

100181001

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GPS Control Stations

UTM Coordinates, Zone 12, NAD 83(CSRS)

Station	Northing	Easting	Combined Scale Factor	Orthometric Height
200 PPP Station	5973754.49	539710.89	0.999521	853.98
200 ASCM 67728	5971345.10	539022.76	0.999523	815.43
249 BM 78E100	5967301.70	533334.17	0.999527	576.03

Coordinates were derived from GPS observations and are referred to NAD 83(CSRS).

Coordinates shown on this plan were derived by holding the Precise Point Positioning on Station 200.

Orthometric heights are derived by holding station 200 as published by Alberta Survey Control Marker Information.

Orthometric heights are derived from GPS observations using the GSD 95 geoid model.

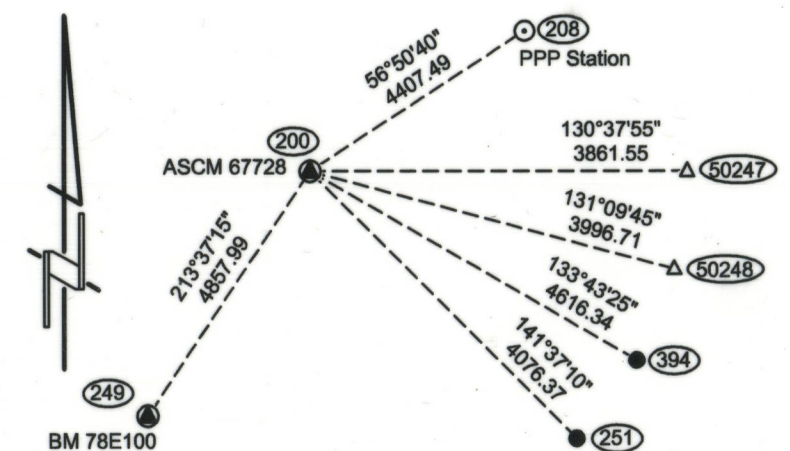
Estimated horizontal absolute accuracy of this survey is 0.06m.

UTM Coordinates, Zone 12, NAD 83(CSRS)

Monuments	Northing	Easting
251	5968151.11	538552.47
394	5968155.87	539357.30
50247	5968831.68	538951.94
50248	5968715.74	539030.29

GPS Control Stations

Not To Scale



REV	TWIN BUTTE 8C FROG LAKE 8-29-56-3
1	File: 127688W-R1-CSRS Job No.: 127688-S Client File No.: NRCAN Project No: 20111126

Natural Resources Canada
Reg. Section 40(1), Indian Oil and
Gas Regulations, 1995 Revised
R. Jelli March 13, 2012
for Surveyor General

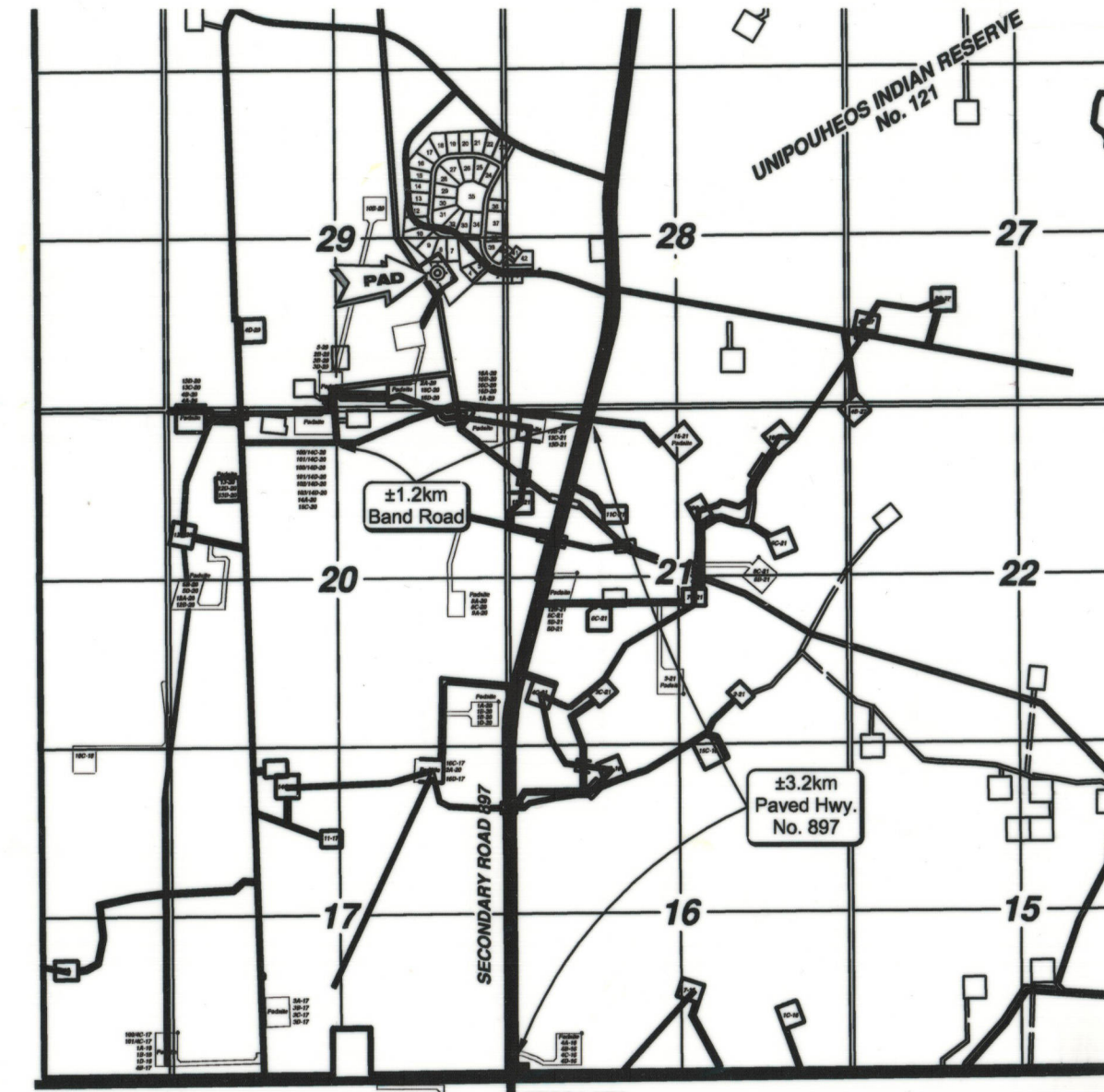
CANADA LANDS
SURVEYS RECORDS
100187
Date **MAR 23, 2012**

REV	TWIN BUTTE 8C FROG LAKE 8-29-56-3
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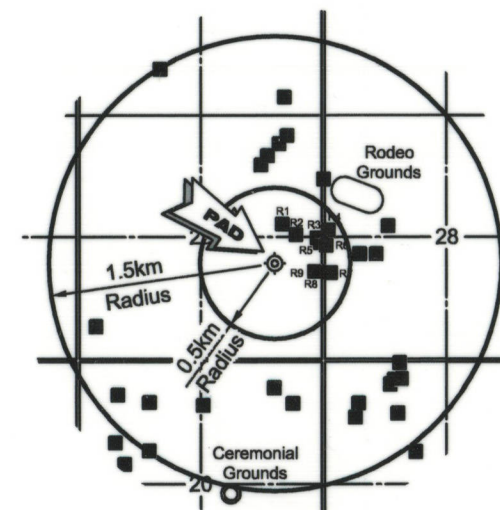
TWIN BUTTE 9B FROG LAKE 8-29-56-3 (Directional)									
LOCAL					NAD 83 (CSRS)				
	N/S	E/W	SEC.	ELEV.	GEO.	U. T. M.			
SURFACE	645.94 N. of S.	319.46 W. of E.	29	604.11	53.866391 Latitude	110.406432 Longitude	5968819.71 N.	539032.41 E.	
BOTTOM HOLE	761.61 S. of N.	304.27 W. of E.	29		53.866199 Latitude	110.406201 Longitude	5969021.01 N.	539045.91 E.	
DEVIATION TABLE					FROM	TO	UTM GRID BRG	TRUE AZIMUTH	DISTANCE
					SURFACE	BOTTOM HOLE	3°50'10"	4°18'55"	201.84
TWIN BUTTE 8C FROG LAKE 8-29-56-3 (Directional)									
LOCAL					NAD 83 (CSRS)				
	N/S	E/W	SEC.	ELEV.	GEO.	U. T. M.			
SURFACE	637.63 N. of S.	313.93 W. of E.	29	604.17	53.866316 Latitude	110.406347 Longitude	5968811.44 N.	539038.01 E.	
BOTTOM HOLE	697.04 N. of S.	275.89 W. of E.	29		53.866849 Latitude	110.405762 Longitude	5968871.05 N.	539076.04 E.	
DEVIATION TABLE					FROM	TO	UTM GRID BRG	TRUE AZIMUTH	DISTANCE
					SURFACE	BOTTOM HOLE	32°32'00"	33°00'45"	70.74
TWIN BUTTE 8D FROG LAKE 8-29-56-3 (Directional)									
LOCAL					NAD 83 (CSRS)				
	N/S	E/W	SEC.	ELEV.	GEO.	U. T. M.			
SURFACE	629.30 N. of S.	308.40 W. of E.	29	604.21	53.866241 Latitude	110.406263 Longitude	5968803.15 N.	539043.61 E.	
BOTTOM HOLE	695.89 N. of S.	112.21 W. of E.	29		53.866835 Latitude	110.403281 Longitude	5968870.86 N.	539239.15 E.	
DEVIATION TABLE					FROM	TO	UTM GRID BRG	TRUE AZIMUTH	DISTANCE
					SURFACE	BOTTOM HOLE	70°53'55"	71°22'40"	207.03
TWIN BUTTE 8A FROG LAKE 8-29-56-3 (Directional)									
LOCAL					NAD 83 (CSRS)				
	N/S	E/W	SEC.	ELEV.	GEO.	U. T. M.			
SURFACE	620.99 N. of S.	302.97 W. of E.	29	604.18	53.866166 Latitude	110.406179 Longitude	5968794.88 N.	539049.21 E.	
BOTTOM HOLE	613.09 N. of S.	123.82 W. of E.	29		53.865193 Latitude	110.403450 Longitude	5968668.09 N.	539229.58 E.	
DEVIATION TABLE					FROM	TO	UTM GRID BRG	TRUE AZIMUTH	DISTANCE
					SURFACE	BOTTOM HOLE	120°37'40"	121°06'30"	209.71

UTM and Geographic Co-ordinates are Derived from G.P.S.



LOCATION MAP

Not To Scale



SURFACE DEVELOPMENT

SCALE - 1:50,000

NOTE:
Surface Developments are shown thus: --- ■

Distance From Center of Pad To:	Distance	Point No.	Note
Residence No. R1	0.28 km.	6060	
R2	0.24 km.	6059	
R3	0.42 km.	7951	Day Care
R4	0.33 km.	7947	
R5	0.33 km.	7948	
R6	0.36 km.	7950	
R7	0.37 km.	7956	Town Hall
R8	0.29 km.	7957	Fire Hall
R9	0.27 km.	6058	Shop

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