



NWT Emergency Response Plan

Obsidian Energy LTD

C-31-6040-12330

K-32-6010-12315

1-877-792-2990

WELL INFORMATION SUMMARY	
Well Name / Location:	C-31-6040-12330 K-32-6010-12315
Project Description:	Abandonment and Reclamation
Distance to Nearest Urban Centre:	C31- Fort Liard is approx. 30 km SSE of the site K32- Fort Liard is approx. 38Km N of the site
General Land Use:	The site is located in a remote forested location.
Anticipated Start Date:	January 2021
Estimated Total Numbers of Days on Well:	Abandonment: 3 – 5 days Reclamation: ~10 days/year
Well Classification:	Non-critical sour well
Emergency Planning Zone*:	0.01 km
Obsidian Emergency Contact Number	1-877-792-2990
The Office of the Regulator of Oil and Gas Operations (OROGO) Incident Report Line	(867) 445-8551

SCOPE

The primary goal for Obsidian Energy's Emergency Management program is to maximize the use of Obsidian Energy, Government and outside resources in:

- Ensuring an immediate and competent response to an emergency.
- Rescue and treatment of casualties.
- Minimize danger to Obsidian Energy employees and the public.
- Minimizing damage to the environment and property.
- Initially containing and ultimately bringing the incident under control.
- Providing authoritative information to news media.
- Securing the safe rehabilitation of affected areas.
- Preserving relevant records and equipment for any subsequent inquiry into the emergency

PRIORITIES

Save Lives:

- Treat the injured and warn personnel and the public to avoid further casualties.
- Evacuate or shelter people from the effects of the emergency.
- Save animals.

Implement Protective Actions:

- Save the environment and property from destruction.
- Prevent further contamination to the environment or property.
- Provide security for property, especially in evacuated areas.

Restore Essentials:

- Utility, field and corporate operations infrastructure.
- Help restore economic basis of the community if impacted by release from a field facility.

Priority Sequence:

- To ensure a competent response to an emergency, any required actions will be conducted under the following priorities:

- 1 PERSONNEL SAFETY
- 2 PUBLIC SAFETY
- 3 PROPERTY OR ENVIRONMENT

- This priority sequence follows the principal that in order for personnel to effectively respond, their safety must first be assured

PUBLIC DESCRIPTIONS

Site Locations:

C-31-6040-12330

Well centre: 60° 30' 0.5" 123° 36' 41.5"

K-32-6010-12315

Well centre: 60° 1' 38.7" 123° 21' 55.8"

SURFACE DEVELOPMENTS

- There are NO RESIDENCES within the emergency planning zone (EPZ) / in the immediate area
- There are NO SCHOOL CHILDREN within the emergency planning zone (EPZ) / in the immediate area
- There are NO PUBLIC FACILITIES within the emergency planning zone (EPZ) / in the immediate area
- There are NO BUSINESSES / INDUSTRIAL FACILITIES within the emergency planning zone (EPZ) / in the immediate area; however there are wellsites in the surrounding area.

ACCESS

- Both sites are accessible via helicopter from Fort Liard. Equipment access for C-31 is by barge and road in the summer or ice road in the winter. Equipment access to K-32 is winter access from north or south of the well.
- Paramount operates and maintains the road from the barge landing for approximately 29.5 km to the K-29 wellsite. Canadian Natural Resources operates the road from K-29 for 2.5km to the C-31 wellsite and beyond. Obsidian maintains agreements with Paramount and CNRL for road use.

SPECIAL INTEREST GROUPS

- There are NO KNOWN SPECIAL INTEREST GROUPS within the EPZ.

FIRST NATIONS SETTLEMENTS

- There are NO FIRST NATIONS SETTLEMENTS within the EPZ. The Fort Liard Hamlet is 30 km SSE of the well site.

OTHER AREA OPERATORS

- There are NO OTHER AREA OPERATORS within the EPZ.

PUBLIC PROTECTION

RESIDENT RECEPTION CENTRE

- While Obsidian does not foresee any situation, which would require evacuation of local residents / transients, in the event of any emergency Obsidian would coordinate with a local facility to accommodate residents.

Two potential resident reception centers include:

- Woodlands Inn: Fort Nelson (250) 774 6669 o
- Super 8 Motel: Fort Nelson (250) 233-5025

AIR MONITORING

- In the event of an event requiring mobile air monitoring, air monitoring will be established in the Emergency Planning Zone (EPZ), the area within twice the EPZ, and the area beyond based on winds at the time of the incident. The nearest air monitoring would come from Fort St. John.

COMMUNICATION EQUIPMENT REQUIRED

- Cell phone coverage is unreliable in the area. Primary communication is done via 2-way radios and satellite phone.

RADIO COMMUNICATIONS FOR OBSIDIAN

- Area producer CNRL uses LADD 1 radio channel.

EXTERNAL EMERGENCY RESPONSE PLANS / MUTUAL AID

NORTHWEST TERRITORIES EMERGENCY PLAN

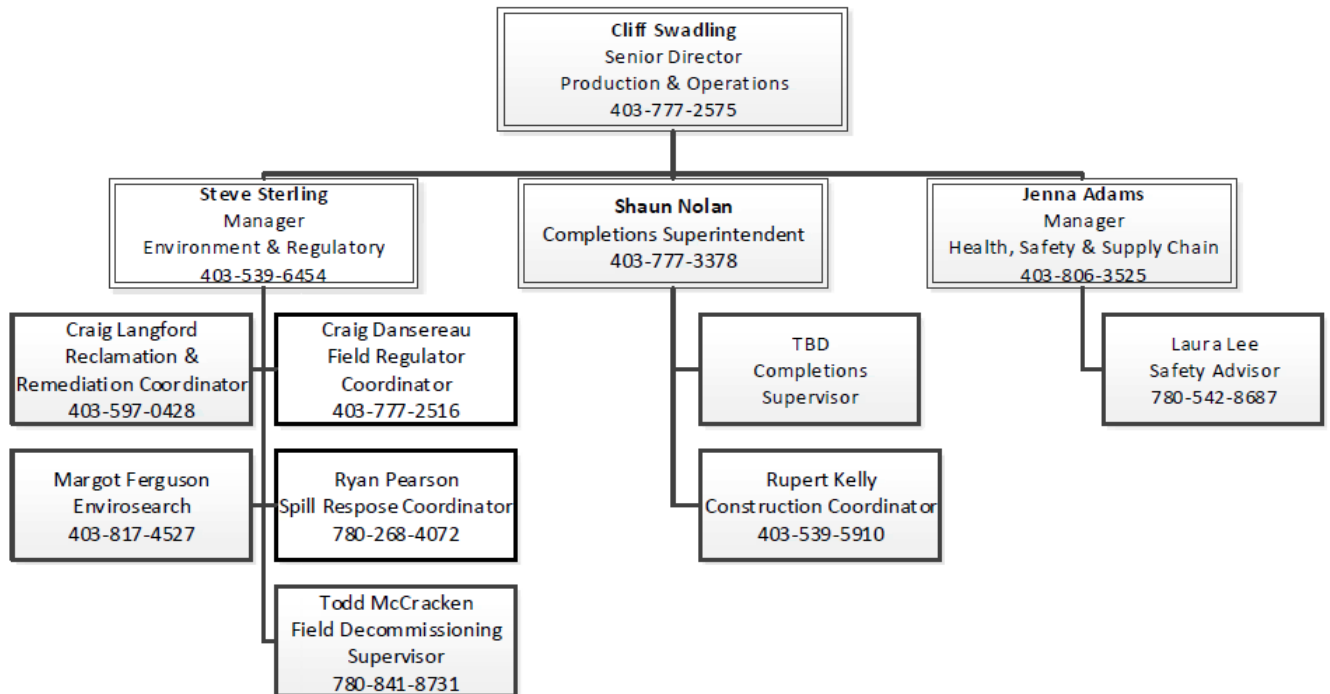
- The Northwest Territories (NWT) Emergency Plan sets out the policy and guidance whereby Government of Northwest Territories (GNWT) agencies and their partners support local emergency operations and meet a collective responsibility to provide a prompt and coordinated response management for territorial emergencies.
- A copy of the *NWT Emergency Plan* can be viewed on the GNWT Department of Municipal and Community Affairs (MACA) Public Safety sector website.

HAMLET OF FORT LIARD

- The Hamlet of Fort Liard has an Emergency Response Plan in place which can be found on the Hamlet's Emergency Services website. The purpose of the plan is to describe a plan of action for the activation and coordination of those agencies present in the municipality during an emergency to ensure that the following are achieved:
 1. The earliest possible response to the incident and the establishment of the Control of Operations, which may include the setting up of an Emergency Operations Center and On-Site Command Post.
 2. The early establishment of crowd / site control to allow the safe, unhindered entrance and exit of responding agencies to the incident site.

3. Immediate action to secure the incident site and eliminate all sources of potential danger to residents and responders.
4. The suggested evacuation of those areas considered to be at risk by the Committee.
5. The rescuing of all persons trapped by the incident and the provision of First Aid to those injured during or by the incident and response.
6. The opening of Emergency Reception Centres for those persons displaced by the emergency and the provision of social services, as required.
7. The factual, approved information be made available at the earliest possible time to:
 - a. Community residents
 - b. The Regional Coordinator
 - c. The news media
8. The earliest possible restoration of normal services in the incident area and the community in general.

INTERNAL CONTACTS



EMERGENCY SERVICE NUMBERS

SERVICE	LOCATION	
RCMP	Fort Liard	867-770-1111
	Fort Nelson	250-774-2777
Hospitals / Health Centres	Fort Liard Health Center	867-770-4301
	Fort Nelson General Hospital	250-774-8100
Fire Department	Fort Liard	867-770-2222

MUNICIPAL / COMMUNITY GOVERNMENT CONTACTS (For Notification Purposes Only)

Hamlet of Fort Liard		Main Office	867-770-4104
Acho Dene Ko First Nation	Fort Liard	Band Office	867-770-4571
Sambaa K'e First Nation	Sambaa K'e	Band Office	867-206-2800
Dehcho First Nation	Fort Simpson	Band Office	867-695-2355

PROVINCIAL GOVERNMENT CONTACTS

NAME	LOCATION	TELEPHONE	
The Office of the Regulator of Oil and Gas Operations (OROGO)	Incident Response Line	24-Hour	1-867-445-8551
Department of Environment and Natural Resources (ENR)	24-Hour Spill Report Line	Call Collect	867-920-8130
	Report A Wildland Fire	Toll-Free	1-877-698-3473
	Report a Poacher	Toll-Free	1-866-762-2437
	Report Bison in the Control Zone	Toll-Free	1-866-629-6438
	Wildlife Emergencies	Fort Simpson	867-695-7433
Department of Environment and Natural Resources	Dehcho Regional Office Fort Simpson	Office	867-695-7450
	Fort Liard Office	Office	867-770-4300
Department of Municipal and Community Affairs (MACA) - Emergency Measures Organization (EMO)	Emergency Call Line	24-Hour	867-920-2303
NWT Transportation	Dehcho Regional Office Fort Simpson	Office	867-695-7651
Dehcho Region Health and Social Services Authority	Fort Liard	24 Hour Health Services	867-770-4301
Mackenzie Valley Environmental Impact Review Board (MVEIRB) - Manager, Environmental Impact Assessment	Yellowknife	Main	867-766-7056

Workers' Safety & Compensation Commission: Incident & Injury Reporting	Yellowknife	Toll-Free	1-800-661-0792
---	-------------	-----------	----------------

FEDERAL GOVERNMENT CONTACTS

NAME	LOCATION	CONTACT INFORMATION
Canadian Coast Guard		24-Hour 1-800-889-8852
Canadian Rangers - 1st Canadian Ranger Patrol Group	Yellowknife	Toll Free 1-833-673-5068
Department of Fisheries and Oceans Canada (DFO)	Yellowknife, NT	Business Hrs 867-669-4900
Environment Canada <i>(will be notified through the respective provincial or territorial government)</i>	Government of NWT: Dept. of Environment & Natural Resources	24-Hour 867-920-8130
Emergency Response Assistance Canada (ERAC) Canadian Natural ERAP Number: ERP 2-0010-140	Call Centre (Propane and butane emergencies only)	24-Hour 1-800-265-0212
Government of NWT (GNWT) - Petroleum Resources Division - Dept of Industry, Tourism and Investment (ITI)_	Inuvik	Main 867-777-7480
NAV Canada <i>(requests for NOTAMs made by provincial or territorial oil and gas regulator)</i>	OROGO	24-Hour 1-867-445-8551
Transport Canada - Civil Aviation Contingency Operations		24-Hour 1-877-992-6853
Transport Canada (CANUTEC) – TDG Emergencies	Call Centre	24-Hour 613-996-6666

CONTRACT SERVICES

COMPANY TELEPHONE NUMBER	LOCATION	TELEPHONE NUMBER
AIR QUALITY MONITORING		
Firemaster Oilfield Services Inc.	Fort St. John	24-Hour 403-342-7500
HSE Integrated Ltd.	Fort St. John	24-Hour 1-888-346-8260
Trojan Safety Services	Fort St. John	24-Hour 1-888-785-9558
AIRCRAFT / HELICOPTERS		
Bailey Helicopters Ltd.	Fort Nelson	24-Hour 1-877-822-2245
Great Slave Helicopters & Group of Companies	Fort Liard	24-Hour 867-873-2081
Canadian Helicopters	Fort Nelson	24-Hour 1-780-429-6900
Highland Helicopters Ltd.	Fort Nelson	24-Hour 250-774-6106

Qwest Helicopters	Fort Nelson	24-Hour	250-774-5302
SAFETY SERVICES / COMMUNICATION EQUIPMENT			
Firemaster Oilfield Services Inc.	Fort St. John	24-Hour	403-342-7500
HSE Integrated Ltd.	Fort St. John	24-Hour	1-888-346-8260
Safety Boss Services	Fort St. John	24-Hour	1-800-882-4967
Trojan Safety Services	Fort St. John	24-Hour	1-888-785-9558
United Safety Ltd.	Fort Nelson Fort St. John	24-Hour	250-774-4591 250-774-4592
SPILL RESPONSE EQUIPMENT			
Clean Harbors	North America	24-Hour	1-800-645-8265
EnviroHazmat	BC, AB, SK	24-Hour	403-236-4901
Rapid Response Industrial Group	Canada-wide	24-Hour	1-844-774-4911
SWAT Consulting	Canada-wide	24-Hour	1-866-610-7928
Tervita	Canada-wide	24-Hour	1-800-327-7455
WELL BLOWOUT CONTROL			
Firemaster Oilfield Services	Fort St. John	24-Hour	403-342-7500
HSE Integrated Ltd.	Fort St. John	24-Hour	1-888-346-8260
Safety Boss Inc.	Fort St. John	24-Hour	1-800-882-4967
NWT 24-HOUR SPILL REPORT LINE 8130			1-867-920-

EMERGENCY LEVELS

STEP 1 ESTIMATE CONSEQUENCES OR IMPACT RATING		
RATING	DESCRIPTOR	EXAMPLE OF DETAIL DESCRIPTION
1	Minor	No injuries, limited and localized environmental impact, nil press interest. First aid treatment, on-site release contained, short- term, temporary environmental impact, low press interest.
2	Moderate	Medical treatment required, on-site release contained with outside assistance, medium environmental impact, local and possibly regional media interest publicity.
3	Major	Public safety jeopardized, off-site release with significant and ongoing environmental impact, adverse national publicity.
4	Catastrophic	Fatality, toxic pollution, and off-site contamination with long term environmental impact, national and international publicity.

STEP 2 ESTIMATE LIKELIHOOD RATING		
RATING	DESCRIPTOR	DESCRIPTION
1	Unlikely	Incident contained/controlled / No chance of additional hazards / Ongoing monitoring required
2	Moderate	Imminent control of the hazard probable
3	Likely	Uncontrolled incident / Operator has capability to manage and control incident
4	Certain / Occurring	Uncontrolled incident / Improbable hazard will be controlled in near future / Third party assistance required

STEP 3 RISK RATING ESTIMATION BASED ON LIKELIHOOD AND CONSEQUENCES					
CONSEQUENCE RATING	Minor (1)	Alert	Alert	Level 1	Level 1
	Moderate (2)	Alert	Level 1	Level 1	Level 2
	Major (3)	Level 1	Level 1	Level 2	Level 3
	Catastrophic (4)	Level 1	Level 2	Level 3	Level 3
		Unlikely (1)	Moderate (2)	Likely (3)	Almost Certain (4)
LIKELIHOOD RATING					

STEP 4 EMERGENCY LEVEL DETERMINATION	
LEVEL	CONTROL CONSIDERATIONS
Alert	No ERP action required
Level 1	There is no danger outside company property or right-of -way. The situation can be handled entirely by company personnel. Immediate control of the hazard/source is possible No threat to public Minimal environmental impact Little or no media interest
Level 2	Potential for the emergency to extend beyond company property. Imminent control of the situation is probable; some threat to public; moderate environmental impact; local regional media interest.
Level 3	Uncontrolled hazard Public safety jeopardized Significant ongoing environment impact Significant media interest Immediate municipal and provincial government involvement Assistance from outside parties required

Figure 1– Obsidian C-31 Location

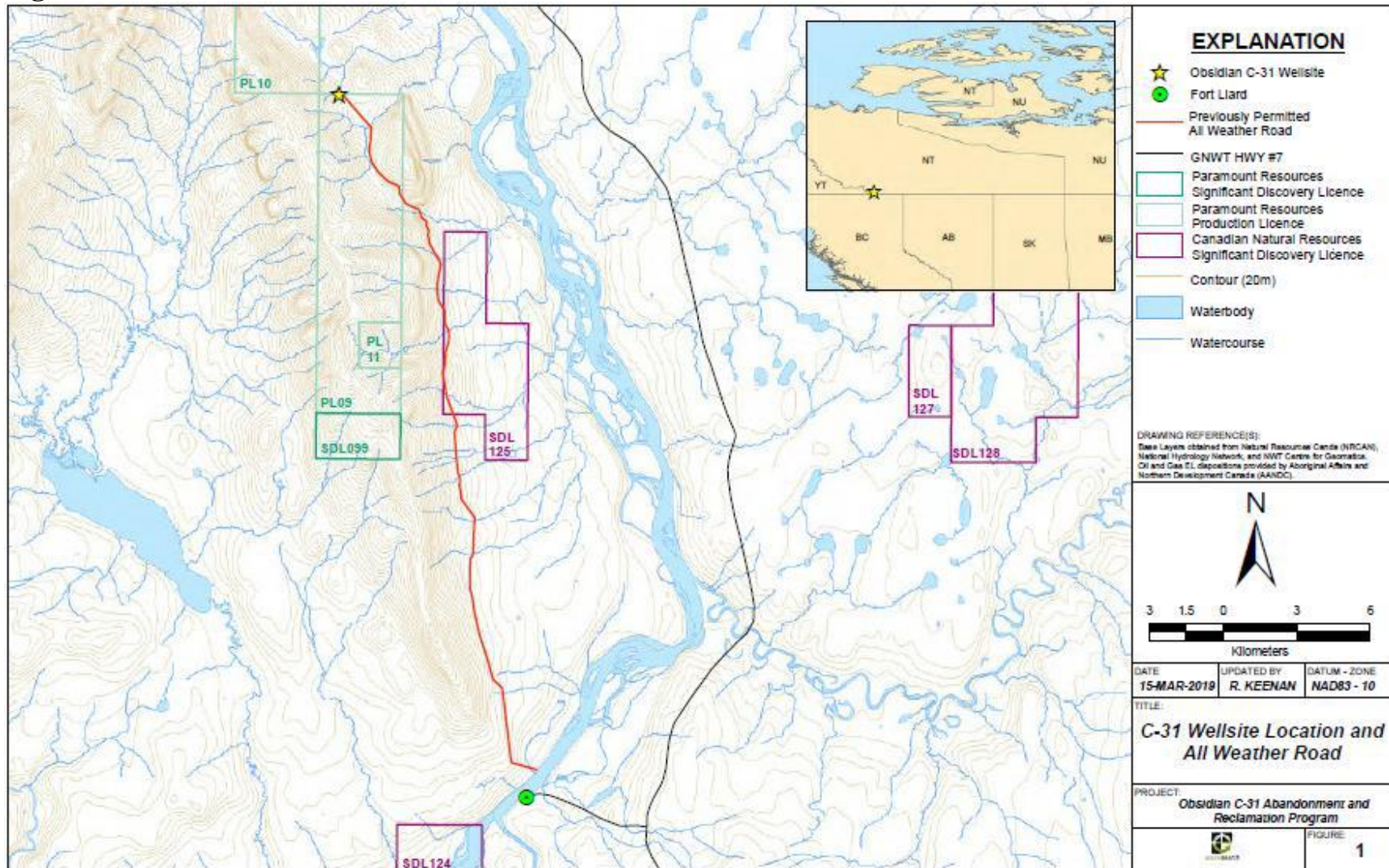


Figure 2 - Obsidian K-32 Location

