TUNDRA OIL & GAS

Agriculture and Resource Development
Resource Development Division
360-1395 Ellice Avenue
Winnipeg, MB

May 26th, 2025

Attn: Petroleum Inspectors

RE: (16-28-002-28) 100.05-03-003-28 W1M Pierson New Battery Application – Flare Stack at Single Well Battery

As per subsection 75(1) of the *Drilling and Production Regulation* Tundra Oil & Gas Limited is applying to construct a new battery to be located at 16-28-002-28 W1M surface location. A vapour collection system complete with separator and flare is to be installed at this single well battery to control H2S odors, ensure ambient air quality off lease, and ensure worker safety. This well is a few miles from the nearest tie-in point and is likely to remain producing to a tank for several years. Please review the following application.

A) The application fee of $1,000 has been requested from our accounting department and will be submitted via electronic transfer with the project name attached.

B) The performance deposit for Tundra is currently topped up and up to-date.

C) A survey plan of the well site has been included in the application package.

C.1) The description of landowner consultation is attached in **Appendix A**. This appendix also includes the names and addresses for all the landowners and occupants within 1.5 km of the proposed battery. There were no objections received from the interested parties.

D) (16-28-002-28) 100.05-03-003-28, well license #12345, will be the only well that will produce to this battery.

E) This well expected to produce 10.0 m3/day oil, 15.0 m3/day water, and 0.10 e3m3/day gas. The well has a calculated GOR of 18. It is assumed that 100% of the gas will disperse in the separator and go to flare. A scrubber will be utilized to prevent odors when loading a truck to haul the fluid.

E.1) A gas analysis for a similar well in the same targeted reservoir as this drill has been attached. This was used as an analog for gas dispersion modeling.

F) Equipment specification.
- There will be a separator, 2 400bbl test tanks, and a flare stack with an integral knockout drum on site. The well will be electrified from a new service provided by MB Hydro.
- *The CRN and Serial numbers of the separator and flare stack will be forwarded to the Branch when they are acquired.*

- Separator Building Specs:
    - 12’ x 8.5’ building on a skid
    - Vessel is 5’ high x 28” OD. MAWP 500 PSI. 2 Phase separator
    - 2” Taylor PSV “G” orifice set at 500 PSI
    - MB CRN # TBD, SN# TBD
    - 3-way divert valve actuated for high level and high pressure
    - Scanner 2000 gas meter run with bypass
    - Nitrogen bottle
    - Building heater
    - Air compressor
- The flare stack is:
    - 3" dia. by 40' self-supported flare stack, Serial #TBD, mounted c/w the following:
        - Integral 24” diameter x 5’ knockout drum
        - hand winch to raise/lower stack c/w cable
        - 3" 150# Flame Arrestor
        - Electronic Ignition System (120V) with stand

G) This well will produce through the separator with a meter, and it is the only well producing to the tank, so it is tested daily.

G.1) Flare and vapour system. All gas broken out in the separator will be directed to flare on site through piping off the gas leg.

G.2) The results of the dispersion modelling for SO_2 included within **Appendix B.**

A comparable well in the same reservoir was used for modelling. All gas is being directed to the flare stack. As per the Dispersion Modeling Guidelines for Oil Batteries in the Province of Manitoba within Informational Notice 02-215 it is assumed that the combustion conversion of H_2S to SO_2 is 100% and the radiation heat loss is assumed to be 25%. Therefore, if 100% of the gas is collected and passes through the flare this location will be in compliance with ambient air quality for H_2S.

Air dispersion modeling for SO_2 was completed at expected production rates and show result of 42.52 µg/$m^{3.}$ These results are in compliance with regulations.

H) Plot Plan: a proposed plot plan has been included in the application package. Tundra will complete an as-built survey of the site and forward it when construction is complete. For site planning, we will ensure the tanks are 25 meters away from the wellhead and the flare is 25 meters away from the tanks and the wellhead.

I) A process flow diagram has been included in the application package.

K) The oil & water from this location will be hauled to the 04-01-002-28W1M battery where it will be processed. The water will be disposed of between the 100.01-02-002-28W1M and 102.01-11-002-28 W1M disposal wells.

If you have any additional questions, comments, or concerns please contact me at (204) 851-6229 or by email.

Sincerely,

Shelby Benko
Facilities E.I.T.
Tundra Oil & Gas
295 3rd Ave.
Virden, Manitoba R0M 2C0
shelby.benko@tundraoilandgas.com

PLAN SHOWING SURVEY OF WELL SITE

TUNDRA PIERSON HZNTL 5-3-3-28WPM

Surface Location In

LS 16C Sec 28 Twp 2 Rge 28WPM

Bottom Hole L1 In

LS 5D Sec 3 Twp 3 Rge 28WPM

Bottom Hole L2 In

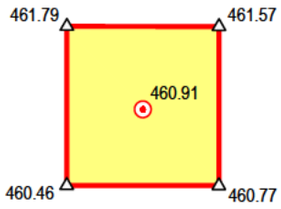
LS 6C Sec 3 Twp 3 Rge 28WPM

Municipality Of Two Borders

COORDINATES

Wellbore	Boundary	Rectangular	Geographic (CSRS)		UTM (CSRS) Zone 14	
			NAD 83	NAD 27	NAD 83	NAD 27
Surface 16C-28	60.00 S, 340.00 W } Reference: North East Section 28-2-28WPM		49°09'41.37" Lat 101°09'55.85" Long	49°09'41.32" Lat 101°09'54.27" Long	5447665.87 N 342126.88 E	5447444.59 N 342153.84 E
Landing Point 2A-33	94.91 N, 501.91 W } Reference: South East Section 33-2-28WPM	185.25 N, 161.81 W } of Surface	49°09'47.36" Lat 101°10'03.84" Long	49°09'47.32" Lat 101°10'02.26" Long	5447855.64 N 341970.47 E	5447634.37 N 341997.43 E
Inflection 2C-33	250.93 N, 747.16 W } Reference: South East Section 33-2-28WPM	341.51 N, 406.97 W } of Surface	49°09'52.42" Lat 101°10'15.94" Long	49°09'52.38" Lat 101°10'14.36" Long	5448018.82 N 341729.92 E	5447797.56 N 341756.88 E
Bottom Hole L1 5D-3	737.53 N, 295.59 E } Reference: South West Section 3-3-28WPM	2555.92 N, 1385.52 W } of Surface	49°11'04.09" Lat 101°11'04.27" Long	49°11'04.05" Lat 101°11'02.68" Long	5450259.94 N 340815.23 E	5450038.77 N 340842.27 E
Side Track 2A-33	105.65 N, 518.78 W } Reference: South East Section 33-2-28WPM	196.00 N, 178.67 W } of Surface	49°09'47.71" Lat 101°10'04.67" Long	49°09'47.67" Lat 101°10'03.09" Long	5447866.87 N 341953.92 E	5447645.60 N 341980.88 E
Bottom Hole L2 6C-3	737.64 N, 459.53 E } Reference: South West Section 3-3-28WPM	2556.02 N, 1221.58 W } of Surface	49°11'04.10" Lat 101°10'56.17" Long	49°11'04.05" Lat 101°10'54.58" Long	5450255.36 N 340979.09 E	5450034.19 N 341006.13 E

GROUND ELEVATIONS



CE 461

AREAS

	Location	Hectares	Acres
Well Site	NE28	1.265	3.13
Work Space	NE28	0.175	0.43

LICENCING

The proposed surface:	Yes	No
Is at least 45m from any surveyed road	■	□
Is at least 75m from any surface improvement other than a well, flowline or road allowance[1]	□	■
Is at least 100m from any water covered area	■	□
Is at least 200m from any occupied dwelling, public facility or urban centre	■	□

Additional Information:

Is at least 6.0km from the centre of an aerodrome subject to an Airport Zoning Regulation	■	□

Proximities:

[1]Buried Telecom

+/-1370m from the nearest occupied dwelling (NW 33-2-28WPM)

+/-6.8km from the nearest urban centre (Pierson)

LANDOWNERS

NE Sec 28 Twp 2 Rge 28WPM

Title No: 2719528/2

Owner(s): Darren Wade Mayes

MANITOBA LAND SURVEYOR'S CERTIFICATION

I Brendan L. Wood, Manitoba Land Surveyor certify that the survey represented by this plan is correct and true to the best of my knowledge and was completed on the 8th day of January, 2025.

This is a copy of an original plan, signed and sealed by Brendan L. Wood, Manitoba Land Surveyor, on January 21st, 2025.
The original plan is held on file in the office of Caltech Manitoba Land Surveying Inc.
This copy has been prepared for distribution via electronic and other means.
Should there be a discrepancy between this document and the original document, the signed, sealed original shall govern.

[redacted]

Brendan L. Wood

ASSOCIATION OF MANITOBA LAND SURVEYORS
PERMIT
CALTECH MANITOBA LAND SURVEYING INC.
No. 2017-9

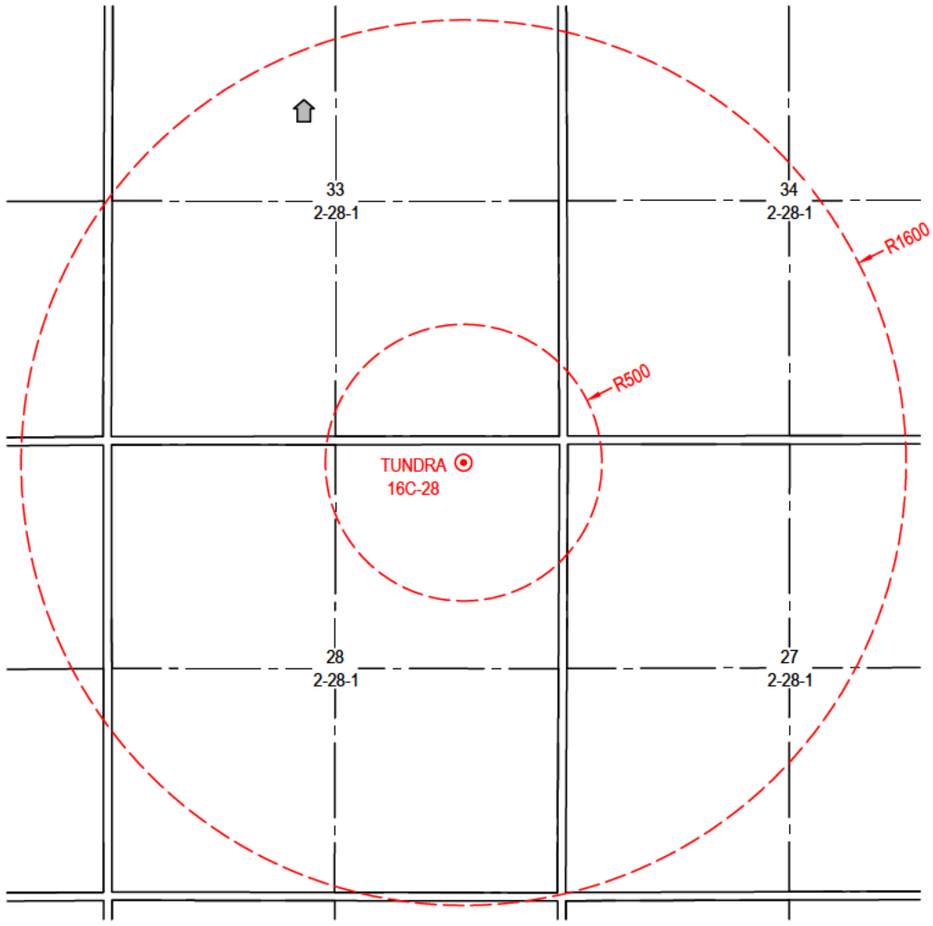
OPERATOR

TUNDRA OIL & GAS

REVISION TABLE

Rev.	Date	Description	CA/DR/QA
0	2025.01.21	Issued	--/BM/SB

RESIDENCE SKETCH – SCALE 1:25000



Legend

- Proposed Surface
- Occupied Residence
- Unoccupied Residence
- Public Facility

Information beyond outer radius circle not shown

LEGEND

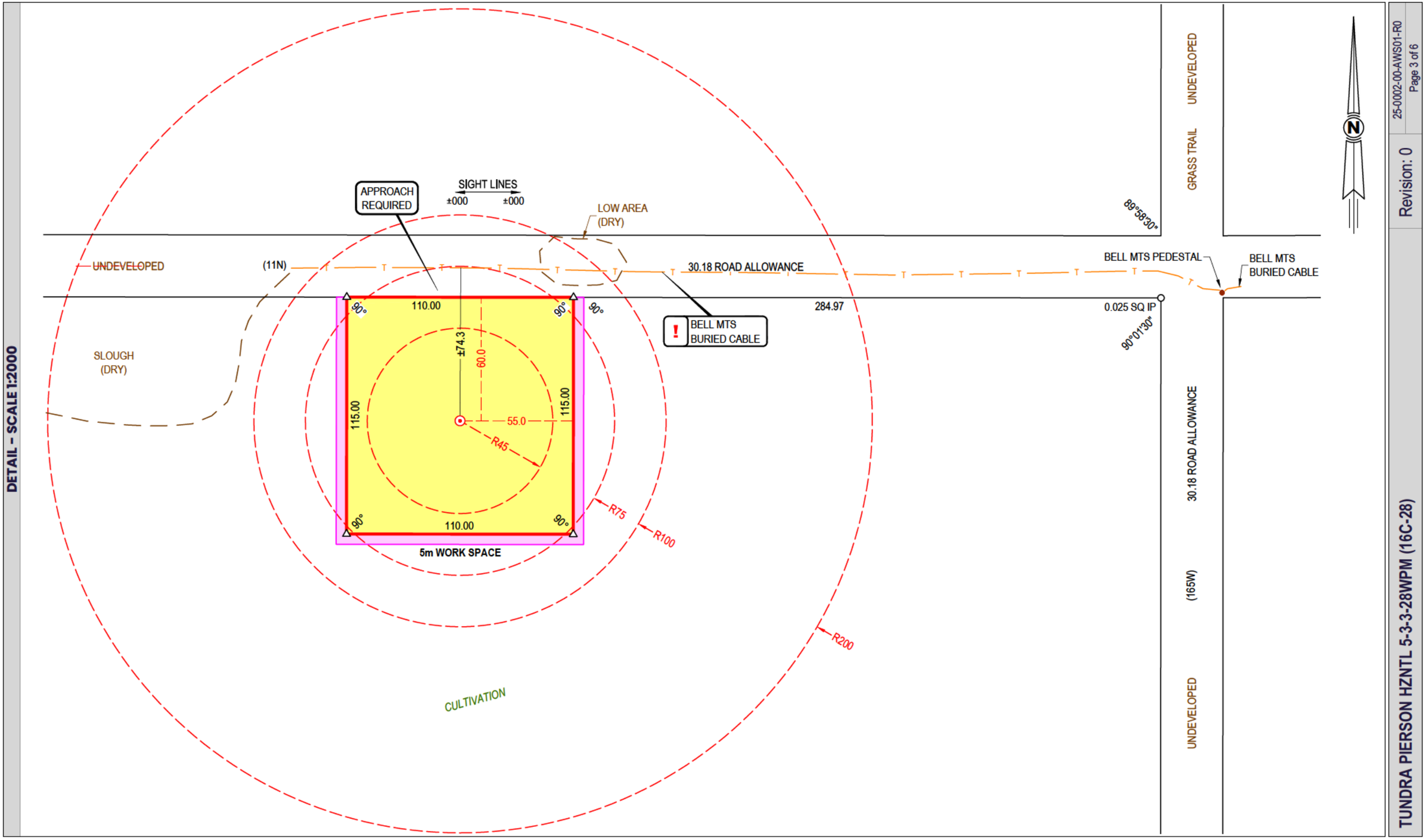
Proposed Area	Survey Monument (Found / Planted)	Buried Low Pressure Gas Utility	Flare Stack
Existing Area	0.013 Iron Post (Found / Planted)	Buried Telephone Line	Sign
Temporary Work Space	Hub	Buried Fibre-optic Line	Pedestal / Bollard
Proposed Surface	Non-monumented Point	Buried Water Line	Culvert
Proposed Drill Path Point	Berm / Slope	Overhead Powerline	Bridge
Well Location	Fence	Bush / Tree Line	Water Well
Active Well	Buried Pipe	Power / Light / Utility Pole	Riser
Abandoned Well	Above Ground Pipe	Anchor	PigTrap
Existing Drill Path Point	Buried Power Cable	Electrical Box	Flange
Proposed Drill Path	Buried Cathodic Protection	Bore / Piezometer	Valve
Planned Drill Path		Tower	Lost Signal
As-Drilled Drill Path			

NOTES

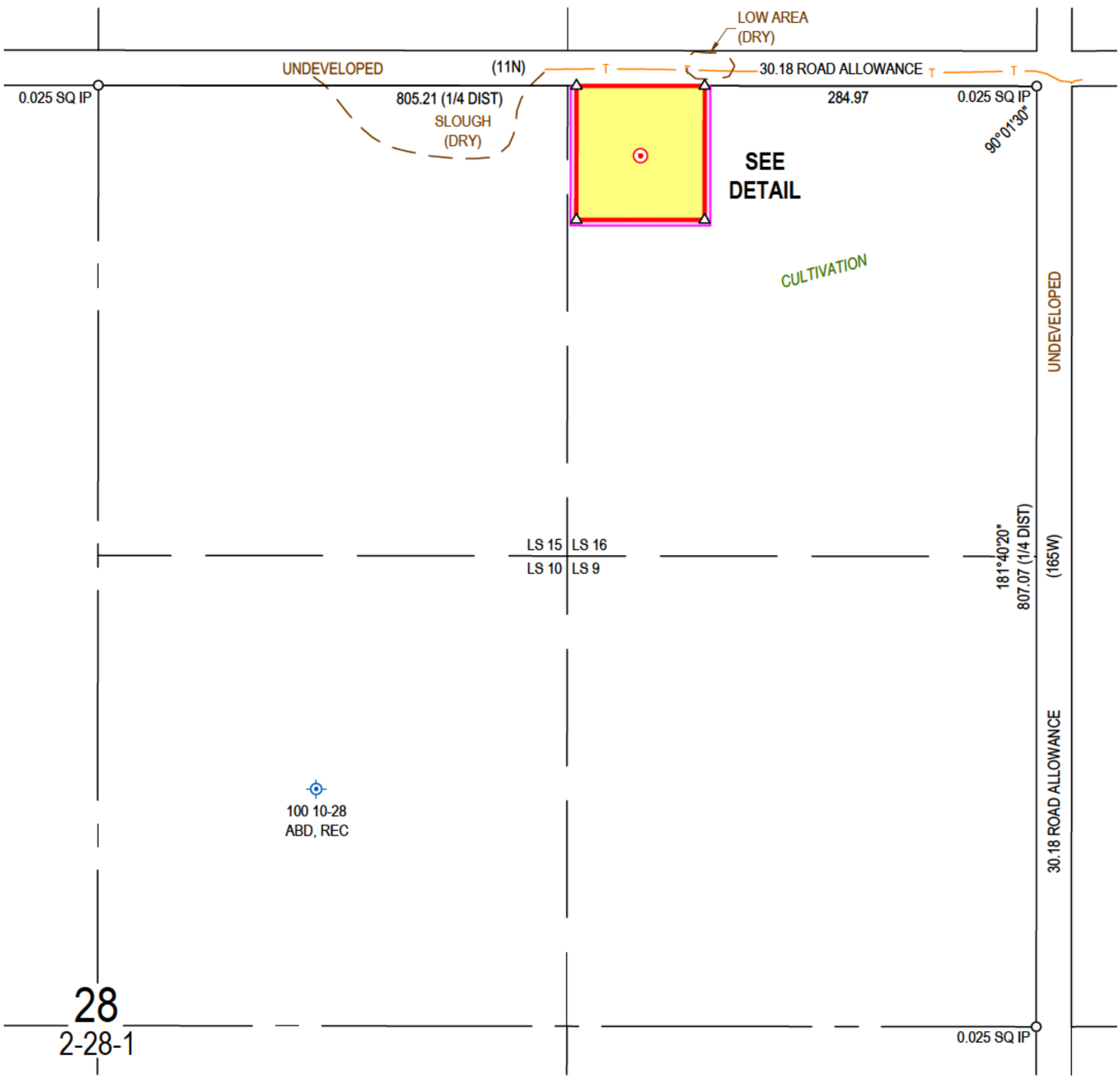
Geodetic Datum: CGVD2013/NAD83(CSRS) Precise Point Positioning
Scale: 1:5000 (unless otherwise stated).
Distances are ground and in metres and decimals thereof.
Bearings shown are UTM Grid, NAD83 (CSRS) Reference Meridian 99° (Zone 14) unless otherwise shown and are derived from GNSS observations.
Rectangular and Cartesian coordinates are True North.
To obtain True North bearings apply Convergence at Surface: -1°38'20"

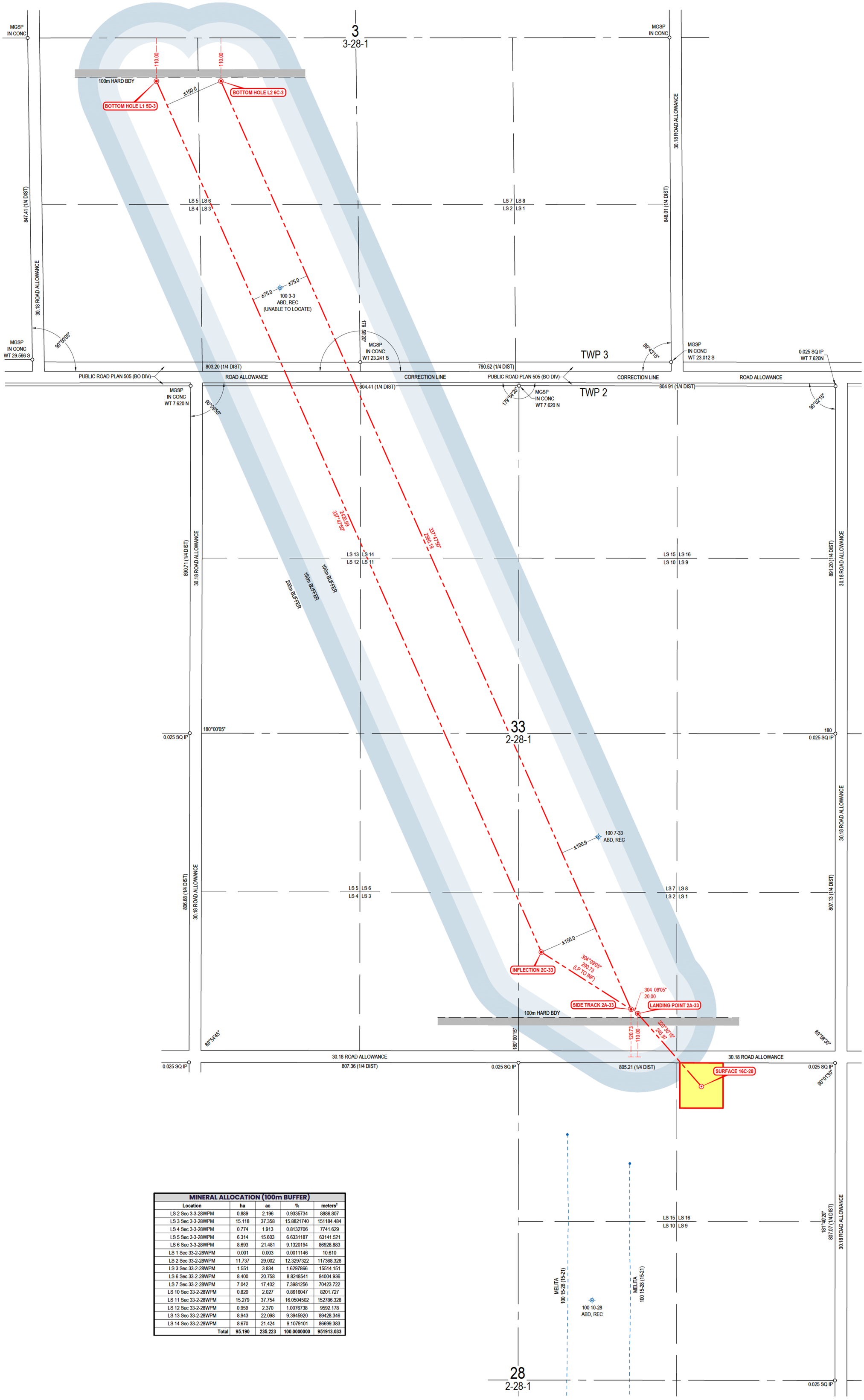
Surrounding information provided by NRND/IHS, Caltech assumes no responsibility for the accuracy of the data provided.
All plans referred to are on record in the Brandon Land Titles Office.

Due to the limitations of the electronic devices used to locate underground facilities, it should not be assumed that the locations and/or depths shown on this plan of survey are exact or that all underground facilities are shown. Caltech and any of its employees take no responsibility for the accuracy of the underground facilities shown and all underground facilities should be located by the respective authorities prior to construction.
Contact Click Before You Dig MB before digging 1-800-940-3447.


DETAIL - SCALE 1:2000
APPROACH REQUIRED
SIGHT LINES
±000
±000
LOW AREA
(DRY)
89°58'30"
GRASS TRAIL
UNDEVELOPED
UNDEVELOPED
(11N)
30.18 ROAD ALLOWANCE
BELL MTS PEDESTAL
BELL MTS
BURIED CABLE
284.97
0.025 SQ IP
90°01'30"
BELL MTS
BURIED CABLE
SLOUGH
(DRY)
90°
110.00
90°
90°
±74.3
60.0
115.00
115.00
55.0
R45
90°
110.00
90°
5m WORK SPACE
R75
R100
R200
CULTIVATION
30.18 ROAD ALLOWANCE
(165W)
UNDEVELOPED
N
25-0002-00-AWS01-R0
Page 3 of 6
Revision: 0
TUNDRA PIERSON HZNTL 5-3-3-28WPM (16C-28)

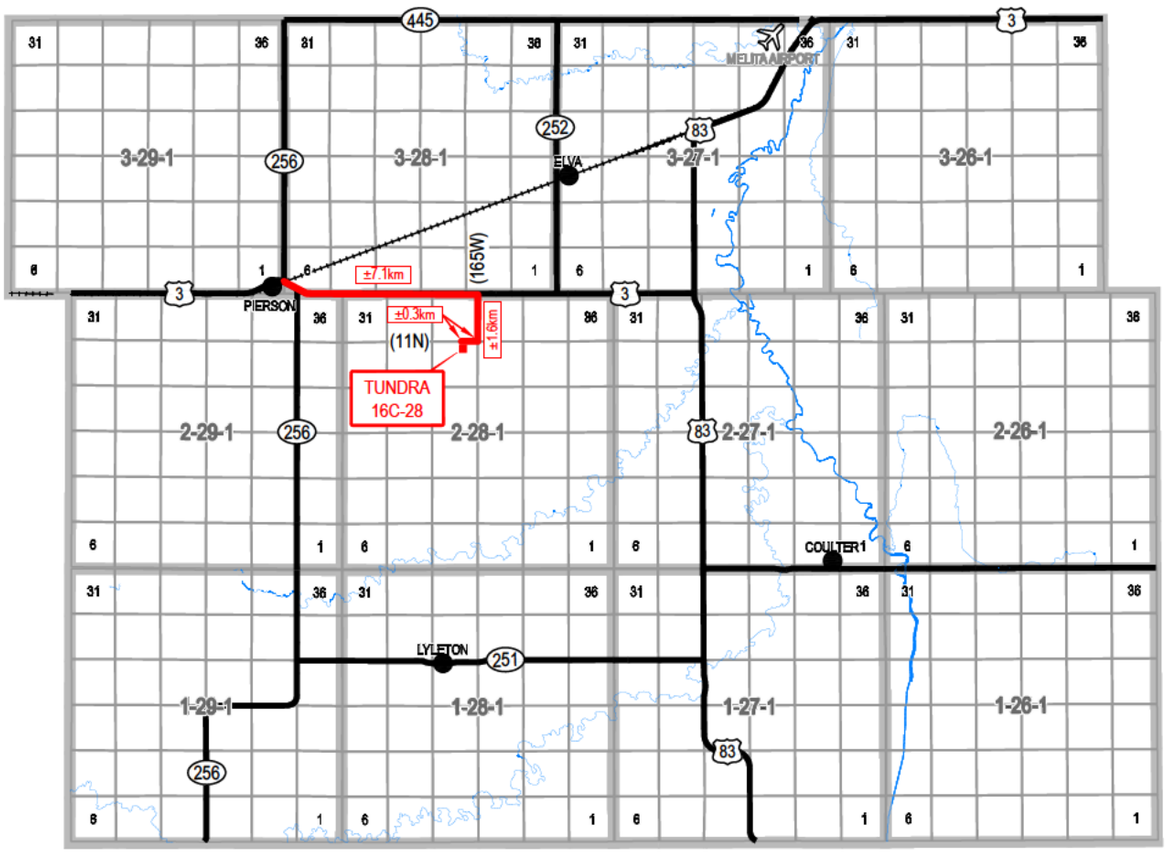
SURFACE - SCALE 1:5000





MINERAL ALLOCATION (100m BUFFER)				
Location	ha	ac	%	meters²
LS 2 Sec 3-3-28WPM	0.889	2.196	0.9335734	8886.807
LS 3 Sec 3-3-28WPM	15.118	37.358	15.8821740	151184.484
LS 4 Sec 3-3-28WPM	0.774	1.913	0.8132706	7741.629
LS 5 Sec 3-3-28WPM	6.314	15.603	6.6331187	63141.521
LS 6 Sec 3-3-28WPM	8.693	21.481	9.1320194	86928.883
LS 1 Sec 33-2-28WPM	0.001	0.003	0.0011146	10.610
LS 2 Sec 33-2-28WPM	11.737	29.002	12.3297322	117368.328
LS 3 Sec 33-2-28WPM	1.551	3.834	1.6297886	15514.151
LS 6 Sec 33-2-28WPM	8.400	20.758	8.8248541	84004.936
LS 7 Sec 33-2-28WPM	7.042	17.402	7.3981256	70423.722
LS 10 Sec 33-2-28WPM	0.820	2.027	0.8616047	8201.727
LS 11 Sec 33-2-28WPM	15.279	37.754	16.0504502	152786.328
LS 12 Sec 33-2-28WPM	0.959	2.370	1.0076738	9592.178
LS 13 Sec 33-2-28WPM	8.943	22.098	9.3945920	89428.346
LS 14 Sec 33-2-28WPM	8.670	21.424	9.1079101	86699.383
Total	**95.190**	**235.223**	**100.0000000**	**951913.033**

ACCESS ROUTE SKETCH – SCALE 1:250000



AGAT Laboratories

GAS ANALYSIS

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
07000779A					25GS259248A

Operator Name	Sampling Point	Unique Well Identifier
TUNDRA OIL & GAS LIMITED	WELLHEAD CASING	100/07-10-003-28W1/02

Well Name	Well License	Well Status	Well Fluid Status	LSD
TUNDRA PIERSON HzNTL 7-10-3-28	10819			08-09-003-28W1

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
PIERSON	MISSION CANYON 3A	AGAT/ESTEVAN	KJ

Test Interval (mKB) From :	To:	Test Type	Test No.	Elevation (m) KB	GRD	Pressure (kPa) Source	Received	Temperature (°C) Source	Received
				467.80	463.70	90	60	6	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Mar 18, 2025	Mar 19, 2025	Mar 25, 2025	Mar 25, 2025	Calgary - Mukhinderjeet Kaur - Reporter

Other Information : FIELD H2S BY TUT= 2.7010% ; LAB H2S BY GC= 0.5366 %

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0001	0.0001		
He	0.0005	0.0005		
N_2	0.1494	0.1564		
CO_2	0.0178	0.0000		
H_2S	0.0270	0.0000		
C_1	0.3327	0.3482		
C_2	0.1291	0.1352	458.8	
C_3	0.1675	0.1754	615.5	
iC_4	0.0291	0.0305	127.1	
nC_4	0.0843	0.0883	354.7	
iC_5	0.0242	0.0253	118.1	
nC_5	0.0271	0.0284	131.1	
C_6	0.0086	0.0090	47.2	
C_7+	0.0026	0.0027	16.1	
TOTAL	1.0000	1.0000	1868.6	

WDMS Data Verification Check

Exceeds normal limits: IC5, NC5, N2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross: Air Free as Received	Gross: Moisture & Acid Gas Free	Gross: C_7+ Moisture Free	Net: Air Free as Received	Net: Moisture & Acid Gas Free
61.44	63.64	0.54	**55.90**	57.91

Calculated Density

Relative: Moisture Free As Received	Relative: Moisture & Acid Gas Free	Relative: C_7+ Moisture Free	Absolute: C_7+ Density (kg/m³)	Absolute: Total Sample Density (kg/m³)
1.167	1.160	3.478	688.8	1.429

Calculated Pseudo Critical Properties

As Sampled: pPc (kPa)	As Sampled: pTc (K)	Acid Gas Free: pPc (kPa)	Acid Gas Free: pTc (K)
4384.8	276.5	4198.6	273.2

Hydrogen Sulfide (H_2S) (ppm)

Field Value: Stain Tube	Field Value: Tutweiler	Laboratory Value: Other	Laboratory Value: GC-SCD	g/m³
	27010			38.84

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
33.8	100.7

Calculated Vapour Pressure

106.30 *C_5+ (kPa)*

Gas Compressibility

0.9864 *@15 °C & 101.325 kPa*

.

Results relate only to items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.

View or download your data online at webfluids.agatlabs.com

Battery Application (16-28-002-28) 100.05-03-002-28W1
Appendix B- Gas Dispersion Modelling

Screen3 Calculator Assumptions							
Company	**Tundra Oil &Gas**			**Date Reviewed**	**20-May-25**		
Facility	**(16-28-2-28) 100.5-3-3-28**			**Name**	**S. Benko**		
RED are inputs							
Oil (m3)	10			Treater	Flare	Tank Vent	
H20 (m3)	15		% volume of total	0	100	0	100
GOR (m3/m3)	18		m3	0	180	0	180
Total Gas=	**180** m3						
Mole Fraction	0.027		Date of test	18-Mar-25			
	Treater		Flare		Tank Vent		
Vent Height (m	4.5	Vent Height (m)	12.2	Vent Height (m	10		
Stack ID (m)	0.4573	Stack ID (m)	0.0762	Stack ID (m)	0.0762		
	point		point		point	Source	
RESULTS							
Flare							
Vent stack Exit Flow Rate		0.000056250	m3/s				
Emission Rate	H2S	0.081079313	g/s				
	SO2	0.152407688	g/s				
Vent stack area		0.004560233	m2				
Vent stack exit velocity		0.45684802	m/s				

Sour Gas Flare Properties

Company	Tundra Oil & Gas
Facility	(16-28-2-28) 100.5-3-3-28 Wellhead
Case	Solution Gas

Flow Rate

Gas Stream	flare	scrubber	total gas	
Flow Rate	0.180	0.000	0.180	10^3 m³/d at 15°C and 101.3 kPa
Percentage	100.0	0.0	100.0	%
Reference Temp	15	15	15	°C

Composition (dry)

H_2	0.0001		0.0001	Mole Fraction
He	0.0005		0.0005	
N_2	0.1494		0.1494	
CO_2	0.0178		0.0178	
H_2S	0.0270		0.0270	
C_1	0.3327		0.3327	
C_2	0.1291		0.1291	
C_3	0.1675		0.1675	
iC_4	0.0291		0.0291	
nC_4	0.0843		0.0843	
iC_5	0.0242		0.0242	
nC_5	0.0271		0.0271	
C_6	0.0086		0.0086	
C_7+	0.0026		0.0026	
Total	1.0000	0.0000	1.0000	

Gas Stream Properties

Molecular Mass	33.79	0.00	33.79	kg/kmole
Net Heating Value	55.90	0.00	55.90	10^3 m³/d at 15°C and 101.3 kPa
Net Heat Release Rate	27,815	0	27,815	cal/s
Equivalent SO_2 Inlet	0.013	0.000	0.013	t/d
Equivalent SO_2 Inlet	0.15	0.00	0.15	g/s

Stack Parameters

Flare Stack Height	12.2	m	
Flare Stack Diameter	76.20	mm	
Actual Exit Velocity	0.46	m/s	
Length of Flame:	0.77	m	
Heat Intensity at Base	1.05	kW/m²	Background = 1.04 kW/m²
Conversion Efficiency	100.00	%	
Radiation Loss	25	%	(Brode => 55%, AENV => 25%)
Sensible Heat Release	20,861	cal/s	Based on conversion efficiency & radiation loss

Model Input Parameters

Effective Stack Height	12.81	m	(per EPA and Beychok,M.; 1979)
Pseudo-diameter	**0.944**	**m**	based on actual exit velocity
Actual Exit Velocity	0.46	m/s	
Exit Temperature	1273	K	1000 °C
Ambient temperature	288	K	Pseudo temperature for modelling

Emissions

SO_2 Emission	0.152	g/s	Based on user-specified conversion efficiency
H_2S Emission	0.000	g/s	Based on user-specified conversion efficiency
NO_x Emission	0.003	g/s	Based on US EPA AP-42

RWDI West Inc.
Consulting Engineers
1800, 840-7th Avenue S.W.
Calgary, Alberta, T2P 3G2

Tel: (403) 232-6771
Fax: (403) 232-6762
Email: info@rwdiwest.com
Website: www.rwdiwest.com

Model Results:

05/21/25

*** SCREEN3 MODEL RUN ***

*** VERSION DATED 13043 ***

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = FLARE

EMISSION RATE (G/S) = 0.152408

FLARE STACK HEIGHT (M) = 12.2000

TOT HEAT RLS (CAL/S) = 20861.0

RECEPTOR HEIGHT (M) = 0.0000

URBAN/RURAL OPTION = RURAL

EFF RELEASE HEIGHT (M) = 12.7292

BUILDING HEIGHT (M) = 0.0000

MIN HORIZ BLDG DIM (M) = 0.0000

MAX HORIZ BLDG DIM (M) = 0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.

THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 0.346 M**4/S**3; MOM. FLUX = 0.211 M**4/S**2.

*** FULL METEOROLOGY ***

****

*** SCREEN AUTOMATED DISTANCES ***

****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
1.	0.000	1	1.0	1.0	320.0	22.23	0.62	0.49	NO
100.	36.58	1	1.0	1.0	320.0	22.23	26.99	14.21	NO
200.	41.86	3	1.0	1.0	320.0	22.16	23.77	14.29	NO
300.	37.44	3	1.0	1.0	320.0	22.16	34.40	20.51	NO
400.	37.11	4	1.0	1.0	320.0	22.05	29.57	15.50	NO
500.	34.29	4	1.0	1.0	320.0	22.05	36.24	18.49	NO
600.	30.04	4	1.0	1.0	320.0	22.05	42.80	21.38	NO
700.	25.92	4	1.0	1.0	320.0	22.05	49.26	24.18	NO
800.	22.34	4	1.0	1.0	320.0	22.05	55.64	26.91	NO
900.	19.34	4	1.0	1.0	320.0	22.05	61.94	29.59	NO
1000.	16.86	4	1.0	1.0	320.0	22.05	68.18	32.20	NO
1100.	14.94	4	1.0	1.0	320.0	22.05	74.36	34.23	NO
1200.	13.34	4	1.0	1.0	320.0	22.05	80.48	36.19	NO
1300.	13.28	6	1.0	1.1	10000.0	29.29	43.30	17.14	NO
1400.	13.44	6	1.0	1.1	10000.0	29.29	46.29	17.90	NO
1500.	13.46	6	1.0	1.1	10000.0	29.29	49.26	18.64	NO
1600.	13.39	6	1.0	1.1	10000.0	29.29	52.21	19.37	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1. M:

220. 42.52 3 1.0 1.0 320.0 22.16 26.03 15.60 NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

****

*** SUMMARY OF SCREEN MODEL RESULTS ***

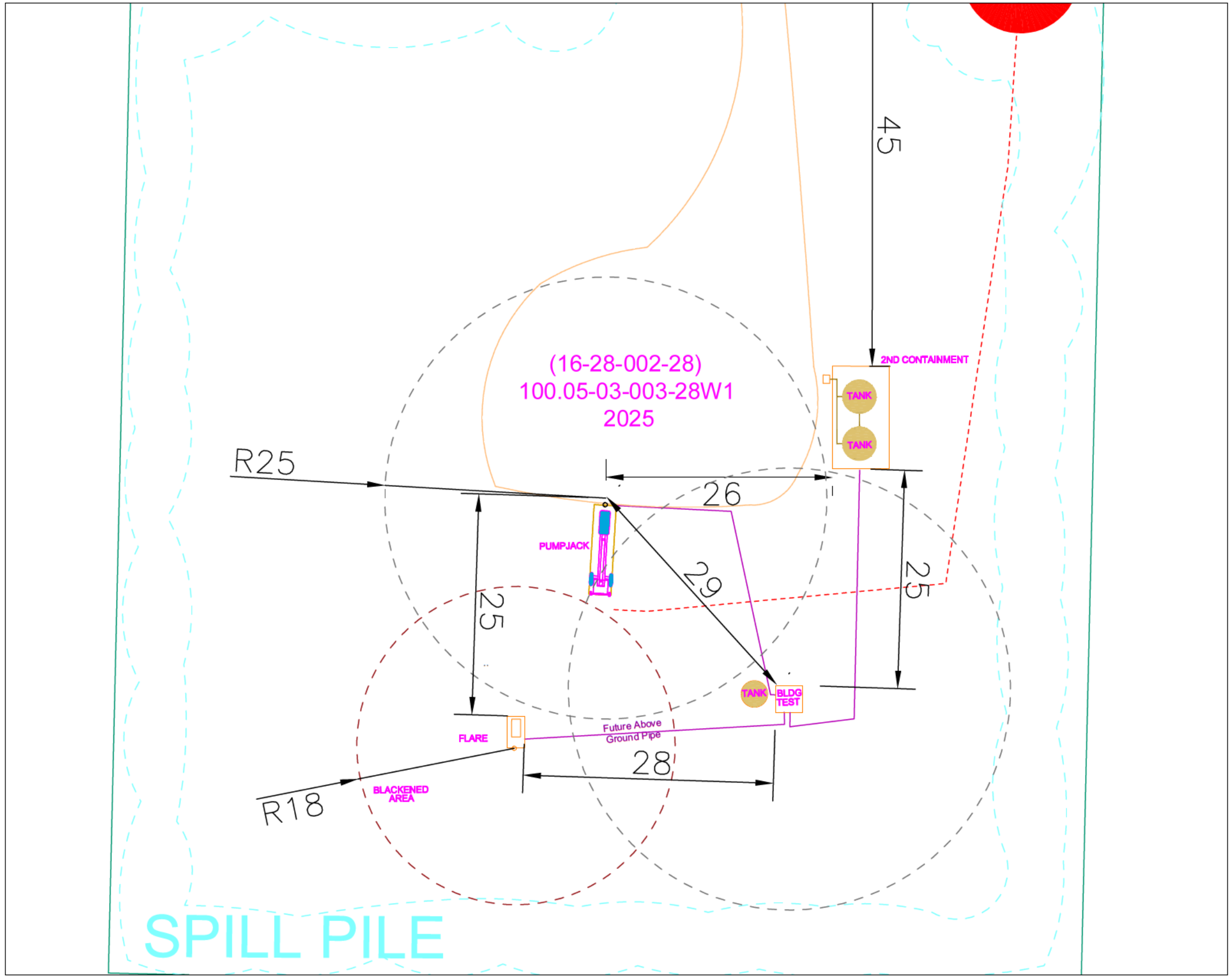
****

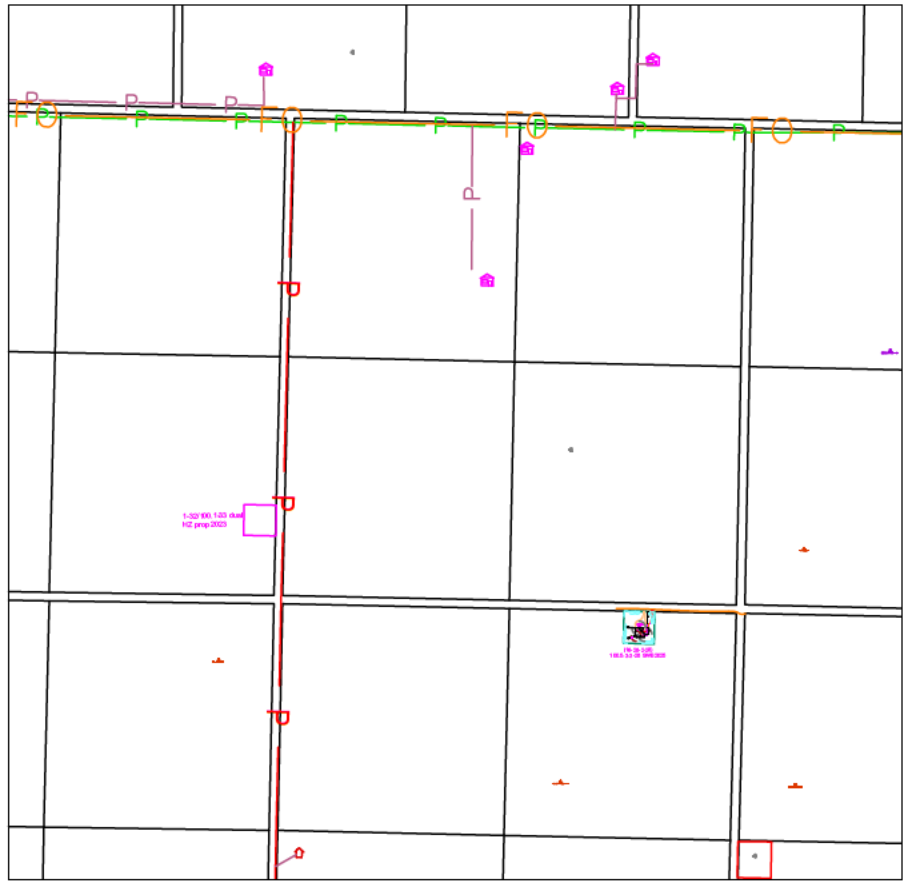
CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	42.52	220.	0.

****

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

****





REV	DESCRIPTION	BY	DATE	CHK	APP
0	ISSUED FOR REVIEW	SB	21MAY2025	–	–

REFERENCE DRAWING
–

TUNDRA OIL AND GAS LTD.
(16-28-002-28) 100.05-03-003-28

SWB LAYOUT
PLOT PLAN

DRAWN BY:	SCALE:	AFE:	DRAWING NUMBER:	REV NO:
SB	NTS	TBA	16-28-002-28-SWB-PLT-4000	0

TK–1300	BH–1250	V–1200	K–600	TK–100	TK–101	FS–1300
100BBL POP TANK	BUILDING HEATER	TEST SEPARATOR	AIR COMPRESSORS	OIL TANK	OIL TANK	FLARE STACK
MANU: ARCRITE WELDING S/N: AKS 390 SIZE: 9'ø x 8' HIGH DESIGN PRESSURE: 16oz YEAR: 2023	MAKE: RUFFNECK MODEL NO.: S/N: 600V/3P/60Hz	MAKE: EAGLE OILFIELD SERVICES M.A.W.P: 500PSI @ 130°F CRN#: TBD S/N: TBD YEAR: TBD	MANU: SANDBORN CAPACITY: 20 GALLON 2HP @ 1740RPM 575v/3p/60Hz	CAPACITY: 400BBL SIZE: 12'ø x 20' S/N: TBD YEAR: TBD DP: ATMOSPHERE	CAPACITY: 400BBL SIZE: 12'ø x 20' S/N: TBD YEAR: TBD DP: ATMOSPHERE	EOS 3" X 40' SELF–SUPPORTED FLARE STACK C/W IKO PACKAGE ELECTRONIC IGNITION SYSTEM 3" 150# TORNADO DETONATION ARRESTOR

H2S

BATTERY BACKUP

ELECTRICAL PANEL

BH–1250
BUILDING HEATER

TK–1300
POP TANK

LSH 1300

TC 1250

NITROGEN

60X60 SET @ 3447 kPa G ORIFICE

PSV 1200

FE 1200

NC

TI

VENT

SIGMA VALVE MANUAL RESET RELAY

EY 1300

LSH 1200

PSH 1200

SET AT 320 PSI

PI

V–1200

LC 1200

LCV 1200

PCV 1201

PCV 1200

SET AT 138 kPag

LG

FAIL TO DIVERT

FCV 1200

FCV 1300

H2S

AIT 1200

AE 1200

2" STEEL EMULSION FROM 100.05–03–003–28 WELL

K–600

N2 BOTTLE

PCV

SET AT 1034 kPa

PSV 600

RUN STATUS

START 80PSI STOP 90PSI

PSL 600

VENT OUTSIDE

M 1200

SLOPE DO NOT POCKET

25HP

FA 1300

TSL 1300

LSHH 1310

IGNITOR PANEL 120V

FS–1300
FLARE STACK

GAS SCRUBBER

TK–100

TK–101

114

EQ

SECONDARY CONTAINMENT

REV	DESCRIPTION	BY	DATE	CHK	APP
0	ISSUED FOR REVIEW	SB	21MAY2025		

REFERENCE DRAWING: –

NOTES:

TUNDRA OIL & GAS

DALY
16–28–002–28W1M

PROCESS & INSTRUMENTATION DIAGRAM
SINGLE WELL BATTERY

DRAWN BY:	SCALE:	AFE:	DRAWING NUMBER:	REV NO:
SB	NTS	TBA	16–28–002–28–PID–1200	0

T:\Facilities\Public\14. South Man\Pierson\4–1–2–28 Battery\9. Wells\2–28\16–28–002–28W1\Proposed– 100.5–3–3–28 2025\4. Drawings\3. P&IDs\16–28–002–28–PID–1200–Rev0–SWB.dwg
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