



File: OA-1204-002  
WID# 2076 & 2077

22 December 2011

Mr. Kim Richardson  
Drilling Superintendent  
Husky Oil Operations Limited  
707 – 8th Avenue S.W.  
Box 6525, Station D  
Calgary, AB T2P 3G7

Dear Mr. Richardson:

**Operations Authorization (OA) and Approval to Drill a Well (ADW) Applications for Husky Little Bear N-09 and Husky Little Bear H-64 Well**

Thank you for the submission of the Husky OA and ADW applications and subsequent filings. Please find attached approved OA and ADW for the proposed activity. Please note that the terms and conditions for the OA are provided in Attachment No. 1. The ADW terms and conditions are provided in Attachment No. 2 and are also subject to the OA terms and conditions. Any change or deviation from the approved program will require the additional specific approval of the Chief Conservation Officer.

Please notify National Energy Board (NEB) no less than 24 hours prior to the commencement of the well operations.

Please be reminded that all oil and gas activities are to meet the requirements of the *Canada Oil and Gas Drilling and Production Regulations*, the *Oil and Gas Occupational Safety and Health Regulations* and *Canada Labour Code, Part II*.

Please ensure the NEB 24/7 incident cell number 403-807-9473 is listed as the number to call in the event of an incident and the NWT-Nunavut 24-hour Spill Report Line number 867-920-8130 is listed as the number to call in the event of a reportable spill.

If you have any questions, please contact Abul Kabir at 403-292-5048.

Yours truly,

John McCarthy  
Chief Conservation Officer  
Attachments (2)

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**Attachment No. 1**  
**Husky Oil Operations Limited (Husky)**  
**Operations Authorization Terms and Conditions for**  
**OA-1204-002**

1. Husky shall cause the approved Project to be constructed and operated in accordance with the specifications, standards and other information referred to in its application and subsequent submissions.
2. Unless otherwise directed by the Chief Conservation Officer, Husky shall implement or cause to be implemented all of the policies, practices, mitigative measures, recommendations and procedures for the protection of the environment included in or referred to in the operator's application, subsequent submissions and committed to by Husky during the environmental assessment process under the Mackenzie Valley Resource Management Act.
3. Husky shall submit an updated environmental protection plan ten (10) working days prior to the start of any operations requiring well approval where there have been any changes to the elements as defined in subsections 9(a) to 9(k) of the *Canada Oil and Gas Drilling and Production Regulations*.
4. Husky shall submit an updated safety plan ten (10) working days prior to the start of any operations requiring a well approval where there have been any changes to the elements as defined in subsections 8(a) to 8(h) of the *Canada Oil and Gas Drilling and Production Regulations*.
5. Husky shall request approval from the Chief Conservation Officer of any proposed changes or deviations to the authorized program, work or activities.

**Attachment No. 2**  
**Husky Oil Operations Limited (Husky)**  
**Approval to Drill a Well Terms and Conditions for**  
**Husky Little Bear N-9 and Husky Little Bear H-64**

1. Daily geological reports (including descriptions, strip logs and gas detection readings) and drilling reports are to be emailed to [dailyreports@neb-one.gc.ca](mailto:dailyreports@neb-one.gc.ca) or faxed daily by 8:30 am to the attention of the Chief Conservation Officer (fax number 403-292-5876). Please contact Lori Ann Sharp at 403-299-1994 should there be any difficulty in delivery of the daily drilling reports.
2. A copy of the *Canada Oil and Gas Drilling and Production Regulations* as well as the *Oil and Gas Occupational Safety and Health Regulations* are to be kept at the well site and available on request by any person at the well site (Section 17 of the *Canada Oil and Gas Drilling and Production Regulations* and paragraph 125(1)(e) of the *Canada Labour Code*, Part II, respectively).
3. Husky shall inform the Board of any key personnel and field personnel updates to the contact list as they become available or are changed.
4. Well completion, suspension or abandonment operations are required to meet the requirements of the *Canada Oil and Gas Drilling and Production Regulations*. Upon program termination, a "Well Termination Record" is to be submitted within 30 days after the end of the well operation.
5. If the wells are to be suspended, Husky shall ensure the wells are monitored and inspected annually to maintain its continued integrity and to prevent pollution.
6. Please submit two paper copies and one electronic (on CD/DVD, in PDF format) of all the data for the "Well History Report" within 90 days from rig release. In addition, please submit one LAS copy of final log prints on compact disc. Please ensure compact discs are maximized and submitted with the Well History Report.
7. Please include a quantitative report on potable water zones for the N-9 and H-64 well locations with the Well History Report.
8. The Well History Report must include a final well survey signed by a Canada Land Surveyor.
9. NEB drill cutting requirements are as follows: 1 set unwashed, 1 kg of cuttings (8 by 11 inch bag), 2 sets clean washed vial sets. All samples and core are to be delivered to the Geological Survey of Canada in Calgary at 3303 33<sup>rd</sup> Street NW, to the attention of the Head – Core and Sample Repository. A copy of the sample transmittal letters are to be forwarded to the Chief Conservation Officer at the National Energy Board.

National Energy  
Board



Office national  
de l'énergie

## NEB Contacts for COGO Act-regulated Work or Activities

### INCIDENT PHONE NUMBERS

\* Hazardous occurrences (under Part XVI of the *Canada Oil and Gas Occupational Safety and Health Regulations*) and incidents requiring medical evacuation are to be reported to the NEB immediately.

**NEB 24-hour Incident Cell: 403-807-9473**

**NWT/Nunavut Spill Line Phone: (867) 920-8130**

**NWT/Nunavut Spill Line Fax: (867) 873-6924**

**Transportation Safety Board Hotline: (819) 997-7887**

NEB Operations Staff	Internet	Telephone Numbers
<b>Rick Turner</b> Operations Technical Specialist Safety & Conservation Officer	<a href="mailto:rick.turner@neb-one.gc.ca">rick.turner@neb-one.gc.ca</a>	Work: 403-299-3868 Cell: 403-540-3754
<b>Lori Croal</b> Operations Inspector Safety Officer	<a href="mailto:lori.croal@neb-one.gc.ca">lori.croal@neb-one.gc.ca</a>	Work: 403-221-3290 Cell: 403-519-9889
<b>Karen Duckworth</b> Operations Specialist Safety & Conservation Officer	<a href="mailto:karen.duckworth@neb-one.gc.ca">karen.duckworth@neb-one.gc.ca</a>	Work: 403-299-3669 Cell: 403-710-8254
<b>Abul Kabir</b> Drilling Engineer Conservation Officer	<a href="mailto:abul.kabir@neb-one.gc.ca">abul.kabir@neb-one.gc.ca</a>	Work: 403-292-5048 Cell: 403-510-5754
<b>Saadat Javeed</b> Drilling Engineer Conservation Officer	<a href="mailto:saadat.javeed@neb-one.gc.ca">saadat.javeed@neb-one.gc.ca</a>	Work: 403-221-3033 Cell: 403-680-5861
Environment and Spill Reporting	Internet	Telephone Numbers
<b>Susan Measor</b> A/Team Leader Conservation of Resources	<a href="mailto:susan.measor@neb-one.gc.ca">susan.measor@neb-one.gc.ca</a>	Work: 403-221-3272 Cell: 403-614-3396
<b>John Korec</b> Environmental Specialist Conservation Officer	<a href="mailto:john.korec@neb-one.gc.ca">john.korec@neb-one.gc.ca</a>	Work: 403-292-6614 Cell: 403-818-2403
<b>Christy Wickenheiser</b> Environmental Specialist Conservation Officer	<a href="mailto:christy.wickenheiser@neb-one.gc.ca">christy.wickenheiser@neb-one.gc.ca</a>	Work: 403-299-3869 Cell: 403-809-9352
Chief Conservation & Safety Officers	Internet	Telephone Numbers
<b>John McCarthy</b> Business Leader, Strategy and Analysis Chief Conservation Officer	<a href="mailto:john.mccarthy@neb-one.gc.ca">john.mccarthy@neb-one.gc.ca</a>	Work: 403-299-3646 Cell: 403-560-9443
<b>Brian Nesbitt</b> Technical Leader, Engineering Chief Safety Officer	<a href="mailto:brian.nesbitt@neb-one.gc.ca">brian.nesbitt@neb-one.gc.ca</a>	Work: 403-299-2771 Cell: 403-629-6362
<b>NEB OPERATIONS PHONE NUMBERS</b>	Main Office: Operations Fax: Alternate Fax:	403-292-4800 <b>403-292-5876</b> 403-292-5875





OCT 27 2011

## OPERATIONS AUTHORIZATION

## APPLICATION

HUSKY OIL OPERATIONS LTD

(Name of Operator)

Hereby applies for authorization of a proposed:

☒ Drilling Program    ☐ Production Program    ☐ Installation/Removal Program    ☐ Other  
Please Specify:

under paragraph 5(1)(b) of the *Canada Oil and Gas Operations Act* (R.S.C., 1985, c. O-7) and Part 2 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315) using equipment and procedures described in the application.

Changes in equipment or procedures, outside the scope of this application, require the approval of the Board in order that this authorization remains valid. An approved copy of this notice is to be posted at each work site and is subject to the terms and conditions attached to this authorization.

Licence No.    Select EL462 and EL463    NEB Operating Licence No.    1204

Region    NWT Mainland

Field    SLATER RIVER

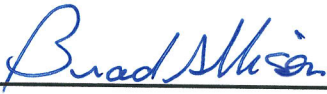
Anticipated date of commencement    DECEMBER 2011    Proposed Duration    4 months

Scope of Work    Construction of winter access road, campsite and 2 well sites locations  
Drilling and evaluation (core and log) of 2 exploration wells, Little Bear N-9 and  
Little Bear H-64 in Slater River area of NWT

"I certify that the information provided on this form is true and correct"

Name    Brad Allison    Telephone    (403) 750-1515 Ext

Job Designation    Vice President Exploration    E-Mail    brad.allison@huskyenergy.com

Signature        Date    Oct 24, 2011  
Responsible Officer of Company

## NATIONAL ENERGY BOARD AUTHORIZATION

(Board Use Only)

The operator named above is hereby authorized under paragraph 5(1)(b) of the *Canada Oil and Gas Operations Act* (R.S.C., 1985, c. O-7) and is subject to the terms and conditions attached to this authorization.

Chief Conservation Officer

Job Designation

Signature        Date    22 Dec 2011  
NEB Authority

Operation Authorization (OA) No.    OA-1204-002

Expiry Date    31 December 2012



APPROVAL TO DRILL A WELL

APPLICATION

This application is submitted under Section 10 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315). When granted under Section 13 of the Regulations, this form is the requisite approval for the commencement of well operations. An approved copy of this notice is to be posted at each drill site.

Well Name	Little Bear H-64	Operator	Husky Oil Operations Limited
Well Type	Exploratory Well	If Other Type, please specify	
NEB Operating Licence No.	1204	Operations Authorization No.	
Drilling Rig or Unit	Nabors 23	Contractor	
Licence No.	Exploration Licence 462	Estimated Well Cost	\$18,800,000
Station Keeping	Not Applicable	Land Structure	Conventional Land
Land Use Permit No.		Issued by:	Sahtu Land and Water Board
Water Licence No.		Issued by:	Sahtu Land and Water Board
Location	Unit H	Section 64	Grid
Coordinates (NAD 27)	Surface	Lat 64 ° 53 ' 28.5 "	Long 126 ° 11 ' 20.3 "
	Bottom Hole	Lat 64 ° 53 ' 28.5 "	Long 126 ° 11 ' 20.3 "
Region	NWT Mainland		
Target Formation	Canol / Hume	Field/Pool	Slater River /
Well Path	Vertical	Discovery Well	
Elevation KB/RT	183.5 m	Ground Level / Seafloor	178.5 m
Approximate Spud Date	20 February 2012	Est. Days on Location	25 days
Anticipated Total Depth	1412 m KB		

EVALUATION PROGRAM

Sample Type	Top to Bottom Interval (m KB)	Sample Interval (m)	Comments
Drill Cuttings	surface-1412	5.0	NEB: 2 vial sets and 1 bag set 500g minimum.
Drill Cuttings	Surface-819	5.0	GSC Bagged samples to base of Cretaceous (819m TVD)
Conventional Cores	1220-1370	Other	Cut core in Lower Canol, Hare Indian and Bluefish formation
Logs and Tests	650-1412	Other	CNL-LDT-GR, Sonic,Array Induction&GR /CNL across surface csg
Logs and Tests	1150-1412	Other	ECS, Sonic Scanner, NMR

CASING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)
508	Conductor Pipe	ASTM A 53	+/-30
244.5	53.6	J-55	630
177.8	34.2	L-80	1412

Additional Information

"I certify that the information provided on this form is true and correct"

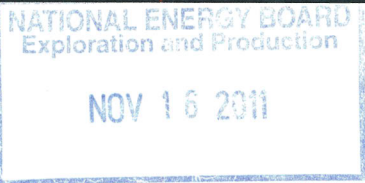
Name	Kim Richardson	Telephone	(403)-298-7273
Job Designation	Drilling Superintendent	E-Mail	kim.richardson@huskyenergy.com
Operator	Husky Oil Operations Limited		
Signature		Date	15 November, 2011
	Responsible Officer of Company		

NATIONAL ENERGY BOARD APPROVAL

(Board Use Only)

This well approval is granted under section 13 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315) and is subject to the terms and conditions attached to this approval and Operations Authorization No. OA-1204-002.

Job Designation	Chief Conservation Officer	Well Identifier	2077	Unique Well Identifier	300H64500126000
Signature		Date	22 Dec 2011		
	NEB Authority				







APPROVAL TO DRILL A WELL

APPLICATION

This application is submitted under Section 10 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315). When granted under Section 13 of the Regulations, this form is the requisite approval for the commencement of well operations. An approved copy of this notice is to be posted at each drill site.

Well Name	Little Bear N-9	Operator	Husky Oil Operations Limited
Well Type	Exploratory Well	If Other Type, please specify	
NEB Operating Licence No.	1204	Operations Authorization No.	
Drilling Rig or Unit	Nabors 23	Contractor	
Licence No.	Exploration Licence 463	Estimated Well Cost	\$20,200,000
Station Keeping	Not Applicable	Land Structure	Conventional Land
Land Use Permit No.		Issued by:	Sahtu Land and Water Board
Water Licence No.		Issued by:	Sahtu Land and Water Board
Location	Unit N	Section 9	Grid
Coordinates (NAD 27)	Surface	Lat 64 ° 58 ' 55.2 "	Long 126 ° 31 ' 20.2 "
	Bottom Hole	Lat 64 ° 58 ' 55.2 "	Long 126 ° 31 ' 20.2 "
Region	NWT Mainland		
Target Formation	Canol / Hume	Field/Pool	Slater River /
Well Path	Vertical	Discovery Well	
Elevation KB/RT	258 m	Ground Level / Seafloor	253 m
Approximate Spud Date	20 January 2012	Est. Days on Location	25 days
Anticipated Total Depth	1770 m KB		

EVALUATION PROGRAM

Sample Type	Top to Bottom Interval (m KB)	Sample Interval (m)	Comments
Drill Cuttings	surface-1770	5.0	NEB: 2 vial sets and 1 bag set 500g minimum.
Drill Cuttings	Surface-1190	5.0	GSC Bagged samples to base of Cretaceous (1190m TVD)
Conventional Cores	1580-1720	Other	Cut core in Lower Canol, Hare Indian and Bluefish formation
Logs and Tests	650-1770	Other	CNL-LDT-GR, Sonic,Array Induction&GR /CNL across surface csg
Logs and Tests	1550-1770	Other	ECS, Sonic Scanner, NMR

CASING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)
508	Conductor Pipe	ASTM A 53	+/-30
244.5	53.6	J-55	650
177.8	34.2	L-80	1770

Additional Information

"I certify that the information provided on this form is true and correct"

Name	Kim Richardson	Telephone	(403) 298-7273
Job Designation	Drilling Superintendent	E-Mail	kim.richardson@huskyenergy.com
Operator	Husky Oil Operations Limited		
Signature		Date	15 November, 2011
	Responsible Officer of Company		

NATIONAL ENERGY BOARD APPROVAL

(Board Use Only)

This well approval is granted under section 13 of the *Canada Oil and Gas Drilling and Production Regulations* (SOR/2009-0315) and is subject to the terms and conditions attached to this approval and Operations Authorization No. 0A-1204-002.

Job Designation	Chief Conservation Officer	Well Identifier	2076	Unique Well Identifier	300 N096500126300
Signature		Date	22 Dec 2011		
	NEB Authority				