



Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	KB to Gnd (m) 5.20	
Total Depth All (TVD) (mKB) Original Hole - 124.0			

Primary Wellbore Affected
Original Hole, 300H64650012600

Weather Overcast	Temperature (°C) -24	Road Condition Fair	Hole Condition Good
Operations at Report Time Trip for directional BHA	Operations Next Report Period Trip. Drill from 124m		
Operations @ 06:00 Thaw frozen mud line	Operations Summary Continued to rig up and rig to spud, fill mud tanks with water and pre-mix spud mud. Picked up BHA. Held a crew hand-over and a safety meeting. Mixed up kill mud to 1400 kg/m3. Rigged up tank farm and transferred invert mud. Spudded well at 1130 hrs and drill 311mm surface hole to 69m. Ran a wireline survey at 57m. (0.1 degrees). Drilled ahead from 69m to 97m. Ran a wireline survey at 87.0m (0.0 degrees). Continued to drill ahead to 124m. Circulate and trip out to run directional BHA.		

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. 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: 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	Cal Conklin	DR Field Super	403-502-3387
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	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	6.75	6.75	06:45	1	RIGUP & TEARDOWN				RIG UP TO SPUD, FINISH SUB AND TANK TARPING, INSTALL FLOW LINE, ACCUMULATOR LINES TO DIVERTER, FLARE STACK, MIX DRILLING MUD, INSTALL NEW KELLY STRIPPER,
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	4.50	11.50	11:30	25					MAKE UP PRE MIX & KILL MUD & SPOT TANK FARM & LAY OUT SWAMP MATTING
11:30	0.50	12.00	12:00	2	DRILL				SPUD WELL!! DRILL 311MM HOLE FR 0 TO 33M
12:00	2.00	14.00	14:00	2	DRILL				DRILL 311MM HOLE FR 33M TO 45M
14:00	0.25	14.25	14:15	7	RIG SERVICE				RIG SERVICE F/T DIVERTER 6 SECONDS C/O
14:15	4.75	19.00	19:00	2	DRILL				DRILL 311MM HOLE FR 45M TO 88M
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND OPERATORS REP
19:15	3.00	22.25	22:15	2	DRILL				DRILL 311MM HOLE 88M - 124M
22:15	0.50	22.75	22:45	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
22:45	1.25	24.00	00:00	6	TRIPS				TRIP OUT FOR BHA CHANGE, FLOW CHECK @ 112 M

Cost Object Number US-51822-EX-DR-02-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 116,367.99	Cum Cost To Date 656,600.99
Daily Mud Cost 6,207.99	Mud Additive Cost To Date 6,207.99
Depth Start (mKB) 0.00	Depth End (mKB) 124.00
Last Casing String	
Depth Progress (m) 124.00	
Depth Start (TVD) (mKB) 0.00	Depth End (TVD) (mKB) 124.00
Target Formation Canol	Est Total Depth (mKB)
Personnel Total Hours (hrs) 684.00	Cum Pers Tot Hr (hrs) 1,812.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LT (days)	Days RT (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
R G Mallett Oilfield Enterprises	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	2	24.00
NEW VENDOR	2	24.00
Hallmark Technical Service		0.00
Mullen Oilfield	15	180.00
Husky	1	12.00
Total Oilfield Rentals	3	36.00
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/19/2012	2/20/2012

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)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No	95	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0			
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No	95	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
SODA ASH	15.87	2.0
FED ZAN D	105.76	2.0
FEDERAL GEL	12.43	55.0
FED ZAN D	105.76	1.0
FEDERAL GEL	12.43	20.0
SODA ASH	15.87	22.0

Well Name: LITTLE BEAR H-64

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
GEL	22:00		1080.0	43		
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)		

Mud Additive Amounts

Description	Cost (/unit)	Consumed
FED WATE (BARITE)	15.57	294.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
57.00	0.10	0.00	57.00
87.00	0.00	0.00	87.00
124.00			124.00

Drill Strings

BHA #1, Drilling Assembly

Bit R... Drill Bit	Make	ADC Bit Drill	TFA (incl Noz) (mm²)
1RR 311.0mm, XR1CPS, PGK175	Smith	-----	1,335
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
23.8/23.8/23.8	112.09		12.1

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)	5	101.0		45.71	
X/O	1	165.0		0.71	
DC (6.25 IN)	2	165.0		18.97	
JARS-HYD/MECH	1	163.0		6.97	
DC (6.25 IN)	2	165.0		18.96	
X/O	1	165.0		0.78	
MONEL	2	208.0		18.95	
BIT SUB	1	206.0		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	0.00	33.00	33.00	0.50	0.50	66.0	
Hole,							
300H6465...							
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
4	60	800				1,400.0	
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/...)
Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Drill Time (...)	Int ROP (m/hr)	Q (flow) (m³/min)
Original	33.00	124.00	124.00	9.75	10.25	9.3	
Hole,							
300H6465...							
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
5	140	600				1,500.0	
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/...)	Q (g return) (m³/...)

Kick/Lost Circ

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

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

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)

Hole Size (mm)

Max Nominal OD (mm)

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 308.0	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Overcast	Temperature (°C) -16	Road Condition Fair	Hole Condition Good
Operations at Report Time Drilling from 308m		Operations Next Report Period Drill f/ 308m to casing point.	
Operations @ 06:00 Drill from 385m		Operations Summary Continued to pull out of the hole for Bit #2 and directional tools. Serviced the rig, Drained the diverter and functioned the HCR. Held a BOP drill. Held a pre-job safety meeting with the directional drillers. Picked up directional tools and bit #2. Thaw mud lines from the pump to the top of the stand pipe. Remove the kelly hose and thaw out. Installed the kelly hose, kicker hoses. Held a BOP drill and then trip in the hole with the directional tools. Shallow test the MWD and Gamma at 57m and at 87m. Wash 1 single to bottom and then drilled ahead from 124 to 170m. Serviced the rig and functioned the diverter. Drilled from 170m to 225m with directional surveys and gamma. Crew change meeting. Drilled from 225m to 308m and MWD surveys. Started slides @ 234m for correction.	

Remarks
No Accidents, 1 -Incidents or Environmental Concerns.
Over flow tank inside tank farm berm containment. No spillage outside the tank farm containment.

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm deleivered for Little Bear N-9
Base Oil Delivered today = 26m3, Total at Tank Farm = 26m3.
Invert Delivered today = 165m3, Total at Tank Farm = 165m3
Estimated 8m3 lost in transfer from well to well

Daily invert losses: 0.0 m3
Cumulative invert losses: 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	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	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	ProbU...	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.75	0.75	00:45	6	TRIPS				CONT. TRIP OUT OF HOLE & FLOW CHECK ON BANK
00:45	0.25	1.00	01:00	7	RIG SERVICE				RIG SERVICE & DRAIN DIVERTER & FUNCTION HCR
01:00	0.25	1.25	01:15	21	SAFETY MEETING				DRILLS/BOP, ETC. BOP DRILL ON SURFACE W/DIVERTOR OPERATION
01:15	0.25	1.50	01:30	21	SAFETY MEETING				PRE-JOB SAFETY WITH CREW & PHOENIX DIRECTIONAL HANDS
01:30	2.75	4.25	04:15	20	DIR. WORK				DIRECTIONAL WORK, PICK UP MUD MOTOR, SCRIBE, INSTALL MWD TOOLS AND MAKE UP BIT
04:15	2.75	7.00	07:00	8	REPAIR RIG				DOWNTIME - THAW OUT STANDPIPE, REMOVE KELLY HOSE & LAY OUT TO THAW
07:00	0.25	7.25	07:15	21	SAFETY MEETING				PRE TOUR SAFETY MEETING
07:15	2.00	9.25	09:15	8	REPAIR RIG				DOWNTIME - CNT TO THAW OUT STANDPIPE & HOOK KICKER & KELLY HOSE BACK UP
09:15	0.25	9.50	09:30	21	SAFETY MEETING				DRILLS/BOP, ETC. BOP DRILL ON SURFACE W/DIVERTOR OPERATION
09:30	2.50	12.00	12:00	6	TRIPS				TRIP IN HOLE W/DIRC TOOLS, TEST TOOL @ 57M , 87M
12:00	0.75	12.75	12:45	6	TRIPS				TRIP IN HOLE PICK UP SINGLE
12:45	3.25	16.00	16:00	2	DRILL				DRILL 311MM HOLE FR 124M TO 170M
16:00	0.25	16.25	16:15	7	RIG SERVICE				RIG SERVICE F/T DIVERTER 6 SECONDS C/O

Cost Object Number US-51822-EX-DR-02-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 126,661.80	Cum Cost To Date 783,262.79
Daily Mud Cost 1,692.80	Mud Additive Cost To Date 7,900.79
Depth Start (mKB) 124.00	Depth End (mKB) 308.00
Last Casing String	
Depth Progress (m) 184.00	
Depth Start (TVD) (mKB) 124.00	Depth End (TVD) (mKB) 307.95
Target Formation	Est Total Depth (mKB)
Canol	
Personnel Total Hours (hrs) 528.00	Cum Pers Tot Hr (hrs) 2,340.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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	2	24.00
NEW VENDOR	2	24.00
Hallmark Technical Service		0.00
Husky	1	12.00
Total Oilfield Rentals	3	36.00
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
Hallmark Technical Service	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/20/2012	2/21/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
	152.0	0.011	
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
9,500		100	95
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
	152.0	0.013	
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
9,500		100	95

Mud Additive Amounts

Description	Cost (unit)	Consumed
FED ZAN D	105.76	6.0
FEDERAL GEL	12.43	20.0
FED WATE (BARITE)	15.57	52.0

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
16:15	1.75	18.00	18:00	2	DRILL				DRILL 311 MM HOLE FR170M TO 225M
18:00	1.00	19.00	19:00	20	DIR. WORK				DIRECTIONAL SURVEYS, SYNC GAMMA, CONNECTIONS
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
19:15	3.75	23.00	23:00	2	DRILL				DRILL 311MM SURFACE HOLE 225M - 308M
23:00	1.00	24.00	00:00	20	DIR. WORK				DIRECTIONAL SURVEYS, SYNC GAMMA, AND CONNECTIONS ACCUMULATED

Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
219.58	1.50	28.80	219.58
238.71	1.20	335.40	238.69
276.05	1.60	317.70	276.02
294.50	1.80	301.00	294.46
310.00	1.80	300.00	309.95

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

Hole Size (mm)	
Max Nominal OD (mm)	

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
Gel Base	18:30	218.00	1140.0	43	8.0	3.000	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
4.000	7.000	11.000	15.0	1.0	8.5		
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
21			160.000	60.000			
Whole Mud Added (m³)		Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
GEL	22:00		1140.0	43			
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
					8.5		
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 #2 Drilling Assembly					
Bit R...	Drill Bit	Make	IADC Bit Duit	TFA (ind Noz) (mm²)	
2	311.0mm, M516, JY0376	Smith		583	
Nozzles (mm)	10.3/10.3/10.3/10.3/10.3/10.3			String Length (m)	BHA ROP (m...)
				296.85	21.0

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Singles	0			0.00	
Drill pipe - Stands	8			148.97	
HWDP(4.0 IN)	8	101.0		72.64	
X/O	1	165.0		0.71	
DC (6.25 IN)	3	165.0		28.45	
JARS-HYD/MECH	1	163.0		6.97	
DC (6.25 IN)	1	165.0		9.48	
X/O	1	205.0		0.78	
MONEL	2	207.0		18.92	
UBHO	1	203.0		0.98	
MOTOR HS	1	197.0		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, 300H6465...	124.00	308.00	184.00	8.75	8.75	21.0	2.400
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
2	45	9,500	19,000	19,000	19,000	2,200.0	
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

Casing Strings	
Casing Description	Run Date
	Set Depth (mKB)

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

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 502.9	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Light snow	Temperature (°C) -18	Road Condition Fair	Hole Condition Good
Operations at Report Time Wash in from 450m.		Operations Next Report Period Wash to bottom. Drill to 510m CP. Wiper trip. Trip out. Run & cement casing	

Operations @ 06:00 Wiper trip #2 start in	Operations Summary Drilled 311mm surface hole from 308m to 346m. Relogged the gamma from 324m to 346m. Drilled ahead from 346m to 394m. Serviced the rig, drained and functioned the HCR. Held a crew hand over and a safety meeting. Drilled ahead to 476m with directional tools with surveys. Drilled ahead from 476m to 503m. Circulate and wait for geologist to pick csg point. Serviced the rig and functioned the diverter. Wiper tripped to surface and then ran back in the hole to 222m. Held a crew hand over and a safety meeting. Continued to run in the hole to 296m. Break circ and wash through a bridge at 296m. RIH to 323m. Picked up the kelly and washed through bridges from 323m to 333m and from 360m to 370m. Run to 400m then work light hole to get pipe free and install kelly. Circulate and wash down from 390m to 450m.
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Remarks
No Accidents, 1 -Incidents or Enviromental Concerns.
Vac truck driver overfilled an evaporator and spilt approx 250 liters of dirty water onto the ground. Approx 100 liters of dirty water and ice was cleaned up.

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear N-9
Base Oil Delivered today = 26m3, Total at Tank Farm = 26m3.
Invert Delivered today = 165m3, Total at Tank Farm = 165m3
Estimated 8m3 lost in transfer from well to well

Daily invert losses: 0.0 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	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	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	2	DRILL				DRILL 311MM HOLE 308M - 346M
02:30	1.00	3.50	03:30	20	DIR. WORK				DIRECTIONAL WORK, RE-GAMMA LOG 324M - 346M
03:30	2.25	5.75	05:45	2	DRILL				DRILL 311MM HOLE 346M - 394M
05:45	0.25	6.00	06:00	7	RIG SERVICE				RIG SERVICE, DRAIN DIVERTER AND FUNCTION HCR(2 SEC)
06:00	1.00	7.00	07:00	20	DIR. WORK				DIRECTIONAL SURVEYS, GAMMA SYNCHS AND CONNECTIONS ACCUMULATED
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND OPERATORS REP.
07:15	3.75	11.00	11:00	2	DRILL				DRILL 311MM HOLE 394M - TO 476M
11:00	1.00	12.00	12:00	20	DIR. WORK				DIRECTIONAL SURVEYS, SYNC GAMMA, CONNECTIONS
12:00	1.50	13.50	13:30	2	DRILL				DRILL 311MM HOLE FR 476M TO 503M
13:30	1.75	15.25	15:15	23	WAITING ON				W/O ORDERS FROM GEO TO DRILL OR CALL IT TD
15:15	0.25	15.50	15:30	7	RIG SERVICE				RIG SERVICE F/T DIVERTER 6 SECONDS C/O
15:30	2.00	17.50	17:30	6	TRIPS				TRIP OUT OF HOLE , WIPER TRIP , FLOE CHECKS @ 389M, 149M, OUT OF HOLE CAL 3.18 MESR 4.51 DIFF 1.33 M3
17:30	1.50	19.00	19:00	6	TRIPS				TRIP IN HOLE

Cost Object Number US-51822-EX-02-DR-ID	Org AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 198,162.86	Cum Cost To Date 981,425.65
Daily Mud Cost 763.86	Mud Additive Cost To Date 8,664.65
Depth Start (mKB) 308.00	Depth End (mKB) 503.00
Last Casing String	
Depth Progress (m) 166.00	
Depth Start (TVD) (mKB) 307.95	Depth End (TVD) (mKB) 502.87
Target Formation Canol	Est Total Depth (mKB)
Personnel Total Hours (hrs) 492.00	Cum Pers Tot Hr (hrs) 2,832.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mt Swaco	1	12.00
Apex Oilfield Services 2000 Inc.	1	12.00
NEW VENDOR	1	12.00
R G Mallett Oilfield Enterprises	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	2	24.00
NEW VENDOR	2	24.00
Husky	1	12.00
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
Hallmark Technical Service	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/21/2012	2/22/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		105	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		105	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
FED ZAN D	105.76	1.0
FEDERAL GEL	12.43	15.0
SAWDUST	4.12	20.0
FED WATE (BARITE)	15.57	25.0

Survey Data

MD (mKB)	Ind (°)	Azm (°)	TVD (mKB)

Well Name: LITTLE BEAR H-64

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	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
19:15	2.25	21.50	21:30	6	TRIPS				CONTINUE TO TRIP IN TO 405M, ENCOUNTER BRIDGE
21:30	1.00	22.50	22:30	6	TRIPS				WORK TIGHT HOLE
22:30	1.50	24.00	00:00	6	TRIPS				TRIP IN HOLE, WASH 395M - 450M

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
GEL	14:00		1190.0	45		
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

BHA #2, Drilling Assembly

Bit R...	Drill Bit	Make	ADC Bit Dull	TFA (ind Noz) (mm³)
2	311.0mm, M516, JY0376	Smith	-----	583
Nozzles (mm)	10.3/10.3/10.3/10.3/10.3/10.3/10.3	String Length (m)	String Wt (daN)	BHA ROP (m...)
		492.54		18.7

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Singles	1			9.19	
Drill pipe - Stands	18			335.47	
HWDP(4.0 IN)	8	101.0		72.64	
X/O	1	165.0		0.71	
DC (6.25 IN)	3	165.0		28.45	
JARS-HYD/MECH	1	163.0		6.97	
DC (6.25 IN)	1	165.0		9.48	
X/O	1	205.0		0.78	
MONEL	2	207.0		18.92	
UBHO	1	203.0		0.98	
MOTOR HS	1	197.0		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, 300H6465...	308.00	447.00	323.00	8.50	17.25	16.4	2.400
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
4	45	12,700				5,000.0	
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/...
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, 300H6465...	476.00	503.00	350.00	1.50	18.75	18.0	2.400
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
4	45	11,000	23,000			4,500.0	
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/...	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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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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	KB to Gnd (m) 5.20	
Total Depth All (TVD) (mKB)			

Primary Wellbore Affected

Original Hole, 300H64650012600

Weather Light snow	Temperature (°C) -18	Road Condition Fair	Hole Condition Good
Operations at Report Time Circulate and condition the mud and hole for cement		Operations Next Report Period Cement, WOC, cut csg and weld bowl. Nipple up BOP and test	

Operations @ 05:00
WOC

Operations Summary

Trip in the hole. Break down stands and wash to bottom from 450m. Circulated the hole clean. Drilled ahead from 503m to 510m. Circulate and conditioned the hole. Wiper tripped to the conductor shoe. Ran back in the hole and wash 9 m to bottom. Held a crew hand over and a safety meeting. Circulated and conditioned the hole for csg. Pulled out of the hole and layed down the directional tools. Held a safety meeting with the power tongs. Held a safety stand down meeting with Mike Mackinnon and sandeep Rhanwa. Rigged up the power tongs. Held a crew hand over and a safety meeting with the power tong operator. Leveled the rig and ran csg. Circulated the last 2 jts to bottom. 510m. Circulated casing and conditioned the mud and wellbore. Held a safety standdown meeting with the rig crew. Continued to condition the mud.

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear N-9

Base Oil Delivered today = 26m3, Total at Tank Farm = 26m3.

Invert Delivered today = 165m3, Total at Tank Farm = 165m3

Estimated 8m3 lost in transfer from well to well

Daily invert losses: 0.0 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	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	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	6	TRIPS				TRIP IN, BREAK DOWN STANDS AND WASH 450M - BOTTOM
00:45	0.50	1.25	01:15	5	COND MUD & CIRC				CIRCULATE PRIOR TO DRILL AHEAD
01:15	0.75	2.00	02:00	2	DRILL				DRILL 311MM HOLE 503M - 510M
02:00	1.00	3.00	03:00	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE PRIOR TO TRIP
03:00	2.50	5.50	05:30	6	TRIPS				WIPER TRIP OUT TO 8'
05:30	1.25	6.75	06:45	6	TRIPS				TRIP IN TO 492M, FLOW CHECK, BREAK CIRCULATION
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	0.25	7.25	07:15	6	TRIPS				TRIP IN, WASH 492M - 510M
07:15	1.50	8.75	08:45	5	COND MUD & CIRC				CIRCULATE AND CLEAN HOLE
08:45	1.75	10.50	10:30	6	TRIPS				TRIP OUT OF HOLE, FLOW CHECK @500M, 445M, 168M, OUT OF HOLE CAL 3.16M3-MERS 4.26M3=DIFF 1.10M3
10:30	0.25	10.75	10:45	21	SAFETY MEETING				SAFETY MEETING DIRCTIONAL
10:45	1.25	12.00	12:00	20	DIR. WORK				DIRECTIONAL WORK
12:00	0.75	12.75	12:45	20	DIR. WORK				DIRECTIONAL WORK
12:45	0.25	13.00	13:00	21	SAFETY MEETING				SAFETY MEETING WITH POWER TONG GUYS
13:00	0.75	13.75	13:45	21	SAFETY MEETING				SAFETY STAND-DOWN WITH ALL HUSKY REPS & OPERATORS, RM, & CREWS
13:45	1.25	15.00	15:00	12	RUN CASING AND CEMENT				RIG UP POWER TONG TO RUN CASING

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 105,373.22	Cum Cost To Date 1,061,398.87
Daily Mud Cost 379.22	Mud Additive Cost To Date 9,043.87
Depth Start (mKB) 503.00	Depth End (mKB) 510.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 7.00	
Depth Start (TVD) (mKB) 502.87	Depth End (TVD) (mKB)
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 492.00	Cum Pers Tot Hr (hrs) 3,324.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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	2	24.00
NEW VENDOR	2	24.00
Husky	1	12.00
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
Hallmark Technical Service	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/22/2012	2/23/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.011	
Pres (kPa)	Slow Spd	Strokes (sp...) Eff (%)
		0
# 2, CONTINENTAL EMSCO, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.013	
Pres (kPa)	Slow Spd	Strokes (sp...) Eff (%)
11,700		105 95

Mud Additive Amounts

Description	Cost (Unit)	Consumed
FEDERAL GEL	12.43	22.0
FED ZAN D	105.76	1.0

Survey Data

MD (mKB)	Ind (°)	Azm (°)	TVD (mKB)

Well Name: LITTLE BEAR H-64

Time Log

Start Time	End Time	Cum Dur (hrs)	Activity Code	Activity Desc.	Problem Time (hrs)	Problem Ref #	Comment
15:00	15:15	0.25	21	SAFETY MEETING			SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
15:15	15:30	0.25	21	SAFETY MEETING			PRE-JOB SAFETY WITH HALLMARK PRIOR TO RUN CASING
15:30	16:00	0.50	1	RIGUP & TEARDOWN			LEVEL RIG
16:00	22:15	6.25	12	RUN CASING AND CEMENT			RUN CASING 9 5/8 & CIRCULATE LAST 2 JOINTS TO BOTTOM
22:15	22:45	0.50	21	SAFETY MEETING			SAFETY STAND-DOWN WITH NIGHT CREW & RM, & ALL HUSKY REPS
22:45	00:00	1.25	5	COND MUD & CIRC			CIRCULATE CSG AND CONDITION MUD

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
GEL	03:00		1190.0	65		
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
					8.5	
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)		
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Gel-Chem	08:00	510.00	1185.0	81	25.0	11.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
7.500	16.500	22.500			8.5	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
71				100.000		
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
		0.75		76.90		

Drill Strings

BHA #2, Drilling Assembly

Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
2	311.0mm, M516, JY0376	Smith	1-1-CC-H-X-0.00-CC-CP	583
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA SROP (m...)	
10.3/10.3/10.3/10.3/10.3/10.3	501.77		18.3	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Singles	0			0.00	
Drill pipe - Stands	19			353.89	
HWDP(4.0 IN)	8	101.0		72.64	
X/O	1	165.0		0.71	
DC (6.25 IN)	3	165.0		28.45	
JARS-HYD/MECH	1	163.0		6.97	
DC (6.25 IN)	1	165.0		9.48	
X/O	1	205.0		0.78	
MONEL	2	207.0		18.92	
UBHO	1	203.0		0.98	
MOTOR HS	1	197.0		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, 300H6465...	503.00	510.00	357.00	0.75	19.50	9.3	2.400
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
4	45	11,700	23,000	25,000	22,000	4,500.0	
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/...)	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)
Surface	2/22/2012	510.00

Comment

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	37	510.73	-0.73	TopConn T...
Float Collar		244.5	J-55	53.574	1	14.34	495.66	TopConn T...
Casing Joints		244.5	J-55	53.574	1	13.88	496.12	TopConn T...
Float Shoe		244.5	J-55	53.574	1	0.43	509.57	TopConn T...

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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) 5.20	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Overcast	Temperature (°C) -17	Road Condition Fair	Hole Condition Good
Operations at Report Time Nipple up BOP		Operations Next Report Period Nipple up. Pressure Test. RIH directional tools. Drill out. Conduct FIT. Drill 222mm	

Operations @ 06:00 Pressure testing BOP	Operations Summary Circulate & condition mud for cementing. Held safety meeting with Schlumberger cement crew, and all others prior to cementing. Rig up to cement. Cement Details: Pumped 4.0 m3 water, 43.0 tonnes (40.0 m3) RFC blend + additives @ 1,740 kg/m3. Displaced with 20 m3 water. Plug down @ 03:10hr, Feb 23/2012. Good returns through out w/ 20.0 m3 good cement returns. Pressure test casing to 15,000 kPa for 10 minutes. Held good. Release pressure, floats held. WOC. load out liquid mud for disposal. Safety meeting prior to lay down diverter and spools. Raise diverter, cut off casing, lay down diverter. Cut off conductor & casing to height for casing head. Weld on casing head and let cool. Pressure test to 7,000 kPa with nitrogen. Held good. Pre job safety meeting. Pick up BOP and nipple up BOP. Crew change hand over and safety meeting. Continue nipple up.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear N-9
Base Oil Delivered today = 26m3, Total at Tank Farm = 26m3.
Invert Delivered today = 165m3, Total at Tank Farm = 165m3
Estimated 8m3 lost in transfer from well to well

Daily invert losses: 0.0 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	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	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	5	COND MUD & CIRC				CIRCULATE CSG AND CONDITION MUD!
01:00	0.25	1.25	01:15	21	SAFETY MEETING				SAFETY MEETING WITH CEMENTERS RIG CREW & RM OPERATORS REP
01:15	2.00	3.25	03:15	12	RUN CASING AND CEMENT				RIG UP TO & CEMENT CASING, PLUG DOWN AT 310 AM
03:15	3.75	7.00	07:00	13	WAIT ON CEMENT				WAIT ON CEMENT
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	2.00	9.25	09:15	13	WAIT ON CEMENT				WAIT ON CEMENT
09:15	0.25	9.50	09:30	21	SAFETY MEETING				PRE-JOB SAFETY PRIOR TO LAY DOWN DEVERTER AND SPOOLS
09:30	1.00	10.50	10:30	14	NIPPLE UP B.O.P.				LAY DOWN DEVERTER FLOW T.LIFT DEVEERTER SYSTEM,CUT CASING
10:30	1.50	12.00	12:00	25					CUT CONDUCTOR PREP CASING TO WELD CASING BOWL
12:00	6.00	18.00	18:00	25					WELD CASING BOWL AND COOL AND PRESURE TEST HELD 1000 PSI TEN MIN
18:00	0.25	18.25	18:15	21	SAFETY MEETING				PRE-JOB SAFETY MEETING PRIOR TO PICK UP B.O.P
18:15	0.75	19.00	19:00	14	NIPPLE UP B.O.P.				NIPPLE UP BOPS
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVWER AND PRE TOUR SAFETY MEETING

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	

Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30

Daily Cost Total 497,706.47	Cum Cost To Date 1,559,105.34
Daily Mud Cost 102,107.97	Mud Additive Cost To Date 111,151.84

Depth Start (mKB) 510.00	Depth End (mKB) 510.00
Last Casing String	

Depth Progress (m) 0.00	
Depth Start (TVD) (mKB)	Depth End (TVD) (mKB)

Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 600.00	Cum Pers Tot Hr (hrs) 3,972.00

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

Days LTI (days)	Days RI (days)
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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
R G Mallett Oilfield Enterprises	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	2	24.00
NEW VENDOR	2	24.00
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
Hallmark Technical Service	2	24.00
Phoenix Technology Services LP	3	36.00
NEW VENDOR	6	72.00
Big Eagle Limited Partnership	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/23/2012	2/24/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)	
		0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)	
		0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed
INVERT	2,172.51	47.0

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
19:15	4.75	24.00	00:00	14	NIPPLE UP B.O.P.				NIPPLE UP BOP

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	ADC 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 (lin) (°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)

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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 512.9	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Overcast	Temperature (°C) -26	Road Condition Fair	Hole Condition Good
Operations at Report Time Perform FIT.		Operations Next Report Period Perform FIT. Drill 222mm from 513m	

Operations @ 06:00
Drilling ahead at 609m.

Operations Summary
Pressure tested the manifold to 1400 kpa low and to 21000 kpa high for 10 minutes each test. All tests were good. pressure tested the Blind rams, inside BOP and stabbing valve to 1400 kpa low and to 21000 kpa high for 10 minutes each test. All tests were good. Pressure tested the Pipe rams to 1400 kpa low. the test was good. Attempted to test the pipe rams to 21000 kpa and the seal on the ram door leaked. Changed out the seal and tested the pipe rams to 21,000 kpa. Pressure tested the annular to 1400 kpa low and to 10,500 kpa high for 10 minutes each test and tests were good. Tested the kill line valves and the HCR valve and the outside valve to 1400 kpa and to 21000 kpa high and the tests were good. Closed the blind rams and pressure tested the casing and the casing bowl to 10,000 kpa for 10 minutes. Test was good. Function tested the Accumulator and the motor kills. Start pressure on the accum. was 20,300 kpa. Pressure to close the accumulator was 3,800 kpa, to close the pipe rams was 700 kpa and to open the HCR was 200 kpa and to open the pipe rams was 600 kpa. Total pressure loss was 5300 kpa with 17,000 kpa remaining on the accumulator. Recharge time was 57 sec. Pre-charge on the accumulator is at 7,000 kpa. Nitrogen pressure on the bottles were 21000 PSI, 2250PSI, 2400kpa and 2400kpa. All checks were good. Pressure tested the kelly cock to 1400 kpa low and to 21000 kpa high for 10 minutes each tests and all tests were good. Installed the wear bushing and the Katch Kan on the drilling nipple. Held a pre-job safety meeting with the directional drillers and then picked up the BHA. Ran in the hole to 491m. Removed the balls and the elevators. Slipped and cut the drill line. RIH tagged cement @ 494m. Displace to invert mud. Drilled cement, float collar. Held BOP drill. Drill good cement from 497m to 510m. Drilled 3m new hole to 513m. Circulate hole clean and rig in Big Eagle pressure testing for FIT.

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 26m3, Total at Tank Farm = 26m3.
Invert Delivered today = 165m3, Total at Tank Farm = 165m3
Estimated 8m3 lost in transfer from well to well

Daily invert losses: 0.0 m3

Daily Contacts			
Type	Contact Name	Title	Mobile
Office	Kim Richardson	DR Superintendent	403-542-1059
Office	Goly Zilabl	DR Eng	403-462-8021
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	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	12	RUN CASING AND CEMENT				PRESSURE TEST MAINFOLD, BOPS, STABBING VAVVLE, INSIDE BOP, KELLY VAVLE
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	0.25	7.50	07:30	21	SAFETY MEETING				PRE-JOB SAFETY WITH BIG EAGLE PRESURE TESTING
07:30	4.50	12.00	12:00	12	RUN CASING AND CEMENT				CONTINUE PRESSURE TEST B.O.P AND ALL RELATED EQUIPMENT ALL TESTS HELD HIGH AND LOW 10 MIN AND RAMS PRESURE TESTED TO 21000KPA HIGH AND 1400KPA LOW ANNULAR 1400 KPA LOW 12000 KPA HIGH
12:00	1.50	13.50	13:30	15	TEST B.O.P.				PRESSURE TEST BOPS RAMS AND ALL RELATED VALVES 1400 KPA LOW ABND 21000 KPA HIGH ANNULAR 1200 KPA LOW AND 12000 KPA HIGH
13:30	0.50	14.00	14:00	25					INSTALL WEAR BUSING

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 224,455.26	Cum Cost To Date 1,815,410.60
Daily Mud Cost 2,818.26	Mud Additive Cost To Date 113,970.10
Depth Start (mKB) 510.00	Depth End (mKB) 513.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 3.00	
Depth Start (TVD) (mKB) 509.87	Depth End (TVD) (mKB) 512.87
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 468.00	Cum Pers Tot Hr (hrs) 4,440.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	Days RI (days)

Personnel Log		
Company	Count	Total 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
R G Mallet Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	3	36.00
Big Eagle Limited Partnership	1	12.00
		0.00

Safety Check Summary		
Type	Last Date	Next Date
Safety Meeting	2/24/2012	2/25/2012

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

Mud Pumps		
# 1, GARDNER DENVER, PZ8		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.011	
Pres (kPa)	Slow Spd	Strokes (sp)
	No	0
# 2, CONTINENTAL EMSCO, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.013	
Pres (kPa)	Slow Spd	Strokes (sp)
	No	100

Mud Additive Amounts		
Description	Cost (unit)	Consumed
VERSACOAT HF	900.76	1.0
VERSAMUL	862.55	1.0
TRUVIS	162.47	5.0
LIME	12.13	20.0

Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
517.53	1.60	105.10	517.40

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	ProbU	Problem Time (hrs)	Problem Ref #	Comment
14:00	0.50	14.50	14:30	14	NIPPLE UP B.O.P.				NIPPLE UP BOP (INSTALL CATCH CAN AND KILL LINE HOSE)
14:30	0.25	14.75	14:45	21	SAFETY MEETING				PRE-JOB SAFETY PRIOR TO PICK UP DIR TOOLS
14:45	2.75	17.50	17:30	20	DIR. WORK				PICK UP, MAKE UP AND HANDLE DIRECTIONAL TOOLS
17:30	1.50	19.00	19:00	6	TRIPS				RUN IN HOLE
19:00	0.25	19.25	19:15	21	SAFETY MEETING				PRE TOUR SAFETY MEETING AND CREW; CHANGE HAND OVER
19:15	1.00	20.25	20:15	6	TRIPS				TRIP IN HOLE REMOVE BAILS AND ELVATORS
20:15	0.25	20.50	20:30	21	SAFETY MEETING				PRE JOB SAFETY MEETING PRIOR TO SLIP AN CUT DRILL LINE
20:30	0.25	20.75	20:45	9	CUT OFF DRILLING LINE				SLIP/CUT DRILLING LINE
20:45	1.75	22.50	22:30	5	COND MUD & CIRC				TAG CEMENT @ 494M, DISPLACE TO OIL BASE
22:30	0.25	22.75	22:45	2	DRILL				DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE, DRILL GOOD CEMENT
22:45	0.25	23.00	23:00	21	SAFETY MEETING				DRILLS/BOP, ETC.
23:00	0.25	23.25	23:15	2C	Drill Cement/Drill Out Cement/Drill Float & Shoe				DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE
23:15	0.50	23.75	23:45	2	DRILL				DRILL 200MM FR 510M TO 513 M, PRESSER TESTING POINT
23:45	0.25	24.00	00:00	21	SAFETY MEETING				SAFETY MEETING WITH PRESSER TESTER

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
Oil Base	22:00		1200.0	49			
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)			

Drill Strings			
BHA #3, Drilling Assembly			
Bit R	Drill Bit	Make	IADC Bit Dull
3	222.0mm, MI 518, JD 1380	SMITH	-----
Nozzles (mm)	9.5/9.5/9.5/12.7/12.7/12.7/12.7/12.7		TFA (incl Noz) (mm²)
			847
	String Length (m)	String Wt (daN)	BHA ROP (m...)
	147.77		6.0

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)	8	101.0		72.64	
X/O	1	165.0		0.71	
DC (6.25 IN)	3	165.0		28.45	
JARS-HYD/MECH	1	163.0		6.97	
DC (6.25 IN)	1	165.0		9.48	
X/O	1	205.0		0.78	
MONEL	2	207.0		18.92	
UBHO	1	203.0		0.98	
MOTOR HS	1	197.0		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, 300H6465...	510.00	513.00	3.00	0.50	0.50	6.0	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
2,000	30						
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 rim) (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		

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

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



Daily Drilling - Detail (legal size)

Report Start Date: 2/24/2012

Report #: 8, DFS: 5.52

Depth Progress: 3.00

Well Name: LITTLE BEAR H-64

Casing Components

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 928.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Clear	Temperature (°C) -31	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 btms up, Wiper trip to csg shoe, Circulate btms up, POOH to P/U Core Barrels.	

Operations @ 06:00 Drill 222mm Main Hole @ 1029m.	Operations Summary Performed a FIT test to 21.5 kpa/m. Drilled ahead from 513m to 541m. Serviced the rig and functioned the pipe rams. Continued to drill ahead to 625m. Held a crew hand over and a safety meeting. Drilled ahead from 625m to 678m with the directional tools and gamma. Held a BOP drill and a man down drill. Drilled ahead from 678m to 709m with the directional tools and gamma. Drilled 222mm Hole F709m to 929m with directional tools and gamma.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 26m3.
Invert Delivered today = 30m3, Total at Tank Farm = 195m3

Daily invert losses: 3.5m3

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	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	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	12	RUN CASING AND CEMENT				PRESSURE TEST CSG/SHOE
00:45	1.50	2.25	02:15	2	DRILL				DRILL 222MM HOLE FR 513M TO 541M
02:15	0.25	2.50	02:30	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 3 SECOND C/O
02:30	4.50	7.00	07:00	2	DRILL				DRILL 222MM FR 541M TO 625M
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	2.75	10.00	10:00	2	DRILL				DRILL 222MM HOLE FR 625M-TO- 678M
10:00	0.25	10.25	10:15	21	SAFETY MEETING				DRILLS/BOP, AND MAN DOWN, EXSCAPE ROUTES ,BREIFING AREAS
10:15	0.75	11.00	11:00	2	DRILL				DRILL 222MM HOLE FR 678M-TO-709M
11:00	1.00	12.00	12:00	20	DIR. WORK				ACCUM DIRECTIONAL SURVEYS AND CONNECTION TIME
12:00	6.25	18.25	18:15	2	DRILL				DRILL 222MM HOLE FR 709M-TO-820M
18:15	0.25	18.50	18:30	7	RIG SERVICE				RIG SERVICE
18:30	0.50	19.00	19:00	2	DRILL				DRILL 222MM HOLE FR 820M TO 829M
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING
19:15	2.75	22.00	22:00	2	DRILL				DRILL 222MM HOLE FR 829M TO 929M
22:00	2.00	24.00	00:00	20	DIR. WORK				DIRECTIONAL SURVEYS , SYNC GAMMA , CONNECTIONS

Mud Checks

Type Invert	Time 12:30	Depth (mKB) 713.00	Density (kg/m³) 1200.0	Vis (s/L) 48	Plastic Visc (cp) 16.0	Yield Point (Pa) 3.000
Gel 10 sec (Pa) 3.000	Gel 10 min (Pa) 5.500	Gel 30 min (Pa) 8.500	Filtrate (mL/30min) 247,112.007	Filter Cake (mm) 151.50	pH 66.20	Solids (%) 12.7
MBT (kg/m³) 81.0	Percent Oil (%) 19.0	Percent Water (%) 247,112.007	Calcium (mg/L) Potassium (mg/L)	Electric Stab (V) 929.0		
Whole Mud Added (m³) 10.00	Mud Lost to Hole (m³) 3.50	Mud Lost to Surface (m³) 151.50	Reserve Mud Volume (m³) 66.20	Active Mud Volume (m³) 66.20		

Cost Object Number US-51822-EX-02-DR-ID	Ong AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 141,692.65	Cum Cost To Date 1,957,853.25
Daily Mud Cost 6,529.65	Mud Additive Cost To Date 118,392.41
Depth Start (mKB) 513.00	Depth End (mKB) 929.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 416.00	
Depth Start (TVD) (mKB) 512.86	Depth End (TVD) (mKB) 928.84
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 480.00	Cum Pers Tot Hr (hrs) 4,920.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	3	36.00
Big Eagle Limited Partnership	1	12.00
		0.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/25/2012	2/26/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris Bohlen	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	0		
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
1,900	Yes	57	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
VERSAMUL	862.55	1.0
LIME	12.13	10.0
OPTISEAL III	70.20	79.0

Well Name: LITTLE BEAR H-64

Drill Strings

BHA #3, Drilling Assembly

Bit R...	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm²)
3	222.0mm, MI 518, JD 1380	SMITH	-----	847
Nozzles (mm)	12.7/12.7/12.7/9.5/9.5/12.7/12.7		String Length (m)	BHA ROP (m...)
			929.00	21.5

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	9.75	
Drill pipe - Singles	1	101.6	70.0	9.25	
Drill pipe - Stands	41	101.6	70.0	762.58	
HWDP(4.0 IN)	8	101.6	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	158.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.96	
Pump out sub	1	157.0	58.0	1.02	
MONEL	2	167.0	73.0	18.89	
UBHO	1	164.0	73.0	0.92	
MOTOR HS	1	166.0	58.0	8.97	

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, 300H64650...	513.00	929.00	419.00	19.00	19.50	21.9	1.450
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Bottom Torque
2,000	40	9,500	24,000	25,000	23,000	3,800.0	560.0
Q (g inj) (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)
833.69	0.30	136.30	833.53
861.30	0.50	93.40	861.14
889.17	0.20	220.40	889.01
916.90	0.50	67.80	916.74
929.00	0.50	67.80	928.84

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 H-64

Licensed LWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1153.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Clear	Temperature (°C) -28	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 @ 1170m, Circ btms up, Wiper trip to csg shoe, Circulate btms up, POOH to P/U Core Barrels + RIH and cut core #1.	

Operations @ 06:00 Fill pipe and circulate	Operations Summary Drilled 222mm main hole with directional tools and gamma from 929m to 975m. Serviced the rig and functioned the pipe rams. Drilled ahead to 1051m with surveys. Held a crew handover and a safety meeting. Drilled ahead from 1051m to 1090m. Circulated up a sample and waited on orders as per geologist. Drilled ahead from 1090m to 1105m. Circulated up bottom hole sample and waited on orders as per the geologist. Drilled ahead from 1105m to 1135m. Circulated bottoms up sample and waited on orders as per the geologist. Drilled ahead from 1135m to 1150m with no rop restriction. Circulate bottoms hole sample for geologist and waited on orders from geologist. Drilled ahead from 1150m to 1154m. 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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 26m3.
Invert Delivered today = 0m3, Total at Tank Farm = 195m3

Daily invert losses: 8.7m3
Total invert losses: 20.2m3

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	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	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
00:00	2.75	2.75	02:45	2	DRILL				DRILL 222MM HOLE FR 929M TO 975M
02:45	0.25	3.00	03:00	7	RIG SERVICE				RIG SERVICE 3 SECONDS C/O PIPE RAMS
03:00	2.75	5.75	05:45	2	DRILL				DRILL 222MM HOLE FR 975M TO 1051M
05:45	1.25	7.00	07:00	20	DIR. WORK				DIRECTIONAL SURVEYS, SYNC GAMMA, CONNECTIONS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	4.00	11.25	11:15	2	DRILL				DRILL 222MM HOLE FR 1051M TO 1083M
11:15	0.75	12.00	12:00	20	DIR. WORK				ACCUM DIRECTIONAL SURVEYS AND CONNECTION TIME
12:00	0.75	12.75	12:45	2	DRILL				DRILL 222MM HOLE FR 1083M-TO-1090M
12:45	1.50	14.25	14:15	23	WAITING ON				WAIT ON ORDERS AS PER GEO
14:15	2.00	16.25	16:15	2	DRILL				DRILL 222MM HOLE FR 1090M-TO-1105M
16:15	1.25	17.50	17:30	23	WAITING ON				W/O ORDERS AS PER GEO
17:30	1.00	18.50	18:30	2	DRILL				DRILL 222MM HOLE FR 1105M-TO- 1116M
18:30	0.50	19.00	19:00	20	DIR. WORK				DIRECTIONAL SURVEYS , SYNC GAMMA , CONNECTIONS
19:00	0.25	19.25	19:15	21	SAFETY MEETING				CREW CHANGE HAND OVER AND PRE TOUR SAFETY MEETING
19:15	3.75	23.00	23:00	2	DRILL				DRILL 222MM HOLE FR 1116M TO 1150M
23:00	0.75	23.75	23:45	23	WAITING ON				W/O OREDERS AS PER GEO
23:45	0.25	24.00	00:00	2	DRILL				DRILL 22MM HOLE FR 1150M TO 1154M

Cost Object Number US-51822-EX-02-DR-ID	Org AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 132,063.24	Cum Cost To Date 2,081,866.49
Daily Mud Cost 775.24	Mud Additive Cost To Date 119,167.65
Depth Start (mKB) 929.00	Depth End (mKB) 1,154.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 225.00	
Depth Start (TVD) (mKB) 928.84	Depth End (TVD) (mKB) 1,153.81
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 5,448.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	3	36.00
Big Eagle Limited Partnership		0.00
Baker Hughes	2	24.00
Baker Atlas	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/26/2012	2/27/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris Bohlen	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
1,100	Yes	57	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	12.13	10.0
FED WATE (BARITE)	15.57	42.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,037.78	0.90	62.20	1,037.60

Well Name: LITTLE BEAR H-64

Mud Checks						
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	13:10	1,090.00	1205.0	49	17.0	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	9.500				12.7
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Slab (V)
	81.0	19.0	240,508.006			916.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
20.00	1.50	7.80	133.90	74.90		

Drill Strings

BHA #3, Drilling Assembly

Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm³)
3	222.0mm, MI 518, JD 1380	SMITH	-----	847
Nozzles (mm)	12.7/12.7/12.7/9.5/9.5/9.5/12.7/12.7			String Length (m)
				1,154.00
				String Wt (daN)
				BHA ROP (m...
				17.5

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	12.04	
Drill pipe - Singles	1	101.6	70.0	9.41	
Drill pipe - Stands	53	101.6	70.0	985.13	
HWDP(4.0 IN)	8	101.6	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	158.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.96	
Pump out sub	1	157.0	58.0	1.02	
MONEL	2	167.0	73.0	18.89	
UBHO	1	164.0	73.0	0.92	
MOTOR HS	1	166.0	58.0	8.97	

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	929.00	1,154.00	644.00	17.25	36.75	13.0	1.450
Hole,							
300H6465...							
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
1,000	45	9,500	27,000	31,000	25,000	2,000.0	580.0
Q (g inj) (m³/min)	T (Inj) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rim) (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)
1,065.84	0.40	61.30	1,065.65
1,093.29	0.40	102.80	1,093.10
1,120.96	1.00	99.20	1,120.77
1,154.00	1.00	99.20	1,153.81

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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1169.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Light Snow	Temperature (°C) -25	Road Condition Fair	Hole Condition Good
Operations at Report Time RIH W/Core barrel run #1.		Operations Next Report Period RIH W/Core barrel, Wash to bottom, Circulate btms up drop ball, Cut 54m of core, Circulate clean hole, POOH Recover core, Make up core barrel run #2.	

Operations @ 06 00 Cut Core #1 @ 1201m.	Operations Summary Drilled 222mm main hole from 1154m to 1157m with directional tools. Waited on orders as per geologist. Drilled ahead to 1170m. Circulated sample up as per geologist. Circulated and conditioned the hole and mud prior to wiper trip. Installed elevators, balls, pumped a weighted pill and wiper tripped to the csg shoe @ 510m. Flow check and ran back in the hole. Conditioned the hole prior to Pulling out of the hole for core bbls. Held a crew hand over and a safety meeting. Pulled out of the hole and layed down the MWD tool and the mud motor. Serviced the rig and functioned the blind rams. Held a safety meeting with rig crew + core hands + Husky rep prior to make up 54m of core bbls. Held safety crew change meetings with both crews, Rig Managers+Husky Reps. Picked up core bbls and run in the hole.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 26m3.
Invert Delivered today = 0m3, Total at Tank Farm = 104m3

Daily invert losses: 4.57m3
Total Invert losses: 24.77m3

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	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	Problem Time (hrs)	Problem Ref #	Comment
00:00	00:15	0.25	2	DRILL			DRILL 222MM HOLE FR 1154M TO 1157M
00:15	00:45	0.50	23	WAITING ON			W/O ORDERS PER GEO
00:45	01:30	0.75	2	DRILL			DRILL 222MM HOLE FR 1157M TO 1170M
01:30	01:45	1.75	23	WAITING ON			W/O ORDERS PER GEO
01:45	03:00	1.25	5	COND MUD & CIRC			CONDITION MUD & CIRCULATE
03:00	04:45	1.75	6	TRIPS			INSTALL BAILS AND ELEVATORS, TRIP OUT OF HOLE, WIPER TRIP, FLOW CHECKS @ 1160M, 1135M, 861M, 503M
04:45	06:00	1.25	6	TRIPS			TRIP IN HOLE FILL ON BOTTOM OF HOLE
06:00	07:00	1.00	5	COND MUD & CIRC			CONDITION MUD & CIRCULATE TO PULL OUT TO PICK UP CORE BARRELS
07:00	07:15	0.25	21	SAFETY MEETING			SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	07:45	0.50	5	COND MUD & CIRC			CIRCULATE AND CONDITION TO PULL OUT LAY DOWN TOOLS, MIX AND PUMP PILL
07:45	12:00	4.25	6	TRIPS			TRIP OUT OF HOLE, LAY DOWN TOOLS, FLOW CHECKS @ 1160M, 1081M, 528M, 168M, OUT OF HOLE IN TALLY STRAP 1170.44/STEEL LINE STRAP 1170.88 DIFF. 44CM HOLE FILL VOLUMES CAL 4.12M3/MEASURED 5.61M3/DIFF 1.49M3 TRIPPED OUT 20M/MIN

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 256,113.24	Cum Cost To Date 2,306,479.73
Daily Mud Cost 775.24	Mud Additive Cost To Date 119,942.89
Depth Start (mKB) 1,154.00	Depth End (mKB) 1,170.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 16.00	
Depth Start (TVD) (mKB) 1,153.80	Depth End (TVD) (mKB) 1,169.80
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 496.00	Cum Pers Tot Hr (hrs) 5,944.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	3	36.00
Baker Hughes	2	24.00
Baker Atlas	2	16.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/27/2012	2/28/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris Bohlen	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd No	Strokes (sp)	Eff (%)
	0	0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
1,100	Yes	57	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
LIME	12.13	10.0
FED WATE (BARITE)	15.57	42.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,148.83	1.40	89.70	1,148.64
1,155.18	1.30	91.80	1,154.98
1,170.00	1.30	91.80	1,169.80

Well Name: LITTLE BEAR H-64

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
12:00	0.25	12.25	12:15	21	SAFETY MEETING				SAFETY MEETING WITH DIR PRIOR LAYING DOWN TOOLS
12:15	1.50	13.75	13:45	20	DIR. WORK				HANDLE DIRECTIONAL TOOLS PULL MWD, RACK MONELS, DRAIN MOTOR AND BREAK BIT
13:45	0.25	14.00	14:00	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS OUT OF HOLE 4 SEC C/O
14:00	0.25	14.25	14:15	21	SAFETY MEETING				SAFETY MEETING WITH BAKER PRIOR TO MAKE UP CORE BARRELS
14:15	4.75	19.00	19:00	4	CORING				PICK UP AND MAKE UP CORE BARRELS
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:15	0.25	19.50	19:30	4	CORING				HANDLE CORE BRLS FINISH PUTTING CORE TOOLS TOGETHER
19:30	4.50	24.00	00:00	6	TRIPS				TRIP IN HOLE W/CORE BRLS FILL PIPE AT 700M

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
INVERT	06:15	1,170.00	1205.0	48	18.0	3.500
Gel 10 sec (Pa)		Gel 10 min (Pa)		Filtrate (mL/30min)	pH	Solids (%)
3.500		8.000		11.000		13.2
MBT (kg/m³)		Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)
		81.0	19.0	242,164.000		927.0
Whole Mud Added (m³)		Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)	
		2.30	2.00	129.80	74.70	

Drill Strings

BHA #3, Drilling Assembly

Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm³)
3	222.2mm, MI 518, JD 1380	SMITH	-----	847
Nozzles (mm)	9.5/9.5/9.5/12.7/12.7/12.7/12.7			
		String Length (m)	String Wt (daN)	BHA ROP (m)
		1,170.00		17.5

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	9.56	
Drill pipe - Singles	1	101.6	70.0	9.26	
Drill pipe - Stands	54	101.6	70.0	1,003.76	
HWDP(4.0 IN)	8	101.6	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	158.0	71.0	6.10	
DC (6.25 IN)	2	165.0	58.0	18.96	
Pump out sub	1	157.0	58.0	1.02	
MONEL	2	167.0	73.0	18.89	
UBHO	1	164.0	73.0	0.92	
MOTOR HS	1	166.0	58.0	8.97	

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	1,154.00	1,170.00	660.00	1.00	37.75	16.0	1.450
Hole, 300H6465...							
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	45	9,500	27,000	31,000	25,000	3,800.0	580.0
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 #4, Coring Assembly

Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm³)
4	222.2mm, 406C, 7136984	Hughes	-----	
Nozzles (mm)				
		String Length (m)	String Wt (daN)	BHA ROP (m)
		1,170.00		

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	11.78	
Drill Pipe stands	53	101.6	70.0	985.13	
HWDP	8	101.6	68.0	72.64	
XO Sub	1	165.0	49.0	0.71	
Drill Collar	4	165.0	49.0	37.93	
Pump Out Sub	1	157.0	58.0	1.02	
Float Sub	1	157.0	58.0	0.46	
Lee Jars	1	171.0	72.0	2.15	
Core Barrel	6	171.0	89.0	57.74	

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	1,170.00	1,170.00		0.00			
Hole, 300H6465...							
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
0	0		37,000				
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/min)	Q (g return) (m³/min)

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 H-64****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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1203.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Light Snow	Temperature (°C) -31	Road Condition Fair	Hole Condition Good
Operations at Report Time RIH W/Core barrel run #2.		Operations Next Report Period RIH W/Core Barrel run #2, Circ Btms up, Cut core, Circ bttms up, Pooch w/Core run #2, Retrieve core, Service Core barrel, Run in w/Core barrel Run #3.	

Operations @ 0600 Circulate bttms up clean hole prior to trip out.	Operations Summary Tripped in the hole with core bbls run #1. Wash in from 1150m to 1170m. Circulated bottoms up and then dropped the core ball. Cut core #1 from 1170m to 1194m. Serviced the rig and functioned the pipe rams. And held a crew hand over and a safety meeting. Cut Core from 1194m to 1204m. Circulated bottoms up and pumped a weighted pill. Pulled out of the hole due to a jammed core. Held a safety meeting with the core hands and then recovered 28.5m of core. (cut core # 1 from 1170m to 1204m. Recovered 28.5m.). Serviced the core bbl and then ran back in the hole with the core bbls run #2. Held safety crew change meetings with both crews, Rig Managers+Husky Reps.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 1.00m3
Total invert losses: 25.77m3

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	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	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	6	TRIPS				TRIP IN HOLE FILL WASH TO BOTTOM 1170M F/1150M
00:45	0.50	1.25	01:15	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP, DROP BALL
01:15	3.75	5.00	05:00	4	CORING				CUT CORE 222MM FR 1170M TO 1194M
05:00	0.25	5.25	05:15	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 3 SECONDS C/O
05:15	1.75	7.00	07:00	4	CORING				CUT CORE 222MM FR 1194M TO
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
07:15	0.75	8.00	08:00	4	CORING				CUT CORE FR/1194M TO 1204M
08:00	1.00	9.00	09:00	5	COND MUD & CIRC				CIRCULATE MIX PILL,PREP FLOOR TO TRIP.
09:00	3.00	12.00	12:00	6	TRIPS				PULL OUT OF HOLE TO RECOVER CORE #1 FLOW CHECKS AS REQ. 1193M,1114M,618M, 139M,
12:00	1.00	13.00	13:00	6	TRIPS				CONTINUE TO P.O.O.H FLOW CHECKS AS REQ.1193M,1114M,618M,139M,.... OF HOLE/HOLE FILL VOLUMES MEASURED 8.44M3/CAL 4.72M3/DIFF 3.72M3
13:00	0.25	13.25	13:15	21	SAFETY MEETING				SAFETY MEETING WITH BAKR CORE HA NDS Prio TO CORE, RECOVER #1
13:15	4.75	18.00	18:00	4	CORING				CORING RECOVER CORE #1 TOTAL RECOVER 28 METERS
18:00	1.00	19.00	19:00	4	CORING				CORING CHECK BIT MAKE UP CORE BARREL #2

Cost Object Number US-51822-EX-02-OR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 116,718.24	Cum Cost To Date 2,421,797.97
Daily Mud Cost 775.24	Mud Additive Cost To Date 120,718.13
Depth Start (mKB) 1,170.00	Depth End (mKB) 1,204.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 34.00	
Depth Start (TVD) (mKB) 1,169.80	Depth End (TVD) (mKB) 1,203.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 6,448.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LT1 (days)	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
R G Mallett Oilfield Enterprises	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cal	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/28/2012	2/29/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Chris Bohlen	Phone Mobile
Rig Release Date	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
	No	0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp)	Eff (%)
1,100	Yes	57	95

Mud Additive Amounts

Description	Coet (unit)	Consumed
LIME	12.13	10.0
FED WATE (BARITE)	15.57	42.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,204.00	1.30	91.80	1,203.79

Well Name: LITTLE BEAR H-64

Time Log

Start Time	End Time	Cum Dur (hrs)	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
19:00	19:15	0.25	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
19:15	21:15	2.00	4	CORING				HANDLE CORE BRLS , & MAKE UP CORE BARRELS
21:15	00:00	2.75	6	TRIPS				TRIP IN HOLE FILL HALF WAY & CONTINUE TO R.I.H.

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	07:00	1,202.00	1280.0	48	18.0	3.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.000	7.500	11.000				15.3
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	81.0	19.0	237,186.000			891.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	0.50		129.10	74.80		

Drill Strings

BHA #4, Coring Assembly

Bit R	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm)
4	222.2mm, 406C, 7136984	Hughes	1-1-WT-A-X-0-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,204.00		5.4	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	8.71	
Drill Pipe stands	55	101.6	70.0	1,022.20	
HWDP	8	101.6	68.0	72.64	
XO Sub	1	165.0	49.0	0.71	
Drill Collar	4	165.0	49.0	37.93	
Pump Out Sub	1	157.0	58.0	1.02	
Float Sub	1	157.0	58.0	0.46	
Lee Jars	1	171.0	72.0	2.15	
Core Barrel	6	171.0	89.0	57.74	

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, 300H6465...	1,170.00	1,204.00	34.00	6.25	6.25	5.4	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	7,500	37,000	38,000	36,000	3,850.0	275.0
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 #5, Coring Assembly

Bit R	Drill Bit	Make	ADC Bit Dull	TFA (incl Noz) (mm)
5RR	222.2mm, 406C, 7136984	Hughes	-----	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,204.00			

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	8.71	
Drill Pipe stands	55	101.6	70.0	1,022.20	
HWDP	8	101.6	68.0	72.64	
XO Sub	1	165.0	49.0	0.71	
Drill Collar	4	165.0	49.0	37.93	
Pump Out Sub	1	157.0	58.0	1.02	
Float Sub	1	157.0	58.0	0.46	
Lee Jars	1	171.0	72.0	2.15	
Core Barrel	6	171.0	89.0	57.74	

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, 300H6465...	1,204.00	1,204.00		0.00			0.000
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
0	0		37,000				
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...

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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1221.8	
Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Clear	Temperature (°C) -34	Road Condition Fair	Hole Condition Good
Operations at Report Time Circ Bottoms up Prior to begin cut core.		Operations Next Report Period RIH W/Core Barrel run #2, Circ Btms up, Cut core, Circ bttms up, Pooh w/Core run #3, Retrieve core, Service Core barrel, Run in w/Core barrel Run #4.	
Operations @ 06:00 Circ bttms up prior to trip out w/core #3.		Operations Summary Tripped in the hole W/core barrels run #2, Broke circulation and washed 2 singles to bottom. Circulated bottoms up. Cut core #2 from 1204m to 1222.0m. Circulated bottoms up. Pumped a waited pill and pulled out of the hole with a jammed core. Serviced the rig and functioned the pipe rams. Continued to pull out of the hole to the csg shoe. Held a crew hand over and a safety meeting. Finished pulling out of the hole. Layed out the inner barrels of the core barrels and then recovered 16m of core #2. Held a crew hand over and a safety meeting. Serviced the core barrels. Serviced the rig and functioned the blind rams. Run back in the hole with the core bbls run #3. Wash in F/1206m TO/1222m bottom.	

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 0.00m3
Total invert losses: 25.77m3

At the Slater River Base Camp there was a release of 2m3 of contaminated water (partially treated grey water / sewage) due to an equipment failure (valve freezing and cracking). Due to the nature of the release and the cold temperatures the release immediately froze on the ice pad. Remedial measures to scrape up the ice and disposal of the snow will be taken once the equipment and camp are moved off the location.

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	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	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	1.75	1.75	01:45	6	TRIPS				TRIP IN HOLE FILL TWO SINGLES FROM BOTTOM , WASH DOWN TWO SINGLES , WAIT FOR BOTTOMS UP
01:45	3.00	4.75	04:45	4	CORING				CUT CORE FR 1204M TO 1222M
04:45	1.50	6.25	06:15	5	COND MUD & CIRC				CIRC BOTTOMS UP TO TRIP OUT OF HOLE
06:15	0.25	6.50	06:30	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 3 SECOND C/O
06:30	0.50	7.00	07:00	6	TRIPS				TRIP OUT OF HOLE FLOW CHECKS @ 1211M , 1133M
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	3.50	10.75	10:45	6	TRIPS				TRIP OUT OF HOLE FLOW CHECKS @ 139M,79M OUT OF HOLE HOLE FILL VOLUMES,MEASURED 6.86 CAL 4.44M3 DIFF 2.42M3
10:45	0.25	11.00	11:00	21	SAFETY MEETING				SAFETY MEETING WITH BAKER CORE HANDS PRIOR TO RECOVER CORE #2
11:00	1.00	12.00	12:00	4	CORING				RECOVER CORE #2
12:00	4.00	16.00	16:00	4	CORING				RECOVER CORE #2 16 METERS RECOVERY
16:00	0.25	16.25	16:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 116,656.94	Cum Cost To Date 2,538,454.91
Daily Mud Cost 653.94	Mud Additive Cost To Date 121,372.07
Depth Start (mKB) 1,204.00	Depth End (mKB) 1,222.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 18.00	
Depth Start (TVD) (mKB) 1,203.79	Depth End (TVD) (mKB) 1,221.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 6,952.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	2/29/2012	3/1/2012

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)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No	0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
1,380	Yes	46	95

Mud Additive Amounts

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

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,222.00	1.30	91.80	1,221.79

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	Dur (hrs)	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				CORING, CHANGE BIT AND MAKE UP CORE BARRELS FOR RUN # 3, FUNCTIONED BLIND RAMS ON BANK(4 SEC)
19:00	0.25	19.25	19:15	7	RIG SERVICE				RIG SERVICE
19:15	3.75	23.00	23:00	6	TRIPS				TRIP IN, 61M - 710M, FLOW CHECK, BREAK CIRCULATION, CONT. IN 710M - 1206M, FLOW CHECK, BREAK CIRCULATION
23:00	0.25	23.25	23:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
23:15	0.75	24.00	00:00	6	TRIPS				WASH IN F/1206M - 1222M

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
Invert	05:30	1,222.00	1290.0	50	19.0	4,000	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
4,000	8,500	13,500				15.8	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
	81.0	19.0	237,186.000			816.0	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)			
0.00	0.00	1.00	128.20	75.00			

Drill Strings

BHA #5, Coring Assembly

Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
5RR	222.2mm, 406C, 7136984	Hughes	1-1-WT-A-X-0-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,222.00		6.0	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	170.0	68.0	8.24	
Drill pipe - Stands	56	101.6	70.0	1,040.67	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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, 300H6465...	1,204.00	1,222.00	18.00	3.00	3.00	6.0	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	8,050	28,000	29,000	27,000	3,850.0	550.0
Q (g inj) (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/...

BHA #6, Drilling Assembly

Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
6	222.0mm, 406C, 7135973	HUGHES	-----	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,222.00			

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	170.0	68.0	8.24	
Drill pipe - Stands	56	101.6	70.0	1,040.67	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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, 300H6465...	1,222.00	1,222.00		0.00			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
0	0	7,500	31,000	32,000	30,000		450.0
Q (g inj) (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

Casing Strings

Casing Description	Run Date	Set Depth (mKB)

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

Hole Size (mm)

Max Nominal OD (mm)
244.5



Report Start Date: 2/29/2012

Report #: 13, DFS: 10.52

Depth Progress: 18.00

Well Name: LITTLE BEAR H-64

Casing Components

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahae Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1240.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Clear	Temperature (°C) -31	Road Condition Fair	Hole Condition Good
Operations at Report Time Cutting core #4 @ 1248m.		Operations Next Report Period Cut Core #4, circ btms up, POOH W/Core #4, Retrieve core #4, Service core barrel, RIH, Circ Botms up, Cut core #5.	

Operations @ 0600 Tripping out with core #4.	Operations Summary Circulated bottoms up and then dropped the ball. Cut core #3 from 1,222m to 1241m. Circulated bottoms up due to jammed core. Pumped a weighted pill and pulled out of the hole to recover core #3. Serviced the rig and functioned the annular. Held a crew hand over and a safety meeting. Finished pulling out of the hole. Retrieved core #3 and serviced the core bbls. Held a BOP drill and functioned the blind rams. Run back in the hole with core bbls Run #4. Held a crew hand over and a safety meeting. Continued to run in the hole with core bbl run #4. Circulated bottoms up and then dropped the ball. Cut core #3 from 1,241m to 1248m.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 0.00m3
Total invert losses: 25.77m3

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	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	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	5	COND MUD & CIRC				CIRCULATE PRIOR TO DROP BALL
00:45	4.25	5.00	05:00	4	CORING				DROP BALL AND CUT CORE #3 222MM FR/122M-TO- 1241M
05:00	1.00	6.00	06:00	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
06:00	0.75	6.75	06:45	6	TRIPS				TRIPS PULL OUT OF HOLE WITH CORE # 3 TO 1097M
06:45	0.25	7.00	07:00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 6 SEC C/O
07:00	0.25	7.25	07:15	21	SAFETY MEETING				PRE TOUR SAFETY MEETING AND CREW CHANGE HAND OVER
07:15	3.75	11.00	11:00	6	TRIPS				TRIP OUT W/ CORE #3 1097M - 57M, FLOW CHECKS @ 1097M, 785M, 344M,
11:00	1.00	12.00	12:00	4	CORING				CORING, RETRIEVE CORE #3, HELD SAFETY MEETING W/ CREW AND BAKER HUGHES PRIOR TO, MONITOR WELL DURING
12:00	2.50	14.50	14:30	4	CORING				CORING, RETRIEVE CORE #3, MONITOR WELL THROUGHOUT
14:30	0.25	14.75	14:45	6	TRIPS				TRIP OUT, 58M - 0M, FLOW CHECK AND FUNCTION BLIND RAM(4 SEC) ON BANK
14:45	0.25	15.00	15:00	21	SAFETY MEETING				DRILLS, SOUR BOP DRILL HELD ON BANK, WELL SECURED IN 3.5 MIN
15:00	0.25	15.25	15:15	6	TRIPS				TRIP IN OM - 58M
15:15	1.75	17.00	17:00	4	CORING				CORING, MAKE UP CORE BARRELS FOR RUN #4
17:00	2.00	19.00	19:00	6	TRIPS				TRIP IN W/CORE BBLs RUN #4 F/58M - 597M, FLOW CHECK, BREAK CIRCULATION

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 115,456.94	Cum Cost To Date 2,653,911.85
Daily Mud Cost 653.94	Mud Additive Cost To Date 122,026.01
Depth Start (mKB) 1,222.00	Depth End (mKB) 1,248.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 26.00	
Depth Start (TVD) (mKB) 1,221.79	Depth End (TVD) (mKB) 1,247.78
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 504.00	Cum Pers Tot Hr (hrs) 7,456.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/1/2012	3/2/2012

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)
	0.0	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.011	
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)
No		0

# 2, CONTINENTAL EMSCO, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.013	
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)
1,233	Yes	50 95

Mud Additive Amounts

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

Survey Data

MO (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,248.00	1.30	91.80	1,247.78

Well Name: LITTLE BEAR H-64

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	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING HELD FOR SHIFT CHANGE W/ BOTH CREWS, R.M. AND OPERATORS REP.
19:15	2.00	21.25	21:15	6	TRIPS				RUN IN HOLE WITH CORE # 4
21:15	1.00	22.25	22:15	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE PRIOR TO DROP BALL
22:15	1.50	23.75	23:45	4	CORING				CORING 222MM HOLE FR /1241M-TO - 1448M
23:45	0.25	24.00	00:00	7	RIG SERVICE				RIG SERVICE F/T PIPE RAMS 4 SEC C/O

Mud Checks							
Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)	
INVERT	23:45	1,248.00	1250.0	86	19.0	4,000	
Gal 10 sec (Pa)	4.000	Gal 10 min (Pa)	8.500	Gal 30 min (Pa)	13.500	Fillrate (mL/30min)	Filter Cake (mm)
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
Whole Mud Added (m³)	0.00	Mud Lost to Hole (m³)	0.00	Mud Lost to Surface (m³)	0.00	Reserve Mud Volume (m³)	128.10
						Active Mud Volume (m³)	75.00

Drill Strings				
BHA #6, Drilling Assembly				
Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm)
6	222.0mm, 406C, 7135973	HUGHES	1-1-WT-A-X-0.00-NO-BHA	
Nozzles (mm)		String Length (m)	String Wt (daN)	BHA ROP (m...)
		1,241.00		4.5

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	168.0	68.0	8.77	
Drill pipe - Stands	57	101.6	70.0	1,059.14	
8-HWDP	1	102.0	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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, 300H6465...	1,222.00	1,241.00	19.00	4.25	4.25	4.5	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	7,500	31,000	32,000	30,000	2,750.0	450.0
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 rim) (m³...)	Q (g return) (m³...)

BHA #7, Drilling Assembly				
Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm)
7RR	222.0mm, 406C, 7135973	HUGHES	-----0.00--	
Nozzles (mm)		String Length (m)	String Wt (daN)	BHA ROP (m...)
		1,248.00		4.7

Drift String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	170.0	68.0	6.54	
Drill pipe - Singles	1	101.6	70.0	9.23	
Drill pipe - Stands	57	101.6	70.0	1,059.14	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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, 300H6465...	1,241.00	1,248.00	7.00	1.50	1.50	4.7	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	7,600	32,000	34,000	30,000	3,500.0	550.0
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 rim) (m³...)	Q (g return) (m³...)

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

Casing Strings	
Casing Description	Run Date
	Set Depth (mKB)

Casing Components							
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No 462	State/Province N.W.T
Sour Class Sweet	ERF Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1257.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Clear	Temperature (°C) -30	Road Condition Fair	Hole Condition Good
Operations at Report Time POOH W/Core run #5.		Operations Next Report Period Recover core #5, Service Core Barrels, RIH W/Run #6, Circ bttms up, Cut core #6, Circ bttms up, Pooh w/core #6, Recover core #6.	

Operations @ 06 00 Tripping In the hole with Core barrel run #6.	Operations Summary Cut Core #4 from 1248m to 1256.8m. (Core jammed off) Circulated bottoms up. Pumped a weighted pill and then pulled out of the hole. Held a crew hand over and a safety meeting. Continued to pull out of the hole. Retrieved core #4. Cut 15.6m and retrieved 15.0m. Serviced the core bbls and checked the bit. Ran back in the hole with core bbls run #5. Washed 21m to bottom. Circulated bottoms up and then dropped the ball. Cut core #5 from 1256.8m to 1258.50m. (core jammed off). Circulated bottoms up. Held a crew hand over and a safety meeting. Pumped a weighted pill and then pulled out of the hole with core run #5.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 2.30m3
Total invert losses: 28.1m3

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	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	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	2.00	2.00	02:00	4	CORING				CORING 222MM HOLE FR 1248M -TO- 1256M
02:00	1.00	3.00	03:00	5	COND MUD & CIRC				CIRCULATE PRIOR TO PULL CORE #4
03:00	4.00	7.00	07:00	6	TRIPS				P.O.O.H WITH CORE #4 FLOW CHECKS AS REQ
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	0.50	7.75	07:45	6	TRIPS				TRIP OUT CORE #4 TO 57M
07:45	0.25	8.00	08:00	4	CORING				CORING, RETRIEVE BALL
08:00	2.00	10.00	10:00	4	CORING				CORING, RETRIEVE CORE #4, SAFETY MEETING HELD W/ CREW AND BAKER HUGHES PRIOR TO, MONITOR WELL THROUGHOUT
10:00	0.50	10.50	10:30	6	TRIPS				TRIP OUT 58M - OM, FLOW CHECK AND FUNCTION BLIND RAM ON BANK(4 SEC)
10:30	0.25	10.75	10:45	6	TRIPS				TRIP IN W/CORE BARREL RUN #5 F/ OM - 57M
10:45	1.25	12.00	12:00	4	CORING				CORING, MAKE UP BARRELS FOR RUN #5, MONITOR WELL THROUGHOUT
12:00	0.25	12.25	12:15	4	CORING				CORING, MAKE UP CORE BARRELS FOR RUN #5, MONITOR WELL
12:15	0.25	12.50	12:30	7	RIG SERVICE				RIG SERVICE, FUNCTIONED HCR(2 SEC)
12:30	4.50	17.00	17:00	6	TRIPS				TRIP IN HOLE W/RUN #5 F/57M - 620M, FLOW CHECK, BREAK CIRCULATION, CONT. IN 620M - 1232M, FLOW CHECK, BREAK CIRCULATION, WASH 1232M - 1256M

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 116,357.67	Cum Cost To Date 2,770,269.52
Daily Mud Cost 1,554.67	Mud Additive Cost To Date 123,580.68
Depth Start (mKB) 1,248.00	Depth End (mKB) 1,258.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 10.00	
Depth Start (TVD) (mKB) 1,247.80	Depth End (TVD) (mKB) 1,257.80
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 540.00	Cum Pers Tot Hr (hrs) 7,996.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	3	36.00

Safety Check Summary

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

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)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
	No	0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
3,470	Yes	66	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
VERSAMOD	900.73	1.0
FED WATE (BARITE)	15.57	42.0

Survey Data

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

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	End Time	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
17:00	0.50	17:50	17:30	5	COND MUD & CIRC				CIRCULATE BOTTOMS UP, DROP BALL
17:30	1.50	19:00	19:00	4	CORING				CUT CORE#5 F/ 1256M - 1258M, JAMMED OFF
19:00	0.25	19:25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:15	0.75	20:00	20:00	5	COND MUD & CIRC				MIX PILL & CIRCULATE BOTTOMS UP PRIOR TO TRIP OUT
20:00	4.00	24:00	00:00	6	TRIPS				P.O.O.H WITH CORE # 5 FLOW CHECKS AS REQ. 1249M,1206M, 141M OUT OF HOLE

Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,258.00			1,257.80

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 (cP)	Plastic Visc (cp)	Yield Point (Pa)	
Invert	13:00	1,257.00	1250.0	0	13.0	3.500	
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)	
3.000	7.500	12.500				14.2	
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)	
82.0		18.0	261,449.000			732.0	
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)			
	0.50		126.00	71.00			

Drill Strings				
BHA #7, Drilling Assembly				
Bit R.	Drill Bit	Make	ADC Bit Drill	TFA (incl Noz) (mm²)
7RR	222.0mm, 406C, 7135973	HUGHES	1-1-WT-A-X-0.00-NO-BHA	
Nozzles (mm)		String Length (m)	String Wt (daN)	BHA ROP (m)
		1,256.00		4.3

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	0	170.0	68.0	5.31	
Drill pipe - Stands	58	101.6	70.0	1,077.60	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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, 300H6465...	1,248.00	1,256.00	15.00	2.00	3.50	4.0	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	45	7,800	32,000	33,000	31,000	3,500.0	550.0
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 #8, Drilling Assembly				
Bit R.	Drill Bit	Make	ADC Bit Drill	TFA (incl Noz) (mm²)
8RR	222.0mm, 406C, 7135973	HUGHES	1-1-WT-A-X-0.00-NO-BHA	
Nozzles (mm)		String Length (m)	String Wt (daN)	BHA ROP (m)
		1,258.00		1.3

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	0	170.0	68.0	7.31	
Drill pipe - Stands	58	101.6	70.0	1,077.60	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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, 300H6465...	1,256.00	1,258.00	2.00	1.50	1.50	1.3	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
2,000	40	7,950	32,000	33,000	31,000	2,550.0	450.0
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

Casing Strings		
Casing Description	Run Date	Set Depth (mKB)

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

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1258.8	
Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Light Snow	Temperature (°C) -28	Road Condition Fair	Hole Condition Good
Operations at Report Time Tripping in the hole with directional tools.		Operations Next Report Period Wash in log gamma, Drill F/1259 - 1269m, Circ bottoms up, Pooh w/Dir Tools+Laydown, Pick up Core barrels+Rih w/Run #7.	
Operations @ 06.00 Wash in Log Gamma @ 1153m.		Operations Summary Finished pulling out of the hole w/core run #5. Held a pre-job safety meeting with the core hands. Recovered 1.7m of core #5. Serviced the corebbls and the bit. Serviced the rig and functioned the blind rams. Ran back in the hole with the core bbls run #6 to the csg shoe @ 510m. Slipped and cut the drill line. Finished running in the hole w/ core run #6. Broke circ and washed 15m to bottom. Circulated bottoms up and dropped the core ball. Cut core #6 from 1258.4m to 1259.4m. Core Jammed off. Circulated bottoms up and pumped a weighted pill. Pulled out of the hole to recover core #6. At surface recovered 0.70m of core. Laydown core inner tubes and rack outer tubes in the derrick. Function blind rams and flow check out of the hole. Held safety meeting with Directional + Rig Crew + Husky rep prior to pickup directional tools. Pickup Phoenix Directional Tools 7/8 Lobe 3 Stage motor set at 1.50 deg Bent Housing with MWD+Gamma.	

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily Invert losses: 2.30m3
Total Invert losses: 28.1m3

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	Cal Conklin	DR Field Super	403-502-3387
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	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
00:00	0.50	0.50	00:30	6	TRIPS				CONTINUE TO P.O.O.H FLOW CHECKS AS REQ.1249M,1206M,141M,OUT OF HOLE /HOLE FOLL VOLUMES CAL; 4.91M3/MEAS 6.92M3/ DIFF 2.01M3
00:30	0.25	0.75	00:45	21	SAFETY MEETING				PRE-JOB SAFETY WITH BAKER CORE PRIOR TO PULLING BALL WITH HSE,AND PULL CORE BARRELS
00:45	5.50	6.25	06:15	4	CORING				RECOVER CORE #5 RACK BARRELS,CHECK BIT RUN BARRELS , MAKE UP BARRELS
06:15	0.25	6.50	06:30	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS OUT OF HOLE C/O 4 SEC
06:30	0.50	7.00	07:00	6	TRIPS				RUN IN HOLE W/ CORE RUN #6 TO/320M
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	0.50	7.75	07:45	6	TRIPS				TRIP IN W/ CORE RUN #6 F/320M - 512M, FLOW CHECK, BREAK CIRCULATION
07:45	0.25	8.00	08:00	21	SAFETY MEETING				PRE-JOB SAFETY MEETING REVIEWED JSA B-40(SLIP AND CUT DRILL LINE)
08:00	0.75	8.75	08:45	9	CUT OFF DRILLING LINE				SLIP/CUT DRILLING LINE (15.08M), RESET AND FUNCTION CROWN SAVER FOLLOWING

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 116,357.67	Cum Cost To Date 2,886,627.19
Daily Mud Cost	Mud Additive Cost To Date 123,580.68
Depth Start (mKB) 1,258.00	Depth End (mKB) 1,259.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 1.00	
Depth Start (TVD) (mKB) 1,257.78	Depth End (TVD) (mKB) 1,258.78
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 516.00	Cum Pers Tot Hr (hrs) 8,512.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LT1 (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00
Baker Atlas	1	12.00

Safety Check Summary

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

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)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
	No	0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
1,500	Yes	50	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
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Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,259.00	1.30	91.80	1,258.78

Well Name: LITTLE BEAR H-64

Time Log								
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #
08:45	2.50	11.25	11:15	6	TRIPS			TRIP IN W/ CORE RUN #6 F/ 512M - 1244M, FLOW CHECK, BREAK CIRCULATION, WASH 1244M - 1259M
11:15	0.75	12.00	12:00	5	COND MUD & CIRC			CIRCULATE BOTTOMS UP, DROP BALL
12:00	1.00	13.00	13:00	4	CORING			CUT CORE, RUN #6, F/1258M - 1259M, JAMMED OFF.
13:00	0.75	13.75	13:45	5	COND MUD & CIRC			MIX PILL & CIRCULATE BOTTOMS UP
13:45	5.00	18.75	18:45	6	TRIPS			TRIP OUT TO 57M TO RETRIEVE CORE #6 AND L/D CORE TOOLS, FLOW CHECK @ 1249M, PUMP WEIGHTED PILL, FLOW CHECKS @ 1159M, 698M, 328M 149M OUT OF HOLE, HOLE FILL VOLUMES, ACT 7.47M3, CALC 4.91M3 DIFF 2.56M3
18:45	0.25	19.00	19:00	21	SAFETY MEETING			SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:00	2.50	21.50	21:30	4	CORING			CORING, RETRIEVE BALL, RETRIEVE CORE #6 AND LAY DOWN CORE TOOLS, SAFETY MEETING HELD W/ CREW, HSE AND BAKER HUGHES BREAK BOWN INNER BARRELS, RECOVER .60CM, RACK OUTER BARRELS IN DERRICK
21:30	0.25	21.75	21:45	21	SAFETY MEETING			PRE-JOB SAFETY
21:45	0.25	22.00	22:00	7	RIG SERVICE			RIG SERVICE F/T BLIND RAMS OUT OF HOLE
22:00	1.50	23.50	23:30	20	DIR. WORK			HANDLE DIRECTIONAL TOOLS. SCRIBE, INSERT MWD,
23:30	0.50	24.00	00:00	6	TRIPS			TRIP IN THE HOLE W/ PHOENIX DIRECTIONAL TOOLS

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	12:00	1,257.00	1250.0	0	13.0	3.500
Gel 10 sec (Pa)	7.500	12.500	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.000						14.2
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	82.0	18.0	261,449.000			732.0
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	126.00	71.00		

Drill Strings

BHA #9, Drilling Assembly

Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm³)
9RR	222.0mm, 406C, 7135973	HUGHES	1-1-WT-A-X-0-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,259.00		1.0	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	170.0	68.0	8.31	
Drill pipe - Stands	58	101.6	70.0	1,077.60	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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	1,258.00	1,259.00	1.00	1.00	1.00	1.0	1.200
Hole, 300H6465...							
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	40	8,700	32,000	33,000	31,000	2,750.0	450.0
Q (g in) (m³/min)	T (in) (°C)	P (Bt Ann) (kPa)	T (bh) (°C)	P (Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m³)	Q (g return) (m³...)

BHA #10, Drilling Assembly

Bit R	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm³)
10RR	222.0mm, M1516, JD1380	SMITH	-----	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,140.00			

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Drill pipe - Stands	54	101.6	70.0	992.58	
HWDP(4.0 IN)	8	101.6	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	163.0	71.0	6.10	

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 H-64

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
DC (6.25 IN)	2	165.0	58.0	18.96	
PUMPOUT SUB	1	157.0	58.0	1.02	
MONEL	2	167.0	73.0	18.89	
UBHO	1	164.0	73.0	0.92	
MOTOR HS	1	166.0	58.0	8.97	

Drilling Parameters

Wellbore	Start (mKB)	Depth End (mKB)	Cum Depth (m)	Drilling Time (hrs)	Cum Dril Time	Int ROP (m/hr)	Q (flow) (m³/min)
Original Hole, 300H6465...	1,259.00	1,259.00		0.00			0.000
WOB (daN)	RPM (rpm)	SPP (kPa)	Drill Str Wt (daN)	PU Str Wt (daN)	SO Str Wt (daN)	Drilling Torque	Off Btm Tq
0	0	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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Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m)	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1269.8	

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Light Snow	Temperature (°C) -30	Road Condition Fair	Hole Condition Good
Operations at Report Time Picking up and making up Core Barrels.		Operations Next Report Period RIH W/core barrels, Circ btms up, Cut core #7, Circ btms up, Pooh w/Core run #7, Retrieve core, Handle core barrel.	

Operations @ 06:00 Drop ball to cut core #7	Operations Summary Tripped in the hole with the directional tools. (Shallow test the MWD at 450m). Fill pipe and circulated bottoms. Layed down 11 singles. Held a BOP drill. Wash back to bottom from 1136 and log well with gamma. Held a crew hand over and a safety meeting. Continue to log with gamma to 1257m. Serviced the rig and functioned the pipe rams. Logged with gamma to 1259m. Drilled ahead from 1259m to 1265m. Circulated bottom hole sample up for the geologist. Drilled ahead to 1270m. Circulated up a bottom hole sample for the geologist and wait on orders. Pumped up a bottom hole survey. Pumped a weighted pill and pulled out of the hole for core bbls. Held a crew hand over and a safety meeting. Continued to Pull out of the hole. At surface held a safety meeting with Rig Crew + Directional + Husky rep prior to laydown directional tools. Once out of the hole function blind rams and flow check well. Held safety meeting with Rig Crew + Core Hand + Husky rep prior to pickup and make up core barrels, run #7.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 1.0m3
Total Invert losses: 29.1m3

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	Cal Conklin	DR Field Super	403-502-3387
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	3.00	3.00	03:00	6	TRIPS				TRIPS IN HOLE W/DIRECTIONAL TOOLS FLOW CHECK AND SHALLOW TEST 450M
03:00	0.50	3.50	03:30	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE UP BOTTOM UP,CHECK WITH HSE
03:30	1.00	4.50	04:30	6	TRIPS				LAY DOWN 11 SINGLES TO RELOG GAMMA
04:30	0.25	4.75	04:45	21	SAFETY MEETING				DRILLS/BOP, USED MAN DOWN DRILL AND WALKED AROUND WITH HAND.
04:45	2.25	7.00	07:00	20	DIR. WORK				DIRECTIONAL SURVEYS RELOG GAMMA FR/1136M - 1173M
07:00	0.25	7.25	07:15	21	SAFETY MEETING				CREW CHANGE HAND OVER AND PRE TOUR SAFETY MEETING
07:15	4.50	11.75	11:45	20	DIR. WORK				DIRECTIONAL SURVEYS RELOG GAMMA F/ 1173M - 1257M
11:45	0.25	12.00	12:00	7	RIG SERVICE				RIG SERVICE FCT PIPE RAMS 3 SECS C/O
12:00	1.00	13.00	13:00	20	DIR. WORK				DIRECTIONAL SURVEYS RELOG GAMMA F/ 1257M - 1259.5M
13:00	0.50	13.50	13:30	2	DRILL				DRILL 222MM HOLE F/ 1259.5M - 1265M
13:30	1.00	14.50	14:30	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE BOTTOMS UP
14:30	0.75	15.25	15:15	2	DRILL				DRILL 222MM HOLE F/ 1265M - 1270M

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 122,918.43	Cum Cost To Date 3,009,545.62
Daily Mud Cost 2,170.43	Mud Additive Cost To Date 125,751.11
Depth Start (mKB) 1,259.00	Depth End (mKB) 1,270.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 11.00	
Depth Start (TVD) (mKB) 1,258.79	Depth End (TVD) (mKB) 1,269.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 528.00	Cum Pers Tot Hr (hrs) 9,040.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00
Baker Atlas	2	24.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/4/2012	3/5/2012

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)
	0.0	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.011	
Pres (kPa)	Slow Spd	Strokes (sp. Eff (%)
	No	0

# 2, CONTINENTAL EMSCO, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.013	
Pres (kPa)	Slow Spd	Strokes (sp. Eff (%)
2,450	Yes	60 95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
VERSAMUL	862.55	1.0
FED WATE (BARITE)	15.57	84.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,186.56	1.00	73.30	1,186.36

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc	Prob/U	Problem Time (hrs)	Problem Ref #	Comment
15:15	1.00	16:25	16:15	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE BOTTOMS UP
16:15	0.50	16:75	16:45	23	WAITING ON				W/O ORDERS FROM GEOLOGY
16:45	0.25	17:00	17:00	20	DIR. WORK				DIRECTIONAL SURVEY ON BTM
17:00	2.00	19:00	19:00	6	TRIPS				TRIP OUT OF HOLE W/DIRECTIONAL TOOLS (STRAP OUT) FL CK @ 1263,1218,629m
19:00	0.25	19:25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:15	0.75	20:00	20:00	6	TRIPS				CNT TO TRIP OUT OF HOLE W/DIRECTIONAL TOOLS (STRAP OUT) FL CK @ 389, OUT OF HOLE STEEL LINE STAP DIFF .86CM/HOLE FILL VOLUMES, MEAS 6.66M3,CALC 4.64M3,2.02M3
20:00	0.25	20:25	20:15	21	SAFETY MEETING				PRE-JOB SAFETY WITH DIR HANDS PRIOR TO DIR TOOLS
20:15	1.75	22:00	22:00	20	DIR. WORK				DIRECTIONAL WORK LAY OUT MWD,RACK MONELS
22:00	0.25	22:25	22:15	21	SAFETY MEETING				PRE-JOB SAFETY PRIOR TO PICK UP AND MAKE UP CORE TOOLS
22:15	1.50	23:75	23:45	4	CORING				PICK UP AND MAKE UP CORE BARRELS, RUN #7
23:45	0.25	24:00	00:00	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS OUT OF HOLE

Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,214.26	0.60	86.80	1,214.06
1,242.52	0.30	107.90	1,242.31
1,255.00	0.20	120.70	1,254.79
1,270.00	0.20	120.70	1,269.79

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	12:30	1,264.00	1230.0	46	13.0	3.500
Gel 10 sec (Pa)	Gel 10 min (Pa)	Gel 30 min (Pa)	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
3.000	7.000	11.500				13.1
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	82.0	18.0	266,257.000			1113.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
10.00		1.00	120.90	79.10		

Drill Strings			
BHA #10, Drilling Assembly			
Bit R	Drill Bit	Make	IADC Bit Dull
RR3	222.0mm, M1516, JD1380	SMITH	-----
Nozzles (mm)		String Length (m)	String Wt (daN)
		1,270.00	BHA ROP (m...)
			8.8

Drill String Components					
Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	0	170.0	68.0	6.66	
Drill pipe - Stands	60	101.6	70.0	1,115.05	
HWDP(4.0 IN)	8	101.6	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	163.0	71.0	6.97	
DC (6.25 IN)	2	165.0	58.0	18.96	
PUMPOUT SUB	1	157.0	58.0	1.02	
MONEL	2	167.0	73.0	18.89	
UBHO	1	164.0	73.0	0.92	
MOTOR HS	1	166.0	58.0	8.97	

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, 300H6465...	1,259.00	1,270.00	11.00	1.25	1.25	8.8	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
4	40	9,280	34,000	35,000	33,000	2,792.0	573.0
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

Casing Strings		
Casing Description	Run Date	Set Depth (mKB)

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

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	KB to Gnd (m) 5.20	
Total Depth All (TVD) (mKB)			

Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Clear	Temperature (°C) -33	Road Condition Fair	Hole Condition Good
Operations at Report Time RIH W/Directional Tools.		Operations Next Report Period RIH W/Directional tools, Circ btms up, Wash in + Get Gamma F/1270m to/1302m Bottom, Drill F/1302m to/1341m, Circ, Wiper trip 10 stds, circ, Pooh +strap out to log.	

Operations @ 06:00 Drilling ahead at 1303m.	Operations Summary Finished making up the core bbls. Run the hole with core bbl #7 to 489m. Serviced the rig and functioned the annular. Run to bottom with the core bbls to 1245m. Washed 2 singles to bottom and circulated bottoms up. Dropped the ball and cut core #7 from 1270m to 1302m. (Jammed Off). Break core and circulate on top of the core stump. Attempted to core ahead. Circulated bottoms up and then pumped a weighted pill. Pulled out of the hole to recover core. At surface recovered 32m of core from core barrels. Held safety meeting prior to Laydown core barrels, Function blind rams and flow check out of the hole. Held safety meeting with Directional + Rig Crew + Husky rep prior to pickup directional tools. Pickup Phoenix Directional Tools 7/8 Lobe 3 Stage motor set at 1.50 deg Bent Housing with MWD+Gamma and RIH W/Directional Tools.
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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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 0.0m3
Total invert losses: 29.1m3

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	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	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
00:00	1.75	1.75	01:45	4	CORING				CONTINUE TO MAKE UP BARRELS
01:45	3.00	4.75	04:45	6	TRIPS				RUN IN WITH CORE #7 30M PER /MIN FLOW CHECK AT 489M FILL PIPE
04:45	0.25	5.00	05:00	7	RIG SERVICE				RIG SERVICE F/T ANNULAR 6 SEC C/O
05:00	1.25	6.25	06:15	5	COND MUD & CIRC				WASH IN FR 1245M-TO-1270M CIRCULATE BOTTOMS UP,WITH HSE AT SHAKER
06:15	5.75	12.00	12:00	4	CORING				CUT CORE F/ 1270M - 1302.85M
12:00	0.25	12.25	12:15	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
12:15	0.50	12.75	12:45	4	CORING				CUT CORE F/ 1302.85 - 1302.95M
12:45	1.00	13.75	13:45	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
13:45	3.25	17.00	17:00	6	TRIPS				TRIPS POOH FLOW CHECK @ 1297M, 1242M, 650M, 182M, 71M
17:00	0.25	17.25	17:15	21	SAFETY MEETING				SAFETY MEETING WITH CORE HANDS ON HANDLING CORE
17:15	1.75	19.00	19:00	4	CORING				HANDLE CORE BRLS , CORE BARRELS LAY DOWN CORE # 7
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:15	0.25	19.50	19:30	21	SAFETY MEETING				PRE-JOB SAFETY WITH BAKER
19:30	1.75	21.25	21:15	4	CORING				HANDLE CORE BRLS CNT TO RECOVER AND LAY DOWN CORE BARRELS

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 1,366,745.44	Cum Cost To Date 4,376,291.06
Daily Mud Cost 653.94	Mud Additive Cost To Date 126,405.05
Depth Start (mKB) 1,270.00	Depth End (mKB) 1,302.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 32.00	
Depth Start (TVD) (mKB) 1,269.79	Depth End (TVD) (mKB)
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 540.00	Cum Pers Tot Hr (hrs) 9,580.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	Days RI (days)

Personnel Log

Company	Count	Total Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Apex Oilfield Services 2000 Inc.	1	12.00
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00
Baker Atlas	3	36.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/5/2012	3/6/2012

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)
	0.0	203.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.011	
Pres (kPa)	Slow Spd	Strokes (sp...) Eff (%)
	0	
#2, CONTINENTAL EMSCO, F800		
Pwr (kW)	Rod Dia (mm)	Stroke (mm)
	0.0	229.0
Liner Size (mm)	Vol/Stk OR (m³/stk)	
152.0	0.013	
Pres (kPa)	Slow Spd	Strokes (sp...) Eff (%)
2,200	Yes	59 95

Mud Additive Amounts

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

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,270.00	0.20	120.70	1,269.79

Well Name: LITTLE BEAR H-64

Time Log									
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
21:15	0.25	21.50	21:30	21	SAFETY MEETING				PRE-JOB SAFETY PRIOR TO MAKE UP DIR TOOLS
21:30	1.25	22.75	22:45	20	DIR. WORK				PICK UP DIRECTIONAL TOOLS
22:45	0.25	23.00	23:00	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS OUT OF HOLE 4 SEC C/O
23:00	1.00	24.00	00:00	6	TRIPS				RUN IN HOLE W/DIRECTIONAL TOOLS TO/550M

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	13:30	1,302.00	1225.0	48	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	7.500	12.000				13.1
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	82.0	18.0	266,597.003			1092.0
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	119.90	80.10		

Drill Strings

BHA #11, Drilling Assembly

Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm³)
11	222.0mm, 406C, 7134558	HUGHES	1-1-WT-A-X-0.00-NO-BHA	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)	
	1,302.00		5.6	

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	170.0	68.0	4.57	
Drill Pipe	1	101.6	70.0	9.29	
Drill pipe - Stands	60	101.6	70.0	1,115.05	
8-HWDP	1	101.6	68.0	72.64	
X/O	1	165.0	49.0	0.71	
4-DRILL COLLARS	1	165.0	49.0	37.93	
PUMP OUT SUB	1	157.0	58.0	1.02	
FLOAT X/O	1	157.0	58.0	0.46	
1-LEE JARS	1	171.0	72.0	2.15	
6- CORE BARRELS	1	171.0	137.0	57.74	

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	1,270.00	1,302.00	32.00	5.75	5.75	5.6	1.200
Hole, 300H6465...							
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	55	7,080	32,000	33,000	31,000	3,600.0	648.0
Q (g inj) (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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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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1340.8	

Primary Wellbore Affected
Original Hole, 300H64650012600

Weather Overcast	Temperature (°C) -25	Road Condition Fair	Hole Condition Good
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Operations at Report Time
Logging with Baker Atlas.

Operations @ 06:00
Logging with Baker Atlas.

Operations Summary
RIH W/Phoenix Directional Tools 7/8 Lobe 3 Stage motor set at 1.50 deg Bent Housing with MWD+Gamma to 1267m, Circulate bottoms up and then begin to wash in F/1267m to 1302m and logging gamma at the same time. Drill ahead 222mm Hole F/1302m To/1341m TD. Circulate two bottoms up, circulate hole clean. Wiper trip 10 stands and once back on bottom circulate work pipe condition hole prior to Trip out with directional tools and strap out of the hole (tally = 1341.00m, strap = 1340.20m, Diff = 0.80m). Held safety meeting w/Directional + Rig Crew + Husky Rep prior to laydown directional tools. Function Blind rams and flow check. Held safety meeting with Baker Atlas Loggers + Rig Crew + Husky Rep prior to rig up to log. Run #1 (HDIL, XMAC, ZDL, CN) Loggers bottom hole depth = 1340.56m. Monitor well all the time while logging. 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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 1.4m3
Total invert losses: 30.5m3

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	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.	Problem Time (hrs)	Problem Ref #	Comment
00:00	02:15	2.25	6	TRIPS			CONTINUE TO RUN IN HOLE W/DIRECTIONAL TOOLS
02:15	03:00	0.75	5	COND MUD & CIRC			CIRCULATE A BOTTOMS UP WITH HSE PRESENT
03:00	05:30	2.50	20	DIR. WORK			DIRECTIONAL WORK ,LOG GAMMA WASH TO BOTTOM, F/1267M-TO-1302M
05:30	05:45	0.25	7	RIG SERVICE			RIG SERVICE F/T ANNULAR 6 SEC C/O
05:45	07:00	1.25	2	DRILL			DRILL 222MM HOLE FR 1302M-TO- 1314M
07:00	07:15	0.25	21	SAFETY MEETING			SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	10:45	3.50	2	DRILL			DRILL 222MM HOLE FR 1314M TO 1341M
10:45	11:45	1.00	5	COND MUD & CIRC			CIRCULATE CLEAN HOLE PRIOR TO WIPER TRIP
11:45	12:00	0.25	6	TRIPS			WIPER TRIP 10 STANDS FLOW CHECKS @ 1328M
12:00	12:30	0.50	6	TRIPS			TRIP OUT OF HOLE WIPER TRIP 10 STANDS , FLOW CHECKS @ 1144M CAL .50 M3 MERS .97 M3 = DIFF .47 M3
12:30	13:00	0.50	6	TRIPS			TRIP IN HOLE RUN 10 STANDS TO BOTTOM
13:00	14:30	1.50	5	COND MUD & CIRC			CIRC COND HOLE PRIOR TO PULL OUT TO LOG
14:30	17:30	3.00	6	TRIPS			TRIP OUT OF HOLE TO LOG WELL ,PUMP PILL , FLOW CHECKS @ 1328M, 1264M, 674M, 159M OUT OF HOLE .. CAL 4.62 M3 - MERS 6.81 M3 = DIFF 2.19 M3

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 122,713.94	Cum Cost To Date 4,499,005.00
Daily Mud Cost 653.94	Mud Additive Cost To Date 127,058.99
Depth Start (mKB) 1,302.00	Depth End (mKB) 1,341.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 39.00	
Depth Start (TVD) (mKB) 1,301.79	Depth End (TVD) (mKB) 1,340.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 564.00	Cum Pers Tot Hr (hrs) 10,144.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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
R G Mallett Oilfield Enterprises	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00
Baker Atlas	5	60.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/6/2012	3/7/2012

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)	
	0.0	203.0	
Liner Size (mm)		Vol/Stk OR (m³/stk)	
152.0		0.011	
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		0	
# 2. CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)		Vol/Stk OR (m³/stk)	
152.0		0.013	
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
2,000	Yes	55	95

Mud Additive Amounts

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

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,289.96	0.50	114.50	1,289.75
1,341.00	0.50	114.50	1,340.79

Well Name: LITTLE BEAR H-64

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
17:30	0.25	17.75	17:45	21	SAFETY MEETING				SAFETY MEETING WITH DIRECTIONAL HANDS ON WORKING WITH THERE TOOLS
17:45	0.75	18.50	18:30	6	TRIPS				LAY DOWN DIRECTIONAL TOOLS
18:30	0.25	18.75	18:45	21	SAFETY MEETING				SAFETY MEETING WITH LOGGERS ON PICKING UP LOGGING TOOLS
18:45	0.25	19.00	19:00	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:00	5.00	24.00	00:00	11	WIRELINE LOGS				LOGGING - OPEN HOLE LOGS, RIG TO LOG, MONITOR WELL CONSTANTALLY, LOGGING RUN #1 (HDIL,XMAC,ZDL,CN,GR)

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	13:30	1,341.00	1240.0	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	7.500	12.500				14.2
MBT (kg/m³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
	82.0	18.0	261,449.010			1097.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
10.00	1.10	0.60	119.20	79.50		

Drill Strings

BHA #13, Drilling Assembly

Bit R - Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
12 RR 222.0mm, Mi516, JD1380	SMITH	1-1-WT-A-X-0.00-NO-LOG	
Nozzles (mm)	String Length (m)	String Wt (daN)	BHA ROP (m...)
	1,341.00		8.2

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly		170.0	68.0	11.77	
Drill pipe - Singles	1	101.6	70.0	9.22	
Drill pipe - Stands	63	101.6	70.0	1,171.72	
HWDP(4.0 IN)	8	101.6	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	163.0	71.0	6.97	
DC (6.25 IN)	2	165.0	58.0	18.96	
PUMPOUT SUB	1	157.0	58.0	1.02	
MONEL	2	167.0	73.0	18.89	
UBHO	1	164.0	73.0	0.92	
MOTOR HS	1	166.0	58.0	8.97	

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, 300H6465...	1,302.00	1,341.00	39.00	4.75	4.75	8.2	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
6,000	35	9,700	37,000	39,000	35,000	4,200.0	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 rim) (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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cu/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth Ali (TVD) (mKB) Original Hole - 1340.8	
Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Overcast	Temperature (°C) -25	Road Condition Fair	Hole Condition Good
Operations at Report Time Logging with Baker Atlas.		Operations Next Report Period Log w/Baker Atlas, RIH W/222mm Bit, Circ hole clean, Pooh laydown DP keep 500m in derrick, Rig to run csg.	
Operations @ 06:00 RIH W/222mm Bit		Operations Summary Logging w/Baker Atlas, Laydown Run #2 tools and Make up Run #3 (Flex, Mrex, DSL) This third run was at surface @ 23:30 hrs. Had to make up run #4 for a repeat (Flex, DSL). Held all safety crew change meetings with both crews, Rig Managers + Husky Reps.	

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 27m3.
Invert Delivered today = 0m3, Total at Tank Farm = 176.8m3

Daily invert losses: 0m3
Total invert losses: 30.5m3

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	3.25	3.25	03:15	11	WIRELINE LOGS				LOGGING W/BAKER ATLAS, RUN # 1 (HDIL, XMAC, ZDL, CN, GR)
03:15	3.75	7.00	07:00	11	WIRELINE LOGS				LOGGING W/BAKER ATLAS, RUN # 2 (CBIL, EI, ORIT)
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	4.75	12.00	12:00	11	WIRELINE LOGS				LOGGING W/BAKER ATLAS, RUN # 2 (CBIL, EI, ORIT)
12:00	6.75	18.75	18:45	11	WIRELINE LOGS				LOGGING W/BAKER ATLAS, RUN # 3 (FLEX, MREX, DSL)
18:45	0.25	19.00	19:00	7	RIG SERVICE				RIG SERVES CHECK DRIVE TRAN AND GREASE
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
19:15	4.25	23.50	23:30	11	WIRELINE LOGS				WIRELINE LOGS W/BAKER ATLAS # 3 (FLEX, MREX, DSL)
23:30	0.50	24.00	00:00	11	WIRELINE LOGS				WIRELINE LOGS MAKE UP RUN #4 (FLEX, DSL)

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)		

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

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 1,176,490.00	Cum Cost To Date 5,675,495.00
Daily Mud Cost	Mud Additive Cost To Date 127,058.99
Depth Start (mKB) 1,341.00	Depth End (mKB) 1,341.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,340.79	Depth End (TVD) (mKB) 1,340.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 552.00	Cum Pers Tot Hr (hrs) 10,696.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	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	4.00
R G Mallett Oilfield Enterprises	1	12.00
Sorus Consulting (1995) L	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
Continental Laboratories	2	24.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Baker Hughes	2	8.00
Husky	2	24.00
NEW VENDOR	1	12.00
Baker Atlas	5	60.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/7/2012	3/8/2012

Rigs

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

Mud Pumps

# 1, GARDNER DENVER, P28			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)	
		0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)	
		0	

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Well Name: LITTLE BEAR H-64

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/...

Survey Data

MO (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,341.00	0.40	129.70	1,340.79

Last 5 Formations

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

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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Hole Size (mm)

Max Nominal OD (mm)

244.5

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1340.8	

Primary Wellbore Affected
Original Hole, 300H64650012600

Weather Snowing	Temperature (°C) -18	Road Condition Fair	Hole Condition Good
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Operations at Report Time
Run 177.8mm Casing.

Operations Next Report Period
Run 177.8mm csg, Circ csg, Cement csg, Wait on cement 6 hrs, Set csg slips in tension, Cut csg, Lay out Bop, Install well head, Run bridge plug+set.

Operations @ 06:00
Cement 177.8mm Casing.

Operations Summary
Logging w/Baker Atlas, Had to make up run #4 for a repeat (Flex, DSL). Laydown loggers, Function blind rams and flow check. Make up 222mm Bit and trip in the hole, wash 2 singles to bottom. Circulate work pipe clean the hole. POOH keep 500m drill pipe in the derrick and laydown drill pipe. At surface pull wear bushing, Safety meeting with Hallmark Power tongs operators.
Run : Float shoe, 2-joints csg, Float collar, 116 joints of 177.8mm / 34.23 kg/m / L-80 / LT&C / New Jindal casing, Total Length = 1342.13m, Shoe set @ 1341m/KB. Float @ 1317.75m. ID = 161.7mm.

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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 22m3.
Invert Delivered today = 0m3, Total at Tank Farm = 35.8m3
Sent out today = 60.0m3, with Pro North to FT.Nelson, B.C.

Daily invert losses: 0.5m3
Total invert losses: 31.0m3

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	5.25	5.25	05:15	11	WIRELINE LOGS				WIRELINE LOGS / BAKER ATLAS RUN #4 (FLEX, DSL)
05:15	0.25	5.50	05:30	7	RIG SERVICE				RIG SERVICE F/T BLIND RAMS OUT OF HOLE
05:30	1.50	7.00	07:00	6	TRIPS				RUN IN HOLE FL;OW CHECK AND FILL PIPE AT CASING SHOE TRIP SPEED 30-35 METERS PER MIN AS PER HUSKY CONSULTANTS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	1.75	9.00	09:00	6	TRIPS				TRIP IN HOLE PICK UP SINGLES TO MAKE UP FOR TOOLS WASH 2 SINGLES TO BOTTOM
09:00	1.50	10.50	10:30	5	COND MUD & CIRC				CIRCULATE AND CONDITION TO COME OUT SIDEWAYS
10:30	1.50	12.00	12:00	6	TRIPS				TRIP OUT OF HOLE PULL 27 STANDS FOR BRIDGE PLUG FLOW CHECKS @ 1336M, 1281M, 857M
12:00	0.25	12.25	12:15	21	SAFETY MEETING				SAFETY MEETING ON LAYING DOWN STRING
12:15	1.25	13.50	13:30	6	TRIPS				LAY DOWN DRILL PIPE AND COLLARS FLOW CHECKS @ 691M,491M
13:30	0.25	13.75	13:45	21	SAFETY MEETING				SAFETY MEETING ON BRAKING KELLY DOWN AND FLUSHING
13:45	0.75	14.50	14:30	25					FLUSH AND BRAKE KELLY DOWN
14:30	1.75	16.25	16:15	6	TRIPS				LAY DOWN DRILL PIPE AND COLLARS FLOW CHECKS @ 120M, OUT OF HOLE, CAL 4.33 M3 - MESR 6.50 M3 = DIFF 2.17 M3

Cost Object Number US-51822-EX-02-DR-ID	Ong AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 267,599.76	Cum Cost To Date 5,906,662.09
Daily Mud Cost 4,636.51	Mud Additive Cost To Date 131,695.50
Depth Start (mKB) 1,341.00	Depth End (mKB) 1,341.00
Last Casing String Surface, 510.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,340.79	Depth End (TVD) (mKB) 1,340.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 576.00	Cum Pers Tot Hr (hrs) 11,272.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Sorus Consulting (1995) L	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Mcgrath Resource Consulting Ltd.	1	12.00
Horizon North Camps & Cal	5	60.00
NEW VENDOR	2	24.00
NEW VENDOR	1	12.00
NEW VENDOR	1	12.00
NEW VENDOR	2	24.00
Continental Laboratories	2	12.00
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	2	24.00
Husky	2	24.00
NEW VENDOR	1	12.00
Baker Atlas	5	60.00
Hallmark Technical Service	2	24.00
Nor-Chief Consulting Services Ltd.	1	12.00
Stream-Flo Industries Ltd.	1	12.00
Weatherford Completions Systems	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/8/2012	3/9/2012

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)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
		0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp.)	Eff (%)
1,225	Yes	50	95

Mud Additive Amounts

Description	Cost (/unit)	Consumed
VERSACOAT HF	900.76	1.0

Well Name: LITTLE BEAR H-64

Time Log

Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U...	Problem Time (hrs)	Problem Ref #	Comment
16:15	0.75	17.00	17:00	25					PULL WEAR BUSHING LAY STUFF DOWN FROM FLOOR WHILE WAITING ON POWER TONG GUYS TO GET HERE
17:00	1.50	18.50	18:30	12	RUN CASING AND CEMENT				RIG UP TO RUN CASING
18:30	0.25	18.75	18:45	21	SAFETY MEETING				SAFETY MEETING WITH POWER TONG GUYS ON RUNNING THERE POWER TONGS
18:45	0.25	19.00	19:00	12	RUN CASING AND CEMENT				RUN CASING MAKE UP SHOE AND FLOAT
19:00	0.25	19.25	19:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING WITH OTHER CREW
19:15	4.75	24.00	00:00	12	RUN CASING AND CEMENT				RUN FLOAT SHOE, 2 JTS CSG, FLOAT COLLAR, 116 JTS OF 177.8mm / 34.23kg/m / L-80 / LT&C / NEW JINDAL CASING, TOTAL LENGTH=1342.13m, SET @ 1341m, FLOAT @ 1317.75m.

Mud Checks

Type	Time	Depth (mKB)	Density (kg/m³)	Vis (s/L)	Plastic Visc (cp)	Yield Point (Pa)
Invert	09:30	1,341.00	1260.0	56	14.0	4.000
Gel 10 sec (Pa)						
3.500	8.500	13.500	Filtrate (mL/30min)	Filter Cake (mm)	pH	Solids (%)
						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	242,164.001			917.0
Whole Mud Added (m³)	Mud Lost to Hole (m³)	Mud Lost to Surface (m³)	Reserve Mud Volume (m³)	Active Mud Volume (m³)		
	0.50	0.00	118.80	79.20		

Drill Strings

BHA #13, Drilling Assembly

Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm²)
13RR	222.0mm, EHT11, JR7647	J&L	2-2-WT-A-X-0-NO-TD	380
Nozzles (mm)	12.7/12.7/12.7	String Length (m)	String Wt (daN)	BHA ROP (m...
		1,341.00		

Drill String Components

Item Description	Jts	OD (mm)	ID (mm)	Len (m)	Top Thread
Kelly	1	170.0	68.0	7.68	
Drill pipe - Stands	65	101.6	70.0	1,214.20	
HWDP(4.0 IN)	8	101.0	68.0	72.64	
X/O	1	165.0	73.0	0.71	
DC (6.25 IN)	2	165.0	58.0	18.97	
JARS-HYD/MECH	1	163.0	71.0	6.97	
DC (6.25 IN)	2	165.0	58.0	18.96	
BIT SUB	1	157.0	58.0	0.62	

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, 300H6465...	1,341.00	1,341.00		0.00			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
0		8,775	33,000	34,000	32,000	0.0	598.0
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
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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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Mud Additive Amounts

Description	Cost (/unit)	Consumed
VERSAMUL	862.55	1.0
CLEAN-UP	83.25	8.0
LIME	12.13	10.0
D-D (W/SPOUT)	46.12	10.0
TRUVIS	162.47	10.0

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,341.00	0.40	129.70	1,340.79

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 H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m)	Total Depth All (TVD) (mKB) Original Hole - 1340.8	
Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Snowing	Temperature (°C) -23	Road Condition Fair	Hole Condition Good
Operations at Report Time Laying down Drill Pipe.		Operations Next Report Period Put Cap on Well Head, Pressure Test Bridge plug to 21,000 kPa for 10 mins, Rig out for move South.	
Operations @ 06:00 Rig out for move.		Operations Summary Finishing running 177.8mm casing, wash last two jts in and tag bottom @ 1341m. 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: 14.8 tonne (19.6 m3) HiLite 1400 + additives. Tail: 15.2 tonnes (11.2 m3) G + additives. Displaced w/ 27.8 m3 water with 0.8% (200 liters or 10 pails) KI3908 inhibitor. Plug down @ 07:00 hr, Mar 9, 2012. 7.0 m3 of good cement returns, and had good returns through out cement job. Bump plug 3,500 kPa over to 13966 kPa, increased after 3 mins to 21,000 kPa held 10 minutes for pressure test on casing. Bleed off, Floats Held. Wait on cement for 6 hours, Pickup bop and set casing slips in tension with 32,000 dan with Streamflo tech, cut casing and nipple down bops. Dress casing and install tubing spool. Pressure test seals to 14,000 kPa, (2,000 PSI), held good. Safety meeting with Weatherford tool tech. Make up bridge plug and run in hole on Drill pipe. Tie in Schlumberger and set bridge plug @ 475m KB. Lay down drill pipe. 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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64

Base Oil Delivered today = 0m3, Total at Tank Farm = 22m3.

Invert Delivered today = 0m3, Total at Tank Farm = 0m3.

Sent out today = 120.0m3, with Pro-North to FT.Nelson, B.C.

Total Invert sent out = 180m3.

Daily invert losses: 0.0m3
Total invert losses: 31.0m3

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	12	RUN CASING AND CEMENT				RUN FLOAT SHOE, 2 JTS CSG, FLOAT COLLAR, 116 JTS OF 177.8mm / 34.23kg/m / L-80 / LT&C / NEW JINDAL CASING, TOTAL LENGTH=1342.13m, SET @ 1341m, FLOAT @ 1317.75m.
02:15	2.00	4.25	04:15	5	COND MUD & CIRC				CONDITION MUD & CIRCULATE
04:15	0.25	4.50	04:30	21	SAFETY MEETING				SAFETY MEETING WITH SCHLUMBERGER PRIOR TO CEMENT JOB
04:30	2.50	7.00	07:00	12	RUN CASING AND CEMENT				CEMENT 177.8mm CASING W/ SCHLUMBERGER, PLUG DOWN @ 7:00HRS, 7m3 OF GOOD CEMENT RETURNS
07:00	0.25	7.25	07:15	21	SAFETY MEETING				SAFETY MEETING CREW CHANGE MEETING W/ RIG CREW+RM+HUSKY REP
07:15	1.00	8.25	08:15	12	RUN CASING AND CEMENT				PRESS TEST CSG TO 21,000 KPA FOR 10 MINS, OKEY, CLEAN AND RIG OUT CEMENTERS
08:15	3.75	12.00	12:00	23	WAITING ON				W/O CEMENT
12:00	2.00	14.00	14:00	23	WAITING ON				W/O CEMENT, SET CASING SLIPS IN TENSION W/32,000 dan
14:00	0.25	14.25	14:15	25					CUT CASING, CLEAN UP RUFF CUT
14:15	0.75	15.00	15:00	14	NIPPLE UP B.O.P.				NIPPLE DOWN BOPS LAY OUT BOPS

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status	Spud Date 2/19/2012 11:30
Daily Cost Total 2,900,860.99	Cum Cost To Date 8,807,523.08
Daily Mud Cost -76,344.21	Mud Additive Cost To Date 54,791.29
Depth Start (mKB) 1,341.00	Depth End (mKB) 1,341.00
Last Casing String Production, 1,341.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,340.79	Depth End (TVD) (mKB) 1,340.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 600.00	Cum Pers Tot Hr (hrs) 11,872.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	Days RI (days)

Personnel Log

Company	Count	Tot Time (hrs)
Nabors Drilling Limited	15	180.00
Mi Swaco	1	12.00
Sorus Consulting (1995) L	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Mcgrath Resource Consulting Ltd.	1	6.00
Nor-Chief Consulting Services 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
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Phoenix Technology Services LP	1	6.00
Husky	2	24.00
NEW VENDOR	1	12.00
Hallmark Technical Service	2	12.00
Stream-Flo Industries Ltd.	1	12.00
Weatherford Completions Systems	1	12.00
NEW VENDOR	4	48.00
NEW VENDOR	6	72.00
NEW VENDOR	1	12.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/9/2012	3/10/2012

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)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		0	
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp...)	Eff (%)
		0	

Well Name: LITTLE BEAR H-64

Time Log								
Start Time	Dur (hrs)	Cum Dur (hrs)	End Time	Activity Code	Activity Desc.	Prob/U	Problem Time (hrs)	Problem Ref #
15:00	0.25	15.25	15:15	7	RIG SERVICE			
15:15	3.75	19.00	19:00	14	NIPPLE UP B.O.P.			
19:00	0.25	19.25	19:15	21	SAFETY MEETING			
19:15	0.25	19.50	19:30	21	SAFETY MEETING			
19:30	2.25	21.75	21:45	6	TRIPS			
21:45	0.25	22.00	22:00	21	SAFETY MEETING			
22:00	0.25	22.25	22:15	25				
22:15	1.75	24.00	00:00	6	TRIPS			

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)		

Drill Strings			
Bit R...	Drill Bit	Make	IADC Bit Dull
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 Drift 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 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				

Casing Strings		
Casing Description	Run Date	Set Depth (mKB)
Production	3/9/2012	1,341.00
Comment		
Ran : Float shoe, 2-joints csg, Float collar 116 joints of 177.8mm / 34.23 kg/m / L-80 / LT&C / New Jindal casing, Total Length = 1342.13m, Shoe set @1341m/KB. Float @ 1317.75m. ID = 161.7mm.		

Casing Components							
Item Description	Make	OD (mm)	Grade	Wt (kg/m)	Joints	Cum Len (m)	Top (mKB)
Casing Joints	Make	177.8	L-80	34.228	116	1,342.13	-1.13
Float Collar	Make	177.8	L-80	34.228	1	23.60	1,317.40
Casing Joints	Make	177.8	L-80	34.228	2	23.25	1,317.75
Float Shoe	Make	177.8	L-80	34.228	1	0.44	1,340.56

Mud Additive Amounts		
Description	Cost (/unit)	Consumed
INVERT	2,172.51	-37.0
FED ZAN D	105.76	1.0
OPTISEAL III	70.20	2.0
FED RHEOSMART	42.76	2.0
FEDERAL GEL	12.43	21.0
SAWDUST	4.12	39.0
FED WATE (BARITE)	15.57	211.0

Survey Data			
MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,341.00	0.40	129.70	1,340.79

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

Hole Size (mm)	
Max Nominal OD (mm)	177.8

Well Name: LITTLE BEAR H-64

Licensed UWI 300H64650012600	Surface Legal Location 300H64650012600	License No. 462	State/Province N.W.T
Sour Class Sweet	ERP Required No	Lahee Classification TH (C)	Business Unit Canada Frontier - Exploration
Initial Ground Elevation (m) 178.00	Cut/Fill (m) 0.0	Ground Elev. (m) 178.00	KB Elevation (m) 183.20
KB-Casing Flange Distance (m) 5.47	KB-Tubing Head Distance (m) 5.00	Total Depth All (TVD) (mKB) Original Hole - 1340.8	
Primary Wellbore Affected Original Hole, 300H64650012600			
Weather Overcast	Temperature (°C) -29	Road Condition Fair	Hole Condition Good
Operations at Report Time Wait on Daylight.		Operations Next Report Period Tear + load out rig + rentals etc.	
Operations @ 06:00 Wait on Daylight to continue load out rig.		Operations Summary Install wellhead top section, Held prejob safety meeting prior to press test bridge plug to 21,000 kpa hold for 10 mins, okay. Rig down rig floor + steam clean. Tear out rig + lower derrick for move, Held safety meeting prior to tear out rig with trucks, Haul heavy loads to campsite by bed trucks to be loaded for transport south. Wait on daylight to continue move. Held all safety crew change meetings with both crews, Rig Managers + Husky Reps. Rig Release Saturday March 10th/2012 @ 23:59 hrs. Combination Lock for wellhead is 5182.	

Remarks
o 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 Husky Camp Site. Continue on the Husky Winter Rd to km 44 Turn left and continue to km 46. Keep left and go to location at km 47. All roads are RADIO CONTROLLED.

Tank Farm delivered for Little Bear H-64
Base Oil Delivered today = 0m3, Total at Tank Farm = 22m3.
Invert Delivered today = 0m3, Total at Tank Farm = 0m3.

Total Invert sent out = 180m3

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 #	Comment
00:00	1.50	1.50	01:30	14	NIPPLE UP B.O.P.			PUT WELLHEAD CAP ON
01:30	0.25	1.75	01:45	21	SAFETY MEETING			PRE-JOB SAFETY WITH CEMENTERS ON PRESSURE TESTING CSG
01:45	0.25	2.00	02:00	15	TEST B.O.P.			PRESS TEST BRIDGE PLUG W/ CEMENT TRUCK TO 21,000 KPA F/ 10 MINS, OKAY.
02:00	5.00	7.00	07:00	22	TEAR DOWN			TEAR DOWN FLOOR STEAM AND CLEAN EQUIPMENT FOR TRANSPORT
07:00	0.25	7.25	07:15	21	SAFETY MEETING			SAFETY MEETING FOR SHIFT CHANGE HELD W/ BOTH CREWS, R.M. AND OPERATORS REP
07:15	0.25	7.50	07:30	21	SAFETY MEETING			SAFETY MEETING W/MULLEN TRCKING COMPANY
07:30	4.50	12.00	12:00	22	TEAR DOWN			RIG OUT RIG TOP MOVE BACK TO EDSON TO RACK / TRUCKS ON LOCATION@ 7:00/ MOVE RENTAL EQUIPMENT OFF LOCATION
12:00	1.00	13.00	13:00	22	TEAR DOWN			RIG OUT TO RACK IN EDSON
13:00	6.00	19.00	19:00	1	RIGUP & TEARDOWN			MOVE RIG OFF LOCATION AND HAUL TO CAMPSITE LOCATION TO LOAD UP FOR MOVE BACK TO EDSON
19:00	0.25	19.25	19:15	21	SAFETY MEETING			SAFETY MEETING W/BOTH CREWS, R.M. AND OPERATORS REP
19:15	1.75	21.00	21:00	1	RIGUP & TEARDOWN			MOVE MATS OFF OF HOLE CENTER & STACK UP TO GET READY TO LOAD UP
21:00	3.00	24.00	00:00	25	Other			CLEAN UP AROUND LOCATION

Cost Object Number US-51822-EX-02-DR-ID	Orig AFE Sup Am 11,529,266.00
Primary Job Type Initial Drilling	
Start Date 2/18/2012	End Date
Final Status Drilled & Cased	Spud Date 2/19/2012 11:30
Daily Cost Total 295,972.00	Cum Cost To Date 9,103,495.08
Daily Mud Cost	Mud Additive Cost To Date 54,791.29
Depth Start (mKB) 1,341.00	Depth End (mKB) 1,341.00
Last Casing String Production, 1,341.00mKB	
Depth Progress (m) 0.00	
Depth Start (TVD) (mKB) 1,340.79	Depth End (TVD) (mKB) 1,340.79
Target Formation Canol	Est Total Depth (mKB) 1,412.00
Personnel Total Hours (hrs) 704.00	Cum Pers Tot Hr (hrs) 12,576.00
Time Log Total Hours (hrs) 24.00	Problem Time Hours (hrs)
Problem Time (%)	Cum Problem Time (%)
Days LTI (days)	Days RI (days)

Personnel Log

Company	Count	Total Time (hrs)
Nabors Drilling Limited	15	180.00
Sorus Consulting (1995) L	1	12.00
Hessdorfer Consulting Ltd.	1	12.00
Nor-Chief Consulting Services 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
Hse Integrated Ltd.	1	12.00
Frontier	1	12.00
Husky	2	24.00
NEW VENDOR	1	12.00
Stream-Flo Industries Ltd.	1	12.00
Weatherford Completions Systems	1	12.00
NEW VENDOR	4	24.00
NEW VENDOR	3	36.00
NEW VENDOR	1	12.00
Mullen Trucking Inc.	20	200.00

Safety Check Summary

Type	Last Date	Next Date
Safety Meeting	3/10/2012	3/11/2012

Rigs

Contractor Nabors Drilling	Rig Number 23
Rig Supervisor Troy Preuss	Phone Mobile
Rig Release Date 3/10/2012 23:59	

Mud Pumps

# 1, GARDNER DENVER, PZ8			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	203.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.011		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)	
	0		
# 2, CONTINENTAL EMSCO, F800			
Pwr (kW)	Rod Dia (mm)	Stroke (mm)	
	0.0	229.0	
Liner Size (mm)	Vol/Stk OR (m³/stk)		
152.0	0.013		
Pres (kPa)	Slow Spd	Strokes (sp... Eff (%)	
	0		

Mud Additive Amounts

Description	Cost (/unit)	Consumed

Survey Data

MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
1,341.00	0.40	129.70	1,340.79

Well Name: LITTLE BEAR H-64

Mud Checks						
Type	Time	Depth (mKB)	Density (kg/m ³)	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/m ³)	Percent Oil (%)	Percent Water (%)	Chlorides (mg/L)	Calcium (mg/L)	Potassium (mg/L)	Electric Stab (V)
Whole Mud Added (m ³)	Mud Lost to Hole (m ³)	Mud Lost to Surface (m ³)	Reserve Mud Volume (m ³)	Active Mud Volume (m ³)		

Drill Strings					
Bit R...	Drill Bit	Make	IADC Bit Dull	TFA (incl Noz) (mm ²)	
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) (m ³ /min)	
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) (m ³ /min)	T (in) (°C)	P (BH Ann) (kPa)	T (bh) (°C)	P(Surf Ann) (kPa)	T (surf ann) (°C)	Q (liq rtn) (m ³ /...	Q (g return) (m ³ /...	

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)	177.8