010

Diamond Drilling

Area of ATKINSON LAKE

Report Nº 26

Work performed by: AMOCO PETROLEUM CO. LIMITED

Claim Nº	Hole Nº	Footage	Date	Note
P 400969	9-1	706.0'	Mar/76	(1)

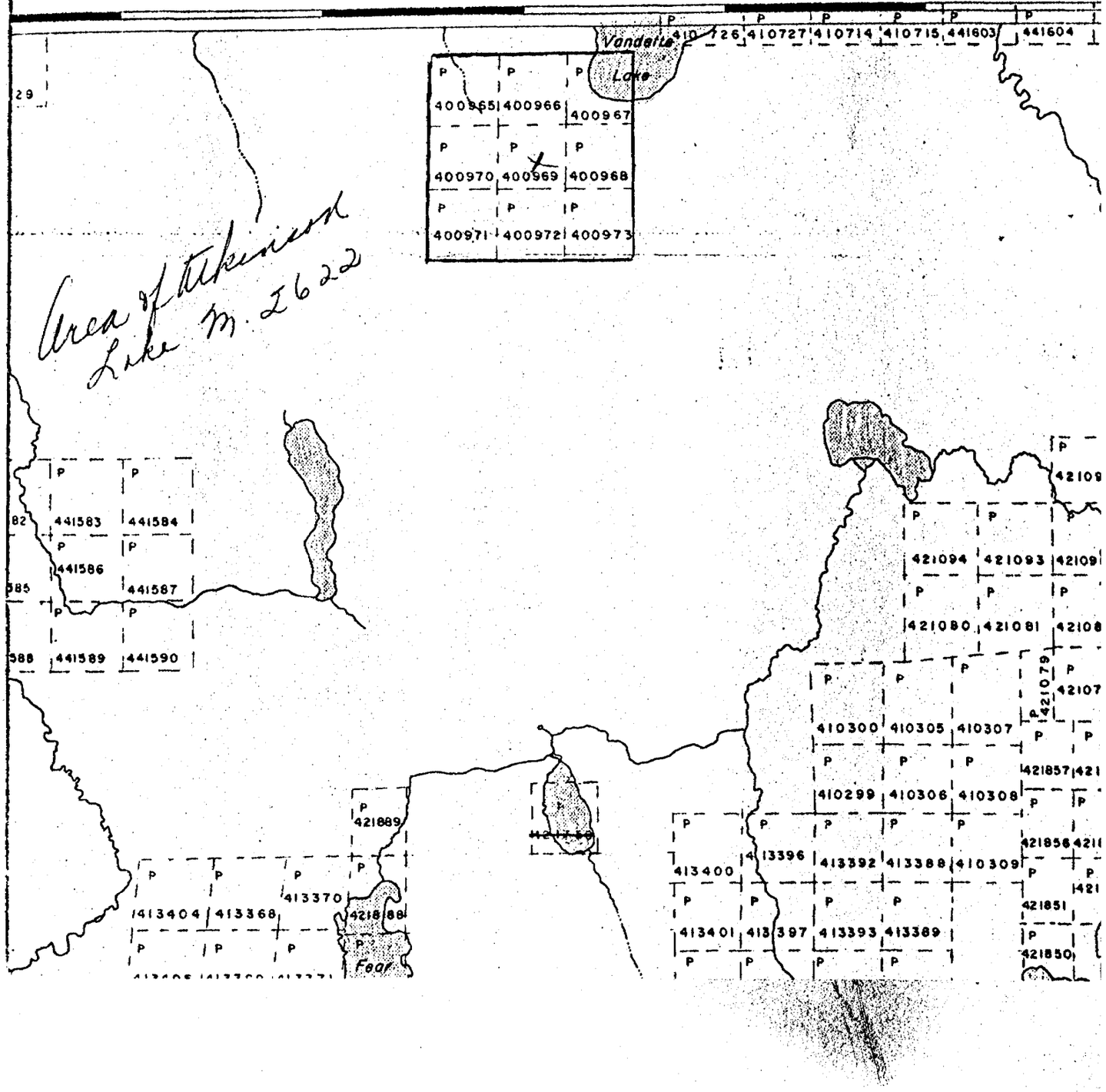
Notes:

(1) #95-76

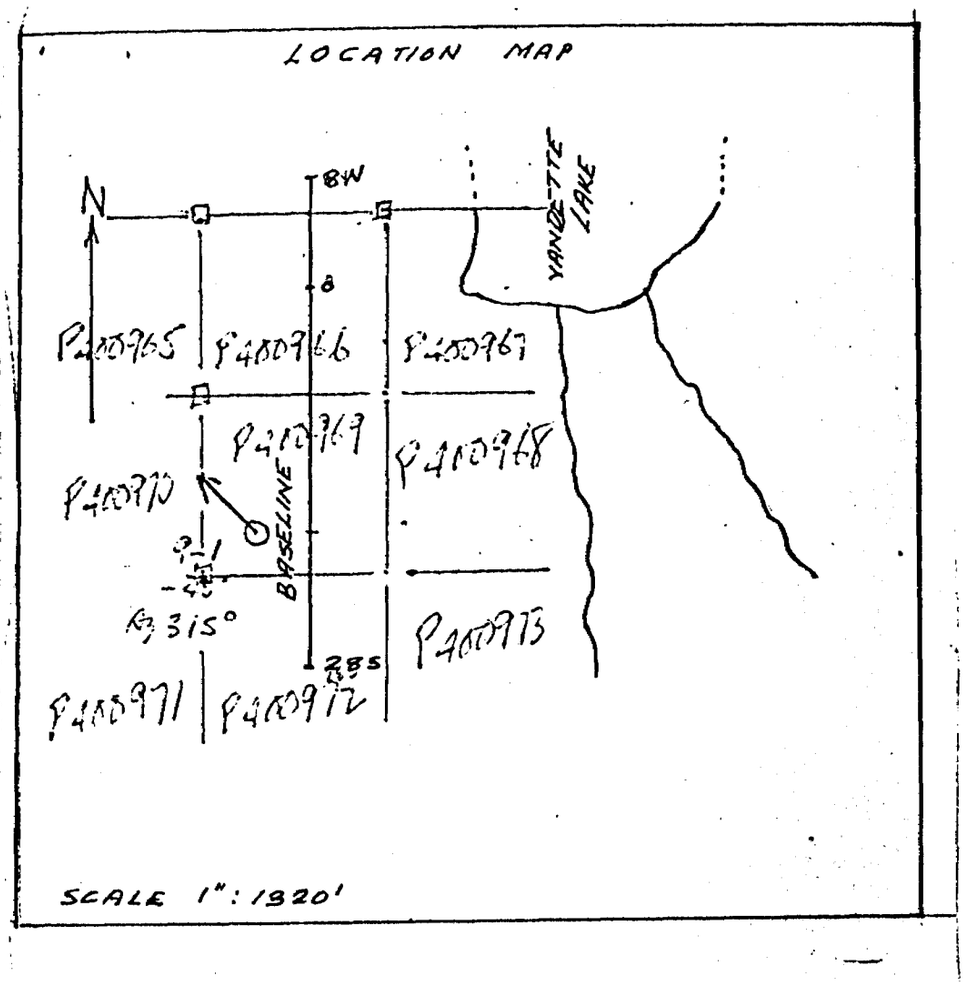
#95-76

ATKINSON LAKE

~~LOWER DETOUR LAKE M.2603~~



Area of Atkinson Lake M.2622



AMOCO CANADA PETROLEUM COMPANY LTD.
SUITE 2010 - 65 QUEEN ST. WEST
TORONTO 1, ONTARIO

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD.

PROJECT ....766-001..... HOLE No. ....9-1.....

COMPLETED BY ....W. Melnyk..... DATE ..March 27, 1976

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.
A1691	190.0	195.0	5.0	N	.01	.003	.006		
A1692	195.0	200.0	5.0	N	.01	.006	.006		
A1693	200.0	205.0	5.0	N	.01	.004	.006		
A1694	205.0	210.0	5.0	N	ND	.005	.005		
A1695	210.0	215.0	5.0	N	.01	.004	.007		
A1696	215.0	220.0	5.0	N	.01	.004	.006		
A1697	220.0	225.0	5.0	T	.01	.004	.007		
A1698	225.0	230.0	5.0	T	.02	.006	.008		
A1699	230.0	235.0	5.0	T	ND	.011	.006		
A1700	235.0	240.0	5.0	T	.01	.010	.005		
A1701	240.0	245.0	5.0	N	.02	.009	.008		
A1702	245.0	250.0	5.0	N	.01	.009	.009		
A1703	250.0	255.0	5.0	N	.01	.009	.01		
A1704	255.0	260.0	5.0	N	.01	.011	.014		
A1705	275.0	280.0	5.0	N	ND	.004	.008		
A1706	280.0	285.0	5.0	N	ND	.003	.008		
A1707	285.0	290.0	5.0	T	.02	.016	.086		
A1708	290.0	295.0	5.0	N	.03	.03	.19		
A1709	295.0	300.0	5.0	T	.01	.015	.71		
A1710	300.0	305.0	5.0	N	.01	.018	.014		
A1711	305.0	310.0	5.0	N	.03	.022	.015		
A1712	310.0	315.0	5.0	N	.01	.054	.027		
A1713	315.0	320.0	5.0	N	ND	.014	.003		

ASSAY DATA SHEET

AMOCO CANADA PETROLEUM CO. LTD.

PROJECT .....76C-001..... HOLE No. .....9-1.....

COMPLETED BY ....W. Melnyk..... DATE ..March 27, 1976.

SAMPLE No.	FROM	TO	WIDTH	Au.	Ag.	Cu.	Zn.	Pb.	Ni.	
A1714	320.0	325.0	5.0	T	.06	.10	.093			
A1715	325.0	330.0	5.0	T	.047	.018	.018			
A1716	600.0	605.0	5.0	T	ND	.02	.003			
A1717	605.0	610.0	5.0	T	ND	.02	.003			
A1718	650.0	655.0	5.0	T	ND	.009	.002			
A1719	696.0	701.0	5.0	T	.01	.017	.006			
A1720	701.0	706.0	5.0	T	.01	.026	.005			

AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD #95 ATKINSON LAKE

PROPERTY	ATKINSON LAKE PROJECT	LATITUDE	L18+00S	STARTED	March 19, 1976
HOLE NO.	9-1	DEPARTURE	4+00W	FIN...	March 23, 1976
BEARING	315°	ELEVATION		LENGTH	306'
DIP-COLLAR	-45°	SECTION		LOGGED BY	W. Melnyk

DIP TEST

Footage	Corrected	Footage	Corrected	Footage	Corrected
200	45°				
400	45°				
600	44½°				

Footage From	Footage To	Description	% Mineralization	Sample No.	Footage From	Footage To	Length	Assays
0	159.0	Casing						
159.0'	188.0'	Felsic Lapilli Tuff This is a homogeneous dark-grey felsic unit, fine grained throughout but containing partially [illegible], [illegible] siliceous fragments ranging in size from 2-3mm. These [illegible] fragments have been partially resorbed and are fringed by flakes of sericite and muscovite. Sulfide content is negligible. Bedding at 164.0' 72° w c.a.						
188.0'	207.0'	Felsic Tuff This is an irregularly bedded, fine grained, siliceous unit containing a significant amount of biotite and sulfide. The biotite-rich bands are conformable with bedding and usually in association with chlorite, garnet, pyrite and pyrrhotite. Sulfide content is approximately 10% combined py & po. Bedding at 50° w c.a.	10% py, po					
207.0'	211.5'	Intermediate Tuff [illegible] is a thoroughly homogeneous Intermediate unit, fine-medium grained, dark yellow-brown in color containing large amounts of biotite and chlorite. Rock has odd thin siliceous strip near the top of the interval probably conformable with bedding and contains odd small (1-2mm) blebs of quartz through the remainder of the unit. Very weakly disseminated pyrrhotite.						
211.5'	228.6'	Felsic Tuff Very similar to 188.0'-207.0' This unit is once again an interlayered sequence of felsic and biotitic-chloritic material. The rock is dark grey in color on core surface (often dark brown to black depending on mafic distribution). In general a thoroughly heterogeneous unit.						

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Footage From	Footage To	Description	% Mineralization	Sample No.	Footage From	Footage To	Length	Assays
		(211.5'-228.6' continued) Sulfide content is about 3% average. Py and po occur as euhedrals conformable with bedding. Bedding approximately 70° W.C.A.	5% py-po					
228.6'	254.5'	Mafic Tuff This is a dark grey to black fine-grained mafic unit, partially silicified, thoroughly heterogeneous and very irregularly bedded. Garnet is present in areas which have undergone chloritization. These zones may or may not contain sulfides. Biotization is not common. Sulfides consist of equivalent amounts of po + py to a total of 5%. 248.1'-249.2': Shattered silicified zone containing chlorite along fractures as well as dissemination of po.	5% po+py					
254.5'	258.1'	Intermediate Tuff or Flow A medium-coarse grained, massive, intermediate rock which may represent a flow. Sulfide mineralization consists of 2-3% disseminated po. 255.8'-257.5': Intermediate porphyritic flow phenocrysts from 1-2 mm altered. 257.5'-258.1': Intermediate tuffite. Contains a 4" angular piece of material from surrounding unit.						
258.1'	263.8'	Felsic Flow A homogeneous felsic unit, light grey, medium grained, massive, no variation in physical character through length. Small biotite content gives the rock a brown hue on broken surface. Sulfide mineralization consists of 2% disseminated po. Both contacts are irregular.						
263.8'	273.6'	Intermediate Flows Similar in physical appearance to 254.5'-258.1'. This unit is dark grey to black and compositionally homogeneous throughout. The only variation is the grain size - from fine to medium grained. Bedding near the bottom of unit is at 55° W.C.A. V. weakly mineralized in disseminated po.						
273.6'	283.9'	Cherty Tuff This is a barren greyish-white, very fine grained cherty unit. This tuff is very well bedded at 70° W.C.A. The top two feet contain the only sulfide mineralization of the interval - irregular blebs of po + py. Remainder of the interval is barren.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
283.3'	297.6'	Graphite For the most part this unit is thinly laminated and streaked with sulfide mineralization conformable with bedding. Bedding is between 70°-90° w.c.a. There are two zones of sulfide concentration. 287.0'-290.0' : 15% equal parts po & py 292.0'-297.0' : Sulfide content is 15-20% combined po and py, blebs and wisplets of sulfide	15% po & py									
297.6'	303.1'	Felsic Lapilli Tuff This is a homogeneous felsic unit both chemically and physically. The core surface is 'spotted' by white [illegible] fragments 1-3mm in diameter. On core surface the rock is dark grey in color and on broken surface a large black-biotite content gives the rock a blackish hue. The rock is massive and very weakly mineralized in disseminated po. Bottom contact is gradational.										
303.1'	310.2'	Intermediate Tuff This is a light greenish-grey siliceous unit probably of dacitic composition. This unit is fine grained and massive for the most part but is contaminated in the first three feet to include some graphitic material as well as silicified zones. 307.0-308.5 : Silicified containing po, py, trace chalcopyrite and sphalerite. 306.5' : 1½" band po & py 309.9' : 1½" band po & py										
310.2'	315.0'	Graphite This graphitic unit is thinly laminated perpendicular to the core axis and contains blebs of silica scattered over the length of the unit. Sulfide mineralization consists of po, py and traces of chalcopyrite. 312.0-313.0 : slump texture 313.5-315.0 : po, tr py, and trace cpy. bedding is disrupted considerably.										
315.0'	318.3'	Intermediate Tuff Similar to 303.1'-310.2' This unit is fine grained, grey, silicified and weakly mineralized over silicified portions, particularly near bottom of unit. Sulfides include po, minor py, and trace cpy.										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS				
310.3'	323.0'	Graphite. Similar to 310.3'-315.0'. This graphitic section is silicified and contains 15-20% sulfide over the entire interval. Pyrrhotite is the dominant sulfide but pyrite and traces of cpy. are prominent in the section from 322.0'-323.0'. Bedding is thoroughly disrupted.	15-20% po, Tr py Tr. Cpy									
323.0'	332.0'	Mafic Tuff This section is composed of dark green, irregularly bedded, altered mafic tuffs. 323.0'-327.0': Thoroughly silicified section contains approx. 10% po, minor py and traces of cpy. and sphalerite. This section is also chloritized and contains scattered euhedral garnets which range in size from 1-2 mm. 327.0'-332.0': This portion is chloritized and contains garnets similar to previous section. Sulfide mineralization is very poor in this section. 327.0': Beyond this point, sulfide mineralization is very weak to end of hole. Bedding is roughly 70° w.C.A.	10% po, minor py Tr. Cpy, Tr. sphal.									
332.0'	431.0'	Mafic Flows This is a sequence of flows probably of andesitic to basaltic composition ranging from fine to coarse grained. The flows are distinguished by the presence of crystals of amphibole and pyroxene on core surface which are darker green than the matrix. Invariably grainsize decreases toward flow margins. Individual flows are generally less than 20 feet in thickness. A weak schistosity is present, represented by the alignment of biotite and feldspar bands at 60° w.C.A. This is probably also the bedding attitude. Sulfide mineralization is minimal, only scattered disseminations of po. 360.9': 1/4" q.v. 40° w.C.A. po, Tr. Cpy										
431.0'	432.0'	Intermediate Flow This is a dark grey porphyritic flow not as siliceous as previously encountered felsic units. Feldspar phenocrysts are white, euhedral and range between 2 to 4 mm. The phenocrysts are randomly distributed - no crystal sorting. Brown biotite is prevalent in the matrix. Unit is very weakly mineralized in disseminated po.										

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
438.0	471.0	Mafic Flows Similar to 332.0'-431.0' These are thin, fine grained flows, banded, and may in part be tuffaceous. Banding is especially evident by the presence of brown biotite. Banding, schistosity (or bedding) is at 60°-70° to C.A. Very weakly mineralized in disseminated po						
471.0	492.-	Mafic Tuffs This is an assortment of mafic material - tuffs and possibly sediments. This section is thoroughly banded, components vary widely in texture, colour and composition. Most of the bedding is contorted and irregular. Portions of note containing thin milky-white bands of chert, coarse brown biotite and feldspar, are probably of sedimentary origin. Bedding is about 75° to C.A. Sulfide content is very poor						
A??.6	517.8'	Mafic Flows Similar to 332.0'-431.0' These flows are typically thin and may include some tuffaceous material. Features such as flow-top breccias, and gradational grainsize are clearly evident of flows. Very poor sulfide content.						
517.8	564.0'	Mafic Tuff This is a fairly homogeneous mafic unit, bedded irregularly but consistently. The initial 10 feet and final 10 feet contain a great deal of brown biotite. Bedding is at about 70° to C.A. Very poor sulfide content						
564.0'	706.0'	Mafic Flows This is a consistent sequence of andesitic-basaltic flows very similar to 332.0'-431.0'. The flows vary from medium to coarse grained. Sulfide content is generally quite poor except for the odd stringer or blob of po. 601.0-610.0 : This flow has been bleached and contains 3-4% po with specks of cpy. 650.0'-706.0' : Occasional specks of chalcopyrite are found associated with pyrrhotite although total sulfide content is low (1-2%)	Trace cpy					
	706.0'	END OF HOLE						