

DIAMONI



010

AREA: VALORA LAKE

REPORT NO: 51

WORK PERFORMED FOR: Minnova Inc.

RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
Pa 964755 & Pa 227072	DW-01	413.90m	Jan/88	(1)

NOTES: (1) W8903.176, filed Jan/90



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.80	CASING «CASING»	Overburden - boulders, clay, sand.				
9.80 TO 82.30	QUARTZ DIORITE «QTZ DIORITE»	<p>A pale blue, homogeneous, cg. quartz rich diorite containing 50% glassy pale - deep blue coloured angular to subrounded quartz crystals 2-5mm in size. Quartz crystals often occur as discreet crystals, but may be clustered in amorphous masses 2-5% milky white &lt; mm feldspar grains peppered throughout unit.</p> <p>Enveloping quartz crystals is a chlorite altered mafic component of amphibole and biotite.</p> <p>Foliation moderately well defined by feathery mafic component @ .....</p> <p>Unit competent; RQD &gt; 90%.</p> <p>(Note: 5.9-9.5m - drilled qtz-diorite boulder).</p> <p>Generally 1% 1-2cm wide glassy - milky - white qtz veins criss crossing unit, occasionally rimmed with py or po.</p> <p>11.0-12.2 Blocky, broken core, strong chl adjacent to 10cm wide fractures.</p> <p>15.5-16.0 Weak pale orange - pink staining k-spar.</p> <p>{21.0-27.0} «QV'S» Zone of 10% 1cm-30cm wide milky white quartz veins, often rimmed with and/or containing chlorite +/- bio seams.</p> <p>23.9-24.6 Milky white, vuggy qtz vein, bleached wallrock, 10% chl - bio filled fractures associated with coarse pyrite, 5% albite.</p> <p>30.6-30.9 Late chlorite + Ca carb altered fracture at 30 degrees CA.</p> <p>31.1-32.0</p>	50	<p>«CHL, SER» Moderate - strong chlorite alteration of mafic component, feathery pale brown sericite occurs locally through unit.</p> <p>{21.0-27.0} «SIL» Moderate - strong silicification through matrix, bleaches zone.</p> <p>{30.9-44.5} «SIL» As at 21.0, zone of silicification.</p>	<p>{21.0-43.0} «PY, PO» Tr- 1% coarse pyrite seams, fg-granular, associated with chlorite filled fractures, occasionally with associated po.</p> <p>23.9-24.6 1% coarse py seams.</p>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>10% 1-2mm angular milky white feldspar grains through unit.</p> <p>{43.0-52.0} «FLT» Late fault; blocky, broken core, RQD = 50% limonite stained adjacent to fractures.</p> <p>52.0 Foliation @ .....</p> <p>{57.0-62.5} «SIL, QV'S» Zone of silicification, 2-3% 1-2cm wide qv's.</p> <p>{63.5-68.3} «BX, QV'S» Brecciated/Fault zone; 5% qtz veining generally 1-2cm wide, associated with chlorite.</p> <p>68.0-68.3 Milky white vuggy quartz-carb vein; rimmed with chlorite.</p> <p>68.3-82.3 Typical qtz-diorite, moderate chlorite alteration occasional chlorite filled slip &lt; cm at 20-30 degrees CA.</p>	40	<p>{63.5-68.3} «HEM» Hematite stained zone associated with fractures.</p>	<p>44.8-44.9 3cm wide qtz-tour 'crack-seal' type vein at 30 degrees CA. Vein vuggy barren.</p> <p>52.3-53.0 1% py and po associated with chl filled fractures.</p> <p>55.8-56.0 Milky white quartz vein, contains 3% coarse cpy and po associated with chl filled fractures.</p>	
82.30 TO 88.50	MAFIC DYKE «MA DY»	<p>Fine-med. grained dull blue-green dyke, 10% 3-5mm wispy chlorite clots parallel to well defined foliation @ .....</p> <p>5% fg qtz-carb veinlets.</p> <p>86.5-87.0 Broken and fractured core. Dyke has sharp contacts with adjacent diorite at 80 degrees CA, marked by q-c veining.</p>	50	<p>«CARB» Dyke moderately carbonatized, Fe carb stained near fractures.</p>		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
88.50 TO 175.00	QUARTZ DIORITE «QTZ DIORITE»	Coarse grained diorite as at 9.8, foliation poorly defined.   89.6-90.0  «MAG» Bands of massive magnetite 1-3mm wide in zone of strong chl and carb alteration.  98.9-99.0 Vuggy qtz-carb vein, barren.  102.5-102.6 Cm wide qv, rimmed with chlorite.   124.0-127.0  «QV'S» 1% qtz-carb - py - po veining generally < cm, larger vein at 124.2-124.6 rimmed with py.  127.7-128.1 Qtz - carb vein rimmed with massive chl.   132.4-133.0  «FLT» Late fault, blocky, broken oxidized core, weakly siliceous.  137.9-138.4 Carbonatized f-mg mafic dyke, contacts 80 degrees CA.  150.5-150.7 Qtz - chl filled slip, foliation at 60 degrees		«CHL,SER» Weak-moderate chlorite and poorly developed sericite; occurs as fg pale brown wisps, locally may be more strongly developed.   89.6-90.0  «CHL, CARB» Chlorite and carbonate in poorly developed shear at 70 degrees CA.   107.5-111.0  «SIL» Silica flooding, bleached zone.   114.0-116.7  «CHL, BIO» Zone of moderate chlorite and accompanying bio alt'n, chl + Bio totals about 30% of unit.   124.0-127.0  «SIL» Silicification bleaches rock adjacent to qv's.	«PY» Trace py, occasional speck of po and cpy. Sulphides occur as fg specks within matrix; and as blebs up to 2mm.   107.5-111.0  «PY,PO» Tr-1% fg specks of py and po.  130.0-130.5 Cm wide qtz-carb veinlet; tr py; silicified wallrock.   142.0-160.0  «PY» Trace py, as coarse, granular seams, +/- po, associated with chlorite filled fractures, and/or qtz veins.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		to CA. 156.5-157.0 Blocky, chloritic slip. 170.1-170.3 Typical fg mafic dyke.				
175.00 TO 184.10	DYKE SWARM «INT DYKES»	«QP» Interval consists of about 50% typical f-mg carbonatized mafic dykes with 10% mm qtz-carbonate veinlets. Dykes are 20-50cm long, with sharp contacts parallel to foliation at 60-70 degrees CA. Dykes contain 5% mm blue quartz crystals scatted throughout matrix. Dykes occasionally strongly biotitic. Dykes intrude typical c.g. qtz diorite, mineralized with 1% coarse pyrite stringers. Dykes occur at: 175.0-175.4 MA DY 176.6-177.4 «MA DY» 177.6-178.6 «MA DY» 182.4-183.6 «MA DY» 180.8-181.8 «QV» 184.1 Sand Seam		Moderate chlorite and sericite alteration through Qtz - diorite.		
184.10 TO 235.40	QUARTZ DIORITE «QTZ DIORIT E»	Typical cg quartz diorite, as at 9.8m. Foliation poorly defined @ ..... 192.2-192.3 «FLT» Late chloritic fault.	60	184.1-194.0 «CHL, SER» Moderate chlorite and sericite alteration. 192.0-193.5 «STG CHL» Zone of increased chlorite, totals 40% of unit, enveloping mm qtz-feldspar masses. 5% bio accompanies the chlorite. 194.0-203.0 «SIL» Unit silicified, bleached, qtz crystals clustered into amorphous masses. Weak chlorite, biotite and sericite alteration persists.	180.8-181.8 «PY» Tr pyrite in qtz-chl-tour veining injected into qtz-diorite. «PY» Tr py; occasional speck of cpy. 197.0-214.0 «PY» Tr-1% py as coarse seams associated with chlorite +/- qtz filled fractures; occasionally occurs as discreet clusters within matrix, or fg	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>{214.0-224.0} «QV'S» 1-2% cm wide qtz veining, chl + tour, angle to C.A. varies from 30-90 degrees C.A. Minor CaCO<sub>3</sub> within qv's.</p> <p>224.3-235.4 Blocky broken core, RQD = 70%.</p>		<p>{203.0-214.0} «CHL,SER» As at 184.1.</p> <p>{214.0-224.0} «SIL» Silica flooding associated with qtz veining.</p>	<p>disseminations.</p> <p>{214.0-224.0} «1% PY» 1% py, associated with chlorite rimmed 1-2cm wide qtz veining, or with chlorite filled fractures.</p>	
235.40 TO 239.40	FRACTURE ZONE «FRACTURE»	<p>Fracture / fault zone, broken core, RQD = 50%. 50% dark green chlorite; 30% quartz-carbonate veining of an irregular nature, often broken up, rimmed with chlorite. Sections of quartz - diorite 10-30cm through zone have strong chlorite alteration.</p> <p>Contacts with adjacent diorite sharp, upper at 80 degrees; lower 40 degrees.</p>		<p>«CHL» Strong chlorite altered.</p>	<p>«PY» Trace pyrite. occasional specks associated with chlorite.</p>	
239.40 TO 345.80	QUARTZ DIORITE «QTZ DIORITE»	<p>Massive - weakly foliated cg qtz - diorite, moderate - strong chl alt'd foliation @ ..... Qtz crystals 3-5mm in size, often clustered together.</p> <p>{239.4-243.0} «QV'S» Strong silica flooding, and 2% cm wide qv's, often with 1% py.</p> <p>242.0-265.0 Core often blocky and broken over zones 20-30cm long. RQD for interval 70%.</p> <p>{288.7-301.9} «5% QV'S» Diorite cut by several qv's rimmed by chlorite and diffuse silica veils, veins 15-20cm long, 1-2cm wide, subparallel to core axis. 293.9-294.9 QV</p>	40	<p>{239.4-243.0} «SIL» Silica flooding and associated quartz veining.</p> <p>{243.0-261.0} «CHL,SER» Moderate - strong chlorite, moderate sericite through unit.</p> <p>{274.1-279.4} «CHL» Moderate - strong chlorite alteration, associated sericite and biotite.</p>	<p>{239.4-243.0} «1% PY» Py within qv's.</p> <p>Balance of unit contains occasional speck of fg py within matrix.</p>	

HOLE NUMBER: DW-01

MINNOVA INC.  
DRILL HOLE RECORD

DATE: 21-November-1989

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		298.2-299.4 QV 300.3-301.9 QV  331.0-345.0 1% qtz veining; generally associated with chlorite.		{317.0-341.0} «STG SER, CHL» Strong pale yellow - brown sericite, some moderate - strong chlorite locally		
345.80 TO 352.50	INTER-MEDIATE DYKE QP «INT DY»	«QP» Fine grained pale green mafic to intermediate dyke containing tr-1% widely scattered 2-3mm round blue quartz crystals. Matrix contains chlorite and biotite as fine grained wisps. Sharp contacts at 85 degrees CA; dyke has strong phlogopite alteration within 30-50cm of contacts.				
352.50 TO 358.00	QUARTZ DIORITE «QTZ DIORITE»	Typical moderate - strongly altered quartz diorite; 30-50% 2-3mm blue quartz crystals.		«SER,CHL» Moderate - strong sericite and chlorite alteration.		
358.00 TO 365.10	INTER-MEDIATE DYKE QP «INT QP»	«QP» As at 345.8.				
365.10 TO 413.90	QUARTZ DIORITE «QTZ DIORITE»  E.O.H.	Coarse grained quartz diorite, weakly siliceous, quartz clustered in irregular masses; minor q-c veinlets. Massive.  371.7-373.7 Cm wide qtz-chl vein subparallel to CA. Pink - orange k-spar stained at 371.7.  End of Hole.		«CHL,BIO» Moderate to strong chlorite and bio altered, gives speckled appearance.		

HOLE NUMBER: DW-01

DRILL HOLE RECORD

LOGGED BY: PETER HARVEY

PAGE: 7



HOLE NUMBER: DW-01

ASSAY SHEET

DATE: 21-November-1989

Sample	From (m)	To (m)	Length (m)	ESTIMATES					ASSAYS					GEOCHEMICAL					COMMENTS		
				Cu %	Zn %	Py %	Po %	Mt %	Cu %	Zn %	Pb %	Ag g/t	Au g/t	Cu ppm	Zn ppm	Pb ppm	Ag ppm	Au ppb			
TBD-9970	21.00	21.40	0.40													8	10		0.2	5	BARREN Q.V.
TBD-9971	23.50	25.00	1.50			1										17	17		0.3	7	
TBD-9972	40.20	41.20	1.00			1	1									136	9		0.3	43	
TBD-9973	44.70	45.00	0.30													5	25		0.3	6	
TBD-9974	55.70	56.10	0.40	3			3									2050	84		1.8	11	
TBD-9975	67.70	68.30	0.60													84	34		0.4	7	Q-C VEIN
TBD-9976	127.70	128.10	0.40													6	40		0.4	23	
TBD-9977	180.80	181.80	1.00			TR										4	29		0.3	5	
TBD-9978	235.40	236.90	1.50			TR										3	93		1.0	17	
TBD-9979	236.90	238.40	1.50			TR										4	83		0.8	7	
TBD-9980	238.40	239.40	1.00													4	95		1.0	5	
TBD-9981	240.50	241.50	1.00			1										41	22		0.4	34	
TBD-9982	288.80	289.40	0.60													10	31		0.3	5	QV
TBD-9983	293.90	294.90	1.00													6	30		0.3	4	QV
TBD-9984	298.20	299.40	1.20													2	32		0.4	8	QV
TBD-9985	300.30	301.90	1.60													3	12		0.2	40	QV
TBD-9986	313.30	313.90	0.60													3	63		0.6	5	QV'S
TBD-9987	355.60	356.20	0.60													8	54		0.5	5	
TBD-9988	371.70	373.70	2.00													3	21		0.3	5	QV

Total amount of samples= 19  
 Total length sampled = 18.2M

Sample	From (m)	To (m)	Length (m)	SiO2 %	TiO2 %	Al2O3 %	FeO %	MgO %	MnO %	K2O %	CaO %	Na2O %	LOI %	Cu ppm	Zn ppm	Ni ppm	Ag ppm	Au ppb	TOTAL %	Pb ppm
MSD-2501	18.00	21.00	3.00	78.70	0.28	10.34	2.79	0.44	0.04	1.79	0.61	3.82	0.99	6	19	4	0.3	9	99.80	
MSD-2502	52.00	55.00	3.00	76.00	0.30	10.76	3.72	0.88	0.04	2.79	0.97	2.73	1.49	26	33	4	0.4	4	99.68	
MSD-2503	75.00	78.00	3.00	78.20	0.30	10.59	2.88	0.20	0.02	1.50	0.81	4.16	1.06	9	24	4	0.3	4	99.72	
MSD-2504	108.00	111.00	3.00	77.70	0.30	10.53	2.94	0.26	0.04	1.63	0.89	4.02	1.32	7	17	4	0.3	5	99.63	
MSD-2505	124.00	127.00	3.00	78.70	0.30	10.20	2.83	0.13	0.03	1.11	0.91	4.58	1.05	79	21	3	0.4	6	99.84	
MSD-2506	152.00	155.00	3.00	78.70	0.30	10.31	2.88	0.31	0.03	1.24	0.57	4.47	0.85	16	22	3	0.3	7	99.66	
MSD-2507	170.00	173.00	3.00	76.90	0.32	10.30	5.38	1.28	0.04	1.93	0.33	1.65	1.57	7	35	4	0.4	4	99.70	
MSD-2508	200.00	203.00	3.00	77.20	0.32	10.03	3.97	0.62	0.04	2.32	0.69	3.12	1.52	13	23	4	0.4	4	99.83	
MSD-2509	220.00	223.00	3.00	75.00	0.28	11.35	3.99	0.85	0.04	2.23	1.59	2.21	2.31	63	16	3	0.4	4	99.85	
MSD-2510	250.00	253.00	3.00	76.70	0.27	9.87	6.35	1.50	0.05	2.29	0.16	0.51	2.11	4	30	4	0.5	6	99.81	
MSD-2511	279.00	281.00	2.00	75.90	0.30	10.32	5.92	1.40	0.05	2.89	0.16	0.76	1.90	3	31	4	0.4	4	99.60	
MSD-2512	307.00	310.00	3.00	77.80	0.29	9.49	3.55	0.93	0.04	2.49	1.42	1.65	2.21	8	30	4	0.4	4	99.87	
MSD-2513	340.00	343.00	3.00	75.40	0.30	10.33	4.85	1.59	0.05	2.38	0.87	1.70	2.10	4	55	4	0.5	4	99.57	
MSD-2514	359.00	361.00	2.00	64.30	0.73	11.32	5.18	2.04	0.16	3.43	5.08	1.06	6.38	30	53	11	0.7	4	99.68	
MSD-2515	392.00	395.00	3.00	77.10	0.33	10.47	3.44	0.89	0.03	2.62	0.80	2.62	1.42	6	25	5	0.6	4	99.72	

Total amount of samples= 15  
Total length sampled = 43.0M

HOLE NUMBER: DW-01

RQD ASSAY

DATE: 21-November-1989

From (m)	To (m)	Length (L)	Sum Of Length S>= 8.38cm	RQD S/LX100	Number Of Fracturs	Fracturs Per Metres	Number Of Veins	Veins Per Metres	Angle	Comments
0.00	0.00	0.00	0.00	0	0	0	0	0	0	

HOLE NUMBER: DW-01

RQD ASSAY

PAGE: 10

DOCUMENT 1  
W8903-176  
Mining



900

*Assessment Library*

Name and Postal Address of Recorded Holder  
**MINNOVA Inc.** T-556  
 P. O. BOX 91, COMMERCE COURT WEST, TORONTO, ONTARIO M5L 1C7

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed <b>-840- 1040</b>	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <b>BQ</b> <input type="checkbox"/> Land Survey	PA	964755	140						
		964756	140						
		964757	140						
		964758	140						
		964759	140						
		964760	140						

All the work was performed on Mining Claim(s): PA 964755 *Valora Lake G 2565*

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

**CONTRACTOR:** CONNORS DRILLING LTD., 2007 WEST TRANS CANADA HIGHWAY, KAMLOOPS, B. C. V1S 1A7  
**DRILLING PERIOD:** JANUARY 16th - JANUARY 25th, 1988

D.D.H. #DW-01 - Total Footage <sup>1040</sup> ~~1,004~~ Feet/Days  
 To be used for this submission 840 Feet/Days  
 Retained for future submission ~~164~~ Feet/Days

Core Storage: MINNOVA Inc. - Sturgeon Lake Mine Site

*Assignment*  
 Pa. 964755 T556 (W8903-176) <sup>900 3100</sup>

ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILES OFFICE  
JAN - 5 1990

*Recorded*

Date of Report NOVEMBER 24, 1989	Recorded Holder or Agent (Signature) <i>Patrick Lewis</i>
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**Certification Verifying Report of Work**

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

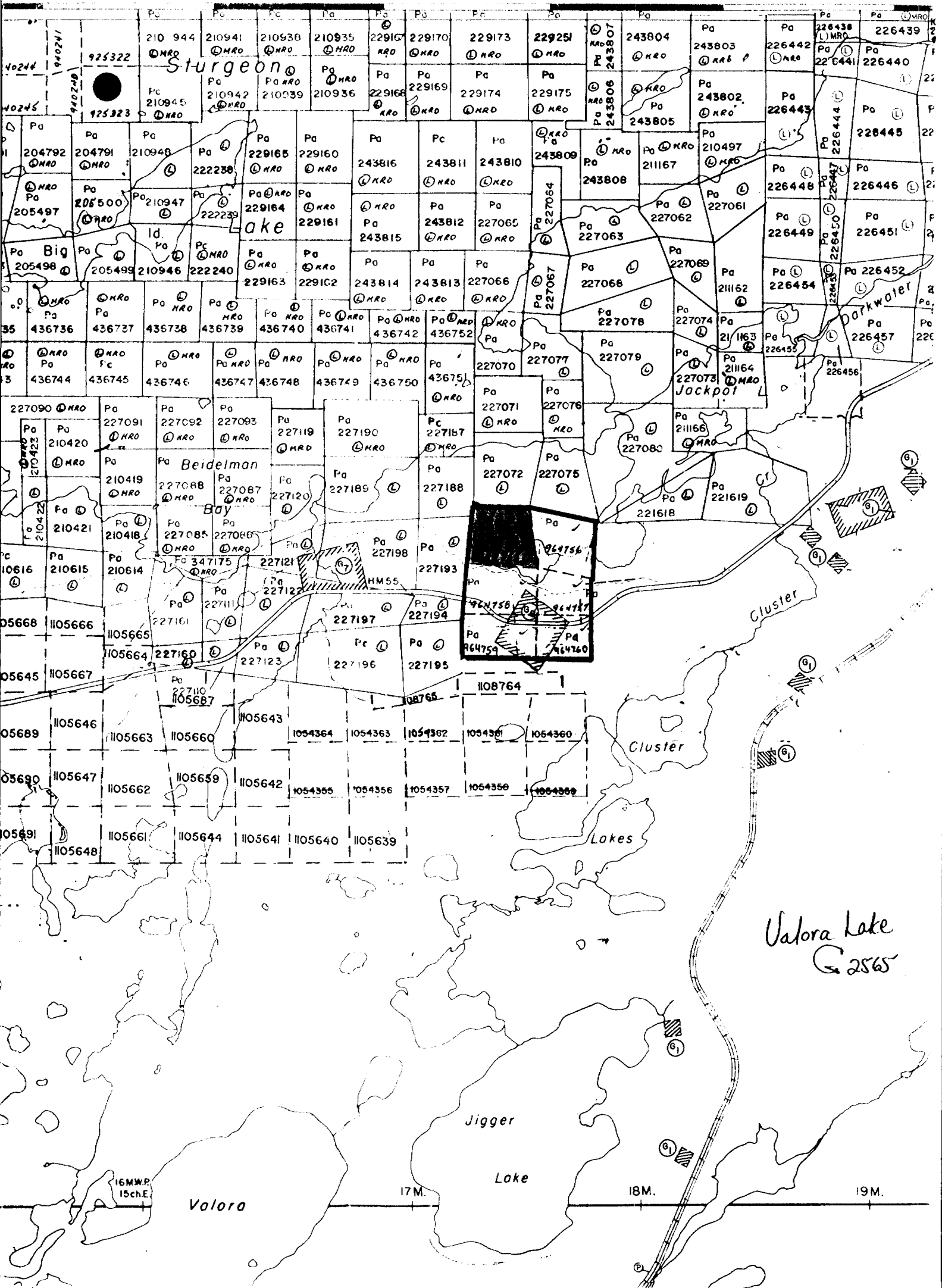
Name and Postal Address of Person Certifying  
**PATRICK LEWIS c/o MINNOVA Inc. 2606 VICTORIA AVENUE, EAST, THUNDER BAY, ONTARIO**

P7C 1E7

Date Certified NOVEMBER 24, 1989	Certified by (Signature) <i>Patrick Lewis</i>
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**Table of Information/Attachments Required by the Mining Recorder**

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil



Sturgeon Lake

Beideman Bay

Jigger Lake

Valora

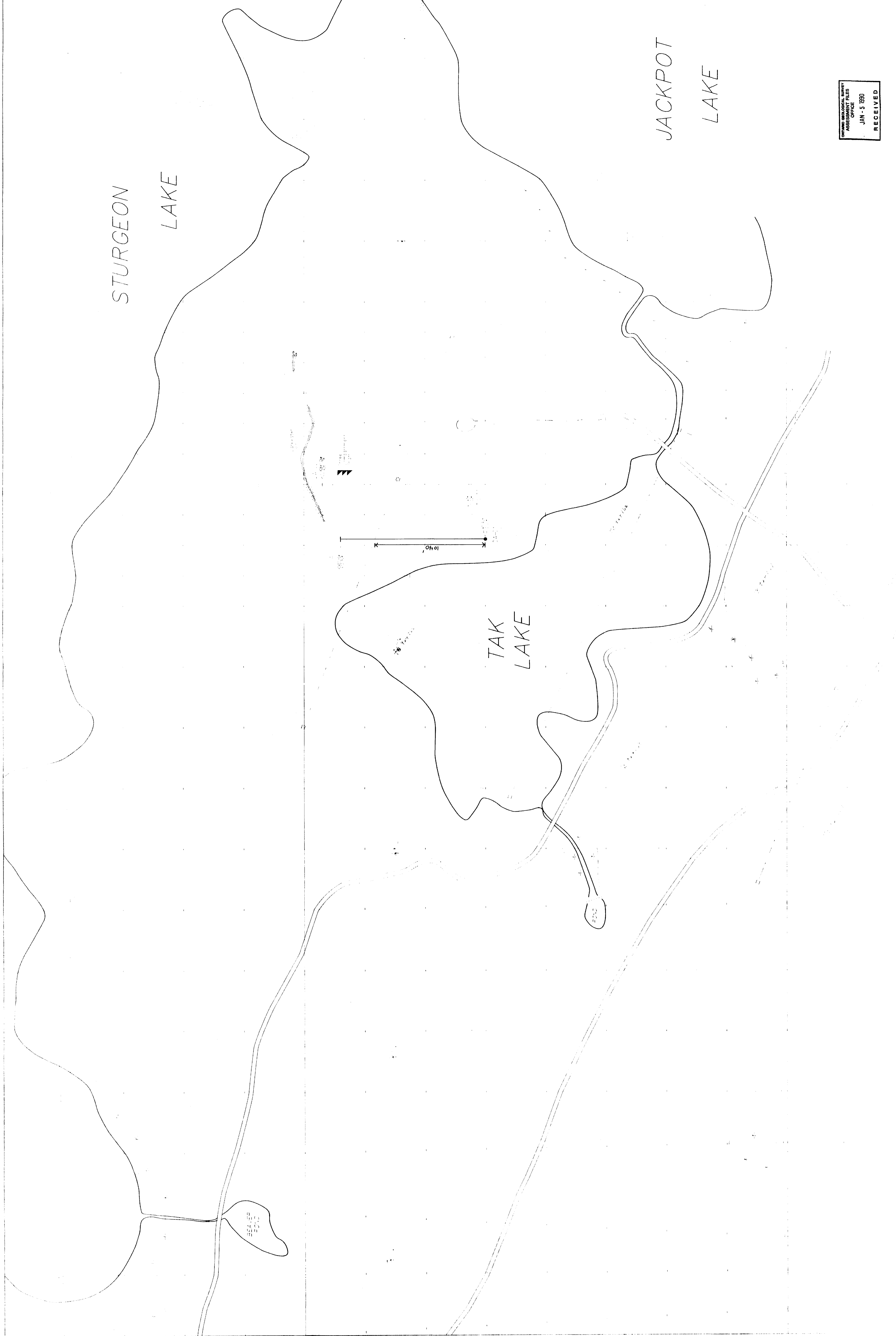
Valora Lake  
G 2565

16MWP  
15ch.E

17M.

18M.

19M.



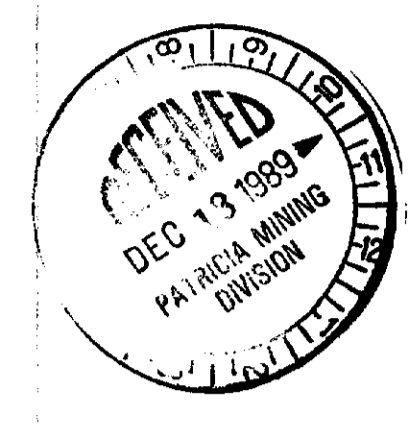
STURGEON  
LAKE

TAK  
LAKE

JACKPOT  
LAKE

1040'

ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILES  
OFFICE  
JAN - 5 1990  
RECEIVED



WEST STURGEON LAKE PROJECT  
DAMPENWATER AREA

MINOVA INC



*Pat. Loggs*  
*Dec 5 1989*