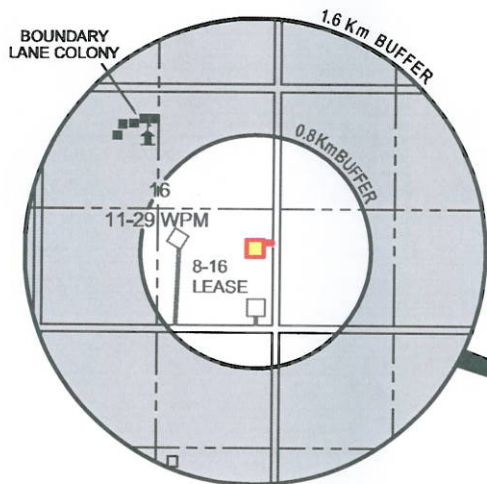


T. Bird Oil Ltd. Kirkella
08-16-11-29 WPM
Battery Application

Submitted By: Tom Copeland

Appendix 'A' Survey Plan

T. BIRD ET AL SOUTH KIRKELLA 8-16-11-29WPM
WELL SITE AND ACCESS ROAD
WELL SITE SURFACE LOCATION
LSD. 8A - SEC. 16 - TWP. 11 - RGE. 29WPM
R.M. of WALLACE



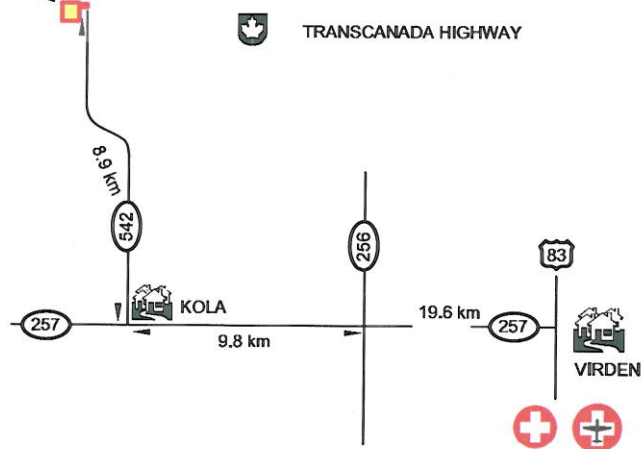
ROUTE MAP
NOT TO SCALE

LEGEND

- HOSPITAL
- LIFE FLIGHT EMERGENCY SERVICE
- SECONDARY HIGHWAY
- PRIMARY HIGHWAY
- MUNICIPAL ROAD
- TRANSCANADA HIGHWAY

RESIDENCE SKETCH

- RESIDENCE
- SCHOOL
- ABANDONED RESIDENCE



LEGEND:

Distances are in metres. SCALE: 1:5000

Portions referred to shown thus:

Legal Survey Posts (found / placed)

Planted Wood Hub

Fence Lines

Oil / Gas Lines

Overhead Power Lines

Buried Power Cables

Buried Telecom Cables

Bush

Low Area / Slough

Water Covered Area

Surveyed Well Centre

Standing Well

Producer

Abandoned Producer

Abandoned Dry

Injection Well

Injection Well (Former Producer)

Abandoned Water Injection

Abandoned Water Injection (Former Producer)

Salt Water Disposal

Salt Water Disposal (Former Producer)

Abandoned Salt Water Disposal

Abd. Salt Water Disposal (Former Prod.)

Dual Completion

Abandoned Dual Completion

Junked and Abandoned

Surface Location - Horizontal / Directional / Slant

Water Supply Well

Abandoned Water Supply Well

Abandoned Structure Test Hole

OPERATOR:

T. BIRD OIL LTD.



WELL LICENCE INFORMATION
THE PROPOSED WELL CENTRE IS:

- | | | |
|---|-------------------------------------|--------------------------|
| | YES | NO |
| -At least 1.5 km from the Corporate Limits of a City, Town or Village | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| - At least 75m from any shoreline | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -At least 75m from any Surface Improvements | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -At least 45m from any surveyed road | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -At least 75m from any aircraft runway or taxiway | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -At least 75m from any water well | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Approximately 7.9 km from the nearest urban centre (Kola) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| -Approximately 1.2 km from the nearest residence (NW¼ 16-11-29) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

FACILITIES SHOWN ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. PRIOR TO ANY CONSTRUCTION ON LEASE OR ACCESS ROAD, T. BIRD OIL LTD., MTS COMMUNICATIONS INC., MANITOBA HYDRO, AND MANITOBA HYDRO-GAS OPERATIONS MUST BE CONTACTED FOR LOCATION OF ANY UNDERGROUND FACILITIES THAT MAY EXIST.

There are no surface or underground improvements within 76m of well centre except as shown. OTHER FACILITIES MAY EXIST, OF WHICH WE WERE UNAWARE OF OR UNABLE TO LOCATE.



Client File: N/A
 NTS SHEET: 62 F/14
 LENNON TRILOGY File: 123936

All distances shown are horizontal and at ground level.

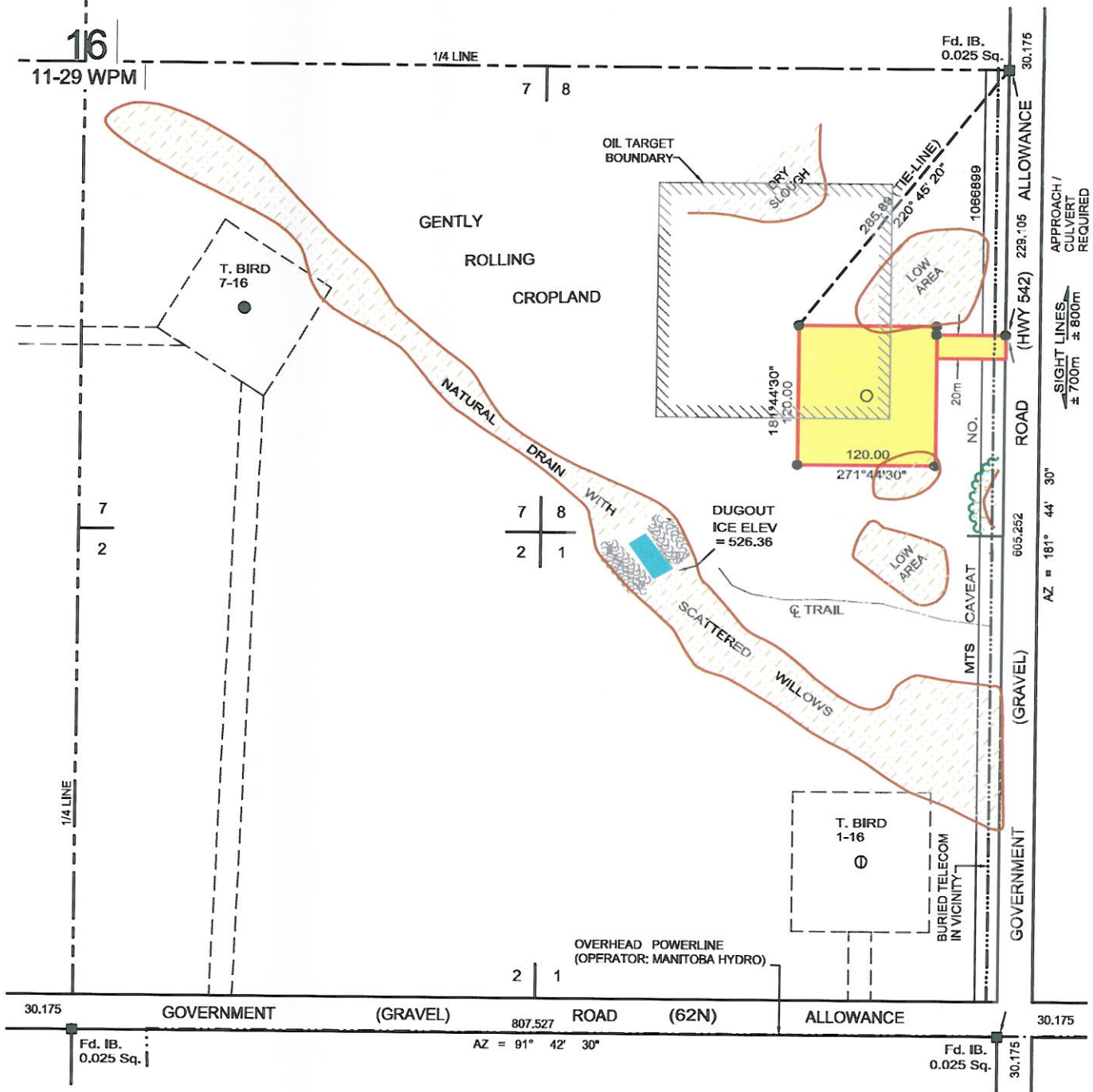
All bearings are NAD 83 (Zone 14) UTM grid bearings.
 The Combined Scale Factor derived is 0.999875

No.	DATE	DESCRIPTION	DWN	CKD
0	Mar. 18, 2010	ISSUED	GL	DAB
-	Mar. 18, 2010	ISSUED FOR REVIEW	GL	DAB

REVISIONS

FIELD BOOK
 V29
 PAGE(S)
 N/A

Surveyed by: DH
 Drafted by: GL
 Checked by: DAB



GIVEN CO-ORDINATES:
 522.12 North
 120.00 West
 SURVEYED CO-ORDINATES:
 522.12 North
 120.00 West
 REASON FOR MOVEMENT:
 NO MOVEMENT

TARGET CO-ORDINATES:
 WELL CENTRE IS:
 20.00 North
 20.00 West of SE Corner Oil Target Boundary



LOCAL CO-ORDINATES
 522.12 N of S } Sec 16
 120.00 W of E }
 UTM CO-ORDINATES (NAD 83)
 5532567.531 N } CSRS
 329142.384 E }
 UTM CO-ORDINATES (NAD 27)
 5532347.601N } CSRS
 329170.977 E }
 LATITUDE / LONGITUDE(LL83)
 49°55'15.732" } CSRS
 101° 22' 48.959" }

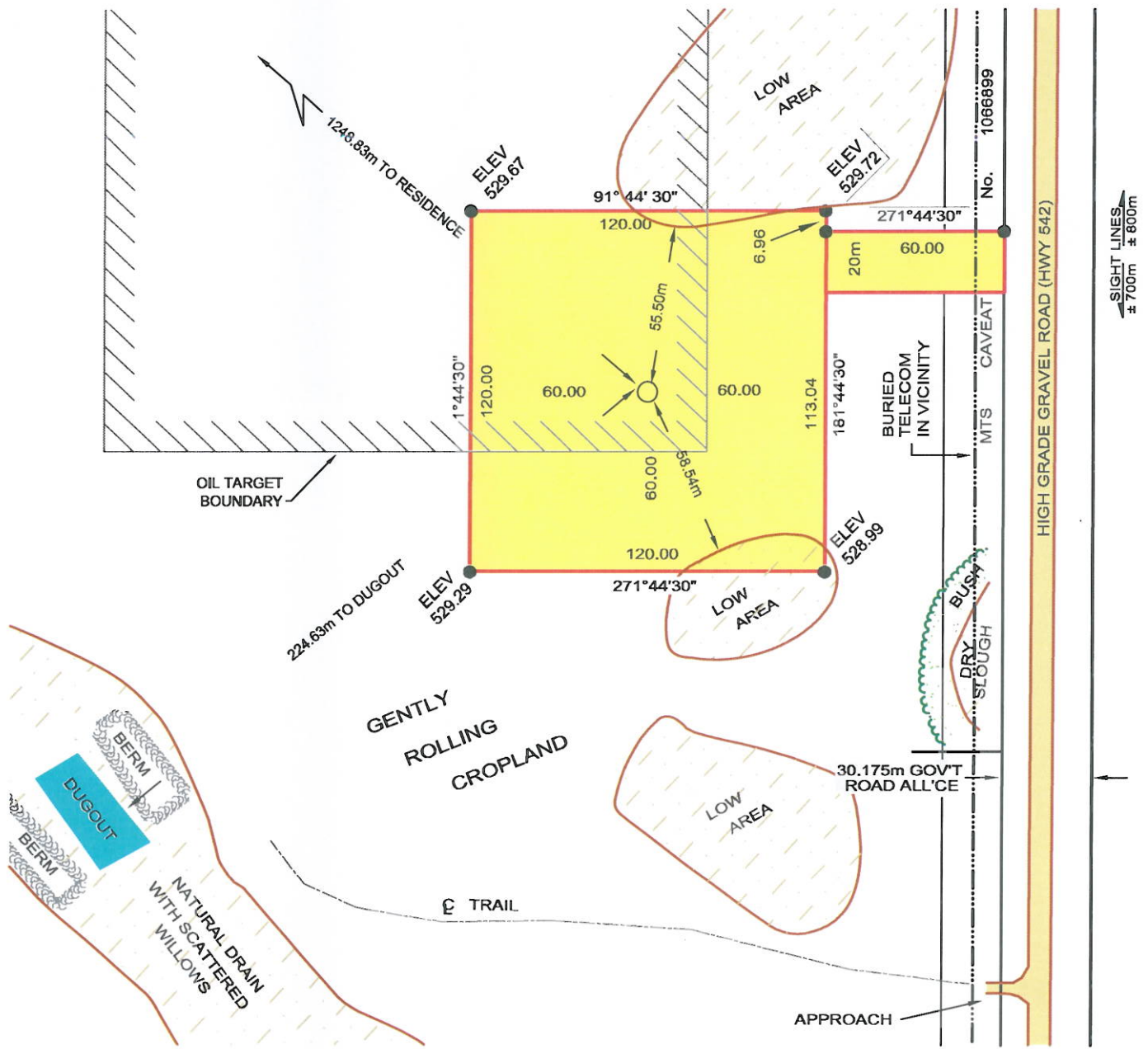
S.E. 1/4 Sec. 16 Twp. 11 Rge. 29WPM
 Owner(s): Boundary Lane Holding Company Ltd.
 C.T. No. 1426055

WELL CENTRE ELEVATION: 529.59
 Elevations shown are in Geodetic Datum from the
 Province of Manitoba Mon. #82R750

AREAS:

WELL SITE	1.440 ha	3.56 ac
ACCESS ROAD	0.120 ha	0.30 ac
TOTAL	1.560 ha	3.86 ac

T. BIRD OIL LTD.



DETAIL 1:2000

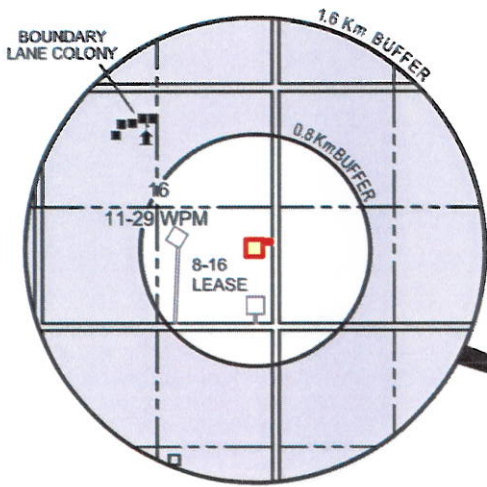


I certify that the survey represented by this plan is correct to the best of my knowledge and was completed on the 15th day of March, 2010.

Ken Belay
 MANITOBA LAND SURVEYOR
Ted Bely
 Witness

T. BIRD OIL LTD.

T. BIRD ET AL SOUTH KIRKELLA 8-16-11-29WPM
WELL SITE AND ACCESS ROAD
WELL SITE SURFACE LOCATION
LSD. 8A - SEC. 16 - TWP. 11 - RGE. 29WPM
R.M. of WALLACE



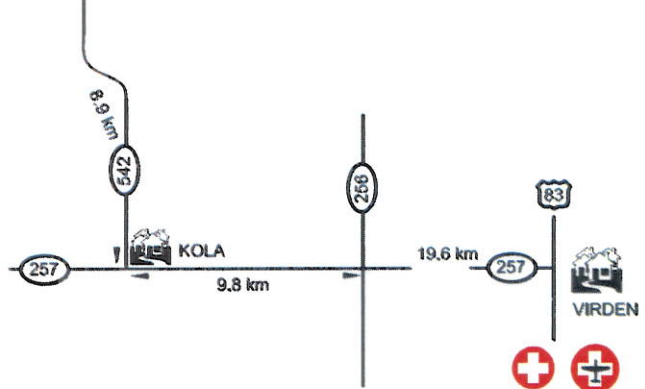
ROUTE MAP
NOT TO SCALE

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- LIFE FLIGHT EMERGENCY SERVICE
- SECONDARY HIGHWAY
- PRIMARY HIGHWAY
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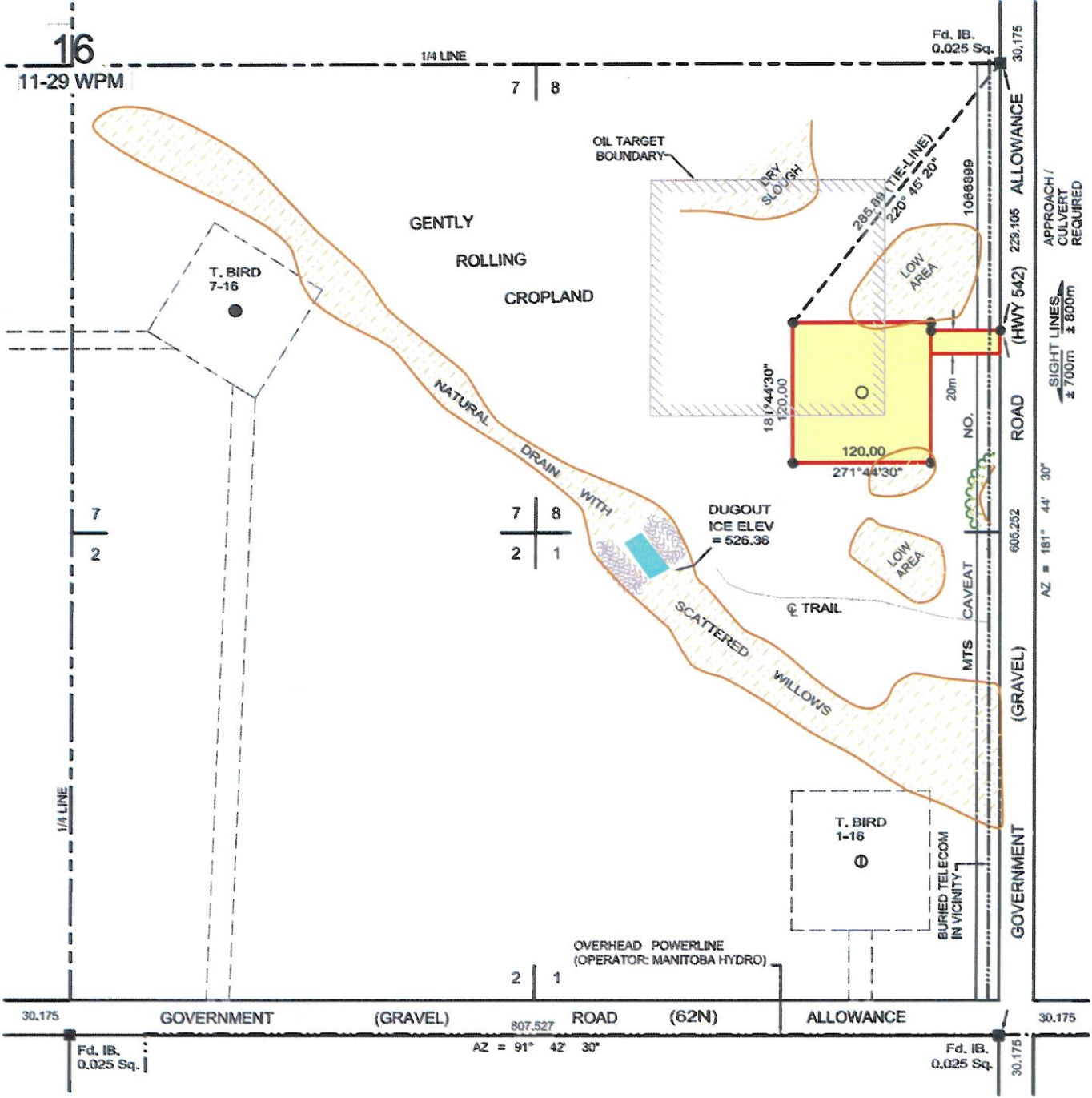
All bearings are NAD 83 (Zone 14) UTM grid bearings.
 The Combined Scale Factor derived is 0.999875

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 V29
 PAGE(S)
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 Drafted by: GL
 Checked by: DAB



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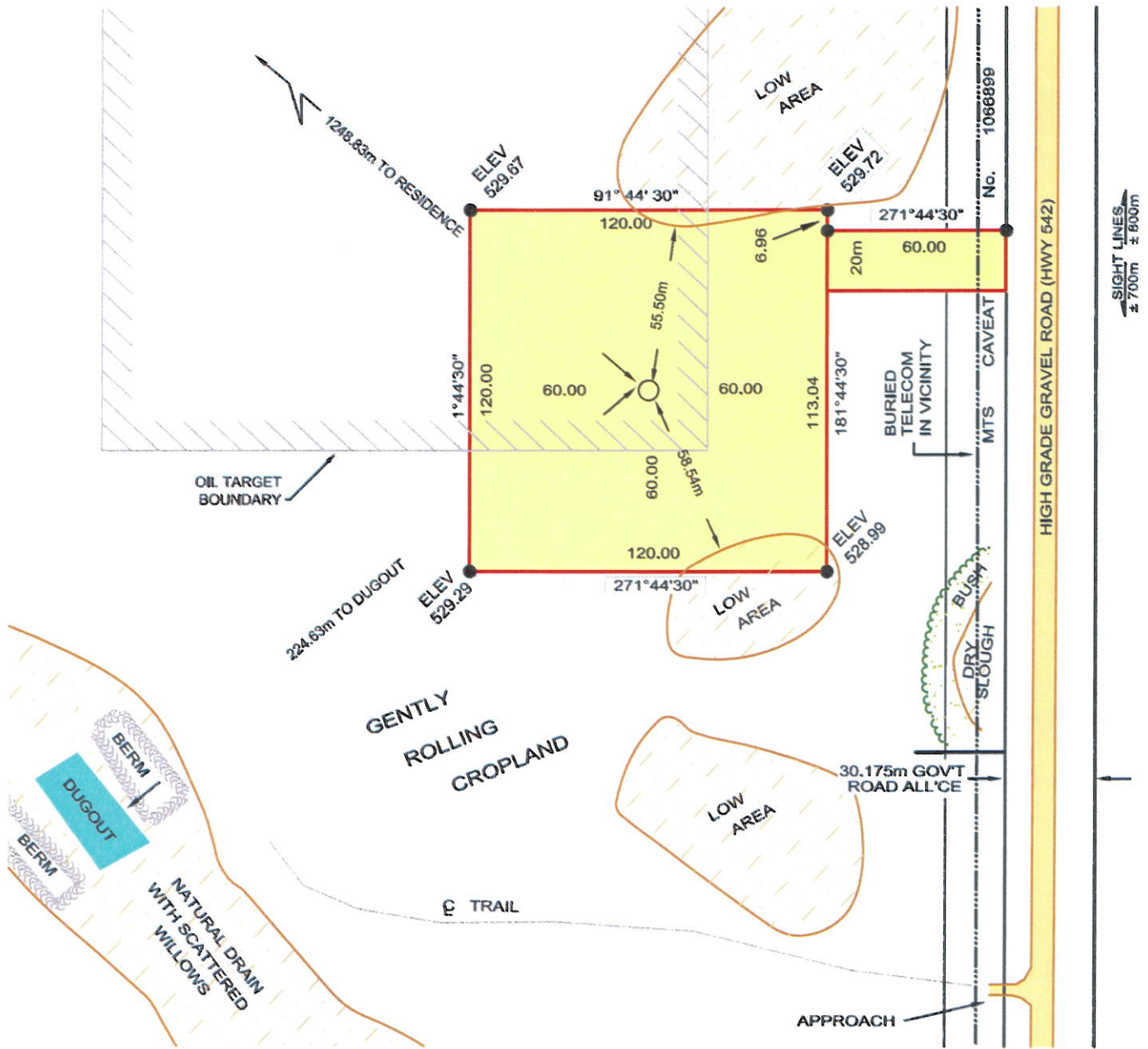
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 Elevations shown are in Geodetic Datum from the Province of Manitoba Mon. #82R750

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 Owner(s): Boundary Lane Holding Company Ltd.
 C.T. No. 1426055

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ACCESS ROAD	0.120 ha	0.30 ac
TOTAL	1.560 ha	3.86 ac

T. BIRD OIL LTD.



DETAIL 1:2000



I certify that the survey represented by this plan is correct to the best of my knowledge and was completed on the 15th day of March, 2010.

Ken Bely
 MANITOBA LAND SURVEYOR
Ted Bely
 Witness

T. BIRD OIL LTD.

Appendix 'C' Gas Analysis



Container Identification			
8000060			
Operator Name			Laboratory Number
T-BIRD OIL			10GS414688B
Unique Well Identifier	Well Name		
01-16-011-29W1			
Field or Area	Pool or Zone	Sampler's Company	
SOUTH KIRKELLA	NOT AVAILABLE	AGAT/ESTEVAN	
Well License	Elevation	Test Type	Test No.
	KB m GRD m		
Test Interval or Perfs mKB		Sampling Point	Name of Sampler
		WELLHEAD CASING	
		Separator	Reservoir
		Pressure (kPa)	5
		Temperature	12
Date Sampled	Date Received	Date Analyzed	Date Reported
Jun 24, 2010	Jun 29, 2010	Jul 06, 2010	Jul 06, 2010
		Entered By	Certified By
		Gerry Ecker	Gerry Ecker
Other Information			
FIELD H2S BY TUBE = 450 ppm			

* Results relate only to the items tested

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

COMP	MOLE FRACTION		PETROLEUM LIQUID mL / m ³
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	
H2	0.0002	0.0002	
He	0.0003	0.0003	
N2	0.1196	0.1205	
CO2	0.0074	0.0000	
H2S	0.0005	0.0000	
C1	0.0562	0.0566	
C2	0.1849	0.1864	
C3	0.3656	0.3687	1343.5
IC4	0.0598	0.0603	261.1
NC4	0.1413	0.1424	594.5
IC5	0.0381	0.0384	186.0
NC5	0.0178	0.0179	86.1
C6	0.0052	0.0052	28.5
C7+	0.0031	0.0031	19.3
Total	1.0000	1.0000	2519.0

Exceeds normal limits:
N2, IC5, NC5

GROSS HEATING VALUE MJ/m³ 15° C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
83.99	84.64	0.65

RELATIVE DENSITY (CALCULATED)

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m ³)	Total Sample Density(kg/m ³)
1.476	1.476	3.522	0.011	690.6	1.808

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4145.3	334.6	4118.9	334.8

RELATIVE MOLECULAR MASS

Total Gas	C7+
42.8	102.0

VAPOUR PRESSURE (Pentanes +)

116.69 kPa

H2S g/m³

0.72





Container Identification			
4000271			
Operator Name			Laboratory Number
T-BIRD OIL			10GS414688A
Unique Well Identifier	Well Name		
09-16-011-29W1			
Field or Area	Pool or Zone	Sampler's Company	
SOUTH KIRKELLA	NOT AVAILABLE	AGAT/ESTEVAN	
Well License	Elevation	Test Type	Test No.
	KB m GRD m		
Name of Sampler			
Test Interval or Perfs mKB	Sampling Point		Separator
	WELLHEAD CASING		Reservoir
			Source
			Sampled
			Received
		Pressure (kPa)	3 3 12
		Temperature	10 10 21
Date Sampled	Date Received	Date Analyzed	Date Reported
Jun 24, 2010	Jun 29, 2010	Jul 06, 2010	Jul 06, 2010
Entered By		Certified By	
Gerry Ecker		Gerry Ecker	
Other Information			
FIELD H2S BY TUBE = 37 ppm			

* Results relate only to the items tested

Note: Sampling Point, Unique Well Identifier and/or Pool or Zone information was unavailable at time of reporting. This information is integral to AGAT's WebFLUIDs, a comparison, history and trending analysis system.

COMP	MOLE FRACTION		PETROLEUM LIQUID mL / m ³
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	
H2	0.0002	0.0002	
He	0.0005	0.0005	
N2	0.1659	0.1667	
CO2	0.0046	0.0000	
H2S	TRACE	0.0000	
C1	0.0366	0.0368	
C2	0.1554	0.1561	
C3	0.4233	0.4252	1555.5
IC4	0.0554	0.0557	241.9
NC4	0.1135	0.1140	477.5
IC5	0.0157	0.0158	76.6
NC5	0.0174	0.0175	84.2
C6	0.0074	0.0074	40.6
C7+	0.0041	0.0041	25.7
Total	1.0000	1.0000	2502.0

Exceeds normal limits:
N2, IC5, NC5

GROSS HEATING VALUE MJ/m³
15° C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
79.90	80.26	0.86

RELATIVE DENSITY (CALCULATED)

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m ³)	Total Sample Density(kg/m ³)
1.451	1.451	3.530	0.014	691.0	1.778

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4099.6	325.6	4084.5	325.7

RELATIVE MOLECULAR MASS

Total Gas	C ₇ +
42.0	102.3

VAPOUR PRESSURE (Pentanes +)

98.13 kPa

H₂S g/m³

0.00



01/19/11
15:09:00

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

C:\BDS\T.Bird Oil Ltd\TBird.scr

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = 0.125122E-02
STACK HEIGHT (M) = 6.0000
STK INSIDE DIAM (M) = 0.1000
STK EXIT VELOCITY (M/S)= 0.2210
STK GAS EXIT TEMP (K) = 293.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = 0.0000
URBAN/RURAL OPTION = RURAL
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 = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

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

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA		
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
1.	0.000	1	1.0	1.0	320.0	5.81	0.41	0.18	NO
100.	4.785	4	1.0	1.0	320.0	5.81	8.20	4.65	NO
200.	4.597	6	1.0	1.0	10000.0	5.81	7.73	4.09	NO
300.	3.697	6	1.0	1.0	10000.0	5.81	11.23	5.62	NO
400.	2.748	6	1.0	1.0	10000.0	5.81	14.64	7.05	NO
500.	2.078	6	1.0	1.0	10000.0	5.81	17.97	8.40	NO
600.	1.617	6	1.0	1.0	10000.0	5.81	21.24	9.69	NO

700.	1.294	6	1.0	1.0	10000.0	5.81	24.46	10.93	NO
800.	1.070	6	1.0	1.0	10000.0	5.81	27.63	11.98	NO
900.	0.9018	6	1.0	1.0	10000.0	5.81	30.78	12.98	NO
1000.	0.7724	6	1.0	1.0	10000.0	5.81	33.88	13.95	NO
1100.	0.6733	6	1.0	1.0	10000.0	5.81	36.96	14.82	NO
1200.	0.5934	6	1.0	1.0	10000.0	5.81	40.01	15.66	NO
1300.	0.5279	6	1.0	1.0	10000.0	5.81	43.04	16.47	NO
1400.	0.4735	6	1.0	1.0	10000.0	5.81	46.05	17.26	NO
1500.	0.4277	6	1.0	1.0	10000.0	5.81	49.03	18.03	NO
1600.	0.3888	6	1.0	1.0	10000.0	5.81	51.99	18.78	NO
1700.	0.3554	6	1.0	1.0	10000.0	5.81	54.94	19.52	NO
1800.	0.3264	6	1.0	1.0	10000.0	5.81	57.87	20.23	NO
1900.	0.3012	6	1.0	1.0	10000.0	5.81	60.78	20.94	NO
2000.	0.2790	6	1.0	1.0	10000.0	5.81	63.68	21.63	NO
2100.	0.2604	6	1.0	1.0	10000.0	5.81	66.56	22.21	NO
2200.	0.2438	6	1.0	1.0	10000.0	5.81	69.42	22.78	NO
2300.	0.2289	6	1.0	1.0	10000.0	5.81	72.28	23.34	NO
2400.	0.2155	6	1.0	1.0	10000.0	5.81	75.12	23.89	NO
2500.	0.2034	6	1.0	1.0	10000.0	5.81	77.95	24.42	NO
2600.	0.1923	6	1.0	1.0	10000.0	5.81	80.76	24.95	NO
2700.	0.1823	6	1.0	1.0	10000.0	5.81	83.57	25.47	NO
2800.	0.1731	6	1.0	1.0	10000.0	5.81	86.36	25.98	NO
2900.	0.1647	6	1.0	1.0	10000.0	5.81	89.15	26.48	NO
3000.	0.1569	6	1.0	1.0	10000.0	5.81	91.92	26.98	NO

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

52. 5.220 3 1.0 1.0 320.0 5.81 6.92 4.16 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

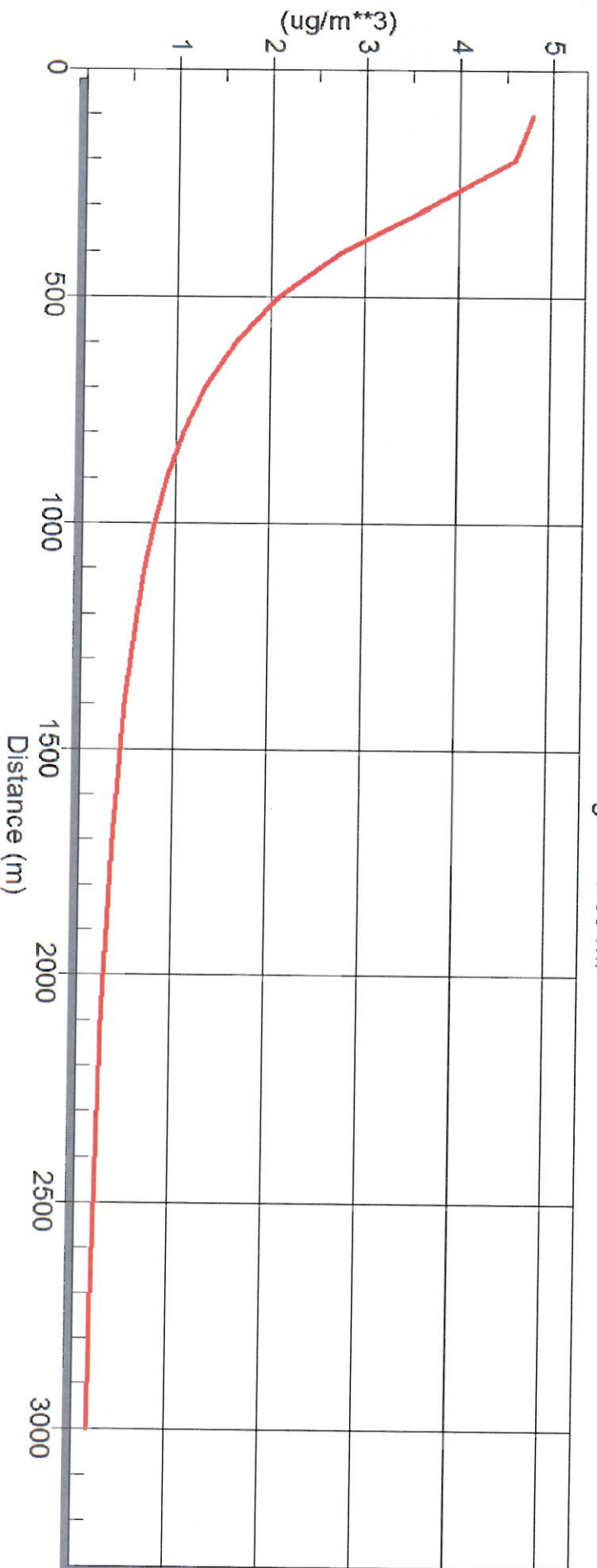
*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
--------------------------	-----------------------	--------------------	-------------------

SIMPLE TERRAIN	5.220	52.	0.
----------------	-------	-----	----

Automated Distance Vs. Concentration

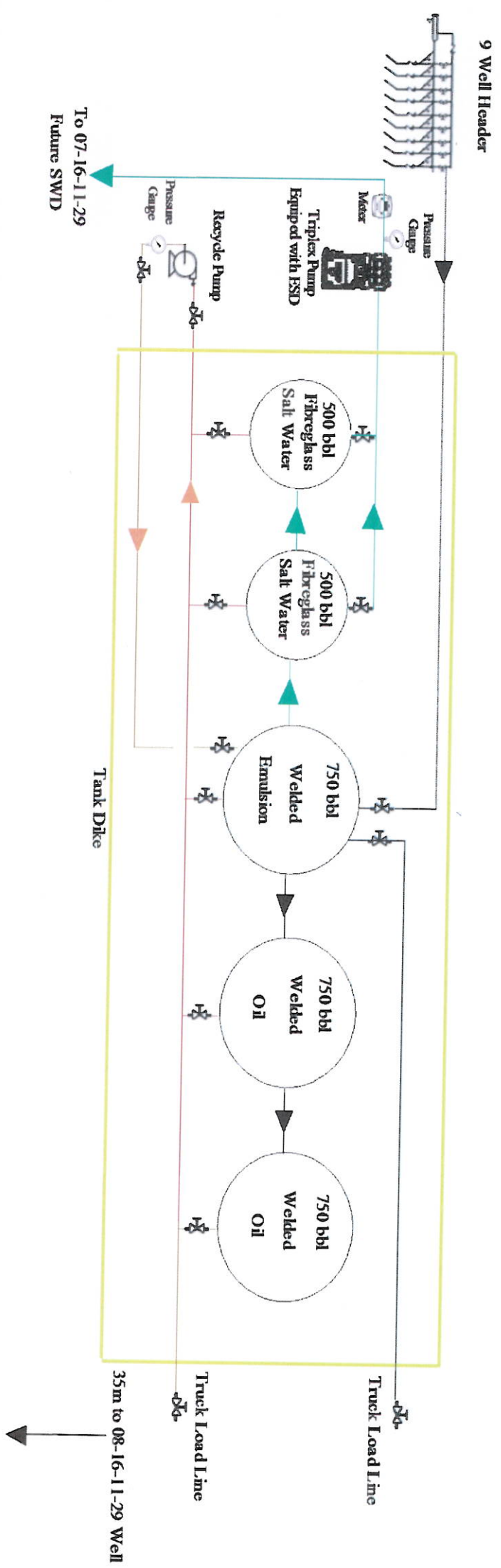
Terrain Height = 0.00 m.



Appendix 'D' Air Dispersion Modeling

Appendix 'E' Plot Plan / Flow Schematic

T. Bird 08-16-11-29 Battery Plot and Flow Schematic



T. Bird 08-16-11-29 Battery Plot & Flow Schematic	Distance Scale: 1:150	Revision
By : B. Dunning	Date: Jan 21, 2011	Revision:

35m to 08-16-11-29 Well