. Held crew hand over + safety meetings with both crews.			

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Base Oil Delivered today = 0m3, Total on Location = 30m3.
Invert Delivered today = 60m3, Total on Location = 90m3.

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
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Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	6.75	6.75	06:45	2	DRILL				DRILL 311MM HOLE FR/169M-TO- 261M
06:45	0.25	7.00	07:00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR DEVERTER 6 SEC C/O
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER AND PRE TOUR SAFETY MEETING W/RIG CREWS+RIG MANAGERS+HUSKY REPS.
07:15	4.00	11.25	11:15	2	DRILL				DRILL 311MM HOLE FR/261M-TO- 328M
11:15	0.75	12.00	12:00	20	DIR. WORK				DIRECTIONAL SURVEYS SET, GET GAMMA AND CONNECTION TIME
12:00	2.75	14.75	14:45	2	DRILL				DRILL 311MM HOLE FR 328M TO 364M
14:45	0.25	15.00	15:00	7	RIG SERVICE				RIG SERVICE F/T DIVERTER 9 SEC C/O
15:00	4.00	19.00	19:00	2	DRILL				DRILL 311MM HOLE FR 364M TO 419M
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING WITH OTHER CREW, W/CREWS+RIG MANAGERS+HUSKY REPS.
19:15	3.75	23.00	23:00	2	DRILL				DRILL 311MM HOLE FR 419M-TO- 467M
23:00	1.00	24.00	00:00	20	DIR. WORK				DIRECTIONAL SURVEYS SET, GET GAMMA AND CONNECTION TIME

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Gel-Chem	23:45		1140.0	46	15.0	7.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
2.000	3.500	9.000	8.0	1.5	9.0	0.0
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
			0.000			
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
			27.00	64.80		

Drill Strings

BHA #2, Drilling Assembly					
Bit R...	Drill Bit	Make	IADC Bit Drill	TFA (incl Noz) (mm)	
2	311.0mm, M1616, JD5363	SMITH	-----	1,583	
Nozzles (mm)			String Length (m)	String Wt (daN)	BHA ROP (m)
			11.9/11.9/11.9/11.9/11.9/11.9/11.9	467.00	14.2

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	197.0	70.0	12.54	
Drill pipe - Singles	1	101.6	70.0	9.23	
Drill pipe - Stands	16	101.6	70.0	298.24	
HWDP(4.0 IN)	8	102.0	68.0	72.65	
X/O	1	165.0	73.0	0.71	

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 548,843.57	Cum Cost To Date 3,321,324.95
Daily Mud Cost 3,218.13	Mud Additive Cost To Date 10,436.85
Depth Start (mKB) 169.00	Depth End (mKB) 467.00
Last Casing String	
Depth Progress (m) 298.00	
Depth Start (TVD) (mKB) 168.99	Depth End (TVD) (mKB) 466.90
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 480.00	Cum Pers Tot Hr (hrs) 1,500.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 203.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office	1	12.00
Mi Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Husky Office	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	4	48.00
Northridge	3	36.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	1/29/2012	1/30/2012

Rigs

Contractor	Rig Number
Nabors Drilling	23
Rig Supervisor	Phone Mobile
Troy Preuss	
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8				
Pwr (kW)	Rod Dia (mm)	Stroke (mm)		
		203.0		
Liner Size (mm)		Vol/Stk OR (m³/stk)		
152.0				
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)	
9,500		95	95	
# 2, Continental-Emsco, F800				
Pwr (kW)	Rod Dia (mm)	Stroke (mm)		
		229.0		
Liner Size (mm)		Vol/Stk OR (m³/stk)		
152.0				
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)	
9,500		95	95	

Mud Additive Amounts

Description	Cost (Unit)	Consumed
SODA ASH	15.87	3.0
FED SEAL	18.47	13.0
FED ZAN D	105.76	18.0
SAWDUST	4.12	35.0
FEDERAL GEL	12.43	71.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
368.32	1.00	27.60	368.25
396.44	1.50	28.00	396.36
424.13	1.40	44.30	424.04

Well Name: LITTLE BEAR N-9

Drill String Components

Item Description	Uts	OD (mm)	ID (mm)	Len (m)	Top Thread
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
BELL SUB	1	165.0	80.0	0.96	
MONEL	2	207.0	84.0	18.92	
UBHO	1	203.0	77.0	0.98	
MOTOR LS	1	197.0	68.0	8.60	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	169.00	467.00	355.00	21.25	25.00	14.0	2.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
6,000	45	9,500	20,000	22,000	18,000	3,800.0	1,000.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
452.28	1.30	34.20	452.19
467.00			466.90

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 633.8	

Primary Wellbore Affected
Original Hole, 300N96500126300

Weather
Cold and windy

Temperature (°C)
-33

Road Condition
Fair

Hole Condition
Good

Operations at Report Time
Laying down directional tools.

Operations Next Report Period
Laydown directional tools, RIH Slick, Drill to TD 639m, Circ hole clean, POOH, Run 244.5mm Csg, Circ csg, Cement csg.

Operations @ 06:00
Drill 311mm surface hole to 639.00m

Operations Summary
Drill 311mm Surface Hole F/467m TO/634m, no problems hole is cleaning good, running centrifuge. Wiper trip to surface and strap out & laydown directional tools, (Tally = 634.46m Strap = 634.36m, Diff = 0.10m). Held crew hand over + safety meetings with both crews.

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Base Oil Delivered today = 0m3, Total on Location = 30m3.
Invert Delivered today = 0m3, Total on Location = 90m3.

Daily Contacts			
Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U.	Problem Time (hrs)	Problem Ref #	Comment
00:00	6.75	6.75	06:45	2	DRILL				DRILL 311MM HOLE FR/ 467M-TO- 531M
06:45	0.25	7.00	07:00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 10 SEC C/O
07:00	4.25	11.25	11:15	2	DRILL				DRILL 311 MM HOLE FR/ 531M-TO-596M
11:15	0.75	12.00	12:00	20	DIR. WORK				ACCUM. DIRECTIONAL SURVEY, SYNC FOR GAMA
12:00	1.75	13.75	13:45	2	DRILL				DRILL 311MM HOLE FR 565M TO 596M
13:45	0.25	14.00	14:00	7	RIG SERVICE				RIG SERVICE F/T DIVERTER 8 SEC C/O
14:00	3.25	17.25	17:15	2	DRILL				DRILL 311MM HOLE FR 596M TO 634 M
17:15	2.00	19.25	19:15	5	COND MUD & CIRC				CIRCULATE AND CONDITION FOR WIPER TRIP, THAW OUT RAT HOLE
19:15	0.25	19.50	19:30	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
19:30	3.75	23.25	23:15	6	TRIPS				WIPER TRIP,PULL TIGHT WORK THREW TIGHT SPOTS, STRAP OUT, FLOW CHECKS AS REQ 624M,628M,307M,AND OUT OF HOLE,
23:15	0.75	24.00	00:00	20	DIR. WORK				HANDLE DIRECTIONAL TOOLS, LAY OUT TOOLS, STRAP OUT TALLY=634.36, STRAP=634.46, DIFF=.10m

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (cP)	Plastic Visc (cp)	Yield Point (Pa)	
Gel-Chem	18.00	634.00	1120.0	67	17.0	11.500	
Gel 10 sec (Pa)	6.000	8.000	13.500	7.5	1.5	9.0	6.5
MBT (kg/m³)		Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
			0.000				
Whole Mud Added (m³)	Mud Lost to Hole (m³)		Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	2.00		0.00		77.50		

Drill Strings			
BHA #2, Drilling Assembly			
Bit R	Drill Bit	Make	IADC Bit Dtl
2	311.1mm, MI616, JD5363	SMITH	2-2-WT-S-X-O-NO-BHA
Nozzles (mm)		String Length (m)	String Wt (daN)
	11.9/11.9/11.9/11.9/11.9/11.9/11.9	634.00	12.7

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
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Primary Job Type	
Initial Drilling	
Start Date	End Date
1/20/2012	
Final Status	Spud Date
	1/27/2012 15:50

Daily Cost Total	Cum Cost To Date
234,282.28	3,555,607.23
Daily Mud Cost	Mud Additive Cost To Date
2,827.84	13,264.69

Depth Start (mKB)	Depth End (mKB)
467.00	634.00

Last Casing String

Depth Progress (m)	167.00
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Depth Start (TVD) (mKB)	Depth End (TVD) (mKB)
466.90	633.81

Target Formation	Est Total Depth (mKB)
Canol	1,770.00

Personnel Total Hours (hrs)	Cum Pers Tot Hr (hrs)
528.00	2,028.00

Time Log Total Hours (hrs)	Problem Time Hours (hrs)
24.00	

Problem Time (%)	Cum Problem Time (%)

Days LTI (days)	Days RI (days)
204.00	

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office	1	12.00
Mi Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	4	48.00
Northridge	3	36.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
NEW VENDOR	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	1/30/2012	1/31/2012

Rigs

Contractor	Rig Number
Nabors Drilling	23
Rig Supervisor	Phone Mobile
Troy Preuss	
Rig Release Date	

Mud Pumps

1, Gardner-Denver, PZ8

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		203.0

Liner Size (mm)	Vol/Sik OR (m³/sik)
152.0	

Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
11,150		95	95

2, Continental-Emasco, F800

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0

Liner Size (mm)	Vol/Sik OR (m³/sik)
152.0	

Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
11,150		95	95

Mud Additive Amounts

Description	Cost (unit)	Consumed
SAWDUST	4.12	18.0
SODA ASH	15.87	1.0
FED SEAL	18.47	13.0
FED ZAN D	105.76	19.0
SAWDUST	4.12	28.0
FEDERAL GEL	12.43	30.0

Well Name: LITTLE BEAR N-9

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	197.0	70.0	12.46	
Drill pipe - Singles	1	101.6	70.0	9.41	
Drill pipe - Stands	25	101.6	70.0	465.14	
HWDP(4.0 IN)	8	102.0	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
BELL SUB	1	165.0	80.0	0.96	
MONEL	2	207.0	84.0	18.92	
UBHO	1	203.0	77.0	0.98	
MOTOR LS	1	197.0	68.0	8.60	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	467.00	634.00	522.00	16.00	41.00	10.4	2.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
7,000	45	11,175	27,000	29,000	24,000	3,900.0	1,000.0
Q (g in) (m³/min)	T (In) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
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Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)
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Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
535.36	1.90	48.30	535.23
563.57	1.80	38.30	563.42
591.47	1.90	32.80	591.31
619.36	2.10	43.30	619.18
634.00	2.21	48.95	633.81

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)
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Hole Size (mm)

Max Nominal OD (mm)

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lease Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth At (TVD) (mKB) Original Hole - 638.8	

Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Cold and calm	Temperature (°C) -32	Road Condition Fair	Hole Condition Good

Operations at Report Time Rig out cementers+flush.	Operations Next Report Period Wait on cement, nipple down Diverter, Cut conductor+csg, Weld bowl, Nipple up, Press test bop.
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Operations @ 06:00 Wait on Cement.	Operations Summary Laydown directional tools, Make up PDC Bit #2RR with bit sub slick assembly along with the jars, RIH W/same, wash in F/604m TO/634m bottom. Drill 311mm Hole F/634m TO/639m/KB TD surface hole. Circulate condition hole & work drill string. POOH W/slick assembly no hole problems. Rig up floor to run casing, Held safety meeting w/Rig Crew+Tong Hands+Rig Manager+Husky Rep. Make up float & shoe, Run 48 Joints of 244.5mm/53.57kg/m/J55/LTC/NEW Prudential casing, Total Length = 639.44m, Shoe Set @ 639m/KB. Washed Last Two Singles To Bottom. Circulate casing three full bottoms up prior to Safety meeting w/Rig crew+Schlumberger Cementers+Rig Manager+Husky Reps. Cement csg with, Pumped Preflush 4m3 water, Mix & pump 47 tonnes (43.1m3 slurry @ 130% excess) RFC cement + 2.0% CaC12 + 0.2% Anti Foam (6 sxs of Fed Seal) @ 1740kg/m3. Lost returns while pumping cement, slow pump rate to 0.50m3 rate and after approximately 4-5m3 got returns back, drop plug, Displace w/26m3 of water, When cement came to surface had 19m3 left to pump and lost returns, slow rate to 0.50m3 got returns 10m3 of good returns to surface, pumped 0.50m3 over displacement and did not pump plug, at this time stopped pumping.
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Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Base Oil Delivered today = 0m3, Total on Location = 30m3.
Invert Delivered today = 60m3, Total on Location = 150m3.

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/L	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.25	0.25	00:15	21	SAFETY MEETING				SAFETY MEETING WITH PHOENIX DIR PRIOR TO LAYING DOWN DIR TOOLS REVIEWED JSA # B-80
00:15	2.25	2.50	02:30	20	DIR. WORK				HANDLE DIRECTIONAL TOOLS LAY DOWN MONELS AND TOOLS
02:30	2.75	5.25	05:15	6	TRIPS				MAKE UP BIT, BIT SUB, RUN IN HOLE SLICK
05:15	0.75	6.00	06:00	3	REAMING				REAM & CLEAN FR/ 604M-TO-634M
06:00	0.25	6.25	06:15	2	DRILL				DRILL 311MM HOLE FR634M-TO- 639M
06:15	0.75	7.00	07:00	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE W/TWO CREWS, RIG MANAGERS, HUSKY REPS
07:15	0.75	8.00	08:00	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
08:00	3.50	11.50	11:30	6	TRIPS				TRIP OUT OF HOLE FLOW CHECK @629M, 528M,344M, 148M, OUT OF HOLE , MESR 2.85 M3 - CAL 4.69 M3 =DIFF 1.84 M3
11:30	0.50	12.00	12:00	25					BLOW OUT KELLY SUCK SOCK OUT
12:00	2.00	14.00	14:00	25					BLOW OUT KELLY SUCK SOCK GET FLOOR READY TO WORK ON
14:00	0.25	14.25	14:15	21	SAFETY MEETING				SAFETY MEETING WITH POWER TONG HANDS, RIG CREW, HUSKY REP.

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 873,615.98	Cum Cost To Date 4,323,302.21
Daily Mud Cost 426,101.89	Mud Additive Cost To Date 439,366.58
Depth Start (mKB) 634.00	Depth End (mKB) 639.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 5.00	
Depth Start (TVD) (mKB) 633.81	Depth End (TVD) (mKB) 638.81
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 562.00	Cum Pers Tot Hr (hrs) 2,590.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 205.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office	1	12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	4	48.00
Northridge	3	36.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
NEW VENDOR	2	24.00
Hallmark Technical Service	2	16.00
Schlumberger Canada Ltd.	3	18.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	1/31/2012	2/1/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

#1, Gardner-Denver, PZ8		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)
	No	
#2, Continental-Emsco, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)
	No	

Mud Additive Amounts

Description	Cost (unit)	Consumed
FED RHEOSMART	42.76	3.0
FED SEAL	18.47	6.0
FED ZAN D	105.76	7.0
FEDERAL GEL	12.43	9.0
BASE OIL	2,102.07	30.0

Well Name: LITTLE BEAR N-9

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	-Comment
14:15	0.25	14.50	14:30	12	RUN CASING AND CEMENT				RIG UP TO RUN CASING
14:30	4.50	19.00	19:00	12	RUN CASING AND CEMENT				MAKE UP FLOAT & SHOE, RUN 48 JOINTS OF 244.5mm/53.57kg/m/J55/LTC/N... PRUDENTIAL CASING, TOTAL LENGTH = 639.44m, SHOE SET @ 639M/KB. WASHED LAST TWO SINGLES TO BOTTOM.
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/CREWS, RIG MANAGER, HUSKY REPS.
19:15	2.25	21.50	21:30	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
21:30	0.25	21.75	21:45	21	SAFETY MEETING				SAFETY MEETING W/RIG CREW, SCHLUMBERGER CEMENTERS, HUSKY REPS ETC, PRIOR TO CEMENT JOB.
21:45	1.25	23.00	23:00	12	RUN CASING AND CEMENT				Cement csg with, Pumped Preflush 4m3 water, Mix & pump 47 tonnes (43.1m3 slurry @ 130% excess) RFC cement + 2.0% CaC12 + 0.2% Anti Foam (6 sxs of Fed Seal) @ 1740kg/m3.
23:00	0.75	23.75	23:45	12	RUN CASING AND CEMENT				Lost returns while pumping cement, slow pump rate to 0.50m3 rate and after approximately 4-5m3 got returns back. Displace w/26m3 of water, When cement came to surface had 19m3 left to pump and lost returns, slow rate to 0.50m3 got returns 10m3 left.
23:45	0.25	24.00	00:00	7	RIG SERVICE				RIG SERVICE

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Gel-Chem	21:00	639.00	1120.0	47	22.0	9.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.500	6.000	10.500	6.5	1.0	8.5	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
			0.000			
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		

Drill Strings

BHA #3, Drilling Assembly

Bit R... Drill Bit	Make	IADC Bit Drill	TFA (incl Noz) (mm²)
2RR 311.0mm, 1N616, JD63632	SMITH	-----	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m..)
	639.00		20.0

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	165.0		8.92	
Drill pipe	1	106.6	70.0	9.42	
Drill pipe - Stands	81	101.6	70.0	502.21	
HWDP(4.0 IN)	8	102.0	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
BIT SUB	1	165.0	80.0	0.92	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (..)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	634.00	639.00	5.00	0.25	0.25	20.0	2.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
4,000	85	9,500	27,000	29,000	24,000	3,100.0	800.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)
Surface	1/31/2012	639.00

Comment

RUN 48 JOINTS OF 244.5mm/53.57kg/m/J55/LTC/NEW PRUDENTIAL CASING, TOTAL LENGTH = 639.44m, SHOE SET @ 639M/KB.

Mud Additive Amounts

Description	Cost (/unit)	Consumed
INVERT	2,412.99	150.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR N-9

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Casing Joints		244.5	J-55	53.574	47	639.44	-0.44	
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Float Collar		244.5	J-55	53.574	1	14.32	624.68	
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Casing Joints		244.5	J-55	53.574	1	13.89	625.11	
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Float Shoe		244.5	J-55	53.574	1	0.44	638.56	

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth Ali (TVD) (mKB) Original Hole - 638.8	
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Cold and windy	Temperature (°C) -16	Road Condition Fair	Hole Condition Good
Operations at Report Time Press test Manifold.		Operations Next Report Period Pressure Test BOP etc, Pick up Dir tools, RIH W/tools, Safety meeting Bop drill w/Crew, Drill Out cement float+shoe+5 meters, Leak off test, Drill 222mm Hole.	

Operations @ 06:00 Pressure Testing.	Operations Summary Rig out cementers and Wait on cement for six hours, Cut conductor and lift Diverter (cement was hard and at surface, had not dropped in annulus at all) Cut casing, cut flange off, Weld casing bowl, Let cool down. Pressure test casing bowl to 7000kpa 10 mins, okey. Safety meeting prior to Nipple up BOP, Held safety meeting prior to begin to Pressure test with Big Eagle Pressure Tester. Pressure test W/Big Eagle Pressure Tester, Manifold Valves, 1,400KPA Low / 21,000 KPA High 10 mins each.
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Remarks
No Accidents, Incidents or Enviromental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total on Location = 30m3.
Invert Delivered today = 0m3, Total on Location = 150m3

Daily Invert losses: 00.0 m3
Cumulative invert losses: 00.0 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	ProbU	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.50	0.50	00:30	12	RUN CASING AND CEMENT				HOLD PRESSURE AND TEAR OUT CEMENTERS
00:30	5.50	6.00	06:00	13	WAIT ON CEMENT				WAIT ON CEMENT, RIG OUT AND PREPARE TO LAY DOWN DIVERTER
06:00	1.00	7.00	07:00	25					CUT FLOW IT
07:00	5.00	12.00	12:00	25					CUT FLANGE OFF, WELD BOWL ON, LET COOL DOWN
12:00	3.00	15.00	15:00	25					LET BOWL COOL
15:00	0.25	15.25	15:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH CREWS, RIG MANAGER, HUSKY REP.
15:15	0.25	15.50	15:30	21	SAFETY MEETING				SAFETY MEETING REVEIW JSA NABORS ORIENTATION CHECKLIST WITH NEW HAND MARCO CONKLY
15:30	0.50	16.00	16:00	15	TEST B.O.P.				PRESSURE TEST CASING BOWL, 7000 KPA 10 MINS, OKEY.
16:00	5.00	21.00	21:00	14	NIPPLE UP B.O.P.				NIPPLE UP BOP
21:00	0.25	21.25	21:15	21	SAFETY MEETING				SAFETY MEETING WITH BIG EAGLE PRESSURE TESTER+RIG CREW+HUSKY REP
21:15	2.75	24.00	00:00	15	TEST B.O.P.				PRESSURE TEST W/BIG EAGLE PRESSURE TESTER, MANIOLD VALVES, 1,400KPA LOW / 21,000 KPA HIGH 10 MINS EACH.

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		

Cost Object Number US 51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 168,853.00	Cum Cost To Date 4,471,668.21
Daily Mud Cost	Mud Additive Cost To Date 403,294.58
Depth Start (mKB) 639.00	Depth End (mKB) 639.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 638.81	Depth End (TVD) (mKB) 638.81
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 472.00	Cum Pers Tot Hr (hrs) 3,062.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 206.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office	1	12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
NEW VENDOR	2	24.00
Big Eagle Limited Partnership	1	4.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/1/2012	2/2/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
# 2, Continental-Emasco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)



Well Name: LITTLE BEAR N-9

Drill Strings

Bit R...	Drill Bit	Make	IADC Bit Duit	TFA (incl Noz) (mm²)
Nozzles (mm)			String Length (m)	String Wt (daN)
				BHA ROP (m...

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
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Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time	Int ROP (m/hr)	Q (flow) (m³/min)
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
Q (g in) (m³/min)	T (In) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
Comment				

Casing Strings

Casing Description	Run Date	Set Depth (mKB)
Comment		

Casing Components

Item Description	Make	OD (mm)	Grade	WT (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)
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Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630		Surface Legal Location 300N96500126300		License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)		Business Unit Canada Frontier - Exploration	
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80	KB to Gnd (m) 5.28	
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)		Total Depth All (TVD) (mKB) Original Hole - 638.8	
Primary Wellbore Affected Original Hole, 300N96500126300					
Weather Warm + Light wind		Temperature (°C) 1	Road Condition Fair	Hole Condition Good	
Operations at Report Time Drill out shoe prior to leak off test.			Operations Next Report Period Drill 222mm Main Hole.		
Operations @ 06:00 Drill 222mm Main Hole @ 690m.					
Operations Summary Pressure test W/Big Eagle Pressure Tester, Pipe Rams, Blind Rams, HCR all at 1,400 kpa Low, 21,000 kpa High 10 mins each, Annular @ 1,400 kpa Low, 10,500 kpa High, for 10 mins each, Lower Kelly Cock, Inside Bop and related valves + flanges 1,400 kpa Low, 21,000 kpa High, had a few leaks which took extra time. Pressure tested the casing to 10,000 kpa for 10 mins, Check motor kills etc. Perform Accumulator F/T W/Rig Manager + Husky Rep, Pressure on Accumulator 20,200 kpa, Close Annular 22 sec - press loss = 4400 kpa, Close pipe rams 4 sec - press loss = 800 kpa, Open pipe rams 3 sec - press loss = 700 kpa, Open HCR 1.5 sec - press loss = 250 kpa, Total pressure lost = 6150 kpa, Remaining Pressure = 14,250 kpa, Start pump 1.30 mins to rebuild pressure, Precharge press = 7000 kpa, N2 Bottles = 4, 1900 psi, 2200 psi, 2250 psi, 2150 psi. Install wear bushing, Held safety meeting with crew + Directional Hands prior to pick up Phoenix directional tools, motor set @ 1.50 deg. Run in the hole with Bit #3 + Directional tools to 619m, Tagged cement @ 619m/KB, Rig to + displace to invert, Drill out cement Float and shoe, Csg shoe @ 639m. Held bop drill safety meeting with Rig Crew + Rig Manager + Husky Rep. Drill 222mm Hole F/639m TO/642m.					

Remarks

No Accidents, Incidents or Enviromental Concerns.

A floorhand had first aid and medical aid knee injury incident on January 31/12. Incident classification will be confirmed.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:

Base Oil Delivered today = 0m3, Total on Location = 30m3.

Invert Delivered today = 0m3, Total on Location = 150m3

Daily invert losses: 00.0 m3

Cumulative invert losses: 00.0 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	7.00	7.00	07:00	15	Test BOP				RIG UP TO PRESSURE TEST BOPS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	4.50	11.75	11:45	15	TEST B.O.P.				PRESSURE TEST BOPS
11:45	0.25	12.00	12:00	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS 6 SEC C/O
12:00	2.00	14.00	14:00	15	TEST B.O.P.				PRESS TEST BOP. PIPE,BLIND RAM,HCR 1400KPA LOW,21000KPA HIGH, ANNULAR 1400KPA LOW,10500HIGH, MANIFOLD,LOWER KELLY COCK,INSIDE BOP AND RELATED VALVES 7000KPA LOW 21000KPA HIGH, ACCUMULATOR F/T PREFORME W/RIG MANAGER+HUSKY REP PRESS TEST CSG FOR 10MINS
14:00	0.50	14.50	14:30	25					INSTALL WEAR BUSHING
14:30	0.25	14.75	14:45	21	SAFETY MEETING				SAFETY MEETING WITH DIR PRIOR TO PICK UP TOOLS.
14:45	3.25	18.00	18:00	20	DIR. WORK				HANDLE DIRECTIONAL TOOLS SET MOTOR DOWN, SCRIBE, ORIENT MAKE UP BIT
18:00	0.25	18.25	18:15	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 8 SEC C/O
18:15	0.75	19.00	19:00	6	TRIPS				RUN IN THE HOLE

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 118,678.00	Cum Cost To Date 4,590,346.21
Daily Mud Cost	Mud Additive Cost To Date 403,294.58
Depth Start (mKB) 639.00	Depth End (mKB) 642.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 3.00	
Depth Start (TVD) (mKB) 638.81	Depth End (TVD) (mKB)
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 3,566.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 207.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office	1	12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
NEW VENDOR	2	24.00
Big Eagle Limited Partnership	1	12.00
Baker Atlas	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/2/2012	2/3/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp.)	Eff (%)
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd Yes	Strokes (sp.)	Eff (%)
1,266		47	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
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Well Name: LITTLE BEAR N-9

Time Log								
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #
19:00	0.25	19.25	19:15	21	SAFETY MEETING			
19:15	1.75	21.00	21:00	6	TRIPS			
21:00	0.50	21.50	21:30	5	COND MUD & CIRC			
21:30	2.00	23.50	23:30	2	DRILL			
23:30	0.25	23.75	23:45	21	SAFETY MEETING			
23:45	0.25	24.00	00:00	2	DRILL			

Last 5 Formations		
Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
Invert	23:45	642.00	1100.0	34	6.0	2.500	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
2.000	3.000	5.500				7.3	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
	80.0	20.0	222,627.998			2000.0	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)			
	0.00	0.00	124.00	56.00			

Drill Strings

BHA #4, Drilling Assembly

Bit R... Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
3 222.0mm, MI516, JD1047	SMITH	-----	731
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
15.0/16.0/15.0/15.0	642.00		12.0

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	102.0	68.0	11.01	
Drill pipe - Stands	26	101.6	70.0	483.76	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
PUMP OUT SUB	1	157.0	58.0	1.02	
MONEL	1	165.0	73.0	9.41	
MONEL	1	167.0	73.0	9.48	
UBHO	1	164.0	73.0	0.92	
MUD MOTOR	1	167.0	55.0	8.98	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	639.00	642.00	3.00	0.25	0.25	12.0	1.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3,000	35	8,200	25,000	25,000	25,000	3,000.0	906.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m) 5.28	Total Depth All (TVD) (mKB) Original Hole - 949.7	
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Warm + Light wind	Temperature (°C) -4	Road Condition Fair	Hole Condition Good
Operations at Report Time Drill 222mm Main Hole w/Directional Tools.		Operations Next Report Period Drill 222mm Main Hole.	
Operations @ 06:00 Drill 222mm Main Hole @ 1038m.			
Operations Summary Drill 222mm Hole F/642m TO/644m, Circulate clean hole for 15 minutes, Pull back to casing shoe at 639m/KB. Perform Leak off Test with Big Eagle Pressure Truck, went up to 7000kpa formation did not break (use 22 kpa/m). Went back to drilling Drill 222mm Hole w/Phoenix Directional tools F/644m TO/950m/KB. Held Drills/Bop, with HSE Supervisor, Rig Crews, Rig Managers, Husky Reps, man down and shut in procedures discussed. Also held safety crew change meetings with both crews, Rig Managers+Husky Reps.			

Remarks

No Accidents, Incidents or Environmental Concerns.

A floorhand had first aid and medical aid knee injury incident on January 31/12. Incident classification will be confirmed.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:

Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 63m3

Daily Invert losses: 2.6 m3
Cumulative Invert losses: 2.6 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.50	0.50	00:30	2	DRILL				DRILL 222MM HOLE FR 642M TO 644M
00:30	0.25	0.75	00:45	5	COND MUD & CIRC				CIRCULATE TO CLEAN HOLE PRIOR TO LEAK OFF TEST
00:45	1.25	2.00	02:00	15	TEST B.O.P.				PERFORM LEAK OFF TEST W/ BIG EAGLE PRESSURE TESTER
02:00	3.00	5.00	05:00	2	DRILL				DRILL 222MM HOLE FROM 644M TO 680M
05:00	0.25	5.25	05:15	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 3 SEC C/O
05:15	1.75	7.00	07:00	2	DRILL				DRILL 222MM HOLE FR 680M-TO-708M
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE, BOTH CREWS, RIG MANAGERS, HUSKY REPS.
07:15	0.25	7.50	07:30	21	SAFETY MEETING				DRILLS/BOP, WITH HSE H2S SUPERVISOR, CREW, RIG MANAGER, HUSKY REP, MAN DOWN AND SHUT IN PROCEDURES DISCUSSED
07:30	3.50	11.00	11:00	2	DRILL				DRILL 222 MM HOLE FR 708M-TO-771M
11:00	1.00	12.00	12:00	20	DIR. WORK				ACCUM.DIRECTIONAL SURVEY TIME AND SYNC GAMMA AND CONNECTIONS
12:00	2.75	14.75	14:45	2	DRILL				DRILL 22MM HOLE FR 771M-TO-810M
14:45	0.25	15.00	15:00	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 3 SEC C/O
15:00	4.00	19.00	19:00	2	DRILL				DRILL 22MM HOLE FR/ 810M-TO- 865M
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
19:15	3.00	22.25	22:15	2	DRILL				DRILL 222MM HOLE FR/ 865M-TO-950M

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date 1/27/2012 15:50
Daily Cost Total 293,022.91	Cum Cost To Date 4,830,369.12
Daily Mud Cost 9,414.69	Mud Additive Cost To Date 412,709.27
Depth Start (mKB) 642.00	Depth End (mKB) 950.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 308.00	
Depth Start (TVD) (mKB) 641.80	Depth End (TVD) (mKB) 949.71
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 516.00	Cum Pers Tot Hr (hrs) 4,082.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 208.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office	1	12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Denali Oilfield Services	2	24.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
NEW VENDOR	2	24.00
Big Eagle Limited Partnership	1	12.00
Baker Atlas	2	24.00
Baker Atlas	2	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/3/2012	2/4/2012

Rigs	
Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
			203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No		
# 2, Continental-Emeco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
			229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
2,100	Yes	60	95

Mud Additive Amounts

Description	Cost (unit)	Consumed
VERSACOAT HF	900.76	2.0
VERSAMUL	862.55	1.0
OPTISEAL III	70.20	13.0
LIME	12.13	50.0
FED WATE (BARITE)	15.57	336.0

Well Name: LITTLE BEAR N-9

Time Log								
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #
22:15	1.75	24.00	00:00	20	DIR. WORK			
DIRECTIONAL SURVEYS ACCUMULATED TIME AND SYNC FOR GAMMA AND CONNECTIONS								

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
INVERT	22:00	945.00	1120.0	37	7.0	3.000	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
2.500	4.500	7.500				8.3	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
	80.0	20.0	242,164.000			816.0	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)			
	2.60	0.00	106.40	71.00			

Drill Strings					
BHA #4 Drilling Assembly					
Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)	
3	222.0mm, MI516, JD1047	SMITH	-----	731	
Nozzles (mm)	15.0/15.0/15.0/16.0		String Length (m)	String Wt (daN)	BHA ROP (m)
			950.00		16.6

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	167.0	68.0	4.16	
Drill pipe - Singles	1	101.6	70.0	9.40	
Drill pipe - Stands	43	101.6	70.0	789.21	
HWD (4.0 IN)	8	102.0	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
PUMP OUT SUB	1	157.0	58.0	1.02	
MONEL	1	165.0	73.0	9.41	
MONEL	1	167.0	73.0	9.48	
UBHO	1	164.0	73.0	0.92	
MUD MOTOR	1	167.0	55.0	8.98	

Drilling Parameters							
Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	642.00	950.00	311.00	18.50	18.75	16.6	1.450
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
5,000	40	9,700	26,000	28,000	24,000	6,500.0	950.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surt Ann) (kPa)	T (surt ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ				
Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
Comment				

Casing Strings		
Casing Description	Run Date	Set Depth (mKB)
Comment		

Casing Components								
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...

Survey Data			
MD (mKB)	incl (°)	Azm (°)	TVD (mKB)
850.33	0.60	155.70	850.06
878.10	0.50	97.70	877.82
906.16	1.00	73.00	905.88
934.26	1.10	83.20	933.98
962.08	1.20	79.20	961.79

Last 5 Formations		
Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)	
Max Nominal OD (mm)	244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahar Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1273.7	

Primary Wellbore Affected Original Hole, 300N96500126300	Weather Calm	Temperature (°C) -21	Road Condition Fair	Hole Condition Good
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Operations at Report Time Drill 222mm Main Hole w/Directional Tools.	Operations Next Report Period Drill 222mm Main Hole.
Operations @ 06:00 Drill 222mm Main Hole @ 1370m.	Operations Summary Drill 222mm Hole w/Phoenix Directional tools F/950m TO/1274m/KB. Held safety crew change meetings with both crews, Rig Managers+Husky Reps.

Remarks
No Accidents, Incidents or Environmental Concerns.
A floorhand had first aid and medical aid knee injury incident on January 31/12. Incident classification will be confirmed.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 51m3

Daily invert losses: 9.6 m3
Cumulative invert losses: 12.2 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction	
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	4.75	4.75	04:45	2	DRILL				DRILL 200mm FR 950M TO 1020M
04:45	0.25	5.00	05:00	7	RIG SERVICE				RIG SERVICE F/T BAG 8 SECOND C/O
05:00	1.00	6.00	06:00	2	DRILL				DRILL 200mm HOLE FR 1020M TO 1050M
06:00	1.00	7.00	07:00	20	DIR. WORK				ACCUMULATED SURVEYS, SYNC GAMMA, CONNECTIONS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
07:15	3.75	11.00	11:00	2	DRILL				DRILL 200mm HOLE FR 1050M TO 1115M
11:00	1.00	12.00	12:00	20	DIR. WORK				ACCUMULATED SURVEYS, SYNC GAMMA, CONNECTIONS
12:00	5.75	17.75	17:45	2	DRILL				DRILL 222mm HOLE FR/1115M-TO- 1208M
17:45	0.25	18.00	18:00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 7 SEC C/O
18:00	1.00	19.00	19:00	20	DIR. WORK				ACCUM SURVEYS, SYNC GAMMA, CONNECTIONS
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
19:15	4.00	23.25	23:15	2	DRILL				DRILL 222mm HOLE FR 1208M -TO-1274M
23:15	0.75	24.00	00:00	20	DIR. WORK				ACCUM SURVEYS, SYNC GAMMA, CONNECTIONS

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	23:45	1,274.00	1180.0	39	10.0	3.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
2.500	5.000	8.000				11.2
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	83.0	17.0	256,266.000			
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	5.60	4.00	87.60	80.20		

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 156,549.36	Cum Cost To Date 4,986,918.48
Daily Mud Cost 12,176.36	Mud Additive Cost To Date 424,885.63
Depth Start (mKB) 950.00	Depth End (mKB) 1,274.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 324.00	
Depth Start (TVD) (mKB) 1,273.65	Depth End (TVD) (mKB)
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 456.00	Cum Pers Tot Hr (hrs) 4,538.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 209.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Husky Office		12.00
MI Swaco	1	12.00
Phoenix Technology Services LP	3	36.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Denail Oilfield Services		
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas		
Baker Hughes	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/4/2012	2/5/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	203.0
152.0			
Uner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
2,600	Yes	55	95
# 2, Continental-Emasco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	229.0
152.0			
Uner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
2,600	Yes	55	95

Mud Additive Amounts

Description	Cost (Unit)	Consumed
VERSACOAT HF	900.76	1.0
VERSAMUL	862.55	2.0
TRUVIS	182.47	8.0
LIME	12.13	50.0
OPTISEAL III	70.20	53.0
FED WATE (BARITE)	15.57	252.0

Well Name: LITTLE BEAR N-9

Drill Strings

BHA #4, Drilling Assembly

Bit R	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm²)
3	222.0mm, MI516, JD1047	SMITH	-----	731
Nozzles (mm)	15.0/15.0/15.0/16.0		String Length (m)	String Wt (daN)
			1,274.00	BHA ROP (m...)
				16.7

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	167.0	68.0	4.19	
Drill pipe - Singles	1	101.6	70.0	9.23	
Drill pipe - Stands	120	101.6	70.0	1,113.35	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
PUMP OUT SUB	1	157.0	58.0	1.02	
MONEL	1	165.0	73.0	9.41	
MONEL	1	167.0	73.0	9.48	
UBHO	1	164.0	73.0	0.92	
MUD MOTOR	1	167.0	58.0	8.98	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original	950.00	1,274.00	635.00	19.25	38.00	16.8	1.450
Hole, 300N9650...							
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
7,000	42	11,500	34,000	36,000	32,000	6,500.0	1,000.0
Q (g in) (m³/min)	T (Inj) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,240.09	0.80	45.10	1,239.75
1,249.31	0.80	25.20	1,248.97
1,258.51	0.60	14.20	1,258.16
1,267.74	0.30	291.20	1,267.39
1,277.24	0.70	249.00	1,276.89

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5



Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)	KB to Gnd (m) 5.28
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1573.6
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Windy	Temperature (°C) -18	Road Condition Fair	Hole Condition Good
Operations at Report Time Drill 222mm Main Hole w/Directional Tools.		Operations Next Report Period Drill 222mm Main Hole to core point, Circ bttms up, Wiper trip 10 stds, Circulate bttms up, POOH to P/U Core Barrels.	

Operations @ 06:00 Drill 222mm Main Hole @ 1638m.	Operations Summary Drill 222mm Hole w/Phoenix Directional tools F/1274m TO/1574m/KB. Held safety crew change meetings with both crews, Rig Managers+Husky Reps.
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Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 60m3, Total at Tank Farm = 90m3

Daily invert losses: 6.2 m3
Cumulative invert losses: 18.4 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office On Call	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-990-5548
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Perlard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	3.50	3.50	03:30	2	DRILL				DRILL 222mm FR 1274M TO 1333M
03:30	0.25	3.75	03:45	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 3 SECOND C/O
03:45	2.00	5.75	05:45	2	DRILL				DRILL 222mm HOLE FR1333M TO 1380M
05:45	1.25	7.00	07:00	20	DIR. WORK				ACCUM DIRECTIONAL SURVEYS, SYNC GAMMA, CONNECTIONS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
07:15	3.75	11.00	11:00	2	DRILL				DRILL 222mm HOLE FR/ 1380M-TO- 1449M
11:00	0.25	11.25	11:15	21	SAFETY MEETING				SAFETY MEETING WITH STEWART (HUSKY) RIG CREW, ANDREWS TRUCKING PRIOR TO UNLOADING CASING
11:15	0.75	12.00	12:00	20	DIR. WORK				ACCUM DIR.SURVEYS,SYNC GAMMA, AND CONNECTIONS
12:00	2.00	14.00	14:00	2	DRILL				DRILL 222mm HOLE FR 1449M-TO- 1470M
14:00	0.25	14.25	14:15	21	SAFETY MEETING				DRILLS / BOP, WALK AROUND ROUTE, MAN DOWN DRILL,
14:15	0.50	14.75	14:45	25					H2S ALARM (EQUIPMENT FAILURE)
14:45	3.25	18.00	18:00	2	DRILL				DRILL 222mm HOLE FR/1470M-T.O-1514M
18:00	0.25	18.25	18:15	7	RIG SERVICE				RIG SERVICE F/T PIPERAMS 3 SECOND C/O
18:15	0.75	19.00	19:00	20	DIR. WORK				ACCMU DIRECTIONAL SURVEYS AND SYNC GAMMA, CONNECTIONS
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
19:15	4.25	23.50	23:30	2	DRILL				DRILL 200mm HOLE FROM 1514M TO 1574M

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date 1/27/2012 15:50
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 262,562.81	Cum Cost To Date 5,262,758.06
Daily Mud Cost 134,344.81	Mud Additive Cost To Date 559,230.44
Depth Start (mKB) 1,274.00	Depth End (mKB) 1,574.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 300.00	
Depth Start (TVD) (mKB) 1,573.58	Depth End (TVD) (mKB) 1,770.00
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 516.00	Cum Pers Tot Hr (hrs) 5,054.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 210.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Phoenix Technology Services LP	3	36.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	2	12.00
NEW VENDOR	3	36.00
NEW VENDOR	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/5/2012	2/6/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp.)	Eff (%)
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd Yes	Strokes (sp.)	Eff (%)
2,700		56	95

Mud Additive Amounts

Description	Cost (Unit)	Consumed
VERSAMOD	900.73	1.0
TRUVIS	162.47	5.0
LIME	12.13	5.0
INVERT	2,172.51	60.0
OPTISEAL iii	70.20	13.0
FED WATE (BARITE)	15.57	84.0



Well Name: LITTLE BEAR N-9

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
23:30	0.50	24.00	00:00	20	DIR. WORK				ACCUM DIRECTIONAL SURVEYS AND SYNC GAMMA CONNECTIONS

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	23:45	1,574.00	1195.0	40	10.0	3.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.000	6.000	9.500				12.8
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Slab (V)
	82.0	18.0	243,924.007			713.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	4.20	2.00	128.00	93.50		

Drill Strings

BHA #4, Drilling Assembly

Bit R - Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm²)
3 222.0mm, MI516, JD1047	SMITH	-----	731
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
15.0/16.0/15.0/15.0	1,574.00		16.5

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	167.0	68.0	7.48	
Drill pipe - Singles	1	101.6	70.0	9.24	
Drill pipe - Stands	76	101.6	70.0	1,410.05	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
PUMP OUT SUB	1	157.0	58.0	1.02	
MONEL	1	165.0	73.0	9.41	
MONEL	1	167.0	73.0	9.48	
UBHO	1	164.0	73.0	0.92	
MUD MOTOR	1	167.0	58.0	8.98	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,274.00	1,574.00	935.00	18.75	56.75	16.0	1.450
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
5,000	42	12,156	38,000	40,000	36,000	8,000.0	1,000.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,545.86	1.50	109.80	1,545.44
1,555.21	1.30	107.90	1,554.79
1,564.45	1.00	98.90	1,564.03
1,573.66	1.00	100.80	1,573.24
1,574.00	1.00	100.80	1,573.58

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)
244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630		Surface Legal Location 300N96500126300		License No. 463		State/Province Northwest Territories	
Sour Class Sweet		ERP Required No		Lease Classification TH (C)		Business Unit Canada Frontier - Exploration	
Initial Ground Elevation (m) 253.00		Cut/Fill (m) 0.52		Ground Elev. (m) 253.52		KB Elevation (m) 258.80	
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)		Total Depth All (TVD) (mKB) Original Hole - 1669.6			
Primary Wellbore Affected Original Hole, 300N96500126300							
Weather Light Wind		Temperature (°C) -18		Road Condition Fair		Hole Condition Good	
Operations at Report Time Laydown Directional Tools.				Operations Next Report Period P/U Core Barrels, RIH W/Core Barrels, Cut approximately 36m of core.			
Operations @ 06:00 RIH W/Core Barrels.		Operations Summary Drill 222mm Hole w/Phoenix Directional tools F/1574m TO/1645mKB. Control drill F/1645m TO/1670m where core point was picked. Circulate & cond hole work pipe, Wiper trip to casing shoe @ 639m and back to bottom 1670m, hole in good condition. Circulate bottoms up and clean hole prior to trip out of the hole with the directional tools. Held safety crew change meetings with both crews, Rig Managers+Husky Reps.					
Remarks No Accidents, Incidents or Environmental Concerns.							
Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.							
Tank Farm: Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3. Invert Delivered today = 0m3, Total at Tank Farm = 86m3							
Daily invert losses: 3.3 m3 Cumulative invert losses: 21.7 m3							
Daily Contacts							
Type	Contact Name	Title	Mobile				
Office	Kim Richardson	DR Superintendent	403-542-1059				
Office	Goly Zilabi	DR Eng	403-462-8021				
Office	Sandeep Randhawa	DR Eng	403-519-5660				
Office	Darren Brown	Construction Super					
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027				
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160				
Rig Manager	Troy Preuss	Rig Manager					
Time Log							
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Problem Time (hrs)	Problem Ref #
00:00	2.50	2.50	02:30	2	DRILL		
DRILL 200mm HOLE FR 1574M TO 1602M							
02:30	0.25	2.75	02:45	7	RIG SERVICE		
RIG SERVICE F/T PIPE RAMS 3 SECONDS C/O							
02:45	3.50	6.25	06:15	2	DRILL		
DRILL 200mm HOLE FR 1602M TO 1651M							
06:15	0.75	7.00	07:00	20	DIR. WORK		
ACCUM DIRECTIONAL SURVEYS, SYNC GAMMA, CONNECTIONS							
07:00	0.25	7.25	07:15	21	SAFETY MEETING		
CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.							
07:15	2.75	10.00	10:00	2	DRILL		
DRILL 222mm HOLE FR 1651M-TO-1670M							
10:00	2.00	12.00	12:00	5	COND MUD & CIRC		
CIRCULATE UP A SAMPLE TO PICK CORE POINT, CIRCULATE PREP TO TRIP							
12:00	5.75	17.75	17:45	6	TRIPS		
WIPER TRIP TO CASING SHOE @ 639m FLOW CHECKS AS REQUIRED 1659M, 1567M, 8832M630M HOLE FILL VOLUMES							
17:45	0.25	18.00	18:00	7	RIG SERVICE		
RIG SERVICE F/T ANNULAR 8 SEC C/O							
18:00	1.00	19.00	19:00	5	COND MUD & CIRC		
CIRCULATE BOTTOMS UP TRIP GAS&COND HOLE							
19:00	0.25	19.25	19:15	21	SAFETY MEETING		
CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.							
19:15	0.25	19.50	19:30	5	COND MUD & CIRC		
CIRCULATE COND HOLE & WORK PIPE							
19:30	0.75	20.25	20:15	6	TRIPS		
P.O.O.H W/DIRECTIONAL TOOLS, FLOW CHECK 1659M, 1557M,							
20:15	0.25	20.50	20:30	21	SAFETY MEETING		
SAFETY MEETING NABORS SAFETY HAND MEETING							

Cost Object Number US-51822-EX-01-DR-ID		Orig AFE Sup Am 12,997,003.00	
Primary Job Type Initial Drilling			
Start Date 1/20/2012		End Date	
Final Status		Spud Date 1/27/2012 15:50	
Daily Cost Total 306,521.66		Cum Cost To Date 5,522,632.50	
Daily Mud Cost 4,948.66		Mud Additive Cost To Date 564,179.10	
Depth Start (mKB) 1,574.00		Depth End (mKB) 1,670.00	
Last Casing String Surface, 639.00mKB			
Depth Progress (m) 96.00			
Depth Start (TVD) (mKB) 1,573.58		Depth End (TVD) (mKB) 1,669.56	
Target Formation Canol		Est Total Depth (mKB) 1,770.00	
Personnel Total Hours (hrs) 462.00		Cum Pers Tot Hr (hrs) 5,516.00	
Time Log Total Hours (hrs) 24.00		Problem Time Hours (hrs)	
Problem Time (%)		Cum Problem Time (%)	
Days LTI (days) 211.00		Days RI (days)	
Personnel Log			
Company	Count	Tot Time (hrs)	
Nabors Drilling Limited	15	180.00	
MI Swaco	1	12.00	
Phoenix Technology Services LP	3	36.00	
Apex Oilfield Services 2000 Inc.	1	12.00	
NEW VENDOR	1	12.00	
Hessdorfer Consulting Ltd.	1	12.00	
Continental Laboratories	2	24.00	
Mcgrath Resource Consulting Ltd.	1	12.00	
Horizon North Camps & Cat	5	60.00	
NEW VENDOR	2	24.00	
NEW VENDOR	1	12.00	
NEW VENDOR	1	12.00	
NEW VENDOR	2	24.00	
Baker Atlas	2	24.00	
Nabors Drilling Limited	1	6.00	
Safety Check Summary			
Type	Last Date	Next Date	
Safety Meeting	2/6/2012	2/7/2012	
Rigs			
Contractor Nabors Drilling		Rig Number 23	
Rig Supervisor Troy Preuss		Phone Mobile	
Rig Release Date			
Mud Pumps			
# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
152.0		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
No			
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
229.0			
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
2,600		52	95
Mud Additive Amounts			
Description	Cost (/unit)	Consumed	
VERSAMUL	862.55	1.0	
TRUVIS	162.47	1.0	
FED WATE (BARITE)	15.57	252.0	
Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,629.23	1.40	194.30	1,628.80
1,638.88	1.60	196.80	1,638.45
1,648.08	1.60	198.10	1,647.64
1,655.00	1.50	201.40	1,654.56
1,670.00	1.50	201.40	1,669.56

Well Name: LITTLE BEAR N-9

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
20:30	3.50	24.00	00:00	6	TRIPS				TRIP OUT OF HOLE W/DIRECTIONAL TOOLS, FLOW CHECKS @915M, 160M

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	19:30	1,670.00	1200.0	44	12.0	3.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.500	7.000	10.500				13.3
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	82.0	18.0	238,794.998			713.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	2.00	1.30	123.30	95.00		

Drill Strings

BHA #4, Drilling Assembly

Bit R	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm²)
3	222.0mm, MI516, JD1047	SMITH	2-1-WT-A-X-0.00-NO-BHA	731
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m/min)	
15.0/16.0/15.0/15.0	1,670.00		15.7	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	167.0	68.0	10.16	
Drill pipe - Singles	1	101.6	70.0	9.69	
Drill pipe - Stands	81	101.6	70.0	1,502.92	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.49	
JARS-HYD	1	165.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.74	
PUMP OUT SUB	1	157.0	58.0	1.02	
MONEL	1	165.0	73.0	9.41	
MONEL	1	167.0	73.0	9.48	
UBHO	1	164.0	73.0	0.92	
MUD MOTOR	1	167.0	58.0	8.98	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (hrs)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,574.00	1,670.00	1,031.00	8.75	65.50	11.0	1.450
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
2,000	42	11,000	38,000	42,000	36,000	4,500.0	1,000.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bit) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³)	Q (g return) (m³)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1669.6	

Primary Wellbore Affected
Original Hole, 300N96500126300

Weather Cold and windy	Temperature (°C) -21	Road Condition Fair	Hole Condition Good
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Operations at Report Time
Make up core barrels for second run of 54m.

Operations Next Report Period
Trip out with core, check masked up for H2S, retrieve core, Make up second run for 54m, Trip in with core barrels, circ bottoms up drop ball, Cut core, circ bottoms up, Trip out.

Operations @ 06:00
Handle Core Barrels.

Operations Summary
Trip out of the hole with the directional tools+Laydown Directional tools, Flow check out of the hole and function Blind Rams 5 sec close, Held safety meeting with rig crew+core hands+Husky Rep prior to and P/U Core Barrels. Trip in the hole with First run for Core Barrels, Did all flow checks tripping in to 1632m, Wash in F/1632m To/1669m (hole condition good and did not predict this), Circulate bottoms up, Tag Bottom @ 1670m Drop Ball and cut core #1-89mm F/1670m TO/1706m, Pick up break free, Circulate bottoms up sample and bottoms up gas (6.76% max, dropped off to 1.8%). Trip out of the hole slowly doing all flow checks + monitoring well for swabbing while tripping (okey). Held safety crew change meetings with both crews, Rig Managers+Husky Reps.

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADiO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 86m3

Daily invert losses: 1 m3
Cumulative invert losses: 22.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.50	0.50	00:30	6	TRIPS				TRIP OUT OF HOLE, FLOW CHECK OUT OF HOLE / TRIP RECORD MEAS 6.73 CALC 5.34 DIFF 1.39m3
00:30	0.25	0.75	00:45	21	SAFETY MEETING				SAFETY MEETING WITH DIRECTIONAL HANDS
00:45	1.50	2.25	02:15	20	DIR. WORK				LAYDOWN DIRECTIONAL TOOLS / F/T BLIND RAMS 4/4 C/O
02:15	0.25	2.50	02:30	21	SAFETY MEETING				SAFETY MEETING WITH CORE HANDS, HUSKY REP
02:30	3.75	6.25	06:15	4	CORING				PICK UP CORE BARRELS
06:15	0.75	7.00	07:00	6	TRIPS				TRIP IN HOLE WITH CORE BARRELS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
07:15	1.75	9.00	09:00	6	TRIPS				TRIP IN HOLE TO 639m, FLOW CHECK
09:00	0.25	9.25	09:15	21	SAFETY MEETING				SAFETY MEETING PRIOR TO SLIP AND CUT, REVEIW JSA
09:15	0.50	9.75	09:45	9	CUT OFF DRILLING LINE				SLIP/CUT DRILLING LINE
09:45	2.25	12.00	12:00	6	TRIPS				CONTINUE TO TRIP IN HOLE, STRAP IN, FLOW CHECK AT 639M
12:00	2.50	14.50	14:30	6	TRIPS				TRIP IN WITH CORE BARRELS, STRAP IN, 1502.92M IN TALLY/ STEEL LINE STAP 1502.74M /DIFF OF .18M FILL PIPE 1200M FLOW CHECK

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date 1/27/2012 15:50
Final Status	Spud Date
Daily Cost Total 114,562.94	Cum Cost To Date 5,638,635.44
Daily Mud Cost 653.94	Mud Additive Cost To Date 564,833.04
Depth Start (mKB) 1,670.00	Depth End (mKB) 1,706.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 36.00	
Depth Start (TVD) (mKB) 1,669.56	Depth End (TVD) (mKB)
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 492.00	Cum Pers Tot Hr (hrs) 6,008.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 212.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Phoenix Technology Services LP	3	36.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	2	24.00
Schlumberger Canada Ltd.	3	36.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/7/2012	2/8/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	203.0
Liner Size (mm) 152.0	Vol/Stk OR (m³/stk)		
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	229.0
Liner Size (mm) 152.0	Vol/Stk OR (m³/stk)		
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
1,330	Yes	45	95

Mud Additive Amounts

Description	Cost (unit)	Consumed
FED WATE (BARITE)	15.57	42.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Well Name: LITTLE BEAR N-9

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
14:30	0.75	15.25	15:15	5	COND MUD & CIRC				WASH FR 1632M-TO-1669N, CIRCULATE BOTTOMS UP
15:15	3.75	19.00	19:00	4	CORING				CORING TAG BOTTOM DROP BALL AND CUT CORE #1-89MM FR/1670M-TO- 1706M
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
19:15	0.25	19.50	19:30	4	CORING				CUT CORE TO/1706M
19:30	1.00	20.50	20:30	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP SAMPLE
20:30	3.50	24.00	00:00	6	TRIPS				P.O.O.H TO RECOVER CORE #1 FLOW CHECKS @ 1693M, 1601M, 916M

Hole Size (mm)	
Max Nominal OD (mm)	244.5

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
Invert	15:30	1,670.00	1200.0	47	13.0	4,000	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
3.500	7.000	11.500				13.3	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
	82.0	18.0	251,047.999			829.0	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)			
	1.00	0.00	121.30	96.00			

Drill Strings			
BHA #5, Drilling Assembly			
Bit R	Drill Bit	Make	IADC Bit Duit
4	222.0mm, BHC406C, <SN7>	HUGHES	-----
TFA (Incl Noz) (mm²)			
Nozzles (mm)		String Length (m)	String Wt (daN)
		1,706.00	9.0

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	0	167.0	68.0	11.83	
Drill pipe - Stands	83	101.6	70.0	1,541.02	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	64.0	2.15	
TOP SUB CORE BBL	1	171.0	64.0	2.90	
CORE BBL	1	171.0	137.0	9.14	
CORE BBL	3	171.0	137.0	27.42	

Drilling Parameters							
Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (hrs)	Int ROP (m/hr)	O (flow) (m³/min)
Original Hole, 300N9650...	1,670.00	1,706.00	36.00	4.00	4.00	9.0	1.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	60	8,050	40,000	42,000	38,000	6,000.0	500.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ			
Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)
			Incident Type
Comment			

Casing Strings		
Casing Description	Run Date	Set Depth (mKB)
Comment		

Casing Components							
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)
							TopConn T...

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1753.5	
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Cold and windy	Temperature (°C) -17	Road Condition Fair	Hole Condition Good
Operations at Report Time Cutting core @ 1754m.			
Operations Next Report Period Cut core to 1760m for 54m core, Circulate bottoms up, Trip out w/core #2, Handle core+cut, Make up core barrels, RIH W/run #3.			
Operations @ 06:00 Pull out of the hole with core #2 @ 350m.		Operations Summary Trip out of the hole slowly doing all flow checks + monitoring well for swabbing while tripping (okey). At surface Flow check+monitor hole, Held safety meeting with Rig Crew+Core Hands+Husky Rep+HSE Safety Hand Prior to any Handling of Core barrel. At this time core barrel was checked for H2S by HSE Safety Hand while being masked, Okey. While handling core barrels monitor well, Retrieve core, cut core #1. Safety meeting was held prior to making up Core Barrel run #2 for 54m core length, Make up inner core barrels, install jars etc. RIH W/core barrel run #2 and did all flow checks, Wash in last single, no problems+no fill, Circulate bottoms up and drop ball. Begin to Core F/1706m TO/1754m with no problems.	

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 86m3

Daily invert losses: 0.0 m3
Cumulative invert losses: 22.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
00:00	2.25	2.25	02:15	6	TRIPS				TRIP OUT OF HOLE, 20 METERS PER MINUTE FLOW CHECK @ 906M, AT TOOLS, cal 5.09 m3 - act 6.10 m3 = diff 1.01 m3
02:15	0.25	2.50	02:30	21	SAFETY MEETING				SAFETY MEETING WITH CORE HANDS, CHECK BARREL FOR H2S WITH HSE HAND PACKED UP, OKEY.
02:30	3.50	6.00	06:00	4	CORING				HANDLE CORE BARREL, RETRIEVE CORE, CUT CORE.
06:00	0.25	6.25	06:15	21	SAFETY MEETING				SAFETY MEETING WITH CORE HANDS ON PICKING UP MORE CORE BBL AND CORE SLEEVES
06:15	0.75	7.00	07:00	4	CORING				MAKE UP + PICK UP CORE TOOLS, RUN #2
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
07:15	0.25	7.50	07:30	21	SAFETY MEETING				SAFETY MEETING WITH BAKER PRIOR TO MAKING UP CORE BARRELS
07:30	2.00	9.50	09:30	4	CORING				MAKE UP INNER CORE BARRELS, INSTALL JARS AND CROSS OVER FLOAT SUB
09:30	2.50	12.00	12:00	6	TRIPS				TRIPS WITH CORE BRLS #2 (25 METERS PER MINUTE) FILL PIPE AND FLOW CHECK AT 639M, 1200 M
12:00	3.50	15.50	15:30	6	TRIPS				CONTINUE TO RUM IN HOLE WITH CORE # 2 25 METERS PER MINUTE FILL PIPE AND FLOW CHECK AT 1200M
15:30	0.75	16.25	16:15	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP PRIOR TO DROP BALL

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 178,639.82	Cum Cost To Date 5,783,525.26
Daily Mud Cost 1,961.82	Mud Additive Cost To Date 566,794.86
Depth Start (mKB) 1,706.00	Depth End (mKB) 1,754.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 48.00	
Depth Start (TVD) (mKB) 1,705.54	Depth End (TVD) (mKB) 1,753.53
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 6,512.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 213.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	2	24.00
NEW VENDOR	5	60.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/8/2012	2/9/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

<Pump Number?>, Continental-Em...

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0

Liner Size (mm)	Vol/Stk OR (m³/stk)

Pres (kPa)	Slow Spd No	Strokes (sp..)	Eff (%)

1, Gardner-Denver, PZ8

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		203.0

Liner Size (mm)	Vol/Stk OR (m³/stk)
152.0	

Pres (kPa)	Slow Spd No	Strokes (sp..)	Eff (%)

2, Continental-Emaco, F800

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0

Liner Size (mm)	Vol/Stk OR (m³/stk)
152.0	

Pres (kPa)	Slow Spd No	Strokes (sp..)	Eff (%)
1,271	Yes	39	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
FED WATE (BARITE)	15.57	126.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,754.00	1.50	201.40	1,753.53

Well Name: LITTLE BEAR N-9

Time Log

Start Time	End Time	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
16:15	2:75	19:00	19:00	4	CORING				DROP BALL AND PRESURE UP AND CUT CORE #2 FR/1706M-TO- 1725M
19:00	0:25	19:25	19:15	21	SAFETY MEETING				SAFETY MEETING HELD W/ BOTH CREWS FOR SHIFT CHANGE
19:15	0:25	19:50	19:30	7	RIG SERVICE				RIG SERVICE, FUNCTIONED PIPE RAMS(3 SEC)
19:30	0:25	19:75	19:45	21	SAFETY MEETING				DRILLS / BOP, ETC.S, HELD SOUR BOP DRILL W/ CREW, WELL SECURED IN 6 MINUTES
19:45	4:25	24:00	00:00	4	CORING				CORING, CUT CORE #2 F/1725m TO/1754m

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (cP)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	23:45	1,752.00	1250.0	45	14.0	4.000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.500	7.000	11.500				12.8
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	82.0	18.0	238,794.998			792.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	0.00	0.00	120.90	96.40		

Drill Strings

BHA #6, Drilling Assembly

Bit R. Drill Bit	Make	IADC Bit Drill	TFA (incl Noz) (mm²)
5RR 222.0mm, BHC406C, <SN7>	HUGHES	-----0.00--	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
	1,754.00		6.9

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	101.6	70.0	4.44	
Drill pipe - Stands	85	101.6	70.0	1,578.13	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	0.6	2.15	
TOP SUB CORE BBL	1	171.0	0.6	2.90	
Core Barrel	2	171.0	137.0	18.28	
Core Barrel	1	171.0	137.0	9.14	
Core Barrel	3	171.0	137.0	27.42	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (..	Int ROP (m³/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,706.00	1,754.00	48.00	7.00	7.00	6.9	1.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	55	9,350	40,000	42,000	38,000	6,200.0	575.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1759.5	KB to Gnd (m) 5.28
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Windy	Temperature (°C) -14	Road Condition Fair	Hole Condition Good
Operations at Report Time Circ bottoms up prior to Drop Ball and Cut Core #3		Operations Next Report Period Circ bottoms up, Drop ball, Cut core #3, Circ bottoms up, POOH W/Core #3+Retrieve.	
Operations @ 06:00 Cut Core # 3 @ 1800m / 40m cut.		Operations Summary Cut Core #2 F/1754m TO/1760m with no problems, Pick up break free, Circulate bottoms up sample and bottoms up gas, Trip out of the hole slowly doing all flow checks + monitoring well for swabbing while tripping (okey). At surface Flow check+monitor hole, Held safety meeting with Rig Crew+Core Hands+Husky Rep+HSE Safety Hand Prior to any Handling of Core barrel. At this time core barrel was checked for H2S by HSE Safety Hand while being masked, Okay. While handling core barrels monitor well, Retrieve core, cut core #2. Safety meeting was held prior to making up Core Barrel run #3 for 54m core length, Make up inner core barrels, install jars etc. RIH W/core barrel run #3 and did all flow checks, Wash in last single + kelly, no problems+no fill, Circulate bottoms up, Held safety crew change meetings with both crews, Rig Managers+Husky Reps.	

Remarks
No Accidents, 1 Incidents or Environmental Concerns.
Incident at camp Feb9 morning altercation between two Vac truck drivers for Hodgson's Contracting Inc.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 84m3

Daily invert losses: 1.0 m3
Cumulative invert losses: 23.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Perlard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.75	0.75	00:45	4	CORING				CORING, CUT CORE #2 1754M - 1760M
00:45	0.25	1.00	01:00	7	RIG SERVICE				RIG SERVICE, FUNCTIONED ANNULAR(9 SEC)
01:00	1.50	2.50	02:30	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE WELL CLEAN PRIOR TO TRIP
02:30	4.50	7.00	07:00	6	TRIPS				TRIP OUT FOR CORE #2, FLOW CHECK @ 1479M, PUMP WEIGHTED PILL, PULL 5 STANDS, FLOW CHECK @ 1655M, CONTINUE OUT, FLOW CHECKS @ 1196M, 736M, 367M, 202M.
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
07:15	1.25	8.50	08:30	6	TRIPS				TRIPS OUT OF HOLE W/CORE #2, HOLE FILL VOLUMES MEASURED 8.61M3.CALC 5.11M3,DIFF 3.5M3
08:30	0.25	8.75	08:45	21	SAFETY MEETING				SAFETY MEETING WITH CORE HANDS, CHECK BARREL FOR H2S WITH HSE HAND MASKED UP & ALL OK.
08:45	3.25	12.00	12:00	4	CORING				RECOVER CORE #2
12:00	3.50	15.50	15:30	4	CORING				CONTINUE TO RECOVER CORE #2 / RACK OUTER BARRELS IN DERRICK AND MAKE UP INNER BARRELS

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 472,036.94	Cum Cost To Date 6,255,562.20
Daily Mud Cost 653.94	Mud Additive Cost To Date 567,448.80
Depth Start (mKB) 1,754.00	Depth End (mKB) 1,760.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 6.00	
Depth Start (TVD) (mKB) 1,753.53	Depth End (TVD) (mKB) 1,759.53
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 480.00	Cum Pers Tot Hr (hrs) 6,992.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 214.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	2	24.00
Baker Atlas	3	36.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/9/2012	2/10/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# <Pump Number?>	Continental-Em...
Pwr (kW)	Stroke (mm)
	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)
Pres (kPa)	Slow Spd No
Strokes (sp)	Eff (%)
# 1, Gardner-Denver, PZ8	
Pwr (kW)	Stroke (mm)
	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)
Pres (kPa)	Slow Spd No
Strokes (sp)	Eff (%)
# 2, Continental-Emaco, F800	
Pwr (kW)	Stroke (mm)
	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)
Pres (kPa)	Slow Spd No
Strokes (sp)	Eff (%)
1,271	Yes
39	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
FED WATE (BARITE)	15.57	42.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,760.00	1.50	201.40	1,759.53

Well Name: LITTLE BEAR N-9

Time Log									
Start Time	End Time	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	ProbU	Problem Time (hrs)	Problem Ref #	Comment
15:30		0.25	15:45	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
15:45		0.50	16:25	6	TRIPS				TRIP IN, MAKE UP CORE BARREL RUN #3, RUN IN OUTER BARRELS
16:15		2.00	18:25	4	CORING				CORING, MAKE UP INNER BARRELS, CHECK LEAD
18:15		1.00	19:25	6	TRIPS				TRIP IN FOR CORE RUN #3 TO 281M
19:15		0.25	19:50	7	RIG SERVICE				RIG SERVICE, FUNCTIONED PIPE RAMS(3 SEC)
19:30		4.00	23:30	6	TRIPS				TRIP IN FOR CORE RUN #3 FR/ 281M, FLOW CHECK. FILL, BREAK CIRC @ 594M, 1201M,
23:30		0.25	23:45	7	RIG SERVICE				RIG SERVICE C/O ANNULAR 7 SEC
23:45		0.25	24:00	5	COND MUD & CIRC				FILL PIPE CIRCULATE BOTTOMS UP

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	23:45	1,760.00	1250.0	46	14.0	3.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.500	6.500	11.000				14.3
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
83.0	17.0	258.594				613.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	1.00	0.00	119.90	96.40		

Drill Strings

BHA #6, Drilling Assembly

Bit R. Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm²)
5RR 222.0mm, BHC406C, <SN?>	HUGHES	1-2-CT-S-X-0.00-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
	1,760.00		7.0

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	101.6	70.0	10.44	
Drill pipe - Stands	85	101.6	70.0	1,578.13	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	0.6	2.15	
TOP SUB CORE BBL	1	171.0	0.6	2.90	
Core Barrel	2	171.0	137.0	18.28	
Core Barrel	1	171.0	137.0	9.14	
Core Barrel	3	171.0	137.0	27.42	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,754.00	1,760.00	54.00	0.75	7.75	8.0	1.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	55	9,350	40,000	42,000	38,000	6,200.0	575.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...)	Q (g return) (m³/...)

BHA #7, Drilling Assembly

Bit R. Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm²)
6 222.0mm, BHC406C, 7134558	HUGHES	-----	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
	1,760.00		

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	101.6	68.0	10.00	
Drill pipe - Stands	85	101.6	70.0	1,578.13	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	64.0	2.15	
TOP SUB CORE BBL	1	171.0	64.0	2.90	
CORE BBL	2	171.0	137.0	18.28	
CORE BBL	1	171.0	137.0	9.14	
CORE BBL	3	171.0	137.0	27.42	

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)
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Hole Size (mm)

Max Nominal OD (mm) 244.5



Well Name: LITTLE BEAR N-9

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,760.00	1,760.00		0.00			
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
			40,000				
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bit) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
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Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)
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Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1813.5	KB to Gnd (m) 5.28
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Light Wind	Temperature (°C) -6	Road Condition Fair	Hole Condition Good
Operations at Report Time RIH W/Core barrel run #4.		Operations Next Report Period RIH W/Run #4, Circ btlms up, Drop ball, Cut Core, Circ btlms up, POOH W/Core #4.	
Operations @ 06:00 Circ btlms up prior to Cut core #4 F/1814m.		Operations Summary Wash in last single + kelly, no problems+no fill, Circulate bottoms up, Circulate bottoms up and drop ball. Begin to Core F/1760m TO/1814m. Pick up break free, Circulate bottoms up sample and bottoms up gas, Trip out of the hole slowly doing all flow checks + monitoring well for swabbing while tripping (okey). At surface Flow check+monitor hole, Held safety meeting with Rig Crew+Core Hands+Husky Rep+HSE Safety Hand Prior to any Handling of Core barrel. At this time core barrel was checked for H2S by HSE Safety Hand while being masked, Okey. While handling core barrels monitor well, Retrieve core #3. Safety meeting was held prior to making up Core Barrel run #4 for 54m core length, Make up inner core barrels, install jars and pump out sub etc. RIH W/core barrel run #4. Held safety crew change meetings with both crews, Rig Managers+Husky Reps.	

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 81m3

Daily invert losses: 0.0 m3
Cumulative invert losses: 23.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.75	0.75	00:45	3	REAMING				WASH FROM 1740M-1760M PICK UP ,HSE MASK UP AND CHECK AT SHAKER FOR GAS,
00:45	5.75	6.50	06:30	4	CORING				DROP BALL AND CUT CORE #3 FR/1760M-TO- 1814M
06:30	0.25	6.75	06:45	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 6 SEC C/O
06:45	0.25	7.00	07:00	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
07:00	0.25	7.25	07:15	4	CORING				CORING, BREAK OFF CORE #3, WORK STRING SLOWLY W/ PUMP OFF
07:15	2.00	9.25	09:15	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP SAMPLE, WELL CLEAN PRIOR TO PULLING CORE #3
09:15	2.75	12.00	12:00	6	TRIPS				TRIP OUT CORE #3, FLOW CHECK @ 1805M, PUMP WEIGHTED PILL, PULL 5 STANDS, FLOW CHECK @ 1710M, CONTINUE OUT TO 1043M, FLOW CHECKS @ 1250M
12:00	0.75	12.75	12:45	6	TRIPS				TRIP OUT CORE #3 1043M - 790M, FLOW CHECK @ 790M
12:45	0.25	13.00	13:00	7	RIG SERVICE				RIG SERVICE, FUNCTIONED PIPE RAMS(3 SEC)
13:00	2.75	15.75	15:45	6	TRIPS				TRIP OUT CORE #3 FR/ 790M, FLOW CHECKS @ 329M, 201M, OUT OF HOLE HOLE FILL VOLUMES MEASURED 9.77 CALCULATED 5.98M3 DIFF 3.79M3

Cost Object Number US-51822-EX-01-DR-ID	Ong AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 159,850.40	Cum Cost To Date 6,415,412.60
Daily Mud Cost 5,857.40	Mud Additive Cost To Date 573,306.20
Depth Start (mKB) 1,760.00	Depth End (mKB) 1,814.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 54.00	
Depth Start (TVD) (mKB) 1,759.53	Depth End (TVD) (mKB) 1,813.51
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 516.00	Cum Pers Tot Hr (hrs) 7,508.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 215.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
MI Swaco	1	12.00
Phoenix Technology Services LP	2	24.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	2	24.00
Baker Atlas	6	72.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/10/2012	2/11/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

<Pump Number?>, Continental-Ems...

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
Pres (kPa)	Slow Spd	Strokes (sp.. Eff (%)
	No	

1, Gardner-Denver, PZ8

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
	152.0	
Pres (kPa)	Slow Spd	Strokes (sp.. Eff (%)
	No	

2, Continental-Emsco, F800

Pwr (kW)	Rod Dia (mm)	Stroke (mm)
		229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
	152.0	
Pres (kPa)	Slow Spd	Strokes (sp.. Eff (%)
944	Yes	35 95

Mud Additive Amounts

Description	Cost (unit)	Consumed
VERSAMUL	862.55	1.0
VERSACOAT HF	900.76	2.0
TRUVIS	162.47	3.0
LIME	12.13	10.0

Well Name: LITTLE BEAR N-9

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
15:45	3.25	19.00	19:00	4	CORING				SAFETY MEETING WITH CORE HANDS, CHECK BARREL FOR H2S WITH HSE HAND MASKED UP & ALL OK.
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVER MEETING AND PRE TOUR SAFETY MEETING, W/BOTH CREWS+RIG MANAGERS+HUSKY REP.
19:15	4.25	23.50	23:30	4	CORING				HANDLE CORE BRLS SWITCH AROUND STABS,RACK 2 SNDS CORE BRLS,INSPECT BIT,RUN BRLS AND INSTALL INNER BRLS
23:30	0.50	24.00	00:00	6	TRIPS				RUN IN HOLE 25 MTRS PER MIN W/CORE BARREL RUN # 4

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	09:00	1,814.00	1280.0	46	13.0	4,000
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.500	7.000	12.500				14.8
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	83.0	17.0	253,210.992			593.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	0.00	0.00	120.90	95.40		

Drill Strings

BHA #7, Drilling Assembly

Bit R	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm³)
6	222.0mm, BHC406C, 7134558	HUGHES	1-1-WT-A-X-0.00-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,814.00		9.0	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	0	101.6	68.0	8.14	
Drill pipe - Stands	88	101.6	70.0	1,623.99	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	64.0	2.15	
TOP SUB CORE BBL	1	171.0	64.0	2.90	
CORE BBL	2	171.0	137.0	18.28	
CORE BBL	1	171.0	137.0	9.14	
CORE BBL	3	171.0	137.0	27.42	
*COPY*Kelly	1	101.6	68.0	10.00	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time ...	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N96500...	1,760.00	1,814.00	54.00	6.00	6.00	9.0	
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Bottom Torque
4	55	9,400	41,000	43,000	39,000	4,600.0	560.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...)	Q (g return) (m³/...)

BHA #8, Drilling Assembly

Bit R...	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm³)
7RR	222.0mm, BHC406C, 7134558	HUGHES	-----0.00--	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,814.00			

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Singles	1	101.6	70.0	7.12	
Drill pipe - Stands	88	101.6	70.0	1,633.99	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
BURST SUB	1	156.0	58.0	1.02	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	64.0	2.15	
TOP SUB CORE BBL	1	171.0	64.0	2.90	
CORE BBL	2	171.0	137.0	18.28	
CORE BBL	1	171.0	137.0	9.14	
CORE BBL	3	171.0	137.0	27.42	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time ...	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N96500...	1,814.00	1,814.00		0.00			
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Bottom Torque
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...)	Q (g return) (m³/...)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
Comment				

Mud Additive Amounts

Description	Cost (/unit)	Consumed
FED WATE (BARITE)	15.57	166.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,814.00	1.50	201.40	1,813.51

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lease Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1837.5	
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Calm	Temperature (°C) -14	Road Condition Fair	Hole Condition Good
Operations at Report Time M/U Motor+Bit etc, RIH.		Operations Next Report Period RIH W/Phoenix motor+PDC 222mm Bit, Drill 222mm Hole to TD, Circulate clean hole, Trip out to log.	
Operations @ 06:00 Tripping in the hole W/Motor + 222mm PDC Bit.		Operations Summary RIH W/core barrel run #4 to 849m, Pipe "U" tubing, mix pill continue to RIH, Wash in last single + kelly, no problems+no fill, Circulate bottoms up, Had HSE Safety hand check for H2S at shaker, Okay. Drop ball, Begin to Core F/1814m TO/1838m where core barrel Jammed off. Pick up break free, Circulate bottoms up and hole clean. Trip out of the hole slowly doing all flow checks + monitoring well for swabbing while tripping (okay). At surface Flow check+monitor hole, Held safety meeting with Rig Crew+Core Hands+Husky Rep+HSE Safety Hand Prior to any Handling of Core barrel. At this time core barrel was checked for H2S by HSE Safety Hand while being masked up, Okay. While handling core barrels monitor well, Retrieve core #4, 24m recovery. Laydown core barrels. Held all safety crew change meetings with both crews, Rig Managers+Husky Reps.	

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 81m3

Daily invert losses: 0.0 m3
Cumulative invert losses: 23.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction	
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	2.50	2.50	02:30	6	TRIPS				TRIPS IN HOLE FLOW CHECK AT 630M, 849M
02:30	1.00	3.50	03:30	5	COND MUD & CIRC				CIRCULATE MIX AND PUMP PILL DUE TO UTUBING
03:30	1.75	5.25	05:15	6	TRIPS				CONTINUE TO TRIP IN HOLE W/CORE BARREL RUN # 4
05:15	0.25	5.50	05:30	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 7 SEC C/O
05:30	0.75	6.25	06:15	5	COND MUD & CIRC				WASH IN FR/1799M-TO-1814M ,CIRCULATE UP A BOTTOMS UP, HSE HAND MASKED UP AND CHECKED AT SHAKER FOR GAS, OKEY, DROP BALL ,
06:15	0.50	6.75	06:45	4	CORING				CUT CORE #4 FR 1814M-TO 1819M
06:45	0.25	7.00	07:00	21	SAFETY MEETING				SAFETY MEETING HELD FOR CREW CHANGE W/ BOTH CREWS, BAKER HUGHES AND OPERATORS REP.
07:00	3.75	10.75	10:45	4	CORING				CUT CORE #4 F/1819M - TO 1838M, JAMMED OFF @ 1838M
10:45	1.25	12.00	12:00	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP
12:00	0.75	12.75	12:45	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP
12:45	6.00	18.75	18:45	6	TRIPS				TRIP OUT FOR CORE #4, FLOW CHECK @ 1825M, PUMP WEIGHTED PILL, PULL 5 STANDS, FLOW CHECK @ 1731M, CONT. OUT, FLOW CHECKS @ 1272M, 830M, 370M,
18:45	0.25	19.00	19:00	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, BAKER HUGHES AND HUSKY REP.

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 120,443.06	Cum Cost To Date 6,535,855.66
Daily Mud Cost 3,435.06	Mud Additive Cost To Date 576,741.26
Depth Start (mKB) 1,814.00	Depth End (mKB) 1,838.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 24.00	
Depth Start (TVD) (mKB) 1,813.51	Depth End (TVD) (mKB) 1,837.50
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 8,012.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 216.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
MI Swaco	1	12.00
Phoenix Technology Services LP	1	12.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	24.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	2	24.00
Baker Atlas	6	72.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/11/2012	2/12/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, P.J-8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No		
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (Unit)	Consumed
VERSAMUL	862.55	1.0
VERSAMOD	900.73	1.0
LIME	12.13	30.0
FED WATE (BARITE)	15.57	84.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,838.00	1.50	201.40	1,837.50

Well Name: LITTLE BEAR N-9

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	ProbU...	Problem Time (hrs)	Problem Ref #	Comment
19:00	4.75	23.75	23:45	4	CORING				HANDLE CORE BRLS RECOVER CORE # 4,LAY DOWN CORE BARRELS AND CORE EQUIPMENT
23:45	0.25	24.00	00:00	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS 6 SEC C/O

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	23:15	1,838.00	1290.0	47	14.0	4,500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3,500	7,500	13,000				14.7
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	81.0	19.0	249,019.000			691.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	0.00	0.00	113.90	102.40		

Drill Strings

BHA #8, Drilling Assembly

Bit R...	Drill Bit	Make	ADC Bit Drill	TFA (Incl Noz) (mm²)
7RR	222.0mm, BHC406C, 7134558	HUGHES	1-2-CT-S-X-0.00-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...	
	1,838.00		5.6	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	171.0	68.0	2.37	
Drill pipe - Singles	1	101.6	70.0	9.71	
Drill pipe - Stands	89	101.6	70.0	1,653.03	
HWDP(4.0 IN)	8	101.6	68.0	72.65	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
DC (6.25 IN)	3	165.0	58.0	28.23	
BURST SUB	1	156.0	58.0	1.02	
FLOAT SUB	1	171.0	72.0	0.46	
JARS-HYD	1	171.0	64.0	2.15	
TOP SUB CORE BBL	1	171.0	64.0	2.90	
CORE BBL	2	171.0	137.0	18.28	
CORE BBL	1	171.0	137.0	9.14	
CORE BBL	3	171.0	137.0	27.42	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (..	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,814.00	1,838.00	24.00	4.25	4.25	5.6	1.200
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
3	45	9,400	41,000	43,000	39,000	2,100.0	500.0
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/min)	Q (g return) (m³/min)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630		Surface Legal Location 300N96500126300		License No. 463		State/Province Northwest Territories	
Sour Class Sweet		ERP Required No		Lahee Classification TH (C)		Business Unit Canada Frontier - Exploration	
Initial Ground Elevation (m) 253.00		Cut/Fill (m) 0.52		Ground Elev. (m) 253.52		KB Elevation (m) 258.80	
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)		KB to Gnd (m) 5.28			
				Total Depth All (TVD) (mKB) Original Hole - 1867.5			
Primary Wellbore Affected Original Hole, 300N96500126300							
Weather Calm		Temperature (°C) -13		Road Condition Fair		Hole Condition Good	
Operations at Report Time Making up Logging run #3.				Operations Next Report Period Log w/Baker Atlas, Run in the hole with pipe etc, Circulate clean hole, Pull out of the hole laying down DP+HWDP prior to running casing.			

Operations @ 06:00 Logging with Baker Atlas, Run #3 (FIEX, EI, ORIT)	Operations Summary Pull out of the hole and laydown jars + motor etc. Flow check, Check blind Rams, Held safety meeting w/Rig crew + Loggers + RM + Husky Rep prior to rig in loggers Baker Atlas. Run #1 (HDIL, XMAC, ZDL, CN) Loggers bottom hole depth = 1868.05m. Run #2 (CBIL, EI, ORIT) This second run was also run and at surface @ 24:00 hrs. Monitor well all the time while logging. Held all safety crew change meetings with both crews, Rig Managers + Husky Reps.
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Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 81m3

Daily invert losses: 0.0 m3
Cumulative invert losses: 23.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction	
Well Site Supervisor	Woody Perlard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	1.00	1.00	01:00	6	TRIPS				CONTINUE TO P.O.O.H.FLOW CHECK @ 196M AND OUT OF HOLE, STRAP OUT / STEEL LINE STRAP 1868.06m / IN TALLY STRAP 1868.05m, 1 CM DIFF, HOLE FILL VOLUMES ACT 9.76m3 / CAL 5.99m3 / DIFF 3.77m3
01:00	0.25	1.25	01:15	6	TRIPS				LAY DOWN BHA JARS & MUD MOTOR
01:15	0.25	1.50	01:30	25					FLOW CHECK OUT OF HOLE & MONITOR WELL, ALL OK
01:30	0.25	1.75	01:45	21	SAFETY MEETING				PRE-JOB SAFETY WITH RIG CREW, RM, HUSKY REP & BAKER ATLAS LOGGING CREW
01:45	5.25	7.00	07:00	11	WIRELINE LOGS				LOG W / BAKER ATLAS, RUN #1 (HDIL, XMAC, ZDL, CN) TAG DEPTH 1868.05, TIME FOUR FIFTEEN
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE OVER WITH RM, HUSKY REPS
07:15	4.75	12.00	12:00	11	WIRELINE LOGS				CONTINUE TO LOG WITH BAKER ATLAS RUN # 1 (HDIL, XMAC, ZDL, CN), MONITOR WELL THROUGHOUT
12:00	7.00	19.00	19:00	11	WIRELINE LOGS				WIRELINE LOGS W/ BAKER ATLAS, RUN # 2 (CBIL, EI, ORIT), MONITOR WELL THROUGHOUT
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND HUSKY REPS.
19:15	4.75	24.00	00:00	11	WIRELINE LOGS				WIRELINE LOGS W / BAKER ATLAS RUN # 2 (CBIL, EI, ORIT), & MONITOR WELL THROUGHOUT

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 178,838.00	Cum Cost To Date 6,991,501.80
Daily Mud Cost	Mud Additive Cost To Date 578,786.40
Depth Start (mKB) 1,868.00	Depth End (mKB) 1,868.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,867.54	Depth End (TVD) (mKB) 1,867.54
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 498.00	Cum Pers Tot Hr (hrs) 9,038.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 218.00	Days RI (days)

Personnel Log

Company	Count	Total Time (hrs)
Nabors Drilling Limited	15	180.00
MI Swaco	1	12.00
Phoenix Technology Services LP	1	6.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Continental Laboratories	2	12.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	6	72.00
NEW VENDOR	3	36.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/13/2012	2/14/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PJ-8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
	No		
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No		

Mud Additive Amounts

Description	Cost (Unit)	Consumed
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,868.00	0.60	201.40	1,867.54

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

**Well Name: LITTLE BEAR N-9**

Mud Checks								Hole Size (mm)	
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	Max Nominal OD (mm)		
Invert	23:45	1,868.00	1290.0	50	15.0	4.000	244.5		
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)			
3.000	7.000	12.500				15.2			
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)			
	81.0	19.0	249,019.000			916.0			
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)					
	0.00	0.00	114.40	101.90					
Drill Strings									
Bit R.	Drill Bit	Make	ADC Bit Drill	TFA (inci Noz) (mm³)					
Nozzles (mm)			String Length (m)	String Wt (daN)	BHA ROP (m...				
Drill String Components									
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread				
Drilling Parameters									
Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...	Int ROP (m/hr)	Q (flow) (m³/min)		
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq		
Q (g inj) (m³/min)	T (inj) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (llq rtn) (m³/...	Q (g return) (m³/...		
Kick/Lost Circ									
Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type					
Comment									
Casing Strings									
Casing Description	Run Date	Set Depth (mKB)							
Comment									
Casing Components									
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)		
TopConn T...									

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630	Surface Legal Location 300N96500126300	License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1867.5	
Primary Wellbore Affected Original Hole, 300N96500126300			
Weather Snowing	Temperature (°C) -10	Road Condition Fair	Hole Condition Good
Operations at Report Time Pull out of the hole and laydown drill pipe.		Operations Next Report Period Laydown DP+HWDP+DC'S, Safety meeting, Run 177.8mm Casing, Cement Casing.	
Operations @ 06:00 Laydown Drill Collars, Rig Floor F/Tongs.		Operations Summary Logging w/Baker Atlas, Laydown Run #2 tools and Make up Run #3 (Flex, Mrex, DSL) This third run was at surface @ 12:00 hrs, laydown + rig out loggers. Monitor well all the time while logging. Make up 222mm Bit and trip in the hole for clean out trip prior to running casing. Wash in F/1820m to/Bottom 1868m no fill. Circulate bottoms up and hole clean + work drill string. Held safety meeting with rig crew+RM+Husky Rep prior to pull out of the hole laying down Drill pipe. Held all safety crew change meetings with both crews, Rig Managers + Husky Reps. Safety and well Integrity inspection of the camp and rig operations was performed by the NEB with satisfactory evaluation. Minor deficiencies were noted. Some were corrected immediately and some need correction to be made.	

Remarks
No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 81m3

Daily invert losses: 0.0 m3
Cumulative invert losses: 23.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction	
Well Site Supervisor	Woody Perliard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Rig Manager	Troy Preuss	Rig Manager	

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Problem Time (hrs)	Problem Ref #	Comment
00:00	1.00	1.00	01:00	11	WIRELINE LOGS			WIRELINE LOGS RUN # 2
01:00	1.00	2.00	02:00	11	WIRELINE LOGS			FINISH RUN #2 AND RIG TO RUN LOG #3
02:00	0.25	2.25	02:15	7	RIG SERVICE			RIG SERVICE F/T BLIND RAMS 7 SEC C/O
02:15	4.75	7.00	07:00	11	WIRELINE LOGS			WIRELINE LOGS #3 (FLEX,MREX,DSL)
07:00	0.25	7.25	07:15	21	SAFETY MEETING			SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND HUSKY REP.
07:15	4.75	12.00	12:00	11	WIRELINE LOGS			WIRELINE LOGS, CONTINUE RUN #3 (FLEX, MREX, DSL)
12:00	1.00	13.00	13:00	11	WIRELINE LOGS			WIRELINE LOGS, L/D TOOLS AND RIG OUT LOGGERS, HELD SAFETY MEETING W/ CREW AND BAKER ATLAS PRIOR TO
13:00	3.00	16.00	16:00	6	TRIPS			TRIP IN HOLE TO 597M, FLOW CHECK AND BREAK CIRCULATION
16:00	0.50	16.50	16:30	21	SAFETY MEETING			SAFETY MEETING HELD W/ CREW, R.M., N.E.B. AND HUSKY REPRESENTATIVES
16:30	3.50	20.00	20:00	6	TRIPS			CONT. TRIP IN FR/ 597M, FLOW CHECK AND BREAK CIRCULATION @ 1186M,
20:00	0.25	20.25	20:15	3	REAMING			WASH FR/1820 -TI- 1868M, NO FILL.
20:15	2.00	22.25	22:15	5	COND MUD & CIRC			CIRCULATE BOTTOMS UP + HOLE CLEAN
22:15	0.25	22.50	22:30	21	SAFETY MEETING			PRE-JOB SAFETY PRIOR TO LAY DOWN SIDEWAYS REVIEW JSA # B-24

Cost Object Number US-51822-EX-01-DR-ID	Orig AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 2,070,985.00	Cum Cost To Date 9,062,986.80
Daily Mud Cost	Mud Additive Cost To Date 578,786.40
Depth Start (mKB) 1,868.00	Depth End (mKB) 1,868.00
Last Casing String Surface, 639.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,867.54	Depth End (TVD) (mKB) 1,867.54
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 9,566.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 219.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
MI Swaco	1	12.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Baker Atlas	6	72.00
NEW VENDOR	3	36.00
Hallmark Technical Service	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/14/2012	2/15/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PJ-8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd Yes	Strokes (sp)	Eff (%)
2,632		43	95

Mud Additive Amounts

Description	Cost (unit)	Consumed

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,868.00	0.60	201.40	1,867.54

Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)

Hole Size (mm)

Max Nominal OD (mm)
244.5



Well Name: LITTLE BEAR N-9

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
22:30	1.25	23.75	23:45	6	TRIPS				PUMP PILL, RACK KELLY AND LAY DOWN SIDEWAYS FLOW CHECKS AS REQ 1868m, 1762M
23:45	0.25	24.00	00:00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 6 SEC C/O

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	23:45	1,868.00	1290.0		15.0	4.000
Gel 10 sec (Pa)						
4.000	7.500	13.000				15.2
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	81.0	19.0	246,475.000			920.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	0.00	0.00	110.10	106.20		

Drill Strings

BHA #10, Drilling Assembly

Bit R... Drill Bit	Make	IADC Bit Drill	TFA (incl Noz) (mm²)
9RR 222.0mm, EHT11, JR7647	J&L	-----	380
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
12.7/12.7/12.7	1,868.00		

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	0	171.0	68.0	12.08	
Drill pipe - Stands	93	101.6	70.0	1,737.86	
HWDP(4.0 IN)	1	101.6	68.0	8.97	
HWDP(4.0 IN)	1	102.0	68.0	8.99	
HWDP(4.0 IN)	1	102.0	68.0	9.15	
HWDP(4.0 IN)	1	102.0	68.0	9.29	
HWDP(4.0 IN)	1	102.0	68.0	8.96	
HWDP(4.0 IN)	1	102.0	68.0	8.95	
HWDP(4.0 IN)	1	102.0	68.0	9.08	
HWDP(4.0 IN)	1	102.0	68.0	9.26	
X/O	1	165.0	49.0	0.71	
DC (6.25 IN)	1	159.0	58.0	9.49	
JARS-HYD/MECH	1	165.0	49.0	6.10	
DC (6.25 IN)	1	165.0	58.0	9.49	
DC (6.25 IN)	1	165.0	58.0	9.47	
DC (6.25 IN)	1	165.0	58.0	9.27	
BIT SUB	1	167.0	68.0	0.63	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300N9650...	1,868.00	1,868.00		0.00			1.400
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
0	25	8,650	43,000	45,000	41,000		500.0
Q (g in) (m³/min)	T (In) (°C)	P (Bit Ann) (kPa)	T (bit) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type

Comment

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

Comment

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630		Surface Legal Location 300N96500126300		License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)		Business Unit Canada Frontier - Exploration	
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80	KB to Gnd (m) 5.28	
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)		Total Depth All (TVD) (mKB) Original Hole - 1867.5	
Primary Wellbore Affected Original Hole, 300N96500126300					
Weather light wind		Temperature (°C) -12	Road Condition Fair	Hole Condition Good	
Operations at Report Time Wait on Cement			Operations Next Report Period WOC, set slips. Cut casing. clean tanks. rig out.		
Operations @ 06:00 Set casing slips		Operations Summary Continued to lay down drill string. Break kelly. Safety meeting with crew operator rep, and RM. Stand 10 stands in derrick, lay down BHA. Function Blind rams. Pull wear bushing. Rig in Power Tongs. Safety meeting with Hallmark Power tongs operators. RAN: FLOAT SHOE, 2-JOINTS. FLOAT COLLAR 163 JOINTS. 177.8mm/34.23kg/m/L80/LTC/NEW JINDAL CASING, TOTAL LENGTH = 1869.9m, SHOE SET @1868.0M/KB. FLOAT @ 1,843M. ID = 161.7MM. Circulated casing to condition mud and hole for cementing. Rig in Schlumberger cementers. Safety meeting with Schlumberger Cementers. Cement 177.8mm casing: Pump 3 m3 Mud Push preflush, 1 m3 water to pressure test. Lead: 18.3 tonne (24.1 m3) HiLite 1400 + additives. Tail: 15.2 tonnes(11.5 m3) G + additives. Displaced w/ 37.9 m3 water with 0.5% (200 liters)KI3908 inhibitor. Plug down @ 23:40 hr, Feb 15, 2012. 1.0 m3 contaminated cement returns. Bump plug 3,500 kPa over, increased to 21,000 kPa held 10 minutes for pressure test on casing. Bleed off, Floats Held. Rig out cementers.			

Remarks

No Accidents, Incidents or Enviromental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:

Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 81m3

Daily invert losses: 0.0 m3
Cumulative invert losses: 23.7 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	7.00	7.00	07:00	6	TRIPS				CONTINUE TO TRIP OUT OF HOLE SIDEWAYS TO RUN CSG, BREAK KELLY, FLOW CHECKS @936M,134M
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE HAND OVER MEETING WITH BOTH CREWS OPERATOR REP.& RM
07:15	0.75	8.00	08:00	6	TRIPS				CONT. TRIP OUT SIDEWAYS, FLOW CHECK ON BANK, FUNCTIONED BLINDS ON BANK(3 SEC)
08:00	0.50	8.50	08:30	6D	Lay Down BHA				PULL WEAR BUSHING
08:30	0.50	9.00	09:00	12	RUN CASING AND CEMENT				RIG IN POWER TONGS, RIG TO RUN CASING, HELD SAFETY MEETING W/ CREW AND HALLMARK
09:00	3.00	12.00	12:00	12	RUN CASING AND CEMENT				RUN CASING, MAKE UP SHOE AND FLOAT, RUN CASING TO 564M
12:00	2.75	14.75	14:45	12	RUN CASING AND CEMENT				RUN CASING 564M - 938M, FLOW CHECK, BREAK CIRCULATION, CONT. 964M - 1358M
14:45	0.25	15.00	15:00	21	SAFETY MEETING				SAFETY MEETING FOR SHIFT CHANGE HELD W/ BOTH CREWS, R.M., HALLMARK AND OPERATORS REP.
15:00	2.75	17.75	17:45	12	RUN CASING AND CEMENT				RUN CASING 1358M - 1868M BRAKE CIRC TAG BOTTOM AT 1868M

Cost Object Number US-51822-EX-01-DR-ID	Ong AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date
Final Status	Spud Date 1/27/2012 15:50
Daily Cost Total 476,205.00	Cum Cost To Date 9,539,191.80
Daily Mud Cost	Mud Additive Cost To Date 578,786.40
Depth Start (mKB) 1,868.00	Depth End (mKB) 1,868.00
Last Casing String Production, 1,868.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,867.54	Depth End (TVD) (mKB) 1,867.54
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 468.00	Cum Pers Tot Hr (hrs) 10,034.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 220.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
MI Swaco	1	12.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Hallmark Technical Service	2	24.00
R G Mallett Oilfield Enterprises	1	12.00
Schlumberger Canada Ltd.	4	48.00
Clean Harbors Industrial	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/15/2012	2/16/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, Gardner-Denver, PJ-8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No		
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No		
# 1, GARDNER DENVER, P28			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			

Well Name: LITTLE BEAR N-9

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
17:45	3.00	20:75	20:45	5	COND MUD & CIRC				CIRCULATE AND CONDITION
20:45	0.25	21:00	21:00	21	SAFETY MEETING				SAFETY MEETING WITH CEMENTERS
21:00	0.50	21:50	21:30	12	RUN CASING AND CEMENT				CEMENTING RIG UP CEMENTERS
21:30	2.25	23:75	23:45	12	RUN CASING AND CEMENT				CEMENT CASING W/ SCHUMBERGER
23:45	0.25	24:00	00:00	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND OPERATORS REP.

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Slab (V)
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		

Drill Strings

Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (ind Noz) (mm³)
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
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Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
Q (g in) (m³/min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³/...)	Q (g return) (m³/...)

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
Comment				

Casing Strings

Casing Description	Run Date	Set Depth (mKB)
Production	2/15/2012	1,868.00
Comment		
RUN 165 JOINTS OF 177.8mm/34.23kg/m/L80/LTC/NEW JINDAL CASING, TOTAL LENGTH = 1869.9m, SHOE SET @1868.0M/KB. FLOAT @ 1,843M		

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Casing Joints		177.8	L-80	34.228	163	1,869.90	-1.90	
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Float Collar		177.8	L-80	34.228	1	24.14	1,843.86	
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Casing Joints		177.8	L-80	34.228	2	23.69	1,844.31	
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
Float Shoe		177.8	L-80	34.230	1	0.45	1,867.55	

Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		55	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
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Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)
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Hole Size (mm)

Max Nominal OD (mm)
177.8

Well Name: LITTLE BEAR N-9

Licensed UWI 300N9650012630		Surface Legal Location 300N96500126300		License No. 463	State/Province Northwest Territories
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)		Business Unit Canada Frontier - Exploration	
Initial Ground Elevation (m) 253.00	Cut/Fill (m) 0.52	Ground Elev. (m) 253.52	KB Elevation (m) 258.80	KB to Gnd (m) 5.28	
KB-Casing Flange Distance (m) 5.47		KB-Tubing Head Distance (m)		Total Depth All (TVD) (mKB) Original Hole - 1867.5	
Primary Wellbore Affected Original Hole, 300N96500126300					
Weather calm		Temperature (°C) -11	Road Condition Fair	Hole Condition Good	
Operations at Report Time Rig released. Tear out		Operations Next Report Period			
Operations @ 06:00 Tear out to move		Operations Summary WOC, nipple down BOP. Held safety meeting Crew change. Set casing slips with Streamflo tech. Safety meeting with Weatherford tool tech. Make up bridge plug and run in hole on Drill pipe. Tie in Schlumberger and set bridge plug @ 557m KB. Lay down drill pipe. Dress casing and install tubing spool. Pressure test seals to 26,000 kPa. held good. Install 7" valve and rig in Schlumberger to pressure test bridge plug and wellhead to 21,000 kPa for 10 minutes. Held good. Blow down casing with air to 4m. Rig out Schlumberger and tear out rig to move. Rig Released @ 23:59hr, Feb 16, 2012.			

Remarks

No Accidents, Incidents or Environmental Concerns.

Directions to the location. From Norman Wells, Take the winter road south for approx 34.4km. Turn right and go through the security. Continue on the Husky Winter Rd to the location at km 22. All roads are RADIO CONTROLLED.

Tank Farm:

Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 172m3

Daily invert losses: 17.30 m3
Cumulative invert losses: 41.0 m3

Daily Contacts

Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabi	DR Eng	403-462-8021
Office	Sandeep Randhawa	DR Eng	403-519-5660
Office	Darren Brown	Construction Super	
Well Site Supervisor	Woody Periard	DR Field Super	403-350-6027
Well Site Supervisor	Dan Hessdorfer	DR Field Super	780-446-5160
Well Site Supervisor	Cal Conklin	DR Field Super	403-502-3387

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
00:00	5.75	5.75	05:45	13	WAIT ON CEMENT				WAIT ON CEMENT
05:45	1.00	6.75	06:45	14	NIPPLE UP B.O.P.				NIPPLE DOWN BOPS TO SET CASING SLIPS
06:45	0.25	7.00	07:00	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND OPERATORS REP.
07:00	2.75	9.75	09:45	14	NIPPLE UP B.O.P.				SET CASING SLIPS, SLIPS SET @ 32000DAN
09:45	0.25	10.00	10:00	21	SAFETY MEETING				SAFETY MEETING WITH WEATHERFORD HAND ON WORKING WITH HIS TOOLS
10:00	2.00	12.00	12:00	6	TRIPS				MAKE UP PLUG, REBUILD TOOL AND RUN IN HOLE TO SET BRIDGE PLUG
12:00	0.75	12.75	12:45	6	TRIPS				TRIP IN HOLE WITH BRIDGE PLUG
12:45	1.50	14.25	14:15	25					FILL PIPE WITH FRESH WATER WITH 1" HOSE
14:15	0.25	14.50	14:30	21	SAFETY MEETING				SAFETY MEETING TOOL HAND AND CEMENTERS ON SETTING BRIDGE PLUG
14:30	0.25	14.75	14:45	25					RIG UP CEMENTERS TO SET BRIDGE PLUG
14:45	0.25	15.00	15:00	25					SET BRIDGE PLUG
15:00	1.75	16.75	16:45	6	TRIPS				LAY DOWN DRILL PIPE
16:45	1.50	18.25	18:15	25					FINAL CUT CASING , PUT CAP ON
18:15	0.25	18.50	18:30	21	SAFETY MEETING				SAFETY MEETING WITH CEMENTERS ON PRESSURE TESTING CSG
18:30	0.25	18.75	18:45	12	RUN CASING AND CEMENT				PRESSURE TEST CSG WITH CEMENT TRUCK
18:45	0.25	19.00	19:00	21	SAFETY MEETING				SAFETY MEETING FOR SHIFT CHANGE HELD W/ BOTH CREWS, R.M. AND OPERATORS REP

Cost Object Number US-51822-EX-01-DR-ID	Ong AFE Sup Am 12,997,003.00
Primary Job Type Initial Drilling	
Start Date 1/20/2012	End Date 2/15/2012
Final Status Drilled & Cased	Spud Date 1/27/2012 15:50
Daily Cost Total 883,654.00	Cum Cost To Date 10,425,672.95
Daily Mud Cost	Mud Additive Cost To Date 581,613.55
Depth Start (mKB) 1,868.00	Depth End (mKB) 1,868.00
Last Casing String Production, 1,868.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,867.54	Depth End (TVD) (mKB) 1,867.54
Target Formation Canol	Est Total Depth (mKB) 1,770.00
Personnel Total Hours (hrs) 456.00	Cum Pers Tot Hr (hrs) 10,490.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days) 221.00	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cat	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Hallmark Technical Service	2	24.00
R G Mallett Oilfield Enterprises	1	12.00
Schlumberger Canada Ltd.	4	48.00
Clean Harbors Industrial	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/16/2012	2/17/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date 2/16/2012 23:59	

Mud Pumps

# 1, Gardner-Denver, PJ-8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No		
# 2, Continental-Emsco, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No		
# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No		
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
		229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No		

Well Name: LITTLE BEAR N-9

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
19:00	5.00	24.00	00:00	22	TEAR DOWN				RIG OUT RIG TO MOVE IN THE AM

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	00:00		1290.0			
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	67.5	15.3				
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	6.50	8.80				

Drill Strings

Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
Nozzles (mm)			String Length (m)	String Wt (daN)
			BHA ROP (m...	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
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Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...	Int ROP (m/hr)	Q (flow) (m³/min)
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
Q (g in) (m³/min)	T (In) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rfm) (m³/...	Q (g return) (m³/...

Kick/Lost Circ

Occur Date	Occur Depth (mKB)	Control Date	Control Depth (mKB)	Incident Type
Comment				

Casing Strings

Casing Description	Run Date	Set Depth (mKB)
Comment		

Casing Components

Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)	TopConn T...
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Mud Additive Amounts

Description	Cost (/unit)	Consumed
CLEAN-UP		2.0
FED WATE		29.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
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Last 5 Formations

Formation Name	Prog Top (TVD) (mKB)	Drill Top MD (mKB)
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Hole Size (mm)

Max Nominal OD (mm)
177.8