SEISLAND GENERAL HAZARD ASSESSMENT

PROJECT NAME: SAHTU 2D 2006 **CLIENT: EXPLOR DATA** **DATE: JANUARY 2006**

THE HAZARDS IDENTIFIED BELOW ARE GENERAL IN NATURE FOR THIS WORK/PLACE - HAZARDS WILL VARY AS PROGRAM CONDITIONS CHANGE THE "CONTINUOUS HAZARD ASSESSMENT" TABLE WILL PROVIDE SPECIFIC AND ONGOING PROGRAM HAZARD ASSESMENT AND MITIGATION

VEHICULAR HAZARDS:

- ___ 1) NARROW OR NO ROAD SHOULDER
- ___ 2) GOUGES
- X 3) NARROW BRIDGES
- ___ 4) ICY DECKS
- ___ 5) UNCONTROLLED RAILWAY CROSSINGS
- X 6) SIDE HILLS
- ___ 7) BLIND APPROACH TO RAILWAY CROSSING
- X 8) ICY BRIDGE DECK
- X 9) ROAD STRETCH SUBJECT TO DRIFTING
- ___ 10) SCHOOL BUS STOP
- ___ 11) ROUGH CROSSINGS AT TEXAS GATE
- X 12) CATTLE GUARDS
- ___ 13) CONSTRUCTION SITE
- X 14) BLIND HILL
- ___ 15) SEVERE WEATHER EFFECTS (ie. FOG WIND etc.)
- ___ 16) BADGER HOLES
- ___ 17) FENCES (BOTH BARBED OR ELECTRIC)
- ___ 18) DRAINAGE/IRRIGATION DITCHES
- X 19) TRAFFIC - LOCAL FARMERS/SEISMIC CREW
- ___ 20) OVERHANGS
- ___ 21) LIVESTOCK (FENCED OR WILD)

VEHICULAR/PORTABLE HAZARDS IN FIELD:

- ___ 22) COULEES
- ___ 23) BADGER HOLES
- ___ 24) STEEP HILLS/CLIFFS
- ___ 25) SOFT/MUSKEG AREAS
- ___ 26) DRAINAGE/IRRIGATION DITCHES
- ___ 27) THIN ICE
- ___ 28) SLIPPERY WALKING CONDITIONS
- ___ 29) SNAGS

OTHER HAZARDS:

- ___ 30) FIRE HAZARD (GRASS OR FOREST FIRES)
- ___ 31) HDS HAZARD
- X 32) DANGEROUS ANIMALS - BULLS, BEARS, ETC.
- ___ 33) BURIED CABLES
- ___ 34) BURIED PIPELINES
- ___ 35) BURIED POWERLINES
- ___ 36) TV/RADIO TRANSMITTER TOWER
- X 37) BEE/WASP NEST
- ___ 38) OVERHEAD OBSTRUCTION (STUMPHOLES etc.)
- ___ 39) OVERHEAD POWERLINES

CONTINUOUS HAZARD ASSESSMENT AND CONTROL

THIS REPORT GOES WITH A MAIN EVALUATION PREPARED BY THE FRONT END SURVEY COORDINATOR
RISK IS CATEGORIZED BY HAZARDS LISTED IN THE GENERAL HAZARD TABLE
HAZARD TABLE RATING: SELECT AND RECORD ONE RATING PER COLUMN
INPUT EITHER "YES" OR "NO" FOR THE FOLLOWING

FREQUENCY OF EXPOSURE:
5) Once or more times each day.
4) Two to three times each week.
3) Less than once a week.

HAZARD PROBABILITY:
5) Serious injury or death.
4) Three time - medical aid.
3) Injury likely - first aid.
2) Could very likely occur.
1) Some chance of occurring.
0) Not likely to happen.

RISK ID #	HAZARD DESCRIPTION/LOCATION	FREQUENCY OF EXPOSURE	HAZARD PROBABILITY	CONTROL FROM RISK	RISK TOTAL	CONTROL OR MITIGATION IMPLEMENTED	PERSON TO IMPLEMENT CONTROL	DATE
•	Narrow Bridges on Winter Roads	1	2	1	4	Discussed at Saftey Meeting	Field Supervisor	Jan/06
•	Icy Decks on Bridges	1	2	1	4	Discussed at Saftey Meeting	Field Supervisor	Jan/06
•	Winter Road Subject to Drifting	1	2	1	4	Discussed at Saftey Meeting	Field Supervisor	Jan/06
•	Blind Curves on Winter Road	1	2	1	4	Discussed at Saftey Meeting	Field Supervisor	Jan/06
•	Arctic Weather Conditions	3	3	2	8	Discussed at Saftey Meeting Dress for Conditions	Field Supervisor	Jan/06
•	Local Traffic on Winter Road	1	2	1	4	Discussed at Saftey Meeting	Field Supervisor	Jan/06
•	Moose and Wolves in Area	1	1	1	3	Discussed at Saftey Meeting	Field Supervisor	Jan/06
•	Large Rocks, Stumps, Holes on Line	3	2	3	8	Discussed at Saftey Meeting Flagged in Field	Field Supervisor	Jan/06
•	Sidehills Present Along Line	3	2	3	8	Discussed at Saftey Meeting	Field Supervisor	Jan/06

125° 124° 123° 65°

096F12 096F10 096F09 096G12 F-62 K-76 H-34 M-04 KA-06 (40.76 km) M-07 KA-04 (25.65 km) KA-02 (25.37 km) 096F05 096F06 096F07 096F08 096G05 N-70 DLN-02 (25.19 km) TD-1 Deline B-62 C-21 D-61 096F04 096F03 096F02 096F01 096G03 096G02 Tulita District Deline District GB-02 (20.85 km) 65° N-30 Tulita K-14 A-53 096C13 096C14 096C16 096B13 096B14 096B15 E-30 N-61 I-77

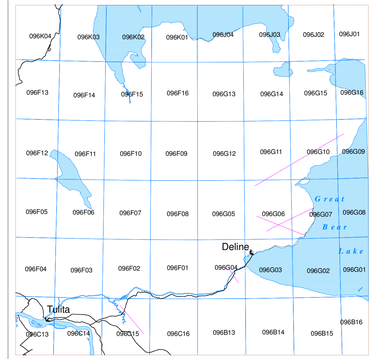
FIELD EMERGENCY RESPONSE PROCEDURE

Client Representative:	Lowell MacDonald
Project Manager/ Bird Dog:	Duane Meyer SAT PHONE: (403) 987 3601
Staging Location (Lat-Long):	Changes Daily
Medic:	Donald Macdonald
Crew Channel (Tx/Rx):	CH1 152.12
Catpush:	Tom Vincent
Cat/Gyro Foreman:	
Slashing Foreman:	
Permit Agent:	
Mapping:	Paul Smith
Survey Field Office:	
Survey Coordinator:	Paul Smith
Drilling Field Office:	
Drill Push:	
Geo Co.:	
Geo. Co. Operations Supervisor:	
Geo Field Office:	Advance Office - (403) 451 0536
Party Manager:	
Medivac Helicopter:	STARS AIR AMBULANCE #4567
Forestry/Public Lands Officer:	Bharat Dixit - (403) 617 3887
Other:	

EMERGENCY NUMBERS

R.C.M.P.:	Deline - (867)589 1111	Ambulance:	Deline - (867)589 1111
Fire Dept:	Deline - (867)589 2222	Hospital:	Deline - (867)589 1111

Seisland Safety Consultant: Michele Hinkl - (403) 863-1748
Seisland Surveys Ltd. Office: Calgary, Alberta - (403) 255 - 2770
CAGC 24 Hr. Emergency Response Number: (403) 265-0045



THIS MAP WAS ASSEMBLED FROM MULTIPLE DIGITAL DATA SOURCES. TOPOGRAPHICAL, OILGAS, AND FORESTRY INFORMATION WAS OBTAINED FROM MULTIPLE DATA SUPPLIERS. FIELD CULTURE WAS DIGITIZED FROM ORTHOPHOTOS AND VERIFIED BY FIELD PERSONNEL. ALL INFORMATION AFFECTING EXCLUSION ZONES WAS COLLECTED TO METER ACCURACY WITH DGPS. EXCEPT WHERE DATA HAS BEEN CONFIRMED IN FIELD, ACCURACY IS LIMITED TO THE ORIGINAL DATA SOURCES.

THE LEGEND IS STANDARDIZED FOR ALL MAP TYPES, NOT ALL LEGEND FEATURES NECESSARILY APPEAR ON EACH MAP.

LEGEND

SEISMIC POINT SYMBOLS
SOURCE PREPLOT
RECEIVER PREPLOT
SOURCE SURVEYED
RECEIVER SURVEYED
OTHER SURVEY
SURVEY CONTROL

WHITE AREA SEISMIC LINES
SOURCE-CROSS COUNTRY
SOURCE-RO ALLOWANCE
RCVR-CROSS COUNTRY (5.00m)
RCVR- RO ALLOWANCE
2D LINE-CROSS COUNTRY:
2D LINE- RO ALLOWANCE

GREEN AREA SEISMIC LINES
SOURCE NEWCUT CAT (7.50m)
SOURCE NEWCUT GYRO
SOURCE NEWCUT GYRO
SOURCE NEWHANDCUT-LIS
SOURCE NEWHANDCUT-HELI
SOURCE EXIST. CAT
SOURCE EXIST. GYRO
SOURCE EXIST. GYRO
SOURCE EXIST. HANDCUT-LIS
SOURCE EXIST. HANDCUT-HELI
RCVR NEWCUT CAT (7.50m)
RCVR NEWCUT GYRO
RCVR NEWCUT GYRO
RCVR NEWCUT HANDCUT-LIS (1.20m)
RCVR NEWCUT HANDCUT-HELI
RCVR EXIST. CAT
RCVR EXIST. GYRO
RCVR EXIST. GYRO
RCVR EXIST HANDCUT-LIS
RCVR EXIST HANDCUT-HELI

GREEN AREA ACCESS
HIGHLIGHTED ACCESS (PGP)
HIGHLIGHTED ACCESS (LOC)
HIGHLIGHTED ACCESS (NEW)
HIGHLIGHTED ACCESS (EXISTING)

SPECIAL GREEN AREA LINES
DISTRICT BNDRY

GENERAL CULTURE
PRIMARY HIGHWAY
SECONDARY HIGHWAY
PSP/ISP FORESTRY PLOT
EXISTING / NEW HELIPAD
MAGSITE
STAGING
MEDIC LOCATION
GATE/APPROACH ACCESS
COMMUNICATION TOWER
BUILDING/CONCRETE STRUCTURE
ARCHEOLOGICAL SITE
ABANDONDED WATERWELL
DEVELOPED SPRING
IRRIGATION PIVOT CENTER
OIL WELL / GAS WELL
SUSPENDED WELL
ABANDONDED WELL
SERVICE WELL
NEW LOCATION
DRY AND ABANDONDED
BATTERY / GASPLANT
MARSH/ MUSKEG
GRAVEL ROAD/LOC ACCESS
PAVED ROAD
DEVELOPED TRAIL/DRIVEWAY
TRAIL/CUTLINE
FENCELINE
BROKEN FENCELINE
OVERHEAD POWERLINE
HIGH PRESSURE PIPELINE
HIGH PRESSURE PIPE-EQUIP.FLAT
LOW PRESSURE PIPELINE
BURIED WATER LINE
FIBREOPTIC CABLE
BURIED POWER/TELEPHONE
IRRIGATION CANAL
IRRIGATION DITCH
IRRIGATION PIVOT/WHEEL MOVE
RIVER/ CREEK
UNNAMED DRAINAGE
DUGOUT
CONTOUR

CREEK CROSSING SYMBOLS
UNKNOWN
NO CROSSING
NON-MECHANICAL
CABLED LOG-FILL
LOG CROSSING
FJORD
ICE-FILL
SNOW-FILL
PORTABLE BRIDGE

HATCHES AND FILLS
BUSH COVER
LAKE/ STANDING WATER
SHUTOUT/ NO ENTRY
SPECIAL PERMIT CONDITION
SPECIAL LAND CONDITION
CRITICAL WILDLIFE ZONE
LEASED CROWN LAND
VACANT CROWN LAND
SOURCE EXCLUSION ZONE
SOURCE EXCLUSION ZONE (PIPELINE)
PRIMACORD EXCLUSION ZONE

EXPLOR DATA LTD.

Shotpoint Map

SAHTU-2006 2D

Date: March 24, 2006 **Seisland Job#: 05-0163**

Line Type: C **Clearing Type: N(1.2m, 7.5m), E(7.5m)**

Licencee: Explor Data
Licence #: 1101
Permitee: Yamoria Geophysical
Permit #: TBA
Equipment: Wheels / Tracked
Energy Source: Vibroseis
Projection: UTM Zone 10 NAD 83
Scale: 1:175,000
Contour Interval: 20 m

NTS 1:50k Map Sheet: 96-B-(13-16), 96-C-(13-16), 96-F-(01-16), 96-G-(01-16), 96-J-(01-04), 96-K-(01-04)

Gov't Approval #: 9228-E034-1P

PARAMETERS

Total Number of Shots: 6,449
Total Number of Receivers: 6,889
Source Point Interval: 20 m
Receiver Point Interval: 20 m
Source Line Interval: N/A
Receiver Line Interval: N/A
Total Length of Source Lines: 128.97 km
Total Length of Receiver Lines: 137.83 km
Total Line Kilometers: 137.83 km
Program Area: N/A