



STRATHCONA
RESOURCES LTD

**STRATHCONA RESOURCES LTD
GREATER BODO AREAS
EMERGENCY RESPONSE PLAN**

**24 HOUR EMERGENCY LINE:
1.888.488.7190**

MARCH 2023

STRATHCONA RESOURCES LTD. 24 HOUR EMERGENCY LINE: 1.888.488.7190

Strathcona Resources Head Office	[REDACTED]	[REDACTED]
Cactus Lake Field Office	[REDACTED]	[REDACTED]

INTERNAL CONTACT NUMBERS

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

CORPORATE CONTACTS

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

FACILITY DESCRIPTION

The Greater Bodo Areas consists of sweet and sour oil and gas pipelines located within the M.D. of Provost in Alberta and the R.M. of Eye Hills No. 382 and R.M. of Heart's Hill No. 352 in Saskatchewan.

East Bodo: Sour gas from the East Bodo gathering system is chemically treated to sweet spec and flowlined to the Cactus Lake 16-19-036-28 W3M Battery for distribution to Cosine/South Bodo. There is a buy back from TransGas Ltd. for further pressure maintenance. There are 75 producing oil wells pipelined into the East Bodo 09-14-037-01 W4M battery. At the battery, the produced water is separated from the oil and is pipelined out to 57 polymerized injection wells to be injected back into formation. The sales oil from 09-14-037-01 W4M is trucked to market.

South Bodo: The South Bodo 14-32-036-01 W4M is a sweet facility and has 17 producing oil wells flow lined into it as well as about six (6) surrounding Single Well Batteries (SWB) that have fluid trucked into the facility to be treated. These SWB are the Main Bodo and SE Bodo wells. The oil is treated to pipeline spec and shipped down the Plains Midstream pipeline. The produced water is pipelined to five (5) injection wells and injected into formation. The gas from the surrounding wells is captured and used for fuel. With a casing gas compressor located at 14-32, there is also one (1) Source Water Well (SRC) that flows to 14-32 facility.

Main Bodo: There are ten (10) surrounding Single Well Batteries (SWB) that have fluid trucked into the Cosine (7-18) or Cactus Lake (16-19) facilities. As well, the oil is also trucked from location directly to market. The gas from the surrounding wells is captured and compressed with a gas compressor located at 01-19-037-01 W4M and shipped to East Bodo 09-14 Facility for dehydration and use as fuel. One injection facility exists at the 10-18 site with 2 associated injection wells fed from there to 100/10-18 and 1A0/07-19..

FACILITY DESCRIPTION (continued)

Cactus Lake North: The Cactus Lake 16-19-036-28 W3M is a sweet oil treating facility that has one (1) producing oil well. Produced water from 07-18 is flowlined into water plant water is flowlined to five (5) injection wells and injected into formation.

Cosine: The Cosine 07-18-037-28 W3M oil battery is a sour oil treating facility that has 42 producing wells flowlined to it. There are also 40 polymer injection wells. The sales oil from 07-18-037-28 W3M is trucked to market. Produced water gets pipelined to the 16-19 battery. There are four (4) source wells that flow into the battery for polymer injection. There is a gas compressor that supply's fuel gas to the battery and field.

CER Pipeline: The CER Regulated pipeline connects the sweet dehydrated natural gas from the above ground flange located downstream of the compressor and dehydration unit at 16-23-036-01 W4M in Alberta to the above ground flange located downstream of the dehydration unit at 12-17-036-28 W3M in Saskatchewan. The natural gas transported is sweet and dry, with all gas transported in this line being metered downstream of the 16-23-036-01 W4M dehydration unit, upstream of the Pipeline entry flange.

EPZ INFORMATION

AB Assets: The expected H₂S concentration for wells is 0.10% with a maximum EPZ of 10 m. The expected H₂S concentration for pipelines is 0.10% with a maximum EPZ of 80 m.

SK Assets: The expected H₂S concentration for wells and pipelines is 0% with a maximum EPZ of 0 m.

CER Pipelines: The expected H₂S concentration for pipelines is 0% with a maximum EPZ of 0 m.

CLOSEST URBAN CENTRE

The nearest urban centres are Provost AB, located approximately 33.6 km North West of the field and Macklin SK, approximately 23.8 km north, of the Greater Bodo Area.

HYDROLOGY

There are numerous bodies of water in both the Alberta and Saskatchewan sides of the Bodo, AB / Cactus Lake North, SK field, including Cactus Lake, Cosine Lake and Eyehill Creek.

HIGHWAYS

Highway 771 (which run east-west) and Highways 317, 680 and 889 (which runs north-south). Note: If closing a highway, the RCMP and the local Alberta Transportation District must be notified.

SITE ACCESS

Refer to access map on the following pages.

ON-SITE STORAGE

- East Bodo Oil Battery & Water Plant 09-14-037-01 W4M
- 1 Sour Bitumen Emulsion Tank 1000 bbl
 - 1 Sales Bitumen Emulsion Tank 1000 bbl
 - 1 Desand Oil Tank 1000 bbl
 - 1 Slop Oil Tank 1000 bbl
 - 1 Coalescent Agent Tank 1000 bbl
 - 1 Coalescent Tank 2000 bbl
 - 3 Sales Tanks 2000 bbl
 - 1 Dirty Water Tank 1850 bbl
 - 1 Water Tank 1850 bbl
 - 1 Water Tank 2000 bbl
 - 1 Fresh Water Tank 400 bbl
 - 1 Surfactant Tank 400 bbl

- SE Bodo Compressor 16-23-036-01 W4M *Not in Service*
- 1 Produced Water Tank 100 bbl

FACILITY DESCRIPTION (continued)

ON-SITE STORAGE (continued)

- South Bodo Oil Battery & Water Plant 14-32-036-01 W4M
- 1 Coalescent Tank 2000 bbl
 - 1 Sales Oil Tank 2500 bbl
 - 1 Desand Oil Tank 500 bbl
 - 1 Slop Oil Tank 1000 bbl
 - 1 Dirty Oil Tank 1000 bbl
 - 1 Water Tank 2000 bbl
- 2 Water Tanks 1500 bbl

- Cactus Lake Battery & Water Plant 16-19-036-28 W3M
- 1 Sales Bitumen Emulsion Tank 2000 bbl
 - 3 Slop Oil Tanks 1000 bbl
 - 1 Desand Oil Tank 1000 bbl
 - 1 Dirty Oil Tank 2000 bbl
 - 1 Water Tank 2000 bbl
 - 1 Divert Tank 2500 bbl
 - 1 Coalescent Agent Tank 1000 bbl
 - 1 Clean Water Tank 2000 bbl
 - 1 Skim Tank 2000 bbl

- Cosine Battery & Compressor 07-18-037-28 W3M
- 3 Sales Bitumen Emulsion Tanks 1000 bbl
 - 1 Sales Bitumen Emulsion Tank 2000 bbl
 - 1 Sales Bitumen Emulsion Tank 3200 bbl
 - 1 Inlet Emulsion Tank 2000 bbl
 - 1 Coalescent Agent Tank 2000 bbl
 - 1 Coalescent Tank 3200 bbl
 - 1 Skim Tank 750 bbl
 - 1 Water Tank 1000 bbl
 - 1 Surge Water Tank 1000 bbl
 - 1 Injection Water Tank 100 bbl
 - 1 Fresh Water Tank 1000 bbl
 - 1 Desand Tank 1000 bbl
 - 1 De-gas Tank 2000 bbl

OTHER AREA OPERATORS & TIE-INS

OIL & GAS

Cenovus	877.458.8080	Harvest Ops	800.760.2826
CNRL	888.878.3700	Ridgeback Res	866.413.7800

TIE-INS*

* There are tie-ins between Strathcona Resources and the above indicated companies. Strathcona's ERP does not cover emergencies for other operators.

RAIL

Canadian National Railway (CN)	800.465.9239
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OTHER AREA USERS

None	
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SERVICE CONTRACTORS

MOBILE AIR MONITORING		
Bravo Target Safety	Central Dispatch	866.513.3779
HSE Integrated	Province Wide	888.346.8260
OILFIELD FIRE FIGHTING / SAFETY CONTRACTORS / WELL CONTROL SPECIALISTS / IGNITION		
Capstone Oilfield Services	Central Dispatch	866.347.3911
Firemaster Oilfield Services	Central Dispatch	403.342.7500
HSE Integrated	Central Dispatch	888.346.8260
Steel View Energy	Macklin	888.858.2213
CRISIS COMMUNICATIONS		
Edelman Canada		403.817.0620
SAFETY SERVICES		
HSE Integrated	Province Wide	888.346.8260
Trojan Safety Services	Central Dispatch	250.785.9557
SPILL RESPONSE		
Ridgeline Canada	Emergency	866.574.7928
Matrix Solutions Inc.	Emergency	877.774.5525
TRUCKING COMPANIES		
Crude Master Transport	Lloydminster	780.875.4733
Heavy Crude Hauling	Lloydminster	877.875.5358
UTILITIES		
AB - ATCO Gas	Province Wide	800.511.3447
AB - Enmax	Province Wide	310.2010
AB - Telus	Province Wide	310.2255
SK - SaskPower	Province Wide	310.2220
SK - SaskEnergy	Province Wide	800.700.0427
SK - SaskTel	Province Wide	800.727.5835
EMERGENCY RESPONSE MANAGEMENT		
BEHR Integrated Solutions	Calgary	403.444.6940
TRANSPORTATION		
Odyssey Coach Lines	Saskatoon	888.261.0781
Prairie Bus Lines	Province Wide	866.342.6390
Red Arrow Motor Coach	Central Dispatch	800.232.1958
HELICOPTER COMPANIES		
Canadian Helicopters Ltd.	Province Wide	780.429.6900
Delta Helicopters Ltd.	Province Wide	800.665.3564

SERVICE CONTRACTORS (continued)		
WCSS *See website for more info (www.wcss.ab.ca)		
24 Hour Emergency Contact		866.541.8888
Coop 1	Bry-Tan Trucking Ltd	780.875.9250
	Equipment is located at 5502 – 63 Avenue, Lloydminster, AB	
	Cenovus	780.573.7110
	Equipment is located at the Cenovus parking lot, junction of Hwys 41 & 55 (4006 Hwy 55), La Corey, AB	
OIL SPILL CONTINGENCY GROUP *See website for more info (saskoilspill.com)		
Area II Environmental Response Unit	24 Hour Emergency Contact	306.460.5102
	Trailer located at SECURE Energy TRD Facility – 16-16-030-23 W3M, 11 km North of Kindersley on Highway 21	
GRAZING LEASES		
GRAZING ID	NAME	EMERGENCY
None		
TRAPPERS		
TRAPPER ID	NAME	EMERGENCY
None		
GUIDES & OUTFITTERS		
COMPANY	NAME	EMERGENCY
WMU 200 – Sounding		
925879 Alberta Ltd.	Johnathan J. McMahon	780.818.6201
925906 Alberta Ltd.	Johnathan J. McMahon	780.818.6201
Black Jack Outfitters	Kelly S. Blomberg	620.755.4984
Blue Buck Guiding & Outfitting	Brian Gilbertson	780.856.2475
Grand Downs Outfitters	Philip MacDonald	403.793.3152
P.N.D. Frederick Holdings Ltd.	Pat Frederick	780.469.0579
Reynolds, Rob	Robert E. Reynolds	780.210.0411
Tall Timbers Outfitting	David G. Sharp	306.307.3555
West Winds Waterfowling Ltd.	Terry Byrne	403.569.9082
Wild West Hunting Adventures	Kevin R. West	780.753.6289
SURFACE DEVELOPMENT INFORMATION		
In the event of an incident, ensure all members of the public are notified and provided with response information. If required use rovers and road blocks to clear and isolate the areas in close proximity to the incident.		

SAFETY EQUIPMENT	
OPERATOR / TRUCK SAFETY EQUIPMENT	
All operators carry their own equipment as required by their safety and emergency response plans. This equipment may include, but is not limited to the following: <ul style="list-style-type: none"> Communications equipment (cellular telephone or radio) Fire extinguishers First aid kits Hand held H₂S detector Roadblock equipment (barricade, orange vest, hard hat, reflective coveralls, gloves, personal H₂S monitor and flashlight) Strathcona Resources requires that all operators test equipment annually and that all personnel are trained on the safe and proper use of equipment.	
NOTIFICATION	
Operators attend to the facility, wells and gathering system 7 days a week. Facilities are equipped with alarms that result in operators being notified on a 24/7 basis and result in on-call operators responding to the field or site. Current alarms include high pressure, high temperature, vibration alarms, high/low glycol levels, LEL and fire.	
All automated compressor sites have automatic flare igniters and LEL and gas detection. A SCADA or ZEDI system monitors compressors and satellites throughout the area to alert the operator in the Control Room to possible malfunctions. The Control Room operator in turn notifies the operator in the field who will respond to the call.	
COMMUNICATIONS	
The primary method of communication is cellular phone.	
ROADBLOCK KITS / IGNITION KITS	
Roadblock kits and ignition equipment is located at East Bodo and North Cactus locations.	
PUBLIC SAFETY MEASURES	
PROTECTION MEASURES	
Initial notification will be made to the public within the 30 m EPZ. Public protection measures will be assessed at the time of the incident. Because there are NO known residents within the calculated sour gas line (CLKOE8SE86), shelter-in-place and evacuation is not required to protect the public from sour gas. However, should an incident occur at any well, pipeline or facility Strathcona Resources, personnel may for other reasons request the public to evacuate.	
Public protection measures will be assessed for all Strathcona Resources incidents and a public protection measure, if required, will be implemented for all Level 2 incidents.	
ROADBLOCKS / ROVERS	
Roadblocks will be positioned at every road leading into or away from the hazard area. Strathcona Resources operations personnel will initially restrict entry into the hazard area. If roadblocks are established, a safety company will be asked to provide the equipment. Rovers will assist anyone who is being evacuated.	
AREA ISOLATION	
Secure the initial 30 m EPZ (hazard area) by requesting that all persons leave the area.	
Contact information for residents and business owners falling within 30 meters of any pipeline and 75 meters of any well or facility is listed on the Bodo, AB / Cactus Lake North, SK maps. This confidential information shown on the maps is to be used by Strathcona Resources personnel only. A resident list is contained in the following pages.	

AGENCY CONTACTS - ALBERTA		
IMMEDIATE CONTACT REQUIRED AT ANY LEVEL OF EMERGENCY:		
Energy / Environmental Emergency & Operational Complaint Line		800.222.6514
AER Bonnyville Field Centre		780.826.5352
Transportation Safety Board	CER Pipeline Emergency	819.997.7887
CER		403.299.2773
IMMEDIATE CONTACT REQUIRED IF ANY RESIDENTS ARE CONTACTED AT LEVEL 1 OR HIGHER:		
RCMP Provost RCMP	Emergency Office	911 780.753.2215
MD of Provost	24 Hour Office	780.753.2434 780.753.2434
Alberta Health Services	Province Wide	844.755.1788
PROVINCIAL GOVERNMENT CONTACTS - ALBERTA		
Alberta Agriculture and Forestry	Wildfire Reporting	310.FIRE(3473)
Alberta Boilers Safety Association (ABSA)		780.437.9100
Alberta EDGE (Environmental and Dangerous Goods Emergencies)	24 Hour Dangerous Goods Reporting	800.272.9600
Alberta Emergency Management Agency (AEMA)	POC - Provincial Operations Centre	866.618.2362
Alberta Safety Services	Electrical Branch	866.421.6929
Alberta Transportation	Hanna District	403.854.5550
CANUTEC	Dangerous Goods Emergencies	613.996.6666 888.226.8832 (From cell) *666
Emergency Response Assistance Canada (ERAC)	ERP2-1933-022 Liquids ERP2-0010-199 LPG	800.265.0212
Environment & Climate Change Canada (ECCC)	Weather One on One	900.565.5555
HealthLink Alberta	24/7 Health Advice	811
NAV Canada	Flight Information Center	866.541.4102
Occupational Health and Safety	Incident Reporting	866.415.8690
Poison and Drug Information Service (PADIS)	Alberta	800.332.1414
Utility Safety Partners – Formerly Alberta One Call	Call Before You Dig!	800.242.3447
Workers' Compensation Board (WCB)	Within Alberta	866.922.9221
EMERGENCY SERVICES - ALBERTA		
AMBULANCES		
AB Ambulance Service		911
Air Ambulance (STARS)	09-14-037-01 W4M East Bodo #7506	888.888.4567
HOSPITALS		
Provost Health Centre	Provost	780.753.2291
Consort Hospital & Care Centre	Consort	403.577.3555
FIRE DEPARTMENTS		
Provost Fire Department		911
RCMP		
RCMP Provost RCMP	Emergency Office	911 780.753.2215
RECEPTION CENTRES - ALBERTA		
Canalta Hotel	Provost	780.753.2255
Best Western	Wainwright	780.845.9934

AGENCY CONTACTS - SASKATCHEWAN		
IMMEDIATE CONTACT REQUIRED AT ANY LEVEL OF EMERGENCY:		
Oil and Gas Incident Management and Reporting	ER Service Desk Emergency Support Line	855.219.9373 844.764.3637
Saskatchewan Environment Spill Report Centre	Spill Reporting Line	800.667.7525
Ministry of Energy and Resources - Formerly ECON	Kindersley, SK	800.667.7525
IMMEDIATE CONTACT REQUIRED IF ANY RESIDENTS ARE CONTACTED AT LEVEL 1 OR HIGHER:		
RCMP	Emergency Kindersley (Kerrobert)	911 306.834.6550
RM of Eye Hill #382	24 Hour Office	306.228.7373 306.753.2075
RM of Heart's Hill #352	24 Hour Office	306.834.7218 306.372.4224
Saskatchewan Health Authority	24 Hour Office	306.570.7477 306.491.8733 306.655.0080
Sask Agri-Food		306.787.5322
PROVINCIAL GOVERNMENT CONTACTS - SASKATCHEWAN		
Saskatchewan Public Safety Agency (SPSA)	Province Wide 24 Hr	800.667.9660
Sask 1 st Call	Before You Dig	866.828.4888
Sask Highways and Infrastructure		306.787.1577 306.787.3111
CANUTEC	Dangerous Goods Emergencies	613.996.6666 888.226.8832 (From cell) *666
Emergency Response Assistance Canada (ERAC)	ERP2-1933-022 Liquids ERP2-0010-199 LPG	800.265.0212
Environment & Climate Change Canada (ECCC)	Weather One on One	900.565.5555
HealthLine Saskatchewan	24/7 Health Advice	811
NAV Canada	Flight Information Center	866.541.4102
Fisheries and Oceans Canada	Regina	855.852.8320
Occupational Health and Safety	Incident Reporting	800.567.7233
Saskatchewan Poison Centre	Province Wide	866.454.1212
Technical Safety Authority of Saskatchewan (TSASK)	Province Wide	866.530.8599
Workers' Compensation Board (WCB)	Within Saskatchewan	800.667.7590
EMERGENCY SERVICES - SASKATCHEWAN		
AMBULANCES		
Sask911		911
Air Ambulance (STARS)	16-19-036-28 W3M Cactus Lake #4826	888.888.4567
HOSPITALS		
Maidstone Hospital	Maidstone	306.893.2622
FIRE DEPARTMENTS		
Fire Department (Macklin, Luseland, Major, Kerrobert)		911
RCMP		
RCMP	Emergency Kindersley (Kerrobert)	911 306.834.6550
RECEPTION CENTRES - SASKATCHEWAN		
Golden Prairie Lodge	Kerrobert	844.834.1212
Canalta	Kindersley	306.463.1570
Super 8 Motel	Kindersley	306.463.8218



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

CER - Greater Bodo Areas - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Operating																					
80106	1	16-23-036-01W4	CS	--	01-24-036-01W4	PL	--	NG	O	2250	114.30	3.20	0.00	0.00	1724	1724	0	n/appl.	0	0	0
80106	3	01-24-036-29W3	PL	--	12-17-036-28W3	B	--	NG	O	2300	114.30	3.20	0.00	0.00	1724	1724	0	n/appl.	0	0	0

Pipeline Legend:

Facility: B = Battery BE = Blind End CS = Compressor Station DH = Dehydrator GP = Gas Plant GS = Gathering System MS = Meter Station PL = Pipeline S = Satellite WE = Well

Substance: CO = Crude Oil FG = Fuel Gas FW = Fresh Water NG = Natural Gas OE = Oil Well Effluent OM = Oil Emulsion SC = Sour Crude SE = Sour Effluent SG = Sour Gas SW = Salt Water

Status: A = Abandoned D = Discontinued I = Inactive O = Operating Q = Active R = Removed S = Suspended TBC = To Be Constructed

Valve: CV = Check Valve ESD = Emergency Shut Down Valve

Other: L = Length OD = Outside Diameter WT = Wall Thickness MOP = Maximum Operating Pressure GLR = Gas to Liquid Ratio

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
091G017	191/05-16-036-28W3/0	05-15-036-28W3	52.091457	-109.929032	PENGROWTH CACTUS LK N HZ 1C5-15-3D5-16-36-28	0.00	0	SUS	OIL	0	0	0
092B018	193/05-16-036-28W3/0	05-15-036-28W3	52.091412	-109.929032	PENGROWTH CACTUS LK N HZ 5C5-15-3A5-16-36-28	0.00	0	SUS	OIL	0	0	0
000E171	192/11-16-036-28W3/0	12-15-036-28W3	52.094787	-109.929326	PENGROWTH CACTUS LK N HZ 9C12-15-4B11-16-36-28	0.00	0	SUS	OIL	0	0	0
091H040	191/12-16-036-28W3/0	12-15-036-28W3	52.096135	-109.929031	PENGROWTH CACTUS LK N HZ 8C12-15-2D12-16-36-28	0.00	0	SUS	OIL	0	0	0
091E056	192/12-16-036-28W3/0	12-15-036-28W3	52.094786	-109.929032	PENGROWTH CACTUS LK N HZ 1C12-15-2A12-16-36-28	0.00	0	SUS	OIL	0	0	0
091E057	193/12-16-036-28W3/0	12-15-036-28W3	52.094831	-109.929032	PENGROWTH CACTUS LK N HZ 5C12-15-3D12-16-36-28	0.00	0	SUS	OIL	0	0	0
091H039	111/13-16-036-28W3/2	12-15-036-28W3	52.096179	-109.929031	PENGROWTH CACTUS LK N 2HZ 4C12-15-4A13-16-36-28	0.00	0	PROD	OIL	0	0	0
091H039	192/13-16-036-28W3/0	12-15-036-28W3	52.096179	-109.929031	PENGROWTH CACTUS LK N 2HZ 4C12-15-4A13-16-36-28	0.00	0	SUS	OIL	0	0	0
000G311	192/14-16-036-28W3/0	12-15-036-28W3	52.096279	-109.929024	PENGROWTH CACTUS LK N HZ 12C12-15-1B14-16-36-28	0.00	0	SUS	OIL	0	0	0
093H094	191/06-16-036-28W3/0	05-16-036-28W3	52.091926	-109.953834	PENGROWTH CACTUS LK N HZ 3C5-16-4D6-16-36-28	0.00	0	SUS	OIL	0	0	0
081B069	101/10-16-036-28W3/2	10-16-036-28W3	52.094661	-109.940028	PENGROWTH CACTUS LK 10-16-36-28	0.00	0	SUS	WTR	0	0	0
092G005	122/11-16-036-28W3/0	11-16-036-28W3	52.092963	-109.946919	PENGROWTH CACTUS LK N WSW B11-16-36-28	0.00	0	SUS	WTR	0	0	0
093B061	131/11-16-036-28W3/0	11-16-036-28W3	52.096255	-109.94842	PENGROWTH CACTUS LK N WSW C11-16-36-28	0.00	0	SUS	WTR	0	0	0
000G371	195/12-16-036-28W3/0	13-16-036-28W3	52.099244	-109.954132	PENGROWTH CACTUS LK N HZ 11C13-16-1B12-16-36-28	0.00	0	SUS	OIL	0	0	0
094L031	131/13-16-036-28W3/0	13-16-036-28W3	52.09988	-109.953844	PENGROWTH CACTUS LAKE N WSW C13-16-36-28	0.00	0	SUS	WTR	0	0	0
094J010	191/15-16-036-28W3/0	13-16-036-28W3	52.099224	-109.953843	PENGROWTH CACTUS LK N HZ 3C13-16-2D15-16-36-28	0.00	0	SUS	OIL	0	0	0
095F164	192/16-16-036-28W3/0	13-16-036-28W3	52.098955	-109.953843	PENGROWTH CACTUS LK N HZ 2C13-16-1C16-16-36-28	0.00	0	SUS	OIL	0	0	0
000L193	191/14-17-036-28W3/0	13-16-036-28W3	52.099078	-109.954122	PENGROWTH CACTUS LK N HZ 15C13-16-3D14-17-36-28	0.00	0	SUS	OIL	0	0	0
000L194	194/03-20-036-28W3/0	13-16-036-28W3	52.09915	-109.954122	PENGROWTH CACTUS LK N VIU HZ 19C13-16-2A3-20-36-28	0.00	0	SUS	OIL	0	0	0
095L112	193/02-21-036-28W3/0	13-16-036-28W3	52.098595	-109.953861	PENGROWTH CACTUS LK N HZ 6C13-16-1A2-21-36-28	0.00	0	SUS	OIL	0	0	0
000H074	191/09-16-036-28W3/0	14-16-036-28W3	52.096797	-109.94783	PENGROWTH CACTUS LK N HZ 2B14-16-3D9-16-36-28	0.00	0	SUS	OIL	0	0	0
093B108	191/11-16-036-28W3/0	14-16-036-28W3	52.096571	-109.947983	PENGROWTH CACTUS LK N INJ DD 6B14-16-2C11-16-36-28	0.00	0	SUS	OIL	0	0	0
093B062	121/14-16-036-28W3/0	14-16-036-28W3	52.097109	-109.946743	PENGROWTH CACTUS LK N OBS B14-16-36-28	0.00	0	OBS	OIL	0	0	0
093B109	122/14-16-036-28W3/2	14-16-036-28W3	52.096796	-109.947983	PENGROWTH CCTS LK N INJ B14-16-36-28	0.00	0	D&C	N/A	0	0	0

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
095D060	141/04-17-036-28W3/0	04-17-036-28W3	52.088483	-109.974562	PENGROWTH CACTUS LK N SWD 4-17-36-28	0.00	0	SUS	WTR	0	0	0
096C021	192/08-17-036-28W3/0	05-17-036-28W3	52.089604	-109.97656	PENGROWTH CACTUS LK N HZ 1B5-17-3A8-17-36-28	0.00	0	SUS	OIL	0	0	0
093E252	191/06-18-036-28W3/0	05-17-036-28W3	52.089536	-109.977655	PENGROWTH CACTUS LK N HZ 2B5-17-3B6-18-36-28	0.00	0	SUS	OIL	0	0	0
093E254	192/06-18-036-28W3/0	05-17-036-28W3	52.089469	-109.977655	PENGROWTH CACTUS LK N HZ 6B5-17-2B6-18-36-28	0.00	0	SUS	OIL	0	0	0
093G079	192/09-17-036-28W3/0	12-17-036-28W3	52.093479	-109.976558	PENGROWTH CACTUS LK N HZ 5B12-17-2A9-17-36-28	0.00	0	SUS	OIL	0	0	0
093C091	191/05-18-036-28W3/0	12-17-036-28W3	52.09341	-109.977653	PENGROWTH CACTUS LK N HZ 6B12-17-4D5-18-36-28	0.00	0	SUS	OIL	0	0	0
093C090	191/12-18-036-28W3/0	12-17-036-28W3	52.093477	-109.977653	PENGROWTH CACTUS LK N HZ 2B12-17-1A12-18-36-28	0.00	0	SUS	OIL	0	0	0
093C089	192/12-18-036-28W3/0	12-17-036-28W3	52.093545	-109.977653	PENGROWTH CACTUS LK N HZ 3B12-17-1D12-18-36-28	0.00	0	SUS	OIL	0	0	0
099L240	193/12-18-036-28W3/0	12-17-036-28W3	52.093741	-109.976529	PENGROWTH CACTUS LK HZ 4B12-17-4A12-18-36-28	0.00	0	SUS	OIL	0	0	0
099L241	194/12-18-036-28W3/0	12-17-036-28W3	52.093633	-109.976538	PENGROWTH CACTUS LK HZ 8B12-17-5A12-18-36-28	0.00	0	SUS	OIL	0	0	0
000C023	193/04-17-036-28W3/0	13-17-036-28W3	52.097249	-109.976564	PENGROWTH CACTUS LK N HZ 36B13-17-4B4-17-36-28	0.00	0	SUS	OIL	0	0	0
000C085	194/04-17-036-28W3/0	13-17-036-28W3	52.097251	-109.976389	PENGROWTH CACTUS LK N HZ 40B13-17-5D4-17-36-28	0.00	0	SUS	OIL	0	0	0
093F206	191/09-17-036-28W3/0	13-17-036-28W3	52.097456	-109.976556	PENGROWTH CACTUS LK N HZ 4B13-17-3D9-17-36-28	0.00	0	SUS	OIL	0	0	0
078I077	101/13-17-036-28W3/2	13-17-036-28W3	52.098054	-109.97559	PENGROWTH COSINE 13-17-36-28	0.00	0	SUS	OIL	0	0	0
093F207	191/16-17-036-28W3/0	13-17-036-28W3	52.097523	-109.976556	PENGROWTH CACTUS LK N HZ 8B13-17-3A16-17-36-28	0.00	0	SUS	OIL	0	0	0
093F210	192/16-17-036-28W3/0	13-17-036-28W3	52.097591	-109.976556	PENGROWTH CACTUS LK N HZ 12B13-17-2D16-17-36-28	0.00	0	SUS	OIL	0	0	0
000B013	193/16-17-036-28W3/0	13-17-036-28W3	52.09777	-109.976218	PENGROWTH CACTUS LK N HZ 28B13-17-6D16-17-36-28	0.00	0	SUS	OIL	0	0	0
000B029	194/16-17-036-28W3/0	13-17-036-28W3	52.097251	-109.976213	PENGROWTH CACTUS LK N HZ 32B13-17-2A16-17-36-28	0.00	0	SUS	OIL	0	0	0
093C077	191/11-18-036-28W3/0	13-17-036-28W3	52.097454	-109.977651	ELAN ET AL CACTUS LK N HZ 11B13-17-3C11-18-36-28	0.00	0	SUS	OIL	0	0	0
099E039	192/11-18-036-28W3/0	13-17-036-28W3	52.097453	-109.976191	PENGROWTH CACTUS LK N HZ 24B13-17-7C11-18-36-28	0.00	0	SUS	OIL	0	0	0
093C075	191/13-18-036-28W3/0	13-17-036-28W3	52.097589	-109.977651	PENGROWTH CACTUS LK N HZ 3B13-17-1D13-18-36-28	0.00	0	SUS	OIL	0	0	0
093C076	192/13-18-036-28W3/0	13-17-036-28W3	52.097521	-109.977651	PENGROWTH CACTUS LK N HZ 7B13-17-4A13-18-36-28	0.00	0	SUS	OIL	0	0	0
099E037	191/14-18-036-28W3/0	13-17-036-28W3	52.097591	-109.976191	PENGROWTH CACTUS LK N HZ 16B13-17-1C14-18-36-28	0.00	0	SUS	OIL	0	0	0
099E038	192/14-18-036-28W3/0	13-17-036-28W3	52.09752	-109.976191	PENGROWTH CACTUS LK N HZ 20B13-17-1B14-18-36-28	0.00	0	SUS	OIL	0	0	0

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
074F003	101/07-18-036-28W3/2	07-18-036-28W3	52.090832	-109.987628	PENGROWTH COSINE 7-18-36-28	0.00	0	SUS	OIL	0	0	0
001A154	195/04-17-036-28W3/0	09-18-036-28W3	52.096165	-109.979411	PENGROWTH CACTUS LK N HZ 8D9-18-2C4-17-36-28	0.00	0	SUS	OIL	0	0	0
001A155	191/01-18-036-28W3/0	09-18-036-28W3	52.096111	-109.979411	PENGROWTH CACTUS LK N HZ 12D9-18-1D1-18-36-28	0.00	0	SUS	OIL	0	0	0
093B036	131/13-18-036-28W3/0	13-18-036-28W3	52.099512	-110.001786	PENGROWTH CACTUS LK N SWD C13-18-36-28	0.00	0	SUS	WTR	0	0	0
094L092	122/14-18-036-28W3/2	14-18-036-28W3	52.096927	-109.99539	PENGROWTH CACTUS LAKE N WSW B14-18-36-28	0.00	0	SUS	WTR	0	0	0
080A041	111/16-18-036-28W3/3	16-18-036-28W3	52.096692	-109.97955	PENGROWTH COSINE 16-18-36-28	0.00	0	SUS	GAS	0	0	0
001A124	193/12-17-036-28W3/0	01-19-036-28W3	52.101476	-109.980746	PENGROWTH CACTUS LK N HZ 7A1-19-3B12-17-36-28	0.00	0	SUS	OIL	0	0	0
001A102	191/09-18-036-28W3/0	01-19-036-28W3	52.101476	-109.980863	PENGROWTH CACTUS LK N HZ 3A1-19-4A9-18-36-28	0.00	0	SUS	OIL	0	0	0
099E041	192/05-18-036-28W3/0	04-19-036-28W3	52.101739	-109.998578	PENGROWTH CACTUS LK N HZ 6D4-19-1C5-18-36-28	0.00	0	SUS	OIL	0	0	0
099E040	193/05-18-036-28W3/0	04-19-036-28W3	52.101692	-109.998235	PENGROWTH CACTUS LK N HZ 3A4-19-1D5-18-36-28	0.00	0	SUS	OIL	0	0	0
093C017	194/05-18-036-28W3/0	04-19-036-28W3	52.100902	-110.000583	PENGROWTH CACTUS LK N HZ 8B4-19-2D5-18-36-28	0.00	0	SUS	OIL	0	0	0
093C018	195/05-18-036-28W3/0	04-19-036-28W3	52.100902	-110.000692	PENGROWTH CACTUS LK N HZ 12B4-19-3B5-18-36-28	0.00	0	SUS	OIL	0	0	0
092K118	191/01-19-036-28W3/0	04-19-036-28W3	52.100355	-109.997652	PENGROWTH CN CACTUS LAKE HZ 1A4-19-3A1-19-36-28	0.00	0	SUS	OIL	0	0	0
096C017	192/01-19-036-28W3/0	04-19-036-28W3	52.101739	-109.998454	PENGROWTH CACTUS LK N VIU HZ 2D4-19-1D1-19-36-28	0.00	0	SUS	OIL	0	0	0
093C016	191/09-13-036-29W3/0	04-19-036-28W3	52.100903	-110.000802	PENGROWTH ET AL CACTUS LK N HZ 4B4-19-1A9-13-36-29	0.00	0	SUS	OIL	0	0	0
094I084	111/08-19-036-28W3/0	08-19-036-28W3	52.104354	-109.979904	PENGROWTH CN CACTUS LK N V1U A8-19-36-28	0.00	0	SUS	WTR	0	0	0
096C065	191/03-20-036-28W3/0	09-19-036-28W3	52.109319	-109.980551	PENGROWTH CACTUS LK N V1U HZ 2D9-19-3A3-20-36-28	0.00	0	PMP	OIL	0	0	0
096C066	192/03-20-036-28W3/0	09-19-036-28W3	52.109184	-109.980552	PENGROWTH CACTUS LK N V1U HZ 6D9-19-4B3-20-36-28	0.00	0	SUS	OIL	0	0	0
078E059	121/10-19-036-28W3/0	10-19-036-28W3	52.108188	-109.988794	PENGROWTH ET AL COSINE 10-19-36-28	0.00	0	SUS	OIL	0	0	0
096C063	194/04-19-036-28W3/0	12-19-036-28W3	52.108833	-109.997368	PENGROWTH CACTUS LK N V1U HZ 4A12-19-4A4-19-36-28	0.00	0	SUS	OIL	0	0	0
097F262	191/14-20-036-28W3/0	15-19-036-28W3	52.113809	-109.986678	PENGROWTH CACTUS LK N V1U HZ 4D15-19-4C14-20-36-28	0.00	0	SUS	OIL	0	0	0
097E347	192/14-20-036-28W3/0	15-19-036-28W3	52.11362	-109.986677	PENGROWTH CACTUS LK N V1U HZ 3D15-19-1C14-20-36-28	0.00	0	SUS	OIL	0	0	0
097E346	193/14-20-036-28W3/0	15-19-036-28W3	52.113432	-109.986677	PENGROWTH CACTUS LK N V1U HZ 2D15-19-3A14-20-36-28	0.00	0	SUS	OIL	0	0	0
096L166	196/06-19-036-28W3/0	16-19-036-28W3	52.113059	-109.979485	PENGROWTH CACTUS LK N V1U HZ 21D16-19-7C6-19-36-28	0.00	0	SUS	OIL	0	0	0

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
095B015	191/11-19-036-28W3/0	16-19-036-28W3	52.112876	-109.979491	PENGROWTH CN CCTS L N VIU HZ 5D16-19-2B11-19-36-28	0.00	0	SUS	OIL	0	0	0
096L167	192/11-19-036-28W3/0	16-19-036-28W3	52.113239	-109.979484	PENGROWTH CACTS LK N V1U HZ 25D16-19-6B11-19-36-28	0.00	0	SUS	OIL	0	0	0
095C037	191/12-19-036-28W3/0	16-19-036-28W3	52.113591	-109.98408	PENGROWTH CN CCTS L N VIU HZ 3C16-19-4A12-19-36-28	0.00	0	SUS	OIL	0	0	0
095C061	193/12-19-036-28W3/0	16-19-036-28W3	52.113982	-109.984441	PENGROWTH CN CCT L N V1U HZ 11C16-19-4D12-19-36-28	0.00	0	SUS	OIL	0	0	0
096L094	141/16-19-036-28W3/0	16-19-036-28W3	52.113453	-109.97996	PENGROWTH CACTUS LK N U WSW 4D16-19-36-28	0.00	0	SRC	WTR	0	0	0
096L095	142/16-19-036-28W3/0	16-19-036-28W3	52.113363	-109.97996	PENGROWTH CACTUS LK N U WSW 9D16-19-36-28	0.00	0	SRC	WTR	0	0	0
096L096	143/16-19-036-28W3/0	16-19-036-28W3	52.113093	-109.97996	PENGROWTH CACTUS LK N U OBS 13D16-19-36-28	0.00	0	SRC	WTR	0	0	0
096L097	144/16-19-036-28W3/0	16-19-036-28W3	52.113003	-109.979961	PENGROWTH CACTUS LK N U OBS 17D16-19-36-28	0.00	0	OBS	OIL	0	0	0
091I043	192/05-16-036-28W3/0	01-20-036-28W3	52.101962	-109.95662	PENGROWTH CACTUS LK N HZ 6D1-20-1B5-16-36-28	0.00	0	SUS	OIL	0	0	0
000I038	194/05-16-036-28W3/0	01-20-036-28W3	52.101872	-109.956494	PENGROWTH CACTUS LK N HZ 22D1-20-2B5-16-36-28	0.00	0	SUS	OIL	0	0	0
000I018	191/01-17-036-28W3/0	01-20-036-28W3	52.101871	-109.956618	PENGROWTH CACTUS LK N HZ 18D1-20-4D1-17-36-28	0.00	0	SUS	OIL	0	0	0
092A008	192/01-21-036-28W3/0	01-20-036-28W3	52.102052	-109.95662	PENGROWTH CACTUS LK N HZ 10D1-20-1C1-21-36-28	0.00	0	SUS	OIL	0	0	0
092A018	193/01-21-036-28W3/0	01-20-036-28W3	52.102007	-109.95662	PENGROWTH CACTUS LK N HZ 14D1-20-4B1-21-36-28	0.00	0	SUS	OIL	0	0	0
096A033	192/02-21-036-28W3/0	01-20-036-28W3	52.102971	-109.957715	PENGROWTH CACTUS LK N HZ 7D1-20-3C2-21-36-28	0.00	0	SUS	OIL	0	0	0
096A032	191/03-21-036-28W3/0	01-20-036-28W3	52.102702	-109.957715	PENGROWTH CACTUS LK N HZ 3D1-20-4A3-21-36-28	0.00	0	SUS	OIL	0	0	0
093F049	191/04-17-036-28W3/0	04-20-036-28W3	52.100404	-109.974054	PENGROWTH CACTUS LK N HZ 1A4-20-2D4-17-36-28	0.00	0	SUS	OIL	0	0	0
093F050	192/04-17-036-28W3/0	04-20-036-28W3	52.100404	-109.973945	PENGROWTH CACTUS LK N HZ 5A4-20-1D4-17-36-28	0.00	0	SUS	OIL	0	0	0
000B012	191/11-17-036-28W3/0	04-20-036-28W3	52.100405	-109.973729	PENGROWTH CACTUS LK N HZ 9A4-20-3B11-17-36-28	0.00	0	SUS	OIL	0	0	0
000C164	191/12-17-036-28W3/0	04-20-036-28W3	52.100229	-109.974063	PENGROWTH CACTUS LK N HZ 13A4-20-4B12-17-36-28	0.00	0	SUS	OIL	0	0	0
000C165	192/12-17-036-28W3/0	04-20-036-28W3	52.100228	-109.973919	PENGROWTH CACTUS LK N HZ 17A4-20-4A12-17-36-28	0.00	0	SUS	OIL	0	0	0
000D069	191/15-18-036-28W3/0	04-20-036-28W3	52.100224	-109.974292	PENGROWTH CACTUS LK N HZ 2A4-20-3C15-18-36-28	0.00	0	SUS	OIL	0	0	0
000D081	191/02-19-036-28W3/0	04-20-036-28W3	52.100224	-109.974365	PENGROWTH CACTUS LK N V1U HZ 6A4-20-2B2-19-36-28	0.00	0	SUS	OIL	0	0	0
094L032	111/04-20-036-28W3/0	04-20-036-28W3	52.101509	-109.973998	PENGROWTH CACTUS LAKE N OBS A4-20-36-28	0.00	0	OBS	OIL	0	0	0
079K143	132/07-20-036-28W3/0	07-20-036-28W3	52.106072	-109.965297	PENGROWTH CACTUS LK N 7A-20-36-28	0.00	0	SUS	OIL	0	0	0

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
096D034	111/08-20-036-28W3/0	08-20-036-28W3	52.103722	-109.957645	PENGROWTH CACTUS LAKE N WSW A8-20-36-28	0.00	0	SUS	WTR	0	0	0
092A009	131/07-21-036-28W3/2	08-20-036-28W3	52.105421	-109.95663	PENGROWTH CACTUS LK N 2HZ 2D8-20-1C7-21-36-28	0.00	0	D&C	N/A	0	0	0
092A009	191/07-21-036-28W3/0	08-20-036-28W3	52.105421	-109.95663	PENGROWTH CACTUS LK N 2HZ 2D8-20-1C7-21-36-28	0.00	0	SUS	OIL	0	0	0
092A012	192/07-21-036-28W3/0	08-20-036-28W3	52.105377	-109.956624	PENGROWTH CACTUS LK N HZ 6D8-20-4A7-21-36-28	0.00	0	SUS	OIL	0	0	0
096A034	193/07-21-036-28W3/0	08-20-036-28W3	52.105273	-109.957719	PENGROWTH CACTUS LK N HZ 3A8-20-2A7-21-36-28	0.00	0	SUS	OIL	0	0	0
096A035	194/07-21-036-28W3/0	08-20-036-28W3	52.105542	-109.957719	PENGROWTH CACTUS LK N HZ 14D8-20-3B7-21-36-28	0.00	0	SUS	OIL	0	0	0
0941110	191/08-21-036-28W3/0	08-20-036-28W3	52.105493	-109.957062	PENGROWTH CACTUS LK N HZ 10D8-20-3B8-21-36-28	0.00	0	SUS	OIL	0	0	0
096B160	194/01-20-036-28W3/0	09-20-036-28W3	52.110728	-109.957289	PENGROWTH CACTUS LK N VIU HZ 3D9-20-3D1-20-36-28	0.00	0	SUS	OIL	0	0	0
096B101	192/01-20-036-28W3/0	11-20-036-28W3	52.109958	-109.971661	PENGROWTH CACTUS LK N VIU HZ 3C11-20-3B1-20-36-28	0.00	0	SUS	OIL	0	0	0
096B121	193/01-20-036-28W3/0	11-20-036-28W3	52.11016	-109.971319	PENGROWTH CACTUS LK N V1U HZ 7C11-20-3C1-20-36-28	0.00	0	SUS	OIL	0	0	0
097C285	131/11-20-036-28W3/0	11-20-036-28W3	52.11006	-109.971491	PENGROWTH CACTUS LK N U OBS 11C11-20-36-28	0.00	0	OBS	NA	0	0	0
095B117	192/06-19-036-28W3/0	12-20-036-28W3	52.110694	-109.977847	PENGROWTH CN CCTS LK N VIU HZ 3C12-20-2C6-19-36-28	0.00	0	PMP	OIL	0	0	0
095C063	194/06-19-036-28W3/0	12-20-036-28W3	52.110424	-109.977847	PENGROWTH CN CCTS L N V1U HZ 11C12-20-1B6-19-36-28	0.00	0	SUS	OIL	0	0	0
096B157	191/02-20-036-28W3/0	12-20-036-28W3	52.109659	-109.974131	PENGROWTH CACTUS LK N V1U HZ 2D12-20-4A2-20-36-28	0.00	0	SUS	OIL	0	0	0
096B170	193/02-20-036-28W3/0	12-20-036-28W3	52.109568	-109.975518	PENGROWTH CACTUS LK N VIU HZ 10D12-20-4B2-20-36-28	0.00	0	SUS	OIL	0	0	0
097C284	141/12-20-036-28W3/0	12-20-036-28W3	52.109838	-109.975518	PENGROWTH CACTUS LK N U WSW 14D12-20-36-28	0.00	0	SUS	WTR	0	0	0
096L165	195/06-19-036-28W3/0	13-20-036-28W3	52.11304	-109.977988	PENGROWTH CACTUS LK N V1U HZ 2C13-20-3D6-19-36-28	0.00	0	SUS	OIL	0	0	0
096L165	195/06-19-036-28W3/2	13-20-036-28W3	52.11304	-109.977988	PENGROWTH CACTUS LK N V1U HZ 2C13-20-3D6-19-36-28	0.00	0	OBS	NA	0	0	0
097C293	191/08-20-036-28W3/0	13-20-036-28W3	52.113679	-109.972808	PENGROWTH CACTUS LK N V1U HZ 4D13-20-2B8-20-36-28	0.00	0	SUS	OIL	0	0	0
097C294	192/08-20-036-28W3/0	13-20-036-28W3	52.113859	-109.972807	PENGROWTH CACTUS LK N V1U HZ 8D13-20-2C8-20-36-28	0.00	0	SUS	OIL	0	0	0
097E130	191/04-30-036-28W3/0	13-20-036-28W3	52.112232	-109.977917	PENGROWTH CACTUS LK N V1U HZ 3B13-20-1D4-30-36-28	0.00	0	SUS	OIL	0	0	0
093C012	191/01-20-036-28W3/0	16-20-036-28W3	52.110811	-109.958019	PENGROWTH CACTUS LAKE HZ 1B16-20-4B1-20-36-28	0.00	0	SUS	OIL	0	0	0
094F195	194/12-16-036-28W3/0	01-21-036-28W3	52.100717	-109.934279	PENGROWTH CACTUS LK N HZ 1B1-21-1A12-16-36-28	0.00	0	SUS	OIL	0	0	0
008H345	196/12-16-036-28W3/0	01-21-036-28W3	52.102166	-109.935044	PENGROWTH CACTUS LAKE N HZ 1C1-21-4A12-16-36-28	0.00	0	SUS	OIL	0	0	0

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
092H062	191/03-22-036-28W3/0	01-21-036-28W3	52.100948	-109.934301	PENGROWTH CACTUS LK N HZ 4B1-21-4B3-22-36-28	0.00	0	SUS	OIL	0	0	0
092H062	191/03-22-036-28W3/2	01-21-036-28W3	52.100948	-109.934301	PENGROWTH CACTUS LK N HZ 4B1-21-4B3-22-36-28	0.00	0	SUS	GAS	0	0	0
096F039	131/02-21-036-28W3/0	02-21-036-28W3	52.102667	-109.940044	PENGROWTH CACTUS LK N OBS DD 4C2-21-3C2-21-36-28	0.00	0	OBS	NA	0	0	0
093J072	141/02-21-036-28W3/2	02-21-036-28W3	52.102667	-109.938541	PENGROWTH CACTUS LK N INJ D2-21-36-28	0.00	0	PMP	OIL	0	0	0
096F043	131/03-21-036-28W3/0	03-21-036-28W3	52.102795	-109.947791	PENGROWTH CACTUS LAKE N OBS C3-21-36-28	0.00	0	OBS	OIL	0	0	0
091H029	111/06-21-036-28W3/0	06-21-036-28W3	52.104813	-109.945639	PENGROWTH CACTUS LK N A6-21-36-28	0.00	0	OBS	OIL	0	0	0
003H137	101/10-21-036-28W3/0	10-21-036-28W3	52.108662	-109.939615	PENGROWTH CACTUS LAKE N A10-21-36-28	0.00	0	SUS	GAS	0	0	0
091G157	191/14-16-036-28W3/0	04-22-036-28W3	52.100534	-109.929031	PENGROWTH CACTUS LK N HZ 1B4-22-1D14-16-36-28	0.00	0	SUS	OIL	0	0	0
000C409	191/12-22-036-28W3/0	04-22-036-28W3	52.100325	-109.929151	PENGROWTH CACTUS LK N HZ 5B4-22-1B12-22-36-28	0.00	0	SUS	OIL	0	0	0
092K137	111/05-22-036-28W3/2	05-22-036-28W3	52.104845	-109.926112	PENGROWTH CACTUS LK N SWD A5-22-36-28	0.00	0	SUS	WTR	0	0	0
008D202	191/05-28-036-28W3/0	01-28-036-28W3	52.115451	-109.934872	PENGROWTH CACTUS LAKE N HZ 1B1-28-3A5-28-36-28	0.00	0	SUS	OIL	0	0	0
095B091	111/02-28-036-28W3/0	02-28-036-28W3	52.116169	-109.937427	PENGROWTH NCO CACTUS LAKE N A2-28-36-28	0.00	0	SUS	OIL	0	0	0
003I042	111/04-28-036-28W3/0	04-28-036-28W3	52.115713	-109.951523	PENGROWTH CACTUS LAKE N A4-28-36-28	0.00	0	STD	OIL	0	0	0
003I042	111/04-28-036-28W3/2	04-28-036-28W3	52.115713	-109.951523	PENGROWTH CACTUS LAKE N A4-28-36-28	0.00	0	D&C	OIL	0	0	0
097D037	193/08-20-036-28W3/0	03-29-036-28W3	52.117412	-109.969593	PENGROWTH CACTUS LK N V1U HZ 3D3-29-3C8-20-36-28	0.00	0	SUS	OIL	0	0	0
097D036	191/09-20-036-28W3/0	03-29-036-28W3	52.117412	-109.969301	PENGROWTH CACTUS LK N V1U HZ 7D3-29-3B9-20-36-28	0.00	0	SUS	OIL	0	0	0
000L018	111/07-29-036-28W3/0	07-29-036-28W3	52.119934	-109.96195	PENGROWTH CACTUS LAKE N 7-29-36-28	0.00	0	PMP	GAS	0	0	0
093C060	191/15-20-036-28W3/0	01-30-036-28W3	52.115925	-109.979593	PENGROWTH CACTUS LAKE HZ 4A1-30-4B15-20-36-28	0.00	0	SUS	OIL	0	0	0
093A065	191/05-30-036-28W3/0	01-30-036-28W3	52.114982	-109.981943	PENGROWTH CN CACTUS LAKE HZ 1B1-30-3B5-30-36-28	0.00	0	SUS	OIL	0	0	0
000D221	191/13-19-036-28W3/0	02-30-036-28W3	52.116128	-109.986663	PENGROWTH CACTUS LK N V1U HZ 7A2-30-1A13-19-36-28	0.00	0	SUS	OIL	0	0	0
000G364	192/13-19-036-28W3/0	02-30-036-28W3	52.116119	-109.987136	PENGROWTH CACTUS LK N V1U HZ 11A2-30-4A13-19-36-28	0.00	0	SUS	OIL	0	0	0
097F016	191/03-29-036-28W3/0	02-30-036-28W3	52.116128	-109.986955	PENGROWTH CACTUS LK N VU1 HZ 3A2-30-2A3-29-36-28	0.00	0	SUS	OIL	0	0	0
094A026	191/04-19-036-28W3/0	04-30-036-28W3	52.114801	-110.000701	PENGROWTH CN CACTUS LK N HZ 1B4-30-3B4-19-36-28	0.00	0	SUS	OIL	0	0	0
094A027	192/04-19-036-28W3/0	04-30-036-28W3	52.114801	-109.999971	PENGROWTH CN CACTUS LK N HZ 5B4-30-3A4-19-36-28	0.00	0	SUS	OIL	0	0	0

Cactus Lake North - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
097B019	121/07-30-036-28W3/0	07-30-036-28W3	52.1197	-109.988644	PENGROWTH CACTUS LK N 7-30-36-28	0.00	0	SUS	WTR	0	0	0
002C064	111/02-31-036-28W3/0	02-31-036-28W3	52.129955	-109.984972	PENGROWTH CACTUS LAKE NORTH A2-31-36-28	0.00	0	SUS	OIL	0	0	0
002C064	111/02-31-036-28W3/2	02-31-036-28W3	52.129955	-109.984972	PENGROWTH CACTUS LAKE NORTH A2-31-36-28	0.00	0	OBS	NA	0	0	0
000D088	193/14-18-036-28W3/0	16-13-036-29W3	52.098071	-110.004202	PENGROWTH CACTUS LK N HZ 10D16-13-3D14-18-36-28	0.00	0	SUS	OIL	0	0	0
000D087	191/03-19-036-28W3/0	16-13-036-29W3	52.098456	-110.004206	PENGROWTH CACTUS LK N V1U HZ 6D16-13-2A3-19-36-28	0.00	0	SUS	OIL	0	0	0
099E084	191/09-24-036-29W3/0	16-13-036-29W3	52.09826	-110.004213	PENGROWTH CACTUS LK N V1U HZ 2D16-13-1D9-24-36-29	0.00	0	SUS	OIL	0	0	0
Injection Wells												
095B123	131/01-16-036-28W3/0	01-16-036-28W3	52.088266	-109.936766	PENGROWTH CACTUS LAKE SWD C1-16-36-28	0.00	0	SUS	WTR	0	0	0
094C062	121/07-16-036-28W3/0	07-16-036-28W3	52.089678	-109.940851	PENGROWTH CACTUS LK N SWD B7-16-36-28	0.00	0	SUS	WTR	0	0	0
092C003	121/11-16-036-28W3/2	11-16-036-28W3	52.092963	-109.946919	PENGROWTH CACTUS LK N INJ DD 1B11-16-1B11-16-36-28	0.00	0	SUS	STM	0	0	0
093G078	191/08-17-036-28W3/0	12-17-036-28W3	52.093412	-109.976558	PENGROWTH CACTUS LK N HZ 1B12-17-4D8-17-36-28	0.00	0	SUS	WTR	0	0	0
094J183	121/14-18-036-28W3/0	14-18-036-28W3	52.096927	-109.99539	PENGROWTH CACTUS LK N INJ B14-18-36-28	0.00	0	SUS	STM	0	0	0
094J184	131/14-18-036-28W3/0	14-18-036-28W3	52.097017	-109.99539	PENGROWTH CACTUS LK N INJ DD 6B14-18-2C14-18-36-28	0.00	0	SUS	STM	0	0	0
095A141	191/06-19-036-28W3/0	16-19-036-28W3	52.112822	-109.979491	PENGROWTH CN CCTS LK N V1U HZ 1D16-19-3C6-19-36-28	0.00	0	SUS	STM	0	0	0
095C060	192/12-19-036-28W3/0	16-19-036-28W3	52.113786	-109.984261	PENGROWTH CN CCTS L N V1U HZ 7C16-19-1D12-19-36-28	0.00	0	INJ	WTR	0	0	0
0911053	191/10-21-036-28W3/0	09-20-036-28W3	52.107802	-109.956627	PENGROWTH CACTUS LK N HZ 2A9-20-2A10-21-36-28	0.00	0	SUS	WTR	0	0	0
096B169	192/02-20-036-28W3/0	12-20-036-28W3	52.109524	-109.974569	PENGROWTH CACTUS LK N VIU HZ 6D12-20-3A2-20-36-28	0.00	0	INJ	GAS	0	0	0
096C064	193/03-20-036-28W3/0	12-20-036-28W3	52.110155	-109.977848	PENGROWTH CACTUS LK N V1U HZ 15C12-20-4A3-20-36-28	0.00	0	INJ	GAS	0	0	0
095C052	193/06-19-036-28W3/0	12-20-036-28W3	52.110559	-109.977847	PENGROWTH CN CCTS LK N VIU HZ 7C12-20-2B6-19-36-28	0.00	0	INJ	WTR	0	0	0
097E247	192/05-30-036-28W3/0	01-30-036-28W3	52.115745	-109.979593	PENGROWTH CACTUS LK N V1U HZ 8A1-30-3A5-30-36-28	0.00	0	INJ	WTR	0	0	0
095A079	193/04-19-036-28W3/0	04-30-036-28W3	52.114801	-110.000336	PENGROWTH CN CACTS LK N V1U HZ 9B4-30-4B4-19-36-28	0.00	0	INJ	WTR	0	0	0



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

Cactus Lake North - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
121833	1	02-30-036-28W3	PL	--	04-30-036-28W3	WE	--	SW	O	1470	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	2	02-30-036-28W3	HD	--	16-19-036-28W3	B	--	OE	O	510	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	3	16-19-036-28W3	HD	--	13-20-036-28W3	B	--	OE	O	440	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	8	13-20-036-28W3	WE	--	11-20-036-28W3	HD	--	OE	O	530	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	12	02-30-036-28W3	PL	--	16-19-036-28W3	PL	--	OE	O	190	0.00	0.00	0.00	0.00	0	0	0	n/app.	0	0	0
121833	13	12-19-036-28W3	PL	--	16-19-036-28W3	B	--	OE	O	1520	168.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	14	15-19-036-28W3	WE	--	15-19-036-28W3	PL	--	OE	O	190	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	15	02-30-036-28W3	PL	--	02-30-036-28W3	WE	--	SW	O	100	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	17	12-17-036-28W3	HD	--	04-19-036-28W3	HD	--	OE	O	2340	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	26	01-19-036-28W3	WE	--	01-19-036-28W3	PL	--	OE	O	130	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121833	32	08-20-036-28W3	PL	--	08-20-036-28W3	PL	--	OE	O	130	0.00	0.00	0.00	0.00	0	0	0	n/app.	0	0	0
121836	5	16-19-036-28W3	B	--	16-19-036-28W3	HD	--	SW	O	1080	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
121836	8	01-21-036-28W3	HD	--	02-21-036-28 W3	WE	--	NG	O	340	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
121836	14	16-19-036-28W3	PL	--	02-30-036-28W3	HD	--	SW	O	330	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
124842	1	16-19-036-28W3	B	--	12-20-036-28W3	WE	--	SW	O	230	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
146169	1	04-19-036-28W3	HD	--	12-19-036-28 W3	PL	--	NG	O	1670	168.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	6	08-20-036-28W3	HD	--	09-20-036-28W3	HD	--	NG	O	400	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	7	01-20-036-28W3	WE	--	14-16-036-28W3	HD	--	NG	O	1320	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	9	04-19-036-28W3	PL	--	04-19-036-28W3	PL	--	NG	O	90	114.30	3.20	0.00	0.00	0	0	0	n/app.	0	0	0
146169	11	14-16-036-28W3	WE	--	14-16-036-28W3	HD	--	NG	O	230	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	14	14-16-036-28W3	HD	--	12-15-036-28W3	HD	--	NG	O	1320	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	15	04-22-036-28W3	HD	--	01-21-036-28W3	HD	--	NG	O	380	60.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	19	11-20-036-28W3	WE	--	13-20-036-28W3	HD	--	NG	O	580	60.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	22	13-17-036-28W3	HD	--	01-19-036-28W3	HD	--	NG	O	780	168.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	24	16-20-036-28W3	HD	--	16-19-036-28W3	B	--	NG	O	1670	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
146169	31	13-15-036-28W3	HD	--	04-22-036-28W3	HD	--	NG	O	470	60.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0

Cactus Lake North - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
146169	33	12-19-036-28W3	PL	--	16-19-036-28W3	B	--	NG	O	1570	168.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
153534	1	12-20-036-28W3	WE	--	16-19-036-28W3	B	--	NG	O	440	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
153535	1	12-20-036-28W3	WE	--	16-19-036-28W3	B	--	NG	O	430	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
153603	1	04-19-036-28W3	WE	--	04-19-036-28W3	HD	--	OE	O	160	114.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
153604	1	09-20-036-28W3	PL	--	16-20-036-28W3	PL	--	NG	O	330	114.30	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
155290	14	01-06-037-28W3	WE	--	16-19-036-28W3	B	--	OE	O	3850	168.30	7.80	0.00	0.00	4960	4960	0	n/app.	0	0	0
155290	16	16-19-036-28W3	WE	--	01-30-036-28W3	CS	--	SW	O	200	101.60	7.80	0.00	0.00	4960	4960	0	n/app.	0	0	0
155292	1	16-19-036-28W3	UG	--	01-06-037-28W3	PL	--	FW	O	3770	168.30	7.80	0.00	0.00	8274	8274	0	n/app.	0	0	0
155306	13	01-06-037-28W3	WE	--	16-19-036-28W3	B	--	NG	O	3910	219.10	5.60	0.00	0.00	1034	1034	0	n/app.	0	0	0
239224	3	03-29-036-28W3	WE	--	01-30-036-28W3	HD	--	FW	O	1010	114.30	0.00	0.00	0.00	4137	4137	0	n/app.	0	0	0
239224	6	04-19-036-28W3	HD	--	12-19-036-28W3	PL	--	OE	O	790	168.30	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
239224	7	15-19-036-28W3	PL	--	15-19-036-28W3	PL	--	OE	O	180	0.00	0.00	0.00	0.00	0	0	0	n/app.	0	0	0
239224	8	01-30-036-28W3	HD	--	01-30-036-28W3	WE	--	SW	O	190	0.00	0.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
239225	2	01-19-038-28W3	HD	--	04-19-038-28W3	HD	--	NG	O	1200	152.40	0.00	0.00	0.00	1725	1725	0	n/app.	0	0	0
801024	1	05-17-036-28W3	PL	--	12-20-036-28W3	PL	--	NG	O	2400	114.30	3.20	0.00	0.00	1725	1725	0	n/app.	0	0	0
Discontinued/Suspended Pipelines																					
117868	1	12-17-036-28W3	B	--	12-15-036-28W3	B	--	NG	D	3770	114.30	3.20	0.00	0.00	6205	6205	-	-	-	-	-
121833	5	08-20-036-28W3	PL	--	16-20-036-28W3	PL	--	OE	D	550	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	6	16-20-036-28W3	PL	--	13-20-036-28W3	PL	--	OE	D	1420	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	7	12-20-036-28W3	PL	--	13-20-036-28W3	PL	--	OE	S	230	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	9	13-20-036-28W3	PL	--	13-20-036-28W3	PL	--	OE	D	100	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	11	03-29-036-28W3	PL	--	01-30-036-28W3	PL	--	OE	D	1010	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	16	16-13-036-29W3	PL	--	04-19-036-28W3	PL	--	OE	S	170	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	18	13-17-036-28W3	PL	--	12-17-036-28W3	PL	--	OE	D	600	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	19	13-17-036-28W3	PL	--	13-17-036-28W3	PL	--	OE	D	520	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	20	16-13-036-29W3	PL	--	04-19-036-28W3	PL	--	OE	D	680	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-



Strathcona Resources Ltd.
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Senior HSE Advisor - Heavy Oil

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Cactus Lake North - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Discontinued/Suspended Pipelines																					
121833	21	13-17-036-28W3	PL	--	12-17-036-28W3	PL	--	OE	D	440	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	22	12-15-036-28W3	PL	--	13-16-036-28W3	PL	--	OE	D	1920	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	23	06-16-036-28W3	PL	--	12-15-036-28W3	PL	--	OE	D	1350	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	24	05-16-036-28W3	PL	--	06-16-036-28W3	PL	--	OE	D	540	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	25	13-17-036-28W3	PL	--	13-17-036-28W3	PL	--	OE	D	280	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	27	09-18-036-28W3	PL	--	13-17-036-28W3	PL	--	OE	D	610	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	28	12-15-036-28W3	PL	--	08-20-036-28W3	PL	--	OE	D	2250	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	29	13-16-036-28W3	PL	--	08-20-036-28W3	PL	--	OE	D	650	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	30	05-17-036-28W3	PL	--	12-17-036-28W3	PL	--	OE	D	440	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	31	01-20-036-28W3	PL	--	08-20-036-28W3	PL	--	OE	D	260	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	33	04-22-036-28W3	PL	--	13-15-036-28W3	PL	--	OE	D	380	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	34	05-15-036-28W3	PL	--	12-15-036-28W3	PL	--	OE	D	300	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	35	10-21-036-28W3	WE	--	02-21-036-28W3	WE	--	NG	D	670	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	36	08-20-036-28W3	HD	--	16-20-036-28W3	HD	--	OE	D	550	114.30	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	37	16-13-036-29W3	WE	--	04-19-036-28W3	HD	--	OE	D	680	88.90	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	38	06-16-036-28W3	PL	--	12-15-036-28W3	HD	--	OE	D	1350	114.30	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	39	05-16-036-28W3	PL	--	06-16-036-28W3	PL	--	OE	D	540	88.90	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	40	01-20-036-28W3	WE	--	08-20-036-28W3	HD	--	OE	D	260	88.90	0.00	0.00	0.00	0	0	-	-	-	-	-
121833	41	13-20-036-28W3	WE	--	13-20-036-28W3	PL	--	OE	D	170	76.20	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	1	08-19-036-28W3	PL	--	16-19-036-28W3	PL	--	SW	D	820	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	3	07-20-036-28W3	PL	--	09-20-036-28W3	PL	--	SW	D	670	114.30	0.00	0.00	0.00	10210	10210	-	-	-	-	-
121836	4	08-19-036-28W3	PL	--	07-20-036-28W3	PL	--	SW	D	960	114.30	0.00	0.00	0.00	10210	10210	-	-	-	-	-
121836	6	09-16-036-28W3	PL	--	10-16-036-28W3	PL	--	SW	D	540	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	7	10-16-036-28W3	PL	--	07-16-036-28W3	PL	--	SW	D	580	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	9	07-16-036-28W3	PL	--	01-16-036-28W3	PL	--	SW	D	420	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	10	12-15-036-28W3	PL	--	05-22-036-28W3	PL	--	SW	D	1230	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-



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Cactus Lake North - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Discontinued/Suspended Pipelines																					
121836	11	12-17-036-28W3	PL	--	04-17-036-28W3	PL	--	SW	D	570	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	12	12-17-036-28W3	PL	--	04-20-036-28W3	PL	--	SW	D	950	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	13	13-15-036-28W3	PL	--	08-20-036-28W3	PL	--	SW	D	2250	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
121836	15	02-30-036-28W3	PL	--	07-30-036-28W3	WE	--	SW	D	400	114.30	0.00	0.00	0.00	4960	0	-	-	-	-	-
126950	1	16-18-038-28W3	PL	--	13-17-038-28W3	PL	--	SW	S	160	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
137181	1	12-20-036-28W3	WE	--	11-20-036-28W3	WE	--	SW	D	480	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	3	07-29-036-28W3	PL	--	03-29-036-28W3	PL	--	NG	D	600	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	4	13-15-036-28W3	PL	--	04-22-036-28W3	PL	--	NG	S	470	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	5	09-16-036-28W3	PL	--	13-16-036-28W3	PL	--	NG	S	1510	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	8	14-18-036-28W3	PL	--	04-19-036-28W3	PL	--	NG	S	770	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	10	13-16-036-28W3	PL	--	08-20-036-28W3	PL	--	NG	D	690	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	12	11-16-036-28W3	PL	--	14-16-036-28W3	PL	--	NG	D	670	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	13	11-16-036-28W3	PL	--	14-16-036-28W3	PL	--	NG	S	500	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	16	12-15-036-28W3	PL	--	11-15-036-28W3	PL	--	NG	S	580	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	17	10-17-036-28W3	PL	--	04-20-036-28W3	PL	--	SW	D	1460	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	18	05-17-036-28W3	PL	--	12-17-036-28 W3	PL	--	NG	S	580	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	20	04-20-036-28W3	PL	--	13-17-036-28W3	PL	--	NG	D	530	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	21	16-18-036-28W3	PL	--	13-17-036-28W3	PL	--	NG	D	160	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	23	05-15-036-28W3	PL	--	12-15-036-28 W3	PL	--	NG	D	300	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	25	03-29-036-28W3	PL	--	13-20-036-28W3	PL	--	NG	D	750	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	26	16-13-036-29W3	PL	--	04-19-036-28W3	PL	--	NG	D	650	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	27	02-30-036-28W3	PL	--	02-30-036-28W3	PL	--	NG	D	190	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	28	15-19-036-28W3	PL	--	15-19-036-28W3	PL	--	NG	D	150	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	29	02-30-036-28W3	PL	--	15-19-036-28W3	PL	--	NG	D	170	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146169	32	05-32-036-28W3	PL	--	09-29-036-28W3	PL	--	NG	D	1770	88.90	8.10	0.00	0.00	1100	1100	-	-	-	-	-
146169	34	01-30-036-28W3	PL	--	02-30-036-28W3	PL	--	NG	D	420	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-



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Cactus Lake North - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Discontinued/Suspended Pipelines																					
146169	35	12-17-036-28W3	PL	--	13-17-036-28W3	PL	--	NG	D	240	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
146179	1	12-20-036-28W3	PL	--	13-20-036-28W3	PL	--	FW	S	600	114.30	0.00	0.00	0.00	10210	10210	-	-	-	-	-
239224	1	04-30-036-28W3	PL	--	01-30-036-28W3	PL	--	OE	D	1470	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
239224	2	09-20-036-28W3	PL	--	13-20-036-28W3	PL	--	OE	D	1420	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
239224	4	12-19-036-28W3	PL	--	16-19-036-28W3	PL	--	OE	D	1520	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
239224	5	04-19-036-28W3	PL	--	12-19-036-28W3	PL	--	OE	D	800	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
239225	1	10-20-036-28W3	PL	--	16-20-036-28W3	PL	--	NG	S	330	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
Licensed Pipelines																					
127943	1	07-20-036-28W3	WE	--	07-20-036-28W3	PL	--	UNK	P	120	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
127959	1	16-13-036-29W3	WE	--	13-18-036-28W3	WE	--	UNK	P	200	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
127978	1	04-19-036-28W3	WE	--	04-19-036-28W3	PL	--	UNK	P	30	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
129494	1	13-18-036-28W3	WE	--	01-19-036-28W3	PL	--	UNK	P	1510	101.60	0.00	0.00	0.00	0	0	-	-	-	-	-

Pipeline Legend:

Facility:	B = Battery BE = Blind End CS = Compressor Station DH = Dehydrator GP = Gas Plant GS = Gathering System MS = Meter Station PL = Pipeline S = Satellite WE = Well
Substance:	CO = Crude Oil FG = Fuel Gas FW = Fresh Water NG = Natural Gas OE = Oil Well Effluent OM = Oil Emulsion SC = Sour Crude SE = Sour Effluent SG = Sour Gas SW = Salt Water
Status:	A = Abandoned D = Discontinued I = Inactive O = Operating Q = Active R = Removed S = Suspended TBC = To Be Constructed
Valve:	CV = Check Valve ESD = Emergency Shut Down Valve
Other:	L = Length OD = Outside Diameter WT = Wall Thickness MOP = Maximum Operating Pressure GLR = Gas to Liquid Ratio

Cactus Lake North - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Operating											
SKBTB2H3609	4241	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Battery	Operating	0	0	0	
SKWTW203618	6938	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Water Source	Operating	0	0	0	
SKIFM203702	6938	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Injection Plant	Operating	0	0	0	
SKGSX200020		16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Gas Gathering System	Operating	0	0	0	
SKBTG204300	03H137	10-21-036-28W3			CALTEX RESOURC 10-21-036-28W3	Battery	Operating	0	0	0	
SKBTS2H6136	08D202	01-28-036-28W3			CALTEX RESOURC 01-28-036-28W3	Battery	Operating	0	0	0	
Suspended											
SKBTB2H3602	4232	12-15-036-28W3			CALTEX RESOURC 12-15-036-28W3	Battery	Suspended	-	-	-	
SKGSX200031		12-15-036-28W3			CALTEX RESOURC 12-15-036-28W3	Gas Gathering System	Suspended	-	-	-	
SKIFM203612	3826	01-16-036-28W3			CALTEX RESOURC 01-16-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFM203609	4233	07-16-036-28W3			CALTEX RESOURC 07-16-036-28W3	Injection Plant	Suspended	-	-	-	
SKBTS2H5219	00H074	09-16-036-28W3			CALTEX RESOURC 09-16-036-28W3	Battery	Suspended	-	-	-	
SKIFD203606	4234	10-16-036-28W3			CALTEX RESOURC 10-16-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFI209999	3827	11-16-036-28W3			CALTEX RESOURC 11-16-036-28W3	Injection Plant	Suspended	-	-	-	
SKWTW203602		11-16-036-28W3			CALTEX RESOURC 11-16-036-28W3	Water Source	Suspended	-	-	-	
SKWTW203604		11-16-036-28W3			CALTEX RESOURC 11-16-036-28W3	Water Source	Suspended	-	-	-	
SKWTW203607		13-16-036-28W3			CALTEX RESOURC 13-16-036-28W3	Water Source	Suspended	-	-	-	
SKIFI203606	3828	16-16-036-28W3			CALTEX RESOURC 16-16-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFD203617	4235	04-17-036-28W3			CALTEX RESOURC 04-17-036-28W3	Injection Plant	Suspended	-	-	-	
SKBTS2H4034	96C021	08-17-036-28W3			CALTEX RESOURC 08-17-036-28W3	Battery	Suspended	-	-	-	
SKBTB2H3606	4236	12-17-036-28W3			CALTEX RESOURC 12-17-036-28W3	Battery	Suspended	-	-	-	
SKIFM203652	4237	12-17-036-28W3			CALTEX RESOURC 12-17-036-28W3	Injection Plant	Suspended	-	-	-	
SKBTS2H3736	93C017	05-18-036-28W3			CALTEX RESOURC 05-18-036-28W3	Battery	Suspended	-	-	-	
SKBTS2H0101	74F003	07-18-036-28W3			CALTEX RESOURC 07-18-036-28W3	Battery	Suspended	-	-	-	

Cactus Lake North - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
SKIFD203619	4238	13-18-036-28W3			CALTEX RESOURC 13-18-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFI203605	3830	14-18-036-28W3			CALTEX RESOURC 14-18-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFD203613	4239	16-18-036-28W3			CALTEX RESOURC 16-18-036-28W3	Injection Plant	Suspended	-	-	-	
SKBTG203934	80A041	16-18-036-28W3			CALTEX RESOURC 16-18-036-28W3	Battery	Suspended	-	-	-	
SKWT0018278	4240	08-19-036-28W3			CALTEX RESOURC 08-19-036-28W3	Water Source	Suspended	-	-	-	
SKIFD203616	4240	08-19-036-28W3			CALTEX RESOURC 08-19-036-28W3	Injection Plant	Suspended	-	-	-	
SKBTS2H0209	78E059	10-19-036-28W3			CALTEX RESOURC 10-19-036-28W3	Battery	Suspended	-	-	-	
SKIFI203610	3831	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFM203685	6938	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFM203699	6938	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Injection Plant	Suspended	-	-	-	
SKBT0025151	8734	16-19-036-28W3			CALTEX RESOURC 16-19-036-28W3	Battery	Suspended	-	-	-	
SKIFD203612	4242	07-20-036-28W3			CALTEX RESOURC 07-20-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFI200006	7332	12-20-036-28W3			CALTEX RESOURC 12-20-036-28W3	Injection Plant	Suspended	-	-	-	
SKIFI200007	7332	12-20-036-28W3			CALTEX RESOURC 12-20-036-28W3	Injection Plant	Suspended	-	-	-	
SKWTW203619		12-20-036-28W3			CALTEX RESOURC 12-20-036-28W3	Water Source	Suspended	-	-	-	
SKBTS2H4878	92H062	01-21-036-28W3			CALTEX RESOURC 01-21-036-28W3	Battery	Suspended	-	-	-	
SKBTS2H6154	08H345	01-21-036-28W3			CALTEX RESOURC 01-21-036-28W3	Battery	Suspended	-	-	-	
SKIFD203608	4243	05-22-036-28W3			CALTEX RESOURC 05-22-036-28W3	Injection Plant	Suspended	-	-	-	
SKBT0027493	78I038	11-25-036-28W3			CALTEX RESOURC 11-25-036-28W3	Battery	Suspended	-	-	-	
SKBTH203656	5884	04-27-036-28W3			CALTEX RESOURC 04-27-036-28W3	Battery	Suspended	-	-	-	
SKBTS2H3986	95B091	02-28-036-28W3			CALTEX RESOURC 02-28-036-28W3	Battery	Suspended	-	-	-	
SKBT0029046	00L018	07-29-036-28W3			CALTEX RESOURC 07-29-036-28W3	Battery	Suspended	-	-	-	
SKBTG203836	00L018	07-29-036-28W3			CALTEX RESOURC 07-29-036-28W3	Battery	Suspended	-	-	-	
SKWS0029515		07-29-036-28W3			CALTEX RESOURC 07-29-036-28W3	Water Source	Suspended	-	-	-	



**Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan**

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

Cactus Lake North - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
SKBTG203787	78H150	09-29-036-28W3			CALTEX RESOURC 09-29-036-28W3	Battery	Suspended	-	-	-	
SKIFD203622	4244	07-30-036-28W3			CALTEX RESOURC 07-30-036-28W3	Injection Plant	Suspended	-	-	-	
SKWT0018593	4244	07-30-036-28W3			CALTEX RESOURC 07-30-036-28W3	Water Source	Suspended	-	-	-	
SKBTS2H5512	02C064	02-31-036-28W3			CALTEX RESOURC 02-31-036-28W3	Battery	Suspended	-	-	-	
SKBTG204157	05H292	05-32-036-28W3			CALTEX RESOURC 05-32-036-28W3	Battery	Suspended	-	-	-	
SKBTS2H5722	03I019	10-32-036-28W3			CALTEX RESOURC 10-32-036-28W3	Battery	Suspended	-	-	-	
SKBTS2H5731	03H138	10-33-036-28W3			CALTEX RESOURC 10-33-036-28W3	Battery	Suspended	-	-	-	
SKBTS2H3737	93C016	09-13-036-29W3			CALTEX RESOURC 09-13-036-29W3	Battery	Suspended	-	-	-	

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
140933	101/07-29-036-28W3/0	07-29-036-28W3	52.119769	-109.962211	CALTEX 7-29-36-28	0.00	0	D&C	N/A	0	0	0
141009	102/07-29-036-28W3/0	07-29-036-28W3	52.120248	-109.961441	CALTEX 102 7-29-36-28	0.00	0	OBS	N/A	0	0	0
003H126	111/16-31-036-28W3/0	16-31-036-28W3	52.141539	-109.980248	PENGROWTH CACTUS LAKE N A16-31-36-28	0.00	0	SUS	OIL	0	0	0
003I019	111/10-32-036-28W3/0	10-32-036-28W3	52.137585	-109.963035	PENGROWTH CACTUS LAKE N A10-32-36-28	0.00	0	SUS	OIL	0	0	0
003H138	111/10-33-036-28W3/0	10-33-036-28W3	52.136613	-109.939632	PENGROWTH CACTUS LAKE N A10-33-36-28	0.00	0	SUS	OIL	0	0	0
098B188	111/12-04-037-28W3/0	12-04-037-28W3	52.151393	-109.952643	PENGROWTH COSINE LAKE DD 1B12-4-2A12-4-37-28	0.00	0	SHUT-IN	GAS	0	0	0
003H140	111/14-04-037-28W3/0	14-04-037-28W3	52.155511	-109.944459	PENGROWTH COSINE LAKE A14-4-37-28	0.00	0	SUS	OIL	0	0	0
008B196	191/14-06-037-28W3/0	01-06-037-28W3	52.145333	-109.979665	PENGROWTH COSINE LK HZ 4A1-6-2A14-6-37-28	0.00	0	PMP	OIL	0	0	0
008D273	192/14-06-037-28W3/0	01-06-037-28W3	52.145332	-109.979957	PENGROWTH COSINE LK HZ 16A1-6-2B14-6-37-28	0.00	0	PMP	OIL	0	0	0
079F132	101/08-06-037-28W3/0	08-06-037-28W3	52.149048	-109.981854	PENGROWTH ET AL COSINE 8-6-37-28	0.00	0	SUS	OIL	0	0	0
003I023	111/16-06-037-28W3/0	16-06-037-28W3	52.155087	-109.980256	PENGROWTH COSINE LAKE A16-6-37-28	0.00	0	SUS	OIL	0	0	0
003I023	111/16-06-037-28W3/2	16-06-037-28W3	52.155087	-109.980256	PENGROWTH COSINE LAKE A16-6-37-28	0.00	0	OBS	N/A	0	0	0
083L008	191/04-07-037-28W3/0	05-07-037-28W3	52.16176	-110.001076	PENGROWTH MACKLIN DD 2B5-7-2C4-7-37-28	0.00	0	SUS	OIL	0	0	0
082J006	101/10-07-037-28W3/0	10-07-037-28W3	52.167137	-109.987618	PENGROWTH MACKLIN 10-7-37-28	0.00	0	SUS	OIL	0	0	0
078I089	101/01-08-037-28W3/0	01-08-037-28W3	52.159942	-109.95799	PENGROWTH COSINE LAKE 1-8-37-28	0.00	0	SUS	OIL	0	0	0
008G043	191/12-08-037-28W3/0	07-08-037-28W3	52.163982	-109.963845	PENGROWTH COSINE LAKE HZ 10D7-8-4C12-8-37-28	0.00	0	SUS	OIL	0	0	0
008G042	191/13-08-037-28W3/0	07-08-037-28W3	52.164072	-109.963846	PENGROWTH COSINE LAKE HZ 6D7-8-4B13-8-37-28	0.00	0	SUS	OIL	0	0	0
0191061	101/13-04-037-28W3/0	08-08-037-28W3	52.162833	-109.957318	CALTEX COSINE LK HZ 13-4-37-28	0.00	0	PROD	OIL	0	0	0
0186620	101/14-04-037-28W3/0	08-08-037-28W3	52.162706	-109.956899	CALTEX COSINE LK HZ 14-4-37-28	0.00	0	PROD	OIL	0	0	0
0189844	103/14-04-037-28W3/0	08-08-037-28W3	52.162801	-109.957214	CALTEX COSINE LK 103 HZ 14-4-37-28	0.00	0	PROD	OIL	0	0	0
003H104	111/10-08-037-28W3/0	10-08-037-28W3	52.166654	-109.962695	PENGROWTH COSINE LAKE A10-8-37-28	0.00	0	SUS	OIL	0	0	0
0128155	102/01-08-037-28W3/0	15-08-037-28W3	52.169537	-109.96523	CALTEX COSINE LK 102 HZ 1-8-37-28	0.00	0	PMP	OIL	0	0	0
0128127	104/01-08-037-28W3/0	15-08-037-28W3	52.169538	-109.964996	CALTEX COSINE LK 104 HZ 1-8-37-28	0.00	0	PMP	OIL	0	0	0

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0128033	101/11-09-037-28W3/0	15-08-037-28W3	52.169539	-109.964879	CALTEX COSINE LK HZ 11-9-37-28	0.00	0	LIC	POLY	0	0	0
0189261	102/03-09-037-28W3/0	16-08-037-28W3	52.169253	-109.958585	CALTEX COSINE LK 102 HZ 3-9-37-28	0.00	0	PROD	OIL	0	0	0
0190976	101/04-09-037-28W3/0	16-08-037-28W3	52.169317	-109.958794	CALTEX COSINE LK HZ 4-9-37-28	0.00	0	PROD	OIL	0	0	0
0191102	103/04-09-037-28W3/0	16-08-037-28W3	52.16938	-109.959004	CALTEX COSINE LK 103 HZ 4-9-37-28	0.00	0	PROD	OIL	0	0	0
011F367	191/06-09-037-28W3/0	02-09-037-28W3	52.161575	-109.942369	PENGROWTH PRIMATE WEST DD 3C2-9-2A6-9-37-28	0.00	0	SUS	OIL	0	0	0
0109075	102/09-08-037-28W3/0	02-17-037-28W3	52.174845	-109.964056	CALTEX COSINE LK 102 HZ 9-8-37-28	0.00	0	D&C	OIL	0	0	0
0109081	103/09-08-037-28W3/0	02-17-037-28W3	52.174813	-109.963951	CALTEX COSINE LK 103 HZ 9-8-37-28	0.00	0	PMP	OIL	0	0	0
0109103	105/09-08-037-28W3/0	02-17-037-28W3	52.17475	-109.96374	CALTEX COSINE LK HZ 12-9-37-28	0.00	0	PMP	OIL	0	0	0
0109118	103/12-09-037-28W3/0	02-17-037-28W3	52.174718	-109.963635	CALTEX COSINE LK 103 HZ 12-9-37-28	0.00	0	PMP	OIL	0	0	0
0108734	104/10-08-037-28W3/0	03-17-037-28W3	52.174239	-109.972248	CALTEX COSINE LK 104 HZ 10-8-37-28	0.00	0	PMP	OIL	0	0	0
0108738	105/10-08-037-28W3/0	03-17-037-28W3	52.174239	-109.971809	CALTEX COSINE LK 105 HZ 10-8-37-28	0.00	0	PMP	OIL	0	0	0
0127197	101/04-16-037-28W3/0	03-17-037-28W3	52.175422	-109.969743	CALTEX COSINE LK 103 HZ 3-16-37-28	0.00	0	PMP	OIL	0	0	0
0127234	103/08-17-037-28W3/0	03-17-037-28W3	52.175566	-109.969743	CALTEX COSINE LK 102 HZ 6-16-37-28	0.00	0	PMP	OIL	0	0	0
0126985	101/11-08-037-28W3/0	04-17-037-28W3	52.174978	-109.976818	CALTEX COSINE LK HZ 11-8-37-28	0.00	0	PMP	OIL	0	0	0
0127010	103/11-08-037-28W3/0	04-17-037-28W3	52.174978	-109.977051	CALTEX COSINE LK 103 HZ 11-8-37-28	0.00	0	PMP	OIL	0	0	0
073H017	101/04-17-037-28W3/2	04-17-037-28W3	52.174538	-109.975572	PENGROWTH MACKLIN 4-17-37-28	0.00	0	SUS	WTR	0	0	0
0128748	102/04-17-037-28W3/0	04-17-037-28W3	52.174978	-109.976818	CALTEX 102 4-17-37-28	0.00	0	D&C	N/A	0	0	0
0127026	107/10-18-037-28W3/0	04-17-037-28W3	52.174978	-109.977168	CALTEX COSINE LK 107 HZ 10-18-37-28	0.00	0	PMP	OIL	0	0	0
0074442	101/10-18-037-28W3/0	05-17-037-28W3	52.177426	-109.975591	CALTEX COSINE LK HZ 10-18-37-28	0.00	0	PMP	OIL	0	0	0
0074442	102/10-18-037-28W3/2	05-17-037-28W3	52.177426	-109.975591	CALTEX COSINE LK HZ 10-18-37-28	0.00	0	LIC	N/A	0	0	0
0074439	106/10-18-037-28W3/2	05-17-037-28W3	52.177282	-109.975591	CALTEX COSINE LK 105 HZ 10-18-37-28	0.00	0	D&C	N/A	0	0	0
0107772	103/15-18-037-28W3/0	05-17-037-28W3	52.178174	-109.975591	CALTEX COSINE LK 103 HZ 15-18-37-28	0.00	0	PMP	OIL	0	0	0
0124737	101/10-17-037-28W3/0	07-17-037-28W3	52.177995	-109.963586	CALTEX DD 10-17-37-28	0.00	0	D&C	N/A	0	0	0

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
083K231	101/11-17-037-28W3/0	11-17-037-28W3	52.18175	-109.970016	PENGROWTH MACKLIN 11-17-37-28	0.00	0	SUS	OIL	0	0	0
0087801	102/11-17-037-28W3/0	11-17-037-28W3	52.181684	-109.970063	CALTEX 102 11-17-37-28	0.00	0	SOURCE	WTR	0	0	0
0087810	103/11-17-037-28W3/0	11-17-037-28W3	52.181863	-109.970063	CALTEX 103 11-17-37-28	0.00	0	OBS	N/A	0	0	0
0087813	104/11-17-037-28W3/0	11-17-037-28W3	52.181613	-109.971117	CALTEX 104 11-17-37-28	0.00	0	OBS	N/A	0	0	0
0101446	104/15-18-037-28W3/0	12-17-037-28W3	52.180912	-109.976144	CALTEX COSINE LK 104 HZ 15-18-37-28	0.00	0	PMP	OIL	0	0	0
0101453	106/15-18-037-28W3/0	12-17-037-28W3	52.18105	-109.976084	CALTEX COSINE LK 102 HZ 2-19-37-28	0.00	0	PMP	OIL	0	0	0
0068729	102/03-17-037-28W3/0	01-18-037-28W3	52.175118	-109.981484	CALTEX COSINE LK 105 HZ 2-17-37-28	0.00	0	PMP	OIL	0	0	0
0068729	103/03-17-037-28W3/2	01-18-037-28W3	52.175118	-109.981484	CALTEX COSINE LK 105 HZ 2-17-37-28	0.00	0	D&C	N/A	0	0	0
0068727	102/06-17-037-28W3/0	01-18-037-28W3	52.175262	-109.981484	CALTEX COSINE LK 104 HZ 7-17-37-28	0.00	0	PMP	OIL	0	0	0
0068727	103/06-17-037-28W3/2	01-18-037-28W3	52.175262	-109.981484	CALTEX COSINE LK 104 HZ 7-17-37-28	0.00	0	D&C	N/A	0	0	0
083K232	101/02-18-037-28W3/0	02-18-037-28W3	52.17441	-109.987627	PENGROWTH MACKLIN 2-18-37-28	0.00	0	SUS	OIL	0	0	0
0076330	102/04-18-037-28W3/0	02-18-037-28W3	52.176004	-109.986848	CALTEX COSINE LK 102 HZ 1-13-37-29	0.00	0	PMP	OIL	0	0	0
0075764	101/01-13-037-29W3/2	02-18-037-28W3	52.175932	-109.986847	CALTEX HZ 1-13-37-29	0.00	0	D&C	N/A	0	0	0
0076330	103/01-13-037-29W3/2	02-18-037-28W3	52.176004	-109.986848	CALTEX COSINE LK 102 HZ 1-13-37-29	0.00	0	LIC	N/A	0	0	0
0076387	104/08-13-037-29W3/0	02-18-037-28W3	52.176291	-109.986848	CALTEX COSINE LK 104 HZ 8-13-37-29	0.00	0	PMP	OIL	0	0	0
0084170	107/08-13-037-29W3/0	02-18-037-28W3	52.176147	-109.986848	CALTEX COSINE LK 107 HZ 8-13-37-29	0.00	0	PMP	OIL	0	0	0
083G018	131/03-18-037-28W3/0	03-18-037-28W3	52.174849	-109.994736	PENGROWTH MACKLIN 3-18-37-28	0.00	0	SUS	OIL	0	0	0
082J007	101/04-18-037-28W3/0	04-18-037-28W3	52.17452	-109.999446	PENGROWTH MACKLIN 4-18-37-28	0.00	0	SUS	OIL	0	0	0
0051532	102/16-07-037-28W3/0	06-18-037-28W3	52.179429	-109.992514	CALTEX COSINE LK 102 HZ 16-7-37-28	0.00	0	PMP	OIL	0	0	0
0051547	101/01-18-037-28W3/0	06-18-037-28W3	52.179428	-109.992001	CALTEX COSINE LK HZ 1-18-37-28	0.00	0	PMP	OIL	0	0	0
0076423	104/01-18-037-28W3/0	06-18-037-28W3	52.179607	-109.991845	CALTEX COSINE LK 104 HZ 1-18-37-28	0.00	0	PMP	OIL	0	0	0
0076423	105/01-18-037-28W3/2	06-18-037-28W3	52.179607	-109.991845	CALTEX COSINE LK 104 HZ 1-18-37-28	0.00	0	LIC	N/A	0	0	0
072K072	101/07-18-037-28W3/0	07-18-037-28W3	52.178166	-109.987631	PENGROWTH MACKLIN 7-18-37-28	0.00	0	SUS	OIL	0	0	0

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
072K072	101/07-18-037-28W3/2	07-18-037-28W3	52.178166	-109.987631	PENGROWTH MACKLIN 7-18-37-28	0.00	0	SUS	WTR	0	0	0
0063100	102/07-18-037-28W3/0	07-18-037-28W3	52.177764	-109.988749	CALTEX 102 7-18-37-28	0.00	0	OBS	N/A	0	0	0
0063289	103/07-18-037-28W3/0	07-18-037-28W3	52.178013	-109.987592	CALTEX 103 7-18-37-28	0.00	0	PMP	WTR	0	0	0
0063781	104/07-18-037-28W3/0	07-18-037-28W3	52.177833	-109.987592	CALTEX 104 7-18-37-28	0.00	0	OBS	N/A	0	0	0
0125584	104/07-17-037-28W3/0	08-18-037-28W3	52.179565	-109.981003	CALTEX COSINE LK 103 HZ 8-17-37-28	0.00	0	PMP	OIL	0	0	0
0125456	101/08-17-037-28W3/0	08-18-037-28W3	52.179421	-109.981003	CALTEX COSINE LK HZ 8-17-37-28	0.00	0	PMP	OIL	0	0	0
0125708	103/10-17-037-28W3/0	08-18-037-28W3	52.179709	-109.981003	CALTEX COSINE LK 102 HZ 9-17-37-28	0.00	0	PMP	OIL	0	0	0
082J008	101/08-18-037-28W3/0	08-18-037-28W3	52.17816	-109.981755	PENGROWTH MACKLIN 8-18-37-28	0.00	0	SUS	OIL	0	0	0
083G019	101/09-18-037-28W3/0	09-18-037-28W3	52.181779	-109.98175	PENGROWTH MACKLIN 9-18-37-28	0.00	0	SUS	OIL	0	0	0
0080230	101/09-13-037-29W3/0	10-18-037-28W3	52.181888	-109.987226	CALTEX COSINE LK HZ 9-13-37-29	0.00	0	PMP	OIL	0	0	0
0080230	102/09-13-037-29W3/2	10-18-037-28W3	52.181888	-109.987226	CALTEX COSINE LK HZ 9-13-37-29	0.00	0	LIC	N/A	0	0	0
0080280	104/09-13-037-29W3/0	10-18-037-28W3	52.182032	-109.987227	CALTEX COSINE LK 104 HZ 9-13-37-29	0.00	0	PMP	OIL	0	0	0
0080280	105/09-13-037-29W3/2	10-18-037-28W3	52.182032	-109.987227	CALTEX COSINE LK 104 HZ 9-13-37-29	0.00	0	LIC	N/A	0	0	0
0080298	103/16-13-037-29W3/0	10-18-037-28W3	52.182175	-109.987227	CALTEX COSINE LK 103 HZ 16-13-37-29	0.00	0	PMP	OIL	0	0	0
0080298	104/16-13-037-29W3/2	10-18-037-28W3	52.182175	-109.987227	CALTEX COSINE LK 103 HZ 16-13-37-29	0.00	0	LIC	N/A	0	0	0
082E017	141/15-18-037-28W3/2	15-18-037-28W3	52.186121	-109.98763	PENGROWTH MACKLIN 15-18-37-28	0.00	0	SUS	GAS	0	0	0
0051474	101/16-13-037-29W3/0	15-18-037-28W3	52.186531	-109.986172	CALTEX COSINE LK HZ 16-13-37-29	0.00	0	PMP	OIL	0	0	0
0051493	101/01-24-037-29W3/0	15-18-037-28W3	52.1868	-109.98617	CALTEX COSINE LK HZ 1-24-37-29	0.00	0	PMP	OIL	0	0	0
0061277	103/01-24-037-29W3/0	15-18-037-28W3	52.1868	-109.98617	CALTEX COSINE LK 103 HZ 1-24-37-29	0.00	0	PMP	OIL	0	0	0
082J009	101/02-19-037-28W3/0	02-19-037-28W3	52.189009	-109.987614	PENGROWTH MACKLIN 2-19-37-28	0.00	0	SUS	OIL	0	0	0
072A014	101/03-19-037-28W3/0	03-19-037-28W3	52.189016	-109.993735	PENGROWTH MACKLIN 3-19-37-28	0.00	0	SUS	OIL	0	0	0
0109024	102/01-24-037-29W3/0	07-19-037-28W3	52.191885	-109.986793	CALTEX COSINE LK 102 HZ 1-24-37-29	0.00	0	PMP	OIL	0	0	0
0109042	101/08-24-037-29W3/0	07-19-037-28W3	52.192173	-109.986793	CALTEX COSINE LK HZ 8-24-37-29	0.00	0	PMP	OIL	0	0	0

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0109032	104/08-24-037-29W3/0	07-19-037-28W3	52.192029	-109.986793	CALTEX COSINE LK 104 HZ 8-24-37-29	0.00	0	PMP	OIL	0	0	0
080K077	141/08-12-037-29W3/0	08-12-037-29W3	52.164642	-110.003123	PENGROWTH MACKLIN 8-12-37-29	0.00	0	SUS	OIL	0	0	0
083G020	141/08-13-037-29W3/0	08-13-037-29W3	52.179106	-110.002999	PENGROWTH MACKLIN 8-13-37-29	0.00	0	SUS	OIL	0	0	0
078H079	141/09-13-037-29W3/0	09-13-037-29W3	52.182151	-110.002945	PENGROWTH MACKLIN 9-13-37-29	0.00	0	SUS	OIL	0	0	0
082J090	111/01-24-037-29W3/0	01-24-037-29W3	52.188358	-110.002943	PENGROWTH MACKLIN 1-24-37-29	0.00	0	SUS	OIL	0	0	0
080K078	111/08-24-037-29W3/2	08-24-037-29W3	52.192139	-110.003088	PENGROWTH MACKLIN 8-24-37-29	0.00	0	SUS	OIL	0	0	0
Injection Wells												
008D271	191/10-06-037-28W3/0	01-06-037-28W3	52.145334	-109.979519	PENGROWTH COSINE LK HZ 8A1-6-3C10-6-37-28	0.00	0	INJ	WTR	0	0	0
008D272	191/11-06-037-28W3/0	01-06-037-28W3	52.145332	-109.979811	PENGROWTH COSINE LK HZ 12A1-6-3D11-6-37-28	0.00	0	INJ	WTR	0	0	0
0191138	102/13-04-037-28W3/0	08-08-037-28W3	52.162897	-109.957528	CALTEX COSINE LK 102 HZ 13-4-37-28	0.00	0	INJ	GAS	0	0	0
0188438	102/14-04-037-28W3/0	08-08-037-28W3	52.162801	-109.957214	CALTEX COSINE LK 102 HZ 14-4-37-28	0.00	0	INJ	GAS	0	0	0
0191129	104/14-04-037-28W3/0	08-08-037-28W3	52.162833	-109.957318	CALTEX COSINE LK 104 HZ 14-4-37-28	0.00	0	INJ	GAS	0	0	0
0186082	101/15-04-037-28W3/0	08-08-037-28W3	52.162706	-109.956899	CALTEX COSINE LK HZ 15-4-37-28	0.00	0	INJ	GAS	0	0	0
0128163	103/01-08-037-28W3/0	15-08-037-28W3	52.169537	-109.965347	CALTEX COSINE LK 103 HZ 1-8-37-28	0.00	0	INJ	GAS	0	0	0
0128148	105/01-08-037-28W3/0	15-08-037-28W3	52.169538	-109.965113	CALTEX COSINE LK 105 HZ 1-8-37-28	0.00	0	INJ	GAS	0	0	0
0187166	101/03-09-037-28W3/0	16-08-037-28W3	52.169221	-109.95848	CALTEX COSINE LK HZ 3-9-37-28	0.00	0	INJ	GAS	0	0	0
0189860	103/03-09-037-28W3/0	16-08-037-28W3	52.169285	-109.95869	CALTEX COSINE LK 103 HZ 3-9-37-28	0.00	0	INJ	GAS	0	0	0
0191070	102/04-09-037-28W3/0	16-08-037-28W3	52.169348	-109.958899	CALTEX COSINE LK 102 HZ 4-9-37-28	0.00	0	INJ	GAS	0	0	0
0109106	104/09-08-037-28W3/0	02-17-037-28W3	52.174782	-109.963846	CALTEX COSINE LK 104 HZ 9-8-37-28	0.00	0	INJ	GAS	0	0	0
0109113	102/12-09-037-28W3/0	02-17-037-28W3	52.174718	-109.963635	CALTEX COSINE LK 102 HZ 12-9-37-28	0.00	0	INJ	GAS	0	0	0
008G031	191/08-08-037-28W3/0	03-17-037-28W3	52.17424	-109.972027	PENGROWTH COSINE LAKE HZ 3B3-17-3A8-8-37-28	0.00	0	INJ	GAS	0	0	0
0108726	101/09-08-037-28W3/0	03-17-037-28W3	52.174239	-109.971692	CALTEX COSINE LK HZ 9-8-37-28	0.00	0	INJ	GAS	0	0	0
0108729	103/10-08-037-28W3/0	03-17-037-28W3	52.174239	-109.972365	CALTEX COSINE LK 103 HZ 10-8-37-28	0.00	0	INJ	GAS	0	0	0

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Injection Wells												
0127201	102/04-16-037-28W3/0	03-17-037-28W3	52.17535	-109.969743	CALTEX COSINE LK 102 HZ 3-16-37-28	0.00	0	SUS	GAS	0	0	0
0127235	101/01-17-037-28W3/0	03-17-037-28W3	52.175494	-109.969743	CALTEX COSINE LK HZ 3-16-37-28	0.00	0	INJ	GAS	0	0	0
0127239	104/08-17-037-28W3/0	03-17-037-28W3	52.175638	-109.969743	CALTEX COSINE LK HZ 6-16-37-28	0.00	0	INJ	GAS	0	0	0
0126998	102/11-08-037-28W3/0	04-17-037-28W3	52.174978	-109.976934	CALTEX COSINE LK 102 HZ 11-8-37-28	0.00	0	INJ	GAS	0	0	0
0127015	104/11-08-037-28W3/0	04-17-037-28W3	52.174978	-109.977285	CALTEX COSINE LK 102 HZ 13-8-37-28	0.00	0	INJ	GAS	0	0	0
0074437	105/07-18-037-28W3/0	05-17-037-28W3	52.17721	-109.975591	CALTEX COSINE LK 107 HZ 10-18-37-28	0.00	0	INJ	GAS	0	0	0
0074441	104/10-18-037-28W3/0	05-17-037-28W3	52.177354	-109.975591	CALTEX COSINE LK 104 HZ 10-18-37-28	0.00	0	INJ	GAS	0	0	0
0074605	101/15-18-037-28W3/0	05-17-037-28W3	52.177498	-109.975591	CALTEX COSINE LK HZ 15-18-37-28	0.00	0	INJ	GAS	0	0	0
0101435	102/15-18-037-28W3/0	12-17-037-28W3	52.180842	-109.976175	CALTEX COSINE LK 102 HZ 15-18-37-28	0.00	0	INJ	GAS	0	0	0
0101469	105/15-18-037-28W3/0	12-17-037-28W3	52.180981	-109.976113	CALTEX COSINE LK 104 HZ 2-19-37-28	0.00	0	INJ	GAS	0	0	0
0101461	103/02-19-037-28W3/0	12-17-037-28W3	52.18112	-109.976053	CALTEX COSINE LK 103 HZ 2-19-37-28	0.00	0	INJ	GAS	0	0	0
0068732	101/03-17-037-28W3/0	01-18-037-28W3	52.17519	-109.981484	CALTEX COSINE LK 107 HZ 2-17-37-28	0.00	0	INJ	WTR	0	0	0
0068704	104/03-17-037-28W3/0	01-18-037-28W3	52.175046	-109.981484	CALTEX COSINE LK 108 HZ 2-17-37-28	0.00	0	INJ	WTR	0	0	0
0069202	101/06-17-037-28W3/0	01-18-037-28W3	52.175334	-109.981484	CALTEX COSINE LK 107 HZ 7-17-37-28	0.00	0	INJ	WTR	0	0	0
0075764	101/01-13-037-29W3/0	02-18-037-28W3	52.175932	-109.986847	CALTEX HZ 1-13-37-29	0.00	0	INJ	GAS	0	0	0
0076419	104/01-13-037-29W3/0	02-18-037-28W3	52.176076	-109.986848	CALTEX COSINE LK 104 HZ 1-13-37-29	0.00	0	INJ	GAS	0	0	0
0076334	103/08-13-037-29W3/0	02-18-037-28W3	52.176219	-109.986848	CALTEX COSINE LK 103 HZ 8-13-37-29	0.00	0	INJ	GAS	0	0	0
0051537	101/16-07-037-28W3/0	06-18-037-28W3	52.17943	-109.992733	CALTEX COSINE LK HZ 16-7-37-28	0.00	0	INJ	GAS	0	0	0
008H111	191/16-07-037-28W3/0	06-18-037-28W3	52.17944	-109.992296	PENGROWTH COSINE LK HZ 3D6-18-3D16-7-37-28	0.00	0	INJ	WTR	0	0	0
0076422	103/01-18-037-28W3/0	06-18-037-28W3	52.179535	-109.991845	CALTEX COSINE LK 103 HZ 1-18-37-28	0.00	0	INJ	GAS	0	0	0
0125543	102/08-17-037-28W3/0	08-18-037-28W3	52.179493	-109.981003	CALTEX COSINE LK 102 HZ 8-17-37-28	0.00	0	INJ	GAS	0	0	0
0125700	102/10-17-037-28W3/0	08-18-037-28W3	52.179637	-109.981003	CALTEX COSINE LK 103 HZ 9-17-37-28	0.00	0	INJ	GAS	0	0	0
0125711	104/10-17-037-28W3/0	08-18-037-28W3	52.179781	-109.981003	CALTEX COSINE LK HZ 9-17-37-28	0.00	0	INJ	GAS	0	0	0

Cosine - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Injection Wells												
0080207	101/05-18-037-28W3/0	10-18-037-28W3	52.181816	-109.987226	CALTEX COSINE LK 106 HZ 8-13-37-29	0.00	0	INJ	GAS	0	0	0
0080278	103/09-13-037-29W3/0	10-18-037-28W3	52.18196	-109.987227	CALTEX COSINE LK 103 HZ 9-13-37-29	0.00	0	INJ	GAS	0	0	0
0080294	106/09-13-037-29W3/0	10-18-037-28W3	52.182103	-109.987227	CALTEX COSINE LK 106 HZ 9-13-37-29	0.00	0	INJ	GAS	0	0	0
0080299	105/16-13-037-29W3/0	10-18-037-28W3	52.182247	-109.987227	CALTEX COSINE LK 105 HZ 16-13-37-29	0.00	0	INJ	GAS	0	0	0
0061021	101/04-19-037-28W3/0	15-18-037-28W3	52.186693	-109.986172	CALTEX COSINE LK 102 HZ 1-24-37-29	0.00	0	INJ	GAS	0	0	0
0051726	102/16-13-037-29W3/0	15-18-037-28W3	52.186666	-109.986172	CALTEX COSINE LK 102 HZ 16-13-37-29	0.00	0	INJ	GAS	0	0	0
0109020	104/01-24-037-29W3/0	07-19-037-28W3	52.191813	-109.986793	CALTEX COSINE LK 104 HZ 1-24-37-29	0.00	0	INJ	GAS	0	0	0
0109043	102/08-24-037-29W3/0	07-19-037-28W3	52.192245	-109.986792	CALTEX COSINE LK 102 HZ 8-24-37-29	0.00	0	INJ	GAS	0	0	0
0109040	103/08-24-037-29W3/0	07-19-037-28W3	52.192101	-109.986793	CALTEX COSINE LK 103 HZ 8-24-37-29	0.00	0	INJ	GAS	0	0	0
0109026	105/08-24-037-29W3/0	07-19-037-28W3	52.191957	-109.986793	CALTEX COSINE LK 105 HZ 8-24-37-29	0.00	0	INJ	GAS	0	0	0

Cosine - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Pipelines																					
143841	1	01-18-037-28W3	WE	--	07-18-037-28W3	B	--	OE	O	610	219.10	5.60	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	2	03-17-037-28W3	WE	--	01-18-037-28W3	S	--	OE	O	890	168.30	4.80	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	3	02-17-037-28W3	WE	--	03-17-037-28W3	PL	--	OE	O	620	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	4	05-17-037-28W3	WE	--	04-17-037-28W3	PL	--	OE	O	320	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	5	12-17-037-28W3	WE	--	05-17-037-28W3	PL	--	OE	O	500	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	7	02-18-037-28W3	WE	--	07-18-037-28W3	PL	--	OE	O	230	168.30	4.80	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	8	10-18-037-28W3	WE	--	07-18-037-28W3	PL	--	OE	O	600	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143842	2	03-17-037-28W3	WE	--	01-18-037-28W3	S	--	OE	O	890	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	3	02-17-037-28W3	WE	--	03-17-037-28W3	PL	--	OE	O	620	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	4	05-17-037-28W3	WE	--	04-17-037-28W3	PL	--	OE	O	320	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	5	12-17-037-28W3	WE	--	05-17-037-28W3	PL	--	OE	O	500	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	6	06-18-037-28W3	WE	--	07-18-037-28W3	B	--	OE	O	320	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	7	02-18-037-28W3	WE	--	07-18-037-28W3	PL	--	OE	O	230	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	8	10-18-037-28W3	WE	--	07-18-037-28W3	PL	--	OE	O	600	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	9	15-18-037-28W3	WE	--	07-18-037-28W3	B	--	OE	O	890	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	10	07-19-037-28W3	WE	--	15-18-037-28W3	PL	--	OE	O	690	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	11	07-19-037-28W3	WE	--	15-18-037-28W3	PL	--	OE	O	690	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
143842	12	07-19-037-28W3	WE	--	15-18-037-28W3	PL	--	OE	O	690	100.00	12.00	5.00	0.00	9928	9928	0	n/app.	0	0	0
239219	1	06-18-037-28W3	WE	--	07-18-037-28W3	B	--	OE	O	320	168.30	4.80	5.00	0.00	4960	4960	0	n/app.	0	0	0
239219	2	15-18-037-28W3	WE	--	07-18-037-28W3	B	--	OE	O	890	168.30	4.80	5.00	0.00	4960	4960	0	n/app.	0	0	0
852609	1	08-08-037-28W3	WE	--	15-08-037-28W3	WE	--	OE	UC	1050	219.10	5.60	0.20	0.00			0	n/app.	0	0	0
852609	2	16-08-037-28W3	WE	--	15-08-037-28W3	WE	--	OE	UC	500	129.00	15.00	0.20	0.00			0	n/app.	0	0	0
134980	1	09-06-037-28W3	PL	--	01-06-037-28W3	S	--	NG	O	1130	219.10	18.70	5.00	0.00	1736	1736	0	n/app.	0	0	0
137320	1	16-06-037-28W3	WE	--	09-06-037-28W3	UG	--	NG	O	200	168.30	18.70	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	1	01-18-037-28W3	WE	--	07-18-037-28W3	B	--	NG	O	610	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	2	03-17-037-28W3	WE	--	01-18-037-28W3	PL	--	NG	O	890	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

Cosine - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Pipelines																					
143845	3	02-17-037-28W3	WE	--	03-17-037-28W3	PL	--	NG	O	620	60.30	6.70	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	4	05-17-037-28W3	WE	--	04-17-037-28W3	PL	--	NG	O	320	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	5	12-17-037-28W3	WE	--	05-17-037-28W3	PL	--	NG	O	500	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	7	02-18-037-28W3	WE	--	07-18-037-28W3	PL	--	NG	O	230	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	8	10-18-037-28W3	PL	--	07-18-037-28W3	PL	--	NG	O	60	60.30	6.70	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	9	15-18-037-28W3	WE	--	07-18-037-28W3	B	--	NG	O	890	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	10	07-19-037-28W3	WE	--	15-18-037-28W3	PL	--	NG	O	690	60.30	6.70	5.00	0.00	1736	1736	0	n/app.	0	0	0
143845	11	06-18-037-28W3	WE	--	07-18-037-28W3	B	--	NG	O	320	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
155305	1	07-18-037-28W3	B	--	07-07-037-28W3	WE	--	NG	O	1700	88.90	2.80	5.00	0.00	6900	6900	0	n/app.	0	0	0
155305	12	07-07-037-28W3	PL	--	16-06-037-28W3	PL	--	NG	O	1070	88.90	9.90	5.00	0.00	1736	1736	0	n/app.	0	0	0
852612	1	08-08-037-28W3	WE	--	15-08-037-28W3	WE	--	NG	UC	1050	88.90	9.90	0.20	0.00			0	n/app.	0	0	0
852612	2	16-08-037-28W3	WE	--	15-08-037-28W3	WE	--	NG	UC	500	60.30	6.70	0.20	0.00			0	n/app.	0	0	0
Sweet Pipelines																					
124328	1	07-18-037-28W3		--	04-17-037-28W3		--	SW	O	910	60.30	0.00	0.00	0.00	0	0	0	n/app.	0	0	0
124801	1	01-06-037-28W3	WE	--	16-19-036-28W3	UG	--	SW	O	4760	168.30	0.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
141024	1	06-18-037-28W3	WE	--	07-18-037-28W3	B	--	NG	O	290	0.00	0.00	0.00	0.00	0	0	0	n/app.	0	0	0
143841	11	04-17-037-28W3	UG	--	04-17-037-28W3	PL	--	OE	O	190	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	12	08-18-037-28W3	UG	--	07-18-037-28W3	B	--	OE	O	400	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	13	03-17-037-28W3	UG	--	03-17-037-28W3	PL	--	OE	O	430	129.00	15.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143841	14	15-08-037-28W3	UG	--	03-17-037-28W3	PL	--	OE	O	900	219.10	5.60	5.00	0.00	4960	4960	0	n/app.	0	0	0
143842	13	04-17-037-28W3	UG	--	04-17-037-28W3	PL	--	OE	O	190	100.00	12.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143842	14	03-17-037-28W3	UG	--	03-17-037-28W3	PL	--	OE	O	430	100.00	12.00	5.00	0.00	4960	4960	0	n/app.	0	0	0
143843	1	07-18-037-28W3	PL	--	01-18-037-28W3	WE	--	ML	O	610	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	2	01-18-037-28W3	PL	--	03-17-037-28W3	WE	--	ML	O	890	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	3	03-17-037-28W3	PL	--	02-17-037-28W3	WE	--	ML	O	620	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	4	04-17-037-28W3	PL	--	05-17-037-28W3	WE	--	ML	O	320	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0



Strathcona Resources Ltd.
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Revision Date:
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Approved By:
Senior HSE Advisor - Heavy Oil

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Cosine - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
143843	5	05-17-037-28W3	PL	--	12-17-037-28W3	WE	--	ML	O	500	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	6	07-18-037-28W3	B	--	06-18-037-28W3	WE	--	ML	O	320	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	7	07-18-037-28W3	PL	--	02-18-037-28W3	WE	--	ML	O	230	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	8	07-18-037-28W3	PL	--	10-18-037-28W3	WE	--	ML	O	600	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	9	07-18-037-28W3	B	--	15-18-037-28W3	WE	--	ML	O	890	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	10	15-18-037-28W3	PL	--	07-19-037-28W3	WE	--	SW	O	690	100.00	12.00	0.00	0.00	9928	9928	0	n/app.	0	0	0
143843	11	15-18-037-28W3	PL	--	07-19-037-28W3	WE	--	SW	O	690	100.00	12.00	0.00	0.00	9928	9928	0	n/app.	0	0	0
143843	12	15-18-037-28W3	PL	--	07-19-037-28W3	WE	--	SW	O	690	100.00	12.00	0.00	0.00	9928	9928	0	n/app.	0	0	0
143843	13	15-18-037-28W3	PL	--	07-19-037-28W3	WE	--	ML	O	690	100.00	12.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	15	04-17-037-28W3	PL	--	04-17-037-28W3	UG	--	ML	O	190	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	16	07-18-037-28W3	B	--	08-18-037-28W3	UG	--	ML	O	400	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	17	03-17-037-28W3	PL	--	03-17-037-28W3	UG	--	ML	O	430	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
143843	18	03-17-037-28W3	PL	--	15-08-037-28W3	UG	--	ML	O	900	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
143844	1	07-18-037-28W3	PL	--	01-18-037-28W3	WE	--	FG	O	610	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	2	01-18-037-28W3	PL	--	03-17-037-28W3	WE	--	FG	O	890	88.90	10.50	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	3	03-17-037-28W3	PL	--	02-17-037-28W3	WE	--	FG	O	620	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	4	04-17-037-28W3	PL	--	05-17-037-28W3	WE	--	FG	O	320	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	5	05-17-037-28W3	PL	--	12-17-037-28W3	WE	--	FG	O	500	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	6	07-18-037-28W3	PL	--	06-18-037-28W3	WE	--	FG	O	320	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	7	07-18-037-28W3	PL	--	02-18-037-28W3	WE	--	FG	O	230	88.90	10.50	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	8	07-18-037-28W3	PL	--	10-18-037-28W3	PL	--	FG	O	60	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	9	07-18-037-28W3	PL	--	15-18-037-28W3	WE	--	FG	O	890	88.90	10.50	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	10	15-18-037-28W3	PL	--	07-19-037-28W3	WE	--	FG	O	690	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	14	04-17-037-28W3	PL	--	04-17-037-28W3	UG	--	FG	O	190	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	15	07-18-037-28W3	B	--	08-18-037-28W3	UG	--	FG	O	400	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
143844	16	03-17-037-28W3	PL	--	03-17-037-28W3	UG	--	FG	O	430	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0



Strathcona Resources Ltd.
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Senior HSE Advisor - Heavy Oil

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Cosine - Pipelines

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Sweet Pipelines																					
143844	17	03-17-037-28W3	PL	--	15-08-037-28W3	UG	--	FG	O	900	88.90	10.50	0.00	0.00	1725	1725	0	n/app.	0	0	0
143845	14	04-17-037-28W3	UG	--	04-17-037-28W3	PL	--	NG	O	190	60.30	6.70	5.00	0.00	1725	1725	0	n/app.	0	0	0
143845	15	08-18-037-28W3	UG	--	07-18-037-28W3	B	--	NG	O	400	60.30	6.70	5.00	0.00	1725	1725	0	n/app.	0	0	0
143845	16	03-17-037-28W3	UG	--	03-17-037-28W3	PL	--	NG	O	430	60.30	6.70	5.00	0.00	1725	1725	0	n/app.	0	0	0
143845	17	15-08-037-28W3	UG	--	03-17-037-28W3	PL	--	NG	O	900	88.90	10.50	5.00	0.00	1725	1725	0	n/app.	0	0	0
147036	1	07-18-037-28W3	B	--	11-17-037-28W3	WE	--	FG	O	1210	60.30	7.10	0.00	0.00	1725	1725	0	n/app.	0	0	0
147037	1	11-17-037-28W3	WE	--	07-18-037-28W3	B	--	FW	O	1210	124.00	12.50	0.00	0.00	1896	1896	0	n/app.	0	0	0
147039	1	07-18-037-28W3	B	--	01-06-037-28W3	HD	--	ML	O	3850	109.20	4.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
147040	1	01-06-037-28W3	HD	--	07-18-037-28W3	B	--	FW	O	3850	168.30	4.80	0.00	0.00	8274	8274	0	n/app.	0	0	0
147043	1	07-18-037-28W3	B	--	01-06-037-28W3	HD	--	SW	O	3850	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
152234	1	03-17-037-28W3	HD	--	15-08-037-28W3	HD	--	ML	O	800	100.00	11.50	0.00	0.00	9920	9920	0	n/app.	0	0	0
155307	4	02-35-037-28W3	WE	--	03-36-037-28W3	PL	--	NG	O	1230	114.30	10.00	0.20	0.00	1035	1035	0	n/app.	0	0	0
239223	1	07-18-037-28W3	PL	--	06-18-037-28W3	PL	--	FG	O	320	60.30	0.00	0.00	0.00	1736	1736	0	n/app.	0	0	0
852610	1	15-08-037-28W3		--	08-08-037-28W3		--	ML	UC	1040	168.30	4.80	0.00	0.00			0	n/app.	0	0	0
852611	1	15-08-037-28W3		--	08-08-037-28W3		--	FG	UC	1040	88.90	9.90	0.00	0.00			0	n/app.	0	0	0
854872	1	15-08-037-28W3		--	16-08-037-28W3		--	FG	UC	500	60.30	6.70	0.00	0.00			0	n/app.	0	0	0
854873	1	16-08-037-28W3		--	15-08-037-28W3		--	SW	UC	500	100.00	11.50	0.00	0.00			0	n/app.	0	0	0
854873	2	15-08-037-28W3		--	08-08-037-28W3		--	SW	UC	1040	129.00	15.00	0.00	0.00			0	n/app.	0	0	0
854873	3	15-08-037-28W3		--	16-08-037-28W3		--	SW	UC	500	100.00	11.50	0.00	0.00			0	n/app.	0	0	0
Discontinued/Suspended Pipelines																					
121823	4	10-19-037-27W3	PL	--	13-03-037-28W3	PL	--	NG	D	7390	168.30	0.00	0.00	0.00	0	0	-	-	-	-	-
121823	8	01-06-038-26W3	BE	--	10-28-037-27W3	BE	--	NG	D	7740	88.90	0.00	0.00	na	0	na	-	-	-	-	-
124485	1	07-08-037-28W3	WE	--	16-05-037-28W3	WE	--	NG	D	950	0.00	0.00	0.00	0.00	0	0	-	-	-	-	-
143842	1	01-18-037-28W3	WE	--	07-18-037-28W3	B	--	OE	D	610	100.00	12.00	5.00	na	9928	na	-	-	-	-	-
147038	1	01-06-037-28W3		--	07-18-037-28W3		--	OE	D	3850	168.30	4.80	0.00	na	4960	na	-	-	-	-	-
147041	1	07-18-037-28W3		--	01-06-037-28W3		--	FG	D	3850	60.30	6.70	0.00	na	1378	na	-	-	-	-	-



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Cosine - Pipelines

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Discontinued/Suspended Pipelines																					
147042	1	01-06-037-28W3		--	07-18-037-28W3		--	NG	D	3850	88.90	9.90	0.00	na	1736	na	-	-	-	-	-
155290	15	16-31-036-28W3	BE	--	01-06-037-28W3	WE	--	OE	D	390	130.00	16.00	5.00	na	8274	na	-	-	-	-	-
155305	5	08-12-037-29W3	BE	--	12-07-037-28W3	BE	--	NG	S	440	0.00	0.00	0.00	na	0	na	-	-	-	-	-

Pipeline Legend:

Facility: B = Battery BE = Blind End CS = Compressor Station DH = Dehydrator GP = Gas Plant GS = Gathering System MS = Meter Station PL = Pipeline S = Satellite WE = Well

Substance: CO = Crude Oil FG = Fuel Gas FW = Fresh Water NG = Natural Gas OE = Oil Well Effluent OM = Oil Emulsion SC = Sour Crude SE = Sour Effluent SG = Sour Gas SW = Salt Water

Status: A = Abandoned D = Discontinued I = Inactive O = Operating Q = Active R = Removed S = Suspended TBC = To Be Constructed

Valve: CV = Check Valve ESD = Emergency Shut Down Valve

Other: L = Length OD = Outside Diameter WT = Wall Thickness MOP = Maximum Operating Pressure GLR = Gas to Liquid Ratio



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Cosine - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Operating											
SKSA0001064	6299	01-06-037-28W3			CALTEX RESOURC 01-06-037-28W3	Satellite	Operating	0	0	0	
SKSA0010991	7333	16-06-037-28W3			CALTEX RESOURC 16-06-037-28W3	Satellite	Operating	0	0	0	
SKBTS2H6447	11F367	02-09-037-28W3			CALTEX RESOURC 02-09-037-28W3	Battery	Operating	0	0	0	
SKWS0025801		11-17-037-28W3			CALTEX RESOURC 11-17-037-28W3	Water Source	Operating	0	0	0	
SKBT0028055	87801	11-17-037-28W3			CALTEX RESOURC 11-17-037-28W3	Battery	Operating	0	0	0	
SKIF0025869	8728	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Injection Plant	Operating	0	0	0	
SKBTB2H0062	4247	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Battery	Operating	0	0	0	
SKWT0019594	8360	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Water Source	Operating	0	0	0	
SKWT0030656	8360	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Water Source	Operating	0	0	0	
Suspended											
SKBTS2H5719	03H140	14-04-037-28W3			CALTEX RESOURC 14-04-037-28W3	Battery	Suspended	-	-	-	
SKBT0016154	4245	16-04-037-28W3			CALTEX RESOURC 16-04-037-28W3	Battery	Suspended	-	-	-	
SKBTH203604	4245	16-04-037-28W3			CALTEX RESOURC 16-04-037-28W3	Battery	Suspended	-	-	-	
SKBTH203669	7660	16-05-037-28W3			CALTEX RESOURC 16-05-037-28W3	Battery	Suspended	-	-	-	
SKIFM203705	7331	01-06-037-28W3			CALTEX RESOURC 01-06-037-28W3	Injection Plant	Suspended	-	-	-	
SKBTS2H0146	79F132	08-06-037-28W3			CALTEX RESOURC 08-06-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H5963	03I023	16-06-037-28W3			CALTEX RESOURC 16-06-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H0533	83L008	04-07-037-28W3			CALTEX RESOURC 04-07-037-28W3	Battery	Suspended	-	-	-	
SKBTG200053	73H045	07-07-037-28W3			CALTEX RESOURC 07-07-037-28W3	Battery	Suspended	-	-	-	
SKGSX200002		07-07-037-28W3			CALTEX RESOURC 07-07-037-28W3	Gas Gathering System	Suspended	-	-	-	
SKBTS2H0434	82J006	10-07-037-28W3			CALTEX RESOURC 10-07-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H0096	78I089	01-08-037-28W3			CALTEX RESOURC 01-08-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H6143	08G042	07-08-037-28W3			CALTEX RESOURC 07-08-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H6144	08G043	07-08-037-28W3			CALTEX RESOURC 07-08-037-28W3	Battery	Suspended	-	-	-	



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Cosine - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
SKBTS2H5724	03H104	10-08-037-28W3			CALTEX RESOURC 10-08-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H6142	08G031	03-17-037-28W3			CALTEX RESOURC 03-17-037-28W3	Battery	Suspended	-	-	-	
SKIFD200185	4246	04-17-037-28W3			CALTEX RESOURC 04-17-037-28W3	Injection Plant	Suspended	-	-	-	
SKBTS2H0568	84H254	07-17-037-28W3			CALTEX RESOURC 07-17-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H0535	83K231	11-17-037-28W3			CALTEX RESOURC 11-17-037-28W3	Battery	Suspended	-	-	-	
SKBT0017111	83G018	03-18-037-28W3			CALTEX RESOURC 03-18-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H6145	08H111	06-18-037-28W3			CALTEX RESOURC 06-18-037-28W3	Battery	Suspended	-	-	-	
SKBT0026732	72K072	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Battery	Suspended	-	-	-	
SKWT0019193	8360	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Water Source	Suspended	-	-	-	
SKIF0018872	8360	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Injection Plant	Suspended	-	-	-	
SKIF0019207	8360	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Injection Plant	Suspended	-	-	-	
SKWT0026537	8360	07-18-037-28W3			CALTEX RESOURC 07-18-037-28W3	Water Source	Suspended	-	-	-	
SKBTG203658	82E017	15-18-037-28W3			CALTEX RESOURC 15-18-037-28W3	Battery	Suspended	-	-	-	
SKBT0018121	82J009	02-19-037-28W3			CALTEX RESOURC 02-19-037-28W3	Battery	Suspended	-	-	-	
SKBTS2H0435	78H079	09-13-037-29W3			CALTEX RESOURC 09-13-037-29W3	Battery	Suspended	-	-	-	



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
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Approved By:
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East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sour Wells												
0419103	100/08-12-037-01W4/2	08-12-037-01W4	52.162653	-110.008565	CALTEX_RES PROVOST 8-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0415705	102/08-12-037-01W4/2	09-12-037-01W4	52.166282	-110.00664	CALTEX_RES PROVOST 8-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0415633	100/09-12-037-01W4/0	09-12-037-01W4	52.167069	-110.008996	CALTEX_RES PROVOST 9-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0415632	103/16-12-037-01W4/0	09-12-037-01W4	52.167069	-110.00885	CALTEX_RES PROVOST 16-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434171	103/13-12-037-01W4/0	14-12-037-01W4	52.171571	-110.021932	CALTEX_RES PROVOST 13-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0415628	103/10-12-037-01W4/0	15-12-037-01W4	52.169725	-110.012708	CALTEX_RES PROVOST 10-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0091070	100/15-12-037-01W4/2	15-12-037-01W4	52.171026	-110.01484	CALTEX_RES PROVOST 15-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0415629	102/15-12-037-01W4/0	15-12-037-01W4	52.169724	-110.012562	CALTEX_RES PROVOST 15-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0415630	102/16-12-037-01W4/0	15-12-037-01W4	52.169724	-110.012416	CALTEX_RES PROVOST 16-12-37-1	0.10	0.000001	PMP	OIL	10	0	0
0433995	102/02-13-037-01W4/0	02-13-037-01W4	52.172599	-110.013553	CALTEX_RES PROVOST 2-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0274219	100/03-13-037-01W4/2	03-13-037-01W4	52.173728	-110.019135	CALTEX_RES PROVOST 3-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434083	102/03-13-037-01W4/0	03-13-037-01W4	52.173512	-110.018033	CALTEX_RES PROVOST 3-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0435138	105/03-13-037-01W4/0	03-13-037-01W4	52.172769	-110.020514	CALTEX_RES PROVOST 3-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0054145	100/04-13-037-01W4/0	04-13-037-01W4	52.174091	-110.025533	CALTEX_RES PROVOST 4-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434350	103/04-13-037-01W4/0	04-13-037-01W4	52.175309	-110.024238	CALTEX_RES PROVOST 4-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434433	104/04-13-037-01W4/0	04-13-037-01W4	52.172677	-110.027298	CALTEX_RES PROVOST 4-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434352	102/05-13-037-01W4/0	04-13-037-01W4	52.175309	-110.023946	CALTEX_RES PROVOST 5-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0274220	100/05-13-037-01W4/2	05-13-037-01W4	52.177617	-110.025542	CALTEX_RES PROVOST 5-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0485985	103/09-13-037-01W4/0	11-13-037-01W4	52.181689	-110.022527	CALTEX_RES 103 MHZ PROVOST 9-13-37-1	0.10	0.000009	PMP	OIL	10	0	0
0485976	105/09-13-037-01W4/0	11-13-037-01W4	52.181545	-110.022527	CALTEX_RES 105 MHZ PROVOST 9-13-37-1	0.10	0.000011	PMP	OIL	10	0	0
0275021	102/13-13-037-01W4/2	13-13-037-01W4	52.185582	-110.024443	CALTEX_RES PROVOST 13-13-37-1	0.10	0.000001	PMP	OIL	10	0	0



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East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sour Wells												
0485884	100/09-13-037-01W4/0	14-13-037-01W4	52.184956	-110.019779	CALTEX_RES 100 HZ PROVOST 9-13-37-1	0.10	0.000013	PMP	OIL	10	0	0
0485975	104/16-13-037-01W4/0	14-13-037-01W4	52.1851	-110.019779	CALTEX_RES 104 HZ PROVOST 16-13-37-1	0.10	0.000001	PMP	OIL	10	0	0
0099540	100/01-14-037-01W4/2	01-14-037-01W4	52.174017	-110.031775	CALTEX_RES PROVOST 1-14-37-1	0.10	0.000001	FLW	OIL	10	0	0
0408686	100/11-15-037-01W4/0	05-14-037-01W4	52.178888	-110.046503	CALTEX_RES PROVOST 11-15-37-1	0.10	0.000001	PMP	OIL	10	0	0
0298371	102/09-14-037-01W4/0	09-14-037-01W4	52.180004	-110.032432	CALTEX_RES PROVOST 9-14-37-1	0.10	0.000001	PMP	OIL	10	0	0
0290828	102/10-14-037-01W4/0	10-14-037-01W4	52.180611	-110.037237	CALTEX_RES PROVOST 10-14-37-1	0.10	0.000001	PMP	OIL	10	0	0
0356481	102/14-15-037-01W4/0	12-14-037-01W4	52.182161	-110.049864	CALTEX_RES PROVOST 14-15-37-1	0.10	0.000001	PMP	OIL	10	0	0
0115565	100/14-15-037-01W4/0	14-15-037-01W4	52.18524	-110.070029	CALTEX_RES PROVOST 14-15-37-1	0.10	0.000001	PMP	OIL	10	0	0
0365780	103/01-21-037-01W4/0	09-16-037-01W4	52.180517	-110.077783	CALTEX_RES PROVOST 1-21-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434435	100/15-16-037-01W4/0	15-16-037-01W4	52.185101	-110.083644	CALTEX_RES PROVOST 15-16-37-1	0.10	0.000001	PMP	OIL	10	0	0
0490376	105/07-21-037-01W4/0	05-22-037-01W4	52.192176	-110.07251	CALTEX_RES 105 HZ PROVOST 7-21-37-1	0.10	0.000001	PMP	OIL	10	0	0
0479857	100/05-22-037-01W4/0	07-22-037-01W4	52.193291	-110.060507	CALTEX_RES 100 HZ PROVOST 5-22-37-1	0.10	0.000003	PMP	OIL	10	0	0
0489845	102/13-22-037-01W4/0	09-22-037-01W4	52.19627	-110.055342	CALTEX_RES 102 MH PROVOST 13-22-37-1	0.10	0.000002	PMP	OIL	10	0	0
0479827	102/11-23-037-01W4/0	09-22-037-01W4	52.195677	-110.055342	CALTEX_RES 102 HZ PROVOST 11-23-37-1	0.10	0.000007	PMP	OIL	10	0	0
0479991	104/11-23-037-01W4/0	09-22-037-01W4	52.195947	-110.055343	CALTEX_RES 104 HZ PROVOST 11-23-37-1	0.10	0.000007	PMP	OIL	10	0	0
0489838	100/14-23-037-01W4/0	09-22-037-01W4	52.196342	-110.055342	CALTEX_RES MHZ PROVOST 14-23-37-1	0.10	0.000004	PMP	OIL	10	0	0
0479854	100/12-22-037-01W4/0	10-22-037-01W4	52.194367	-110.060156	CALTEX_RES 100 MH PROVOST 12-22-37-1	0.10	0.000007	PMP	OIL	10	0	0
0480665	103/12-22-037-01W4/0	10-22-037-01W4	52.194637	-110.060156	CALTEX_RES 103 MH PROVOST 12-22-37-1	0.10	0.000005	PMP	OIL	10	0	0
0490142	103/10-21-037-01W4/0	12-22-037-01W4	52.195315	-110.072216	CALTEX_RES 103 HZ PROVOST 10-21-37-1	0.10	0.000001	PMP	OIL	10	0	0
0490377	100/11-21-037-01W4/0	12-22-037-01W4	52.195459	-110.072216	CALTEX_RES 100 HZ PROVOST 11-21-37-1	0.10	0.000001	PMP	OIL	10	0	0
0434077	104/08-23-037-01W4/0	01-23-037-01W4	52.188749	-110.032539	CALTEX_RES PROVOST 8-23-37-1	0.10	0.000012	PMP	OIL	10	0	0



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East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sour Wells												
0485004	103/03-24-037-01W4/0	01-23-037-01W4	52.188712	-110.033709	CALTEX_RES 103 MHZ PROVOST 3-24-37-1	0.10	0.000007	PMP	OIL	10	0	0
0485082	105/03-24-037-01W4/0	01-23-037-01W4	52.188856	-110.033707	CALTEX_RES 105 MHZ PROVOST 3-24-37-1	0.10	0.000006	PMP	OIL	10	0	0
0482628	100/12-13-037-01W4/0	02-23-037-01W4	52.189143	-110.038165	CALTEX_RES 100 MH PROVOST 12-13-37-1	0.10	0.000006	PMP	OIL	10	0	0
0482429	104/13-13-037-01W4/0	02-23-037-01W4	52.18927	-110.037957	CALTEX_RES 104 MH PROVOST 13-13-37-1	0.10	0.000024	PMP	OIL	10	0	0
0091068	100/02-23-037-01W4/0	02-23-037-01W4	52.189195	-110.038621	CALTEX_RES PROVOST 2-23-37-1	0.10	0.000002	PMP	OIL	10	0	0
0433977	102/02-23-037-01W4/0	02-23-037-01W4	52.189888	-110.035945	CALTEX_RES PROVOST 2-23-37-1	0.10	0.000002	PMP	OIL	10	0	0
0489844	102/04-23-037-01W4/0	02-23-037-01W4	52.188788	-110.038528	CALTEX_RES HZ PROVOST 4-23-37-1	0.10	0.000002	PMP	OIL	10	0	0
0466109	102/07-22-037-01W4/0	05-23-037-01W4	52.191727	-110.049973	CALTEX_RES PROVOST 7-22-37-1	0.10	0.000007	PMP	OIL	10	0	0
0482471	102/05-23-037-01W4/0	07-23-037-01W4	52.192276	-110.037916	CALTEX_RES 102 MHZ PROVOST 5-23-37-1	0.10	0.000007	PMP	OIL	10	0	0
0482553	104/05-23-037-01W4/0	07-23-037-01W4	52.192097	-110.037916	CALTEX_RES 104 MHZ PROVOST 5-23-37-1	0.10	0.000006	PMP	OIL	10	0	0
0087023	100/07-23-037-01W4/2	07-23-037-01W4	52.192081	-110.037704	CALTEX_RES PROVOST 7-23-37-1	0.10	0.000006	SUS	OIL	10	0	0
0484991	105/06-24-037-01W4/0	08-23-037-01W4	52.191446	-110.033793	CALTEX_RES 105 MHZ PROVOST 6-24-37-1	0.10	0.00001	PMP	OIL	10	0	0
0481732	103/06-24-037-01W4/0	09-23-037-01W4	52.195437	-110.031522	CALTEX_RES 103 MHZ PROVOST 6-24-37-1	0.10	0.000014	PMP	OIL	10	0	0
0481920	104/10-24-037-01W4/0	09-23-037-01W4	52.195617	-110.031521	CALTEX_RES 104 MH PROVOST 10-24-37-1	0.10	0.000013	PMP	OIL	10	0	0
0482094	106/10-24-037-01W4/0	09-23-037-01W4	52.195796	-110.03152	CALTEX_RES 106 MH PROVOST 10-24-37-1	0.10	0.00001	PMP	OIL	10	0	0
0466224	103/10-22-037-01W4/0	12-23-037-01W4	52.194764	-110.050006	CALTEX_RES PROVOST 10-22-37-1	0.10	0.000005	PMP	OIL	10	0	0
0466280	104/10-22-037-01W4/0	12-23-037-01W4	52.195017	-110.050006	CALTEX_RES PROVOST 10-22-37-1	0.10	0.000004	PMP	OIL	10	0	0
0434293	102/02-24-037-01W4/0	02-24-037-01W4	52.187107	-110.015509	CALTEX_RES PROVOST 2-24-37-1	0.10	0.000001	SUS	OIL	10	0	0
0434293	102/02-24-037-01W4/2	02-24-037-01W4	52.187107	-110.015509	CALTEX_RES PROVOST 2-24-37-1	0.10	0.000002	PMP	OIL	10	0	0
0485731	102/11-13-037-01W4/0	03-24-037-01W4	52.189342	-110.019158	CALTEX_RES 102 MH PROVOST 11-13-37-1	0.10	0.000007	PMP	OIL	10	0	0
0485743	104/11-13-037-01W4/0	03-24-037-01W4	52.189342	-110.019391	CALTEX_RES 104 MH PROVOST 11-13-37-1	0.10	0.000007	PMP	OIL	10	0	0

East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sour Wells												
0485741	103/12-13-037-01W4/0	03-24-037-01W4	52.189342	-110.019873	CALTEX_RES 103 MH PROVOST 12-13-37-1	0.10	0.000014	PMP	OIL	10	0	0
0482201	102/16-13-037-01W4/0	03-24-037-01W4	52.188574	-110.019766	CALTEX_RES 102 MH PROVOST 16-13-37-1	0.10	0.000007	PMP	OIL	10	0	0
0479772	102/01-24-037-01W4/0	03-24-037-01W4	52.188835	-110.019764	CALTEX_RES 102 HZ PROVOST 1-24-37-1	0.10	0.000008	PMP	OIL	10	0	0
0479782	102/08-24-037-01W4/0	03-24-037-01W4	52.189105	-110.019764	CALTEX_RES 102 MHZ PROVOST 8-24-37-1	0.10	0.000005	PMP	OIL	10	0	0
0434007	102/06-24-037-01W4/2	06-24-037-01W4	52.191417	-110.017427	CALTEX_RES PROVOST 6-24-37-1	0.10	0.000001	PMP	OIL	10	0	0
0484563	104/08-24-037-01W4/0	06-24-037-01W4	52.192544	-110.020556	CALTEX_RES 104 MHZ PROVOST 8-24-37-1	0.10	0.000006	PMP	OIL	10	0	0
0484488	100/09-24-037-01W4/0	06-24-037-01W4	52.192688	-110.020555	CALTEX_RES 100 PROVOST 9-24-37-1	0.10	0.000011	PMP	OIL	10	0	0
0484699	103/07-23-037-01W4/0	12-24-037-01W4	52.195145	-110.024866	CALTEX_RES 103 MHZ PROVOST 7-23-37-1	0.10	0.000012	PMP	OIL	10	0	0
0484668	104/10-23-037-01W4/0	12-24-037-01W4	52.195289	-110.024866	CALTEX_RES 104 MH PROVOST 10-23-37-1	0.10	0.000006	PMP	OIL	10	0	0
0484708	106/10-23-037-01W4/0	12-24-037-01W4	52.195432	-110.024865	CALTEX_RES 106 PROVOST 10-23-37-1	0.10	0.000009	PMP	OIL	10	0	0
Injection Wells												
0415707	103/08-12-037-01W4/0	09-12-037-01W4	52.166282	-110.006932	CALTEX_RES PROVOST 8-12-37-1	0.00	0	INJ	WTR	0	0	0
0415706	102/09-12-037-01W4/0	09-12-037-01W4	52.166282	-110.006786	CALTEX_RES PROVOST 9-12-37-1	0.00	0	INJ	WTR	0	0	0
0044007	100/10-12-037-01W4/0	10-12-037-01W4	52.166768	-110.013287	CALTEX_RES PROVOST 10-12-37-1	0.00	0	INJ	WTR	0	0	0
0415626	102/10-12-037-01W4/0	10-12-037-01W4	52.168258	-110.010991	CALTEX_RES PROVOST 10-12-37-1	0.00	0	INJ	WTR	0	0	0
0434068	102/13-12-037-01W4/0	14-12-037-01W4	52.171572	-110.022225	CALTEX_RES PROVOST 13-12-37-1	0.00	0	INJ	WTR	0	0	0
0434076	102/04-13-037-01W4/0	14-12-037-01W4	52.171571	-110.022079	CALTEX_RES PROVOST 4-13-37-1	0.00	0	INJ	WTR	0	0	0
0289498	100/16-12-037-01W4/0	16-12-037-01W4	52.169763	-110.008686	CALTEX_RES PROVOST 16-12-37-1	0.00	0	INJ	WTR	0	0	0
0434086	104/14-12-037-01W4/0	03-13-037-01W4	52.173512	-110.017887	CALTEX_RES PROVOST 14-12-37-1	0.00	0	INJ	WTR	0	0	0
0434085	103/02-13-037-01W4/0	03-13-037-01W4	52.173512	-110.017741	CALTEX_RES PROVOST 2-13-37-1	0.00	0	INJ	WTR	0	0	0
0434351	103/03-13-037-01W4/0	04-13-037-01W4	52.175309	-110.024092	CALTEX_RES PROVOST 3-13-37-1	0.00	0	INJ	WTR	0	0	0

East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Injection Wells												
0434353	104/03-13-037-01W4/0	04-13-037-01W4	52.175309	-110.0238	CALTEX_RES PROVOST 3-13-37-1	0.00	0	INJ	WTR	0	0	0
0485936	102/09-13-037-01W4/0	11-13-037-01W4	52.181761	-110.022527	CALTEX_RES 102 INJ PROVOST 9-13-37-1	0.00	0	INJ	WTR	0	0	0
0486010	104/09-13-037-01W4/0	11-13-037-01W4	52.181617	-110.022527	CALTEX_RES 104 INJ PROVOST 9-13-37-1	0.00	0	INJ	GAS	0	0	0
0485886	103/16-13-037-01W4/0	14-13-037-01W4	52.185172	-110.019779	CALTEX_RES 103 IN PROVOST 16-13-37-1	0.00	0	INJ	WTR	0	0	0
0485992	105/16-13-037-01W4/0	14-13-037-01W4	52.185028	-110.019779	CALTEX_RES 105 IN PROVOST 16-13-37-1	0.00	0	INJ	WTR	0	0	0
0055223	100/08-14-037-01W4/0	08-14-037-01W4	52.177107	-110.032174	CALTEX_RES PROVOST 8-14-37-1	0.00	0	INJ	WTR	0	0	0
0181913	100/11-14-037-01W4/0	11-14-037-01W4	52.179806	-110.0439	CALTEX_RES PROVOST 11-14-37-1	0.00	0	SUS	WTR	0	0	0
0356882	103/13-15-037-01W4/0	12-14-037-01W4	52.180448	-110.046565	CALTEX_RES PROVOST 13-15-37-1	0.00	0	INJ	WTR	0	0	0
0356881	103/14-15-037-01W4/0	12-14-037-01W4	52.180538	-110.046564	CALTEX_RES PROVOST 14-15-37-1	0.00	0	INJ	WTR	0	0	0
0365781	102/01-21-037-01W4/0	09-16-037-01W4	52.180517	-110.077929	CALTEX_RES PROVOST 1-21-37-1	0.00	0	INJ	WTR	0	0	0
0365779	100/08-21-037-01W4/0	09-16-037-01W4	52.180517	-110.077637	CALTEX_RES PROVOST 8-21-37-1	0.00	0	INJ	WTR	0	0	0
0499890	106/04-20-037-01W4/0	04-21-037-01W4	52.187392	-110.096335	CALTEX_RES 106 INJ PROVOST 4-20-37-1	0.00	0	INJ	WTR	0	0	0
0499939	108/04-20-037-01W4/0	04-21-037-01W4	52.187535	-110.096335	CALTEX_RES 108 INJ PROVOST 4-20-37-1	0.00	0	INJ	WTR	0	0	0
0499961	110/04-20-037-01W4/0	05-21-037-01W4	52.190942	-110.097213	CALTEX_RES 110 INJ PROVOST 4-20-37-1	0.00	0	INJ	WTR	0	0	0
0499999	107/05-20-037-01W4/0	05-21-037-01W4	52.191014	-110.097213	CALTEX_RES 107 INJ PROVOST 5-20-37-1	0.00	0	INJ	WTR	0	0	0
0500005	109/05-20-037-01W4/0	05-21-037-01W4	52.191157	-110.097213	CALTEX_RES 109 INJ PROVOST 5-20-37-1	0.00	0	INJ	WTR	0	0	0
0494613	102/05-21-037-01W4/0	07-21-037-01W4	52.192931	-110.083041	CALTEX_RES 102 INJ PROVOST 5-21-37-1	0.00	0	INJ	PLOY	0	0	0
0494682	104/05-21-037-01W4/0	07-21-037-01W4	52.193075	-110.083041	CALTEX_RES 104 INJ PROVOST 5-21-37-1	0.00	0	INJ	PLOY	0	0	0
0494743	106/05-21-037-01W4/0	07-21-037-01W4	52.193219	-110.083041	CALTEX_RES 106 INJ PROVOST 5-21-37-1	0.00	0	INJ	PLOY	0	0	0
0494810	103/12-21-037-01W4/0	07-21-037-01W4	52.193362	-110.083041	CALTEX_RES 103 IN PROVOST 12-21-37-1	0.00	0	INJ	PLOY	0	0	0
0489841	102/07-21-037-01W4/0	05-22-037-01W4	52.19196	-110.07251	CALTEX_RES 102 INJ PROVOST 7-21-37-1	0.00	0	INJ	WTR	0	0	0

East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Injection Wells												
0490215	104/07-21-037-01W4/0	05-22-037-01W4	52.192104	-110.07251	CALTEX_RES 104 INJ PROVOST 7-21-37-1	0.00	0	INJ	WTR	0	0	0
0479992	102/05-22-037-01W4/0	07-22-037-01W4	52.193426	-110.060507	CALTEX_RES 102 HZ PROVOST 5-22-37-1	0.00	0	INJ	WTR	0	0	0
0481185	103/05-22-037-01W4/0	07-22-037-01W4	52.193156	-110.060507	CALTEX_RES 103 HZ PROVOST 5-22-37-1	0.00	0	INJ	WTR	0	0	0
0489836	100/13-22-037-01W4/0	09-22-037-01W4	52.196126	-110.055342	CALTEX_RES INJ HZ PROVOST 13-22-37-1	0.00	0	INJ	WTR	0	0	0
0480742	102/06-23-037-01W4/0	09-22-037-01W4	52.195542	-110.055342	CALTEX_RES 102 HZ PROVOST 6-23-37-1	0.00	0	INJ	WTR	0	0	0
0479856	103/11-23-037-01W4/0	09-22-037-01W4	52.195812	-110.055342	CALTEX_RES 103 HZ PROVOST 11-23-37-1	0.00	0	INJ	WTR	0	0	0
0489837	105/11-23-037-01W4/0	09-22-037-01W4	52.196198	-110.055342	CALTEX_RES 105 IN PROVOST 11-23-37-1	0.00	0	INJ	WTR	0	0	0
0479993	102/12-22-037-01W4/0	10-22-037-01W4	52.194502	-110.060156	CALTEX_RES 102 HZ PROVOST 12-22-37-1	0.00	0	INJ	WTR	0	0	0
0489835	102/10-21-037-01W4/0	12-22-037-01W4	52.195243	-110.072216	CALTEX_RES 102 IN PROVOST 10-21-37-1	0.00	0	INJ	WTR	0	0	0
0490241	104/10-21-037-01W4/0	12-22-037-01W4	52.195387	-110.072216	CALTEX_RES 104 IN PROVOST 10-21-37-1	0.00	0	INJ	WTR	0	0	0
0490385	106/10-21-037-01W4/0	12-22-037-01W4	52.195531	-110.072216	CALTEX_RES 106 IN PROVOST 10-21-37-1	0.00	0	INJ	WTR	0	0	0
0484917	102/03-24-037-01W4/0	01-23-037-01W4	52.188641	-110.033709	CALTEX_RES 102 INJ PROVOST 3-24-37-1	0.00	0	INJ	WTR	0	0	0
0485014	104/03-24-037-01W4/0	01-23-037-01W4	52.188784	-110.033707	CALTEX_RES 104 INJ PROVOST 3-24-37-1	0.00	0	INJ	WTR	0	0	0
0482712	102/12-13-037-01W4/0	02-23-037-01W4	52.189079	-110.038269	CALTEX_RES 102 IN PROVOST 12-13-37-1	0.00	0	INJ	WTR	0	0	0
0482524	105/13-13-037-01W4/0	02-23-037-01W4	52.189207	-110.038061	CALTEX_RES 105 IN PROVOST 13-13-37-1	0.00	0	INJ	WTR	0	0	0
0490143	103/04-23-037-01W4/0	02-23-037-01W4	52.18886	-110.038528	CALTEX_RES 103 INJ PROVOST 4-23-37-1	0.00	0	INJ	WTR	0	0	0
0466098	100/07-22-037-01W4/0	05-23-037-01W4	52.191592	-110.049973	CALTEX_RES PROVOST 7-22-37-1	0.00	0	INJ	WTR	0	0	0
0466148	103/07-22-037-01W4/0	05-23-037-01W4	52.191862	-110.049973	CALTEX_RES PROVOST 7-22-37-1	0.00	0	INJ	WTR	0	0	0
0482530	103/05-23-037-01W4/0	07-23-037-01W4	52.192187	-110.037916	CALTEX_RES 103 INJ PROVOST 5-23-37-1	0.00	0	INJ	WTR	0	0	0
0063223	100/08-23-037-01W4/0	08-23-037-01W4	52.191964	-110.032364	CALTEX_RES PROVOST 8-23-37-1	0.00	0	INJ	WTR	0	0	0
0484918	104/06-24-037-01W4/0	08-23-037-01W4	52.191374	-110.033793	CALTEX_RES 104 INJ PROVOST 6-24-37-1	0.00	0	INJ	WTR	0	0	0

East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Injection Wells												
0485002	106/06-24-037-01W4/0	08-23-037-01W4	52.191517	-110.033793	CALTEX_RES 106 INJ PROVOST 6-24-37-1	0.00	0	INJ	WTR	0	0	0
0481786	103/10-24-037-01W4/0	09-23-037-01W4	52.195527	-110.031521	CALTEX_RES 103 IN PROVOST 10-24-37-1	0.00	0	INJ	WTR	0	0	0
0482039	105/10-24-037-01W4/0	09-23-037-01W4	52.195706	-110.03152	CALTEX_RES 105 IN PROVOST 10-24-37-1	0.00	0	INJ	WTR	0	0	0
0466223	102/10-22-037-01W4/0	12-23-037-01W4	52.194764	-110.050006	CALTEX_RES PROVOST 10-22-37-1	0.00	0	INJ	WTR	0	0	0
0485732	103/11-13-037-01W4/0	03-24-037-01W4	52.189342	-110.019274	CALTEX_RES 103 IN PROVOST 11-13-37-1	0.00	0	INJ	WTR	0	0	0
0485756	105/11-13-037-01W4/0	03-24-037-01W4	52.189342	-110.019756	CALTEX_RES 105 IN PROVOST 11-13-37-1	0.00	0	INJ	WTR	0	0	0
0479771	100/01-24-037-01W4/0	03-24-037-01W4	52.18897	-110.019764	CALTEX_RES 100 HZ PROVOST 1-24-37-1	0.00	0	INJ	WTR	0	0	0
0482210	104/01-24-037-01W4/0	03-24-037-01W4	52.188681	-110.019765	CALTEX_RES 104 INJ PROVOST 1-24-37-1	0.00	0	INJ	WTR	0	0	0
0484504	103/08-24-037-01W4/0	06-24-037-01W4	52.192472	-110.020556	CALTEX_RES 103 INJ PROVOST 8-24-37-1	0.00	0	INJ	WTR	0	0	0
0484578	105/08-24-037-01W4/0	06-24-037-01W4	52.192616	-110.020556	CALTEX_RES 105 INJ PROVOST 8-24-37-1	0.00	0	INJ	WTR	0	0	0
0484637	103/10-23-037-01W4/0	12-24-037-01W4	52.195217	-110.024866	CALTEX_RES 103 IN PROVOST 10-23-37-1	0.00	0	INJ	WTR	0	0	0
0484693	105/10-23-037-01W4/0	12-24-037-01W4	52.195361	-110.024865	CALTEX_RES 105 IN PROVOST 10-23-37-1	0.00	0	INJ	WTR	0	0	0
Sweet Wells												
0415673	1F1/09-12-037-01W4/0	09-12-037-01W4	52.168258	-110.01026	CALTEX_RES PROVOST 9-12-37-1	0.00	0	PMP	WTR	0	0	0
0415751	1F2/09-12-037-01W4/0	09-12-037-01W4	52.167429	-110.008518	CALTEX_RES PROVOST 9-12-37-1	0.00	0	OBS	N/A	0	0	0
0415631	104/10-12-037-01W4/0	09-12-037-01W4	52.16707	-110.009142	CALTEX_RES PROVOST 10-12-37-1	0.00	0	SUS	OIL	0	0	0
0485976	102/08-13-037-01W4/2	11-13-037-01W4	52.181545	-110.022527	CALTEX_RES 105 MHZ PROVOST 9-13-37-1	0.00	0	DRAIN	N/A	0	0	0
0485976	102/08-13-037-01W4/3	11-13-037-01W4	52.181545	-110.022527	CALTEX_RES 105 MHZ PROVOST 9-13-37-1	0.00	0	DRAIN	N/A	0	0	0
0485985	103/09-13-037-01W4/2	11-13-037-01W4	52.181689	-110.022527	CALTEX_RES 103 MHZ PROVOST 9-13-37-1	0.00	0	DRAIN	N/A	0	0	0
0298429	100/07-14-037-01W4/0	07-14-037-01W4	52.177599	-110.036868	CALTEX_RES PROVOST 7-14-37-1	0.00	0	PMP	OIL	0	0	0
0365138	100/13-16-037-01W4/0	13-16-037-01W4	52.18398	-110.098397	CALTEX_RES PROVOST 13-16-37-1	0.00	0	SUS	OIL	0	0	0

East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0365138	100/13-16-037-01W4/2	13-16-037-01W4	52.18398	-110.098397	CALTEX_RES PROVOST 13-16-37-1	0.00	0	D&C	N/A	0	0	0
0499931	107/04-20-037-01W4/0	04-21-037-01W4	52.18732	-110.096335	CALTEX_RES 107 HZ PROVOST 4-20-37-1	0.00	0	PMP	OIL	0	0	0
0499944	109/04-20-037-01W4/0	04-21-037-01W4	52.187463	-110.096335	CALTEX_RES 109 HZ PROVOST 4-20-37-1	0.00	0	PMP	OIL	0	0	0
0499891	106/05-20-037-01W4/0	05-21-037-01W4	52.191086	-110.097213	CALTEX_RES 106 HZ PROVOST 5-20-37-1	0.00	0	PMP	OIL	0	0	0
0500004	108/05-20-037-01W4/0	05-21-037-01W4	52.191229	-110.097213	CALTEX_RES 108 HZ PROVOST 5-20-37-1	0.00	0	PMP	OIL	0	0	0
0494620	103/05-21-037-01W4/0	07-21-037-01W4	52.193003	-110.083041	CALTEX_RES 103 HZ PROVOST 5-21-37-1	0.00	0	PMP	OIL	0	0	0
0494701	105/05-21-037-01W4/0	07-21-037-01W4	52.193147	-110.083041	CALTEX_RES 105 HZ PROVOST 5-21-37-1	0.00	0	PMP	OIL	0	0	0
0494783	102/12-21-037-01W4/0	07-21-037-01W4	52.19329	-110.083041	CALTEX_RES 102 HZ PROVOST 12-21-37-1	0.00	0	PMP	OIL	0	0	0
0088786	100/10-21-037-01W4/2	10-21-037-01W4	52.196917	-110.087719	CALTEX_RES PROVOST 10-21-37-1	0.00	0	PMP	WTR	0	0	0
0114023	1F1/10-21-037-01W4/0	10-21-037-01W4	52.197367	-110.087719	CALTEX_RES PROVOST 10-21-37-1	0.00	0	SUS SRC	WTR	0	0	0
0114024	1F2/10-21-037-01W4/0	10-21-037-01W4	52.196468	-110.08772	CALTEX_RES PROVOST 10-21-37-1	0.00	0	OBS	N/A	0	0	0
0490141	103/07-21-037-01W4/0	05-22-037-01W4	52.192032	-110.07251	CALTEX_RES 103 HZ PROVOST 7-21-37-1	0.00	0	PMP	OIL	0	0	0
0489845	102/13-22-037-01W4/2	09-22-037-01W4	52.19627	-110.055342	CALTEX_RES 102 MH PROVOST 13-22-37-1	0.00	0	DRAIN	N/A	0	0	0
0479991	104/11-23-037-01W4/2	09-22-037-01W4	52.195947	-110.055343	CALTEX_RES 104 HZ PROVOST 11-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0479991	104/11-23-037-01W4/3	09-22-037-01W4	52.195947	-110.055343	CALTEX_RES 104 HZ PROVOST 11-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0489838	100/14-23-037-01W4/2	09-22-037-01W4	52.196342	-110.055342	CALTEX_RES MHZ PROVOST 14-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0480665	103/12-22-037-01W4/2	10-22-037-01W4	52.194637	-110.060156	CALTEX_RES 103 MH PROVOST 12-22-37-1	0.00	0	DRAIN	N/A	0	0	0
0480665	103/12-22-037-01W4/3	10-22-037-01W4	52.194637	-110.060156	CALTEX_RES 103 MH PROVOST 12-22-37-1	0.00	0	DRAIN	N/A	0	0	0
0485082	105/03-24-037-01W4/2	01-23-037-01W4	52.188856	-110.033707	CALTEX_RES 105 MHZ PROVOST 3-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0482429	104/13-13-037-01W4/2	02-23-037-01W4	52.18927	-110.037957	CALTEX_RES 104 MH PROVOST 13-13-37-1	0.00	0	DRAIN	N/A	0	0	0
0482628	106/13-13-037-01W4/2	02-23-037-01W4	52.189143	-110.038165	CALTEX_RES 100 MH PROVOST 12-13-37-1	0.00	0	DRAIN	N/A	0	0	0



**Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan**

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

East Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0489844	102/04-23-037-01W4/2	02-23-037-01W4	52.188788	-110.038528	CALTEX_RES HZ PROVOST 4-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0489844	102/04-23-037-01W4/3	02-23-037-01W4	52.188788	-110.038528	CALTEX_RES HZ PROVOST 4-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0482471	102/05-23-037-01W4/2	07-23-037-01W4	52.192276	-110.037916	CALTEX_RES 102 MHZ PROVOST 5-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0482553	104/05-23-037-01W4/2	07-23-037-01W4	52.192097	-110.037916	CALTEX_RES 104 MHZ PROVOST 5-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0482553	104/05-23-037-01W4/3	07-23-037-01W4	52.192097	-110.037916	CALTEX_RES 104 MHZ PROVOST 5-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0481732	103/06-24-037-01W4/2	09-23-037-01W4	52.195437	-110.031522	CALTEX_RES 103 MHZ PROVOST 6-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0481920	104/10-24-037-01W4/2	09-23-037-01W4	52.195617	-110.031521	CALTEX_RES 104 MH PROVOST 10-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0482094	106/10-24-037-01W4/2	09-23-037-01W4	52.195796	-110.03152	CALTEX_RES 106 MH PROVOST 10-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0482094	106/10-24-037-01W4/3	09-23-037-01W4	52.195796	-110.03152	CALTEX_RES 106 MH PROVOST 10-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0482201	102/16-13-037-01W4/2	03-24-037-01W4	52.188574	-110.019766	CALTEX_RES 102 MH PROVOST 16-13-37-1	0.00	0	DRAIN	N/A	0	0	0
0479782	103/01-24-037-01W4/2	03-24-037-01W4	52.189105	-110.019764	CALTEX_RES 102 MHZ PROVOST 8-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0056831	100/03-24-037-01W4/0	03-24-037-01W4	52.188716	-110.020107	CALTEX_RES PROVOST 3-24-37-1	0.00	0	SUS	OIL	0	0	0
0484563	104/08-24-037-01W4/2	06-24-037-01W4	52.192544	-110.020556	CALTEX_RES 104 MHZ PROVOST 8-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0484488	106/08-24-037-01W4/2	06-24-037-01W4	52.192688	-110.020555	CALTEX_RES 100 PROVOST 9-24-37-1	0.00	0	DRAIN	N/A	0	0	0
0484699	103/07-23-037-01W4/2	12-24-037-01W4	52.195145	-110.024866	CALTEX_RES 103 MHZ PROVOST 7-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0484668	104/10-23-037-01W4/2	12-24-037-01W4	52.195289	-110.024866	CALTEX_RES 104 MH PROVOST 10-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0484708	106/10-23-037-01W4/2	12-24-037-01W4	52.195432	-110.024865	CALTEX_RES 106 PROVOST 10-23-37-1	0.00	0	DRAIN	N/A	0	0	0
0484708	100/15-23-037-01W4/3	12-24-037-01W4	52.195432	-110.024865	CALTEX_RES 106 PROVOST 10-23-37-1	0.00	0	DRAIN	N/A	0	0	0

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Natural Gas Pipelines																					
37814	1	06-23-037-01W4	S	--	01-23-037-01W4	PL	--	NG	O	1240	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	2	01-23-037-01W4	PL	--	09-14-037-01W4	B	--	NG	O	630	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	3	06-24-037-01W4	S	--	03-24-037-01W4	S	--	NG	O	410	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	4	15-13-037-01W4	S	--	03-24-037-01W4	S	--	NG	O	670	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	5	03-24-037-01W4	S	--	01-23-037-01W4	PL	--	NG	O	850	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	6	11-14-037-01W4	S	--	09-14-037-01W4	B	--	NG	O	880	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	7	03-13-037-01W4	S	--	09-14-037-01W4	B	--	NG	O	1830	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	10	15-12-037-01W4	PL	--	03-13-037-01W4	S	--	NG	O	550	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	11	01-14-037-01W4	WE	--	03-13-037-01W4	S	--	NG	O	970	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	12	05-13-037-01W4	WE	--	03-13-037-01W4	PL	--	NG	O	650	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	13	02-24-037-01W4	PL	--	15-13-037-01W4	S	--	NG	O	450	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	14	13-14-037-01W4	WE	--	11-14-037-01W4	S	--	NG	O	770	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	15	02-23-037-01W4	WE	--	07-23-037-01W4	S	--	NG	O	390	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	20	12-23-037-01W4	WE	--	06-23-037-01W4	S	--	NG	O	610	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	22	13-13-037-01W4	WE	--	03-24-037-01W4	S	--	NG	O	620	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	25	10-24-037-01W4	WE	--	06-24-037-01W4	S	--	NG	O	810	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	26	11-24-037-01W4	WE	--	11-24-037-01W4	PL	--	NG	O	450	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	27	10-14-037-01W4	WE	--	10-14-037-01W4	PL	--	NG	O	200	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	28	09-14-037-01W4	WE	--	10-14-037-01W4	PL	--	NG	O	390	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	29	07-14-037-01W4	WE	--	10-14-037-01W4	PL	--	NG	O	420	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	32	07-21-037-01W4	WE	--	01-21-037-01W4	PL	--	NG	O	1430	114.30	15.66	0.10	0.10	1100	1100	na	na	20	0	10
37814	33	09-16-037-01W4	WE	--	16-16-037-01W4	PL	--	NG	O	600	88.90	12.18	0.10	0.10	1100	1100	na	na	10	0	10
37814	34	01-21-037-01W4	PL	--	14-15-037-01W4	PL	--	NG	O	420	114.30	15.66	0.10	0.10	1100	1100	na	na	20	0	10
37814	35	14-15-037-01W4	PL	--	10-15-037-01W4	PL	--	NG	O	580	114.30	15.66	0.10	0.10	1100	1100	na	na	20	0	10
37814	36	10-15-037-01W4	PL	--	13-14-037-01W4	PL	--	NG	O	910	114.30	15.66	0.10	0.10	1100	1100	na	na	20	0	10
37814	37	10-21-037-01W4	WE	--	07-21-037-01W4	PL	--	NG	O	520	114.30	15.66	0.10	0.10	1100	1100	na	na	20	0	10

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Natural Gas Pipelines																					
37814	38	06-14-037-01W4	WE	--	11-14-037-01W4	PL	--	NG	O	240	88.90	8.10	0.10	0.10	1100	1100	na	na	20	0	10
37814	39	09-12-037-01W4	WE	--	10-12-037-01W4	S	--	NG	O	400	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	40	09-12-037-01W4	WE	--	10-12-037-01W4	S	--	NG	O	200	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	41	10-12-037-01W4	S	--	15-12-037-01W4	PL	--	NG	O	460	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	42	08-12-037-01W4	WE	--	09-12-037-01W4	PL	--	NG	O	550	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	43	08-23-037-01W4	S	--	07-23-037-01W4	S	--	NG	O	340	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	44	02-23-037-01W4	WE	--	07-23-037-01W4	PL	--	NG	O	230	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	45	07-23-037-01W4	PL	--	08-23-037-01W4	S	--	NG	O	270	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	46	08-23-037-01W4	WE	--	08-23-037-01W4	S	--	NG	O	240	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	47	02-13-037-01W4	WE	--	03-13-037-01W4	PL	--	NG	O	400	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	48	04-13-037-01W4	PL	--	03-13-037-01W4	PL	--	NG	O	370	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	49	15-16-037-01W4	WE	--	16-16-037-01W4	PL	--	NG	O	310	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	50	16-16-037-01W4	WE	--	16-16-037-01W4	PL	--	NG	O	150	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	53	04-13-037-01W4	WE	--	03-13-037-01W4	PL	--	NG	O	600	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	54	14-12-037-01W4	S	--	03-13-037-01W4	S	--	NG	O	310	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	55	03-13-037-01W4	PL	--	03-13-037-01W4	S	--	NG	O	310	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	56	02-24-037-01W4	WE	--	02-24-037-01W4	PL	--	NG	O	240	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	57	06-24-037-01W4	WE	--	07-24-037-01W4	PL	--	NG	O	250	88.90	8.08	0.10	0.10	1100	1100	na	na	20	0	10
37814	59	07-24-037-01W4	PL	--	06-24-037-01W4	S	--	NG	O	430	114.30	10.39	0.10	0.10	1100	1100	na	na	20	0	10
37814	61	09-22-037-01W4	S	--	12-23-037-01W4	PL	--	NG	O	540	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	62	10-22-037-01W4	WE	--	09-22-037-01W4	S	--	NG	O	370	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	63	09-23-037-01W4	WE	--	08-23-037-01W4	S	--	NG	O	320	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	64	11-24-037-01W4	PL	--	06-24-037-01W4	S	--	NG	O	220	60.30	5.50	0.10	0.10	1100	1100	na	na	10	0	0
37814	65	12-24-037-01W4	WE	--	11-24-037-01W4	PL	--	NG	O	280	60.30	5.49	0.10	0.10	1100	1100	na	na	10	0	0
37814	66	08-23-037-01W4	WE	--	08-23-037-01W4	PL	--	NG	O	170	60.30	5.49	0.10	0.10	1100	1100	na	na	10	0	0
37814	67	11-13-037-01W4	WE	--	14-13-037-01W4	PL	--	NG	O	410	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Natural Gas Pipelines																					
37814	68	14-13-037-01W4	WE	--	03-24-037-01W4	S	--	NG	O	500	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	69	12-22-037-01W4	S	--	10-22-037-01W4	PL	--	NG	O	870	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	70	05-22-037-01W4	WE	--	12-22-037-01W4	S	--	NG	O	310	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	71	07-21-037-01W4	WE	--	12-22-037-01W4	PL	--	NG	O	790	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
37814	72	04-21-037-01W4	WE	--	05-21-037-01W4	PL	--	NG	TBC	440	60.30	6.70	0.10	0.10	1100	1100	na	na	10	0	0
37814	73	05-21-037-01W4	WE	--	07-21-037-01W4	PL	--	NG	TBC	1050	88.90	9.88	0.10	0.10	1100	1100	na	na	10	0	10
Sour Oil Effluent Pipelines																					
53430	1	02-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	400	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	3	08-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	240	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	4	02-13-037-01W4	WE	--	03-13-037-01W4	S	--	OE	O	400	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	5	04-13-037-01W4	WE	--	03-13-037-01W4	S	--	OE	O	370	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	6	04-13-037-01W4	WE	--	03-13-037-01W4	S	--	OE	O	370	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	7	15-16-037-01W4	WE	--	16-16-037-01W4	S	--	OE	O	160	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	9	16-16-037-01W4	PL	--	13-15-037-01W4	S	--	OE	O	470	128.00	14.50	0.08	0.08	4960	n/app.	21	Level na	40	0	30
53430	13	03-13-037-01W4	WE	--	14-12-037-01W4	S	--	OE	O	220	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	14	04-13-037-01W4	WE	--	14-12-037-01W4	S	--	OE	O	600	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	15	02-24-037-01W4	WE	--	02-24-037-01W4	PL	--	OE	O	240	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	16	06-24-037-01W4	WE	--	07-24-037-01W4	PL	--	OE	O	250	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	20	01-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	400	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	21	09-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	320	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	22	09-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	320	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
53430	23	09-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	320	99.00	11.00	0.08	0.08	4960	n/app.	21	Level na	30	0	20
57648	2	06-23-037-01W4	S	--	07-23-037-01W4	S	--	OE	O	400	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	3	07-23-037-01W4	S	--	01-23-037-01W4	PL	--	OE	O	840	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	4	01-23-037-01W4	PL	--	09-14-037-01W4	B	--	OE	O	630	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	5	06-24-037-01W4	S	--	03-24-037-01W4	S	--	OE	O	410	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Oil Effluent Pipelines																					
57648	9	15-13-037-01W4	S	--	03-24-037-01W4	S	--	OE	O	670	114.30	8.13	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	12	03-24-037-01W4	S	--	01-23-037-01W4	PL	--	OE	O	850	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	14	11-14-037-01W4	S	--	10-14-037-01W4	PL	--	OE	O	240	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	16	11-14-037-01W4	PL	--	09-14-037-01W4	B	--	OE	O	640	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	17	04-13-037-01W4	WE	--	03-13-037-01W4	S	--	OE	O	460	114.30	8.13	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	18	03-13-037-01W4	S	--	09-14-037-01W4	B	--	OE	O	1610	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	20	15-12-037-01W4	PL	--	03-13-037-01W4	S	--	OE	O	550	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	22	01-14-037-01W4	WE	--	03-13-037-01W4	S	--	OE	O	970	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	23	05-13-037-01W4	WE	--	03-13-037-01W4	S	--	OE	O	650	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	24	02-24-037-01W4	WE	--	15-13-037-01W4	S	--	OE	O	450	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	25	13-14-037-01W4	WE	--	11-14-037-01W4	S	--	OE	O	770	219.10	5.60	0.10	0.10	4960	n/app.	26	Level na	80	10	60
57648	27	12-14-037-01W4	WE	--	11-14-037-01W4	S	--	OE	O	490	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	28	02-23-037-01W4	WE	--	07-23-037-01W4	S	--	OE	O	390	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	35	12-23-037-01W4	WE	--	06-23-037-01W4	S	--	OE	O	610	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	36	12-23-037-01W4	WE	--	06-23-037-01W4	S	--	OE	O	610	123.40	10.16	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	37	13-13-037-01W4	WE	--	03-24-037-01W4	S	--	OE	O	620	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	46	10-14-037-01W4	PL	--	11-14-037-01W4	S	--	OE	O	690	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	48	09-14-037-01W4	WE	--	10-14-037-01W4	PL	--	OE	O	390	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	49	07-14-037-01W4	WE	--	10-14-037-01W4	PL	--	OE	O	420	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	53	14-15-037-01W4	WE	--	13-15-037-01W4	PL	--	OE	O	420	90.80	7.80	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	55	09-16-037-01W4	WE	--	13-15-037-01W4	PL	--	OE	O	810	121.70	10.30	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	56	13-15-037-01W4	PL	--	10-15-037-01W4	PL	--	OE	O	1000	121.70	10.30	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	57	10-15-037-01W4	PL	--	13-14-037-01W4	PL	--	OE	O	910	121.70	10.30	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	60	06-14-037-01W4	WE	--	11-14-037-01W4	PL	--	OE	O	240	122.00	10.40	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	61	09-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	400	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	62	09-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	400	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Oil Effluent Pipelines																					
57648	64	09-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	200	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	65	09-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	200	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	66	15-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	240	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	67	15-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	240	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	68	15-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	240	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	69	15-12-037-01W4	WE	--	10-12-037-01W4	S	--	OE	O	460	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	70	10-12-037-01W4	S	--	15-12-037-01W4	PL	--	OE	O	460	158.60	9.50	0.10	0.10	4960	n/app.	26	Level na	60	10	50
57648	71	08-12-037-01W4	WE	--	09-12-037-01W4	PL	--	OE	O	550	86.50	5.20	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	72	08-23-037-01W4	S	--	07-23-037-01W4	S	--	OE	O	340	179.90	18.80	0.10	0.10	4960	n/app.	26	Level na	60	10	50
57648	74	14-12-037-01W4	S	--	03-13-037-01W4	S	--	OE	O	310	179.90	18.80	0.10	0.10	4960	n/app.	26	Level na	60	10	50
57648	76	05-23-037-01W4	PL	--	12-23-037-01W4	S	--	OE	O	300	101.00	12.00	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	77	09-22-037-01W4	S	--	12-23-037-01W4	PL	--	OE	O	540	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	78	10-22-037-01W4	WE	--	09-22-037-01W4	S	--	OE	O	390	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	79	10-22-037-01W4	WE	--	09-22-037-01W4	S	--	OE	O	390	99.00	11.00	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	80	02-23-037-01W4	PL	--	07-23-037-01W4	PL	--	OE	O	340	129.00	15.00	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	81	10-14-037-01W4	WE	--	11-14-037-01W4	S	--	OE	O	690	94.70	8.64	0.10	0.10	9930	n/app.	54	Level na	60	10	50
57648	82	12-24-037-01W4	WE	--	06-24-037-01W4	S	--	OE	O	510	129.00	15.00	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	83	11-24-037-01W4	PL	--	06-24-037-01W4	S	--	OE	O	220	94.70	8.64	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	84	12-24-037-01W4	WE	--	11-24-037-01W4	PL	--	OE	O	280	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	85	08-23-037-01W4	WE	--	08-23-037-01W4	S	--	OE	O	170	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	87	14-13-037-01W4	WE	--	03-24-037-01W4	S	--	OE	O	500	129.00	15.00	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	88	11-13-037-01W4	WE	--	14-13-037-01W4	PL	--	OE	O	410	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	89	11-13-037-01W4	WE	--	14-13-037-01W4	PL	--	OE	O	410	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	90	12-22-037-01W4	S	--	10-22-037-01W4	PL	--	OE	O	870	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	91	05-22-037-01W4	WE	--	12-22-037-01W4	S	--	OE	O	310	129.00	15.00	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	92	05-22-037-01W4	WE	--	12-22-037-01W4	S	--	OE	O	310	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30

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License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sour Oil Effluent Pipelines																					
57648	93	07-21-037-01W4	WE	--	12-22-037-01W4	S	--	OE	O	790	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	94	07-21-037-01W4	WE	--	12-22-037-01W4	S	--	OE	O	790	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30
57648	95	07-24-037-01W4	PL	--	06-24-037-01W4	S	--	OE	O	430	128.00	14.50	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	96	05-21-037-01W4	WE	--	07-21-037-01W4	PL	--	OE	TBC	1050	168.30	4.80	0.10	0.10	4960	n/app.	26	Level na	70	10	60
57648	97	04-21-037-01W4	WE	--	05-21-037-01W4	PL	--	OE	TBC	440	129.00	15.00	0.10	0.10	4960	n/app.	26	Level na	50	10	40
57648	98	04-21-037-01W4	WE	--	05-21-037-01W4	S	--	OE	TBC	440	100.00	11.50	0.10	0.10	4960	n/app.	26	Level na	40	10	30
Sweet Pipelines																					
57647	6	09-14-037-01W4	B	--	03-13-037-01W4	S	--	SW	O	1830	168.30	4.80	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	18	15-12-037-01W4	PL	--	10-12-037-01W4	S	--	SW	O	460	112.80	6.70	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	19	10-12-037-01W4	S	--	09-12-037-01W4	WE	--	SW	O	400	112.80	6.70	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	20	10-12-037-01W4	S	--	09-12-037-01W4	WE	--	SW	O	400	112.80	6.70	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	21	10-12-037-01W4	S	--	16-12-037-01W4	WE	--	SW	O	250	112.80	6.70	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	23	03-13-037-01W4	S	--	04-13-037-01W4	PL	--	SW	O	370	128.00	14.50	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	24	03-13-037-01W4	S	--	04-13-037-01W4	PL	--	SW	O	370	128.00	14.50	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	25	03-13-037-01W4	S	--	14-12-037-01W4	S	--	SW	O	310	128.00	14.50	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	27	10-12-037-01W4	S	--	10-12-037-01W4	PL	--	SW	O	210	99.00	11.00	0.00	0.00	9930	9930	0	n/app.	0	0	0
57647	37	03-13-037-01W4	PL	--	15-12-037-01W4	PL	--	SW	O	420	129.00	15.00	0.00	0.00	9930	9930	0	n/app.	0	0	0
54134	6	09-14-037-01W4	B	--	11-14-037-01W4	S	--	ML	O	880	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	12	11-14-037-01W4	S	--	13-14-037-01W4	PL	--	ML	O	770	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	33	13-14-037-01W4	WE	--	05-23-037-01W4	PL	--	ML	O	900	128.00	14.50	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	34	05-23-037-01W4	PL	--	12-23-037-01W4	S	--	ML	O	300	128.00	14.50	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	35	12-23-037-01W4	PL	--	09-22-037-01W4	S	--	ML	O	540	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	36	09-22-037-01W4	S	--	10-22-037-01W4	WE	--	ML	O	390	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	37	13-14-037-01W4	PL	--	13-15-037-01W4	PL	--	ML	O	1910	121.70	10.30	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	38	13-15-037-01W4	PL	--	09-16-037-01W4	WE	--	ML	O	810	121.70	10.30	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	39	06-24-037-01W4	S	--	12-24-037-01W4	WE	--	ML	O	510	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0

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License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
54134	40	03-24-037-01W4	S	--	14-13-037-01W4	WE	--	ML	O	500	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	41	14-13-037-01W4	PL	--	11-13-037-01W4	WE	--	ML	O	410	100.00	11.50	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	42	14-13-037-01W4	PL	--	11-13-037-01W4	WE	--	ML	O	410	100.00	11.50	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	43	09-14-037-01W4	B	--	01-23-037-01W4	PL	--	ML	O	630	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	44	01-23-037-01W4	PL	--	07-23-037-01W4	PL	--	ML	O	800	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	45	01-23-037-01W4	PL	--	03-24-037-01W4	S	--	ML	O	850	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	46	03-24-037-01W4	S	--	06-24-037-01W4	S	--	ML	O	410	114.30	8.13	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	48	08-23-037-01W4	S	--	09-23-037-01W4	WE	--	ML	O	320	99.00	11.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	49	08-23-037-01W4	S	--	09-23-037-01W4	WE	--	ML	O	320	99.00	11.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	50	07-23-037-01W4	S	--	02-23-037-01W4	WE	--	ML	O	340	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	51	08-23-037-01W4	WE	--	08-23-037-01W4	PL	--	ML	O	170	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	52	01-23-037-01W4	PL	--	01-23-037-01W4	WE	--	ML	O	140	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	53	10-22-037-01W4	PL	--	12-22-037-01W4	S	--	ML	O	870	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	54	12-22-037-01W4	S	--	05-22-037-01W4	WE	--	ML	O	310	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	55	12-22-037-01W4	PL	--	07-21-037-01W4	WE	--	ML	O	790	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	56	06-23-037-01W4	PL	--	12-23-037-01W4	PL	--	ML	O	520	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	57	09-14-037-01W4	B	--	01-23-037-01W4	PL	--	ML	O	660	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	58	01-23-037-01W4	PL	--	01-23-037-01W4	WE	--	ML	O	110	116.10	8.40	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	59	01-23-037-01W4	PL	--	07-23-037-01W4	PL	--	ML	O	730	114.30	8.13	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	60	09-23-037-01W4	PL	--	12-24-037-01W4	PL	--	ML	O	490	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	61	07-23-037-01W4	PL	--	06-23-037-01W4	PL	--	ML	O	440	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	62	05-21-037-01W4	PL	--	04-21-037-01W4	WE	--	ML	TBC	440	129.00	15.00	0.00	0.00	9920	9920	0	n/app.	0	0	0
54134	63	07-21-037-01W4	PL	--	05-21-037-01W4	WE	--	ML	TBC	1050	168.30	4.80	0.00	0.00	9920	9920	0	n/app.	0	0	0
19320	1	08-14-037-01W4	WE	--	08-14-037-01W4	PL	--	NG	O	230	33.40	3.04	0.00	0.00	380	380	0	n/app.	0	0	0
19320	2	08-14-037-01W4	PL	--	05-13-037-01W4	PL	--	NG	O	20	33.40	3.38	0.00	0.00	380	380	0	n/app.	0	0	0
19320	3	05-13-037-01W4	PL	--	03-24-037-01W4	WE	--	NG	O	1470	33.40	3.04	0.00	0.00	380	380	0	n/app.	0	0	0

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License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
19320	4	03-24-037-01W4	WE	--	07-24-037-01W4	PL	--	NG	O	640	33.40	3.04	0.00	0.00	380	380	0	n/app.	0	0	0
19587	1	01-12-037-01W4	WE	--	03-13-037-01W4	PL	--	FG	O	2160	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	3	10-12-037-01W4	PL	--	10-12-037-01W4	WE	--	FG	O	330	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	4	11-12-037-01W4	PL	--	11-12-037-01W4	WE	--	FG	O	200	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	5	14-12-037-01W4	PL	--	14-12-037-01W4	PL	--	FG	O	50	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	6	03-13-037-01W4	PL	--	15-12-037-01W4	WE	--	FG	O	600	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	7	03-13-037-01W4	PL	--	03-13-037-01W4	WE	--	FG	O	160	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	8	04-24-037-01W4	PL	--	03-13-037-01W4	PL	--	FG	O	1900	60.40	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	12	04-24-037-01W4	PL	--	14-13-037-01W4	WE	--	FG	O	550	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	13	07-23-037-01W4	PL	--	04-24-037-01W4	PL	--	FG	O	1360	60.40	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	17	07-23-037-01W4	PL	--	02-23-037-01W4	WE	--	FG	O	340	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	18	11-23-037-01W4	PL	--	07-23-037-01W4	PL	--	FG	O	620	60.40	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	20	11-23-037-01W4	PL	--	10-23-037-01W4	PL	--	FG	O	710	60.40	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	22	09-22-037-01W4	WE	--	11-23-037-01W4	PL	--	FG	O	910	60.40	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	23	02-13-037-01W4	PL	--	08-13-037-01W4	PL	--	FG	O	820	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	27	10-15-037-01W4	PL	--	08-22-037-01W4	PL	--	FG	O	1100	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	29	08-22-037-01W4	PL	--	09-22-037-01W4	PL	--	FG	O	460	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	30	03-13-037-01W4	PL	--	01-14-037-01W4	WE	--	FG	O	410	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	31	14-13-037-01W4	WE	--	15-13-037-01W4	WE	--	FG	O	490	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	32	15-13-037-01W4	WE	--	02-24-037-01W4	WE	--	FG	O	450	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	33	07-23-037-01W4	PL	--	09-23-037-01W4	WE	--	FG	O	650	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	35	13-13-037-01W4	PL	--	03-24-037-01W4	S	--	FG	O	350	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	36	03-24-037-01W4	S	--	04-24-037-01W4	WE	--	FG	O	410	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	37	03-24-037-01W4	S	--	07-24-037-01W4	WE	--	FG	O	770	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	38	03-24-037-01W4	S	--	06-24-037-01W4	S	--	FG	O	470	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	39	06-24-037-01W4	S	--	05-24-037-01W4	WE	--	FG	O	430	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
19587	41	06-24-037-01W4	S	--	10-24-037-01W4	WE	--	FG	O	810	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	42	06-24-037-01W4	S	--	11-24-037-01W4	PL	--	FG	O	220	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	43	15-12-037-01W4	WE	--	16-12-037-01W4	WE	--	FG	O	550	33.40	3.00	0.00	0.00	550	550	0	n/app.	0	0	0
19587	45	07-24-037-01W4	WE	--	08-24-037-01W4	WE	--	FG	O	340	33.40	3.00	0.00	0.00	550	550	0	n/app.	0	0	0
19587	46	01-23-037-01W4	PL	--	01-23-037-01W4	WE	--	FG	O	100	33.40	3.00	0.00	0.00	550	550	0	n/app.	0	0	0
19587	47	10-23-037-01W4	PL	--	10-23-037-01W4	PL	--	FG	O	110	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0
19587	50	15-12-037-01W4	PL	--	10-12-037-01W4	S	--	FG	O	460	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	51	10-12-037-01W4	S	--	09-12-037-01W4	WE	--	FG	O	400	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	52	10-12-037-01W4	S	--	09-12-037-01W4	WE	--	FG	O	200	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	53	09-12-037-01W4	PL	--	08-12-037-01W4	WE	--	FG	O	550	33.40	3.04	0.00	0.00	550	550	0	n/app.	0	0	0
19587	54	07-23-037-01W4	PL	--	02-23-037-01W4	WE	--	FG	O	230	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	55	08-23-037-01W4	S	--	07-23-037-01W4	PL	--	FG	O	270	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	56	08-23-037-01W4	S	--	08-23-037-01W4	WE	--	FG	O	240	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	57	03-13-037-01W4	PL	--	02-13-037-01W4	WE	--	FG	O	400	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	58	03-13-037-01W4	PL	--	04-13-037-01W4	PL	--	FG	O	370	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	59	16-16-037-01W4	PL	--	15-16-037-01W4	WE	--	FG	O	310	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	60	16-16-037-01W4	S	--	16-16-037-01W4	WE	--	FG	O	150	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	63	04-13-037-01W4	PL	--	03-13-037-01W4	PL	--	FG	O	600	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	64	03-13-037-01W4	S	--	14-12-037-01W4	S	--	FG	O	310	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	65	03-13-037-01W4	PL	--	03-13-037-01W4	WE	--	FG	O	310	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	66	02-24-037-01W4	PL	--	02-24-037-01W4	WE	--	FG	O	240	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	67	07-24-037-01W4	PL	--	06-24-037-01W4	WE	--	FG	O	250	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
19587	69	06-24-037-01W4	PL	--	07-24-037-01W4	PL	--	FG	O	430	88.90	8.08	0.00	0.00	550	550	0	n/app.	0	0	0
19587	71	09-22-037-01W4	PL	--	10-22-037-01W4	WE	--	FG	O	390	60.30	5.49	0.00	0.00	550	550	0	n/app.	0	0	0
19587	72	11-24-037-01W4	PL	--	12-24-037-01W4	WE	--	FG	O	280	60.30	5.49	0.00	0.00	550	550	0	n/app.	0	0	0
19587	73	11-24-037-01W4	PL	--	11-24-037-01W4	WE	--	FG	O	450	33.40	3.02	0.00	0.00	550	550	0	n/app.	0	0	0



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
19587	74	08-23-037-01W4	S	--	08-23-037-01W4	WE	--	FG	O	170	60.30	5.49	0.00	0.00	550	550	0	n/app.	0	0	0
19587	75	14-13-037-01W4	PL	--	11-13-037-01W4	WE	--	FG	O	410	60.30	6.70	0.00	0.00	550	550	0	n/app.	0	0	0
19587	76	10-22-037-01W4	PL	--	12-22-037-01W4	S	--	FG	O	870	60.30	6.70	0.00	0.00	550	550	0	n/app.	0	0	0
19587	77	12-22-037-01W4	S	--	05-22-037-01W4	WE	--	FG	O	310	60.30	6.70	0.00	0.00	550	550	0	n/app.	0	0	0
19587	78	12-22-037-01W4	PL	--	07-21-037-01W4	WE	--	FG	O	790	60.30	6.70	0.00	0.00	550	550	0	n/app.	0	0	0
19587	79	05-21-037-01W4	PL	--	04-21-037-01W4	WE	--	FG	TBC	440	60.30	6.70	0.00	0.00	550	550	0	n/app.	0	0	0
19587	80	07-21-037-01W4	PL	--	05-21-037-01W4	WE	--	FG	TBC	1050	60.30	6.70	0.00	0.00	550	550	0	n/app.	0	0	0
20149	29	06-20-037-01W4	PL	--	10-15-037-01W4	PL	--	FG	O	3900	60.30	3.18	0.00	0.00	6200	6200	0	n/app.	0	0	0
20149	36	16-16-037-01W4	PL	--	13-15-037-01W4	PL	--	FG	O	470	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
20149	39	13-15-037-01W4	PL	--	14-15-037-01W4	WE	--	FG	O	200	60.30	5.48	0.00	0.00	550	550	0	n/app.	0	0	0
20149	40	10-15-037-01W4	WE	--	14-15-037-01W4	WE	--	FG	O	640	60.30	8.26	0.00	0.00	550	550	0	n/app.	0	0	0
20149	41	16-16-037-01W4	PL	--	09-16-037-01W4	WE	--	FG	O	600	60.30	8.26	0.00	0.00	550	550	0	n/app.	0	0	0
28926	3	06-20-037-01W4	PL	--	10-21-037-01W4	PL	--	NG	O	2430	82.00	4.57	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	1	13-14-037-01W4	WE	--	10-15-037-01W4	WE	--	FG	O	660	60.30	5.49	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	2	13-14-037-01W4	WE	--	12-14-037-01W4	WE	--	FG	O	160	60.30	5.49	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	3	12-14-037-01W4	WE	--	11-14-037-01W4	WE	--	FG	O	390	60.30	5.49	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	5	11-14-037-01W4	WE	--	06-14-037-01W4	WE	--	FG	O	100	60.30	5.49	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	6	06-14-037-01W4	WE	--	06-14-037-01W4	WE	--	FG	O	100	60.30	5.49	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	7	09-14-037-01W4	B	--	11-14-037-01W4	PL	--	FG	O	820	88.90	8.10	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	8	09-14-037-01W4	B	--	08-14-037-01W4	WE	--	FG	O	450	33.40	3.04	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	9	11-14-037-01W4	S	--	10-14-037-01W4	WE	--	FG	O	690	33.40	3.00	0.00	0.00	550	550	0	n/app.	0	0	0
36219	10	10-14-037-01W4	PL	--	09-14-037-01W4	WE	--	FG	O	390	33.40	3.05	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	11	10-14-037-01W4	PL	--	07-14-037-01W4	WE	--	FG	O	420	33.40	3.05	0.00	0.00	1100	1100	0	n/app.	0	0	0
36219	12	11-14-037-01W4	PL	--	05-14-037-01W4	WE	--	FG	O	240	60.30	5.49	0.00	0.00	1100	1100	0	n/app.	0	0	0
39028	1	09-14-037-01W4	B	--	16-23-036-01W4	CS	--	NG	O	8110	88.90	12.17	0.00	0.00	1750	1750	0	n/app.	0	0	0
49322	1	10-21-037-01W4	WE	--	13-15-037-01W4	PL	--	FW	O	1940	122.00	11.50	0.00	0.00	1930	1930	0	n/app.	0	0	0



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
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East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
49322	2	13-15-037-01W4	PL	--	11-14-037-01W4	PL	--	FW	O	2660	122.00	11.50	0.00	0.00	1900	1900	0	n/app.	0	0	0
49322	3	11-14-037-01W4	PL	--	09-14-037-01W4	B	--	FW	O	1060	122.00	11.50	0.00	0.00	1900	1900	0	n/app.	0	0	0
49322	4	09-12-037-01W4	WE	--	09-14-037-01W4	B	--	FW	O	2180	122.00	11.50	0.00	0.00	1900	1900	0	n/app.	0	0	0
Discontinued Pipelines																					
19587	24	09-22-037-01W4	BE	--	08-22-037-01W4	BE	--	FG	D	360	33.40	3.04	0.00	0.00	0	na	-	-	-	-	-
29765	3	11-14-037-01W4	BE	--	11-14-037-01W4	BE	--	OE	D	190	88.90	3.20	0.05	0.05	0	na	-	-	-	-	-
29765	4	11-14-037-01W4	BE	--	11-14-037-01W4	BE	--	OE	D	190	88.90	3.20	0.05	0.05	0	na	-	-	-	-	-
36219	4	11-14-037-01W4	BE	--	11-14-037-01W4	BE	--	FG	D	150	60.30	5.49	0.00	0.00	0	na	-	-	-	-	-
36352	1	06-14-037-01W4	BE	--	06-14-037-01W4	BE	--	SW	D	100	80.80	2.54	0.00	0.00	0	na	-	-	-	-	-
37814	16	09-23-037-01W4	BE	--	07-23-037-01W4	BE	--	NG	D	650	60.30	5.50	0.10	0.10	0	na	-	-	-	-	-
37814	17	10-23-037-01W4	BE	--	07-23-037-01W4	BE	--	NG	D	550	60.30	5.50	0.10	0.10	0	na	-	-	-	-	-
37814	23	05-24-037-01W4	BE	--	06-24-037-01W4	BE	--	NG	D	430	60.30	5.50	0.10	0.10	0	na	-	-	-	-	-
53430	2	07-23-037-01W4	BE	--	08-23-037-01W4	BE	--	OE	D	270	99.00	11.00	0.08	0.08	0	na	-	-	-	-	-
53430	8	16-16-037-01W4	BE	--	16-16-037-01W4	BE	--	OE	D	150	99.00	11.00	0.08	0.08	0	na	-	-	-	-	-
53430	10	16-16-037-01W4	BE	--	13-15-037-01W4	BE	--	OE	D	470	128.00	14.50	0.08	0.08	0	na	-	-	-	-	-
53430	19	09-23-037-01W4	BE	--	08-23-037-01W4	BE	--	OE	D	330	99.00	11.00	0.08	0.08	0	na	-	-	-	-	-
54134	47	03-24-037-01W4	BE	--	14-13-037-01W4	BE	--	ML	D	470	94.70	8.64	0.00	0.00	0	na	-	-	-	-	-
57647	9	03-24-037-01W4	BE	--	15-13-037-01W4	BE	--	SW	D	670	114.30	8.13	0.00	0.00	0	na	-	-	-	-	-
57647	10	03-13-037-01W4	BE	--	15-12-037-01W4	BE	--	SW	D	550	123.40	10.16	0.00	0.00	0	na	-	-	-	-	-
57647	12	15-12-037-01W4	BE	--	16-12-037-01W4	BE	--	SW	D	550	94.70	8.64	0.00	0.00	0	na	-	-	-	-	-
57647	14	08-24-037-01W4	BE	--	07-24-037-01W4	BE	--	SW	D	340	94.70	8.64	0.00	0.00	0	na	-	-	-	-	-
57647	15	07-23-037-01W4	BE	--	09-23-037-01W4	BE	--	SW	D	650	94.70	8.64	0.00	0.00	0	na	-	-	-	-	-
57647	22	10-12-037-01W4	BE	--	10-12-037-01W4	BE	--	SW	D	210	112.80	6.70	0.00	0.00	0	na	-	-	-	-	-
57647	26	14-12-037-01W4	BE	--	04-13-037-01W4	BE	--	SW	D	600	99.00	11.00	0.00	0.00	0	na	-	-	-	-	-
57647	29	07-23-037-01W4	BE	--	10-23-037-01W4	BE	--	SW	D	200	99.00	11.00	0.00	0.00	0	na	-	-	-	-	-
57647	30	10-23-037-01W4	BE	--	10-23-037-01W4	BE	--	SW	D	210	99.00	11.00	0.00	0.00	0	na	-	-	-	-	-

East Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Discontinued Pipelines																					
57648	1	07-23-037-01W4	BE	--	06-23-037-01W4	BE	--	OE	D	400	114.30	8.13	0.10	0.10	0	na	-	-	-	-	-
57648	6	06-24-037-01W4	BE	--	03-24-037-01W4	BE	--	OE	D	410	114.30	8.13	0.10	0.10	0	na	-	-	-	-	-
57648	10	15-13-037-01W4	BE	--	03-24-037-01W4	BE	--	OE	D	670	168.30	4.80	0.10	0.10	0	na	-	-	-	-	-
57648	11	04-24-037-01W4	BE	--	03-24-037-01W4	BE	--	OE	D	350	114.30	8.13	0.10	0.10	0	na	-	-	-	-	-
57648	13	11-14-037-01W4	BE	--	11-14-037-01W4	BE	--	OE	D	220	114.30	8.13	0.10	0.10	0	na	-	-	-	-	-
57648	19	10-12-037-01W4	BE	--	15-12-037-01W4	BE	--	OE	D	580	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	21	15-12-037-01W4	BE	--	03-13-037-01W4	BE	--	OE	D	550	123.40	10.16	0.10	0.10	0	na	-	-	-	-	-
57648	26	13-14-037-01W4	BE	--	11-14-037-01W4	BE	--	OE	D	770	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	29	10-23-037-01W4	BE	--	07-23-037-01W4	BE	--	OE	D	550	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	30	10-23-037-01W4	BE	--	07-23-037-01W4	BE	--	OE	D	550	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	31	10-23-037-01W4	BE	--	07-23-037-01W4	BE	--	OE	D	550	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	34	12-23-037-01W4	BE	--	06-23-037-01W4	BE	--	OE	D	610	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	38	05-24-037-01W4	BE	--	06-24-037-01W4	BE	--	OE	D	430	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	40	10-24-037-01W4	BE	--	06-24-037-01W4	BE	--	OE	D	810	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	41	10-24-037-01W4	BE	--	06-24-037-01W4	BE	--	OE	D	810	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	42	11-24-037-01W4	BE	--	11-24-037-01W4	BE	--	OE	D	450	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	43	11-24-037-01W4	BE	--	06-24-037-01W4	BE	--	OE	D	670	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	44	11-24-037-01W4	BE	--	06-24-037-01W4	BE	--	OE	D	670	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	47	10-14-037-01W4	BE	--	11-14-037-01W4	BE	--	OE	D	690	94.70	8.64	0.10	0.10	0	na	-	-	-	-	-
57648	52	16-16-037-01W4	BE	--	13-15-037-01W4	BE	--	OE	D	370	90.80	7.80	0.10	0.10	0	na	-	-	-	-	-
57648	54	09-16-037-01W4	BE	--	13-15-037-01W4	BE	--	OE	D	810	90.80	7.80	0.10	0.10	0	na	-	-	-	-	-
57648	58	13-15-037-01W4	BE	--	10-15-037-01W4	BE	--	OE	D	1000	90.80	7.80	0.10	0.10	0	na	-	-	-	-	-
57648	59	10-15-037-01W4	BE	--	11-14-037-01W4	BE	--	OE	D	1680	90.80	7.80	0.10	0.10	0	na	-	-	-	-	-
57648	73	04-13-037-01W4	BE	--	03-13-037-01W4	BE	--	OE	D	370	179.90	18.80	0.10	0.10	0	na	-	-	-	-	-



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License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	IIZ (m)	PAZ (m)
Pipeline Legend:																					
Facility:	B = Battery BE = Blind End CS = Compressor Station DH = Dehydrator GP = Gas Plant GS = Gathering System MS = Meter Station PL = Pipeline S = Satellite WE = Well																				
Substance:	CO = Crude Oil FG = Fuel Gas FW = Fresh Water NG = Natural Gas OE = Oil Well Effluent OM = Oil Emulsion SC = Sour Crude SE = Sour Effluent SG = Sour Gas SW = Salt Water																				
Status:	A = Abandoned D = Discontinued I = Inactive O = Operating Q = Active R = Removed S = Suspended TBC = To Be Constructed																				
Valve:	CV = Check Valve ESD = Emergency Shut Down Valve																				
Other:	L = Length OD = Outside Diameter WT = Wall Thickness MOP = Maximum Operating Pressure GLR = Gas to Liquid Ratio																				

East Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Operating											
F22973	F22973	10-12-037-01W4			CALTEX_RES 10-12-037-01W4	Battery	Operating	60	10	50	
F41387	F41387	10-12-037-01W4			CALTEX_RES 10-12-037-01W4	Satellite	Operating	60	10	50	
F43542	F43542	14-12-037-01W4			CALTEX_RES 14-12-037-01W4	Satellite	Operating	60	10	50	
F22974	F22974	04-13-037-01W4			CALTEX_RES 04-13-037-01W4	Battery	Operating	50	10	40	
ABGS0105890	F26542	09-14-037-01W4			CALTEX_RES 09-14-037-01W4	Gas gathering system	Operating	80	10	60	
ABBT0103213	F26542	09-14-037-01W4			CALTEX_RES 09-14-037-01W4	Battery	Operating	80	10	60	
ABIF0119799	F26542	09-14-037-01W4			CALTEX_RES 09-14-037-01W4	Injection Plant	Operating	80	10	60	
F5710	F5710	13-14-037-01W4			CALTEX_RES 13-14-037-01W4	Battery	Operating	80	10	60	
F40337	F40337	09-16-037-01W4			CALTEX_RES 09-16-037-01W4	Battery	Operating	50	10	40	
ABBT0102961		10-21-037-01W4			CALTEX_RES 10-21-037-01W4	Battery	Active	20	0	10	
F40764	F40764	06-23-037-01W4			CALTEX_RES 06-23-037-01W4	Satellite	Operating	70	10	60	
F43540	F43540	08-23-037-01W4			CALTEX_RES 08-23-037-01W4	Satellite	Operating	60	10	50	
F23662	F23662	03-24-037-01W4			CALTEX_RES 03-24-037-01W4	Satellite	Operating	80	10	60	
F23660	F23660	05-24-037-01W4			CALTEX_RES 05-24-037-01W4	Battery	Unknown	0	0	0	
ABBT7500146	F23658	07-24-037-01W4			CALTEX_RES 07-24-037-01W4	Battery	Operating	50	10	40	
F43541	F43541	07-24-037-01W4			CALTEX_RES 07-24-037-01W4	Satellite	Operating	50	10	40	
Licensed											
F23661	F23661	04-24-037-01W4			CALTEX_RES 04-24-037-01W4	Battery		0	0	0	
Suspended											
ABBT7500189	W 0083450	01-12-037-01W4			CALTEX_RES 01-12-037-01W4	Battery	Suspended	-	-	-	
ABBT0054937	W 0044007	10-12-037-01W4			CALTEX_RES 10-12-037-01W4	Battery	Suspended	-	-	-	
ABBT0054938	W 0054145	04-13-037-01W4			CALTEX_RES 04-13-037-01W4	Battery	Suspended	-	-	-	
ABBT0153939	W 0275021	13-13-037-01W4			CALTEX_RES 13-13-037-01W4	Battery	Suspended	-	-	-	
ABBT0101001	W 0408686	05-14-037-01W4			CALTEX_RES 05-14-037-01W4	Battery	Suspended	-	-	-	

East Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
ABBT0075394	F26542	09-14-037-01W4			CALTEX_RES 09-14-037-01W4	Battery	Suspended	-	-	-	
ABBT0057376	F5707	11-14-037-01W4			CALTEX_RES 11-14-037-01W4	Battery	Suspended	-	-	-	
ABBT0053437	W 0186974	11-14-037-01W4			CALTEX_RES 11-14-037-01W4	Battery	Suspended	-	-	-	
ABBT0053435	W 0186973	13-14-037-01W4			CALTEX_RES 13-14-037-01W4	Battery	Suspended	-	-	-	
ABBT0096975	W 0365131	09-16-037-01W4			CALTEX_RES 09-16-037-01W4	Battery	Suspended	-	-	-	
ABBT0133853	W 0088209	05-21-037-01W4			CALTEX_RES 05-21-037-01W4	Battery	Suspended	-	-	-	
ABBT0117077	W 0434072	08-21-037-01W4			CALTEX_RES 08-21-037-01W4	Battery	Suspended	-	-	-	
ABBT0117059	W 0434071	06-22-037-01W4			CALTEX_RES 06-22-037-01W4	Battery	Suspended	-	-	-	
ABBT0094907	W 0092848	08-22-037-01W4			CALTEX_RES 08-22-037-01W4	Battery	Suspended	-	-	-	
ABBT0054588	W 0088045	09-22-037-01W4			CALTEX_RES 09-22-037-01W4	Battery	Suspended	-	-	-	
ABBT0134004	W 0088045	09-22-037-01W4			CALTEX_RES 09-22-037-01W4	Battery	Suspended	-	-	-	
ABBT0118188	W 0434024	11-22-037-01W4			CALTEX_RES 11-22-037-01W4	Battery	Suspended	-	-	-	
ABBT0118888	W 0434077	01-23-037-01W4			CALTEX_RES 01-23-037-01W4	Battery	Suspended	-	-	-	
ABBT0054590	F23665	06-23-037-01W4			CALTEX_RES 06-23-037-01W4	Battery	Suspended	-	-	-	
ABBT0054591	F23666	08-23-037-01W4			CALTEX_RES 08-23-037-01W4	Battery	Suspended	-	-	-	
ABBT0118887	W 0434574	09-23-037-01W4			CALTEX_RES 09-23-037-01W4	Battery	Suspended	-	-	-	
ABBT0147460	W 0434293	02-24-037-01W4			CALTEX_RES 02-24-037-01W4	Battery	Suspended	-	-	-	
ABBT7500145	W 0056831	03-24-037-01W4			CALTEX_RES 03-24-037-01W4	Battery	Suspended	-	-	-	
ABBT7500223	W 0096877	04-24-037-01W4			CALTEX_RES 04-24-037-01W4	Battery	Suspended	-	-	-	
ABBT7500405	F23659	06-24-037-01W4			CALTEX_RES 06-24-037-01W4	Battery	Suspended	-	-	-	
ABBT0154360	W 0434007	06-24-037-01W4			CALTEX_RES 06-24-037-01W4	Battery	Suspended	-	-	-	
ABBT7500233	W 0099267	10-24-037-01W4			CALTEX_RES 10-24-037-01W4	Battery	Suspended	-	-	-	



**Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan**

Revision Date:
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Senior HSE Advisor - Heavy Oil

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Main Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0069121	1C0/03-17-037-01W4/0	03-17-037-01W4	52.174665	-110.116895	CALTEX_RES PROVOST 3-17-37-1	0.00	0	SUS	OIL	0	0	0
0054412	100/05-17-037-01W4/2	05-17-037-01W4	52.177909	-110.121981	CALTEX_RES PROVOST 5-17-37-1	0.00	0	PMP	OIL	0	0	0
0095975	103/05-17-037-01W4/0	05-17-037-01W4	52.177193	-110.118736	CALTEX_RES PROVOST 5-17-37-1	0.00	0	SUS	OIL	0	0	0
0095968	100/06-17-037-01W4/0	06-17-037-01W4	52.178098	-110.117265	CALTEX_RES PROVOST 6-17-37-1	0.00	0	SUS	OIL	0	0	0
0095973	104/06-17-037-01W4/0	06-17-037-01W4	52.178099	-110.114326	CALTEX_RES PROVOST 6-17-37-1	0.00	0	SUS	OIL	0	0	0
0046702	105/06-17-037-01W4/0	06-17-037-01W4	52.178341	-110.116122	CALTEX_RES PROVOST 6-17-37-1	0.00	0	SUS	OIL	0	0	0
0051162A	100/11-17-037-01W4/0	11-17-037-01W4	52.179933	-110.117308	CALTEX_RES PROVOST 11-17-37-1	0.00	0	SUS	OIL	0	0	0
0070433	103/11-17-037-01W4/0	11-17-037-01W4	52.18082	-110.115815	CALTEX_RES PROVOST 11-17-37-1	0.00	0	SUS	OIL	0	0	0
0095981	105/11-17-037-01W4/0	11-17-037-01W4	52.1799	-110.114325	CALTEX_RES PROVOST 11-17-37-1	0.00	0	PMP	OIL	0	0	0
0095977	107/11-17-037-01W4/0	11-17-037-01W4	52.180805	-110.112855	CALTEX_RES PROVOST 11-17-37-1	0.00	0	SUSP	OIL	0	0	0
0095969	108/11-17-037-01W4/0	11-17-037-01W4	52.182613	-110.112854	CALTEX_RES PROVOST 11-17-37-1	0.00	0	OBS	N/A	0	0	0
0059276	109/11-17-037-01W4/0	11-17-037-01W4	52.181088	-110.117281	CALTEX_RES PROVOST 11-17-37-1	0.00	0	OBS	N/A	0	0	0
0091017	102/12-17-037-01W4/0	12-17-037-01W4	52.181707	-110.120204	CALTEX_RES PROVOST 12-17-37-1	0.00	0	PMP	OIL	0	0	0
0084781	103/12-17-037-01W4/0	12-17-037-01W4	52.180802	-110.121674	CALTEX_RES PROVOST 12-17-37-1	0.00	0	SUS	OIL	0	0	0
0098522	104/12-17-037-01W4/0	12-17-037-01W4	52.182607	-110.121821	CALTEX_RES PROVOST 12-17-37-1	0.00	0	SUS	OIL	0	0	0
0098522	104/12-17-037-01W4/2	12-17-037-01W4	52.182607	-110.121821	CALTEX_RES PROVOST 12-17-37-1	0.00	0	SUS	GAS	0	0	0
0070571	107/12-17-037-01W4/0	12-17-037-01W4	52.182621	-110.118759	CALTEX_RES PROVOST 12-17-37-1	0.00	0	SUS	OIL	0	0	0
0153430	105/05-17-037-01W4/0	13-17-037-01W4	52.186094	-110.121104	CALTEX_RES PROVOST 5-17-37-1	0.00	0	SUS	OIL	0	0	0
0095978	100/13-17-037-01W4/0	13-17-037-01W4	52.183515	-110.120207	CALTEX_RES PROVOST 13-17-37-1	0.00	0	PMP	OIL	0	0	0
0095979	102/13-17-037-01W4/0	13-17-037-01W4	52.185322	-110.120206	CALTEX_RES PROVOST 13-17-37-1	0.00	0	SUS	OIL	0	0	0



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Main Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0095980	104/13-17-037-01W4/0	13-17-037-01W4	52.18623	-110.118736	CALTEX_RES PROVOST 13-17-37-1	0.00	0	PMP	OIL	0	0	0
0053838	1C0/13-17-037-01W4/0	13-17-037-01W4	52.185442	-110.121492	CALTEX_RES PROVOST 13-17-37-1	0.00	0	SUS	OIL	0	0	0
0150376	102/12-20-037-01W4/0	13-17-037-01W4	52.185694	-110.121812	CALTEX_RES PROVOST 12-20-37-1	0.00	0	SUS	OIL	0	0	0
0095967	102/14-17-037-01W4/0	14-17-037-01W4	52.185331	-110.117265	CALTEX_RES PROVOST 14-17-37-1	0.00	0	SUS	OIL	0	0	0
0095970	104/14-17-037-01W4/0	14-17-037-01W4	52.186228	-110.115794	CALTEX_RES PROVOST 14-17-37-1	0.00	0	SUS	OIL	0	0	0
0095971	105/14-17-037-01W4/0	14-17-037-01W4	52.183517	-110.114323	CALTEX_RES PROVOST 14-17-37-1	0.00	0	SUS	OIL	0	0	0
0095966	106/14-17-037-01W4/0	14-17-037-01W4	52.185324	-110.114325	CALTEX_RES PROVOST 14-17-37-1	0.00	0	PMP	OIL	0	0	0
0045208	107/14-17-037-01W4/0	14-17-037-01W4	52.185554	-110.116073	CALTEX_RES PROVOST 14-17-37-1	0.00	0	SUS	OIL	0	0	0
0062236	1D0/01-18-037-01W4/2	01-18-037-01W4	52.174678	-110.126109	CALTEX_RES PROVOST 1-18-37-1	0.00	0	PMP	OIL	0	0	0
0054433	100/09-18-037-01W4/0	09-18-037-01W4	52.181663	-110.126064	CALTEX_RES PROVOST 9-18-37-1	0.00	0	SUS	OIL	0	0	0
0054433	100/09-18-037-01W4/2	09-18-037-01W4	52.181663	-110.126064	CALTEX_RES PROVOST 9-18-37-1	0.00	0	SUS	OIL	0	0	0
0054433	100/09-18-037-01W4/3	09-18-037-01W4	52.181663	-110.126064	CALTEX_RES PROVOST 9-18-37-1	0.00	0	PMP	OIL	0	0	0
0146511	1A0/09-18-037-01W4/0	09-18-037-01W4	52.179987	-110.12615	CALTEX_RES PROVOST 9-18-37-1	0.00	0	SUS	OIL	0	0	0
0045961	100/10-18-037-01W4/0	10-18-037-01W4	52.181742	-110.131723	CALTEX_RES PROVOST 10-18-37-1	0.00	0	INJ	WTR	0	0	0
0045346	100/16-18-037-01W4/0	16-18-037-01W4	52.185046	-110.125953	CALTEX_RES PROVOST 16-18-37-1	0.00	0	SUS	OIL	0	0	0
0090729	102/16-18-037-01W4/2	16-18-037-01W4	52.184705	-110.128003	CALTEX_RES PROVOST 16-18-37-1	0.00	0	SUS	OIL	0	0	0
0146530	1A0/16-18-037-01W4/2	16-18-037-01W4	52.183602	-110.126151	CALTEX_RES PROVOST 16-18-37-1	0.00	0	SUS	OIL	0	0	0
0054428	100/01-19-037-01W4/2	01-19-037-01W4	52.188922	-110.126154	CALTEX_RES PROVOST 1-19-37-1	0.00	0	SUS	OIL	0	0	0
0146527	1A0/01-19-037-01W4/0	01-19-037-01W4	52.187218	-110.127613	CALTEX_RES PROVOST 1-19-37-1	0.00	0	OBS	N/A	0	0	0
0047932	100/02-19-037-01W4/0	02-19-037-01W4	52.188219	-110.131836	CALTEX_RES PROVOST 2-19-37-1	0.00	0	PMP	OIL	0	0	0



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Senior HSE Advisor - Heavy Oil

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Main Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0048578	100/06-19-037-01W4/0	06-19-037-01W4	52.19205	-110.137673	CALTEX_RES PROVOST 6-19-37-1	0.00	0	D&C	N/A	0	0	0
0069122	1A0/07-19-037-01W4/0	07-19-037-01W4	52.190921	-110.131012	CALTEX_RES PROVOST 7-19-37-1	0.00	0	INJ	WTR	0	0	0
0045925	100/08-19-037-01W4/0	08-19-037-01W4	52.191812	-110.125886	CALTEX_RES PROVOST 8-19-37-1	0.00	0	SUS	OIL	0	0	0
0146529	1D0/08-19-037-01W4/0	08-19-037-01W4	52.193457	-110.124541	CALTEX_RES PROVOST 8-19-37-1	0.00	0	PMP	OIL	0	0	0
0051563	100/09-19-037-01W4/0	09-19-037-01W4	52.195899	-110.126091	CALTEX_RES PROVOST 9-19-37-1	0.00	0	SUS	OIL	0	0	0
0069123	1A0/15-19-037-01W4/0	15-19-037-01W4	52.198157	-110.131013	CALTEX_RES PROVOST 15-19-37-1	0.00	0	SUS	OIL	0	0	0
0073644	100/02-20-037-01W4/0	02-20-037-01W4	52.187805	-110.110257	CALTEX_RES PROVOST 2-20-37-1	0.00	0	PMP	OIL	0	0	0
0057440	1B0/03-20-037-01W4/0	03-20-037-01W4	52.187282	-110.116946	CALTEX_RES PROVOST 3-20-37-1	0.00	0	PMP	OIL	0	0	0
0157150	102/08-18-037-01W4/0	04-20-037-01W4	52.18846	-110.12162	CALTEX_RES PROVOST 8-18-37-1	0.00	0	SUS	OIL	0	0	0
0182925	103/04-20-037-01W4/0	04-20-037-01W4	52.188475	-110.122347	CALTEX_RES PROVOST 4-20-37-1	0.00	0	PMP	OIL	0	0	0
0049455	100/05-20-037-01W4/0	05-20-037-01W4	52.192556	-110.121692	CALTEX_RES PROVOST 5-20-37-1	0.00	0	PMP	OIL	0	0	0
0091852	102/05-20-037-01W4/0	05-20-037-01W4	52.193643	-110.121835	CALTEX_RES PROVOST 5-20-37-1	0.00	0	SUS DIS	WTR	0	0	0
0066006	102/11-20-037-01W4/0	11-20-037-01W4	52.195001	-110.11612	CALTEX_RES PROVOST 11-20-37-1	0.00	0	FLW	OIL	0	0	0
0045180	100/12-20-037-01W4/0	12-20-037-01W4	52.196173	-110.120203	CALTEX_RES PROVOST 12-20-37-1	0.00	0	PMP	OIL	0	0	0
0055720	102/13-20-037-01W4/0	13-20-037-01W4	52.200604	-110.122478	CALTEX_RES PROVOST 13-20-37-1	0.00	0	PMP	OIL	0	0	0
0158608	102/04-29-037-01W4/0	13-20-037-01W4	52.200604	-110.122478	CALTEX_RES PROVOST 4-29-37-1	0.00	0	DRAIN	N/A	0	0	0
0158608	102/04-29-037-01W4/3	13-20-037-01W4	52.200604	-110.122478	CALTEX_RES PROVOST 4-29-37-1	0.00	0	DRAIN	N/A	0	0	0
0158608	103/11-29-037-01W4/2	13-20-037-01W4	52.200604	-110.122478	CALTEX_RES PROVOST 4-29-37-1	0.00	0	DRAIN	N/A	0	0	0



Strathcona Resources Ltd.
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Main Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
9000	2	10-18-037-01W4	IP	--	07-19-037-01W4	WE	--	SW	O	1090	100.00	11.50	0.00	0.00	9920	9920	0	n/app.	0	0	0
9977	5	12-17-037-01W4	WE	--	13-17-037-01W4	PL	--	NG	O	120	60.30	5.48	0.00	0.00	690	690	0	n/app.	0	0	0
9977	6	13-17-037-01W4	PL	--	01-19-037-01W4	CS	--	NG	O	820	219.10	9.99	0.00	0.00	1100	1100	0	n/app.	0	0	0
9977	7	14-17-037-01W4	B	--	13-17-037-01W4	PL	--	NG	O	370	219.10	9.99	0.00	0.00	1100	1100	0	n/app.	0	0	0
9977	8	11-17-037-01W4	PL	--	13-17-037-01W4	PL	--	NG	O	140	219.10	9.99	0.00	0.00	1100	1100	0	n/app.	0	0	0
9977	11	03-20-037-01W4	WE	--	14-17-037-01W4	PL	--	NG	O	420	114.30	12.70	0.00	0.00	1100	1100	0	n/app.	0	0	0
9977	12	13-17-037-01W4	WE	--	13-17-037-01W4	PL	--	NG	O	60	88.90	9.88	0.00	0.00	1100	1100	0	n/app.	0	0	0
9977	14	14-17-037-01W4	WE	--	14-17-037-01W4	PL	--	NG	O	220	114.30	12.70	0.00	0.00	1120	1120	0	n/app.	0	0	0
9977	15	11-17-037-01W4	WE	--	14-17-037-01W4	PL	--	NG	O	390	114.30	12.70	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	13	08-19-037-01W4	S	--	01-19-037-01W4	CS	--	NG	O	610	114.30	2.77	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	14	13-17-037-01W4	PL	--	06-20-037-01W4	PL	--	NG	O	930	168.30	3.96	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	15	01-19-037-01W4	B	--	13-17-037-01W4	CS	--	NG	O	300	168.30	4.00	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	16	05-20-037-01W4	WE	--	13-17-037-01W4	CS	--	NG	O	870	88.90	3.18	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	17	08-19-037-01W4	WE	--	08-19-037-01W4	PL	--	NG	O	100	88.90	8.08	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	19	09-19-037-01W4	WE	--	08-19-037-01W4	S	--	NG	O	410	114.30	2.77	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	22	08-19-037-01W4	S	--	01-19-037-01W4	WE	--	NG	O	280	88.90	3.20	0.00	0.00	1100	1100	0	n/app.	0	0	0
18732	1	12-17-037-01W4	PL	--	01-18-037-01W4	WE	--	FG	O	1990	60.30	3.18	0.00	0.00	4150	4150	0	n/app.	0	0	0
18732	8	12-17-037-01W4	PL	--	12-17-037-01W4	PL	--	FG	O	190	60.30	3.18	0.00	0.00	4150	4150	0	n/app.	0	0	0
28926	5	08-18-037-01W4	WE	--	09-18-037-01W4	B	--	NG	O	360	88.90	2.77	0.00	0.00	1100	1100	0	n/app.	0	0	0
28926	6	09-18-037-01W4	S	--	16-18-037-01W4	PL	--	NG	O	290	114.30	2.77	0.00	0.00	1100	1100	0	n/app.	0	0	0
28926	7	16-18-037-01W4	PL	--	01-19-037-01W4	CS	--	NG	O	340	114.30	2.77	0.00	0.00	1100	1100	0	n/app.	0	0	0
Discontinued Pipelines																					
9000	1	01-19-037-01W4	BE	--	06-19-037-01W4	BE	--	SW	D	1010	60.30	3.91	0.00	0.00	0	na	-	-	-	-	-
9731	27	16-18-037-01W4	BE	--	09-18-037-01W4	BE	--	FG	D	400	88.90	2.77	0.00	0.00	0	na	-	-	-	-	-
11028	2	10-18-037-01W4	BE	--	09-18-037-01W4	BE	--	OE	D	400	88.90	2.77	0.00	0.00	0	na	-	-	-	-	-
11029	1	16-19-037-01W4	BE	--	08-19-037-01W4	BE	--	OE	D	680	88.90	2.77	0.00	0.00	0	na	-	-	-	-	-



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

Main Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Discontinued Pipelines																					
11029	3	01-19-037-01W4	BE	--	08-19-037-01W4	BE	--	OE	D	580	88.90	2.77	0.00	0.00	0	na	-	-	-	-	-
11029	5	01-19-037-01W4	BE	--	08-19-037-01W4	BE	--	OE	D	250	88.90	3.18	0.00	0.00	0	na	-	-	-	-	-
11029	6	07-19-037-01W4	BE	--	08-19-037-01W4	BE	--	OE	D	330	88.90	3.18	0.00	0.00	0	na	-	-	-	-	-
11029	8	16-18-037-01W4	BE	--	09-18-037-01W4	BE	--	OE	D	200	88.90	3.20	0.00	0.00	0	na	-	-	-	-	-
11029	9	08-19-037-01W4	BE	--	08-19-037-01W4	BE	--	OE	D	200	88.90	3.20	0.00	0.00	0	na	-	-	-	-	-
11029	10	08-19-037-01W4	BE	--	08-19-037-01W4	BE	--	OE	D	520	88.90	3.20	0.00	0.00	0	na	-	-	-	-	-
11634	21	02-19-037-01W4	BE	--	01-19-037-01W4	BE	--	NG	D	500	88.90	2.77	0.00	0.00	0	na	-	-	-	-	-
19938	1	14-17-037-01W4	BE	--	16-18-037-01W4	BE	--	SW	D	920	114.30	3.18	0.00	0.00	0	na	-	-	-	-	-

Pipeline Legend:

Facility:	B = Battery BE = Blind End CS = Compressor Station DH = Dehydrator GP = Gas Plant GS = Gathering System MS = Meter Station PL = Pipeline S = Satellite WE = Well
Substance:	CO = Crude Oil FG = Fuel Gas FW = Fresh Water NG = Natural Gas OE = Oil Well Effluent OM = Oil Emulsion SC = Sour Crude SE = Sour Effluent SG = Sour Gas SW = Salt Water
Status:	A = Abandoned D = Discontinued I = Inactive O = Operating Q = Active R = Removed S = Suspended TBC = To Be Constructed
Valve:	CV = Check Valve ESD = Emergency Shut Down Valve
Other:	L = Length OD = Outside Diameter WT = Wall Thickness MOP = Maximum Operating Pressure GLR = Gas to Liquid Ratio

Main Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Operating											
ABBT0054581	W 0054412	05-17-037-01W4			CALTEX_RES 05-17-037-01W4	Battery	Operating	0	0	0	
ABBT0146665	W 0095981	11-17-037-01W4			CALTEX_RES 11-17-037-01W4	Battery	Operating	0	0	0	
ABBT0147311	W 0084781	12-17-037-01W4			CALTEX_RES 12-17-037-01W4	Battery	Operating	0	0	0	
ABBT0054582	W 0091017	12-17-037-01W4			CALTEX_RES 12-17-037-01W4	Battery	Operating	0	0	0	
ABBT0147476	W 0095978	13-17-037-01W4			CALTEX_RES 13-17-037-01W4	Battery	Operating	0	0	0	
ABBT0099385	W 0095980	13-17-037-01W4			CALTEX_RES 13-17-037-01W4	Battery	Operating	0	0	0	
ABBT0146648	W 0095966	14-17-037-01W4			CALTEX_RES 14-17-037-01W4	Battery	Operating	0	0	0	
ABBT0099379	W 0062236	01-18-037-01W4			CALTEX_RES 01-18-037-01W4	Battery	Operating	0	0	0	
ABBT0060299	W 0146511	09-18-037-01W4			CALTEX_RES 09-18-037-01W4	Battery	Operating	0	0	0	
ABBT0149519	W 0054433	09-18-037-01W4			CALTEX_RES 09-18-037-01W4	Battery	Operating	0	0	0	
ABIF0152035	F51028	10-18-037-01W4			CALTEX_RES 10-18-037-01W4	Injection Plant	Operating	0	0	0	
ABCT0153797	F51464	16-18-037-01W4			CALTEX_RES 16-18-037-01W4	Central Treating Plants	Operating	0	0	0	
ABCS0152055	F51292	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Compressor Station	Operating	0	0	0	
ABBT0099383	W 0047932	02-19-037-01W4			CALTEX_RES 02-19-037-01W4	Battery	Operating	0	0	0	
ABBT0120342	F40198	08-19-037-01W4			CALTEX_RES 08-19-037-01W4	Battery	Operating	0	0	0	
ABBT0147477	W 0051563	09-19-037-01W4			CALTEX_RES 09-19-037-01W4	Battery	Operating	0	0	0	
ABBT0146652	W 0073644	02-20-037-01W4			CALTEX_RES 02-20-037-01W4	Battery	Operating	0	0	0	
ABBT0144654	W 0057440	03-20-037-01W4			CALTEX_RES 03-20-037-01W4	Battery	Operating	0	0	0	
ABBT0067380	W 0182925	04-20-037-01W4			CALTEX_RES 04-20-037-01W4	Battery	Operating	0	0	0	
ABBT0099384	W 0049455	05-20-037-01W4			CALTEX_RES 05-20-037-01W4	Battery	Operating	0	0	0	
F22985	F22985	11-20-037-01W4			CALTEX_RES 11-20-037-01W4	Battery	Operating	0	0	0	
ABBT0054584	W 0066006	11-20-037-01W4			CALTEX_RES 11-20-037-01W4	Battery	Operating	0	0	0	
ABBT0146647	W 0045180	12-20-037-01W4			CALTEX_RES 12-20-037-01W4	Battery	Operating	0	0	0	
ABBT0103413	W 0055720	13-20-037-01W4			CALTEX_RES 13-20-037-01W4	Battery	Operating	0	0	0	

Main Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
ABBT0146664	W 0095975	05-17-037-01W4			CALTEX_RES 05-17-037-01W4	Battery	Suspended	-	-	-	
ABBT7500061	F5711	11-17-037-01W4			CALTEX_RES 11-17-037-01W4	Battery	Suspended	-	-	-	
ABBT0100053	F22983	12-17-037-01W4			CALTEX_RES 12-17-037-01W4	Battery	Suspended	-	-	-	
ABBT0095599	W 0098522	12-17-037-01W4			CALTEX_RES 12-17-037-01W4	Battery	Suspended	-	-	-	
ABBT0059990	W 0153430	13-17-037-01W4			CALTEX_RES 13-17-037-01W4	Battery	Suspended	-	-	-	
ABBT0099778	F40199	09-18-037-01W4			CALTEX_RES 09-18-037-01W4	Battery	Suspended	-	-	-	
ABIF0152034	F51028	10-18-037-01W4			CALTEX_RES 10-18-037-01W4	Injection Plant	Suspended	-	-	-	
ABBT0147475	W 0045346	16-18-037-01W4			CALTEX_RES 16-18-037-01W4	Battery	Suspended	-	-	-	
ABBT0153470	F51464	16-18-037-01W4			CALTEX_RES 16-18-037-01W4	Battery	Suspended	-	-	-	
ABBT0085131	F5712	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Battery	Suspended	-	-	-	
ABBT7500389	F5712	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0098420	F5712	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0147624	W 0146527	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0097794	W 0054428	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0099381	W 0054428	01-19-037-01W4			CALTEX_RES 01-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0099779	F40198	08-19-037-01W4			CALTEX_RES 08-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0041184	W 0085783	14-19-037-01W4			CALTEX_RES 14-19-037-01W4	Battery	Suspended	-	-	-	
ABBT0095469	W 0073644	02-20-037-01W4			CALTEX_RES 02-20-037-01W4	Battery	Suspended	-	-	-	
ABBT0060300	W 0057440	03-20-037-01W4			CALTEX_RES 03-20-037-01W4	Battery	Suspended	-	-	-	
ABBT0059989	W 0157150	04-20-037-01W4			CALTEX_RES 04-20-037-01W4	Battery	Suspended	-	-	-	
ABBT0103409	W 0111522	04-20-037-01W4			CALTEX_RES 04-20-037-01W4	Battery	Suspended	-	-	-	
ABBT0098460	F39408	04-20-037-01W4			CALTEX_RES 04-20-037-01W4	Battery	Suspended	-	-	-	
ABBT7500271	F5714	06-20-037-01W4			CALTEX_RES 06-20-037-01W4	Battery	Suspended	-	-	-	



**Strathcona Resources Ltd.
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Revision Date:
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Approved By:
Senior HSE Advisor - Heavy Oil

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South Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0176455	100/09-27-036-01W4/0	16-22-036-01W4	52.112399	-110.054927	CALTEX_RES PROVOST 9-27-36-1	0.00	0	SUS	OIL	0	0	0
0232586	100/12-23-036-01W4/0	09-23-036-01W4	52.109358	-110.031758	CALTEX_RES PROVOST 12-23-36-1	0.00	0	PMP	OIL	0	0	0
0232589	102/12-23-036-01W4/0	09-23-036-01W4	52.109268	-110.031759	CALTEX_RES PROVOST 12-23-36-1	0.00	0	SUS	OIL	0	0	0
0232587	103/12-23-036-01W4/0	09-23-036-01W4	52.109538	-110.031758	CALTEX_RES PROVOST 12-23-36-1	0.00	0	PMP	OIL	0	0	0
0232588	104/12-23-036-01W4/0	09-23-036-01W4	52.109448	-110.031758	CALTEX_RES PROVOST 12-23-36-1	0.00	0	SUS	OIL	0	0	0
0192433	100/10-23-036-01W4/0	10-23-036-01W4	52.109588	-110.038583	CALTEX_RES PROVOST 10-23-36-1	0.00	0	OBS	N/A	0	0	0
0176304	1B0/04-25-036-01W4/0	02-25-036-01W4	52.115802	-110.012765	CALTEX_RES PROVOST 4-25-36-1	0.00	0	SUS	OIL	0	0	0
0170732	100/01-26-036-01W4/0	01-27-036-01W4	52.114551	-110.054081	CALTEX_RES PROVOST 1-26-36-1	0.00	0	SUS	OIL	0	0	0
0170894	102/08-26-036-01W4/0	08-27-036-01W4	52.11936	-110.055234	CALTEX_RES PROVOST 8-26-36-1	0.00	0	OBS	N/A	0	0	0
0088403	100/11-28-036-01W4/0	11-28-036-01W4	52.123021	-110.0899	CALTEX_RES PROVOST 11-28-36-1	0.00	0	OBS	N/A	0	0	0
0354498	100/14-32-036-01W4/0	14-29-036-01W4	52.128004	-110.115827	CALTEX_RES PROVOST 14-32-36-1	0.00	0	SUS	OIL	0	0	0
0354499	102/14-32-036-01W4/0	14-29-036-01W4	52.128005	-110.115608	CALTEX_RES PROVOST 14-32-36-1	0.00	0	PMP	OIL	0	0	0
0280366	103/07-32-036-01W4/0	15-29-036-01W4	52.128022	-110.108845	CALTEX_RES PROVOST 7-32-36-1	0.00	0	SUS	OIL	0	0	0
0280363	100/09-32-036-01W4/0	15-29-036-01W4	52.128022	-110.108655	CALTEX_RES PROVOST 9-32-36-1	0.00	0	SUS	OIL	0	0	0
0280364	102/09-32-036-01W4/0	15-29-036-01W4	52.128023	-110.108465	CALTEX_RES PROVOST 9-32-36-1	0.00	0	PMP	OIL	0	0	0
0280365	103/10-32-036-01W4/0	15-29-036-01W4	52.128021	-110.109035	CALTEX_RES PROVOST 10-32-36-1	0.00	0	SUS	OIL	0	0	0
0280367	100/11-32-036-01W4/0	15-29-036-01W4	52.128021	-110.109225	CALTEX_RES PROVOST 11-32-36-1	0.00	0	PMP	OIL	0	0	0
0354789	100/16-32-036-01W4/0	01-32-036-01W4	52.130597	-110.102118	CALTEX_RES PROVOST 16-32-36-1	0.00	0	PMP	OIL	0	0	0
0153133	100/01-33-036-01W4/0	01-32-036-01W4	52.130913	-110.102126	CALTEX_RES PROVOST 1-33-36-1	0.00	0	SUS	OIL	0	0	0
0153723	103/01-33-036-01W4/0	01-32-036-01W4	52.131003	-110.102126	CALTEX_RES PROVOST 1-33-36-1	0.00	0	SUS	OIL	0	0	0
0275586	103/08-31-036-01W4/0	04-32-036-01W4	52.129067	-110.121879	CALTEX_RES PROVOST 8-31-36-1	0.00	0	OBS	N/A	0	0	0



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South Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0276030	100/05-32-036-01W4/0	04-32-036-01W4	52.129068	-110.121499	CALTEX_RES PROVOST 5-32-36-1	0.00	0	SUS	OIL	0	0	0
0276028	100/12-32-036-01W4/0	04-32-036-01W4	52.129067	-110.121689	CALTEX_RES PROVOST 12-32-36-1	0.00	0	SUS	OIL	0	0	0
0276031	103/12-32-036-01W4/0	04-32-036-01W4	52.129068	-110.121309	CALTEX_RES PROVOST 12-32-36-1	0.00	0	PMP	OIL	0	0	0
0280369	104/12-32-036-01W4/0	04-32-036-01W4	52.129069	-110.121163	CALTEX_RES PROVOST 12-32-36-1	0.00	0	PMP	OIL	0	0	0
0154007	100/06-33-036-01W4/0	08-32-036-01W4	52.132198	-110.102132	CALTEX_RES PROVOST 6-33-36-1	0.00	0	DRAIN	N/A	0	0	0
0180359	104/06-33-036-01W4/0	08-32-036-01W4	52.132399	-110.101695	CALTEX_RES PROVOST 6-33-36-1	0.00	0	SUS	SRC	0	0	0
0154007	100/08-33-036-01W4/2	08-32-036-01W4	52.132198	-110.102132	CALTEX_RES PROVOST 6-33-36-1	0.00	0	SUS	OIL	0	0	0
0154428	102/13-33-036-01W4/3	08-32-036-01W4	52.132387	-110.102133	CALTEX_RES PROVOST 12-33-36-1	0.00	0	SUS	N/A	0	0	0
0154428	102/13-33-036-01W4/4	08-32-036-01W4	52.132387	-110.102133	CALTEX_RES PROVOST 12-33-36-1	0.00	0	OBS	N/A	0	0	0
0239790	104/02-32-036-01W4/0	10-32-036-01W4	52.138206	-110.107923	CALTEX_RES PROVOST 2-32-36-1	0.00	0	PMP	OIL	0	0	0
0180983	100/04-32-036-01W4/0	13-32-036-01W4	52.139639	-110.122203	CALTEX_RES PROVOST 4-32-36-1	0.00	0	SUS	OIL	0	0	0
0237715	102/02-05-037-01W4/0	13-32-036-01W4	52.140148	-110.119376	CALTEX_RES PROVOST 2-5-37-1	0.00	0	PMP	OIL	0	0	0
0239307	103/02-05-037-01W4/0	13-32-036-01W4	52.140346	-110.119301	CALTEX_RES PROVOST 2-5-37-1	0.00	0	PMP	OIL	0	0	0
0237729	103/07-05-037-01W4/0	13-32-036-01W4	52.140876	-110.120569	CALTEX_RES PROVOST 7-5-37-1	0.00	0	SUS	OIL	0	0	0
0156369	103/03-32-036-01W4/2	14-32-036-01W4	52.142473	-110.115775	CALTEX_RES PROVOST 3-32-36-1	0.00	0	OBS	N/A	0	0	0
0154643	100/14-05-037-01W4/0	16-32-036-01W4	52.142476	-110.103783	CALTEX_RES PROVOST 14-5-37-1	0.00	0	PMP	OIL	0	0	0
0165262	102/02-33-036-01W4/2	02-33-036-01W4	52.130499	-110.084304	CALTEX_RES PROVOST 2-33-36-1	0.00	0	D&C	N/A	0	0	0
0158972	100/04-33-036-01W4/0	04-33-036-01W4	52.131793	-110.095191	CALTEX_RES PROVOST 4-33-36-1	0.00	0	SUS	WTR	0	0	0
0156010	102/02-32-036-01W4/0	02-05-037-01W4	52.1449	-110.108481	CALTEX_RES PROVOST 2-32-36-1	0.00	0	SUS	OIL	0	0	0
0238600	107/02-32-036-01W4/0	02-05-037-01W4	52.143554	-110.109182	CALTEX_RES PROVOST 2-32-36-1	0.00	0	PMP	OIL	0	0	0
0238658	102/10-32-036-01W4/0	02-05-037-01W4	52.143644	-110.109182	CALTEX_RES PROVOST 10-32-36-1	0.00	0	PMP	OIL	0	0	0



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

South Bodo - Wells

License	UWI	Surface Location	Latitude	Longitude	Well Name	H ₂ S (%)	H ₂ S Release Rate (m ³ /sec)	Status	Substance	EPZ (m)	IIZ (m)	PAZ (m)
Sweet Wells												
0479774	1F1/02-05-037-01W4/0	02-05-037-01W4	52.145034	-110.108776	CALTEX_RES 1F1 DD PROVOST 2-5-37-1	0.00	0	N/A	N/A	0	0	0
0180904	102/10-05-037-01W4/0	02-05-037-01W4	52.145308	-110.108114	CALTEX_RES PROVOST 10-5-37-1	0.00	0	SUS	OIL	0	0	0
0305365	100/01-05-037-01W4/0	14-05-037-01W4	52.155503	-110.112485	CALTEX_RES PROVOST 1-5-37-1	0.00	0	PMP	OIL	0	0	0
0305364	106/07-05-037-01W4/0	14-05-037-01W4	52.155503	-110.112704	CALTEX_RES PROVOST 7-5-37-1	0.00	0	PMP	OIL	0	0	0
0305366	102/08-05-037-01W4/0	14-05-037-01W4	52.155503	-110.112266	CALTEX_RES PROVOST 8-5-37-1	0.00	0	SUS	OIL	0	0	0
0153655	102/08-31-036-01W4/0	01-06-037-01W4	52.144267	-110.127828	CALTEX_RES PROVOST 8-31-36-1	0.00	0	DRAIN	N/A	0	0	0
0360724	103/09-31-036-01W4/0	01-06-037-01W4	52.143849	-110.125134	CALTEX_RES PROVOST 9-31-36-1	0.00	0	SUS	OIL	0	0	0
0315485	108/07-05-037-01W4/0	01-06-037-01W4	52.143497	-110.124832	CALTEX_RES PROVOST 7-5-37-1	0.00	0	PMP	OIL	0	0	0
0315539	103/11-05-037-01W4/0	01-06-037-01W4	52.143855	-110.124832	CALTEX_RES PROVOST 11-5-37-1	0.00	0	SUS	OIL	0	0	0
0315540	104/11-05-037-01W4/0	01-06-037-01W4	52.143676	-110.124832	CALTEX_RES PROVOST 11-5-37-1	0.00	0	PMP	OIL	0	0	0
Injection Wells												
0181604	1F1/01-32-036-01W4/0	01-32-036-01W4	52.131226	-110.102638	CALTEX_RES PROVOST 1-32-36-1	0.00	0	FARM	WTR	0	0	0
0180360	105/02-33-036-01W4/0	01-32-036-01W4	52.132129	-110.101694	CALTEX_RES PROVOST 2-33-36-1	0.00	0	INJ	WTR	0	0	0
0180359	104/06-33-036-01W4/2	08-32-036-01W4	52.132399	-110.101695	CALTEX_RES PROVOST 6-33-36-1	0.00	0	SRC	WTR	0	0	0
0169235	102/07-05-037-01W4/0	13-32-036-01W4	52.140748	-110.12036	CALTEX_RES PROVOST 7-5-37-1	0.00	0	INJ	WTR	0	0	0
0154427	102/01-32-036-01W4/0	16-32-036-01W4	52.142476	-110.103491	CALTEX_RES PROVOST 1-32-36-1	0.00	0	INJ	WTR	0	0	0
0159070	103/01-32-036-01W4/0	16-32-036-01W4	52.142476	-110.10276	CALTEX_RES PROVOST 1-32-36-1	0.00	0	INJ	WTR	0	0	0
0154426	106/02-32-036-01W4/0	16-32-036-01W4	52.142476	-110.104075	CALTEX_RES PROVOST 2-32-36-1	0.00	0	INJ	WTR	0	0	0
0156012	100/02-32-036-01W4/0	02-05-037-01W4	52.1449	-110.108773	CALTEX_RES PROVOST 2-32-36-1	0.00	0	INJ	WTR	0	0	0
0155256	100/11-05-037-01W4/2	01-06-037-01W4	52.143819	-110.124833	CALTEX_RES PROVOST 11-5-37-1	0.00	0	SUS	WTR	0	0	0

South Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
9977	9	11-20-037-01W4	WE	--	12-20-037-01W4	PL	--	NG	O	340	88.90	9.88	0.00	0.00	1100	1100	0	n/app.	0	0	0
9977	10	02-20-037-01W4	WE	--	03-20-037-01W4	PL	--	NG	O	530	114.30	12.70	0.00	0.00	1100	1100	0	n/app.	0	0	0
11634	23	13-20-037-01W4	WE	--	05-20-037-01W4	PL	--	NG	O	630	88.90	2.77	0.00	0.00	1100	1100	0	n/app.	0	0	0
26542	1	01-06-037-01W4	WE	--	14-32-036-01W4	B	--	NG	O	420	88.90	3.20	0.00	0.00	1100	1100	0	n/app.	0	0	0
26542	2	02-05-037-01W4	WE	--	14-32-036-01W4	B	--	NG	O	780	88.90	3.20	0.00	0.00	1100	1100	0	n/app.	0	0	0
26542	3	16-32-037-01W4	WE	--	15-32-036-01W4	PL	--	NG	O	350	88.90	3.20	0.00	0.00	1100	1100	0	n/app.	0	0	0
26542	5	13-32-036-01W4	WE	--	14-32-036-01W4	B	--	NG	O	500	88.90	3.20	0.00	0.00	1100	1100	0	n/app.	0	0	0
26542	6	14-32-036-01W4	B	--	13-32-036-01W4	PL	--	NG	O	560	114.30	4.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
26542	8	14-05-037-01W4	WE	--	02-05-037-01W4	PL	--	NG	O	1280	88.90	8.10	0.00	0.00	1100	1100	0	n/app.	0	0	0
26542	9	06-05-037-01W4	WE	--	07-05-037-01W4	PL	--	NG	O	260	60.30	5.48	0.00	0.00	1100	1100	0	n/app.	0	0	0
26781	1	14-32-036-01W4	WE	--	13-32-036-01W4	B	--	SW	O	600	114.30	5.60	0.00	0.00	4960	4960	0	n/app.	0	0	0
26781	2	14-32-036-01W4	B	--	16-32-036-01W4	IP	--	SW	O	580	173.00	9.10	0.00	0.00	9930	9930	0	n/app.	0	0	0
26781	3	15-32-036-01W4	PL	--	02-05-037-01W4	WE	--	SW	O	260	173.00	9.10	0.00	0.00	9930	9930	0	n/app.	0	0	0
26781	7	16-32-036-01W4	PL	--	01-32-036-01W4	PL	--	SW	O	1340	178.30	11.70	0.00	0.00	9930	9930	0	n/app.	0	0	0
28464	1	14-32-036-01W4	B	--	01-32-036-01W4	CS	--	NG	O	1610	114.30	3.20	0.00	0.00	1970	1970	0	n/app.	0	0	0
34844	1	09-23-036-01W4	MS	--	16-23-036-01W4	CS	--	NG	O	120	168.30	4.00	0.00	0.00	10200	10200	0	n/app.	0	0	0
48274	1	01-32-036-01W4	CS	--	16-23-036-01W4	CS	--	NG	O	6500	114.30	3.20	0.00	0.00	1970	1970	0	n/app.	0	0	0
48274	2	04-32-036-01W4	WE	--	01-32-036-01W4	CS	--	NG	O	1920	114.30	10.40	0.00	0.00	1100	1100	0	n/app.	0	0	0
57646	1	01-06-037-01W4	WE	--	14-32-036-01W4	B	--	OE	O	920	114.30	4.00	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	21	13-32-036-01W4	WE	--	14-32-036-01W4	B	--	OE	O	560	114.00	4.30	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	22	14-32-036-01W4	PL	--	14-32-036-01W4	B	--	OE	O	280	113.00	5.97	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	23	14-32-036-01W4	PL	--	14-32-036-01W4	B	--	OE	O	280	170.00	7.62	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	24	02-05-037-01W4	WE	--	15-32-036-01W4	B	--	OE	O	660	113.00	5.97	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	25	02-05-037-01W4	WE	--	15-32-036-01W4	B	--	OE	O	660	170.00	7.62	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	27	13-32-036-01W4	WE	--	14-32-036-01W4	B	--	OE	O	450	170.00	7.62	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	28	16-32-036-01W4	WE	--	15-32-036-01W4	B	--	OE	O	760	113.00	5.97	0.00	0.00	4960	4960	0	n/app.	0	0	0



Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan

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Senior HSE Advisor - Heavy Oil

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South Bodo - Pipelines

License	Line	From Location	From Facility	From Valve	To Location	To Facility	To Valve	Substance	Status	Length (m)	OD (mm)	WT (mm)	H ₂ S (%)	Exp. H ₂ S (%)	MOP (kPa)	Exp. MOP (kPa)	H ₂ S Release Volume (m ³)	Setback Level	EPZ (m)	ILZ (m)	PAZ (m)
Sweet Pipelines																					
57646	29	16-32-036-01W4	WE	--	15-32-036-01W4	PL	--	OE	O	350	113.00	5.97	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	31	14-05-037-01W4	WE	--	02-05-037-01W4	PL	--	OE	O	1280	123.40	10.16	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	32	04-32-036-01W4	WE	--	01-32-036-01W4	S	--	OE	O	1950	170.00	7.62	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	34	01-32-036-01W4	S	--	02-05-037-01W4	B	--	OE	O	2010	170.00	7.62	0.00	0.00	4960	4960	0	n/app.	0	0	0
57646	35	10-32-036-01W4	WE	--	16-32-036-01W4	PL	--	OE	O	570	100.00	11.50	0.00	0.00	4960	4960	0	n/app.	0	0	0
Discontinued Pipelines																					
26781	9	14-32-036-01W4	BE	--	01-06-037-01W4	BE	--	SW	D	920	114.30	4.00	0.00	0.00	0	na	-	-	-	-	-
33103	1	16-22-036-01W4	BE	--	16-23-036-01W4	BE	--	NG	D	1600	114.30	3.20	0.00	0.00	0	na	-	-	-	-	-
33103	3	14-24-036-01W4	BE	--	16-23-036-01W4	BE	--	NG	D	850	114.30	3.20	0.00	0.00	0	na	-	-	-	-	-
33103	4	02-25-036-01W4	BE	--	14-24-036-01W4	BE	--	NG	D	850	114.30	3.20	0.00	0.00	0	na	-	-	-	-	-
33103	5	01-27-036-01W4	BE	--	16-22-036-01W4	BE	--	NG	D	250	114.30	3.18	0.00	0.00	0	na	-	-	-	-	-
34380	1	08-27-036-01W4	BE	--	01-27-036-01W4	BE	--	NG	D	400	114.30	3.18	0.00	0.00	0	na	-	-	-	-	-
57646	2	01-06-037-01W4	BE	--	14-32-036-01W4	BE	--	OE	D	920	114.30	4.00	0.00	0.00	0	na	-	-	-	-	-
57646	26	14-32-036-01W4	BE	--	14-32-036-01W4	BE	--	OE	D	280	113.00	5.97	0.00	0.00	0	na	-	-	-	-	-
57646	30	14-05-037-01W4	BE	--	02-05-037-01W4	BE	--	OE	D	1280	90.70	6.60	0.00	0.00	0	na	-	-	-	-	-
57646	33	04-32-036-01W4	BE	--	01-32-036-01W4	BE	--	OE	D	1950	101.00	12.00	0.00	0.00	0	na	-	-	-	-	-

Pipeline Legend:

Facility:	B = Battery BE = Blind End CS = Compressor Station DH = Dehydrator GP = Gas Plant GS = Gathering System MS = Meter Station PL = Pipeline S = Satellite WE = Well
Substance:	CO = Crude Oil FG = Fuel Gas FW = Fresh Water NG = Natural Gas OE = Oil Well Effluent OM = Oil Emulsion SC = Sour Crude SE = Sour Effluent SG = Sour Gas SW = Salt Water
Status:	A = Abandoned D = Discontinued I = Inactive O = Operating Q = Active R = Removed S = Suspended TBC = To Be Constructed
Valve:	CV = Check Valve ESD = Emergency Shut Down Valve
Other:	L = Length OD = Outside Diameter WT = Wall Thickness MOP = Maximum Operating Pressure GLR = Gas to Liquid Ratio

South Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Operating											
ABBT0051104	W 0176455	16-22-036-01W4			CALTEX_RES 16-22-036-01W4	Battery	Operating	0	0	0	
ABBT0159179	F40235	09-23-036-01W4			CALTEX_RES 09-23-036-01W4	Battery	Operating	0	0	0	
ABGS0004855	F5194	16-23-036-01W4			CALTEX_RES 16-23-036-01W4	Gas Gathering System	Operating	0	0	0	
ABCS0005194	F5194	16-23-036-01W4			CALTEX_RES 16-23-036-01W4	Compressor Station	Operating	0	0	0	
ABCS0005197	F5197	01-32-036-01W4			CALTEX_RES 01-32-036-01W4	Compressor Station	Operating	0	0	0	
ABGS0105894	F5197	01-32-036-01W4			CALTEX_RES 01-32-036-01W4	Gas Gathering System	Operating	0	0	0	
ABIF0102410	F22791	14-32-036-01W4			CALTEX_RES 14-32-036-01W4	Injection plant	Operating	0	0	0	
ABCT0124993	F22791	14-32-036-01W4			CALTEX_RES 14-32-036-01W4	Central Treating Plants	Operating	0	0	0	
ABBT0046838	F22791	14-32-036-01W4			CALTEX_RES 14-32-036-01W4	Battery	Operating	0	0	0	
ABTM0123408		14-32-036-01W4			CALTEX_RES 14-32-036-01W4	Terminals	Operating	0	0	0	
Suspended											
F36312	F36312	14-11-036-01W4			CALTEX_RES 14-11-036-01W4	Battery	Unknown	-	-	-	
ABBT0040150		16-22-036-01W4			CALTEX_RES 16-22-036-01W4	Battery	Suspended	-	-	-	
ABBT0099791	F40235	09-23-036-01W4			CALTEX_RES 09-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0062759	W 0232589	09-23-036-01W4			CALTEX_RES 09-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0062761	W 0232588	09-23-036-01W4			CALTEX_RES 09-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0062758	W 0232586	09-23-036-01W4			CALTEX_RES 09-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0062760	W 0232587	09-23-036-01W4			CALTEX_RES 09-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0078724	W 0074009	16-23-036-01W4			CALTEX_RES 16-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0051012	W 0176154	16-23-036-01W4			CALTEX_RES 16-23-036-01W4	Battery	Suspended	-	-	-	
ABBT0076243	W 0191627	06-24-036-01W4			CALTEX_RES 06-24-036-01W4	Battery	Suspended	-	-	-	
ABBT0055411	W 0191627	06-24-036-01W4			CALTEX_RES 06-24-036-01W4	Battery	Suspended	-	-	-	
ABBT0051034	W 0176452	13-24-036-01W4			CALTEX_RES 13-24-036-01W4	Battery	Suspended	-	-	-	
ABBT0051008	W 0176304	02-25-036-01W4			CALTEX_RES 02-25-036-01W4	Battery	Suspended	-	-	-	

South Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
ABBT0050259	W 0170731	01-27-036-01W4			CALTEX_RES 01-27-036-01W4	Battery	Suspended	-	-	-	
ABBT0050260	W 0170732	01-27-036-01W4			CALTEX_RES 01-27-036-01W4	Battery	Suspended	-	-	-	
ABBT0135463	W 0170732	01-27-036-01W4			CALTEX_RES 01-27-036-01W4	Battery	Suspended	-	-	-	
ABBT0099777	F40192	01-27-036-01W4			CALTEX_RES 01-27-036-01W4	Battery	Suspended	-	-	-	
ABBT0099790	F40192	01-27-036-01W4			CALTEX_RES 01-27-036-01W4	Battery	Suspended	-	-	-	
ABBT0050258	W 0170894	08-27-036-01W4			CALTEX_RES 08-27-036-01W4	Battery	Suspended	-	-	-	
ABBT0095844	W 0088403	11-28-036-01W4			CALTEX_RES 11-28-036-01W4	Battery	Suspended	-	-	-	
ABBT0076836	W 0280363	15-29-036-01W4			CALTEX_RES 15-29-036-01W4	Battery	Suspended	-	-	-	
ABIF0008839	F5198	01-32-036-01W4			CALTEX_RES 01-32-036-01W4	Injection Plant	Suspended	-	-	-	
ABBT0045957	F5198	01-32-036-01W4			CALTEX_RES 01-32-036-01W4	Battery	Suspended	-	-	-	
ABBT0076621	W 0276028	04-32-036-01W4			CALTEX_RES 04-32-036-01W4	Battery	Suspended	-	-	-	
ABBT0076585	W 0275586	04-32-036-01W4			CALTEX_RES 04-32-036-01W4	Battery	Suspended	-	-	-	
ABBT0103203	W 0239790	10-32-036-01W4			CALTEX_RES 10-32-036-01W4	Battery	Suspended	-	-	-	
ABBT0062674	W 0239790	10-32-036-01W4			CALTEX_RES 10-32-036-01W4	Battery	Suspended	-	-	-	
ABBT0052392	W 0180983	13-32-036-01W4			CALTEX_RES 13-32-036-01W4	Battery	Suspended	-	-	-	
ABBT0127013		13-32-036-01W4			CALTEX_RES 13-32-036-01W4	Battery	Suspended	-	-	-	
ABIF0102411	F22791	14-32-036-01W4			CALTEX_RES 14-32-036-01W4	Injection Plant	Suspended	-	-	-	
ABBT0056419	W 0047557	03-05-037-01W4			CALTEX_RES 03-05-037-01W4	Battery	Suspended	-	-	-	
ABBT0092660	W 0069539	06-05-037-01W4			CALTEX_RES 06-05-037-01W4	Battery	Suspended	-	-	-	
ABBT0082833	W 0305364	14-05-037-01W4			CALTEX_RES 14-05-037-01W4	Battery	Suspended	-	-	-	
ABBT0082845	W 0305365	14-05-037-01W4			CALTEX_RES 14-05-037-01W4	Battery	Suspended	-	-	-	
ABBT0082840	W 0305366	14-05-037-01W4			CALTEX_RES 14-05-037-01W4	Battery	Suspended	-	-	-	
ABBT0103201	W 0274711	01-06-037-01W4			CALTEX_RES 01-06-037-01W4	Battery	Suspended	-	-	-	
ABBT0075428	W 0274711	01-06-037-01W4			CALTEX_RES 01-06-037-01W4	Battery	Suspended	-	-	-	



**Strathcona Resources Ltd.
Conventional Heavy Emergency Response Plan**

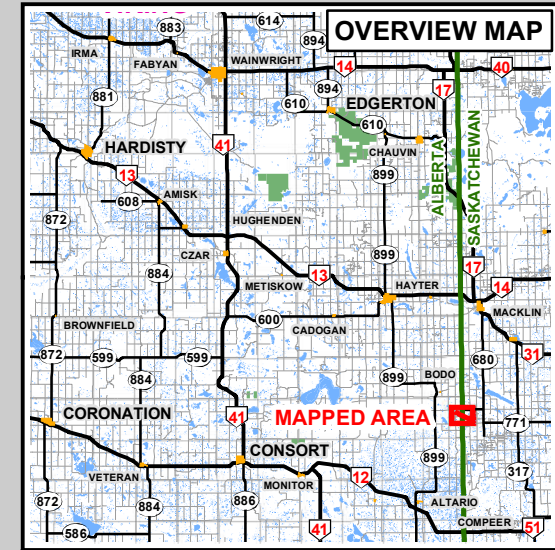
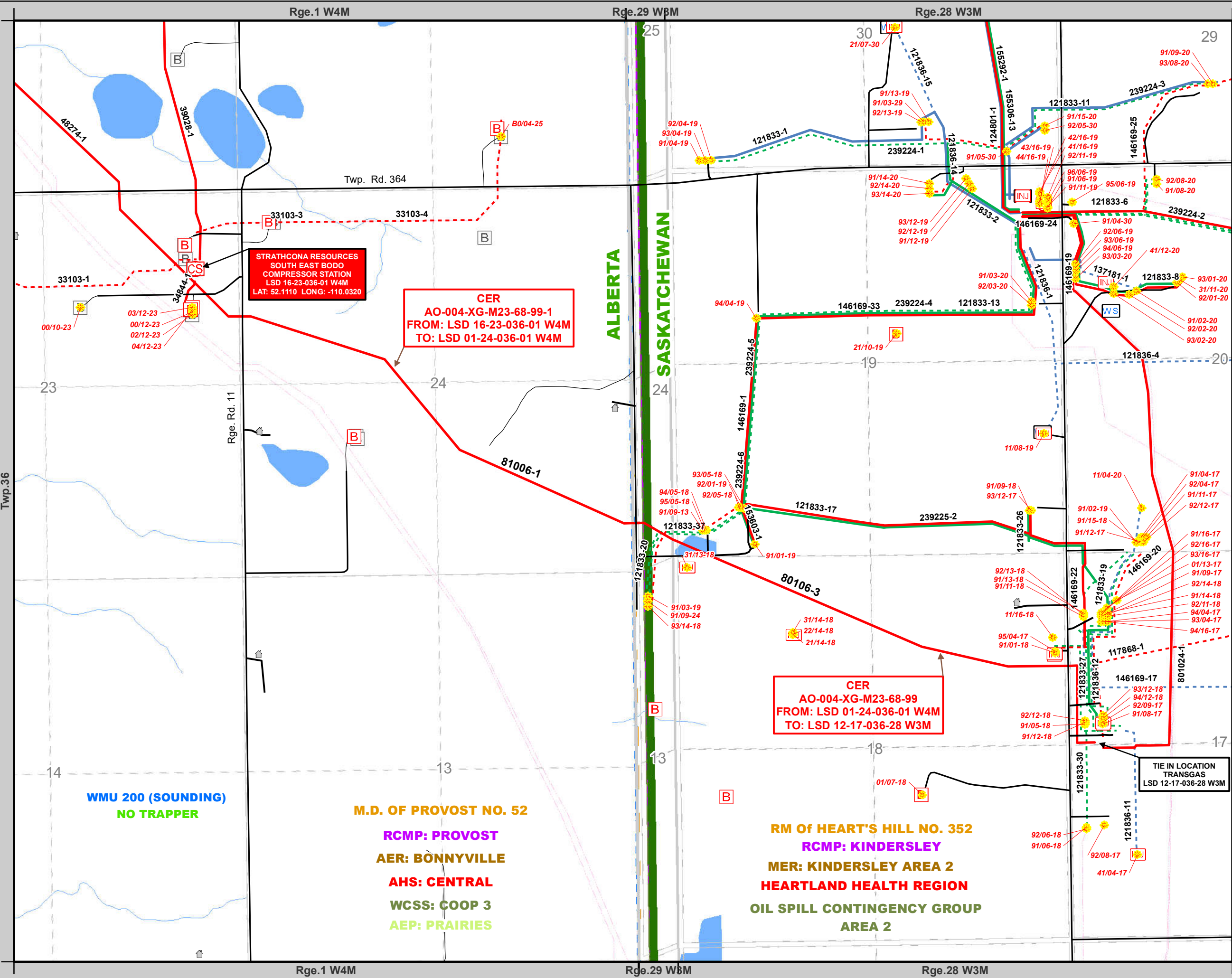
Revision Date:
March 2023

Approved By:
Senior HSE Advisor - Heavy Oil

Revision Number:
1.7

South Bodo - Facilities

Facility ID	Facility Licence	Location	Latitude	Longitude	Facility Name	Facility Type	Status	EPZ (m)	IIZ (m)	PAZ (m)	CEPA EPZ (m)
Suspended											
ABBT0083295	W 0315539	01-06-037-01W4			CALTEX_RES 01-06-037-01W4	Battery	Suspended	-	-	-	
ABBT0083296	W 0315540	01-06-037-01W4			CALTEX_RES 01-06-037-01W4	Battery	Suspended	-	-	-	
ABBT0083294	W 0315485	01-06-037-01W4			CALTEX_RES 01-06-037-01W4	Battery	Suspended	-	-	-	



FACILITIES	
	STRATHCONA WELL
	GAS PLANT
	CENTRAL PROCESSING FACILITY
	BATTERY
	COMPRESSOR
	INJECTION FACILITY
	PUMP STATION
	SATELLITE
	METER STATION
	HEADER RISER
	ESD VALVE
	CHECK VALVE
	EGRESS
	EPZ (EMERGENCY PLANNING ZONE)
	CEPA ZONE
	EPZ - OTHER AREA
	LEASE BOUNDARY

PIPELINES	
	ACTIVE
	HYDROCARBON DILUENTS
	WATER PRODUCTS
	POLYMER PRODUCTS
	OIL PRODUCTS
	GAS PRODUCTS
	FUEL GAS
	STEAM / AIR
	NON-ACTIVE

SURFACE DEVELOPMENTS	
	RESIDENCE/ BUSINESS
	SPECIAL NEEDS
	GRAZING
	CHURCH
	CEMETERY
	GRAVEL PIT
	SCHOOL
	GATE - LOCKED
	INDUSTRY CAMP
	RAIL CROSSING
	BUILDING OTHER
	COMMUNICATION TOWER

OTHER OPERATORS	
	OTHER FACILITY GAS PLANT
	OTHER OPERATOR WELL
	OTHER FACILITY OPERATOR
	OTHER OPERATOR PIPELINE

CULTURE	
	POPULATED PLACE
	FIRST NATION
	PARK/REC AREA
	PROTECTED AREA
	GRAZING LEASE
	M.D. / COUNTY
	RCMP
	HEALTH AUTHORITY
	WILDLIFE MGMT UNIT (WMU)
	ENERGY REGULATOR
	HIGHWAY
	SECONDARY ROAD
	OTHER ACCESS
	ACCESS ROUTE
	RAILWAY
	FENCE BOUNDARY
	CONTOUR LINE (INTERVAL 10 ft.)
	WATER
	TRAPLINE
	WCSS CONTROL POINT
	AIRPORT

STRATHCONA
RESOURCES LTD

CER LINES (AB / SK)
EMERGENCY RESPONSE PLANNING
BASE AREA MAP


Scale: 1:15,000
Map Projection: NAD 83 UTM 12
Map Created : March 2023

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WMU 200 (SOUNDING)
NO TRAPPER

M.D. OF PROVOST NO. 52
RCMP: PROVOST
AER: BONNYVILLE
AHS: CENTRAL
WCSS: COOP 3
AEP: PRAIRIES

RM Of HEART'S HILL NO. 352
RCMP: KINDERSLEY
MER: KINDERSLEY AREA 2
HEARTLAND HEALTH REGION
OIL SPILL CONTINGENCY GROUP
AREA 2

	Strathcona Resources Ltd. Conventional Heavy Emergency Response Plan		
	Revision Date: March 2023	Approved By: Senior HSE Advisor – Heavy Oil	Revision Number: 1.7

Area Occupant Data

Confidential Data

Confidential data collected during the Public Involvement Program will only be included in manuals labelled as confidential.

All manuals will contain contact information for publicly listed data for area occupants within the EPZ that may include Trappers, Grazing Lease Holders and Industrial Operators. Refer to each site specific area in the *Assets and Equipment Section* for this information.

The following reports are only included in copies of the confidential ERP:

Surface Development – Summary Report

- Includes contact information for all surface developments within the EPZ.
- Report sorted by Map Coordinates.

Special Needs Contacts within the EPZ – Summary Report

- Includes residents who have indicated they may require early response actions due to medical needs or communication barriers.
- Report sorted by Map Coordinates.

School / Student – Summary Report

- Includes children who may be in school during an incident.
- Report sorted by Map Coordinates.

Surface Development – Detail Report (per location)

- Includes all information pertaining to a specific location.
- The individual detail reports are sorted by Map Coordinates.

Surface Development – Summary Report (Alphabetical)

- Includes contact information for all surface developments within the EPZ.
- Report is sorted Alphabetically.

Public Information Package

A public information package was prepared and delivered to area occupants during the public involvement process. A copy of the public information package is included in all manuals.

Strathcona Resources Ltd. is one of the largest private-equity owned energy companies in North America and an industry-leading consolidator and developer of top decile oil and gas assets.

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Focused on thermal oil, enhanced oil recovery and condensate-rich Montney, our operations are located in the Cold Lake oil sands region of Alberta, the Lloydminster heavy oil region, and the Montney natural gas basin spanning west central Alberta and NE British Columbia. Annual guidance for 2022 production at these operations totals 99,000 – 103,000 barrels of oil equivalent per day, weighted 85% to liquids and an industry-leading Proven Reserve Life Index given the long-life nature of our assets.

Our strategy for continued growth is focused on the acquisition of high-quality, high-performing assets combined with the opportunity to grow production organically via low-cost brownfield expansion projects utilizing our existing infrastructure. We manage risk through our financial strength, asset and commodity diversification and disciplined allocation of capital while consistently seeking innovative ways to improve our asset performance.

At our core is our people, essential to Strathcona's high productivity and culture in which we live our values, encourage curiosity, and support personal growth. We are committed to maintaining our high standard of safety, operational and environmental performance while being positively involved in the communities where we live and work.

Taking our name from Donald Smith, Lord Strathcona, the most successful oilman in Canadian history, we hope to honour him by pursuing innovation and excellence in all we do.

The Bodo, AB / Cactus Lake North, SK field consists of sweet and sour oil and gas pipelines located within the M.D. of Provost in Alberta and the R.M. of Eye Hills No. 382 and R.M. of Heart's Hill No. 352 in Saskatchewan. It consists of 5 gathering systems (East Bodo, South Bodo, Main Bodo, Cactus Lake, Cosine) and a CER pipeline.

Sour gas from the East Bodo gathering system is chemically treated to sweet spec and flowlined to the Cactus Lake 16-19-036-28 W3M Battery for distribution to Cosine/South Bodo. There is a buy back from TransGas Ltd. for further pressure maintenance. There are 75 producing oil wells pipelined into the East Bodo 09-14-037-01 W4M battery. At the battery, the produced water is separated from the oil and is pipelined out to 57 polymerized injection wells to be injected back into formation. The sales oil from 09-14-037-01 W4M is trucked to market.

Strathcona requires certain personal information from residents to allow the company to conduct its business in keeping with the environment, health, safety & security initiatives. The collection, use and disclosure of this information are governed by provincial and/or federal legislation. Strathcona will only collect and use personal information provided by you in situations that a reasonable person would consider appropriate given the circumstances.

* INFORMATION GATHERED IS ONLY PROVIDED TO THE GOVERNMENT REGULATORS (AER) AND SELECTED RESPONDERS WITHIN THE COMPANY (STRATHCONA). ALL COPIES ARE DESTROYED AFTER OPERATIONS HAVE CEASED.

COMPANY OVERVIEW

AREA OVERVIEW

SUMMARY OF OPERATING CONDITIONS & H₂S LEVELS

PRIVACY OF PERSONAL INFORMATION

Zone (EPZ)	Maximum Emergency Planning	Maximum H ₂ S Release Rates (m ³ /s)	Concentrations (%)	Licensed Maximum H ₂ S Pressure (kPa)	Licensed Maximum Operating (Sour Assets)	Sour Gas Production
10 m	80 m	N/A	0.10 %	N/A	N/A	Well Information
Pipeline Information						

PUBLIC PREPAREDNESS & NOTIFICATION

WHY ARE YOU BEING CONTACTED?

Although the probability of an incident is low, Strathcona is taking advance preparations to ensure your safety. Strathcona would like to ensure:

- 1) You are aware of the Emergency Response Plan and understand how it functions.
- 2) You are aware of the procedures in the event of an emergency.
- 3) You are advised of methods of communication to be used in case of an emergency.

Strathcona obtains the confidential information it may need to contact each household in the immediate area.

WHAT TO DO

- 1) If you are indoors and can smell hydrogen sulphide (H₂S: a pungent, rotten egg smell), close all doors and windows and turn down the furnace & thermostat immediately. In the summer, turn off all air conditioning.
- 2) Do not use any forms of ignition (lighters, flares, wood stoves, etc.).
- 3) Contact the nearest Alberta Energy Regulator (AER) Field Centre (see front panel) and report the H₂S odour. Immediate action will be taken by the AER to determine the source of the odour.
- 4) Monitor the radio or television for explanation and instruction. You may also receive a call from the licensee responsible for the H₂S odour, the local municipality, or the AER for evacuation instructions. For major incidents, a special number may be provided, which should be called.
- 5) If you are considering leaving the area, contact the licensee representative, the authority or the AER providing further instruction or explanation.
- 6) If environmental monitoring indicates that the H₂S release may impact members of the public, an evacuation will be carried out under the direction of an authorized emergency personnel.
- 7) If you are directed to evacuate, follow the instructions that will safely move you away from the H₂S source and out of harm's way. You will also be provided with instructions to check in and register at a Reception Centre that is located in a secure and safe place.
- 8) All other individuals should consider leaving the area and should seek medical advice if health symptoms develop.

EMERGENCY PROCEDURES

At the declaration of an Emergency, Strathcona will contact individuals downwind of the incident who have special needs requiring early notification or evacuation. If you require voluntary evacuation assistance or if there is no answer to our telephone calls, we will dispatch personnel to your residence or business to verify your location and inform you of the situation.

Mobile air quality monitoring equipment will be mobilized to prepare for a potential release containing sour gas. The mobile air monitoring units are capable of detecting and recording gas at parts per billion (ppb).

In addition to the mobile air monitoring units, ground crews will be performing air monitoring using handheld units capable of detecting gas at parts per million (ppm).

Roadblocks will be set up around the Emergency Planning Zone (EPZ) to keep traffic out of the hazard area. Residents in the immediate area will be contacted, given an update of the situation and instructed on which precautions to take.

In the event the Emergency Planning Zone needs to be evacuated, a Reception Centre will be set up at a location determined by Strathcona.

In some cases, there may be concern that evacuation will expose people to greater hazard than if they remain in their homes. Buildings provide a supply of clean indoor air, which dilutes H₂S contaminated air that infiltrates from outdoors, thus reducing the concentrations to which the occupants are exposed. Therefore, sheltering may be considered as an alternative to evacuation for short durations.

24 HOUR EMERGENCY LINE: 1.888.488.7190

STRATHCONA RESOURCES LTD.

PUBLIC PROTECTION MEASURES

SHELTER IN PLACE PROCEDURES

If you are advised to stay sheltered, do not leave your house or attempt to start any vehicles until a Strathcona representative advises you that it is safe to do so. The following steps should be taken if "Shelter in Place" procedures have been implemented:

- Immediately gather everyone indoors and stay there.
- Close all windows and outside doors.
- Extinguish indoor wood burning fires.
- Turn off appliances or equipment that either:
 - Blow out or use inside air. Stuck in outside air.
 - Turn down furnace thermostats to the minimum setting and turn off all conditioners.
- Leave open all inside doors.
- Avoid using the telephone, except for emergencies, so that you can be contacted by Strathcona emergency response personnel.
- Call the company emergency numbers provided:
- If you are experiencing symptoms or smelling odours.
- If you have contacted fire, police, or ambulance (so that we can coordinate our response).
- Even if you see people outside, do not leave until told to do so.
- If unable to follow these instructions, please notify Strathcona emergency response personnel.

After the hazardous substance has passed through the area you will receive an "all clear" message. You may also receive, if required, instructions to fans and turning up thermostats. During this time the air outside might be fresher, and you may choose to leave your building while it is ventilating.

- Once the building is completely ventilated, return all equipment to normal.

EVACUATION PROCEDURES

If a Strathcona representative recommends you evacuate to a designated Reception Centre, please do so immediately. Although you may not appear to be in danger, a shift in wind direction or increased concentrations of gas could change the situation. If there is no answer to our telephone calls, or if you were to require evacuation assistance, we will dispatch Strathcona personnel to your residence or business to verify your location, inform you of the situation and provide transportation assistance, if required.

The main priority during an evacuation will be persons within the EPZ. Following the evacuation of people, it safe to do so, the evacuation of pets and livestock will be addressed. At the designated Reception Centre, and Strathcona representatives will be available to address any questions or concerns.

IGNITION

If safety of the public cannot be assured by evacuation or sheltering, the sour gases escaping from the source will be ignited. Ignition results in the hydrogen sulphide (H₂S) being burned and converted to sulphur dioxide (SO₂).

Ignition must take place when one of the following conditions has been met:

- Although required, evacuation of the response zones has not taken place.
- Monitoring results indicate H₂S concentrations in excess of 10 ppm over a 3-minute average in un-ventilated parts of the EPZ.
- Monitored H₂S concentrations exceed 1 ppm (1-hour average) in urban density developments.
- Monitoring is not taking place due to weather or other unforeseen circumstances.

The release cannot be brought under control in the short term

WHILE THE CHANCE OF AN UNCONTROLLED RELEASE OF GAS IS REMOTE, THE EMERGENCY RESPONSE PLAN FOR THIS AREA IS IN PLACE TO ENSURE YOUR SAFETY.



STRATHCONA RESOURCES LTD.

EAST BODO

PUBLIC INFORMATION PACKAGE

STRATHCONA RESOURCES LTD. 24 HOUR EMERGENCY LINE: 1.888.488.7190

Cactus Lake Field Office	Bus: 306.753.2906
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Strathcona Emergency Contacts

Merv Pond Operations Superintendent	Bus: 306.753.5242 Cell: 403.813.5658
Brandon Zerr Senior Foreman	Bus: 306.834.2859 Cell: 306.834.7434
Henry Goldstein Manager – HSER	Bus: 403.213.6862 Cell: 403.880.5126
Randy Gartner Senior H&S Advisor – Heavy Oil	Bus: 306.753.5246 Cell: 306.753.7463

Government Contacts

Alberta Energy Regulator (AER) Energy / Environmental Emergency & Operational Compliant Response Line	24 Hour: 800.222.6514
AER Bonnyville Field Centre	780.826.5352
RCMP - Provost	911 / 780.753.2215
MD of Provost	780.753.2434
Alberta Health Services	844.755.1788

Strathcona Resources Ltd.
1900, 421 7 Avenue SW, Calgary, AB T2P 4K9
Bus: 403.930.3000

POTENTIAL HEALTH IMPACTS

SULPHUR DIOXIDE (SO₂)

Sulphur dioxide (SO₂) is a by-product from the combustion of hydrogen sulphide (H₂S) and would only be present if the source of H₂S was ignited. In its normal state, SO₂ is heavier than air; however, during the combustion process, the hot gas is driven upwards in the thermal column resulting in rapid dispersion and low ppm (parts per million) values.

*ACUTE HEALTH EFFECTS OF SULPHUR DIOXIDE SO₂

Concentration	Effects
0.1 ppm	Transient bronchoconstriction in sensitive exercising individuals that ceases when exposure ceases.
0.3-1 ppm	Possibly detected by taste or smell.
0.75 ppm	Transient lung function changes in healthy, moderately exercising, non-asthmatic individuals.
1-2 ppm	Lung function changes in healthy non-asthmatics. Symptoms in asthmatics would likely increase in severity. There may be a shift to clinical symptoms from changes detectable only via spirometry.
3 ppm	Easily detected odour.
6-12 ppm	May cause nasal and throat irritation. Upper respiratory irritation, some nosebleeds.
20 ppm	Definitely irritating to the eyes; chronic respiratory symptoms develop; respiratory protection is necessary.
50-100 ppm	Maximum tolerable exposures for 30-60 minutes.
over 100 ppm	Immediate danger to life (NIOSH recommendation).

*Summarized from: Alberta Health Acute Exposure Health Effects of Hydrogen Sulphide and Sulphur Dioxide. For more details visit www.albertahealthservices.ca/assets/wf/eph/wf-eh-alberta-health-acute-exposurehealth-effects-of-hydrogen-sulphide-and-sulphur-dioxide.pdf

NOTES

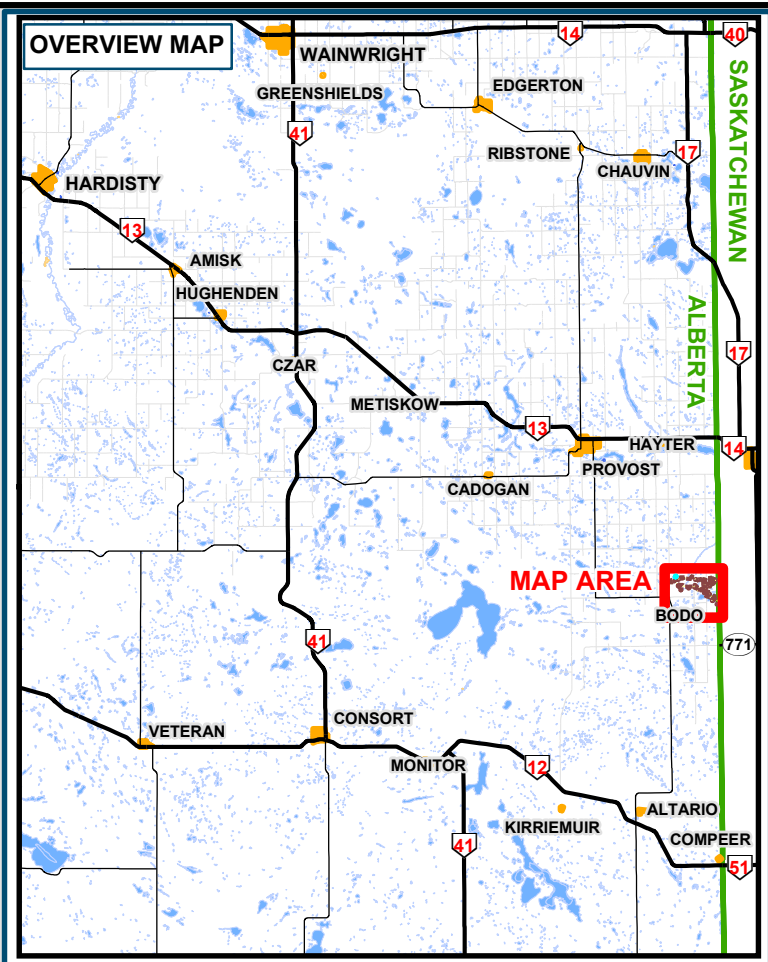
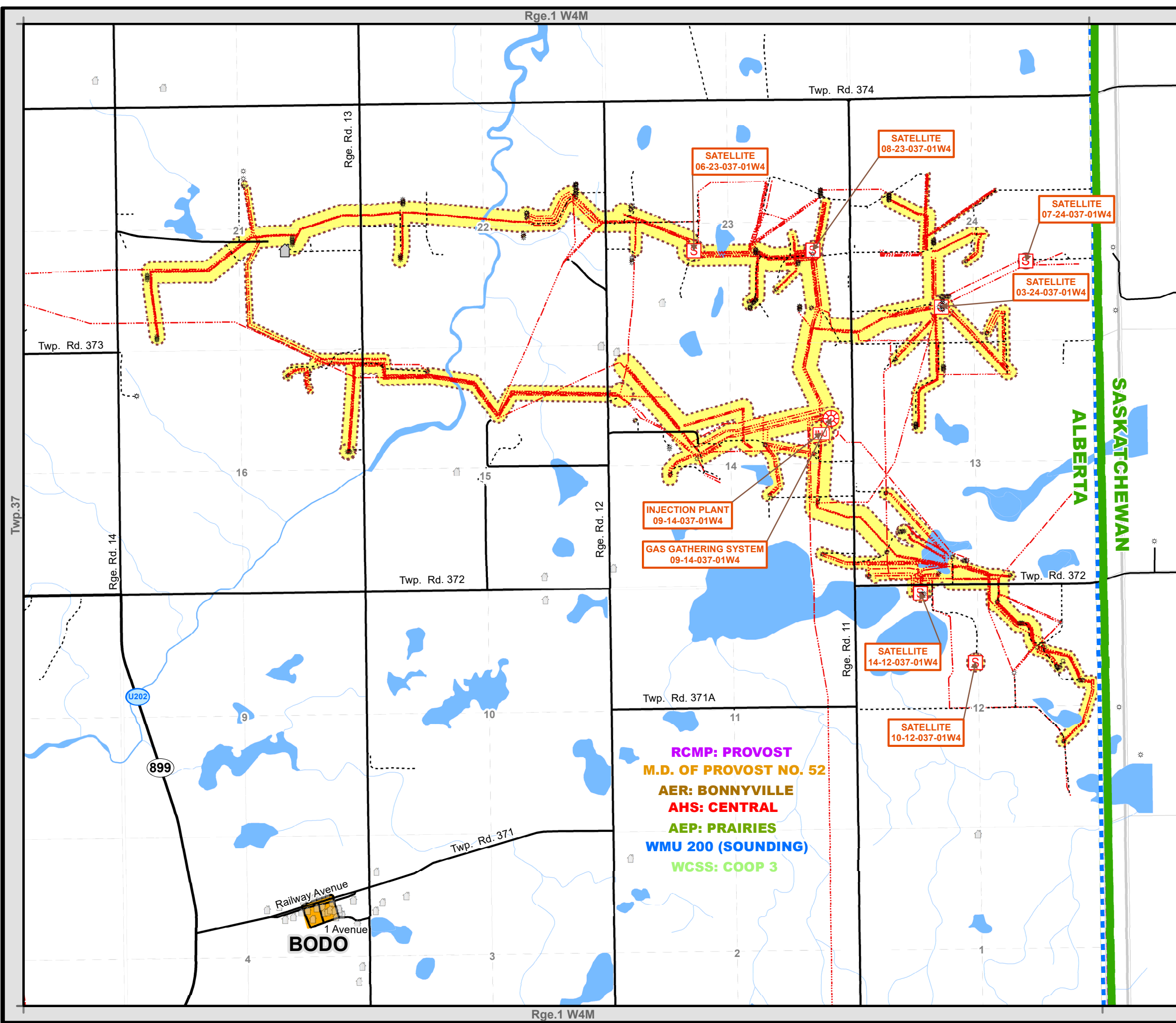
POTENTIAL HEALTH IMPACTS

HYDROGEN SULPHIDE (H₂S)

Hydrogen Sulphide (H₂S) is commonly found in conjunction with carbon dioxide, methane (natural gas) and other hydrocarbons in oil and gas fields. A mixture of such gases is called sour gas. Sour gas is hazardous because of the presence of H₂S. H₂S is a colourless gas at normal atmospheric temperatures and pressures. It has an offensive rotten egg smell that is readily detected at very low concentrations. At higher concentrations, it can be lethal.

*ACUTE HEALTH EFFECTS OF HYDROGEN SULPHIDE H₂S

Concentration	Effects
1 ppm	Noticeable odour. May temporarily experience mild discomfort, nausea, headache, and irritability. Asthma symptoms may worsen.
10-20 ppm	Obvious offensive odour. Eye irritation may occur and last several hours. Symptoms may include mild itchiness, dryness, increased blink reflex and slight watering. People may experience headache, nausea and vomiting. Asthma, bronchitis or other chronic respiratory disease may worsen.
50 ppm	Strong, intense offensive odour. May irritate eyes and breathing passages. Eyes may be itchy, stinging and red with increased blinking, tearing, and tendency to "rub" eyes. Respiratory irritation could present as "tingling" or stinging with increased tendency to "clear" throat, and cough. Pre-existing respiratory disease may worsen. No permanent injury expected unless exposure is prolonged. Odour-sensitive individuals may experience headache, nausea, vomiting and/or diarrhea.
100 ppm	Initial strong objectionable odour that lessens with prolonged exposure due to olfactory 'fatigue'. Eyes and breathing passages are often irritated within one hour of exposure. Eyes may be sore, stinging, burning, tearing, redness, swelling of eyelids, and possible blurred vision. Respiratory irritation may include sore throat, cough, soreness or stinging or breathing passages and wheezing. The symptoms of asthma, bronchitis or other forms of chronic respiratory disease will worsen, odour may cause headache, nausea, vomiting and diarrhea.
250 ppm	May be an odour present due to olfactory paralysis. Eyes and breathing passages will become irritated within minutes of exposure, and the irritation will worsen with longer exposure. The outer surface of the eyes and inner eyelid will be inflamed, red and sore. Eyes will begin watering and tearing immediately and vision may be blurred. Eyes may be permanently harmed with prolonged exposure. Respiratory irritation will include sore throat, cough, difficulty breathing, soreness of chest, and wheezing. Asthma symptoms will worsen. People may experience 'systemic' effects including headaches, nausea and vertigo depending on exposure.
500 ppm	Odour is not distinguishable due to olfactory paralysis. Severe irritation, and possibly injury, to the eyes and breathing passages within 30 minutes of exposure. Post-exposure chemical pneumonia' may appear due to damage to the lungs and the breathing passages if exposure is prolonged.
750 ppm	No odour due to olfactory paralysis. Central nervous system effects will be obvious and could include: anxiety, confusion, headache, slurred speech, dizziness, stumbling, loss of coordination and other signs of motor dysfunction. May lose consciousness, collapse suddenly and possibly die within exposure longer than a few minutes. Lung and breathing passage damage will likely cause 'chemical pneumonia among survivors
1000 ppm	Immediate "knock-down" and loss of consciousness. Death within moments to minutes. Immediate resuscitation and medical attention needed if victim is to survive.



Strathcona Assets	EPZ and Boundary Sets	Surface Developments
Well	Emergency Planning Zone (EPZ)	Residence
Pipeline	Egress	Other Building
Gas Plant	Populated Place	Highway
Battery	First Nation	Main Access Road
Compressor	Park / Rec Area	Access Road
Injection Plant	M.D. / County	Rail Road
Gas Gathering	RCMP	Watercourse / Waterbody
Water Disposal Facility	Health Authority	
Waste Plant	Energy Regulator	
Satellite	Environment	
Other Gas Plant		



EAST BODO AREA (AB)

PUBLIC INFORMATION HANDOUT BASE AREA MAP

Revision: June 2022
 Drawn By: PA
 Project No.: 13602
 Scale: 1:25,000
 Map Projection: NAD 83 UTM 12

Checked By: BM

0 0.25 0.5 1 1.5 2 km

BEHR
Integrated Solutions

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