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Agrium

and a

Kapuskasing Phosphate Operations P.O Box 92 Kapuskasing, Ontario P5N 2Y1 (705)337-4209



CARGILL

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# **TECHNICAL REPORT ON THE WINTER 2000**

# EXPLORATION DRILLLING PROGRAM

Cargill Township District of Cochrane Ontario NTS 42 G/7

# RECEIVED

AUG 3 1 2000

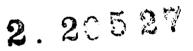
GEOSCIENCE ASSESSMENT OFFICE

Kapuskasing, Ontario August, 2000 Reno Pressacco, M. Sc(A), FGAC Geologist Phone: (705)337-4213 E-mail: Rpressac@agrium.com

### **SUMMARY**

A program of exploratory drilling was conducted on the site of the Kapuskasing Phosphate Operations during the period between January and April of 2000. The program was designed to search for additional phosphate-bearing material beyond the current limits of the proposed Open Pit Mine, and to attempt to expand the limits of selected ore zones.

A total of 2 483 metres of core were produced from 29 drill holes. For the most part, this method of drilling proved rather effective in the recovery of unconsolidated materials. Recoveries were somewhat variable with the different material types, but on an overall basis the recoveries were on the order of 70 to 80%. With some revisions to our procedures, this drilling technique provides a superior sample for our purposes to the alternatives of Reverse Circulation and Sonic Drilling. Specific advantages include increased depth penetration, ability to traverse hard / cemented sections, and a solid recovered core of unconsolidated material which is an immense aid in identification and analysis of the material.



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### STATEMENT OF QUALIFICATIONS

I, Reno Pressacco, currently residing at 33 Clark Street, Kapuskasing, Ontario do hereby certify the following:

- 1) That I am employed by Agrium General Partnership in the capacity of Geologist at the Kapuskasing Phosphate Operations,
- 2) That I hold the following degrees:

Applied Masters Degree in Mineral Exploration, 1986, McGill University B. Sc.in Geology, 1984, Lake Superior State College, Sault Ste. Marie, MI Geological Technology Certificate, Cambrian College, 1982,

- 3) That I have been practicing my profession since 1979, and
- 4) That I am a member of the following Associations:

Geological Association of Canada Porcupine Prospectors and Developers Association Prospectors and Developers Association of Canada

Kapuskasing, Ontario August, 2000

R. Inenaco Ang 29/00

Reno Pressacco, M. Sc(A), FGAC Geologist Phone: (705)337-4213 E-mail: Rpressac@agrium.com

## **1.0 INTRODUCTION**

A program of exploratory drilling was conducted on the Agrium Kapuskasing Phosphate Operation Mine Site located in Cargill Township during the period between January and April, 2000. This program was designed to search for additional phosphate-bearing material beyond the current limits of the proposed Open Pit mine, and to attempt to expand the limits of selected ore zones.

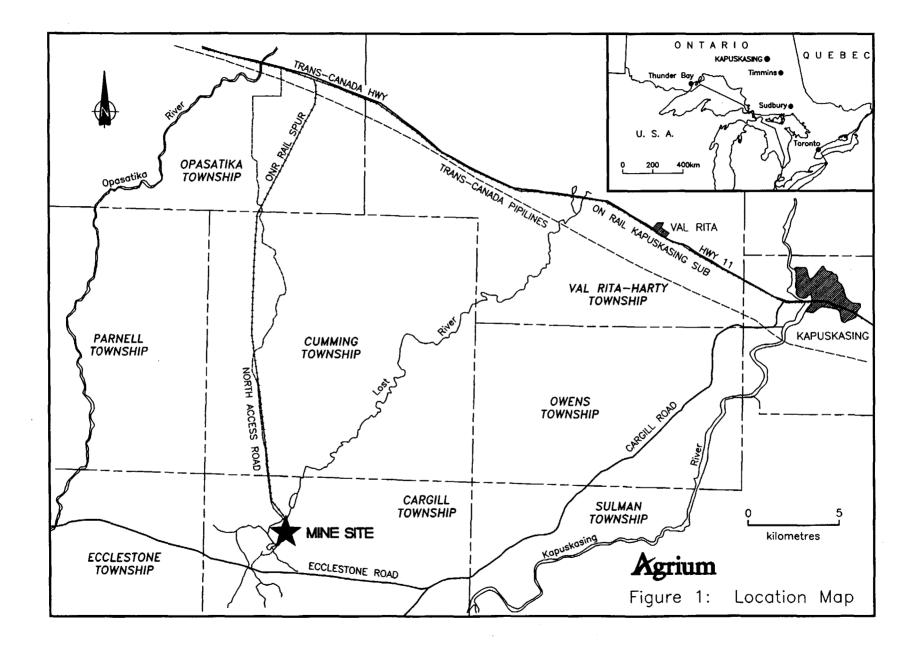
## 2.0 LOCATION, ACCESS, AND CLAIMS

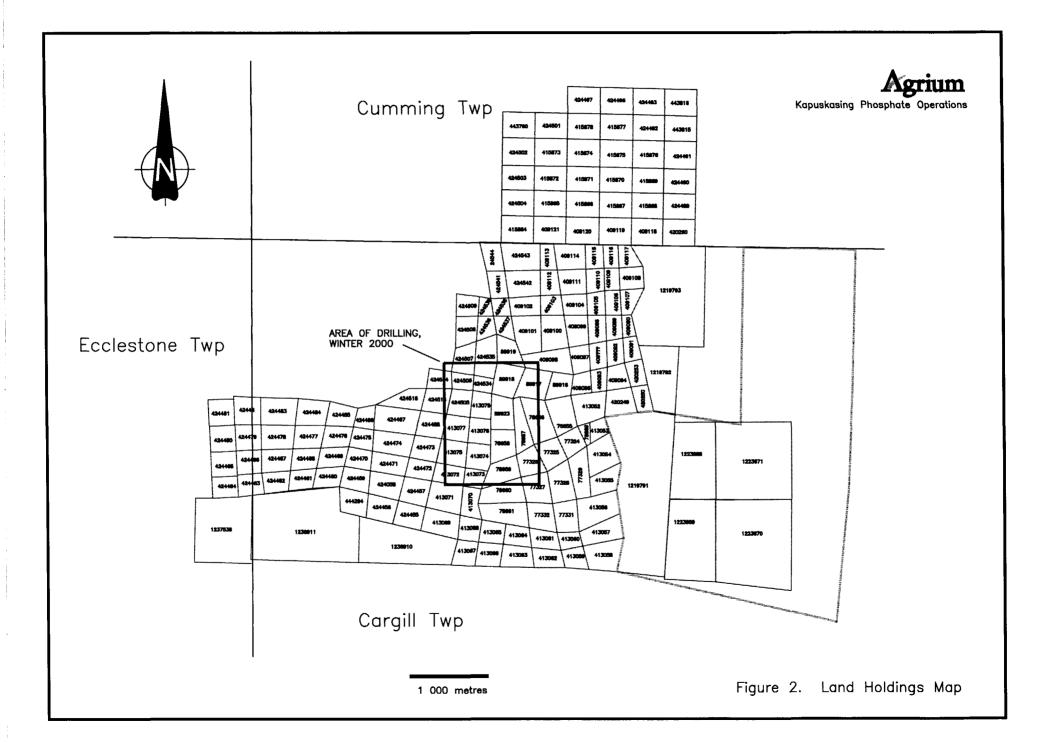
The mine site is located in the north western portion of Cargill Township, the southern portion of Cumming Township, and the eastern portion of Ecclestone Township, approximately 30 kilometres south west of the town of Kapuskasing, Ontario (Figure 1). Access to the mine site is provided by all-weather gravel roads departing from the town. The current land holdings are held in the name of Viridian Inc., a predecessor company to Agrium General Partnership, and constitute a series of Mining Leases, unpatented mining claims, and Licenses of Occupation (Figure 2). Table 1 provides the relevant details pertaining to the claims on which the work was done:

Claim No.	Lease No.	Area (Ha)	Amount Drilled (m)	<b>Total Cost</b>
89918	104714	19.89*	634	\$52,646.85
89917	104714	21.63*	933	\$84,933.52
78657	104714	16.32*	135	\$9,474.34
78658	104714	18.66*	331	\$20,099.83
413074	104395	2254.43	176	\$11,015.67
413076	104395	2554.43	172	\$15,543.22
413708	104395	2554.43	70	\$4,332.32
424534	104381	625.68	32	\$1,852.58
TOTAL			2 483	\$199,898

Table 1. List of claims and mining leases covered in the Winter 2000 drilling program.

\*Note: these claims are contained as individual parcels within the mining lease.





### **3.0 PREVIOUS WORK**

The first record of exploration work on the property was by Continental Copper Mines Limited who conducted a diamond drilling program in 1955 to examine a magnetic anomaly for it's potential of hosting copper-nickel mineralization. The phosphate potential of the property was first discovered in 1974, and subsequent work lead to a commencement of full scale production. A listing of the exploration and development activities on the property is given below:

1955: **Continental Copper Mines Limited**, Diamond drilling (rotary), 7 holes, 945 metres.

1970: Kennco Exploration (Canada) Limited, Diamond drilling (rotary), 6 holes, 1 062 metres.

1975: International Minerals and Chemical Corporation, Reverse Circulation drilling, 201 holes, 18 515 metres.

1980: Sherritt Gordon Mines Limited, Auger and Sonic drilling, 103 holes, 4 862 metres.

1981: Sherritt Gordon Mines Limited, Sonic drilling, 11 holes, 162 metres.

1985: Sherritt Gordon Mines Limited, Percussion drilling, 22 holes, 78 metres.

1995: Sherritt Inc., Reverse Circulation drilling, 25 holes, 2 315 metres.

1996: Viridian Inc., Reverse Circulation drilling, 78 holes, 7 530 metres.

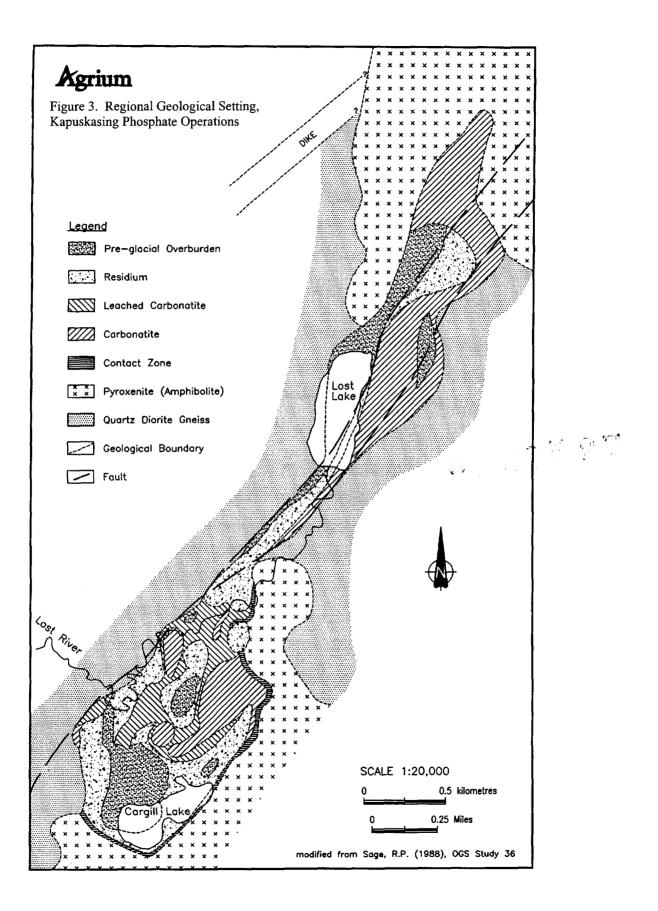
1997: Agrium Inc., Diamond drilling (Rotary), 7 holes, 624 metres.

1998: Agrium Inc., Sonic drilling, 5 holes, 403 metres.

### 4.0 GEOLOGICAL SETTING

The property overlies rocks situated within the Kapuskasing Structural Zone (KSZ). This is a northeasterly striking, fault-bounded feature which is interpreted be an up-thrusted block of material from the lower portions of the earth's crust. All of the rocks within the KSZ have been metamorphosed to either amphibolite or granulite facies.

The local geology consists of a core complex of multi-phased carbonatite rocks which are surrounded by a ring of pyroxenite, and have provided a U-Pb age date of 1907 Ma +/- 4 (Sage, 1988). These two rock types are in turn situated within quartz diorite gneisses that form a large portion of the Kapuskasing Structural Zone (Figure 3). The carbonatite host rock is sub-divided into two sub-types: sovite and rauhaugite. The sovite



is a medium to coarse grained, white, banded rock in which calcite is the dominant carbonate species and it includes accessory minerals such as phlogopite, magnetite, clinohumite, apatite, olivine, pyrrhotite, and amphibole. Apatite can reach 15% abundance in this rock type (Sage, 1988). In sharp contrast to the sovite, the rauhaugite appears as a massive, fine grained, dense, beige to tan coloured rock in which dolomite is the dominant carbonate species. Phosphate values can range to  $14\% P_2O_5$  in the rauhaugite.

The high grade ore at the Kapuskasing Phosphate Operations is derived from the weathering and dissolution of the soluble minerals in the host carbonatite rock (eg. phlogopite). This process has left behind a residue of the insoluble minerals, largely apatite crystals, which is termed residuum. This residuum is formed above the host carbonatite, and is in turn covered by glacial deposits of lacustrine clays, and boulder tills of the Pleistocene age. Limited data suggest that this weathering took place during the late Cretaceous period (Sage, 1988).

In terms of a reference grid, the UTM co-ordinate system has been adopted (NAD 27, Zone 17).

Additional details regarding the mining, milling, and processing at the Kapuskasing Phosphate Operations are given in Pressacco (2000).

### 5.0 DESCRIPTION OF THE WINTER 2000 DRILLING PROGRAM

A total of 2 483 metres of core were produced from 29 drill holes. All of the holes were spotted by means of a Trimble PRO XRS GPS system with referencing to known survey monuments. The collars of all of the holes were re-surveyed after their completion to determine the as-drilled hole location. The drilling was conducted by Bradley Bros. of Timmins, Ontario under the supervision of Peter Marenghi, (Geologist, Agrium Kapuskasing Phosphate Operation), with assistance from the author. The program began in late January, 2000 and was completed with the termination of hole AGR-00-030 on April 17, 2000. The drilling was conducted with the goal of recovering as much of the unconsolidated materials as possible, and to that end, a triple-tube arrangement using regular NQ-sized drill rods was utilized for those materials lying above the rock surface. Once the rock contact was reached, the drilling method switched over to a normal NQ-sized recovery method. All of the recovered material was logged by Peter Marenghi, and is currently stored at the mine site of the Agrium Kapuskasing Phosphate Operations. Copies of the detailed drill logs are provided in Appendix I, and plans and sections of the drill holes are given in Appendix II.

### 6.0 CONCLUSIONS

For the most part, this method of drilling proved rather effective in the recovery of unconsolidated materials. Recoveries were somewhat variable with the different material types, but on an overall basis the recoveries were on the order of 70 to 80%. With some revisions to our procedures, this drilling technique provides a superior sample for our

purposes to the alternatives of Reverse Circulation and Sonic Drilling. Specific advantages include increased depth penetration, ability to traverse hard / cemented sections, and a solid recovered core of unconsolidated material which is an immense aid in identification and analysis of the material.

## 7.0 **REFERENCES**

Clark, D.R., and Duncan, D., 1999, The Development of Agrium's Phosphate Mine in Kapuskasing, Ontario: <u>in</u> CD ROM proceedings volume of the 101<sup>st</sup> Annual General Meeting of the Canadian Institute of Mining, Metallurgy, and Petroleum.

Pressacco, R., 2000, Overview of the Agrium Kapuskasing Phosphate Operation in CD ROM Proceedings Volume of the Mining Millennium 2000 International Convention and Trade Exhibition.

Sage, R.P., 1988, Geology of Carbonatite-Alkalic Rock Complexes in Ontario: Cargill Township Carbonatite Complex, District of Cochrane: Ontario Geological Survey Study 36, 92 p.

Sandvik, P.O., and Erdosh, G., 1984, Geology of the Cargill phosphate deposit in Northern Ontario: *in* The Geology of Industrial Minerals in Canada, CIMM Special Volume 29, p. 129-13.

R. Anence Aug 29/00

Reno Pressacco, M. Sc(A), FGAC Geologist Agrium, Kapuskasing Phosphate Operations

# **APPENDIX** I

**DRILL LOGS** 

Agriu	ım	<u>DIVISI</u> Surfac	ON:	NORTHIN 5462 15	n.	SINTER Explan EASTIN 36772	11117 2000 LOGO 11G 279	elevatic 242	NC	DATE LOGGI LENGTH 71.0		25,2000 00 <u>DRI</u> SECTION	AG LL HOLE NO: A	,8-00-001 1 <u>6R-001</u> level
Kapuskasing Pl	10sphate Operati	ons Engine	ering Grid:											
<u>DIST</u> 7ιω	AZIM	DIP - 90	DIST	AZIM	DIP	DIST		DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
START DATE:	Feb	2,20 5,20	00				Location Sketo	h	<u>i</u>					
TOWNSHIP: CLAIM NO.: DRILLING CONTE PURPOSE:	<u>Cargill</u> <u>8991</u> вастоя: <u>В</u> Кс	7 (L.	ease # 10	4714)			-	367	° 367		367	367		368
RESULTS:							- <u>5462250N</u> 	367000E	° 367250E		500E	367750E		368000E 5462250N
WHY HOLE TERM CORE SIZE: CASING:	Nated: <u>Nor</u>	mal T				······	- - 5462000N		P 15	# B		9 8		546200QN
HOLE CEMENTEE NO. OF ASSAYS: NO. OF ICP:	_3					· · · · · · · · · · · · · · · · · · ·		l l l l l l l l l l l l l l l l l l l				eurse course		
NO. OF WRA: REJECTS/PULPS ; CORE STORED (L ft m	SAVED: OCATION): AG	RIUM	Кро т	NE SITE			5461750N						00 Exploration Plan No. C	Holes

Hole Number	AG-R - 001	Page	l of	3	
		V			

From (m)	To (m)	Lithological Code	Description	Recovery
C- C	ιψ.3		Clay: Pleistecene glacial lake clay, medium brown to grey in color. 1st meter is lingite material from swamp deposits. Total recovery is 4m = 28%. No pebbles or boulders present in This section.	4 m= <b>28%</b>
14.3	<b>2</b> 3-0		Boulder Zone: Very poor recovery 0.7m = 8%. Material lost in front of diamond drilling bit due to variance of hardness between The gravel material and The boulders.	0 /#
			Mixed variety of granite/divite gneissbeulde. with minor mafies	1

Hole Number A6-R	ool Page	<i>2</i> of	
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From (m)	To (m)	Lithological Code	Description	Recovery
23.c	32.5		Sand (quartz): Cretaceous pre-glacial Sand composed of mainly quartz grains with minor lesser amounts of K-feldspan, mice, magnetite. Grainsize is < Imm. Local granite gneiss boulders. Recovery = 6.5m = 68%. Boulders are mostly located in the lower part of the gection. (check Semple Allocol, from 23.0 to 24.0m) <sup>Im</sup> Note: Unit classified into Pleistocene due to gramite gneiss boulders.	6.5m =68%

,

Hole Number AFR-COI Page 3 of 3

From (m)	To (m)	Lithological Code	Description	Recovery
32-5	47.0		Weathered Pyroxenite: lime to olive green in color, sift brittle texture moderately magnetic. Local large flakes/slabs ~ I cm Olivine crystals. Local rust (hematite from breakdown). Total recovery	6.5m= <b>45%</b>
47.0	71,0		6.5 m = 45 %. - Check sample Allocod from 38.0 to 41 0 (Im) (poor recovery) Pyroxenite = pine green, badly broken	10.5m=
	1(=0		amphibole-olivine pyroxenite, very magnetic, blobs of hematite (red), locally weathered as above. Total recovery 10.5m = 44%.	44%
7. 0			_ Check Sample Alloce3 from 68.0 to 71.0 (1.3m) Georrecovery	
71.0			EcH.	

									Pt,	14.	avg 25,2000	נ	· **
•	DIVISION:		·	PROJECT: U	Vinter 2000		ED BY: PETE	L MALEN	M DATE LOGGE	D: Feb7/		HOLE NO:	AGR-00-002
Agrium	Surface Grid	d: _	NORTHIN 546215		EASTING 36768	G	ELEVATIO 242.	N	LENGTH		SECTION		LEVEL
Kapuskasing Phosphate Opera	ations Engineering	Grid:		- 					<u> </u>				
DIST AZIM	DIP -90	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	QIP
Eelo t	5,2000			L,	. <b>I</b>	Location Skete		· · · · · · · · · · · · · · · · · · ·					
	7,2000					-							
TOWNSHIP:Cargill			·····			-							
CLAIM NO.: 09917	-	# (0	47(4)			-							
PURPOSE:			<u> </u>			-							
				<u></u>		-							
RESULTS:					· <u> </u>	-		*					
				,	<u> </u>	-		4					
WHY HOLE TERMINATED:	1.10		······································		<u></u>	-							
CORE SIZE: NQ 3						-							
	econered					-							
						-							
NO. OF ASSAYS:	· · · · · · · · · · · · · · · · · · ·					-							
NO. OF WRA:	<b></b>					-							
REJECTS/PULPS SAVED:													
CORE STORED (LOCATION):	Λ					-							
	Agrium 1	~intsite											
₩ ₩													D & P 35361

Hole Num	ber	AGR-002	Page/ of3	
From (m)	To (m)	Lithological Code	Description	Recovery
440	8,20		Clay: Pleistocene glacial lake Clay, medium brown to grey in color. Recovery = 2.2 m = 58% No pebbles present in This clay.	2.2 m= 58%
8.20	19.70		Quartz Sand: Cretaceous pre-glacial sand of <1min grain size and containing up to 10% 0.5 - 1cm pelbles of varying composition Composed primarily of quartz, Kaolinite with lesser amounts of feldspar, micas, magnetite Recovery = 5.5m = 49%	5.5m= 49%
			* note: Unit is classified into The pleistocen based on stratigraphic position and inclusion of polymictic pebbles.	2

Hole Number AFR - 002 Page 2 of 3

From (m)	To (m)	Lithological Code	Description	Recovery
19.70	35.2		Boulder Till: Pleistocene? Light grey boulder till consisting of 30%. 0.5 cm - 0.5 m boulders/petbles of varying composition	5.7m =
			Contained in a matrix of Clay/fine Sand Recovery = 5.7m = 37%. The boulders are probably The main cause	37%
			boulders are probably The main cause of The low recovery.	
			20-23m = 0.6 m, all voch/boulders 23-26 m NO verovery	
			26-27m = 0.6m, all rock/boulders 27-32m = 2.6m, Till /boulders	
			32 - 35.2 m = 1.9 m All0004 From 27.0 to 28.0 m	
			A11005 28.0 - 37.0 m A11006 32.0 - 35.2 m	

3 3 Agr - 002 \_Page \_ \_\_\_\_\_ of \_\_\_\_\_ Hole Number

From (m)	To (m)	Lithological Code	Description	Recovery
35,20	60.45		Red Clay: Brick red to orimson in color, pastey and gritty texture. Gossan appearance, visible chunks of limonite and bedding foliation when core is split. Non magnetic over all. Locally, some sections are more ferrigeneous Than the rest of the section. Lower 5 meters grades into the following unit (red to brown). Total recoverg=	15-23m= 52.0%
65.48	(07.0		15.23m = 52.0%. Weathered pyroxenite 5-10% stringers of py/sidein beige / of white. Pyroxenite: First 4m are weathered and broken. Dark green, coarse grained pyroxenite. Strongly magnetic. Total Pyroxenite. Strongly magnetic. Total	e? 19.5m= 47%
	107.0	······································	EOH	L

PLM/. Aug 29,2000 ENGHI DATE LOGGED Feb 18/00 DBILL HOLE NO: AGR-00-003 LOGGED BY: P. MARENGHI PROJECT: Winter 2000 DIVISION: Agrium ELEVATION LENGTH SECTION NORTHING EASTING LEVEL 367633 301.0m 5462157 Surface Grid: Kapuskasing Phosphate Operations Engineering Grid: DIST DIST DIST AZIM DIP AZIM DIP DIST AZIM DIP DIST AZIM DIP AZIM DIP - 90 301 D Location Sketch Feb 7, 2000 START DATE: Feb 18,2000 FINISH DATE: Cargill TOWNSHIP: 89917 (Leave # 104714) CLAIM NO .: DRILLING CONTRACTOR: Bradley Bros 3670001 PURPOSE: Inner tube got stuck in sand. Hole caved in, Rods got stuck. 5462250N 5462 RESULTS: WHY HOLE TERMINATED: NQ-3 INQ CORE SIZE: CASING: 5462000N 546200QN HOLE CEMENTED: NO. OF ASSAYS: NO. OF ICP: NO. OF WRA: 5461750N 18 REJECTS/PULPS SAVED: Winter 2000 Exploration Holes CORE STORED (LOCATION): Agrium Minesite Ĺ] ft Scale: 1: 5000 Plan No Date: 27-Jan-00 🗹 m 777

#### 4 Agr - 003 **Hole Number** Page of Lithological Code Description From (m) To (m) Recovery Grey clay: Pleistocene glacial lare clay, grey 0.0 22.5 in color, several 3m boulder zones 11 m=49% where recuperation is very poor (< 10%) Some sandy sections locally. Total remperation = 11 m = 49% Quartz Sand: Pre-glacial quartz sand with 22.5 26.0 2.5m= minor feldopan, mica, magnetite ... Some 71% V Im sections of clay which is probably 63 boulder clay from the following unit. CI Boulders are mainly granitic gneiss. V Total remperation = 3.5m = 71% \* note: This unit is classified into the pleistocene due to stratigraphic position and chanacter VО lumictic

From (m)	To (m)	Lithological Code	Description	Recovery
26.0	30.0		Boulder Till: Greyish green clay containing about 30% boulders and pebbles of varging size. Boulders are mostly granitic gneiss. Some Sandy (quartz) sections. Recuperation = 3.5m = 88%.	3.5m: 88%
30.0	92.0		Weathered Intrusive?: Coarse grained (0.5cm) red, non-magnetic intrusive? Rock That weathers to a bleached pink. Black coarse grained mineral That 100Ks like garnet. Progressively weathering to mud down hole. Gradual lower contact. Recovery= 28.5m=46%.	28.5m <sup>-</sup> 46%
			* Note: Subsequent examination leads to interpreting This unit as an oslific unit of the red clay sequence cretareous age.	9

Exploration Drill Hole Log

From (m)	To (m)	Lithological Code	Description	Recovery
92.0	172.00		Red Clay: Brick red homogeneous clay with some sections of The above unit. Some visible textures of protolithe. No visible apalite xtals. Recovery = 76.5 m = 96%	76.5m= 96%
172.0	218.0		Mixed zone: Mixture of red clay, sovite, boulders, sand (silica) brown mud and bleached mud. Proportions are about equal but locally The sovite prevaits. Recovery=	= 60%
218.0	<b>2</b> 87.0		Large magnetite xtals throughout Brown B2 ore: Jan to brown cemented, and un consolidated B2 type ore. Very consistent and homogeneous. ~ 10-12% visible fine grained apatite, xtals. Check Alloo30, Alloo31	= 60 %

Agrium Kapuskasing Phos	phate Operation
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From (m)	To (m)	Lithological Code	Description	Recovery
287.0	301.0		Cemented ore / Rauhaugite : Badly broken, fine grained light grey to light tan rock with minor brown mud.	= 50%
301:O			EOH	

	DIVISION:		PROJECT: A	rnte zoc	<b>%</b> , 1000			PF	My 1.	<i>Аид</i> 29, 2000 <u>о</u> гш	2000	D-00-004
Agrium	DIVISION.	NORTHIN		EASTIN		ELEVATION ELEVATION		LENGTH		SECTION		LEVEL
<i>M</i> grium	Surface Grid:	546215		3675	71	241.7	7	116.0				
Kapuskasing Phosphate Operat	ions Engineering Grid:					·						
DIST AZIM	DIP DIS	r <u>AZIM</u>	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
116 0	-90											
START DATE:Feb	18				Location Sketc	h	4					
FINISH DATE: Feb	-											
TOWNSHIP: Corgill												
CLAIM NO.: 89918	(Lease #	(04714)			_							
PURPOSE:	,					367	367		367	. 367		368
						367000E	367250E		500E	367750E		368000E
· RESULTS:					5462250N							5462250N
					-						$\frown$	
WHY HOLE TERMINATED: 105	+ water @ 1	9m geologi	at Stoppo	d The hole					- 5. 4	3 2	$\langle \mathcal{A} \rangle$	XX
CORE SIZE:				· · · · · · · · · · · · · · · · · · ·		ţ		14 17		HAR .	$\mathcal{X}$	
CASING: NO-	-3 INR				5462000N		10 15 A					546200QN
			,		5402000N	<u>~</u>	16				Sinda	34020000
		,, ,, ,, ,, ,, ,, , , , , , , , , , , , , , , , , , , ,				X				MAT		
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REJECTS/PULPS SAVED:					5461750N				\$\$\$\$\$ \$\$\$ \$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\	
	Agnum Min	i. ta				Aut				Winter 20	00 Exploration	Holes
⊡ ft	14 rium 211	.)(1/2								Scale: 1: 5000	Plan No. D	ate: 27-Jan-00
∑r A-m					SURPAC2006 1 50	TAL SELEVALE INTER	mat Ional	71111 J. 18	<b>YHWH</b>	18	······································	ZEZ

Hole Num	ber	Agr - 004	Page of	
From (m)	To (m)	Lithological Code	Description	Recovery
0.0	14.0	······································	Glacial Clay: Grey gumbo clay. Recovery = 12m = 86%	12 m = 86%
14.0	32.0		Boulder till: Grey silty till containing up to 30%, pebble and boulders of predominantly granitic gneiss. Recovery = 5m = 28%,	5 m= 28%
32.0	44.0		Weathered granitic gneix: Becoming progressively weathered with depth, turning to a brown clay Sand/mud. Characteristic lime green mineral as fracture filling/plating. Recovery = 9.5 m = 79%	9.5m= 79%
44.0	77.0		Brown Sand/mud: Possibly weathered rauhangite from the next unit. Dark to medium brown.	19m= 58%

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Hole Num	ber	Agr - 004	Page <i>∂</i> of∂	
From (m)	To (m)	Lithological Code	Description	Recovery
			mud/sand. Recovery = 19m = 58%	
77.0	116.0		Ranhaugite: Tan brown aphanitic with numerous Cavities filled with xtalline calcite/quartz.	= 85%
116.0			FOH	
				-
				-
				-
				-

							Pot 11/1. Aug 29, 2000									
•		DIVISI	ON:		PROJECT: W	inter 200					ED:Feb 22		LL HOLE NO: AG	R-00-005		
Agriu	m			NORTHIN		EASTIN	ig 367527	ELEVATI		LENGTH 37.0m	I	SECTION		LEVEL		
Kapuskasing Ph	osphate Operat	Surfac ions	e Grid: _		<u></u>		101301		<u> </u>	5 Film						
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START DATE:	Feb	,21					Location Sketc	יייביים אוניים	ţ							
FINISH DATE:		22														
Township:	Carri	-1(					_									
CLAIM NO.:	39918	3 CLE	ase 4	104714)			_									
DRILLING CONTRA	ACTOR:B	redley	Brus				-							]		
PURPOSE:							-	367000E	367250E	<u></u>	367500	367750E	o	368000E		
							_	DOE	50E		OOE	50E		ODE S		
RESULTS:							- 5462250N							5462250N		
					,      ,		-		·		5 4	2 2				
WHY HOLE TERMI				·····			-						JS~ (			
CORE SIZE:	N0	1-3 /N	હ				-		15	# 13	-12 11-10	9 8 4				
CASING:							5462000N		-AA			ALL AB	cionat	546200QN		
HOLE CEMENTED:	<u> </u>						-		16 ▲			FIF.				
NO. OF ASSAYS:							-	X	114			1) 10 1 × 52				
NO. OF ICP:						<u> </u>	.    //									
NO. OF WRA:							5461750N #	3 /				» <u>[[[</u>				
REJECTS/PULPS SAVED:								A				Winter 20	00 Exploration	Holes		
CORE STORED (LO	CATION):	Agrium	Monesite				19	1 and a								
É⊒tt ∭S⊈m									That I Dhai		<b>WII //</b>	Scale: 1: 5000	Plan No. [	ate: 27-Jan-00		

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From (m)	To (m)	Lithological Code	Description	Recovery
0.0	11.0		6-lacial clay: Grey gumbo clay, very soft and consistent. Recovery = 3.55m = 32%	3.55m 32%
11.0	14.0		Pre-glacial Boulder Till: Grey boulder till containing 10-20% various sized boulders and pebbles of granitic gneiss (mainly) Recovery = 3m = 75%	3m=759
4.0	37.0		* Note: This boulder till unit is classified as pleistocene in age. Granitic gneiss: Well foliated grey-green granitic gneiss (biotite, quart, feldspar) Some local weathering turning the rock soft and a lime green color similar to epidote. Recovery = 12m = 52%. Badly broken core overall.	12 m= 52%

PL My (+ Aug 29,2000 PROJECT: Winter 2000 DATE LOGGED: MARCH 22/00 DRILL HOLE NO: ALA -00-006 DIVISION: LOGGED BY: P. MARENGH L Agrium NORTHING ELEVATION EASTING LENGTH SECTION LEVEL 367 122.6 240.18 5461253 63:00 Surface Grid: Kapuskasing Phosphate Operations Engineering Grid: DIST DIST DIST AZIM DIP AZIM DIP DIST AZIM DIP DIST AZIM DIP AZIM DIP 63 -90 0 Location Sketch March 20 START DATE: March 22 FINISH DATE: Cargell TOWNSHIP: 413076 (Lease # 104395) CLAIM NO .: DRILLING CONTRACTOR: Brodley BNJ. PURPOSE: RESULTS: Core barrell got full of sand. WHY HOLE TERMINATED: Na-3 INa CORE SIZE: CASING: HOLE CEMENTED NO. OF ASSAYS: NO. OF ICP: NO. OF WRA: REJECTS/PULPS SAVED CORE STORED (LOCATION): Agrium Moresite 1 ft 2-m

Agrium Kapuskasing Pl	hosphate Operation
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AGR-006 Page Z of Z Hole Number Lithological From (m) To (m) Code Description Recovery 0.00 VARVE CLAY 5.00 Ima Blewn , homogeneous clay 17.00 5.00 3m = Gumbo Clay GREY, homogeness clay 17.00 39.00 Commented ORE? 94 -Medium to dark gling forgmental Rock will some Usible spatio xTALS. Some Presidium over the Ist 2m. 39.00 63.00 CARboNATITE Rock (Sovite) Light to medium grey, bably broken, schistosits C Co to Cr.A. 1-2% contex Magnetite XTHS. Lexil concented 18.m = Sections. 63.0 Ens of Hole

Exploration Drill Hole Log

									50						
	DIVISION:		)N:	PROJECT: WINTE ZUW			LOG		LENGHI	AUG 29,2000			DRILL HOLE NO: AM-00-007		
Agriu	n			NORTHING EAS		EASTIN	G	ELEVATION		LENGTH		SECTION		LEVEL	
Kapuskasing Phos		Surface		5461250		367 180		242-0		44.0 m					
		Enginee	ering Grid: _			<u> </u>						•			
DIST 44	AZIM Ø	 90	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	
									i						
		20.11 2	2	L		•	Location Sket	L	- <b>1</b>				· · · · · · · · · · · · · · · · · · ·		
START DATE:		Jarch 2					-								
FINISH DATE:		Narch 2	7				-								
TOWNSHIP:	Corgil		#	<u></u>	······		-								
	•		# 10471	4)			-							1	
DRILLING CONTRAC	CTOR:	valley	BNS.				-								
PURPOSE:							-								
<del>.</del>							-								
RESULTS:							-		a.						
WHY HOLE TERMIN	ATED:						-		-						
CORE SIZE:	<u> </u>	-3 INQ					-								
CASING:	<u>.</u>														
HOLE CEMENTED:															
NO. OF ASSAYS:															
NO. OF ICP:															
NO. OF WRA:				·											
- REJECTS/PULPS SA	VED.														
CORE STORED (LOC		An	minesit												
⊡ ft ⊠-m	·	- yyr Lum	<u><u>y</u>-<u>m</u>-<u>y</u>-<u>(</u></u>	<u>*</u>											

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Page \_\_\_\_\_ of \_\_\_\_2 Hole Number AGR-007

From (m)	To (m)	Lithological Code	Description	Recovery
0.00	5.00		Gumbo clay	1m=
			GRET to BROWN VARUE/Gumbo	
5.00	17.00		Boulder Till	1.5m =
			40-50% GRANCHic giveiss for likero (some mytes) in	
			GREY Clay (last m = Sand).	
			2	
17-00	21.00		Cemented ORE?	3m = ko /
			Douch ghey framental Roich with Thesices of Visible	
			ApATITE KTALS	
21.00	44-00		CARbonAT.TE Reck (South)	22.5 =
-			Light to MEDIUM GREY CARboNATITE with TRACES	- M
ļ			of COARSE gRAWES Magnetile XTALS. Locally comented (@ 32m)	
44.0		EDH	Schistosty C Zo To CA.	

							pl.	MZ 1.	Aug 29,	200			
	DIVISION:		PROJECT: WINE 2000			LOGGED BY: P. MARENGH 1			D: Feb 23	23/00 DRILL HOLE		NO: ALR-00-008	
Agrium	Surface Grid:	NORT	NORTHING 5462063		EASTING		ELEVATION			SECTION		LEVEL	
Kapuskasing Phosphate Operation		rid:						110.0m					
DIST AZIM				DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	
	-90												
						······································							
START DATE: Fe	h 22				Location Sketch		i						
FINISH DATE: Fe	26 23												
TOWNSHIP: Cargill													
CLAIM NO.: 29917	Clease #	104714)											
DRILLING CONTRACTOR:				·									
PURPOSE:						367	ہ م م		367	367750E		3680005	
· on ooe.		····		<u>7</u> 3		367000E	367250E		500E	750E		DOOE S	
· RESULTS:				•	5462250N		<u> </u>			<u> </u>		5462250N	
		· · · · · · · · · · · · · · · · · · ·		39									
WHY HOLE TERMINATED:				<u>()</u>			1			2 2	$\langle \varsigma \rangle \rangle$	Sh I	
	-3 INQ	* <u> </u>		653			15	4 13	12 17 10		X	$\neg$	
CASING:				- Ot	5462000N							5462000N	
				N	19402000M	°°	16				, and		
				1		X				1 MAT .			
				i			H						
NO. OF WRA:				<u></u>		,				. ( ( )			
REJECTS/PULPS SAVED:					5461750N 18	4			\$\$\{~}}		·····		
CORE STORED (LOCATION):	Λ	. `.								Winter 20	00 Exploratic	n Holes	
	Agrium "	Millsit			J9 ▲					Scale: 1: 5000	Plan No.	Date: 27-Jan-00	
					SURPACZOON I SUR	PAL SOLUTION	hational						

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From (m)	To (m)	Lithological Code	Description	Recovery
0.0	13-6		Glacial Clay: Grey gumbo clay, soft + consistent. Recovery = 7.5m = 55%	7.5m=55%
[3.6	36.0		Rubble zone: Mostly boulders + pebbles of various sizes of granitic gneiss (mainly). (ould be part boulder till and part sand/clay. Very poor recovery.	5m=22%
			* Note: Unit classified as Meistocente boulder till.	

From (m)	To (m)	Lithological Code	Description	Recovery
36.0	44.0		Weathered Rock (?) - Sovite?: (oanse grained (mica, magnetite) in a green (lime)/ white matrix badly broken core Gradual fares into brown mud.	6m = 75%
44.0	56.0		Brown fine grained mud: Dark brown weathered? Local patches of lime green and darker brown. Probably weathered above unit.	9m = 75;
56.0	110.0		Pyroxenite: Dark green pyroxenite, broken core and locally very weathered. large mica "shedo" locally with minor white calcite/guartz Stringers, very magnetic rock.	= 100 %

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								PF M	1.1.	Aug 29, 2	2000		
•	DI			PROJECT: W	nter 2000	LOGGI	D BY: P. MAI	RENGHI	DATE LOGGI	EDFeb 25	DA DRIL	LHOLE NO: Ah	<u> R-00-009</u>
Agriun	<b>n</b>		NORTHIN		EASTING	212/14	ELEVATIO	N Ollo Z	LENGTH		SECTION		LEVEL
0	Su	face Grid: _	· · · · ·	5462057		367614		240.7	62.0				
Kapuskasing Phosp	hate Operations En	gineering Grid:	· · ·	<del></del>									
DIST	AZIM DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
62.0	0 -90												
													· · · · · · · · · · · · · · · · · · ·
											<u> </u>		
START DATE:	Feb. 74					Location Sketch	I	ġ					
FINISH DATE:	Feb 25												
	39917 (Le	20.5e # ic	474)										
	OR: Bridle												
PURPOSE:	OR:DFMILL		<del>.</del>				367	• 36		367	367		368
-UNFUSE.		<u></u>					367000E	367250E		SOOE	367750E	Ū	368000E
	Bad Com @	60 to 62	in rada	tialt ha	4 5	5462250N							5462250N
HESOLIS:	(it @ 22.	000000	<u>m, vuo</u>	igny , no	<u>n iv</u>								
	Bad Seam @ Cut @ 39m. red: Change b	de Que	loint v	an art				1		- 5.4	3 3		12
	TED: <u>Criwnge</u>	ive a gu	ingun re	onest.						0	All AL	X	$\forall \setminus  $
CORE SIZE:	NQ-3 1	NQ						15	# 13	12 11 10			
CASING:						5462000N		- HA			All AB		546200QN
HOLE CEMENTED:								<sup>16</sup>			RH		
NO. OF ASSAYS:							X	114			1)		
NO. OF ICP:													
NO. OF WRA:						5461750N /					·		
REJECTS/PULPS SAVI	ED:					5461750N					Winter 20	00 Exploration	Holos
CORE STORED (LOCA	TION): Ar o	um Minesi	`to			19 /	Aut				winter 20	on exproracto	n noica
⊡ ft	·										Scale: 1: 5000	Plan No.	Date: 27-Jan-00
🛛 m						SURPACZOOO - SO	PAC Soltware inter	hacional	IIII Va IP				

Hole Num	ber	Agr - 009	Page / of 2	
From (m)	To (m)	Lithological Code	Description	Recovery
0.0	17.0		Glacial clay: Grey gumbo clay. Some peat at The beginning.	.5m= 9%
17.0	26.0		Boulder Till: Mostly granitic gnews boulders with very little fill.	2.5m=28%
26.0	47-0		Weathered pyroxenite?: Dark to medium brown weathered rock from 26.0 to 38.0 grading into a dark green chloritic paste to 47.0. Weakly magnetic	6 m

From (m)	To (m)	Lithological Code	Description	Recovery
47.0	62.0	<u> </u>	Grey silty clay: Grey silty clay grading into a coarser sandy clay over the last 3m. Hole Stopped due to technical problems.	7.5m=50%
62.0				

						<i>D</i> 00						
	DIVISION:	PROJECT: Winle 2000			LOGGE	/ D BY: <b>Р. М.А</b> В	/ RENGHI	DATE LOGGE	DFeb 29/	00 DRIL	L HOLE NO: AL	R-00-010
Agrium	Surface Grid:	NORTHIN		EASTING		ELEVATIO		LENGTH 216.0m		SECTION		LEVEL
Kapuskasing Phosphate Opera	tions Engineering Grid:											
DIST AZIM	DIP DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
216 0	- 90											
		_										
							<u>ι</u>			lł		
START DATE:	eb 25				Location Sketch		ŧ					
FINISH DATE:	eb 29											
TOWNSHIP: Corgill												
CLAIM NO.: 89918	CLAQUE # 104	714)		<u></u>								
	ordley bors											
PURPOSE:	· · · · · · · · · · · · · · · · · · ·	······································				367000E	367250E		3675	367750E	o	368000E
						DOE	50E			N N N		
RESULTS:					5462250N	_		· · · · · · · · · · · · · · · · · · ·		Jue -		5462250N
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WHY HOLE TERMINATED:									= the t		VS (	JA I
CORE SIZE:	2-3 /Na						15	# 13	12 11 10 6	8	$\mathcal{A}$	
CASING:					5462000N	1 St				A Sa		546200QN
HOLE CEMENTED:						V/°	16			ALL .		N
NO. OF ASSAYS:						X	IIII			1 2011 52		
NO. OF ICP:												
NO. OF WRA:				<u> </u>								
REJECTS/PULPS SAVED:					5461750N 18	XA				Winter 201	0 Exploration	Holos
CORE STORED (LOCATION):	Agricum Mine	5, 6			19	A STA				Winter 200	o Exproración	10165
									<b>M</b>   //	Scale: 1: 5000	Plan No. E	ate: 27-Jan-00
⊠_m					SURPACZOOU - SURP	AL SOTUATE INCEN	hational					

From (m)	To (m)	Lithological Code	Description	Recovery
0.0	11.0		Glacial clay: Grey homogeneous gumbo clay	6.2m=56%
11-0	34.10		Glacial Boulder Till: Grey silty clay containing up to 30%. gramitic gneiss boulders (up to 0.5m) and pebbles. Grades into a finer pellile till ove The last 10m.	
34.10	41.30		Cretaceous green Clay/weathered: Olive green, slightly silty clay/weathered granite? (medium grained white/quartzite? where The green color comes from weather of stockwerk veins within the rock.	2

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Hole Num	ber	<u>Agr-010</u>	Page <i>2</i> of <u>4</u>	
From (m)	To (m)	Lithological Code	Description	Recovery
41.30	47.0		Silty Clay: Grey silty (quartz/feldspar) clay. Homogeneous with areas locally dark grey.	4.9m= 93%
47-0	56.0		Peat: 75% black, homogeneous peat (organic) which locally grades (interbedded) into a dark grey silty clay.	9.0m=100%
56.0	80.0		Medium Grained Silty (lay: Locally almost a sand grey silty clay with locally medium grained zones (quartz/feldspa Locally There are small beds (Im) of peat and Sand clay (sandy horizons)	)

Hole Num	per	Agr-010	Page3 of 4	
From (m)	To (m)	Lithological Code	Description	Recovery
80.0	(10.0		White clay: Talcy white clay (very light) Sometimes silty with local inclusions of the next whit. Gradual lower contact.	18.5m=62%
1 0.0	197.0		Red Porphyry Clay: Brick red clay with 15%. 0.5 mm - 0.2 cm dark brown rounded mineral. Above unit could be final weathered product of This vnit. The porphyroblasts decrease with depth. Clay Then becomes homogeneous and aphanitic. Grades into aphanitic red clay around 140 m. (probably all the same unit) * Note: The round porphyroblasts have since been	87m=100%

## Lithological From (m) To (m) Code Description Recovery interpreted as obites rested within the red hematitic unit. Weathered Pyroxenite ?: 197.0 216.0 16m=84% Dark green medium grained broken, weathered (to brown) pyroxenite. Rotted and rusty texture becoming more altered with depth. Brown caking due to drilling and poor water return. Weakly magnetic. 216.0 EOH

Page

Agr - 010

**Hole Number** 

#### Agrium Kapuskasing Phosphate Operation

of

							PL	Mg 1.	, 2000			
	DIVISION:		PROJECT: $W$	inter 2000		DBY: P. MAR		C DATE LOGGE	D: MARCH 2		LL HOLE NO: A6	R-co-ou
Agrium		NORTHIN	G	EASTING	3	ELEVATIO	N	LENGTH		SECTION		LEVEL
0	Surface Grid:		5462052		367514		240.8	69.0m	<u> </u>			
Kapuskasing Phosphate Opera	tions Engineering Grid:											
DIST AZIM	DIP DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
69 0	_90											
		-										
								<u> </u>	l	L	L	
START DATE: Marc	h1				Location Sketch		ł					
FINISH DATE: Man	h 2											
TOWNSHIP: Cargill												
	(Lase # 1047	414)										
DRILLING CONTRACTOR:												
						3670005	。		3673	367750E	0	368000E
						BOOE	367250E °		SODE	150E		
RESULTS:					5462250N							5462250N
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WHY HOLE TERMINATED:							1			2 2		Sh I
	12-3 INQ							14 17			$\mathcal{X}$	
0.401WQ					5462000N							546200QN
					3482000N	, <u>ç</u>	16 11 7		-	ALAS	25 ION	3402000
						X	▲/// / / / / / / / / / / / / / / / / /			I FIFT		
NO. OF ICP:										Carlo Carlo	ľ 💧	$\backslash$
NO. OF WRA:												
					5461750N 18					_ <u>}})</u>	//	
REJECTS/PULPS SAVED:	Δ			·		,XE				Winter 20	00 Exploration	Holes
CORE STORED (LOCATION):	Agrium Mine	s.te			19						<u> </u>	
∐ # ⊠-m						The Solidate Inter	hational		<b>MH) / //</b>	Scale: 1: 5000	Plan No. [	Date: 27-Jan-00

Hole Number\_ACR - C// Page \_\_\_\_\_ of \_\_\_\_\_

From (m)	To (m)	Lithologi c Code	Description	Recovery
0.0	11.0		GLACIAL Gumba clay	26m = 24%
11.0	32.0		GREY PRED ELAciAL guardo chey. Baulder Till 60-Toto bookdens of MAINTY GRANITIC grueiss and matics, hardly	4.3.m = 20%
32-0	43.0		MAY Clay. WEATHERED RAWHANGITE	
			Rusty BROWN STREMYly WEATHERED RASHAUgite (20% Rock), B2 ORE AppenRANCE. Lucal Rusty yellow (Geather) staning No Usible Apartic XTALS (Interm. Hent Pock / Resolving).	7m = 64%
43.0	69.0		Rashaugite	
			TAN BROWN, Aphanitic, basty BRUken, Joliahow = 70 -> 80° to C.A.	9.n = 35 %
			LOCAL SECTIONS of BROWN westhered Resolution (Red) but Rich	
69.0			consists of 90 %. EOH	

								PF 1	1. 1.	Aug 29	, 2000		
Agrium	<u>DIVISIO</u> Surface		NORTHI	PROJECT: WINK 2000 NORTHING EASTING 546 2057			LOGGED BY: P. MARENGH )		•		SECTION		<u>R-00-012</u> LEVEL
Kapuskasing Phosphate Operation	ations Enginee	ring Grid: _						·					
DIST AZIM 74 O	DIP - 90	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	
START DATE: Mard						Location Sketch	b	i					
FINISH DATE: <u>March</u> TOWNSHIP: <u>Cargi</u> CLAIM NO.: <u>89918</u>	ll Clease		)			-							
DRILLING CONTRACTOR:	Bredley	Briz					367000E	367250E °		367500E	367750E	0	368000E
RESULTS:						5462250N		 		= <u> </u>	3 2		5462250N
CORE SIZE:	Q-3/NG	2						15	13	12 11 10	g 8	R .	
CASING:						5462000N	,				XXX AA	cionte	546200QN
							X	▲/// J			THE		Y
NO. OF ASSAYS:							4				and and	N /	
NO. OF WRA:	,											Ŵ	
REJECTS/PULPS SAVED:						5461750N 18				A LI		\	
CORE STORED (LOCATION):	Agoru	m Mint	site			19	3670000				Winter 20 Scale: 1: 5000	00 Exploration	h Holes Date: 27-Jan-00

Agrium Kapuskasing Phosphate Operation	
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Hole Numl	oer	AGR- 012	Page of	
From (m)	To (m)	Lithological Code	Description	Recovery
0.0	11.0		Glacial Clay: Grey gumbo clay.	9.2m=84%
11.0	29.0		Boulder Till : Mainly granific gneuss with minor mafic boulders and pebbles of varying sizes.	
29.0	74.0		Weathered Granific Gneiss: Badly weathered, coarse grained granific gneiss Weathering gives greenish brown gritty/sandy texture. Badly broken core	15m = 33%
74.0			E04	

								(	Pt M	1. K.	Aug 29,20	υU	
	DIVISIO	N:		PROJECT: W	inter 2001		D BY: P. NA	RENGHI	DATE LOGGE	D: MARCH C		LL HOLE NO: Ah.	R-00-013
Agrium			NORTHIN		EASTIN		ELEVATIO	N	LENGTH		SECTION		LEVEL
$\mathcal{O}$	Surface	Grid: _		5462056		267414	4	240.2	50.0-				
Kapuskasing Phosphate C	Derations Engineer	ring Grid:											<u> </u>
DIST AZIM	DIP JO	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
50 0													
·····													
			ll								L		L
START DATE:M	larch 4					Location Sketch	I	ć					
FINISH DATE:M	arch 5					-							
TOWNSHIP:Ca	raill					_							
	18 Clase	# 1047	(4)			_ [							
DRILLING CONTRACTOR:						_							
PURPOSE:	,						367000E	367250E		3675	367750E	o	368000E
						_	00E	50E		OOE	50E		OOF S
RESULTS:						5462250N							5462250N
WHY HOLE TERMINATED:											3 3	\ <~ \	Sh I
CORE SIZE:	NQ-3 11	VQ						5	14 B	12 11 10	a a A	Ŕ	$\neg$
CASING:						5462000N							546200QN
HOLE CEMENTED:							, ç	16			FAIL		
							X					, 🔰 /	
 NO. OF ICP:								H					$\backslash$
 No. of WRA:							1						
REJECTS/PULPS SAVED:		··· ··· ···				5461750N 18	3			\$\$\$~J\$}	{		
CORE STORED (LOCATION):	Δ.	A. 15					1 the				Winter 2	000 Exploration	n Holes
	Hgoum	Minisit	<u>لا</u>	·····							Scale: 1: 5000	Plan No. I	Date: 27-Jan-00
∑ Mrm						SURPACZOOO I SUR	HAC SOTTATE THE	hational		MM1/11		·	ZIZII,

Hole Num	ber	Agr - 013	Page of	
From (m)	To (m)	Lithological Code	Description	Recovery
0.0	11.0		Glacial Clay: Grey gumbo Clay.	7.5m=68%
[[.ø	29.0		Boulder Till: Mainly granitic gneiss and mafic boulders + pebbles of varying sizes. No mud or sand.	3:2m = 18%
29.0	5 <b>0</b> .0		Granitic gneiss Badly weathered lime green to veddish grey granitic gneiss	11m= 52%
50.0			EOH	

									Pf W	$rl \cdot r$	lg 29, 200	oo O	
<b>Agrium</b> Kapuskasing Phosphate Operation	DIVISION: Surface Grid: ations Engineering Grid:		PROJECT: WIN L& 200 NORTHING EASTING 546 2053		G	OGGED BY: P. MARENSH I ELEVATION 240.8		DATE LOGGED: MARC LENGTH 44.0m				148 <i>-00-014</i> level	
AZIM 44 U	DIP -90	DIŞT	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM		DIST	AZIM	DIP
FINISH DATE: TOWNSHIP: CLAIM NO.: CLAIM NO.:	(Lease	^	1 +14 }		I	Location Sketc	h	<u></u> ,	1	L	- <b></b>	I	1
DRILLING CONTRACTOR:	redley h					- 5462250N	367000E	• 367250E	ľ	3675005	367750E	٥	368000E 5462250N
	16-3 1					- - 5462000N		15	4 13		3 3 9 8		546200QN
							•	16 ▲			a const		
REJECTS/PULPS SAVED: CORE STORED (LOCATION): t t M m	Agrica	m Min	ese te			19 19 50000 - 5000 - 500	2 3671000 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				Winter 20 Scale: 1: 5000	00 Exploratio	n Holes Date: 27-Jan-00

Hole Num	ber	Agr - 014	Page / of /	
From (m)	To (m)	Lithological Code	Description	Recovery
0.0	12.0		Glacial Clay: Grey gumbo Clay, homogeneous and consistent.	3.5m=29%
12.0	20.0		Boulder Till: Mostly only boulders and pebble of granitic gneiss and mafics. No visible till (mud).	l.8m=23%
20.0	44.0		Granitic gneiss: Banded / foliated granitic (quartz, feldgar, mica) gneiss. Local weathering (Rotted aspect). Badly broken core. Foliation at 45° to core axis.	11m=46%
44.0			EOH	

Pt Mg 1. Aug 29,2000

٨. •	DIVISIO	ON:	·	PROJECT:	inter 2000	) LOGGI	ED BY: P. MA	RENGHI	DATE LOGG	D:MARCH C	<u>6/00</u>	RILL HOLE NO: V	141-00-015
Agrium	0.4	. 0.14	NORTHIN	<sup>1G</sup> 5462056	EASTING		ELEVATIO	N	LENGTH		SECTION		LEVEL
Kapuskasing Phosphate O	Surface perations			7162030		761 176		243.2	29.0.				
	Engine	ering Grid: _						·····	···			··	
DIST AZIM	DIP 90	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
	MA I T-			L				L	J		I		_l]
START DATE:	March 5		· · · · · · · · · · · · · · · · · · ·			Location Sketch		f					
	March 6												
TOWNSHIP: <u>Cov</u>	gill (10	4	(	<u> </u>									
CLAIM NO.:999(	Λ.	nce # 101	{ / (4 )										
DRILLING CONTRACTOR:	Bradley	Bros							~~~~~				
PURPOSE:					··		367000E	367250E		367500E	367750E	o	368000E
·					<u></u>	1	ODE	50E			SOE		e S
RESULTS:						5462250N							5462250N
										6			
WHY HOLE TERMINATED:												15-1	Sh
	JQ-3 /NO	¥						15	1 13	12 11 -10 6	8	H T	
CASING:						5462000N	(ST)					Asima	546200QN
HOLE CEMENTED:							//°	16			AL		
NO. OF ASSAYS:							X	11145					
NO. OF ICP:											CH CH		
NO. OF WRA:							Í				$\left( \right) $		
REJECTS/PULPS SAVED:						5461750N 18	XA			₩ <u>~</u> _}}[		\	
CORE STORED (LOCATION):	Agrium	Minls.te				19	The second				Winter 2	2000 Exploratio	n Holes
<u> </u>							100 A				Scale: 1: 5000	Plan No.	Date: 27-Jan-00
<b>⊠</b> m					Į	SURPACZOOG - SURPA	a Sortware Interna	itional	11/1/ 🖵 🎼				

From (m)	To (m)	Lithological Code	Description	Recovery
0.0	19.0		Olacial Clay: Organic Matter over 1 <sup>st</sup> 5m. Grey, homogeneous gumbo clay	5.5m=46%
12.0	18.0		Boulder Till: All boulders and pell-les (no mud) of granitic gneiss and matics of Varijng Sizes.	-  m=  7%
18.0	29.0		Granitic Gneiss: Redich grey, foliated granitic gneiss. Badly proken core. Local weathering. RQD = 30%. Recovery = 8.7m = 79% Could be Spread out.	- 8.7m=79%
29.0			EOH	-

							1	NO W	1. 1.	Ng 29,2	000	
•	DIVISION:		PROJECT: W	inter 2000		ED BY: RMA				06/00 DRIL		R-00-016
Agrium		NORTHIN	IG	EASTING	à	ELEVAT	ON	LENGTH		SECTION		LEVEL
0	Surface Grid:		5461970		367 143		242.2	32.0 ~	<u> </u>			
Kapuskasing Phosphate Opera	Engineering Grid:			<u></u>				·····				
DIST AZIM	DIP DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
32 0												
							-					
		l					i	L	L	l		L
START DATE:Mar	ch 6				Location Sketcl	3	;					
FINISH DATE: Man	ch 6											
TOWNSHIP:Corgill												
CLAIM NO .: 42453	34 Clease #	04381)								<u>.</u>		
	rulley bors											
PURPOSE:	/ 					367000E	367;		367500	•	0	368000E
						300E	367250E °		SOOE	SOE		
RESULTS:					5462250N							5462250N
												$\mathcal{I}$
WHY HOLE TERMINATED:										2 2		. \$6
	-3 /NQ						-	14 17		At A	$\varkappa$ `	$\exists \setminus$
CASING:					5462000N		12 -					546200QN
HOLE CEMENTED:					34020001		16		-	FALL POS	- Ale	
						X				MAT		
NO. OF ICP:	· · · · · · · · · · · · · · · · · · ·	- <u> </u>								Carlo Carlo		
NO. OF WRA:											N N	
REJECTS/PULPS SAVED:				~	5461750N	3				╻╵╵╵╵		<u></u>
	Λ	· · · · · · · · · · · · · · · · · · ·								Winter 200	0 Exploration	) Holes
CORE STORED (LOCATION):	Agotum r	rinds, to			19	13				1		
∑ m					SURPACZOOD - SUR	HAL SOLCHARE THEE	rhacional		777777////////////////////////////////	Scale: 1: 5000 P	lan No. D	Date: 27-Jan-00

Hole Number Agr - 016 Page \_\_\_\_\_ of \_\_\_\_\_

From (m)	To (m)	Lithological Code	Description	Recovery
0.0	11.0		Glacial (lay: Grey gumbo clay, some (0.5m) organic material at The begining	6.4m=58%
N-0	32.0		Granitic gneiss: Reddish grey, white, green granite (feldspan, quarty, mica) gneiss. Well foliated (at 90° to core axis). Badly broken core. Some local weathering. Could be boulder till at The beginning (1st and 2nd meter but unsure.	12.5m=60%
32.0			EOH	

*PL W]* . *Αυg* 29, 2000 DRILL HOLE NO: <u>Ah</u>Λ-<u>α</u>-υ

•		DIVISI	ON:		PROJECT: 4	inter 200	υ LOGO	GED BY: P. MA	RENGHI	DATE LOGG	ED: MARCH	23/00 DRI	LL HOLE NO: 174	1-00-017
Agriu	m	Surface	e Grid:	NORTHIN 54612		EASTIN 367 216	G	ELEVATION 242	N	LENGTH		SECTION		LEVEL
Kapuskasing Ph	osphate Oper	ations	ering Grid:											
DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
59	0	-90												
											<u> </u>			
START DATE:		Mard	1 22				Location Skete	ch	į					
FINISH DATE:		Mard												
TOWNSHIP:		·					-							
CLAIM NO.:			# int	Lias			-							
			•	(1)			-							
DRILLING CONTR	астоя: <u>/</u>	redley	12/13	<u> </u>			- ]							
PURPOSE:							-							
							-							
RESULTS:			····			<u> </u>	-		1					
				···			_		4					
WHY HOLE TERM	INATED:						_							
CORE SIZE:	Na	-3 /N	Q											
CASING:														
HOLE CEMENTED							-							
NO. OF ASSAYS:							-							
NO. OF ICP:							-							
NO. OF WRA:							-							
REJECTS/PULPS S	SAVED:						-							
CORE STORED (LC	DCATION):	And	un Mile	`+.			-							
L] ft	·						- [							
K⊈m							l							•

\_\_\_\_\_Page \_\_\_\_\_ of \_\_\_\_\_ Hole Number AGR-017

From (m)	To (m)	Lithological Code	Description	Recovery
0.00	8.00		Gumbo Clay GREY homogenous (Some barrow = value (ly)	2m=
<b>F</b> .00	17.00		Boulder Till 30% large (0.4m) gelsniki greiss + pobler (some	6m=
			ma files) in a galy clay.	
17.04	35·00		RESIDIUM (AGRE) Black APATTE Rich (25%) SANDY ORE.	3m =
35.00	59.00		CARboNATITE ROLL (Sovite)	23m=
			Light to medium gray CARbonatile. First ion very soft and Brittle. 5% CORSE GRAINED Magnetite XTALS Schistosity well Developed locally @ 70-80° to C.A.	2011-
59.0			E.O.H.	

									The My 1. Avg 29, 2000								
		DIVIS	ION:		PROJECT: W	nter 2000	LOGGE	DBY: 2MAR		•			LHOLE NO: A	1-00-018			
$\boldsymbol{o}$	Agrium		ce Grid:	NORTHING 5461793		EASTING		ELEVATION		LENGTH 29.0m		SECTION		LEVEL			
Kapuskasing Ph	osphate Oper	ations Engine	eering Grid: _														
DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP			
				[													
START DATE:	Mari	46					Location Sketch		į			<u> </u>					
FINISH DATE:	Mar				<u></u>												
	Cargill																
CLAIM NO.:	41307	ELL	Pase # 10	438)													
DRILLING CONTR	-																
PURPOSE:								367000	367250E		3675	367750	0	368000E			
								OOE	SOE		OOE	SOE		ODE S			
RESULTS:							5462250N					Jaco V		5462250N			
									ا ۲۰۰۰ د		5 A	3 2					
WHY HOLE TERMI													XS~ (	A			
CORE SIZE:	No	-3 (NO	2						15	# 13	12 11 10	9 8					
CASING:							5462000N					XXX A B	soft	5462000N			
HOLE CEMENTED:	:							$\chi$	▲////			RH					
NO. OF ASSAYS:				· · · · · · · · · · · · · · · · · · ·				4				or all or st					
NO. OF ICP:									1111				Ń				
NO. OF WRA:							5461750N 18		()				//				
REJECTS/PULPS S						······		AAS	) /			Winter 200	00 Exploration	1 Holes			
	DCATION):	- Agni	im Mind	site			19	100				<del></del>	······································				
⊡ n Ø-m							SURPACZOOD - SURP	AC Solitable Incert	harional			Scale: 1: 5000 1	Plan No. I	Date: 27-Jan-00			

Hole Number		<u>Agr-018</u> Page of								
From (m)	To (m)	Lithological Code	Description	Recovery						
0.0	5.5		Glacial Clay: <u>Brown Vanue Clay with local organics and</u> grey gimbo clay.	4m=73%						
5.5	29.0		Mafie Unit (Rock): Medium to coarse grained pyroxene, amphibold Magnetile Unit. Very homogeneous, no Veining. Specks of pyrite. Weakly to med. magnetic. Massive granular texture.	, 100%						
29.0			EOH							

The M. 1. Aug 29, 2000 PROJECT: WINTER 2000 LOGGED BY: P. MAREN GHI DATE LOGGED: MARCH 07/00 DBILL HOLE NO: ALA-00-019 DIVISION: Agrium SECTION NORTHING EASTING ELEVATION LENGTH LEVEL 237.0 5461 655 366 888 41.0m Surface Grid: Kapuskasing Phosphate Operations Engineering Grid: DIST AZIM DIP -10 0 41 Location Sketch START DATE: \_\_\_\_\_ March 7\_ March 7 FINISH DATE: TOWNSHIP: \_ Cargill CLAIM NO: 413078 (Leave # 104385) DRILLING CONTRACTOR: Bredley Bros 3670001 367250E 368000E PURPOSE: 5462250N 5462 250N RESULTS: WHY HOLE TERMINATED: NO-3 INQ CORE SIZE: CASING 546200QN 5462000N HOLE CEMENTED: NO. OF ASSAYS: NO. OF ICP: NO. OF WRA: 5461750N 18 REJECTS/PULPS SAVED: Winter 2000 Exploration Holes CORE STORED (LOCATION): Agrim minesite 19 D ft Scale: 1: 5000 Plan No. Date: 27-Jan-00 777 Xm SURPACZOOD - SURPA

Hole Number		Agr-019	_Page of							
From (m)	To (m)	Lithological Code	Description	Recovery						
0.0	8.0		Glacial Clay + Organics.	4 inches						
8.0	17.0		Boulder Till: Very well formed boulda till. Grey mud with Small sized (20 cm to 5 mm) pebbles.	3.5m=39%						
17.0	41.0		Weathered Granitic gneiss: Badly broken, moderately weathered, Coarse grained, reddish grey granitic gneiss. with local more mafic green sections which Could be banding whithin The gneiss.	14m=58%						
41.0			EOH							

MA My 1. Aug 29, 2000 DATE LOGGED: MARCH 26/00 DRILL HOLE NO: ALR-00-020 PROJECT: WINTE ZONO DIVISION: LOGGED BY: P. MARENGH) Agrium NORTHING SECTION EASTING ELEVATION LENGTH LEVEL 5461250 367 310 238.8 105.0m Surface Grid: Kapuskasing Phosphate Operations Engineering Grid: DIST DIP DIST AZIM AZIM DIP AZIM DIP DIST AZIM DIP DIST AZIM DIP DIST -90 105 1) March 25 Location Sketch ź START DATE: March 26 FINISH DATE: Corgill TOWNSHIP: 78652 ( Lave # 704 714) CLAIM NO .: Bridley DRILLING CONTRACTOR: Bos PURPOSE: RESULTS: WHY HOLE TERMINATED: NO Water return, geologist stopped The hole. NO-3 INO CORE SIZE: 1 CASING: HOLE CEMENTED: NO. OF ASSAYS: NO. OF ICP: NO. OF WRA: REJECTS/PULPS SAVED Agnium Minesite CORE STORED (LOCATION): 🗌 ft 🛛 m

# Hole Number AGR-0200 Page 2 of 3

From (m)	To (m)	Code	Description	Recovery
0.0	20.0		Boulder Till 60% Chanitie queiss + majic rebbbs (0.2-0.3 um) mb Boulders >0.5 cm in a grey clay	5.5 <sub>M =</sub>
20.0	<b>55.00</b>		Siloceous SonDy Clay nection growed Sandy clay, colars Ariging From white to grey to Brann. Local intervals of Reat inaterial (2-3m) and Locally clay becomes fire granied. No results From sludges indicating good ROS grades.	20m =
50.0U	54.5		Ped clay Ro howegen eus chy (Beil RD)	4.5 m = 100 %

From (m)	To (m)	Lithological Code	Description	Recovery
54.50	60.0		s, Ity Clay white to reduce grey silty clay walking in bedding flayering visible locally. Storep Lower	6m =
9.0	65.0		Contact with Sovik. NEATHERED CARbours TITE? CREENISH RED (ODI/this?) CARbourT.E.? RUSTY/green in	- - 1.5m=
5.0	95.0		Colar High GRADE RESIDUIN (A ORE) A ORE, block sondy Residuin contraining of the 30% fine apatile xtals, Very homogeneous section.	/0 <i>m</i> =
5.0	105.0		CARbans TITE (Soute) Rock, light grey carbonatite contrining up to 15 % VERY (GARSE grand Magnelite XTALS (up to Seen), Sharp	10 m z

105.0

E.O.H.

Exploration Drill Hole Log

DUSING         PROJECT. Work 2002         LOGGED PY. P. MAREAULT         DATLIGGED HARCA 24/00         Deliti Hole No. 44/-00-021           Kapuskasing Phosphato Operations         Section         LENKING         ELEVATION         LENKIN         LENKIN         LEVEL           Kapuskasing Phosphato Operations         Section         Section         Level         Section         Level           Visit Action         DIP         DIST         AZM         DIP         DIST         AZM         DIP           State One:         DIP         DIST         AZM         DIP         DIST         AZM         DIP           State One:         March 23         Improvement of the temperature of t									Ľ		,			
NORTHING         EASTING         ELEVATION         LINGH         SECTION         LINGH         SECTION         LEVEL           Kapaskasing Phosphate Operations         Surface Ord         57/4/200         3/4 - 0         3/5 - 0         3/		DIVISION:	Р	BOJECT: W	nte 2000	2 106		RENCHI	DATE LOGGE	D: NARCH Z		L HOLE NO:	LENO: AGR-00-021	
Kapital Constrained for the point of the point	Aarium					G								
Dist         AZM         DIP         DIST         DIST		Surface Grid:	546120	0	367	170			35.0m					
DIST         AZM         DIP         DIST         AZM	Kapuskasing Phosphate Operation	ONS Engineering Grid:								<u> </u>				
35       0       -90         STAFT DATE       March 23         FINISH DATE       March 24         TOWNSHIP:       Cocali (1)         CALINA 00:       78/652         CLORE OF # 104 714 )         DRALLING CONTRACTOR:       Bars         PURPOSE         MARCE CEMENTED:         NO. OF RASAYS:         NO. OF ICP:		-	1 A7184 1			L A7114			I 471M		DIST	A71M		
START DATE:       March 25         FINISH DATE:       March 24         TOWNSHIP:       Covait         CLAIM NO:       78652         CLOBED # 104714         DRILLING CONTRACTOR:       Bradley         Brows       Bradley         PURPOSE:	35 U				DIST	AZIM	DIP	0.51						
START DATE:       March 24         FNISH DATE:       March 24         TOWNSHIP:       Corqi <sup>11</sup> CLAIM NO:       78652         ZBS2       LB252         DRILLING CONTRACTOR:       Brzdley         Britting Contractor:       Brzdley         PURPOSE:														
START DATE:       March 24         FNISH DATE:       March 24         TOWNSHIP:       Corqi <sup>11</sup> CLAIM NO:       78652         ZBS2       LB252         DRILLING CONTRACTOR:       Brzdley         Britting Contractor:       Brzdley         PURPOSE:					······································							·		
START DATE:       March 24         FNISH DATE:       March 24         TOWNSHIP:       Corqi <sup>11</sup> CLAIM NO:       78652         ZBS2       LL2050 # (04714)         DRILLING CONTRACTOR:       Brzdley         Britting contractor:       Brzdley         PURPOSE:						L	L	Li	l				L	
FINISH DATE:	START DATE: Man	ch 23		· · · · ·		Location Sket	ch	ł						
TOWNSHIP:       Corqill         CLAIM NO:       72652       Llasso # 104714)         DRILLING CONTRACTOR:       Bredley       Bars         PURPOSE:	110	ich 24												
CLAIM NO:       78652       22626 # 104714)         DRILLING CONTRACTOR:       Brodley       Brodley         PURPOSE:						-					-			
DRILLING CONTRACTOR:	TOWNSHIP:	11000 # 11117	F(A)			-								
PURPOSE:         RESULTS:         WHY HOLE TERMINATED:         CORE SIZE:       NQ - 3 (NQ         CASING:         HOLE CEMENTED:         NO. OF ASSAYS:         NO. OF ICP:	~	0		<u>.</u>	<u> </u>	-								
RESULTS:         WHY HOLE TERMINATED:         CORE SIZE:       NQ - 3 / NQ         CASING:         HOLE CEMENTED:         NO. OF ASSAYS:         NO. OF ICP:	DRILLING CONTRACTOR:	valley Mos				-								
WHY HOLE TERMINATED:         CORE SIZE:       NQ - 3 [NQ         CASING:         HOLE CEMENTED:         NO. OF ASSAYS:         NO. OF ICP:	PURPOSE:					-								
WHY HOLE TERMINATED:         CORE SIZE:       NQ - 3 [NQ         CASING:         HOLE CEMENTED:         NO. OF ASSAYS:         NO. OF ICP:	<u> </u>					_								
CORE SIZE:       NQ - 3 / NQ         CASING:	RESULTS:													
CORE SIZE:       NQ - 3 / NQ         CASING:						-		d						
CORE SIZE:       NQ - 3 / NQ         CASING:			·····	<u> </u>		-								
CASING:         HOLE CEMENTED:         NO. OF ASSAYS:         NO. OF ICP:		2 (110				-								
HOLE CEMENTED:	CORE SIZE: $702$	2-5 100												
NO. OF ASSAYS:	CASING:													
NO. OF ICP:	HOLE CEMENTED:		<u> </u>											
	NO. OF ASSAYS:													
	NO. OF ICP:													
	NO. OF WRA:													
	·				<u></u>									
REJECTS/PULPS SAVED:		A												
CORE STORED (LOCATION): Agrium Minesite		Agrium Mines	ita											

Nr M. 1. Aug 29, 2000

2\_\_\_\_\_of\_\_\_\_2\_\_\_\_ Hole Number AGR-021 \_Page \_

From (m)	To (m)	Lithological Code	Description	Recovery
0.00	8.00		Builder Till	6. am= 13%
800	35.00		CARbonatite Rock (Swite)	26mc % %
			Light to medium after callowatite with local Sections (XIm) of programmatal Rock (cemented?) AND up to 5% medium grained to 2-0 3000 magnetite XTALS. Schostosity at about 30° to C.A.	
35.0			KIALS SCHUS KISITY AT ABUY F SA LO C.FT.	

									1.	pt 14 1. Aug 29, 2000								
Agrium	ı	<u>DIVISIO</u> Surface		NORTHIN 546120	G	EASTIN 367 8	G	ED BY: 7. MA ELEVATIO 242-	RENGHI		D: MARCH			<u>R-00-022</u> LEVEL				
Kapuskasing Phosph	Kapuskasing Phosphate Operations Engineering Grid:																	
DIST SG	AZIM	DIP -90	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP				
												-						
									<u> </u>									
	N Corgill 658	larch larch CLear Dredley		7:4)			Location Sketc	h										
	ED:					· · · · · · · · · · · · · · · · · · ·												
CORE SIZE:	No-	3 (	NQ															
CASING:		<u> </u>																
HOLE CEMENTED:				·····														
NO. OF ASSAYS:																		
NO. OF ICP:						<u> </u>												
NO. OF WRA:	· · · · · · · · · · · · · · · · · · ·																	
REJECTS/PULPS SAVED	D:																	
CORE STORED (LOCAT)	ION):/	Agviu~	Mines.	`te														

\_\_\_\_\_Page \_\_\_\_\_ of \_\_\_\_\_ Hole Number AGR -022 Ζ

From (m)	To (m)	Lithological Code	Description	Recovery
0.00	8.00		Gumbo Clay Gley homogeneous clay.	5.5m =
8.00	17.00		Boulder Till 40% Lalge 0.8m gravite greiss + metic bouldets + pebbles mused in a geter clay.	4.5m =
17.00	50.00		CARbonatite Rock (Sovite) Light to Medium gley to light gleen calbonatie containing up to 2016 COARSE grand (0.2-0.5 cm) add formed mynetic xTALS. Schustosit = 70-85° to C.A. Up to 10% mich ATALS of VARious Sized. Vely blocky ground.	26m=
	56.00		E.O.H.	-

									pf	M. 1.	Aug	29, 2000	<b>CO</b>								
Agrium Kapuskasing Phosphate O		<u>DIVISIC</u> Surface Itions Engine		PROJECT: Winter 2000 LOGGE NORTHING EASTING 5461218 367378		<u>GED BY: Р. МАКСАСН)</u> ELEVATION 239.5		•				<u>NO: AFNR-00-02 3</u> LEVEL									
DIST	AZIM U	DIP _ りい	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP							
						-															
START DATE: FINISH DATE: TOWNSHIP: CLAIM NO.: DRILLING CONTRAC PURPOSE: RESULTS:	<u>Сол</u> 78658		6 e + 104	714)			Location Sketo	71													
WHY HOLE TERMINA	<u> </u>	10-3	MQ				-														
HOLE CEMENTED:																					
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·																	
REJECTS/PULPS SAV CORE STORED (LOCA		Agrium	Mintsi	tz																	

From (m)	To (m)	Lithological Code	Description	Recovery
6.00	8 00		Doulder Till 40% grenitic queiss boulders (0.3-0.5m) in grey clay	1.Sm =
8.00	38.00		CARLONATITE Rock (Sovite) hight to mechin grey CARLONATILE with up to 15% well developed magnetite ATALS. Schustosite = 0° to C.A. well (5%) developed po XTM's. Locally.	27m =
38,0			E.D.H.	

Exploration Drill Hole Log

								Th	ZK		Aug 29,	2000		•
Agriur		<u>DIVISIO</u> Surface		NORTHIN 5461 8	IG	2014 2000 EASTIN 367 57	G	SED BY: P.M. ELEVATIO 240	ARENGH )		ED: APRIL 13	,	LL HOLE NO: A	<b>R</b> -00-024 LEVEL
Kapuskasing Phos		Engine	ering Grid: .		<u>_</u>						<u> </u>			
DIST	AZIM O	DIP - JC	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
START DATE:	(lpri	1 12					Location Skete	:h	ł					
FINISH DATE:	apri						-							
	Cargill						-							
	8657 (	Lear	o # (02	4714)										
DRILLING CONTRAC	TOR:	rulley	Bros				_							
PURPOSE:														
RESULTS:	Lost of in Sand		return	@ 4m	. Rods	Stuck	-							
WHY HOLE TERMINA	TED:			·····										
CORE SIZE:	Na	-3 (1	νü											
CASING:														
HOLE CEMENTED: _		<u> </u>												
NO. OF ASSAYS:														
NO. OF ICP:				<u> </u>										
NO, OF WRA:	·····													
REJECTS/PULPS SAV														
CORE STORED (LOC/	ATION):	Agrium	~ Mires	ito										
⊡tt S⊠1 m		ı												

Hole Number\_\_\_\_\_\_\_AGR-\_024\_\_\_\_\_Page \_\_\_\_\_\_\_of \_\_\_\_\_

From (m)	To (m)	Code	Description	Recovery
0.00	10.0		Gumbo Cley Dark grey, howogenous.	7.5m = 75%
10.00	/35.00		Sovite	
			COARSE GRANED CARDONATINE COLORS VARY FROM GREENISH white, pulple, redish BROWN to greyish white. About 10-15% COARSE grand	106.5 = 85%
			(0.3 cm - 0.5 cm) MAgnetite, 10-15% (dalk gheen Flakey) (0.3 - 0.4 cm). Local weathering displayed by Residual looking MATERIAL. Some magnetite KTALS reaching to 3 cm. Numerous	
			ATAlized CASIFIES Schistes, ty (where visible) is 2 70-80° to C.A. IST 30 m Looks FRAgmental (comented ore) but is pobably	1
			JUST Sovite AS some sections within this som has the same Teature as the sovite below. FRAgments are humagenous.	
135.0			E.O.H.	

USD       0       -30         START DATE:       March 29         FNISH DATE:       (April 12)         TOWNSHIP:       Carriell         CAIM NO:       89917         CLEARE # 104714       DRILING CONTRACTOR:         DRILING CONTRACTOR:       Breatler         PURPOSE:							(1	$\mathcal{A}$	ŀĘ∮	Aug Z	9,20cu		• ••
Dist         AZIM         DIP         DIST         AZIM         DIST         AZIM <th><math>\mathcal{O}</math></th> <th>Surface Grid:</th> <th></th> <th>4G</th> <th>EASTING</th> <th>3</th> <th>ELEVATK</th> <th>DN</th> <th>LENGTH</th> <th>APR, / ED: MARCH</th> <th></th> <th>LHOLENO: AA</th> <th></th>	$\mathcal{O}$	Surface Grid:		4G	EASTING	3	ELEVATK	DN	LENGTH	APR, / ED: MARCH		LHOLENO: AA	
START DATE:       March 29         FINISH DATE:       April 12         TOWNSHIP:       Carain         Image: Carain       13         Township:       Carain         Image: Carain       13         Township:       Carain         Image: Carain       13         Image: Carain       <	DIST AZIM	DIP DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
START DATE:		- 10											······
START DATE:													
CASING:	FINISH DATE: TOWNSHIP: CLAIM NO.: 2 99(7- DRILLING CONTRACTOR: PURPOSE: RESULTS: WHY HOLE TERMINATED: WHY HOLE TERMINATED:	pri/ 12 [ Large # 10 radley Bros water return a		" @	138m bl	-	h			•			
NO. OF WRA: REJECTS/PULPS SAVED: CORE STORED (LOCATION): Agnium minds, to 1 th	HOLE CEMENTED: NO. OF ASSAYS: NO. OF ICP: NO. OF WRA; REJECTS/PULPS SAVED: CORE STORED (LOCATION):	Agrium mints,	.`tc		+ight								

•

# Hole Number <u>A6R-025</u> Page <u>2</u> of <u>3</u>

From (m)	To (m)	LITHLOGICAL Code	Description	Recovery
0.00	8.00		ORGANIC PEAT	0.6m = 0.1%
8.00	<i>∂</i> 0.0a		Boulder Till Only boulders of granitic greass + matics with no mud. Thates locally of weathered rust coolored Rock.	2m = Gai7%
20.00	77.00		CEMENTED ORE? FRAGMENTAL CONSOLIDATED grey/brown/TRAN/green Rock (HARD) with hocal 0.5 m sections of Rusty Brann soft weathered Rock AND hocal sections of CARbonstike (RAUHAUGITE) 0.2-0.3 m. VERY Few visible APATIE XTALS GRADES INTO the ADJACENT GREEN MICAGEONS UNIT. VERY Blocky DECTION.	14.3 m = 25%
77.00	85.50		WEATHERED MAPIE? VERY MICACEOUS RESIDUIN, MOCIUM GREEN, VERY SUTT, GRADES locally INto A greet. No VISIBLE apatite.	5.3m = 62 %

3

Hole Number AGR - 2.5 Page \_\_\_\_\_\_ Of \_\_\_\_\_

From (m)	To (m)	Code	Description	Recovery
85.50	101.00		WEATHERED MATE? TAN to DALK BROWN MERthered MICACEOUS UNIT LOCAL Spots of GREEN RESEMBLING The NEXT UNIT. REMARCHT STRUcture (schistus, ty) ST.II Visible.	7.3m = 47%
101.00	j3j.00		MAtic UNIT MEDIUM to DARK GREEN, WEAKLY MAYNETIC, Jule grained matic. FIRST 7m, the Roch is very soft (weathered) but progressively becomes badded with Depth. Very micaceous / childrike + looks slightly like & pyronenik.	147m = 49%
131.00	158.00		RAWHAUgite Tow to dark Brown, Locally STRongly weathered, patchy while Very bably broken, schistosity @ 70-80° to C.A. 10% small blebs of magnetite. LAST 6 m very weathered.	15.3.n = 57%
158.0			€.Ø.H.	

pl My 1. pug 29, 200 DRILL HOLE NO: A4-R-00-026 PROJECT: Winter ZOOU DATE LOGGED: MARCH 00 LOGGED BY: P. MARENCH) DIVISION: SECTION LENGTH LEVEL ELEVATION Agrium NORTHING EASTING 5461 902.3 367 635.8 124.0m Surface Grid: Kapuskasing Phosphate Operations Engineering Grid: DIST AZIM DIP DIST AZIM DIP DIST AZIM DIP DIST AZIM DIP DIP AZIM DIST 0 -90 124 Location Sketch ÷ March 27 START DATE: March 29 FINISH DATE: Cargill TOWNSHIP: (Lease # 104714 9.9917 CLAIM NO .: Brodley DRILLING CONTRACTOR: BNS PURPOSE: in, rods tight no Hole Caved RESULTS: water veturn. WHY HOLE TERMINATED: NO-3 /NQ CORE SIZE: CASING: HOLE CEMENTED: NO. OF ASSAYS: NO. OF ICP: NO. OF WRA: REJECTS/PULPS SAVED: Minlsite CORE STORED (LOCATION): Harium 🗋 ft Mm

Hole Number AGR-026 Page Z of 3

From (m)	To (m)	Lithological Code	Description	Recovery
0.0	14.0	<u>, , , , , , , , , , , , , , , , , , , </u>	Gumbo clay GREY homogenous clay	11m =
14.0	17.0		Boulded T, 11 Rubble of granitic queiss	0:4m =
17.0	<b>83</b> .0		at sthered py Roxenite	32m=
			DARK GREEN, MICACEOUS, Locally Rust colored, soft with Localt sections (<1m) of pylonewite lock. 50% of this section campletely disentegrated.	
<b>3</b> 3.0	<i>j10</i> .0		BROWN RESOLUTION Conerthered RAWHAUSTED	m=  1/1/2
			Local sections of Rawhaugite ( <tm). gradannely="" to<br="" turns="">Rock.</tm).>	4

Hole Num	ber A	16R-026	_Page of 3	
From (m)	To (m)	Lithological Code	Description	Recovery
10.0	124.0		Rochaugite Ton blown Collomotite, displaying Flactules ilon last theorybout. Schistosity close to 0° to C.A. Locally locks cemented. E.O.H.	

							P	f Mg	/.				• • •
Agrium	DIVISION: Surface Grid:		PROJECT: WINH 2000 NORTHING EASTING 5461 163.7 3669		LOGGED BY: P. MARENGH1 ELEVATION 90.5 239.4		DATE LOGGED: APRIL LENGTH		<u>5/20 DRI</u> SECTION	68-00-028 LEVEL			
Kapuskasing Phosphate Oper	ations	eering Grid:									<u> </u>		
DIST AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
109 0	-90												
				L	1	1	1	1	l	l	L	I	
START DATE:	april 14	·			·	Location Ske	ich	ŧ					
	2pril 15				<u>_</u>								
TOWNSHIP:Carg	-11					-							
CLAIM NO .: 4130		ase #	10435)										
DRILLING CONTRACTOR:	Bradley	Bas			<u> </u>	-							
PURPOSE:													
		<u></u>								-			
RESULTS:								1					
				<u> </u>				د					
WHY HOLE TERMINATED:		·											
CORE SIZE:	NQ-3 1	NR											
CASING:				·····	<u>.                                    </u>								
HOLE CEMENTED:			· · · · · · · · · · · · · · · · · · ·										
NO. OF ASSAYS:													
NO. OF ICP:						-							
NO. OF WRA:													
REJECTS/PULPS SAVED:													
CORE STORED (LOCATION):	Agos	um Mir	lin to										
□ ft [∑木m	r.												ļ

Hole Number ACR-028 Page 2 of 2

From (m)	To (m)	Code	Description	Recovery
0.0	5.0	· _ · · · · · · · · · · · · · · · · · ·	ORGANIC MATHER /TOPSOIL	0.5M=
5.0	11.0		Boulder Till Foto granitic greiss + matic boulders of VARYing Sizes 30% gray clay.	2.3m = ¥
<i>  </i> . 0	32 .0		WEATHERED CARbourTite (South) To to TAN to MEDIUM GROWN SANDY RESIDENT (Weathered Soute) mixted with 30% TAN colored South (INERM, Heat 0.2 - IM INTERVALS) Soute CARACTERISEd by blebbed to Well formed 0.1 - Icm magnetite xTALS. Soute gradually	17m=
<b>3</b> 2.0	109-00		becomes paler with depth. Sovite Light TON GRADNY inte white, 10-15% COARSE GRANED Mynetite xTOLS (0.2-1cm). Some well formed xTALS. Schistosity = 3 75° To C.A. BADLY BROKEN CORL. FROM 48mon Rock	67 <i>m</i> =

De comes white T THEM ~7

109.0

The light Aug 29, 2000 BRILL HOLE NO: Abril- 00-029

•	DIVISION:		PROJECT: U	vinter 200	<u>v i</u>	OGGED BY: F. M.	ARENGHI	DATE LOGG	ED: APRIL I		LL HOLE NO: 1/1/2	<u>R-cv-029</u>
Agrium	Surface Grid:	NORTHI 5461 1		eastin 367 0		ELEVAT		LENGTH 50-0~		SECTION		LEVEL
Kapuskasing Phosphate Opera	tions Engineering Grid:						·					
DIST AZIM	DIP DIS	T AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
50 0												
					1							
START DATE: FINISH DATE: TOWNSHIP: CLAIM NO.: DRILLING CONTRACTOR: PURPOSE: RESULTS:	-11	# (043 <i>95</i> 3	)		Location 1 	Sketch		J		J		
WHY HOLE TERMINATED:					-		r.					
	12-3 /NQ											
CASING:					_							
HOLE CEMENTED:					_							
NO. OF ASSAYS:					-							
NO. OF ICP:		•			_							
NO. OF WRA:					_							
REJECTS/PULPS SAVED:					_ ]							
CORE STORED (LOCATION):	Agrin	Mindsite										
⊡ft ⊠km	,											

Hole Number Ack-0029 \_Page \_2\_\_\_\_ of \_\_\_ 2

From (m)	To (m)	Lithological Code	Description	Recovery
000	8.50		Gumba clay	1.300-
			LAST 0.6m = box lder Till	
8.50	50.00		CARbonaTite Rock (Sovide)	
			Light guy to white CARbons File containing up to 20%	41.5m=100%
			Light gray to white CARbonATITE containing up to 20% CUARSE gRAined (0.2-0.4cm, locally 1-2cm) Magnetic XTALS. Schuttesty AROUND 30° to C.A.	
50.0			E.O.H.	
-				
	1			1

TH My 1. Aug 29, 2000

Agrium Kapuskasing Phosphate Op	DIVISIC Surface perations Engine		NORTHIN 5461 04	G	Jinter 2000 EASTING 366 93	3	GED BY: P. MAS ELEVATIO 238.	N	DATE LOGGI LENGTH 126.01		7/00 DR SECTION	ILL HOLE NO: A	LEVEL
DIST AZIM	DIP - 90	DIST	AZIM	<u>DIP</u>	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
					+			;					
FINISH DATE:	74 (Le		(04 395)			Location Ske	lch	i					
RESULTS:								,					
WHY HOLE TERMINATED:													
	No-3 /1	IQ											
CASING:													
NO. OF ASSAYS:													
NO. OF ICP:													
NO. OF WRA:													
REJECTS/PULPS SAVED:													
CORE STORED (LOCATION): _ f f m	Agnum	n Mints	à te										

From (m)	To (m)	Lithological Code	Description	Recovery
0.0	10.0		Gumbo Clay Grey homogenous clay.	6-11 =
10.0	o <sup>73</sup> 50		Boukker Till to the petite size to 0.600 boukless of grantic queiss and metics in a gray clay	12.2m=
23.50	50.0		Clay + ORGANIC MATERIAL MIXTURE OF SAMAY CLAY (GREY), Black OBJANIC UNITS (PEAD with VISIBLE NOOD, Fire hight grey clays and Parkish Clays Some VISIBLE Apatile XTOLS in the model SAMAY UNITS Colors VARY throughat over every 2-3.m. Sludge SAMA UNITS Colors MARY throughat over every 2-3.m. Sludge SAMA Some RETURNED Some Good Roos VALOS so this complete section will be SAMA All contacts are gRAVAL.	-

Hole Number <u>AGR - 030</u> Page <u>3</u> of <u>3</u>

From (m)	To (m)	Code	Description	Recovery
50.0	<b>9</b> 5.0		RED Clay Light RED clay (grading From grey to pink to Brown) with Intervals (59-63m) of grey sondy clay. RED clay contains preces of unknown COARSE granned (outsthic?) Rock From which it is the weathered product. RED clay has spotted texture.	18m =
<b>95</b> .0	126-0		CEMENTED OR / (ARbon ATTE GREY FRAgmenTAL, Cemented ORE / CARbonATTE. VELY BADY BROKEN SECTION with intervals of Residium Ranging FROM 1-2m. Fink GRANCED VISIBLE Apatite (10-15%). About 60% of This section is Rock material.	22. <del>5.</del> ., <del>-</del>
126.0			E.O.H.	

2.205.27

## **APPENDIX II**

## MAPS AND SECTIONS

Ontario	Ministry of Northern Development and Mines	Declaration of Assessm Performed on Mining La	ind	Transaction Number (office use)
		ion 66(2) and 66(		Assessment Files Research Imaging
		xections 65(2) and	d 66(3) of the Mining	Act. Under section 8 of the Mining Act, this

t samt jt min im tim ter am it mat te	188 1916			
42G07SW2010	2.	2	052	7

CARGILL

sections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this ent work and correspond with the mining land holder. Questions about this collection lent and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

Instructions:	- For work performed on Crown Lands before recording a claim, use form 0240.
	- Please type or print in ink.

900

- Please type or print in ink.	
1. Recorded holder(s) (Attach a list if necessary)	2.80827
Name	Client Number 193876
Viridian Tre. (Agrium-kapuskusing Physhot)	
Address P.J. BUN 92	Telephone Number (705) 337-4213
Kapuskasing ont PSN 241	Fax Number (705) 335-3404
Name 7	Client Number
Address	Telephone Number
	Fax Number

#### Type of work performed: Check ( $\checkmark$ ) and report on only ONE of the following groups for this declaration. 2.

Geotechnical: prospecting, s assays and work under section		
Work Type		Office Use
	/	Commodity
Diamond Drillin	<u>ז ל</u>	Total \$ Value of Work Claimed ノダダ タダダ
Dales Work From 21 O( Performed Day Month	VC TO 17 04 00 Year Day Month Year	NTS Reference
Globel Positioning System Data (if available)	Township/Area Cargill	Mining Division Pour Courses
	Mor G-Plan Number 6 - 860	Resident Geologist District

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;

- provide proper notice to surface rights holders before starting work;

- complete and attach a Statement of Costs, form 0212;

provide a map showing contiguous mining lands that are linked for assigning work;
include two copies of your technical report.

#### Person or companies who prepared the technical report (Attach a list if necessary) 3.

• • •	• •	•••
Name Ren Pressauco		Telephone Number (705) 337-4213
Address P.O. Bun 92 Kapuska	sing out PSN241	Fax Number (205) 335-3404
Name		Telephone Number
Address	RECORDED	Fax Number
Name	AUG 3 1 2000	Telephone Number
Address		Fax Number
,		

## Certification by Recorded Holder or Agent

1. Rena /	ASSACCO	, do hereby certify that I have	e personal knowledge of the	a facts set forth in
	(Print Name)			

this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or afte	er its
completion and, to the best of my knowledge, the annexed report is true.	

Signature of Recorded Holder or Agent	R	Inevan		Date/ Ang U/or
Agent's Address Yo P.U. Box 92 Kaping	kasing	SANT BENZYI	Telephone Number (725) 337-4213	Fax Number 335-3409

0241	(03/97)

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land where work was performed, at the time work was performed. A map showing the contiguous link must accompany unform. HANCA MADLY

					U. W60 00 368	
work work work work work work work work	g Claim Number. Or if vas done on other eligible g land, show in this n the location number ited on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of wor to be distributed at a future date
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568 Lauje#	2	\$ 8,892	\$ 4,000	0	\$4,892
6000	10E) 8 3 9 ( 8 ( 104 7+18)	19.891th	\$52,647-	0	\$ 29 . 935	\$ 22,912
<del>E</del> cco	104)8 9917(1047471)	21.63 Ha	184.934 -	0	\$ 32,445	\$ 52,499
-	41078657 (+04714)	16.32 th	9,474 -	O		\$ 9,474
	10978658 (++++++)	18.66 the	20,100 -	0	120,100	0
	(413074 (104385)	2254.43	11,016 "	0	\$8,077	\$2939
7	413076(104395)	2757.43	15,543	0	\$ 15, 543	0
7	413 078 (W4315)	2554.43	4,332"	0		\$4,332
80004	12 4 24 5 34 (104 381)	625.68	1, 853-	0		1,853
9	1219791	13 units	U	926,000		-
10	59792	· 4 units	0	\$ 8,000	<u>.                                    </u>	
11	1219793	11 units	U	\$ 12,000		
12	1236910	6 units	ð	\$12,000		
13	1236911	10 units	0	\$ 20,000		
14	1236912	9 units	O	\$ 18,000		
15						
	Column Totals		7199.899	\$106,000	106,000	93,999

\_\_\_\_\_, do hereby certify that the above work credits are eligible under (Print Full Name) subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date A	
R. Intreco	the 74/00	

#### Instructions for cutting back credits that are not approved. 6.

Ι, \_

Some of the credits claimed in this declaration may be cut back. Please check (1) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or

4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

## Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
0241 (03/97)	Approved for Recording by Mining Record	L der (Signature)

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# Statement of Costs for Assessment Credit

Transaction	Number	(office	use)
1.006	0.00.	366	/

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Depending on the type of v	vork, list the nun	nber of	Cost Per Unit	Total Cost
	hours/day worked, metres grid line, number of sample		etres of	of work	_
Diamond Drilling	2,483	metres		\$ 80.51	<sup>9</sup> 199,898
<i>I</i>					
				·	
· · · · · · · · · · · · · · · · · · ·					
<del></del>					
Associated Costs (e.g. suppl	ies, mobilization and do	emobilizatio	n).		
		<u></u>			
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Trans	portation Costs				
		· · · · · · · · · · · · · · · · · · ·			
			<u> </u>		
Food an	d Lodging Costs	<u> </u>			
	(1.466) (1.544) (1.57) (1.57)				
		RDED		l	× <sup>₽</sup> 199, 895
	AUG 3 1	2000	Total Va	alue of Assessment Wor	K (197,070
Calculations of Filing Discounts:					
<ol> <li>Work filed within two years of per</li> <li>If work is filed after two years and Value of Assessment Work. If this</li> </ol>	l up to five years after per	formance, it	can only l	be claimed at 50% of the "	ork. Fotal
TOTAL VALUE OF ASSESSMENT V	VORK		x 0.50 =	Total \$ value o	f worked claimed.
Note:					
<ul> <li>Work older than 5 years is not elie</li> <li>A recorded holder may be required verification and/or correction/clarification</li> <li>or part of the assessment work submatrix</li> </ul>	ed to verify expenditures of ation. If verification and/or				of a request for hister may reject all
Certification verifying costs:					
1. Reno Pressacco	, do hereby certify	, that the amo	ounts sho	wn are as accurate as ma	y reasonably
(please print full name) be determined and the costs were in					
Declaration of Work form as	ded holider, agent, or state company	position with signi	ng authority)	_ I am authorized to make	e this certification.
REC	CEIVED	Signature		Da	nte A
0212 (03/97)	G 3 1 2000		(. M	encer /	hy 2/or
	ENCE ASSESSMENT	,			
GEOSCI	OFFICE				

Ministry of Min Northern Development Dév and Mines et d

October 3, 2000

VIRIDIAN INC. 3500, 10180 - 101 STREET EDMONTON, ALBERTA T5J-3S4 Ministère du Développement du Nord et des Mines



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9845 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.20527

Status
Subject: Transaction Number(s): W0060.00368 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact LUCILLE JEROME by e-mail at lucille.jerome@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

terren B. Beneterin

ORIGINAL SIGNED BY Steve B. Beneteau Acting Supervisor, Geoscience Assessment Office Mining Lands Section

## **Work Report Assessment Results**

Submission Nun	nber: 2.20527		•		
Date Correspond	dence Sent: Octobe	r 03, 2000	Assessor:LUCIL	LE JEROME	
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date	
W0060.00368	6000408	CARGILL	Approval	October 02, 2000	
Section:					

16 Drilling PDRILL

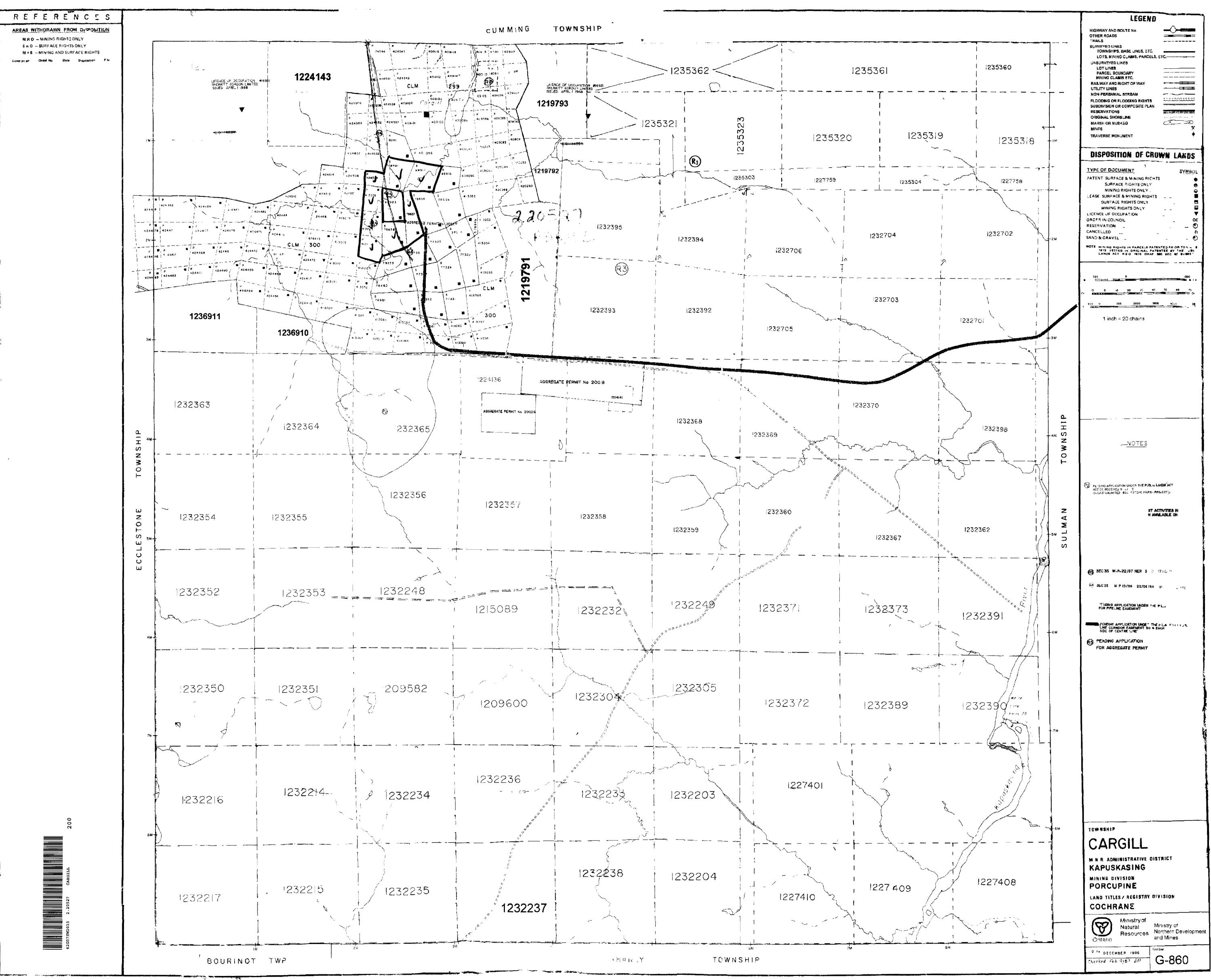
All future assessment work submissions must be accompanied with a breakdown of costs on the statement of cost form.

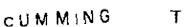
At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

Correspondence to: Resident Geologist South Porcupine, ON

Assessment Files Library Sudbury, ON Recorded Holder(s) and/or Agent(s): Reno Pressacco KASPUSKASING, ONTARIO

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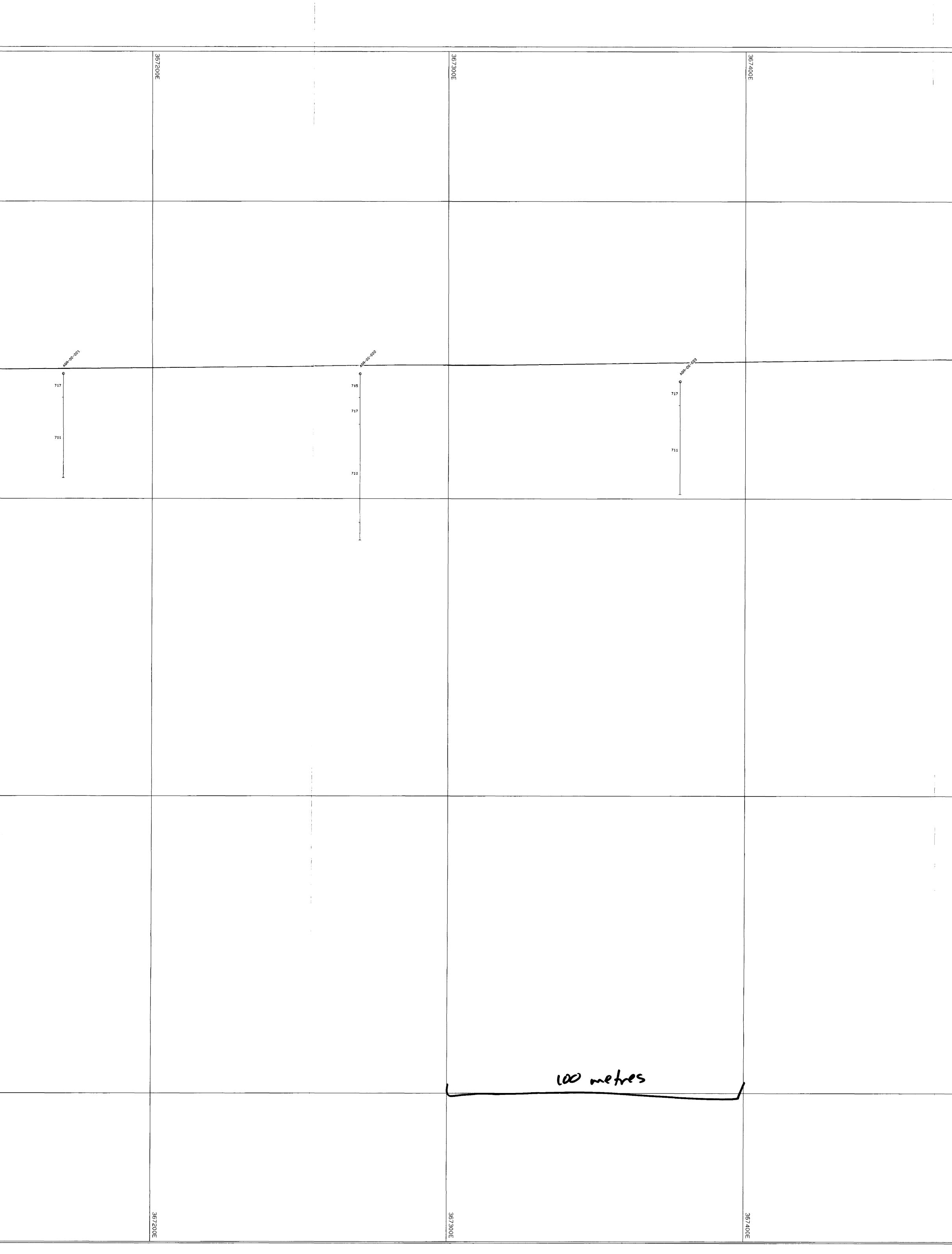
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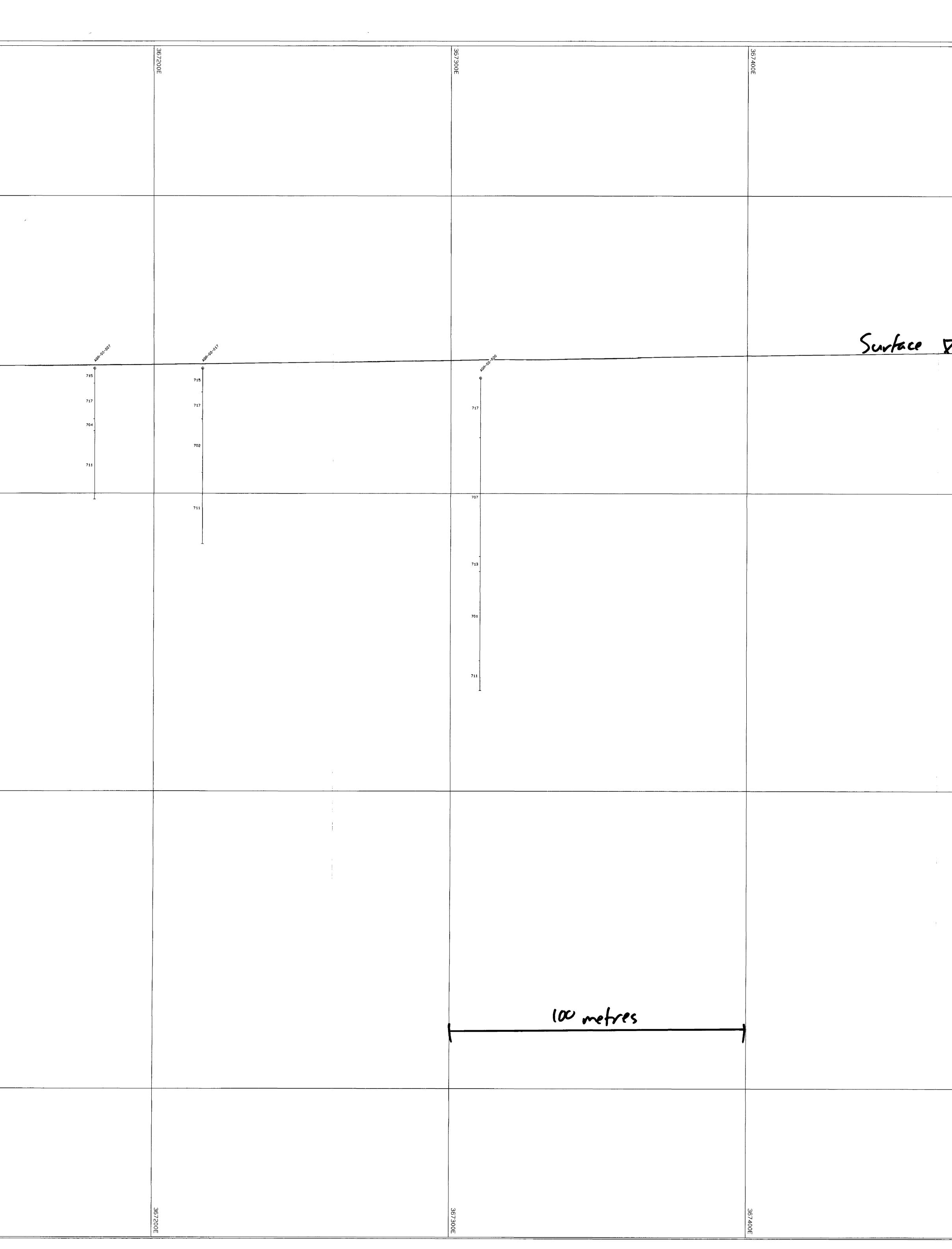


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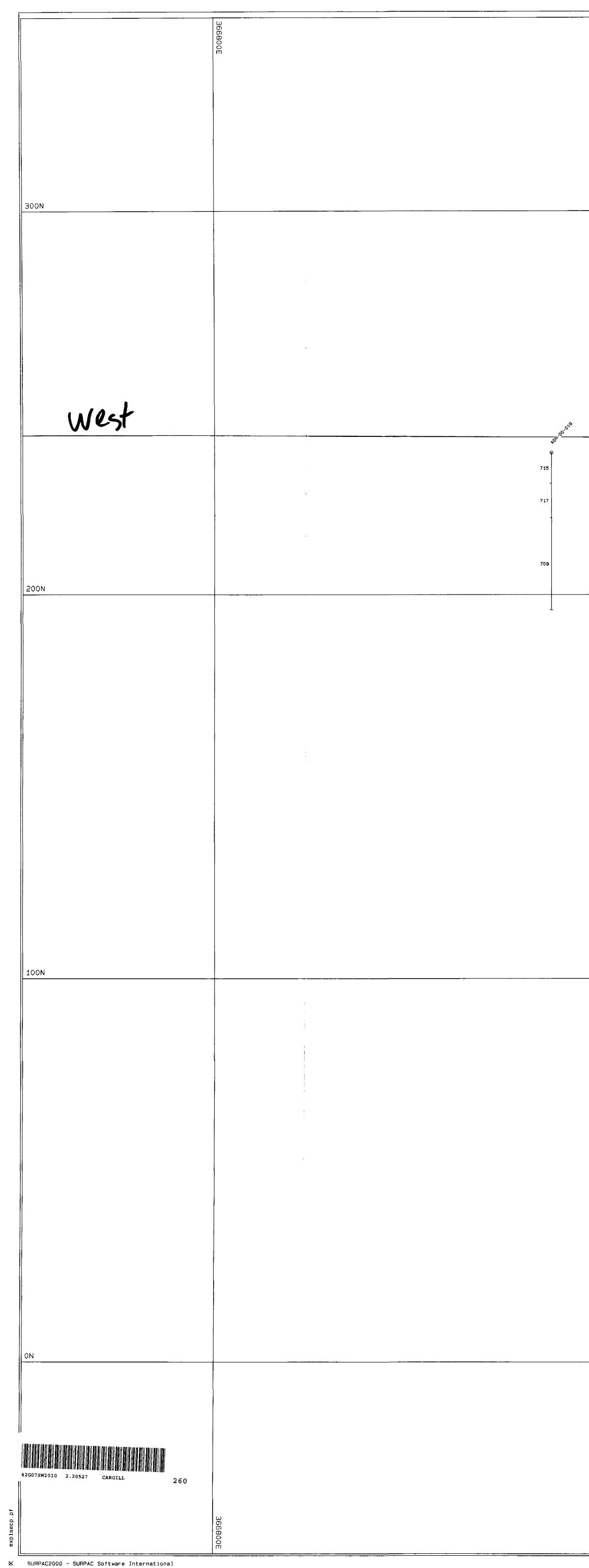
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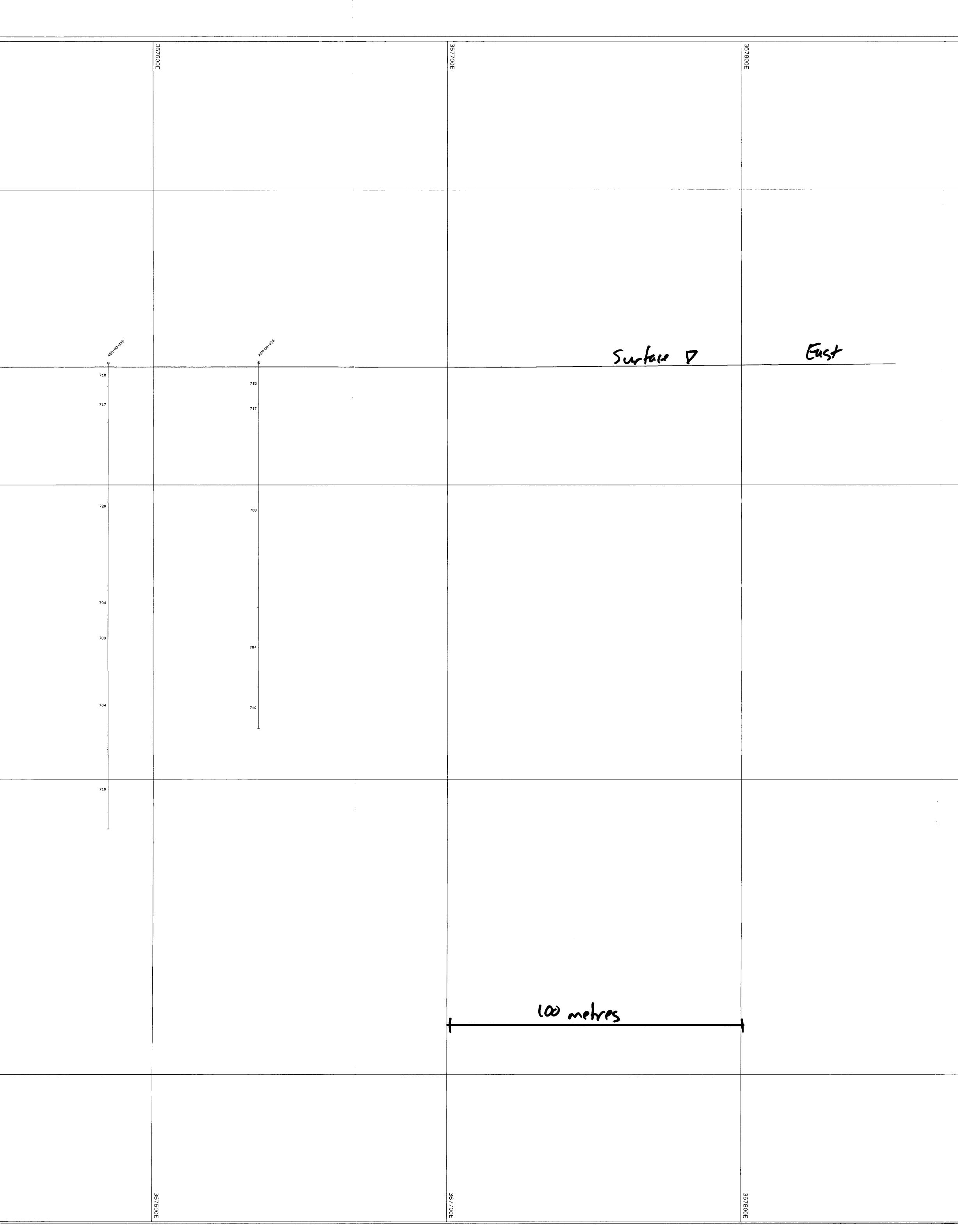
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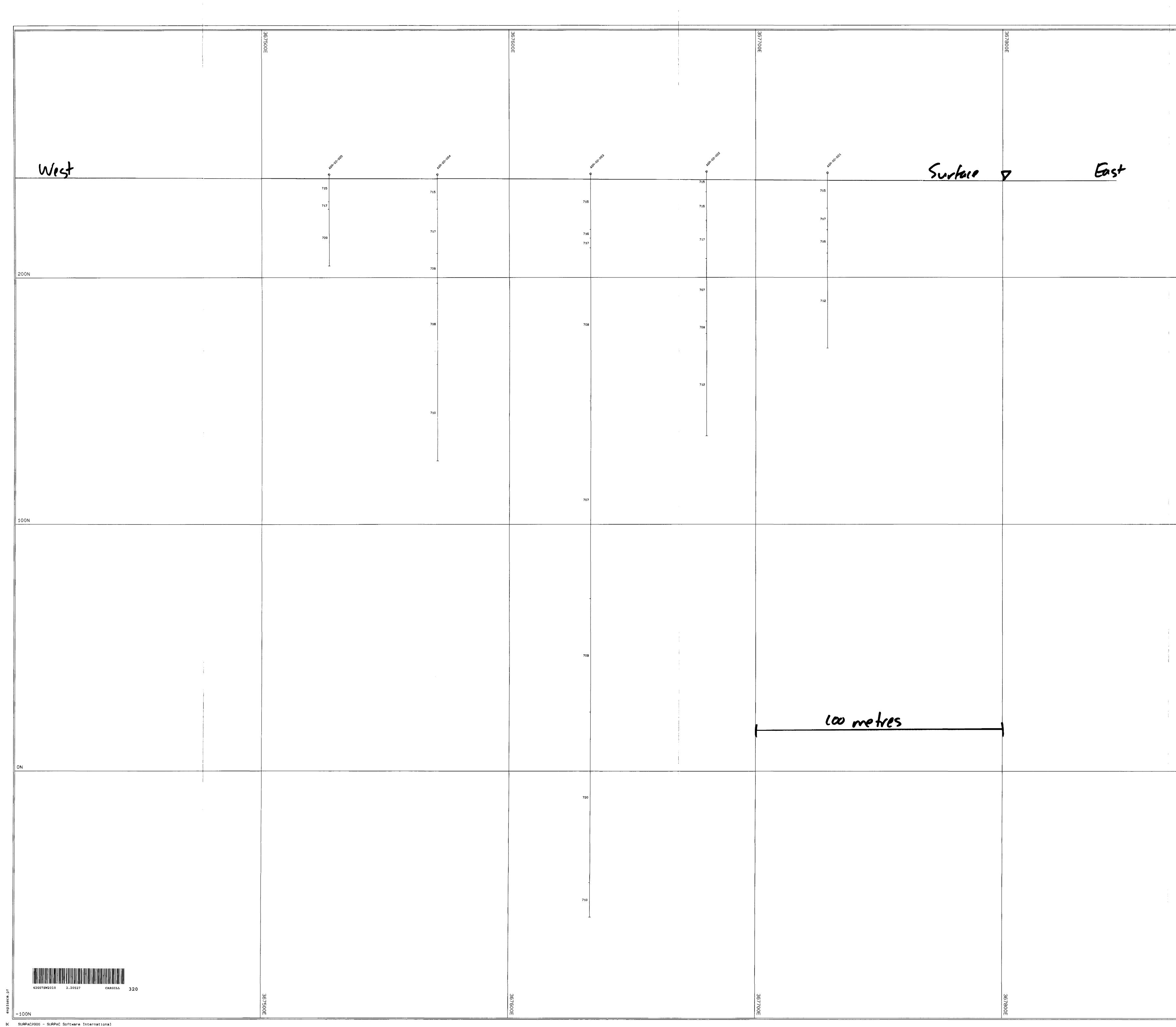
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