APPENDIX B

Geological and Geotechnical

Drill Logs 1-44 - Volume 2 of 3

Noranda Minerals Wisconsin Corp.

LYNNE PROJECT

12

(p. 211 - 280)

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.0	-57.1
225'	180.8	-57.1
425'	182.8	-56.8
550'	184.4	-56.5
710'	185.2	-56.3

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: J. Schaff
DATE COLLARED: 5-31-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-63 (WDNR #194)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 6-3-91

BEARING: S181.7E INCLINATION: -59.2 T.D: 1100'
COORDINATES: L10100 E, 11285 N
ELEV: 1563.6' SEC: 15 TWP: 37N RANGE: 4E

DATE: 7-18-91
PAGE 1 OF 11

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
248.3 279.5		SL	** 248.3 279.5 INTERBEDDED SILTSTONE AND SANDSTONE	
279.5 281.5		W	** 279.5 281.5 WACKE	
281.5 289.0		Wch	** 281.5 289.0 WACKE, Cherty	
289.0 299.0		LR	** 289.0 299.0 PORPHYRITIC RHYOLITE	
299.0 314.0		WQ	** 299.0 314.0 QUARTZ WACKE	
314.0 318.0		Wch	** 314.0 318.0 WACKE, Cherty	
318.0 336.0		W	** 318.0 336.0 WACKE	
336.0 351.0		pIR	** 336.0 351.0 RHYOLITE (PORPHYRITIC ?)	
351.0 363.0		AG	** 351.0 363.0 AGGLOMERATE	
363.0 370.5		Wch	** 363.0 370.5 WACKE, Cherty	
370.5 377.0		Ch	** 370.5 377.0 CHERT	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.0	-57.1
225'	180.8	-57.1
425'	182.8	-56.8
550'	184.4	-56.5
710'	185.2	-56.3

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COORDINATES: L10100 E, 11285 N
ELEV: 1563.6' SEC: 15 TWP: 37N RANGE: 4E

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PAGE 1 OF 11

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
377.0 392.0		Xch	377.0 392.0 TUFFITE, Cherty	
392.0 404.0		AG	392.0 404.0 AGGLOMERATE	
404.0 409.2		MSca	404.0 409.2 MASSIVE SULFIDE, Calcareous	
409.2 545.0		Ch	409.2 545.0 CHERT	
426.0 436.0		SS	426.0 436.0 Sandstone	
494.0 497.5		MSch	494.0 497.5 Massive Sulfide, Cherty	
545.0 548.0		CS	545.0 548.0 CALCAREOUS SEDIMENT	
548.0 591.0		SS	548.0 591.0 SANDSTONE	
591.0 647.6		MS,t	591.0 647.6 MASSIVE SULFIDE, Talcose	
647.6 654.0		SS	647.6 654.0 SANDSTONE	
654.0 1100.0		QD	654.0 1100.0 QUARTZ DIORITE	
654.0 673.0		gQD	654.0 673.0 Granophyric Quartz Diorite	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.0	-57.1
225'	180.8	-57.1
425'	182.8	-56.8
550'	184.4	-56.5
710'	185.2	-56.3

PROJECT: LYNNE P.D. 1876
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HOLE NO: LYN91-63 (WDNR #194)

DATE: 7-18-91
PAGE 1 OF 11

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 6-3-91

BEARING: S181.7E INCLINATION: -59.2 T.D: 1100'
COORDINATES: L10100 E, 11285 N
ELEV: 1563.6' SEC: 15 TWP: 37N RANGE: 4E

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
			E.O.H. 1100' (total depth)	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: (T)

% A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
0.0 63.0												** 0.0 63.0 OVERBURDEN								
												^^ 0.0 38.0 Fine sand								
												^^ 38.0 63.0 Sand and gravel, with some boulders								
											R	** 63.0 100.0 RHYOLITE TUFF, black, fine-grained, light green, epidote alteration patches. Occasional plag-phyric zones								
70.00																				
	99	90	R3	b	15	2														
73.50				a	30															
	100	95	R3	a	15	2														
				b	70															
				b																
81.00				c																
	100	100	R4	c	10	3														
				c	30															
85.00					50															
	100	100	R4	c	5	3														
				b	35															
				a	60															
				a																
95.00				b																
	100	95	R4	b	20	2														
				c	40						W1	** 100.0 126.5 LAPILLI WACKE, large 1"to 2" rounded to angular quartz clasts in a plag-phyric matrix								
				b																
				b																
105.00				b																

DRILL HOLE: LYN91-63

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: (T) % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
	100	100	R3	a	5	2						Note: @ 105.0-109.5 Possible ashy top with flattened and chloritically altered pumice fragments								
				b	20															
				b																
				c																
115.00				b																
	100	100	R3	b	20	2														
				b	40															
				a																
				b																
125.00				b							SS	** 126.5 175.0 SANDSTONE, with occasional 1-2" interbedded laminated siltstone								
	100	100	R4	b	15	2														
				b	30															
				a																
				a																
135.00				a																
	100	100	R4	a	30	2														
				a	50															
				a																
				a																
145.00				a																
	100	95	R4	a	10	2														
				a	35															
				a								Note: @ 151.0-155.0 Zone of intense fracturing with calcite infilling, .3" shear or fault @ 154.0								
				a																
155.00				a																
	100	100	R4	b	10	2														
				c	35															
				c																
				c																
165.00				c																
	100	95	R3	b	10	3														
				a	30															
				a	60															
				a																
175.00				a							WI	** 175.0 191.5 LAPILLI WACKE, occasional 5-10 mm quartz (?) clasts in a predominately plag-phyric matrix								
	100	100	R3	a	10	3														
				b	30															
179.50				b	50															
	99	95	R3	b	10	2														
				a	30															

DRILL HOLE: LYN91-63

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	I
				a																
				a																
189.50				b																
	100	100	R3	b	10	2					D	** 191.5 198.2 DACITE, very fine-grained, black, minor feldspar phenocrysts								
				a	35															
195.00				a																
	100	90	R3	a	10	2					SS	** 198.2 215.5 SANDSTONE, black, very fine-grained								
				c	30															
				c																
				c																
205.00				b																
	100	100	R3	a	10	3														
				a	30															
				a	60															
				b																
215.00				a							W	** 215.5 235.5 WACKE, black, fine-grained, 2-4 mm clasts, similar composition as matrix								
	100	95	R3	b	10	2														
				b	50															
				a																
				a																
225.00				a																
	99	95	R4	a	20	2														
				a	60															
				a																
233.50				a																
	99	90	R4	c	10	2					SS	** 235.5 239.5 SANDSTONE, grey-black, fine-grained, crudely laminated								
				b	30															
				a																
				b							Wch	** 239.5 248.3 WACKE, cherty, minor feldspar phenocrysts								
				a																
243.70																				
	100	100	R4	a	20	2														
248.00				a	50						SL	** 248.3 279.5 INTERBEDDED LAMINATED SILTSTONE, and non-to-crudely laminated sandstone, abundant spherulities (?)								
	99	80	R4	b	20	2														
				c	40															
				c																
255.00				a																
	100	95	R4	a	20	2														
				a	70															
				a																

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				c																
265.00				c																
	100	100	R4	b	20	2														
				b	40															
				a																
				a																
275.00				b																
	100	100	R3	b	20	2														
				a	50						W	** 279.5 281.5 WACKE (QUARTZ ?)								
				a																
				a							Wch	** 281.5 289.0 WACKE (?), cherty, plag-								
				a								phyric, grey-black (similar to 239.5-								
285.00				a								248.3)								
	100	85	R3	a	5	3														
				a	30						LR	** 289.0 299.0 PORPHYRITIC RHYOLITE,								
				b	50							chilled lower margin @ 289.0								
				b																
295.00				b																
	100	75	R3	b	5	3														
				a	35						Wq	** 299.0 314.0 QUARTZ WACKE, medium-								
				b	60							grained, blue quartz eyes								
302.60				c																
	100	90	R3	c	10	2														
305.00					35															
	100	80	R3	c	10	2														
				c	35															
				c																
				c							Wch	** 314.0 318.0 WACKE, cherty								
315.00				b																
	100	95	R3	b	30	2					W	** 318.0 336.0 WACKE, medium to fine-								
				c	50							grained, blue quartz eyes and feldspar								
				c																
				c																
325.00				c																
	100	100	R3	c	30	2														
				c	50															
				c																
				c																
335.00				c							pIR	** 336.0 351.0 RHYOLITE (PORPHYRITIC ?)								
	100	90	R3	b	10	3														

DRILL HOLE: LYN91-63

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: % (T)

A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b	30															
				a	50															
				a																
345.00				a																
	100	100	R3	a	15	3														
				a	30															
				a	70						AG	** 351.0 363.0 AGGLOMERATE, 1-2" angular to rounded clasts in a coarse-grained quartz wacke matrix								
				b																
355.00				b																
	100	100	R3	b	10	3														
				b	30															
				b	70															
				a							Wch	** 363.0 370.5 WACKE, cherty, grey-black, fractured								
365.00				a																
	100	95	R3	a	5	2														
				a	40						Chz	** 370.5 377.0 CHERT (?), very strong diopside (skarn) alteration, stringer sulfides	a		1					1
				a									a		1					1
				a									a		1					1
375.00				a									a		1					1
	100	100	R3	a	20	1					Xch	** 377.0 392.0 TUFFITE, cherty, strong diopside alteration	a		1					1
				b									c	9	3			1		13
				b									c	9	3			1		13
				c									c	9	3			1		13
385.00				c									c	9	3			1		13
	100	80	R2	b	30	2							c	9	3			1		13
				c	60								c	9	3			1		13
				c							AG	** 392.0 404.0 AGGLOMERATE, cherty clasts in a fine-grained matrix	c	9	3			1		13
				c																
395.00				b																
	99	50	R2	b	5	2														
				a	35															
401.00				a																
	100	100	R3	b	5	3					MSca	** 404.0 409.2 MASSIVE SULFIDE, calcareous, amber sphalerite	d	32						32
				b	20								d	32						32
				c	60								d	32						32
				c							Chs	** 409.2 545.0 CHERT, disseminated to bedded sulfides, strong diopside alteration	b	6		1	1			8
				c									b	6		1	1			8
				c									b	6		1	1			8
415.00				c									b	6		1	1			8
	100	95	R2	b	5	2							b	6		1	1			8

DRILL HOLE: LYN91-63

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				c	20								b	6		1	1			8
				b									b	6		1	1			8
				b									b	6		1	1			8
425.00				b							SS	^^ 426.0 436.0 Sandstone, fine-grained, black	b	6		1	1			8
	100	90	R2	c	5	3														
				c	30															
				b	45															
433.20				c																
	100	85	R3	b	5	3														
				b	40								a		1					1
				b	60								a		1					1
				a									a		1					1
443.50				a									a		1					1
	100	85	R3	a	40	2							a		1					1
				a	70								b	3	1	1	5			10
450.00				a									b	3	1	1	5			10
	100	95	R3	b	10	2							b	3	1	1	5			10
				c	30								b	3	1	1	5			10
455.00				c									b	3	1	1	5			10
	99	90	R2	c	5	2														
				c	40															
462.00				c																
	100	100	R3	b	20	2														
				c	45															
				c																
				c																
472.00				c									a					1		1
	100	100	R3	c	20	2							a					1		1
475.00				c	50								a					1		1
	100	100	R3	b	10	3							a					1		1
				a	30								a					1		1
				a	60								a					1		1
				a																
485.00				a																
	100	100	R3	a	10	3														
490.50				a	30															
					60															
	100	100	R3	a	10	3														
				a	30						MSch	^^ 494.0 497.5 Massive Sulfide, cherty	d	1		35				36
495.00				a	60								d	1		35				36

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: (T)
A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
	100	100	R3	a	10	3							d	1		35				36
				a	30															
				a	60															
				a																
505.00				a																
	100	90	R3	a	10	3														
				a	30															
				a	60															
				a																
515.00				a																
	100	95	R3	a	10	3														
				a	30															
				a	60															
				a																
525.00				a																
	100	90	R3	a	10	3														
				a	30															
				a	60															
				b																
535.00				a																
	99	50	R3	a	60	1														
538.00																				
	100	100	R3	b	5	2														
				b	60															
				b																
545.00				b																
	100	90	R2	b	10	3					CSs	** 545.0 548.0 CALCAREOUS SEDIMENT (?), contorted, very strong diopside alteration	a	1						1
				b	30								a	1						1
				a	60								a	1						1
				a									a	1						1
				a							SS	** 548.0 591.0 SANDSTONE, grey to grey-green, very fine to fine-grained ash, minor crude bedding	a	1						1
555.00																				
	100	90	R3	b	10	2														
				b	30															
				b																
				b																
565.00				b																
	100	80	R3	b	10	3						Note: @ 566.0-568.0 Possible large accidental chert clasts (1-3")								

DRILL HOLE: LYN91-63

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: % (T)

A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b	30															
				b	60															
				b																
575.00				b																
	100	90	R2	c	20	2														
				c	40															
				c																
				b									a		1					1
585.00				b									a		1					1
	100	95	R2	b	20	2														
				b	40															
				b							MSt	** 591.0 647.6 MASSIVE SULFIDE, talcose,	e	47			2	2		51
				c								amber sphalerite rich, weakly bedded	e	47			2	2		51
595.00				c									e	47			2	2		51
	100	100	R2	d	30	1							e	47			2	2		51
				d									e	47			2	2		51
				d									e	47			2	2		51
				d									e	47			2	2		51
605.00				d									e	47			2	2		51
	100	100	R2	d	20	2							e	47			2	2		51
				d	40								e	47				2		49
				d									e	47				2		49
				d									e	47				2		49
615.00				d									e	47				2		49
	100	100	R2	c	20	2							e	47				2		49
				c	40								e	43				4		47
				c									e	43				4		47
				c									e	43				4		47
625.00				c									e	43				4		47
	100	100	R2	c	20	2							e	43				4		47
				c	40								e	43				4		47
				c									e	43				4		47
				c									e	43				4		47
635.00				c									e	43	1			4		48
	100	100	R2	c	20	2							e	43	1			4		48
				c	40								e	43	1			4		48
				c									e	43	1			4		48
				c									e	43	1			4		48
645.00				c									e	43	1			4		48
	100	100	R3	c	40	2					SS	** 647.6 654.0 SANDSTONE (?), very fine-	e	43	1			4		48

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				c	60							grained ash (?), strong sericite development								
				c																
				c																
				c							QD	** 654.0 1100.0 QUARTZ DIORITE								
655.00																				
	100	100									gQD	^^ 654.0 673.0 Granophyric Quartz Diorite								
665.00																				
	100	100																		
675.00																				
	100	100																		
685.00																				
	100	100																		
695.00																				
	100	100																		
705.00																				
	100	100																		
710.00												Note: @ 710.0 Re-entered and deepened hole on 5-31-91								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
									-25F										

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: (T)

% A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
									-10F										
									-30										

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: (T)

% A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
									-20	SZ	^^ 891.0 936.0 Shear zone, weak								
									-25										
									-20										
									-20										
									-20										
									-20										
									-25F										
									-40	SZ	^^ 957.0 960.0 Weak shear zone								
									-45										

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-63

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
									-30										
									-30										
									-20										

DRILL HOLE: LYN91-63

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
									-25										
											E.O.H. 1100' (total depth)								

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
300'	182.2	-62.6
600'	184.9	-62.3
900'	188.3	-61.6
1200'	192.6	-60.9
1386'	194.4	-60.6

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: T. Harding
DATE COLLARED: 1-23-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-64 (WDNR #236)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 2-1-91

BEARING: S179.8E INCLINATION: -63.4 T.D: 1386'
COORDINATES: L9400 E, 12725 N
ELEV: 1557.5' SEC: 15 TWP: 37N RANGE: 4E

DATE: 7-18-91
PAGE 1 OF 20

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
0.0 32.0			** 0.0 32.0 OVERBURDEN	
32.0 44.0	(not recovered)			
32.0 96.5		D	** 32.0 96.5 DACITE	
96.5 156.0		R1	** 96.5 156.0 RHYOLITE LAPILLI TUFF	
156.0 427.0		D	** 156.0 427.0 DACITE	
198.0 204.0		pR	^^ 198.0 204.0 Several Porphyritic Rhyolite Sills	
316.5 323.0		R	^^ 316.5 323.0 Rhyolite Flow	
427.0 619.5		R	** 427.0 619.5 RHYOLITE	
427.0 431.0		R	^^ 427.0 431.0 Lapilli Flow	
431.0 454.5		pR	^^ 431.0 454.5 Porphyritic Rhyolite Sill	
454.5 459.0		Md	^^ 454.5 459.0 Mafic Dike	
459.0 608.0		R1	^^ 459.0 608.0 Lapilli Tuff	
608.0 619.5		Rc	^^ 608.0 619.5 Crystal Tuff	
619.5 635.5		D	** 619.5 635.5 DACITE	
635.5 694.0		W1f	** 635.5 694.0 LAPILLI WACKE, (Feldspathic)	
694.0 886.0		R	** 694.0 886.0 RHYOLITE	
694.0 720.0		pR/FZ	^^ 694.0 720.0 Porphyritic Rhyolite/Fracture Zone	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
300'	182.2	-62.6
600'	184.9	-62.3
900'	188.3	-61.6
1200'	192.6	-60.9
1386'	194.4	-60.6

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: T. Harding
DATE COLLARED: 1-23-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-64 (WDNR #236)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 2-1-91

DATE: 7-18-91
PAGE 1 OF 20

BEARING: S179.8E INCLINATION: -63.4 T.D: 1386'
COORDINATES: L9400 E, 12725 N
ELEV: 1557.5' SEC: 15 TWP: 37N RANGE: 4E

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
720.0 729.6		R	^^ 720.0 757.5 Rhyolite Flow	
757.5 778.2		pR	^^ 757.5 778.2 Porphyritic Rhyolite	
778.2 792.0		R	^^ 778.2 792.0 Rhyolite Flow	
792.0 880.3		Rlc	^^ 792.0 880.3 Lapilli Crystal Tuff	
880.3 886.0		Rt	^^ 880.3 886.0 Rhyolite Tuff	
886.0 909.0		Wl	>< 886.0 909.0 LAPILLI WACKE	
890.0 894.7		Wl*,m	^^ 890.0 894.7 Altered, With Magnetite	
899.0 902.0		Wf	^^ 899.0 902.0 Feldspathic Wacke	
909.0 965.0		D	>< 909.0 965.0 DACITE	
965.0 984.6		R	>< 965.0 984.6 RHYOLITE	
965.0 966.0		pR	^^ 965.0 966.0 Rhyolite Porphyry Sill	
966.0 984.6		Rt	^^ 966.0 984.6 Rhyolite Tuff	
984.6 1205.0		Wl/SS	>< 984.6 1205.0 WACKES AND SANDSTONES	
993.0 1000.0		Wl*,mp	^^ 993.0 1000.0 Altered, Dark Green, With Magnetite & Pyrrhotite	
1138.5 1164.0		IR	^^ 1138.5 1164.0 Intrusive Rhyolite	
1205.0 1208.0		ChT,p	>< 1205.0 1208.0 CHERTY TUFF, With Pyrrhotite	
1208.0 1296.0		TS	>< 1208.0 1296.0 TALCOSE SEDIMENT	
1216.3 1223.0		BPs	^^ 1216.3 1223.0 Bedded Pyrrhotite, With Sulfides	1216.3 1223.0 5% Sp
1251.0 1252.5		BP,l	^^ 1251.0 1252.5 Bedded Pyrrhotite, Laminated, With Chert	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
300'	182.2	-62.6
600'	184.9	-62.3
900'	188.3	-61.6
1200'	192.6	-60.9
1386'	194.4	-60.6

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: T. Harding
DATE COLLARED: 1-23-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-64 (WDNR #236)

DATE: 7-18-91
PAGE 1 OF 20

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 2-1-91

BEARING: S179.8E INCLINATION: -63.4 T.D: 1386'
COORDINATES: L9400 E, 12725 N
ELEV: 1557.5' SEC: 15 TWP: 37N RANGE: 4E

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
1258.5 1272.0		ChT	^^ 1258.5 1272.0 Cherty Tuff	
1272.0 1296.0		TS,l	^^ 1272.0 1296.0 Talcose Sediments, Laminated, With Pyrrhotite & Pyrite	
1296.0 1306.0		Rt	** 1296.0 1306.0 RHYOLITE TUFF	
1306.0 1386.0		QD	** 1306.0 1386.0 QUARTZ DIORITE	
			E.O.H. 1386' (total depth)	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)
A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
0.0 32.0											** 0.0 32.0 OVERBURDEN								
										D	** 32.0 44.5 DACITE, small plag crystals								
44.00	100	90								D	** 44.5 96.5 DACITE, dark, fragment, scattered plag crystals								
45.00	99	60									^^ 44.5 55.5 Possible pillowed pervasive epidote alteration leaving rounded blobs, altered differently. Possible flow top unit.								
46.00	100	95																	
55.00	100	95																	
											Note: @ 62.0-63.0 Possible pillows or flow top								
65.00	100	100																	
66.00	100	100																	
76.00	100	95									^^ 75.6 83.0 Possible pillows or flow top								
86.00	100	100																	
96.00	100	100								Rlc	** 96.5 156.0 RHYOLITE, dark grey crystal-rich matrix, with quartz and plag crystals (rhyolite lapilli tuff),								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
											with cherty and rhyolite porphyry clasts								
											Note: @ 96.5-123.0 Clasts ~ 1-2", @ 123.0-156.0 clasts up to 5"								
106.00	100	100								D	^^ 108.0 117.0 Dacite, plag-phyric sill								
116.00	100	100									Note: @ 117.0-125.0 Rhyolite Flow, banded, with elongate clasts (pumice)								
126.00	100	100									Note: @ 125.0-156.0 Agglomerate ?, 4-6" clasts-cherty or rhyolite porphyry with plag crystal-rich matrix								
136.00	100	100																	
146.00	100	100																	
156.00	100	100								D	** 156.0 427.0 DACITE								
166.00	100	95																	
176.00											Note: @ 171.0 Rock is foliated @ 40 degrees with carb-filled veinlet								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	I
	100	100									Note: @ 178.0-196.0 Green alteration Ep? or Di?								
186.00	100	95																	
196.00	100	100								pR	^^ 198.0 204.0 Several Rhyolite Porphyry Sills with silicification along fractures								
206.00	100	100																	
216.00	99	95																	
219.50	100	100									Note: @ 222.0-232.0 Breccia interval ?. Pervasive epidote alteration with rhyolite porphyry clasts and silicification at base along fractures								
226.00	100	100																	
236.00	100	90									Note: @ 238.0-257.0 Tiny plag veinlets visible								
246.00	100	100																	
256.00																			

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)
A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	% 100	RQD 100	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
266.00	100	100																	
276.00	100	100																	
286.00	100	100									Note: @ 285.0-286.0 Reddish alteration and minor silicification along fractures								
296.00	99	90																	
306.00	100	100									Note: @ 305.0-314.0 Reddish alteration silicification and possible injection of rhyolite porphyry along fractures								
316.00	100	95							-40C	Rv	^^ 316.5 323.0 Rhyolite Flow, ashy, with crystal and lithic fragments								
323.00	100	95																	
336.00																			

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	I
338.00	100	90																	
	100	95																	
346.00	100	100																	
351.00	100	100																	
356.00	100	100																	
366.00	100	95																	
371.00	100	100																	
381.00	100	100																	
391.00	100	100																	
401.00	100	100																	
406.00	100	100																	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
416.00	100	100																	
426.00	100	100								R	** 427.0 619.5 RHYOLITE								
										Rv	^^ 427.0 431.0 Flow, ashy, with plag-phyric lapilli								
									-40C	pR	^^ 431.0 454.5 Porphyritic Rhyolite Sill, with blue quartz eyes and clasts of above								
436.00	100	100																	
446.00	100	100																	
									-30C	md	^^ 454.5 459.0 Mafic Dike, dark grey, fragmented								
456.00	100	100							-30C										
										R1	^^ 459.0 608.0 Rhyolite Lapilli Tuff, with cherty and plag-phyric clasts 2-4"								
466.00	100	100																	
476.00	100	100																	
486.00	100	100																	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
496.00																			
	100	100																	
501.50																			
	100	100																	
506.00											Note: @ 506.5-521.0 Pinkish, more porphyritic clasts								
	100	100																	
509.00																			
	100	100																	
516.00																			
	100	100																	
											Note: @ 521.0-608.0 Rhyolite Lapilli Tuff, grey, fragment matrix with rhyolite porphyry clasts 1-2"								
526.00																			
	100	100																	
528.00																			
	100	100																	
536.00																			
	100	100																	
546.00																			
	100	100																	
556.00																			
	100	100																	
566.00																			

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
									-32F	R	** 694.0 886.0 RHYOLITE								
									-20F	pR/FZ	^^ 694.0 720.0 Rhyolite Porphyry, Fracture Zone, reddish staining and epidote bleaching of rhyolite porphyry with blue quartz eyes								
									-20F										
										Rt	^^ 720.0 729.6 Rhyolite Tuff, fine-grained, grey, patchy epidote alteration								

DRILL HOLE: LYN91-64

ROCK QUALITY: FRACTURE FREQ. A:0-3,B:3-10 C:10-30,D:30-100 E:>100 cm.

SULFIDES: (T) % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
										Rv	^^ 729.6 738.0 Rhyolite Flow/Agglomerate, grey, angular granophyric fragments 1-2" and smaller wispy glasssy fragments in a light-colored matrix								
										Rv	^^ 738.0 757.5 Rhyolite Flow, lt. grey ashy matrix, with 0.5-1.0" grey lithic fragments. Larger fragments are stretched and rounded, not angular								
									-10F	pR	^^ 757.5 778.2 Rhyolite Porphyry with blue quartz eyes, and alteration along fractures								
										Rv	^^ 778.2 792.0 Rhyolite Flow, fine-grained, lt. grey, glassy with crystal-rich intervals. Almost cherty.								
										Rlc	^^ 792.0 851.0 Crystal Tuff, lt. grey, crystal-rich matrix, resembles old Rcl in places, patchy greenish alteration, in places looks sheared, or foliated. Blue quartz eyes.								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
											Note: @ 839.0-840.5 Quartz-eye Porphyry patches								
									-10F -10F -8F -10F -10F	FZ	^^ 851.0 862.0 Fracture Zone, Porphyritc patches, fracturinng at <10 degrees to axis, chlorite-carb filling								
										Rcl	^^ 862.0 880.3 Rhyolite Crystal Lapilli Tuff, crystal-rich matrix with lapilli sized fragments								
										R	^^ 880.3 886.0 Rhyolite								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
										LW	^^ 886.0 890.0 Lapilli Wacke, greenish altered matrix, with rounded lapilli-sized fragments. Could be a flow, resembles an altered version of Rcl but with more lithics.								
										LW	^^ 890.0 894.7 Lapilli Wacke, dark green, with magnetite, altered								
										LW	^^ 894.7 899.0 Lapilli Wacke, same as 886.0-890.0								
										FW	^^ 899.0 902.0 Feldspathic Wacke, or Feldspar Crystal Tuff, with blue quartz eyes								
										LW	^^ 902.0 909.0 Lapilli Wacke								
										D	^^ 909.0 965.0 Dacite								

DRILL HOLE: LYN91-64

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
										R	** 965.0 984.6 RHYOLITE								
										pR	^^ 965.0 966.0 Rhyolite Porphyry Sill								
										Rt	^^ 966.0 984.6 Rhyolite ?, massive, grey								
										LW/SS	** 984.6 1205.0 WACKES AND SANDSTONES								
										LW	^^ 984.6 993.9 Lapilli Wacke, felds-pathic matrix, with pR lapilli								
994.00										LW#,mp	^^ 993.9 1000.0 Lapilli Wacke, dark green, altered, with magnetite & pyrrhotite	a					2		
	100	100	R3	c	30	2						a					2		
				b	50							a					2		
				c						LW#,mp	^^ 1000.0 1011.0 Interbedded lapilli Wacke dark green, altered, with magnetite & pyrrhotite	a					2		
				c															
1004.00				a															
	100	100	R4	b	20	2													
1008.00				c	40														
	100	90	R4	c	20	2													

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				c	40						FW	^^ 1011.0 1024.0 Feldspathic Wacke								
				b																
1016.00				c																
	100	95	R3	b	15	2														
				c	50															
				c																
				c							SS	^^ 1024.0 1036.0 Sandstone								
1026.00				a																
	100	100	R4	a	10	2														
				a	50															
				b																
				c																
1036.00				c							SS/FW	^^ 1036.0 1054.0 Interbedded Sandstone,								
	99	95	R2	b	10	3						Feldspathic Wacke, with chert clasts,								
				a	40							with pyrrhotite, pyrite along fractures								
				a	60															
				a																
1046.00				a																
	100	90	R3	a	5	2														
				a	50															
				a																
				a							Ch	^^ 1054.0 1068.3 Chert, black, bedded								
1056.00				a								translucent								
	100	100	R3	a	5	2														
				a	50															
				a																
				a																
1066.00				a																
	100	100	R3	a	5	2					SL	^^ 1068.3 1115.0 Siltstone								
				a	30															
				b								Note: @ 1068.3-1072.0 Laminated, with								
				b								magnetite								
1076.00				b																
	100	95	R3	b	5	3														
				b	30															
				b	60															
1083.00				b								Note: @ 1083.0-1106.0 Scattered pyrrhotite	a				1	1	2
	100	90	R3	b	5	3						& pyrite along fractures	a				1	1	2
				b	30								a				1	1	2
				b	60								a				1	1	2

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b									a				1	1		2
1093.00				b									a				1	1		2
	100	100	R3	b	10	3							a				1	1		2
				b	30								a				1	1		2
				b	60								a				1	1		2
				a									a				1	1		2
1103.00				b									a				1	1		2
	100	100	R3	b	5	3							a				1	1		2
				b	30															
				c	60															
				b																
1113.00				c																
	100	100	R3	b	30	2														
1116.00					50						SL/W	** 1115.0 1205.0 SILTSTONE OR WACKE, hornfelsed with white granophyric quartz veinlets							
											gIR	^^ 1138.5 1164.0 Intrusive Rhyolite, pinkish beige, granophyric							
											LW/SL	^^ 1164.0 1205.0 Lapilli Wacke & Siltstone							

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
1206.00																				
	100	100	R2	c	5	2					Chp	^^ 1205.0 1208.0 Chert, with pyrrhotite	c				3	12		
				c	30						TS	** 1208.0 1296.0 TALCOSE SEDIMENT	c				3	12		
				c									c				3	12		
				b																
				b																
1216.00																				
	99	80	R2	c	5	3					BPs	^^ 1216.3 1223.0 Bedded Pyrrhotite, calcareous, with sulfides	c	5			3	15		
				b	15								c	5			3	15		
				c	40							Note: @ 1217.0-1243.0 Fracture Zone	c	5			3	15		
				c									c	5			3	15		
				b									c	5			3	15		
1226.00																				
	98	70	R2	b	10	3														
				b	50															
				b	70															
				b																
				b																
1236.00																				
	98	70	R2	b	10	3														
				b	40															
				a	60															
				a																
1246.00				b																

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-64

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
	99	95	R2	c	5	3														
				c	15															
				c	60						BP,l	^^ 1251.0 1252.5 Bedded Pyrrhotite, laminated, with chert	c				2	15		
				b																
				b																
											TS	^^ 1252.5 1258.5 Talcose Siltstone, with carbonate and black chlorite								
1256.00																				
	100	95	R2	b	5	3					ChT	^^ 1258.58 1272.0 Cherty Tuff								
				b	30															
				b	60															
				b																
1266.00				b																
	100	90	R2	c	10	3														
				b	30															
				c	60						TS,l	^^ 1272.0 1296.0 Talcose Sediments, laminnated, with sulfides	a				2	3		
				b									a				2	3		
1276.00				b									a				2	3		
	100	95	R2	c	5	3							a				2	3		
				c	20								a				2	3		
				c	40								a				2	3		
				c									a				2	3		
1286.00				c									a				2	3		
	100	100	R2	c	5	3							a				2	3		
				c	30								a				2	3		
				c	60								a				2	3		
				c									a				2	3		
1296.00				b									a				2	3		
	100	80	R2	a	5	3					Rt	>< 1296.0 1306.0 RHYOLITE TUFF, possible spherulite beds	a				2	3		
				a	30															
				b	60							Note: @ 1300.0-1301.0 Sheared Quartz Dike with 30 degree contact								
				b																
				c																
1306.00											QD	>< 1306.0 1386.0 QUARTZ DIORITE								
												^^ 1306.0 1323.8 Sheared, altered								

DRILL HOLE: LYN91-64

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
										gQD	^^ 1323.8 1339.5 Granophyric Quartz Diorite								
										QD	^^ 1339.5 1386.0 Quartz Diorite, coarse-grained, with pinkish patches								
											E.O.H. 1386' (total depth)								

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.7	-59.5
200'	180.9	-59.3
300'	181.6	-59.1
400'	183.0	-58.9
480'	183.4	-58.8

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: T. Harding
DATE COLLARED: 1-25-91
REMARKS: Log checked against assays
CORE SIZE: NQ

HOLE NO: LYN91-65 (WDNR #226)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-28-91

BEARING: S181.4E INCLINATION: -60.6 T.D: 480'
COORDINATES: L10500 E, 10740 N
ELEV: 1559.9' SEC: 15 TWP: 37N RANGE: 4E

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
0.0 57.0			><< 0.0 57.0 OVERBURDEN	
57.0 60.5	(not recovered)			
57.0 133.0		R	><< 57.0 133.0 RHYOLITE	
133.0 140.5		Ch	><< 133.0 140.5 CHERT	
140.5 153.7		W	><< 140.5 153.7 WACKE	
144.3 146.8		MSca	^^ 144.3 146.8 Massive Sulfide, Calcareous	144.3 146.8 27% Sp
153.7 158.4		TS	><< 153.7 158.4 TALCOSE SEDIMENT	
158.4 164.5		Xca	><< 158.4 164.5 TUFFITE, Calcareous	158.4 164.5 10% Sp
164.5 244.7		CS	><< 164.5 244.7 CALCAREOUS SEDIMENT	
195.0 200.0		CSs	^^ 195.0 200.0 Calcareous Sediment, With Sulfides	195.0 200.0 5% Sp
220.0 225.0		CSs	^^ 220.0 225.0 Calcareous Sediment, With Sulfides	220.0 225.0 6% Sp
240.0 244.7		TSs	^^ 240.0 244.7 Talc Sediment, With Sulfides	240.0 244.7 6% Sp
244.7 289.0		Rc	><< 244.7 289.0 RHYOLITE CRYSTAL TUFF	
289.0 297.6		Ch,><R	><< 289.0 297.6 CHERT, WITH SPHERULITIC RHYOLITE	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.7	-59.5
200'	180.9	-59.3
300'	181.6	-59.1
400'	183.0	-58.9
480'	183.4	-58.8

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: T. Harding
DATE COLLARED: 1-25-91
REMARKS: Log checked against assays
CORE SIZE: NQ

HOLE NO: LYN91-65 (WDNR #226)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-28-91

BEARING: S181.4E INCLINATION: -60.6 T.D: 480'
COORDINATES: L10500 E, 10740 N
ELEV: 1559.9' SEC: 15 TWP: 37N RANGE: 4E

DATE: 10-10-91
PAGE 1 OF 7

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
297.6 303.0		TS	** 297.6 303.0 TALC SEDIMENT	
303.0 309.0		Chp	** 303.0 309.0 CHERT, With Pyrrhotite	
309.0 348.0		xR	** 309.0 348.0 SPHERULITIC RHYOLITE	
348.0 442.5		SS/D	** 348.0 442.5 SANDSTONE/DACITE	
383.0 386.0		TS	^^ 383.0 386.0 Talc Sediment	
414.7 422.5		TS	^^ 414.7 422.5 Talc Sediment	
429.5 434.0		Chps	^^ 429.5 434.0 Chert, With Pyrrhotite and Sulfides	429.5 434.0 6% Sp, 10% Po, Py
442.5 480.0		QD	** 442.5 480.0 QUARTZ DIORITE	
442.5 456.0		gQD	^^ 442.5 456.0 Quartz Diorite, Granophyric	
			E.O.H. 480' (total depth)	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60 (T)

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
.0 57.0											** 0.0 57.0 OVERBURDEN								
											^^ 0.0 3.0 Muskeg								
											^^ 3.0 35.0 Fine sand								
											^^ 35.0 40.0 Silty sand								
											^^ 40.0 57.0 Sand, gravel, and cobbles								
										R	** 57.0 133.0 RHYOLITE								
										IR	^^ 57.0 61.0 Intrusive Rhyolite, orange-tan to grey, subtle feldspar phenocrysts								
									-15F										
61.00									-25F	FZ	^^ 61.0 89.0 Fault Zone, with granophyric rhyolite. Epidote-quartz along fractures								
	100	55																	
65.00																			
	99	50																	
68.00																			
	100	60																	
69.90																			
	100	90																	
75.00									-20F										
	100	100																	
76.90																			
	100	95																	
									-12F										
85.50																			

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%		Sp	Cp	Ga	Py	Po	As	T
	100	90																			
87.00										-55C											
	100	95									IR	^^ 89.0 120.0 Intrusive Rhyolite, Granophyric to porphyritic. Pink to salmon-red. Flat contacts.									
91.00																					
	100	100																			
95.00																					
	100	95								-8F											
97.00																					
	100	95																			
105.00																					
	100	95																			
115.00										-20F											
	100	100																			
122.00										-50C	R1	^^ 120.0 133.0 Rhyolite Lapilli Tuff, lt. grey, with pumice and chert clasts, blue quartz, glassy matrix and top									
	99	95	R2	b	10	2															
125.00				b	30																
	99	90	R2	b	5	3															
				c	15																
				c	70																
133.00				b						-60C	ChT	** 133.0 140.5 CHERT, black, fractured									
	99	50	R3	a	5	2															
135.00					35																
	100	95	R2	a	5	4															
				b	15																
140.00				a	30					-70C	W	** 140.5 153.7 WACKE, predominantly sediment or sandstone, with scattered blue quartz eyes. Bedded to contorted. Disseminated sulfides									
					55																
	99	95	R2	c	5	2															
					30																
142.00																					
	99	85	R2	c	15	3					MSca	^^ 144.3 146.8 Massive Sulfide, calcareous bedding, amber sphalerite		d	27	1					28
				b	35									d	27	1					28
				a	60								a		2		1				3
150.00				b									a		2		1				3
	100	95	R2	a	10	3							a		2		1				3

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				a	30						TS	** 153.7 158.4 TALCOSE SEDIMENT,	a	2			1			3
155.00				a	50							green, strong diopside alteration,	a	2			1			3
	100	100	R2	a	10	3						bedded to laminated	a	2			1			3
				a	30								a	2			1			3
				c	50					-85B	Xca,b	** 158.4 164.5 TUFFITE, weakly	c	10			2	1		13
				a						-72B		calcareous and bedded, 2-3% Po, Py	c	10			2	1		13
				a									c	10						10
163.80											CS	** 164.5 244.7 CALCAREOUS SEDIMENT, with	c	10						10
	100	100	R2	a	10	3						occasional non-calcareous units, bedded	a				1	2		2
				a	35							to contorted, disseminated magnetite and	a				1	2		2
				a	55							pyrrhotite, moderate marble development	a					2		2
				a						-80B			a					2		2
				a									a					2		2
													a					2		2
173.80													a					2		2
	100	100	R2	b	5	3						Note: @ 173.0-176.0 Rounded, altered	a					2		2
				a	30							sedimentary clasts (?), "oolitites"	a					2		2
178.00				a	50								a					2		2
	100	90	R2	b	5	3							a					2		2
				c	25								a					2		2
				c	55							Note: @ 184.0-195.0 Strong serpentine	a					2		2
185.00				b								alteration, "marble"	a					2		2
	100	100	R2	b	10	2							a					2		2
				c	60								a					2		2
				c									a					2		2
				c									a					2		2
195.00				b							CSs	^^ 195.0 200.0 Calcareous Sediment, with	b	5				2		7
	100	100	R2	c	20	2						sulfides, bedded with weak contortions	b	5				2		7
				c	40								b	5				2		7
				c								Note: @ 200.0 205.0 Magnetite	b	5				2		7
				c									a					2		2
				c									a					2		2
205.00													a					2		2
	100	90	R2	c	20	2						Note: @ 208.0-213.0 Possible shear zone,	a					2		2
				b	40							high angle 15-20 degrees	a					2		2
				b									a					2		2
213.00				b									a					2		2
	99	85	R2	b	20	2							a					2		2
				b	40								a					2		2
				b							CSs	^^ 220.0 225.0 Calcareous Sediment, with	b	6				2		8

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b								sulfides	b	6				2		8
223.00				b									b	6				2		8
	100	100	R2	b	20	2							b	6				2		8
				b	50								a					2		2
				b									a					2		2
				b									a					2		2
233.00				b									a					2		2
	100	100	R2	b	20	2							a					2		2
				b	50								a					2		2
				c							TS	^^ 240.0 244.7 Talc Sediment, with	a					2		2
				c								sulfides	b	7				2		9
				c									b	7				2		9
243.00				c							Rc	** 244.7 289.0 RHYOLITE CRYSTAL TUFF, lt.	b	7				2		9
	100	90	R2	a	20	2						grey, glassy matrix, quartz eyes,								
				a	50							occasional pumice or ash clasts								
				b																
250.00				b																
	100	95	R3	c	20	2														
				b	40															
255.00				b																
	99	95	R3	c	20	2														
				c	40															
260.00				b																
	99	80	R3	c	40	1														
				c																
265.00				c																
	99	95	R3	c	40	1														
270.00				c																
	100	100	R3	c	40	1														
				c						-60C	Rc,ch	^^ 274.0 289.0 Rhyolite Crystal Tuff, with								
				c						-60B		occassional 4-8" chert beds								
				c																
280.00				c																
	100	80	R3	a	20	2														
				a	40															
				a						-40B										
288.50				b																
	100	95	R3	b	15	2				-35C	Ch,*R	** 289.0 297.6 CHERT, interbedded with								
				b	40							ash and with spherulitic rhyolite								
				a								interbeds								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
295.00				b																
	100	95	R2	a	15	2					TS	** 297.6 303.0 TALC SEDIMENT	a					2		2
				a	40								a					2		2
				c									a					2		2
				c							Chp	** 303.0 309.0 CHERT, with pyrrhotite	a					5		5
305.00				c									a					5		5
													a					5		5
											xR	** 309.0 348.0 PREDOMINANTLY SPHERULITIC RHYOLITE, ashy	a					5		5
											D	** 348.0 442.5 DACITE/SANDSTONE								
												Note: @ 354.0, 356.0 and 362.0, 1-2" mafic dikes (?), green, brecciated, angular quartz fragments incorporated into dikes								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: % (T)

A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	I
										TS	^^ 383.0 386.0 Talc Sediment								
												c	1				10		11
												c	1				10		11
										TS	^^ 414.7 422.5 Talc Sediment	c	1				10		11
												c	1				10		11
												c	1				10		11
												c	1				10		11
												c	1				10		11
												c	1				10		11
												c	1				10		11
												c	1				10		11
										Chp	^^ 429.5 434.0 Chert-pyrrhotite, with sphalerite	c	6				10		16
												c	6				10		16
												c	6				10		16
										QD	^^ 434.0 437.0 Quartz Diorite apothesies, or dikelets in VCS	c	6				10		16
										QD	** 442.5 480.0 QUARTZ DIORITE								
										gQD	^^ 442.5 456.0 Granophyric Quartz Diorite								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

LYN91-65

SULFIDES: (T)
% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
											E.O.H. 480' (total depth)								

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	181.1	-65.2
200'	179.6	-65.1
300'	179.3	-65.2
400'	181.3	-65.2
500'	181.6	-65.1
620'	181.9	-65.0

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: A. Zielinski
DATE COLLARED: 1-25-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-66 (WDNR #214)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-29-91

BEARING: S179.6E INCLINATION: -65.5 T.D: 620'
COORDINATES: L10400 E, 11055 N
ELEV: 1559.9' SEC: 15 TWP: 37N RANGE: 4E

DATE: 7-18-91
PAGE 1 OF 10

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
0.0 48.0			** 0.0 48.0 OVERBURDEN	
48.0 51.0	(not recovered)			
48.0 72.8		pR	** 48.0 72.8 PORPHYRITIC RHYOLITE	
72.8 104.5		Wf	** 72.8 104.5 FELDSPATHIC WACKE	
104.5 150.5		Rt,*	** 104.5 150.5 RHYOLITE TUFF, Altered	
150.5 157.3		Rl,*	** 150.5 157.3 LAPILLI TUFF, Altered	
157.3 188.2		D	** 157.3 188.2 DACITE	
188.2 228.6		Rc	** 188.2 228.6 RHYOLITE CRYSTAL TUFF	
228.6 240.0		Rs	** 228.6 240.0 RHYOLITE SILL	
240.0 331.0		R	** 240.0 331.0 RHYOLITE	
331.0 333.5		D	** 331.0 333.5 DACITE	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	181.1	-65.2
200'	179.6	-65.1
300'	179.3	-65.2
400'	181.3	-65.2
500'	181.6	-65.1
620'	181.9	-65.0

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: A. Zielinski
DATE COLLARED: 1-25-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-66 (WDNR #214)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-29-91

BEARING: S179.6E INCLINATION: -65.5 T.D: 620'
COORDINATES: L10400 E, 11055 N
ELEV: 1559.9' SEC: 15 TWP: 37N RANGE: 4E

DATE: 7-18-91
PAGE 1 OF 10

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
333.5 349.4		Wl	333.5 349.4 LAPILLI WACKE	
349.4 363.6		Rd	349.4 363.3 RHYOLITE DIKE	
363.3 428.0		Wl,*	363.3 428.0 INTERBEDDED LAPILLI WACKE, Skarn	
428.0 433.1		MS	428.0 433.1 MASSIVE SULFIDE	
433.1 441.0		X,sk	433.1 441.0 TUFFITE, Skarn Alteration	
441.0 459.9		Wq	441.0 459.9 QUARTZ WACKE	
459.9 467.2		X,sk	459.9 467.2 TUFFITE, Skarn Alteration	
467.2 477.0		Rt	467.2 477.0 RHYOLITE TUFF	
477.0 491.0		X,ch	477.0 491.0 TUFFITE, Cherty Alteration	
491.0 510.5		Sk,t	491.0 510.5 SKARN, Talcose	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	181.1	-65.2
200'	179.6	-65.1
300'	179.3	-65.2
400'	181.3	-65.2
500'	181.6	-65.1
620'	181.9	-65.0

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: A. Zielinski
DATE COLLARED: 1-25-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-66 (WDNR #214)

DATE: 7-18-91
PAGE 1 OF 10

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-29-91

BEARING: S179.6E INCLINATION: -65.5 T.D: 620'
COORDINATES: L10400 E, 11055 N
ELEV: 1559.9' SEC: 15 TWP: 37N RANGE: 4E

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
510.5 554.0		Rt,t	** 510.5 554.0 RHYOLITE TUFF, Talcose	
554.0 620.0		QD	** 554.0 620.0 QUARTZ DIORITE	
			E.O.H. 620' (total depth)	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: (T)

% A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
0 48.0											>< 0.0 48.0 OVERBURDEN								
											^^ 0.0 4.0 Muskeg								
											^^ 4.0 25.0 Fine sand								
											^^ 25.0 30.0 Silty sand								
											^^ 30.0 48.0 Sand, gravel, and boulders								
										pR	>< 48.0 72.8 PORPHYRITIC RHYOLITE, flow coarse red feldspar laths at base, finer, mixed with white feldspar and quartz at top								
51.00																			
	99	crush																	
52.00																			
	99	70																	
55.00																			
	100	95																	
65.00																			
	100	95																	
										WF	>< 72.8 104.5 DEBRIS FLOW, red feldspar and quartz rich								
										WF	^^ 72.8 88.0 Feldspathic Wacke								
75.00																			
	100	95																	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60
(T)

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
85.00																			
	100	100								W/Ra	^^ 88.0 91.5 Interbedded Wacke and Ash, bleached								
90.50																			
	100	100								W/Ag	^^ 91.5 104.5 Lithic Wacke, Agglomerate, contorted bedding, large rhyolite clasts, brecciated and calcite filled fractures at base								
95.00																			
	99	95																	
99.00																			
	100	100																	
									-60C	Rt,*	>< 104.5 150.5 RHYOLITE TUFF, severely fractured and bleached, calcite and chert filled fractures and dike contacts 60 degrees, numerous dikes and associated alteration								
109.00																			
	100	95																	
116.50																			
	100	90																	
125.00																			
	100	100																	
129.00																			
	100	100																	
135.50																			
	99	95																	
141.50																			
	100	95																	
146.00																			
	100	100																	
										Rl,*	>< 150.5 157.3 LAPILLI TUFF, altered, bleached								
155.00																			
	100	100								D	>< 157.3 188.2 DACITE, fine-grained, black, pyrite in veins, areas plag-phyric								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: (T) % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
												rich								
165.00																				
	100	100																		
175.00																				
	100	100																		
185.00																				
	100	90									Rc	** 188.2 228.6 RHYOLITE FLOW, crystal tuff at base, fining upward into bleached sandstone, plag-phyric, alteration at top								
195.00																				
	100	100																		
205.00																				
	99	95																		
215.00																				
	99	95																		
225.00																				
	100	100	R2	c	15	3					Rs	** 228.6 240.0 RHYOLITE SILL, brecciated at base, k-feldspar rich								
				c	30															
				b	50															
233.00				b																
	100	100	R2	b	30	2														
				b	50															
				c							R	** 240.0 331.0 RHYOLITE, flow								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: (T)

% A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				c																
				c								^^ 240.0 273.0 Flow alteration near top								
243.00																				
	100	90	R3	b	10	3														
				b	40															
250.00				b	70															
												^^ 273.0 292.0 Flow, bleached siltstone at top								
											WF	^^ 292.0 323.6 Feldspathic Wacke								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
										LR	^^ 323.6 331.0 Lynne Rhyolite								
										D	>< 331.0 333.5 DACITE								
										Wl	>< 333.5 349.4 LAPILLI WACKE, chert and feldspar clasts								
										Rd	>< 349.4 363.3 FELDSPATHIC DIKE, upper and lower alteration, diopside bleaching								
										Wl,*	>< 363.3 428.0 INTERBEDDED LAPILLI WACKE, and zones of alteration, lapilli wacke: chert, feldspar, blue quartz eyes, rhyolite clasts, crudely bedded. Alteration zones: diopside, epidote and minor calcsilicate alteration Note: Alteration Zones, @ 379.0-384.0, @ 392.8-405.3, @ 411.8-417.6								

ROCK QUALITY: FRACTURE FREQ. A:0-3,B:3-10 C:10-30,D:30-100 E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: (T) % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%		Sp	Cp	Ga	Py	Po	As	T
423.00																					
	100	100	R3	a	40	1															
424.50																					
	100	95	R3	a	5	3															
				b	30						MS	** 428.0 433.1 MASSIVE SULFIDE, yellow-		f	72	4	1	6		92
				c	60							amber sphalerite		f	72	4	1	6		92
				b										f	72	4	1	6		92
				a							X,sk	** 433.1 441.0 TUFFITE, calcsilicate		f	72	4	1	6		92
435.00												alteration	d		17	6	8			31
	100	90	R2	b	10	3							d		17	6	8			31
				c	30								d		17	6	8			31
				c	60						Wq	** 441.0 459.9 DEBRIS FLOW, Agglomerate	d		17	6	8			31
				b								at base grading into quartz wacke, blue								
445.00				b								quartz eyes and chert clasts. Minor								
	100	80	R2	b	20	2						sulfides in fractures								
449.00				b	60															
	99	50	R3	a	20	1														
452.00																					
	99	45	R2	a	30	2															
454.50					60																
	100	65	R2	b	30	2															
				b	60																
459.50				b																	
	100	90	R3	b	5	3					X,ch	** 459.9 467.2 TUFFITE, cherty skarn	c		7	3	4	4		18
				b	30							alteration	c		7	3	4	4		18
				b	60								c		7	3	4	4		18
													c		7	3	4	4		18

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b							Rt	** 467.2 477.0 RHYOLITE TUFF								
470.00				c																
	100	90	R3	c	5	3														
				c	30															
				c	60															
				c							X,ch	** 477.0 491.0 TUFFITE, cherty alteration	c	9	3	4	7			23
480.00				b									c	9	3	4	7			23
	100	80	R3	a	5	3							c	9	3	4	7			23
				a	30								c	9	3	4	7			23
485.00				a	60								c	9	3	4	7			23
	100	90	R3	a	5	3							c	9	3	4	7			23
				a	40								c	9	3	4	7			23
				a	60					-55L	Sk	** 491.0 510.5 CALCSILICATE ALTERATION,	c	9	3	4	7			23
				a								lamination @ 55 degrees	b	3	1	1	3			8
495.00				a									b	3	1	1	3			8
	100	70	R1	a	5	3							b	3	1	1	3			8
				a	30								b	3	1	1	3			8
				a	60								b	3	1	1	3			8
			R3	a									b	3	1	1	3			8
505.00				a									b	3	1	1	3			8
	100	80	R2	a	5	3							b	3	1	1	3			8
				a	30						Rt	** 510.5 554.0 RHYOLITE TUFF, fine-	b	3	1	1	3			8
				a	60							grained, bleached in areas, chert,								
				b								calcite fracture fill								
515.00				b																
	100	100	R2	b	5	3														
				b	30															
				b	60															
				b																
525.00				b																
	100	95	R3	b	5	3														
				b	30															
				b	60															
				b																
535.00				b																

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-66

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
											Note: @ 554.0-564.3 Chill margin								
										QD	** 554.0 620.0 QUARTZ DIORITE								
											E.O.H. 620' (total depth)								

Noranda Exploration Inc.
Eastern Divison

DATE: 7-18-91

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.0	-59.5
250'	180.6	-59.2
400'	182.6	-59.1
650'	185.2	-58.8
780'	186.2	-58.2

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: J. Schaff
DATE COLLARED: 1-27-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-67 (WDNR #195)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-31-91

BEARING: S180.8E INCLINATION: -60.3 T.D: 780'
COORDINATES: L10100 E, 11390 N
ELEV: 1573.2' SEC: 15 TWP: 37N RANGE: 4E

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
0.0 73.0			** 0.0 73.0 OVERBURDEN	
73.0 77.0	(not recovered)			
73.0 134.0		gR	** 73.0 134.0 RHYOLITE, Granophyric	
1374.0 141.0		W	** 134.0 141.0 WACKE	
141.0 182.0		AG	** 141.0 182.0 AGGLOMERATE	
182.0 190.0		WL	** 182.0 190.0 LAPILLI WACKE	
190.0 202.5		Wch	** 190.0 202.5 WACKE, Cherty	
202.5 242.5		SS	** 202.5 242.5 SANDSTONE	
242.5 246.0		pIR	** 242.5 246.0 PORPHYRITIC INTRUSIVE RHYOLITE	
246.0 257.0		Sk	** 246.0 257.0 TACTITE	
257.0 263.0		SL	** 257.0 263.0 SILTSTONE	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.0	-59.5
250'	180.6	-59.2
400'	182.6	-59.1
650'	185.2	-58.8
780'	186.2	-58.2

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: J. Schaff
DATE COLLARED: 1-27-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-67 (WDNR #195)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-31-91

BEARING: S180.8E INCLINATION: -60.3 T.D: 780'
COORDINATES: L10100 E, 11390 N
ELEV: 1573.2' SEC: 15 TWP: 37N RANGE: 4E

DATE: 7-18-91
PAGE 1 OF 12

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY
263.0 372.8	
311.0 316.0	
348.8 359.5	
372.8 392.8	
392.8 419.0	
392.8 393.0	
394.0 395.4	
404.0 405.0	
405.0 419.0	
414.0 415.0	
419.0 435.4	
435.4 509.6	
452.0 460.0	
480.0 484.0	
487.5 490.0	
509.6 531.8	
517.5 522.0	

CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
pIR	263.0 372.8 PORPHYRITIC INTRUSIVE RHYOLITE	
RI	311.0 316.0 Lapilli Tuff	
WL	348.8 359.5 Lapilli Wacke	
W	372.8 392.8 WACKE	
WL	392.8 405.0 LAPILLI WACKE	
SL	392.8 393.0 Siltstone	
CS	394.0 395.4 Calcareous Sediment	
X,ch	404.0 405.0 Tuffite, Cherty	
Ch	405.0 419.0 CHERT	
pIR	414.0 415.0 Porphyritic Intrusive Rhyolite	
IR	419.0 435.4 INTRUSIVE RHYOLITE	
W	435.4 509.6 WACKE	
Wch	452.0 460.0 Wacke, Cherty	
CS	480.0 484.0 Calcareous Sediment	
CS	487.5 490.0 Calcareous Sediment	
CS	509.6 531.8 CALCAREOUS SEDIMENT	
MS	517.5 522.0 Massive Sulfide	

Noranda Exploration Inc.
Eastern Divison

HOLE SURVEY DATA

Footage	Bearing	Inclination
100'	180.0	-59.5
250'	180.6	-59.2
400'	182.6	-59.1
650'	185.2	-58.8
780'	186.2	-58.2

PROJECT: LYNNE P.D. 1876
CONTRACTOR: Midwest Drilling Co.
LOGGED BY: J. Schaff
DATE COLLARED: 1-27-91
REMARKS:
CORE SIZE: NQ

HOLE NO: LYN91-67 (WDNR #195)

CO./STATE: Oneida, WI
SCALE: 1"=10'
DATE COMPLETED: 1-31-91

BEARING: S180.8E INCLINATION: -60.3 T.D: 780'
COORDINATES: L10100 E, 11390 N
ELEV: 1573.2' SEC: 15 TWP: 37N RANGE: 4E

DATE: 7-18-91
PAGE 1 OF 12

DRILL HOLE SUMMARY

FOOTAGE	ROCK QUALITY	CODE	GEOLOGIC UNITS	MINERALIZATION & ALTERATION
531.8 571.0		Sk	>< 531.8 571.0 TACTITE	
571.0 609.0		Ch	>< 571.0 609.0 CHERT	
574.0 581.0		CS	^^ 574.0 581.0 Calcareous Sediment	
588.0 596.5		Xch	^^ 588.0 596.5 Tuffite, Cherty	
601.0 607.5		Xch	^^ 601.0 607.5 Tuffite, Cherty	
607.5 609.0		MSch	^^ 607.5 609.0 Massive Sulfide, Cherty	
609.0 640.0		MSca	>< 609.0 640.0 MASSIVE SULFIDE, Calcareous	
619.5 624.7		IR	^^ 619.5 624.7 Intrusive Rhyolite Dike	
640.0 649.5		Xca	>< 640.0 649.5 CALCAREOUS TUFFITE	
649.5 665.0		SS	>< 649.5 665.0 SANDSTONE	
656.7 659.0		Dd	^^ 656.7 659.0 Dacite Dike/Plagrphyric	
665.0 670.0		W	>< 665.0 702.3 WACKE	
670.0 704.0		QD	>< 702.3 780.0 QUARTZ DIORITE	
674.0 675.0		gQD	^^ 670.0 704.0 Quartz Diorite, Granophyric	
687.0 702.3		BP	^^ 674.0 675.0 Bedded Pyrrhotite	
		BP	^^ 687.0 702.3 Bedded Pyrrhotite	
			E.O.H. 780' (total depth)	

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: (T)
A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE	Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
0.0 73.0											** 0.0 73.0 OVERBURDEN								
											^^ 0.0 40.0 Fine sand								
											^^ 40.0 57.0 Silty sand								
											^^ 57.0 73.0 Sand, gravel, and cobbles								
										gR	** 73.0 134.0 RHYOLITE, black, with occasional apple green epidote altered zones. Visible quartz phenocrysts on fresh broken surface, fine-grained, occasionally grades into plag-phyric zones-dacite ?, granophyric								
77.0																			
	99	100	R4	c	10	3													
				b	30														
				b	75														
85.0				b															
	100	100	R4	c	20	2													
				c	55														
				c															
93.5				c															
	100	100	R4	c	20	2													
				c	40														
				c															
				c															
103.5				c															
	100	100	R4	b	10	3													
				c	30														
				c	60														
				c															
113.5				c															
	100	90	R4	c	25	2													
				c	55														
				b															
				c															
123.0				c															

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: (T)

% A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
	100	100	R3	b	20	2														
125.0					50															
	100	100	R3	b	20	2														
				b	50															
				b																
				b							W	** 134.0 141.0 WACKE (?), possible ash flow with elongated and chlorite altered pumice fragments								
135.0				b																
	100	90	R3	c	5	3														
				b	20															
				b	50						AG	** 141.0 182.0 AGGLOMERATE, Rhyolitic in composition, porphyritic, grey with orange (FeOx ?) alteration around clasts, clasts up to 4" long, heterolithic (clasts not equal to matrix)								
				b																
145.0				b																
	100	90	R4	b	5	3														
				b	20															
				b	50															
				b																
155.0				c																
	100	90	R3	c	20	2														
				b	50															
161.0				b																
	100	100	R3	c	20	2														
				c	50															
				c																
170.0				c																
	100	100	R3	c	10	2														
				c	50															
175.0				b																
	100	100	R3	b	10	3														
				b	30															
182.0				a	55						WL	** 182.0 190.0 LAPILLI WACKE, approximately 30% clasts (clast dominated), heterolithic								
	100	95	R3	b	10	2														
				c	60															
				b																
190.0				b							Wch	** 190.0 202.5 WACKE, Cherty, fine-grained, possible ash flow with chlorite altered pumice								
	100	100	R3	b	20	2														
				b	60															
195.0				a																
	95	85	R3	b	15	2														
				b	50															
202.5				a							SS	** 202.5 242.5 SANDSTONE, black to green,								

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: (T)
A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
	100	100	R3	a	15	3						fine-grained, possible ash and pumice in matrix (chlorite altered?)								
				a	30															
				a	50															
				b																
212.5				a																
	100	100	R4	b	10	3														
				c	30															
				c	50															
220.0				c																
	100	100	R4	c	10	2														
224.5				c	30															
	100	100	R4	c	10	2														
				c	30															
				c																
				c																
234.5				c								Note: @ 238.0-242.5 Rock is darker green (chlorite altered ?) and slightly contorted-possibly from nearby intrusive rhyolite							
	100	100	R4	c	20	2							a					1		1
236.5					50								a					1		1
	100	100	R4	c	15	2							a					1		1
				c	45								a					1		1
				c									a					1		1
				c							pIR	** 242.5 246.0 PORPHYRITIC INTRUSIVE RHYOLITE	a					1		1
				a																
245.0																				
	100	95	R4	a	5	3					Sk	** 246.0 257.0 TACTITE (?), skarn altered volcanic (?), strong diopside alteration, oolite like concretions-rounded to blocky							
				c	25															
				c	55															
				c																
255.0				c																
	100	100	R4	b	10	3					SL	** 257.0 263.0 SILTSTONE, laminated with weak interbedded wacke development								
				b	40															
				c	60															
				c							pIR	** 263.0 372.8 PORPHYRITIC INTRUSIVE RHYOLITE, black, feldspar phenocrysts, often subtle							
265.0				c																
	100	100	R4	c	5	3														
				c	30															
271.5				b	50															
	100	80	R4	a	5	3														
275.0				b	25															
					60															

ORIGINAL

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: (T) % A:1-5,B:5-10 C:10-25,D:25-40 E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
	99	80	R3	c	5	3														
				b	20															
				a	60															
				a																
285.0				a																
	100	90	R3	a	25	2						Note: @ 285.0-288.0 Large feldspar phenocrysts and minor blue quartz eyes								
290.0				a	60															
	99	85	R4	a	10	2														
				a	30															
295.0				b																
	100	90	R4	b	5	3														
				b	20															
				b	55															
				b																
305.0				b																
	100	85	R4	a	5	3														
				b	20															
				a	55															
312.0				b							R1	^^ 311.0 316.0 Lapilli Tuff or Wacke, crudely bedded, chlorite altered pumice								
	100	100	R4	a	5	3														
				b	20															
318.5				a	60							Note: @ 316.0-339.0 Rhyolite becoming finer-grained or more silicic								
	99	90	R4	b	10	2														
320.0					55															
	100	100	R4	b	15	3														
				b	40															
				b	55															
				c																
330.0				c																
	100	90	R4	b	15	3														
				c	30															
				b	55															
				b																
340.0				b																
	100	100	R4	b	20	2														
				a	55															
345.0				b																
	99	90	R3	c	10	2					WL	^^ 348.8 359.5 Lapilli Wacke, fractured, strong to moderate chlorite alteration								
				a	55															
				a																

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				a																
355.0				a																
	100	95	R3	a	20	3														
				a	40															
				a	60															
				a																
365.0				a																
	100	100	R3	a	15	3														
				b	30															
				a	50						W	>< 372.8 392.8 WACKE, medium-grained, abundant blue quartz eyes (trace "accidental" clasts, lapilli wacke?)								
				a																
375.0				a																
	100	70	R3	a	10	3														
				b	40															
				b	55															
				c																
385.0				b																
	100	100	R3	b	5	3														
				c	25															
				c	60						WLch	>< 392.8 405.0 LAPILLI WACKE, cherty, possible turbidity flow, weak skarn development								
				c																
				a																
											SL	^^ 392.8 393.0 Siltstone, fractured, (offset laminations)								
											CS	^^ 394.0 395.4 Calcareous Sediment, contorted bedding	a	10						10
395.0																				
	100	100	R2	b	35	2														
				b	70															
				b								Note: @ 401.0-401.7 Possible rhyolite dike, or large rounded agglomerate clasts								
				b																
				c																
											Xch,b	^^ 404.0 405.0 Tuffite, cherty with rounded cherty clasts, bedded								
405.0																				
	100	95	R3	a	15	3					Ch	>< 405.0 419.0 CHERT TO CHERTY LAPILLI								
				a	40															
				b	65															

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b							pIR	^^ 414.0 415.5 Porphyritic (?) Intrusive Rhyolite								
415.0				a																
	100	80	R4	a	10	3														
				a	30						IR	>< 419.0 435.4 INTRUSIVE RHYOLITE, trace disseminated sulfides								
				b	50															
				a																
425.0				a																
	100	95	R4	b	15	2														
				b	50															
				b																
				b																
435.0				b							W	>< 435.0 509.6 WACKE, medium-grained, blue quartz eyes, trace lapilli size clasts (?), occasionally grades to a crystal tuff (?), with predominatly quartz								
	100	100	R3	a	15	2														
				b	60															
				b																
				a																
445.0				b																
	100	85	R3	b	10	2														
				c	45															
				c							Wch	^^ 452.0 460.0 Wacke, cherty, blue quartz eyes								
				b																
455.0				b																
	100	95	R4	b	5	3														
				a	20															
				c	40							Note: @ 462.0-465.0 Concentric alteration halos around quartz (?)								
				c																
465.0				c																
	100	100	R3	c	20	2														
				c	40															
				c																
				c								Note: @ 474.0-475.0 Moderate diopside (skarn) alteration								
475.0																				
	100	100	R2	b	20	2														
				b	60						CS	^^ 480.0 484.0 Calcareous Sediment, weak diopside alteration								
				c																
				c																
485.0				c																
	100	100	R3	c	25	2					CS	^^ 487.5 490.0 Calcareous Sediment, weak diopside alteration								
				b	60															
				c									a	1		2				3

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: (T)

A:1-5,B:5-10
% C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				c																
495.0				c																
	100	100	R3	b	25	2														
				c	60															
				c							W	^^ 501.0 509.6 Wacke/Crystal Tuff,								
				b								coarse-grained, greenish-tan, abundant								
505.0				c								blue quartz eyes								
	100	95	R2	c	15	3														
				b	40						CSc	** 509.6 531.8 CALCAREOUS SEDIMENT, con-								
				b	60							torted bedding with subrounded, altered								
				b								matrix fragments								
515.0				b																
	100	100	R2	c	15	3					MSca	^^ 517.5 522.0 Massive Sulfide (or	d	35	1					36
				c	30							Tuffite, calcareous, crude bedding,	d	35	1					36
				c	60							moderate diopside alteration	d	35	1					36
				b																
525.0				c																
	100	100	R2	c	10	3														
				b	30															
				c	60						Sk,z	** 531.8 571.0 TACTITE, dark green,	b	5		1				6
				b								skarnified calcareous sediment and	b	5		1				6
535.0				b								wackes ?, moderate to strong diopside	b	5		1				6
	100	100	R3	c	5	2						disseminated pyrite, sphalerite and	b	5		1				6
537.0					55							galena, trace magnetite	b	5		1				6
	100	100	R3	b	15	3							b	5		1				6
				b	40								b	5		1				6
				a	65								b	5		1				6
445.0				b									b	5		1				6
	100	100	R2	c	20	2							b	5		1				6
				c	50								b	5		1				6
				c									b	5		1				6
				c									b	5		1				6
555.0				c									b	5		1				6
	100	100	R2	c	20	2							b	5		1				6
				c	60								b	5		1				6
				c									b	5		1				6
				c									b	5		1				6
565.0				c									b	5		1				6
	100	100	R3	b	25	2							b	5		1				6
				b	60								b	5		1				6

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

DRILL HOLE: LYN91-67

SULFIDES: % (T)
A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
				b							Ch	** 571.0 609.0 CHERT, moderate diopside alteration	b	5		1				6
				b																
				b																
											CSb	^^ 574.0 581.0 Calcareous Sediment ?, well bedded to weakly contorted, minor serpentinite								
575.0																				
	99	90	R3	b	5	3														
				b	30															
				a	60															
				a																
585.0				a																
	100	100	R3	b	5	3					Xch	^^ 588.0 596.5 Tuffite, Cherty, highly fractured with galena and sphalerite in fractures	c	12	1	3				16
				c	30								c	12	1	3				16
				c	60								c	12	1	3				16
				c									c	12	1	3				16
595.0				c																
	100	95	R3	b	10	3														
				a	30															
				b	50						Xch	^^ 601.0 607.5 Tuffite, Cherty, bleached, weak diopside alteration, moderate fractures	c	7		3				10
				c									c	7		3				10
605.0				b									c	7		3				10
	100	100	R3	b	10	3							c	7		3				10
				c	30						MSch,b	^^ 607.5 609.0 Massive Sulfide, Cherty, bedded	c	7		3				10
				c	60								d	35		2				37
													d	30		2				32
											MSca	** 609.0 640.0 MASSIVE SULFIDE, Calcareous, bedded to contorted	d	30		2				32
													d	30		2				32
													d	30		2				32
												Note: @ 609.0-610.0 Strong diopside alteration	d	30		2				32
612.5																				
	100	100	R3	c	25	1														
615.0																				
	100	95	R3	c	5	3														
				c	20						IR	^^ 619.5 624.7 Intrusive Rhyolite Dike, green, aphanitic	d	30		2				32
				b	60								d	30		2				32
				a									d	30		2				32
625.0				b									d	30		2				32
	100	100	R3	c	30	2							d	30		2				32
				c	60								d	30		2				32
				c									d	30		2				32
				c									d	30		2				32

DRILL HOLE: LYN91-67

ROCK QUALITY:

FRACTURE FREQ.
A:0-3,B:3-10
C:10-30,D:30-100
E:>100 cm.

SULFIDES: % (T)

A:1-5,B:5-10
C:10-25,D:25-40
E:40-60,F:>60

Run	%	RQD	Rf	ABCDE		Jn	Jrc	Ja	SpG	Fol	CODE	Lithology	Total%	Sp	Cp	Ga	Py	Po	As	T
635.0				c									d	30		2				32
	100	95	R2	c	40	2							d	30		2				32
				b	60						Xca,c	** 640.0 649.5 TUFFITE, calcareous,	d	30		2				32
				c								contorted to crudely bedded, elongated	c	10		1				11
				c								clast appearance possibly due to metaso-	c	10		1				11
645.0				b								matism, moderate diopside alteration	c	10		1				11
	100	95	R3	c	40	2							c	10		1				11
				b	60						SS	** 649.5 665.0 SANDSTONE OR FINE-GRAINED	c	10		1				11
				b								DACITE, abundant calcite filled frac-								
				b								tures, weak talc development								
				b																
655.0										-50C	D	^^ 656.7 659.0 Dacite Dike, plag-phyric								
	100	95	R2	c	30	2														
				c	60															
				b																
				b																
665.0				b							W	** 665.0 670.0 WACKE, medium to fine-								
	100	100	R2	c	5	3						grained								
				c	30															
				b	60						gQD	** 670.0 704.0 QUARTZ DIORITE, Granophyric								
				b																
				b							BP	^^ 674.0 675.6 Bedded Pyrrhotite, weak	c					10		10
675.0												talc development								
	100	100	R3	b	5	3														
				b	30															
				b	60															
				a																
685.0				a																
	100	100	R2	b	5	3					BP	^^ 687.6 702.3 Bedded Pyrrhotite, weak	c					12		12
				c	40							talc development	c					12		12
				c	60								c					12		12
				c																
695.0				c																
	100	95	R2	c	5	3														
				c	30															
702.0				c	60						QD	** 702.3 780.0 QUARTZ DIORITE								