

1980
DIAMOND DRILLING REPORT
on the
CEDARFLAT CREEK PROPERTY

CENTERED AT CO-ORDINATES:

49° 28'N, 121° 6'W

N.T.S. 92H/6E

T. D. Lewis, P. Eng.

NORANDA EXPLORATION COMPANY, LIMITED

(No Personal Liability)

KANLOOPS, B.C.

DECEMBER, 1980

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#### INTRODUCTION

Noranda Exploration Company, Limited (No Personal Liability) optioned the Cedarflat Creek Property from Chris Larsen in January, 1980. The property consists of one 12 unit claim called C.F. #27222, located on June 30, 1979.

Previous work on the property consists of numerous partially caved trenches and a slumped adit. It is not known when this work was completed, probably 30 to 40 years ago. In 1967, Craigmont Mines Limited optioned the property for the pruposes of magnetic, geochemical and geological surveys (see Report on Geological, Geophysical, and Geochemical Surveys on the Rainy Nos. 1 to 32 mineral claims by R.J. Young, 1967).

During late June, 1980, Noranda crews established a 17.9 km grid, to follow-up and extend the Craigmont work. Magnetometer, C.E.M., soil geochemistry, and geological mapping surveys were performed to further assess the property.

In October, 1980, Noranda initiated a diamond drill program to test the C.E.M. conductor and soil geochemical anomaly over the metasediments. Two angle holes were drilled totalling 112.28 meters of E size core. The core was logged by T.D. Lewis and transported to the Kamloops office for storage. Ivor Saunders supervised the drilling and field operations.

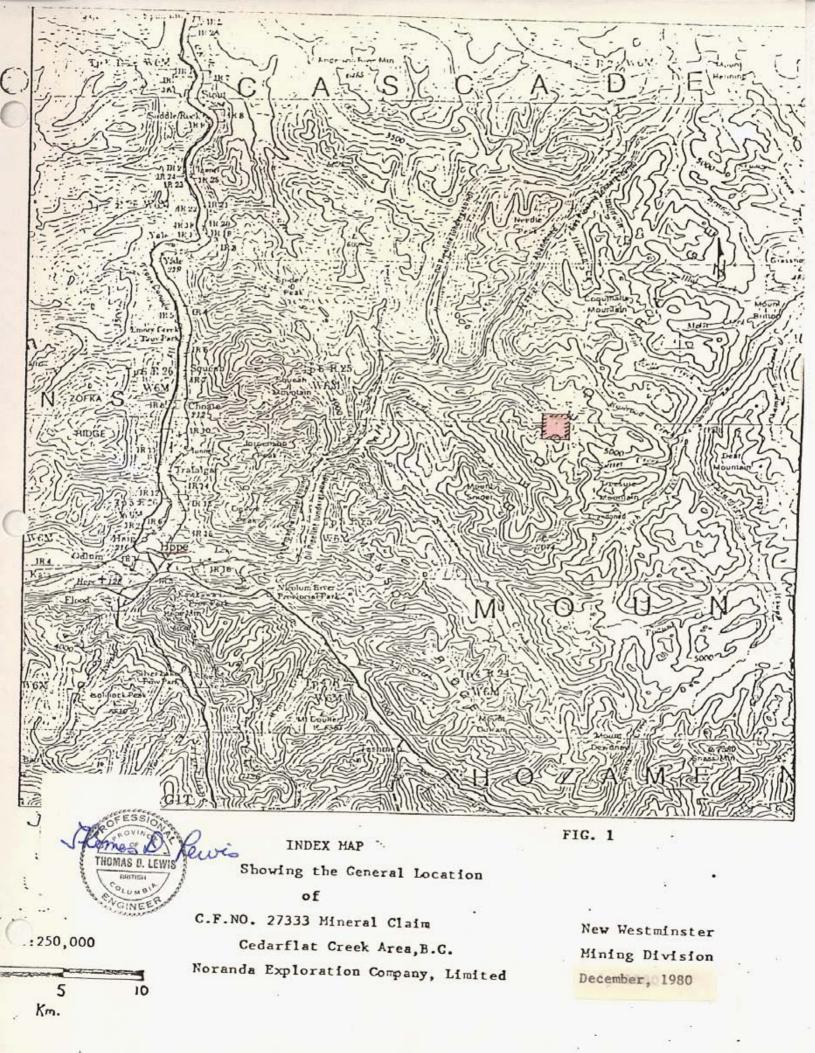
#### LOCATION AND ACCESS

The Cedarflat Creek Property is situated at the headwaters of Cedarflat Creek, which is 27 (air) kilometers at 075 (true) from Hope, B.C. Cedarflat Creek is a northwesterly draining tributary of Dwdney Creek, which in turn empties into the Coquihalla River.

Access to the property is gained by a fifteen minute helicopter trip from Hope, B.C. A logging landing offers good landing site, and is only .5 km from the showings (adit). Until recently, a four wheel drive road offered access from the Coquihalla River, up Dewdney Creek, and on to a side road up Cedarflat Creek. However, bridge washouts and numerous slides have rendered the road impassable.

#### CLAIM STATISTICS

The Cedarflat Creek Property is covered by one 12 unit claim staked by Chris Larsen, R.R. #3, Chilliwack, B.C., V2P 6H5. The claim was optioned



to Noranda Exploration Company, Limited (No Personal Liability) in December, 1979. The claim is located within the New Westminster Mining Division.

Claim Name	Record No.	Record Date	Units		
C.F. No. 27333	495	July 9, 1979	12		

#### DIAMOND DRILLING

### Equipment

Two E size (21.5 mm diameter) diamond drill were drilled powered by a portable winkee drill. The drill was flown onto the property by a 206B Jet Ranger owned by Highland Helicopters.

Drilling of the Cedarflat Creek Property was contracted out to Drilcor Industries Limited, of Vancouver, B.C. Ivor Saunders, a Noranda employee from Kamloops, supervised the drilling program.

### Drilling Statistics

Hole No.	Location	Direction/Dip	Depth	Collared	Completed
NC - 1	101N, 102+50E	060°/-60°	55 <b>.3</b> 8m	160ct.80	220ct.80
NC - 2	100N, 102E	060°/-60°	56.9m	230ct.80	270ct.80

#### Drilling Results

The diamond drill program was initiated to test a coincident C.E.M., and Cu - Zn soil geochemical anomaly. These anomalies were found earlier this year by Noranda crews (see Geological, Geochemical and Geophysical Report on the Cedarflat Creek Property, T. Lewis, July 1980).

Two angle holes were drilled on the anomaly. The holes were oriented perpendicular to both strike and dip. In addition, the holes were staggered along the strike of the stratigraphy, to maximize the test area.

Diamond drilling and assay results on the property indicate the anomalies were due to weak pyrrhotite-sphalerite-pyrite carobonate veinlets. The veinlets are very narrow ((2mm)) and occur at infrequent intervals at varying angles to the core. Selected intervals were split and assayed by Kamloops Research and Assay Laboratory. All assays have been entered adjacent to the appropriate sample interval on the drill log sheets. Gold and silver values are reported in terms of ounces per ton, while constitution are reported in percentages.

Thomas Da bewis P. Eng.

District Geologist

Noranda Exploration Company, Limited (No Personal Liability).

APPENDIX I

Statement of Qualifications

### STATEMENT OF QUALIFICATIONS

I, Thomas D. Lewis of the City of Kamloops, Province of British Columbia, do certify that:

- I have been employed as a geologist by Noranda Exploration Company, Limited since April, 1979.
- I am a graduate of Queen's University with a Bachelor of Applied Science in Geology (1975).
- 3. I am a member of the Association of Professional Engineers of the Province of British Columbia.
- 4. I am a member of the Canadian Institute of Mining and Metallurgy.

Thomas D. Lewis, P.Eng.,

Geologist,

Noranda Exploration Company, Limited (No Personal Liability)

APPENDIX II

DRILL LOGS

<b></b>				NORAND	DA EXPLORATION COMPAI	NY, L	IMITER	<u> </u>									
Collared	16 Oc	et 80	Completed 22 Oct 80	Core Size E	Property Cedarflat Cre	eek			Proje	ect No	48	NTS	NTS No. 92H/6 E				
			FIELD COORDINATES				/EYED (	COORDI	NATES			She	et 1	0	of <b>4</b>		
Lat. 1011	N		Elev.	Dip <b>-</b> 60°	Lat.	Elev.			Dip				le No.				
Dep. 102	+50E		Depth 55.38m	Bearing 060°	Dep.	Depth	h		Beari	_		יע [	DH N	NC-1			
Footage		Graphic Lo		Description		<del>'                                    </del>	% Sulp.	Est. Grade	Sample No.	Lt.	bedding angle to	Δu	140	Cu	70		
0m- 3.2m		o/b	overburden				Juip.	Grade			core axis	3	73		411		
3.2m-					d <u>siltstone</u> . Siltsto	1		1			50°						
11.98	n		shows evidence	(brecciation) of p	post depositional slu	ımpin	8,	<u> </u>	ļ!	<del> </del>			<del> </del>	—	<del></del>		
			Minor sulphides hairlike carbor	s (mainly pyrrhotit nate veinlets at 40	te and sphalerite) al	.ong	<b>₹%</b>					·-··					
				r in open spaces in idence of ground co	n the breccia as well ore. (6.95m)	1.											
i				and sample of py-sp					8.31m								
			10.8m - 10	J.95m - possible fa	ault zone, healed wit	<u>ch</u>		<u> </u>	10.8m-								
				and sph hand samottled bedding	.mple				10.95m		45 <sup>8</sup>						
			STATE OF THE STATE														
11.98m 12.98m	}		As above - inc Au	crease in po, and po	y - sampled to check	for			11.98m- 12.98m			.DD 2	.05	.01	.02		
			MA CONTROL OF THE CON														
12.98m 34m	<b>1</b>		As above - 12.9	98m - 17.22m - incre	ease in po and py.		1%										
	_		occur on the av	verage of one every	n carbonate fractures y meter. Thickness i	is											
	95%		up to 2cm. Ang	;le core to fractur m - 24.2m - gritty	res about 70-80, 15 y tuffaceous sandston	ne.						مايندن	ES	Sign			
			26.6 a 2cm quartz ve	65m - 27.15m - bleadein at 80° to core	ached grey siltstone axis.	with					Char	naci	DF S	X	uteo		
			31.6 stone.	65m - 31.7m - greer	nish grey laminated s	silt-					45°	Want Co	BRITIS	A J	200		
		1			DATE November 2	24/80	<del>້</del>	1	OCCED BY	T. !	Lewis	35	GINE	,,,,			

DATE November 24/80

\_ LOGGED BY\_\_\_T. Lewis

				ANDA EXPLORATION COM	JA EXPLORATION COMPANY, LIMITED										
Collared			Completed	Core Size	Property Cedarflat	Creek			Proje	ct No	48	NTS	No.		
			FIELD COORDINATI	ES		SURV	/EYED (	COORDI	NATES			Shee	et 2	of	4
Lat.			Elev.	Dip	Lat.	Elev.			Dip				No.	1	
Dep.			Depth	Bearing	Dep.	Dept	h		Bear	earing			DDH	NC-1	
Footage	Rec'y (	Graphic Lo	og	Description	n		% Sulp.	Est. Grade	Sample No.	Lt.	core	AU	Ag	Cy	<b>Z</b> n
			33.8m -	34.0m - 1cm calci	te-po-sph veinlet at	t 20°						7.134	19		
		paris Bil	to core axis												
			Andrew Market												
34.0r	1-		Grey, fine gra	ined tuffaceous sa	andstone, with interbostone with tiny whit	edded te									
			fragments. Fr	agments appear sub			g.								
				- hand samp			}-1%		35.80m- 35.82m		60°	-			
	36.0m - 36.17m - increase in 38.7m - 6cm of pyrrhotite in														
					ce + minor sphalerite	e in a					25°				
			quartz vein 40.15m -	distorted bedding	g, rock is somewhat h	bleache	d,				200				
			weak bedding								50°				
41.75m 42.75m	90%		Grey, gritty s with a marked	andstone - slight increase in pyrite	increase in grain si e. Rock is more frac	ize, ctured.	1-2%		41.75m- 42.75m			.004	.11	.03	.23
					·						3				
42.75m-			As above:												
43.6m	.6m							<u> </u>							
	•				01.101	^			-						

DATE November 24/80

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				IY, LII	MITE	)											
Collared			Completed	Core Size	Property Cedarflat C	reek			Proj	ect No	48	N.	NTS No.				
		.,	FIELD COORDINATES			SURVI	EYED (	COORDI	NATES			S	eet	3	of	4	
Lat.			Elev.	Dip	Lat.	Elev.			Dip			н	ole No	NC	•		
Dep.			Depth	Bearing	Dep.	Depth			Bea	ring			תעע	NU	- 1	!	
Footage	Rec'y	Graphic Lo	og e	Description			% Sulp.	Est. Grade	Sample No.	Lt.	angle core a	xis A	u Ac	16	11 7	^	
43.6m- 44.5m		0000	Gradational cont	act into a mixed,	pebble conglomerate, Fragments consist	with	h				50°		1	-			
44.5111					to white chert, green						- 30						
		000	chert in a oreg		natrix. Both matrix												
		000	and fragments co	ontain finely disse	eminated pyrite.		<b>⟨₹%</b>										
		000	>														
44.5m-		0 0 2	Weakly bedded, s	alt and pepper col	oured and textured,			-						+			
50.9m			sandstone, with	interbedded mixed	conglomerate.												
			45.26m - 4	5.46m - conglomera	te hand sample				45.36m -45.46m								
			47.55m - 4	7.6m - minor brecc	iation (fault) heale	d			-								
			by quartz.														
			··.\$	cm of pyrrhotite.													
	···········		<u></u>		rhotite quartz vein,			ļ. <u>.</u>	48.66m		ļ		_	$\perp$			
	_		with disseminate	d pyrite envelope	(hand sample taken)				48.75m								
50.9m	-		As above - incre	ase in po + sph, p	lus some brecciation	-	<del></del>	_	50.9m-								
51.9m	· · · · · · · · · · · · · · · · · · ·		minor	argillic alterati	on.				51.9m			.002		9	02 1.	42	
			×														
51.9m-		$1 \cup 1 \cup 1 \cup 1$			appears the conglom												
54.0m				n, and this brecciat					ļ								
	appears related to the introduction of pyrrlograms pyrrotite occurs in the open spaces of the																
		000		in the open space	s of the breccia.			-	ļ	<u> </u>				$\perp$	_		
		000	9														
	•				DATE November 2	4/80		L	OGGED BY_	т.	Lewis		-				

	~~~~	<del> , .</del>		NORANL	DA EXPLORATION COMP	'ANY, L	IMITEL	)							
Collared			Completed	Core Size	Property Cedarflat	Creek			Proje	ect No	48	NTS No.			
			FIELD COORDINATES			SUR'	VEYED (	COORDII	NATES			Shee	t <b>4</b> of	4	
Lat.			Elev.	Dip	Lat.	Elev.	T		Dip			Hole			
Dep.			Depth	Bearing	Dep.	Dept	th		Bear	ring		D	DH NC-1		
Footage	Rec'y	Graphic Lo		Description			% Sulp.	Est. Grade	Sample No.	Lt.	,				
54.0m- 55.38m			Gritty grey sand	stone, with interbiglomerate. Also a	pedded grit and min an occassional 1-2c	or m									
			thick, seam of p	yrrhotite, at 60°	to core axis.										
				End of Hole											
									,						
										,					
				A 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4							٠				
		-													
	l	L	<del></del>							.1	I	i	1		

DATE November 24/80 LOGGED BY T. Lewis

Collared 2	3 Oc	80	Completed 27 Oct 80	Core Size E	Property Cedarf	Property Cedarflat Creek						NTS No.92H/6E			
	22000		FIELD COORDINATE	s			RVEYED	COORDI	NATES			Shee	t 1 of	3	
Lat. 1001	1		Elev.	Dip -60°	Lat.	Ele	v.		Dig	)			No.	- 11	
Dep. 102E			Depth 56.9m	Bearing 060°	Dep.	. De	pth		Be	aring		ı	DH NC-2	\$	
Footage	Rec'y	Graphic Lo	9	Descriptio	n		% Sulp.	Est. Grade	Sample No.	Lt.					
0-3m		o/b	overburden												
3m			Interbedded, g	reenish grey silt	stone, with lesser	r sand-	-							+	
10.72m	80%			ional partings of	е.										
			Bedding is ver			8						_			
10.70				1-to toff Posses		1									
10.72m	_		-		ents are buff gre to subangular in						,				
					m across. Matrix				-8			-			
11m- 15.06m			Siltstone with	interbedded sand	stone - as above										
									20						
15.06m 21.9m			Monolithic <u>fel</u> minor pyrrhoti		ional fracture co	ntaining									
				경영하다 열심한 하면 하고 있다면 모든 경에 없는 얼마를 받았다면 하는 그를 입었다면 모든데	mottled, so as to previous hole th										
			Occassional pa	rting of minor py	d as a gritty sandring a gritty sandring a gritty sandring a gritty sphale.	rite.						A OF ES	SION	2	
			-7	lcite veinlet at hand sample of tu	50-70° to core ax	is.				,	The	MANAS	LEWIZE	wis	
			:									Se COLL	NEE Page		
	N 1				DATE_Nove	mber 25/	80	L	OGGED BY.	T.	Lewis		WE!		

					ANDA EXPLONATION (					NV I PARKET		1	e-constant		
Collared			Completed	Core Size	Property Cedar:	Property Cedarflat Creek					48	NT	NTS No.		
			FIELD COORDINATES			SUR	VEYED (	COORDI	NATES		,	Sh	eet 2 o	1 3	
Lat			Elev.	Dip	Lat.	Elev.	8		Dip			Н	ole No.		
Dep.			Depth	Bearing	Dep.	Dept	th		Bea	ring			DDH NC-2	ě.	
Footage	Rec'y	Graphic Lo	99	Descripti	on		% Sulp.	Est. Grade	Sample No.	Lt.	angle to	s			
21.9m- 43.8m	95%		siltstone. Occa	assional fractur	ne, with minor into	tite vein-									
			let at 45° to co		11 ( 1-2mm) white	fragments									
					re, with occassion + sphalerite carbo										
			veinlet. 32.0m - 32	2.5 - bleached o	core with occassion	nal									
	95%		epidote bleb and 34 - 34.3	[10] : [4] [10] [10] [10] [10] [10] [10] [10] [10	ite-pyrite re, minor epidote,	and	15%								
			occassional vein	nlet of pyrrhot: cm pyrrhotite -	ite-pyrite calcite veinlet w	ith a					40°				
			bleached envelop		et. rrhotite veinlet.						20°	-			
			42.3m - 4	2.5m - monolith	ic felsic tuff.										
								-							
43.8m- 46.1m			bedded quartz p	ebble conglomer	tured, sandstone wate. Long axis of	pebbles			<b>~</b>						
			at 90° to core. pyrrhotite + sp	Occassional vehalerite.	einlet of quartz-c	arbonate					900				
				2-75											
46.1m- 49.9m	000			h minor interbedde sional calcite-pyr	d "salt rhotite										
		0000	Veinlets.	einlets.							45°				
		000	>												

DATE November 25/80

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				1.0				-						
Cottared Completed Core Size				Property Ceda	arflat Cree	k		Pro	ject No	48	NTS No.			
	2110	memac	FIELD COORDIN	IATES		SUF	VEYED	COORDI	NATES			Shee	et 3 of	f 3
Lat.			Elev.	Dip	Lat.	Elev			Dip				e No.	
Dep.			Depth	Bearing	Dep.	Dep	th		Bea	ring		Di	DH NC-2	¥
Footage	Rec'y	Graphic Lo	og	Descrip	tion		% Sulp.	Est. Grade	Sample No.	Lt.				
49.9m- 52.3m			"Salt and p conglomerat	epper" textured same.	ndstone with inter	rbedded								
52.3m- 55.1m	1007	000		e with interbedded	sandstone.									
55.1m- 56.9m		658	"Salt and p	epper" sandstone n - 2cm quartz - py	rrhotite - pyrite	veinlet a	:							
	75° to core axis.				The state of the s	Ne andrease to the reserve								
				End	of Hole							-		
		1/2											¥7	
								-						
							25							
						***								
	-									-	8 8			

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APPENDIX III

Statement of Cost

#### STATEMENT OF COST

PROJECT LARSEN OPTION - CEDARFLAT (3)

DATE November 1980

TYPE OF REPORT DIAMOND DRILLING

a) Wages:

No. of Days

25

Rate per Day \$

88.2836

Dates From:

Oct. 1 to Nov. 28, 1980

Total Wages

25 x \$ 88.2836

2,207.09

b) Food and Accomodation:

No of days

25

Rate per day \$ 12.4936

Dates From:

Total Cost

25 x \$ 12.4936

312.34

c) Transportation:

No of days

25

Rate per day \$

106.076

Dates From:

Total Cost

25 X \$ 106.076

2,651.90

d) Instrument Rental:

Type of Instrument

No of days

Rate per day \$

-Dates From:

Total Cost

X \$

Type of Instrument

No of days

Rate per day \$

Dates From:

Total Cost

X \$

f) Analysis (See attached schedule) g) Cost of preparation of Report Author 1 Day @ 88.2836 88.28 Drafting 120.00 1 Day @ 120.00 Typing 1 Day @ 100.00 100.00 228.28 h) Other: Drilcore Diamond Drill Contract 9,698.76 Supervision: D.E. Cross P. Eng. G.E. Dirom P. Eng. 480.00 10,178.76 2 Days @ 240.00 \$15,578.37 Total Cost e) Unit costs for Diamond Drilling No of days No of units 113.38 M Unit costs \$137.3996 / M

\$15,578.37

113.38 × \$137.3996

Total Cost

