LOG NO: 0920	RD.
ACTION:	
FILE NO:	

DIAMOND DRILLING REPORT ON THE

FILMED

INTERNATIONAL DAMASCUS OX CLAIM GROUP

WHITESAIL - TAHTSA REACH AREA

OMINECA MINING DIVISION (NTS 93E/11)

SMITHERS DISTRICT, BRITISH COLUMBIA

FOR

GRANGES INC.

AUGUST 23, 1989

P.J. DEVEAUX
CONSULTING GEOLOGIST

TABLE OF CONTENTS

					<u>Page</u>
1.0		Introduction	•	•	1
2.0		Summary and Conclusion	•	•	1
3.0		Property - Location - Access	•	•	2
4.0		History - Previous Exploration and Development		•	3
5.0		Regional Geology and Local Geological Setting	•		4
6.0		Property Geology	•	•	4
7.0		Mineralization	•	•	10
8.0		Damascus Zone	•	•	10
9.0		Results of 1989 Exploration Program	•		11
10.0		Recommendation	•	•	13
11.0		1989 Statement of Expenditures	•	•	15
12.0		Statements of Qualification	•	•	16
13.0		References	•	•	18
		MAPS			
		MAPS		-	llows age
Figure	1	Location Map	•	•	1
Figure	2	Claim and Property Map	•		2
		APPENDIX I			
Figure	3	Diamond drilling plan and longitudinal projection - Damascus Zone			
Figure	4	Cross sections for holes OX-47 to OX-52			
Figure	5	Geophysical plan showing anomaly drilling			
Figure	6	Cross sections for holes OXE-1 and OXE-2			

APPENDIX II

Diamond Drill Logs & Record Sheets for Holes OX-47 to 52; OXE-1 and OXE-2.

CORE ASSAY CERTIFICATES:

File	#89-2483	21500	to	21572	_	2	pages
File	#89-2623	21573	to	21609	_	1	page
File	#89-2623R	21589	&	21591	-	1	page

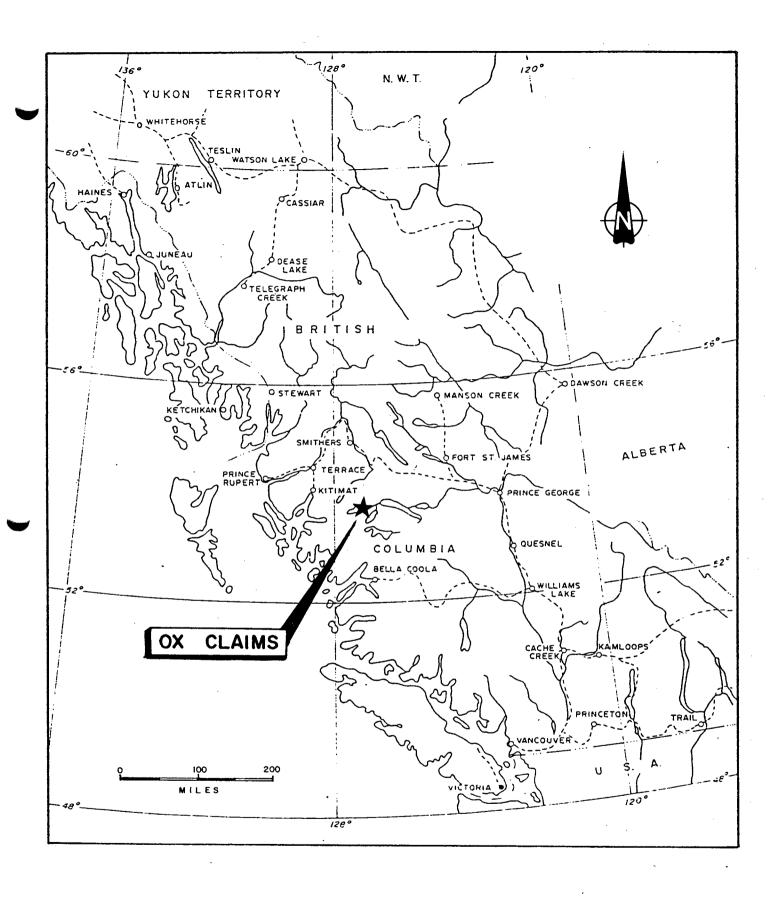
File	89-2483R	21518		1 page
		21537 - 21538	-	1 page
		21550 - 21551	-	1 page
		21556 - 21560	-	1 page
		21564 - 21571	_	1 page
		21543	-	1 page

1.0 INTRODUCTION

- 1.1 The purpose of this report is to summarize the results of the exploration work done on the OX Claim Group held by International Damascus Resources Limited and assess the mine making potential of the property.
- The program was conducted under the direction of P.J. 1.2 Deveaux, consulting geologist, between July 15 and August 1, 1989. A diamond drilling program totalling 748.56 metres in eight holes were completed on the OX-C (Damascus Zone) and OX East Claim Group. drilling, six holes or 561.42 metres were drilled to explore the depth extension of the Damascus Zone, a lead, and zinc mineralized shear small silver, previously explored by International Damascus. coincident IP-VLF-EM target, and geochem anomaly was investigated by two drill holes.
- 1.3 This drilling failed to intersect economic mineralization over mining widths.
- 1.4 No further work is recommended.

2.0 SUMMARY AND CONCLUSION

- 2.1 The OX Group of mineral claims consists of five 20-unit blocks covering an area of 2500 hectares.
- 2.2 Access to the property is by road and water, or by aircraft from Smithers.
- 2.3 The OX Claims Group was optioned from International Damascus Resources Limited by Granges Exploration Ltd. on September 1, 1988.
- The claim area is underlain by steeply dipping Jurassic rhyolite and volcaniclastic sedimentary rocks, intruded by quartz-feldspar tourmaline porphyry. A system of shearing and faulting trending north-south is known to contain narrow veins of silver, lead, zinc with limited tonnage potential.
- A diamond drilling program under contract to Van Alphen Exploration Services Ltd., Smithers, B.C. was carried out in July under the direction of Deveaux Exploration Services Ltd., a private exploration company based in B.C. The writer was assisted by John Swenarchuk, student.



LOCATION MAP

OX OPTION



FIGURE: 1

2.6 It is concluded that the Damascus Shear Zone is of insufficient width and grade to warrant further work. The investigation of a coincident IP-VLF-EM target and geochemical soil anomaly by drilling yielded no significant values.

3.0 THE PROPERTY - Location - Access

3.1 The OX Group of mineral claims consists of five twenty unit blocks covering an area of 2500 hectares.

		GROUP 1	
Claim <u>Name</u>	Claim <u>Number</u>	Area (Hectares)	In Good Standing To
OX A OX B OX C OX East	3732 3733 3734 4888	20 units (500) 20 units (500) 20 units (500) 20 units (500) - Total 2000 hecta	May 11, 1997 May 11, 1997 November 16, 1997
		GROUP II	
FOX	10061	20 units (500) - Total 500 hectar	<u>-</u> ,
		- Grand Total 2500	hectares

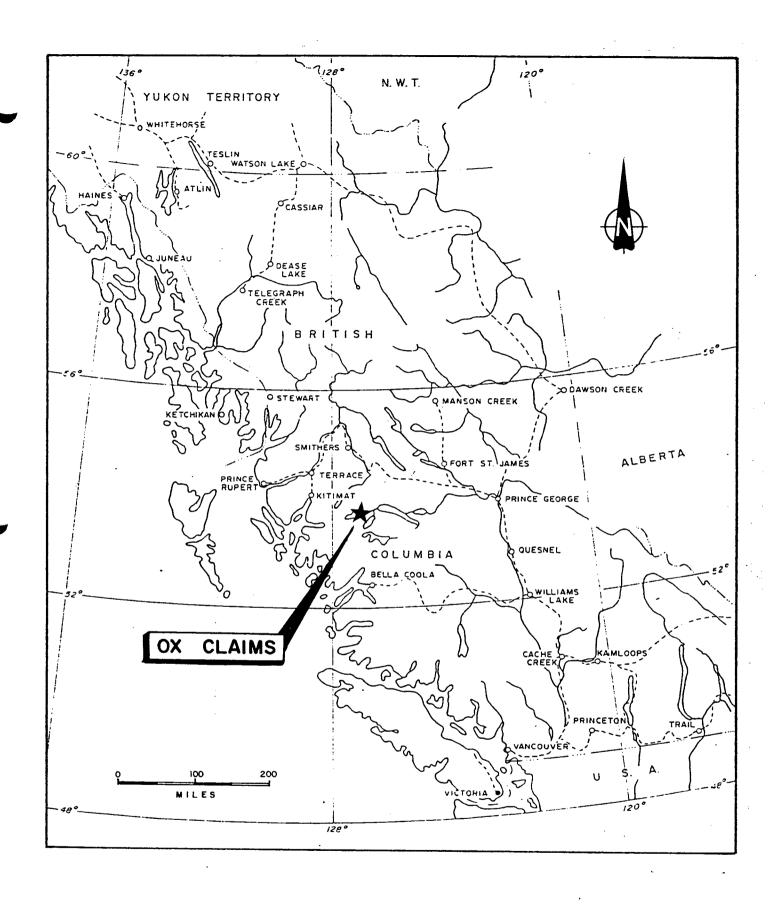
The FOX mineral claim was staked subsequent to the option agreement and was made part of the option on July 14, 1989.

3.2 Location

3.3 The OX Group of mineral claims is located some 145 kilometres south-east of the Town of Houston, British Columbia, in the Omenica Mining Division, about 6 kilometres east of where Kasalka Creek enters Tahtsa Reach.

3.4 Access

3.5 The property is accessible by 140 kilometres of allweather gravel road from Houston via the following route: Murice FSK to Morice-Nadina FSR to Francois FSR to Andrew Bay cut-off, then Tahtsa Main FSR to shores



LOCATION MAP,

OX OPTION,



of Tahtsa Reach (part of Kemano hydro-electric project). Boat 25km east to barge landing at mouth of Kasalka Creek. Four-wheel drive road to property, 8.5 kilometres east of landing. Travel time is 3 - 4.5 hours.

4.0 HISTORY

4.1 (a) Prior to 1981:

Major porphyry copper effort in late 1960's. Asarco and silver standard explored OX Lake deposit 5km to north (1968 to 1970) and outlined 23.6 million tons of 0.35 percent copper equivalent.

(b) 1981 - 1983:

Exploration by International Damascus Resources consisting of prospecting, soil geochemistry, ground magnetometer, airborne VLF-EM, diamond drilling; 910m in 36 holes (1983), 4 holes in 1982, outlined silver lead zinc mineralization (Damascus Zone) over narrow widths. Two other less significant zones (K and Hilltop veins) were located some 500 and 900 metres south-southwest of Damascus Zone on the OX-C Claim.

(c) 1984:

Work by Cominco consisted of ground geophysics including IP-VLF-EM, magnetometer surveys, geological mapping, rock geochemical sampling, backhoe, cat and wajax-pump trenching. Some of this work was concentrated in a 2000 by 600 metre high contrast Ag-As-Pb-Zn soil geochemical anomaly upslope from previously drill tested massive sulphide veins. This work located nothing of interest.

Following the Cominco program, exploration by Ager and Associates for International Damascus resulted in the drilling of 7 holes on the Damascus Zone (results of which were not made available to Granges) and 7 holes drilled to explore silver-lead-zinc-arsenic anomalies on the OX East mineral claim. No significant values were obtained from the anomaly drilling.

Additionally, 2 holes were drilled to explore the Hilltop vein, the results of which were again not made available to Granges.

(d) 1986:

A program consisting of line cutting, induced polarization (IP) VLF-EM, geological mapping and prospecting was carried out by Hi-Tec Resources Management Ltd. for International Damascus. The geophysical surveys located a coincident IP, and VLF-EM anomaly near the eastern boundary of the OX East claim.

5.0 REGIONAL GEOLOGY

The Whitesail Range is underlain by a basement sequence of mesozoic volcanic, volcaniclastic and epiclastic rocks, striking north-east and dipping steeply west, overlain by relatively undisturbed tertiary rhyolite ash-flows and basalt flows, dipping gently east. Intrusive rocks present include cretaceous granodiorite and monzonite and mid-tertiary diorite stocks and granitic dykes and sills. All units are displaced by apparent eastside down normal faults, and pretertiary units are transected by north-east verging thrust faults.

6.0 PROPERTY GEOLOGY

6.1 The following description of the geology is taken from a 1984 report by J.D. Blackwell, geologist for Cominco.

The OX-C claim is underlain by four disconformable rock packages, ranging in age from Jurassic to Tertiary, overlain by thick blanket deposits of Quaternary to Recent alluvium and lacustrine clay at low elevations in the north, thick basal till upon the hillside, and complex till and debris flow lobes from a recent landslide cover the uppermost southern portion of the property. Rock exposure is limited to 15%.

PACKAGE 1

The oldest package on the property, which is also the host to mineralization, is a homoclinal, west-facing sequence of felsic volcanic and volcaniclastic rocks and sills. The unit is inferred to be equivalent to the upper Jurassic Whitesail Formation of the Hazelton Group, although exposures on the property lack the characteristic reddish and grey-coloured flows described

by Tipper (1979). Neither the base nor the upper contact of this unit has been observed, and it appears to be separated from units to the east by a structural discontinuity. The western or upper contact is masked by overburden. Units strike 010° to 170°, averaging 175°, and dip west to 75° to 80°.

The lowermost unit, observed in drill core and outcrop is red to green dacite lapilli breccia, calcareous waterlain tuff and volcaniclastic breccia It appears to display a (conglomerate) and wacke. southward fining trend, suggesting a proximal to distal relationship with southward shedding of volcanic debris from a thick breccia ashflow to the north. is at least 30m thick. Overlying is a unit of cream to white rhyolite lapilli tuff and crystal tuff. ashflows are recognized here, each with a distinctive basal zone of cream-coloured lapilli in granular matrix, grading upward to crystal tuff. Maximum thickness is approximately 35m. The unit appears to thicken southward. The uppermost 3 to 5m of both ashflows is grey-coloured, perhaps due to post-depositional This unit hosts the "Damascus Zone" alteration. mineralization.

Overlying the rhyolite unit is 20m of mixed buff and grey rhyolite breccia and tuff, passing upward to a distinct 10m sequence of black volcaniclastic mudstone, tuff breccia, chert and pyritic wacke with abundant white rhyolite lapilli. This unit is an important mapping marker. Despite its recessive weathering nature, it can be readily traced through shallow overburden by the black coloration it imparts to the overlying soil.

Separating the black marker and overlying units is an intrusive sill of quartz-orthoclase-tourmaline porphyry. This mass is conformable, thickening to 40m northward and downward. To the south, up Poison Creek the porphyry pinches down to a thin wedge, and roof rocks are cut by 1-3m wide dykes and marked by tourmaline-pyrite coating of fracture surfaces with some wholesale replacement of wacke and breccia beds. The age of the porphyry body is not clear. It may post-date the Whitesail rocks, but pre-dates mid-tertiary Ootsa units which flank and unconformably overly the body.

Hanging wall to the sill is at least 150m of drab, greenish-white thick to medium-bedded lithic wacke and siltstone, with minor interbedded green laminated wacke

and thin rhyolite lapilli. Epiclastic beds appear to be volcaniclastic, derived from felsic material, and much of this unit may actually be altered thin rhyolite tuff beds. The uppermost unit is at least 50m of green to buff-coloured dacite or rhyolite lapilli tuff and breccia with thin, interbedded lithic wacke and siltstone. This unit weathers recessively, and any additional Whitesail Formation units up-section are overburden covered.

A differing and perhaps overlying Jurassic section is exposed along a west-flowing creek at UTM 628,000 E, 5,944, 300 N. Bedding strikes are 140° to 165° N, with an overall west-facing 50° dip. Dip reversals, perhaps due to faults, are common. The contact with older Whitesail formation was not observed.

This unit comprises an exposed section of at least 300m of reddish-brown lithic wacke, grey mudstone, chert and limestone breccia. Clastic rocks comprise 30-50cm thick rhythmic beds of pebbly lithic wacke, cross-laminated arenaceous wacke, slumped and laminated mudstone capped by black thinly laminated chert. Incorporated clasts and lithic fragments include porphyritic andesite, rare limestone, quartz and feldspar. Limestone breccias are heterogenous conformable bodies up to 20m thick.

PACKAGE II

The eastern portion of the property is underlain by flat-lying to gently north-dipping units of Package II. Neither the base nor the top of the section is exposed, and the unit is structurally discordant to the west with Whitesail units and disappears eastward into overburden. The lowermost unit is a distinctive medium-bedded, chocolate-brown weathering limestone containing abundant fossil debris of irregular pelecypods and high-spiral and felsic arenite gastropods, plus calcareous tuffaceous limestone, 15m thick. It passes upward into white to buff calcareous rhyolite breccias, rhyolite tuff and finally a thick (150 m+) lithic lapilli breccia/tuff unit. The lithic lapilli breccia/tuff unit is a distinct grey to green coloured rhyolite with abundant moderately welded black vitrophyre fragments in various stages of alteration and devitrification. The entire sequence is at least 250m thick. package is considered to be Jurassic or Cretaceous in age.

PACKAGE III

Three small outliers of rhyolite vitrophyre, welded ashflow tuffs and breccias are preserved in the Poison Creek "canyon" walls near UTM 628 700 E and 5,945,500 N. The rocks are tentatively assigned to the mid-Tertiary Ootsa Group, based upon the fresh, unaltered appearance (well preserved obsidian comprises the vitrophyre zones) and their unconformable relationship to older "Whitesail" rhyolite volcanic rocks.

Ootsa units occur as three scalloped outliers along the Poison Creek valley walls. The pre-Ootsa surface is gossanous and fractured. Four black vitrophyre zones are recognized with intervening greenish to pink-buff coloured rhyolite ashflow units in various stages of Internal contacts between welding units are welding. chaotic in general appearance, and steep contacts between welding units are common. Based on detailed observation (not plotted on accompanying geological maps), it appears that welded zone contacts mimic the outside contacts or valley walls, eutaxitic features and flow contacts are subhorizontal. Hence, these rocks are interpreted to represent subaerial pyroclastic flows which avalanched down the Poison Creek valley in mid-Tertiary time. Inherent in this interpretation is that the Poison Creek valley was a valley in Tertiary time, which was filled with pyroclastic debris, and was subsequently exhumed and reoccupied by creek waters.

The exploration significance of these units is that:

- a) they do not appear to have been moved into place structurally (faulted in)
- b) they are not altered, not mineralized, yet rest upon highly mineralized Whitesail rocks, with a paleosurface marked by a gossanous buildup
- c) hence, they constitute an upper age limit to mineralization, as mineralizing processes occurred prior to mid-Tertiary time

PACKAGE IV

Package IV includes plagiophyric basalt flows, breccias and ash units which cap the Whitesail Mountain Range. These rocks are a late Tertiary accumulation erupted from local edifices on Troitsa Peak. The bulk of this unit outcrops south and east of the OX-C claim. unconformable upon Mesozoic volcanic units. and thin flows are flat-lying; however, flow complexes dip in various directions, probably represent original On the property, this unit is composed of attitudes. 100m of bedded greenish coloured plagioclase airfall ash with locally abundant block and bombs of accidental vitric plagiophyric basalt, interbedded with stubby, short block vitric basalt agglomerate units and thin basaltic flows. It is overlain by at least 200m of highly vesicular, plagiophyric basalt flow, flow breccia and vitric scoria beds.

Immediately south of the map area, at approximately UTM 629,000 E, 5,943,000 N, an eruptive centre is defined by a vertical 70m wide pipe-like zone, of chaotic breccias, intense yellow-green clay alteration along joints and fractures, with a peripheral zone of intense Adjacent exposures of flows hematization. area, and are away from this agglomerates dip interpreted to represent a dissected stratovolcano cone. This eruptive centre may be one of several in the Whitesail Range.

INTRUSIVE ROCKS

a) Granite Stocks, Dykes, Sills

Medium-grained, greenish to white coloured quartz and feldspar-phyric granite outcrops in the east-central portion of the property. An intrusive contact is exposed in trench 6 in which the granite is intensely chlorite epidote-altered and adjacent volcanic units are contact metamorphosed with biotite porphyroblasts and have a "baked" appearance. The granite masses are probably small stocks or apophyses from a larger mass at depth.

Similar granitic rock is intersected in drill hole OX-32, again producing a small contact metamorphic zone in adjacent volcaniclastic rocks. Granite and adjacent country rock is marked by minor disseminated pyrite and tourmaline rich bands. It is possible that much of the eastern portion of the property is underlain at depth by a granitic sill. During trenching by Cominco several 2 to 4 metre wide, north-trending vertical granitic dykes were exposed in the Poison Creek valley and up to 200 m west. These dykes are frequently clay-altered, can be cut with a knife, and weather recessively.

b) Diorite

Outcrops of greenish to black medium-grained diorite and quartz diorite are found east of the granite stocks. The diorite is locally epidote-bearing and may contain biotite. A Tertiary age is considered likely, based on similar diorite-gabbro bodies in the region which have been assigned this age by Woodworth.

c) Latite

Maroon-coloured, feldspar-quartz-phyric vertical latite dykes striking north are exposed in the lower reaches of Poison Creek. These dykes are up to 5m wide and appear to cross cut major units and the Damascus Zone mineralization.

Metamorphism

The rocks on the OX property are subgreenschist metamorphic rock. Fracture cleavage, marked by cross grain shearing and chlorite cleavage is evident near faults and shears, particularly in volcaniclastic units of package I. Rocks of packages II, III and IV are not metamorphosed.

Structure

Limited rock outcrop and a paucity of marker units limit the delineation of faults.

Three parallel, west-dipping 020° trending reverse faults occur in the Poison Creek area. Sense of displacement is reverse, with east side down, however an unknown sinistral slip component may be present. The eastern most fault marks the contact of packages I and II. Cataclaysis and proto mylonites up to 4m wide mark the fault zones.

Small faults, striking 170°, with minor unit displacement, dip west at 70° to 85°. The Damascus Zone and K-vein mineralization occupy structures of this orientation.

7.0 MINERALIZATION

Rocks of package I and to a lesser extent, package II, have been extensively argillic-altered, fractured, and mineralized with disseminated pyrite-arsenopyrite-sphalerite. In addition, there are discrete, larger fracture-filling high grade Ag-Zn-Pb-Cu-Fe-Sb-Bi-Asbearing veins. Mineralizing processes appear epigenetic in nature and are likely early Tertiary aged.

8.0 DAMASCUS ZONE

- The Damascus Zone is defined as the vein showing immediately east of Poison Creek which was partially drill delineated by International Damascus in 1983 and 1984 and by Granges Inc. during 1989.
 - The zone is a multiple vein system with a single wide, well mineralized zone in the south with minor hangingwall mineralized shears, and two narrow parallel veins in the north, separated by up to 10m of barren rock.
 - The veins neck and swell over relatively short distances.
 - Average dips are 80° west, though local dip reversals occur.
 - Cross fractures which offset the vein structures are not evident. The occurrence of the zone is remarkably predictable.
 - Mineralogy: pyrite-marcasite with lesser arsenopyrite, galena, sphalerite, chalcopyrite, boulangerite, tetrahedrite and argentite.
 - Accessory minerals: tourmaline, chalcedonic quartz, clay, ferromanganese carbonates.
 - Sulphide grain size is highly variable from 2cm down to 5cm.
 - Veins are not mineralogically or texturally zoned or banded.

- The zone has been subjected to 45 diamond drill holes, 34 of which are located such as to intersect the vein structure. Of these, 6 holes explored the vein during 1989.
- North of drill hole OX-33, 5 backhoe trenched by Cominco in 1984 traced the veins north 120m.
- Two veins are present, crossing Poison Creek and transecting a Tertiary latite porphyry dyke.

9.0 RESULTS OF 1989 EXPLORATION PROGRAM

9.1 Collars of previously drilled holes on the Damascus Zone in 1983 and 1984 were located in the field and their location used as survey stations from which the horizontal and vertical location of the 89 series of holes was based on.

The grid layout on the attached maps is partly imaginary. The existing 10+00N section line and 92 +00E survey line (both not located in the field) were converted to 1800 north and 9200 east and used as focal points on all maps to which all other co-ordinates and drill holes are related.

9.2 During the preliminary field survey of existing drill locations, it was discovered that a total of 9 holes had been drilled during 1984. Data related to this drilling had not been made available to Granges.

Seven of these holes were drilled on the Damascus Zone and 2 holes drilled on the Hilltop vein.

The collar locations for the Damascus Zone drilling were tied into the existing grid and are shown on the attached drill plan but excluded from the longitudinal projection. Only limited information has since been made available to Granges.

A cursory examination of these holes which were found at the old Landsdowne camp situated a short distance west of the Damascus camp was carried out by the writer and Art O'Donnell.

The other 2 holes were drilled to explore the Hilltop vein. Both collars were tied into the vein and trench and their location plotted on Cominco's 1984 trenching and sampling plan no. 4.

- 9.3 A total of 748.56 metres in 8 holes were drilled on the OX-C (Damascus Zone) and OX East mineral claims during the period July 15 to August 1, 1989.
- 9.4 The object of the 1989 drilling program was to investigate the depth extension of the Damascus Zone, a small silver, lead, zinc mineralized shear and vein previously drilled by International Damascus during 1983 and 1984. The zone is located near the north end of the OX-C mineral claim.
- 9.5 A total of 6 holes (561.42 metres) were completed on the Damascus Zone and explored the mineralized vein over a strike length of 150 metres to a depth of 155 metres below surface. The maximum horizontal width intersected was 1.6 metres in hole OX-51 at a vertical depth of 140 metres below surface.

Geochemical assay results from this drilling are as follows.

9.6 Damascus Zone drill assay results:

		Hor. Depth Below			Grade Grams Percent						
Hole No.	Intersection	<u>Width</u>	Collar	Section	<u>Au</u>	Ag	<u>Cu</u>	Zn	<u>Pb</u>		
OX-47 OX-48 OX-49 OX-50 OX-51 OX-52	61.72-62.79 36.88-38.56 49.59-50.08 78.33-83.21 100.28-104.79 155.14-158.95	0.3 0.7 0.2 1.1 1.5 0.6	60.7 35.0 47.0 78.5 88.0 148	1838.N 1838.N 1701.6N 1752.5N 1691N 1730N	0.28 0.179 0.820 0.300 0.723 0.282	52.5 36.5 296.1 116.8 194.3 75.3	0.02 0.02 0.01 0.04 0.06 N.A.	1.6 1.4 6.8 3.3 2.7 0.86	0.5 0.13 1.7 1.5 1.1 0.49		

The above geochemical results for silver, lead and zinc are accurate only for values in the range of 34 grams silver and 1 percent for lead and zinc. The most significant assays for each hole were redone by regular acid leach assay and the results are included in Appendix II.

9.7 The 1989 drilling results appear to indicate a shallow southerly plunge (28°) to the zone which is still open in that direction.

9.8 ANOMALY DRILLING

Two holes (187.14 metres) were drilled to investigate a coincident VLF-EM and IP anomaly combined with elevated arsenic and zinc soil geochemical values. These holes are located near the eastern boundary of the OX East claims.

A very strong shear and fault gouge containing disseminated pyrite mineralization was found to be the source of the anomaly. This mineralization carried no values.

9.9 DRILLING RESULTS

Hole OXE-1, drilled at 45° east, collared into a very strongly sheared zone. As a result, core recovery was poor from 8.8 to 15.6 metres. The hole was stopped short of a second I.P. target located to the east, when it became apparent from the core angles that the dip of the formation was also east.

A second hole, OXE-2, located some 14 metres east of OXE-1 was drilled west in an attempt to explore the full width of the shear intersected in OXE-1. This hole was lost at 32.31 metres when the core barrel broke off in very bad ground conditions. A similar shear to that encountered in OXE-1 was intersected in OXE-2 with core recovery equally as poor. Core and sludge samples from this drilling carried no significant values.

The geological suite intersected by this drilling consisted of altered acid volcanics namely, rhyolite agglomerates, fragmentals, lapilli and crystal tuffs interlayered with dark grey to black collared fragmentals.

10.0 RECOMMENDATIONS

- 10.1 No further work is recommended on the Damascus Zone or the OX East anomaly.
- The Damascus Vein is considered too narrow and low grade to justify additional drilling. Values and width did not improve with depth. Both structural mining walls are very incompetent. The zone appears cut-off to the north. The mineralization is open to the south at depth where it appears to plunge at a shallow angle. Mine development would be costly and grade dilution high.

- 10.3 The area is isolated and would require barging ore and equipment across Tahtsa Reach.
- 10.4 Both the VLF-EM and IP anomalies have been explored by holes OXE-1 and 2 and their source explained by the shear and fault zone encountered in both drill holes.
- 10.5 The arsenic geochemical soil anomaly located down slope from the drill holes is probably due to arsenopyrite not observed in the drill core due to poor recovery.
- 10.6 The zinc geochemical soil anomaly was very local with only one significantly high reading. Its source remains unexplained.
- 10.7 Two samples taken from an iron stained seepage located a short distance to the north and down slope of the VLF-EM and IP target returned no significant values.
- The geological suite intersected are considered very favourable for locating polymetallic massive sulphide deposits. However, the lack of solid sulphide mineralization intersected combined with the absence of precious and base metal values, further drilling on this anomaly cannot be justified.
- 10.9 Core from all 9 holes are stored in sturdily built wooden racks a short distance east of the old Damascus camp site located near the mid point of the western boundary of the OX-C Claim.

11.0 1989 STATEMENT OF EXPENDITURES

/	"
O_{Λ}	v

Diamond Drilling: OX-47, OX-48, OX-49, OX-50 OX-51, 561.42m	\$64,447.00
Assaying: 100 Au/Ag/Cu/Zn/Pb/Ag geochem @ \$12.00 . 16 Au/Ag geochem @ \$9.50 5 Au/Ag/Cu/Zn/Pb assay @ \$21.75	1,200.00 152.00 108.75 15.75
Geologists Wages: 11 days @ \$175.00 per day 11 days @ \$65.00 per day	1,925.00 715.00
Report Preparation and Drafting	2,500.00
Office Overhead	7,106.35
TOTAL	\$78,169.85

OX-EAST

Diamond Drilling: OXE-1, OXE-2, 187.14m	\$21,106.47
Assaying: 39 Au/Ag geochem @ \$9.50	370.50
Geologists Wages: 4 days @ \$175.00 per day 4 days @ \$65.00 per day	700.00 260.00
Report Preparation and Drafting	850.00
Office Overhead	2,328.69
TOTAL	\$25,615.65

12.0 GEOLOGIST'S CERTIFICATE

- I, Patrick Joseph Deveaux, of the City of Vancouver of British Columbia do certify that:
- 12.1 I am a Consulting Geologist residing at 1076 Walalee Drive, South Delta, B.C.
- 12.2 I am a 1958 graduate of the University of St. Francis Xavier, Antigonish, Nova Scotia with a Bachelor of Science Degree in Geology.
- I have practiced my profession principally in Manitoba, Saskatchewan and British Columbia from 1958 to the present. This has included all phases of surface and mine exploration programs as well as property investigation and feasibility studies of mineral deposits.
- I have based this report on my personal on-site supervision of the 1989 exploration program and on a study of previous published and unpublished reports and on data supplied by International Damascus Resources Limited.
- 12.5 I have no interest, direct or indirect, in International Damascus Resources Inc.

Dated at Vancouver, British Columbia this 23rd day of August, 1989 P.J. Deveaux 1076 Walalee Drive South Delta, B.C. V4M 2L8

STATEMENT OF QUALIFICATIONS GEORGE W. ZBITNOFF 5160 CLIFF PLACE DELTA, B.C.

Name: Zbitnoff, George William

Birth Date: August 15, 1938

Birthplace: Saskatoon, Saskatchewan

Graduated with Grade 12 matriculation from Blaine Lake High School in 1955.

Graduated from University of Saskatchewan with a B.A. (Geology and chemistry majors) in 1963.

Professional

Associations: - Member of the Association of Professional Engineers of the Province of Manitoba.

- Member of the Association of Professional Engineers of the Province of British Columbia since 1973.
- Member of the Canadian Institute of Mining and Metallurgy.

Experience:

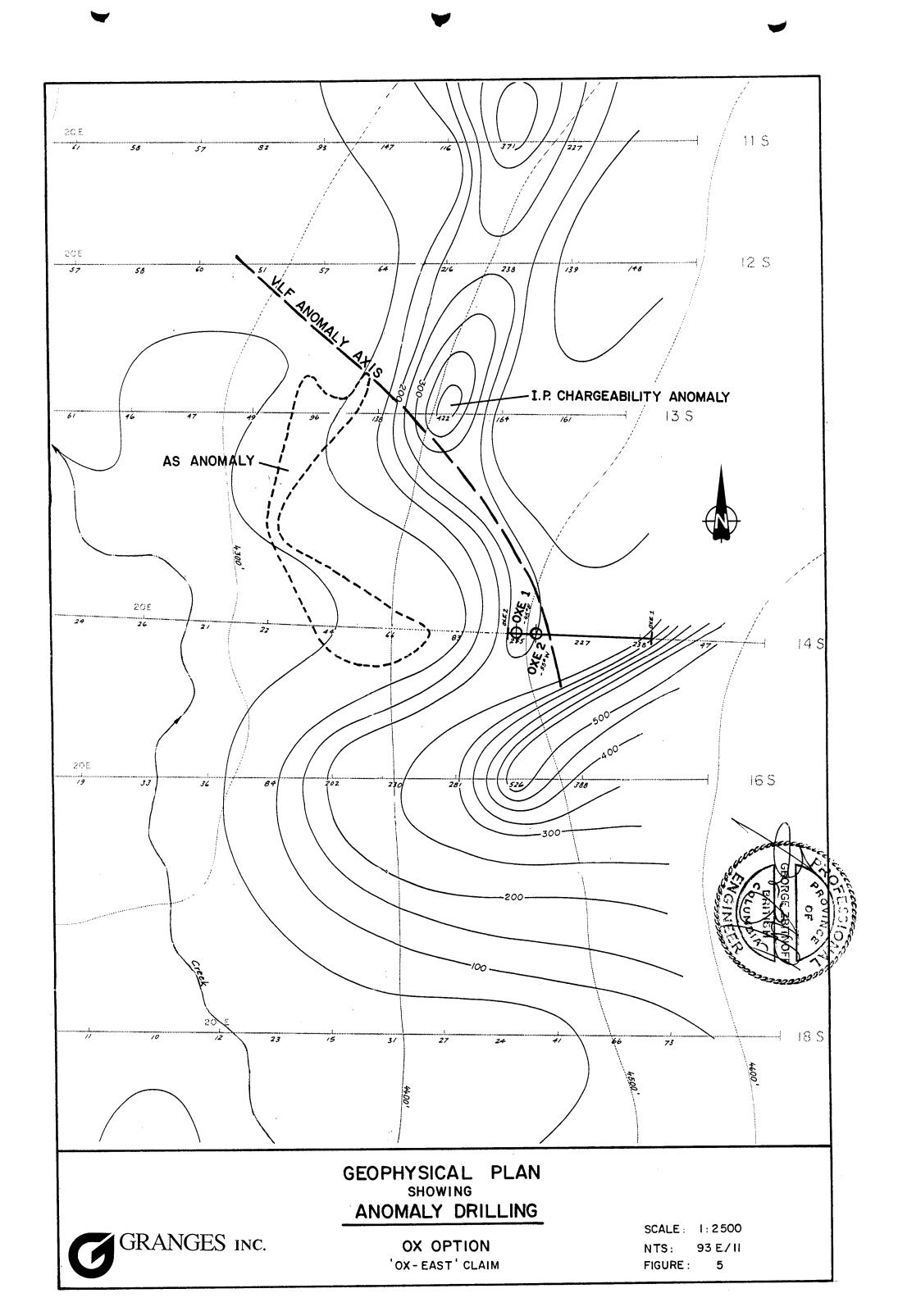
- Pre-graduation experience in geology with the Department of Mineral Resources of Saskatchewan.
- May 1962 Two and one half years, field geologist with Hudson Bay Exploration and Development, Flin Flon area.
- January 1965 Six years, field and resident geologist with Noranda Exploration Ltd., Flin Flon area.
- February 1971 Twelve and one half years, Assistant Manager, Granges Exploration Aktiebolag in Vancouver, B.C.
- November 1983 to present Vice President Exploration, Granges Exploration Ltd. in Vancouver, B.C.
- Active geological experience in all provinces of Canada and parts of the United: States and Mexico.
- Participated in the discovery of Trout Lake Mine.

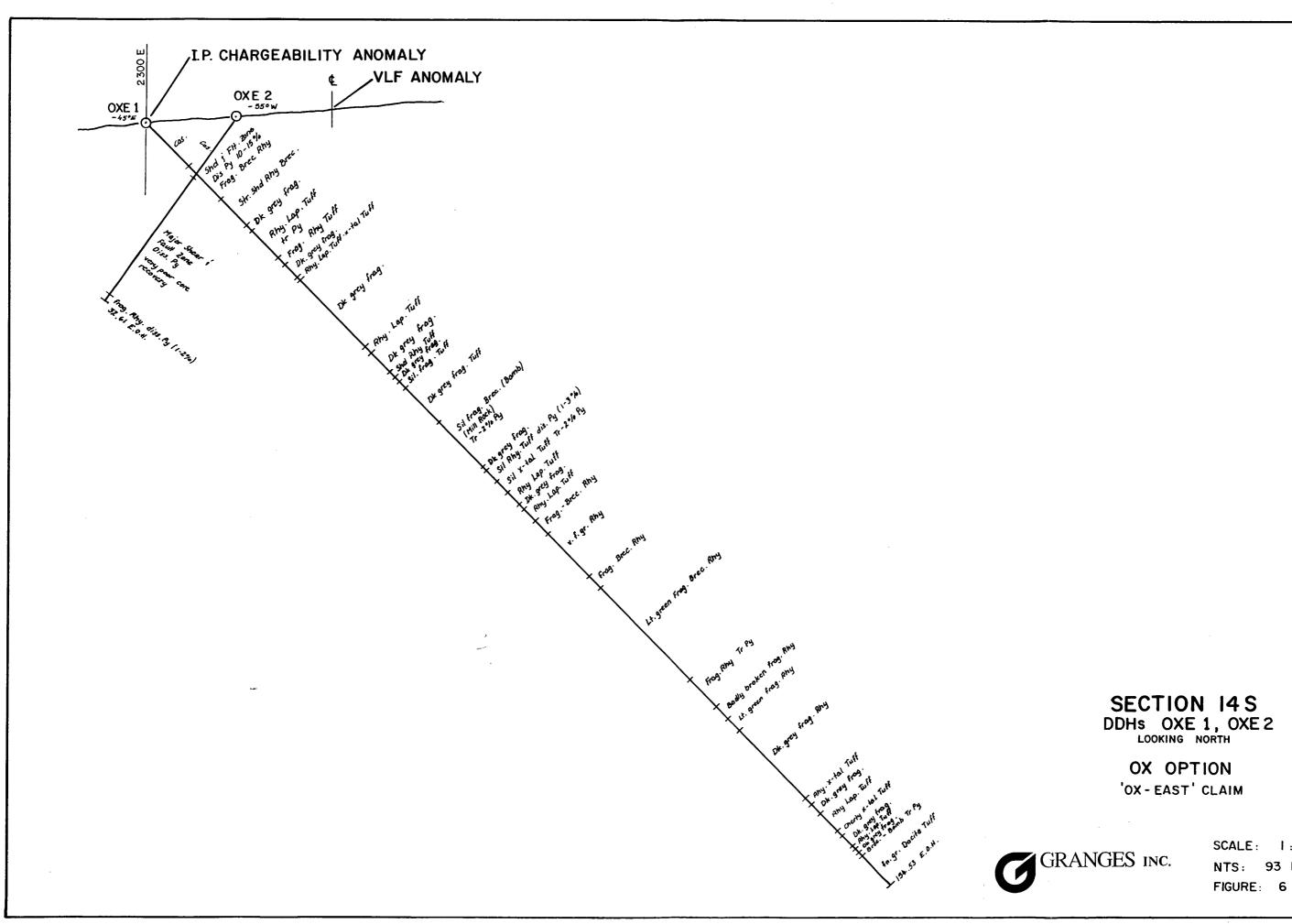
13.0 REFERENCES

- 13.1 A partial list of publications containing information pertinent to the area of the OX Claim Group is as follows:
- 13.2 Review of 1982-83 exploration on OX-A, B, and OX-C mineral claims by L.B. Goldsmith, Paul Kallock, and H.C. Davidson.
- 13.3 1983-84 Exploration Program on OX East mineral claim by P. Kallock and L.B. Goldsmith.
- 13.4 1984 Exploration Program on OX-C mineral claim by J.D. Blackwell, Cominco.
- 13.5 1986 Exploration Program on OX East and OX-C mineral claims by A. Smallwood and J. Paul Sorbara.
- 13.6 OX Lake copper-molybdenum deposit by Gorden Richards, Quintana Minerals Corporation.

APPENDIX I

Figure 3	Diamond drilling plan and longitudual projection of Damascus Zone, in pocket
Figure 4	Cross sections for holes OX-47 to OX-52, in pocket
Figure 5	Geophysical plan showing anomaly drilling
Figure 6	Cross sections for holes OXE-1 and OXE-2





SCALE: 1:500

NTS: 93 E/II

APPENDIX II

Diamond drill logs and record sheets for holes OX-47 to 52; OXE-1 and OXE-2

Core Assay Certificates, in pocket

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: COTE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY. D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GRANGES EXPLORATION PROJECT 133 FILE # 89-2483 Page 1

SAMPLE#	Cu				As		
	PPM	PPM	PPM	PPM	PPM	PPB	
21500	661	72	479	4.1	105	14	•
21501	408	327	898	5.8	231	15	
21502	165		545				
21503	83		349				
21504	177						
21505	323		693		283	4	
21506	202		307		553		
21507	54	777	3745	4.4	2844	131	
21508	183	593	1081	6.6	772	10	
21509	226	380	691	3.0	120	3	
21510	. 41	381	940	1.4	160	2	
21511	457		2147		429		
21512			775				
			1509				
21513	210	2064	4078	20.1	3502	125	
21514	312	2864	4078	28.1	1001	125	
21515		843			7473	74	
21516			991				
21517		1211			4929		
21518	258	5509	15985	52.5	21667	280	
21519	195	3451	9832	21.8	27374	250	
21520	129	2779	8573	17.9	23634	220	
21521	191		13366		9966	150	
21522	262	992			3456	59	
21523	192	501			1393	24	
21523	72	616			460	7	
21324	12	010	1103	4 .7	400	,	
21525	145	242	550	3.1	613	11	
21526		3082			11034	130	
21527	44.			1.0		6	
21528		676			773	15	
21529	414	567	4465	7.2		9	
21323	111	30.	1105	,	101		
21530	796	517	916	7.5	264	22	
21531	630	135	315	4.8	231	14	
21532	1086	584	984	13.6	609	36	
21533	270	264	660	3.4	231	13	
21535	464	55	147	1.8	18	8	
STD C/AU-R	58	44	132	6.6	41	490	

04-47

	Gid-inche Entrae.			. 200		05 000	
	SAMPLE#	Cu	Pb	Zn	Ag	As	Au*
	SAITI III #	PPM		PPM	-	PPM	PPB
			• • • • • • • • • • • • • • • • • • • •	~ ~		2 - 11	
010	21536	1063	145	771	3.6	221	14
0x-48	21537	193		18975			104
	21538	263		9765			270
	21539	172			2.4	329	2
	21540	121		100		204	2
	21541	65	19	113	.3	43	1
	21542	119	300	524	3.6	892	9
	21543	1510	16889	67939	296.1	44282	820
()	21544	352	1615	3735	34.3	3715	53
0x-49	21545	101	561	1194	8.6	917	15
• 1							
	21546	102	312	668		147	1
	21547	33	54	206	1.4	678	21
	21548	39	73	1013	1.3	432	4
	21549	120	18	6486	1.4	361	22
	21550	189	103	430	10.2	487	4
	21551		16836		122.0	13779	310
	21552	222		6902		5189	112
	21553		13570	35338		17693	370
	21554		14214		97.5	15488	410
	21555	417	13789	23985	117.3	15015	380
	04556		20007	22001	105 6	14677	210
WX-50	21556		20807		195.6	14677	310
	21557		23350		124.5	12157	250
	21558	101	1327	4003		361	10
	21559	426	4880	10999		3525	80
	21560	306	4119	5707	57.2	1159	38
	21561	211	549	1060	11.5	1830	19
	21562	107	281	824	2.5	514	1
New years and the same of the	21563	375	1349	1649	27.1	509	10
	21564			40746			800
•	21565		15090	39519		37157	860
	21303	037	13070	33313	233.0	3,13,	000
	21566	457	9505	12965	225.2	36757	860
	21567		10854	19513		16874	410
	21568	379	4272	11017	73.0	8057	129
01-21	21569		13723	25866		45827	1020
	21570		21592		191.7	57875	1180
	21571	263	6857	11657	112.8	17963	330
	21572	350	484	1050	8.8	484	11
	STD C/AU-R	59	42	133	6.6	42	510

⁻ ASSAY REQUIRED FOR CORRECT RESULT (Pb, 2n, As 71)/2
174 - 30 pp.

ACME ANALYTICAL LABORATORIES LTD.

BATE RECEIVED: AUG 2 1989
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED:

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: COTE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY. ... D. TOYE. C.LEONG, J. WANG: CERTIFIED B.C. ASSAYERS

GRANGES EXPLORATION LTD. PROJECT 133 FILE # 89-2623

GRANGES	EVLPOKALION	nin.	FRODECT	133	LIDD #	2023
	CAMPLE!	51		n	71 TT U	
	SAMPLE#	Pb		Ag	AU*	
		PPM	PPM	PPM	PPB	
					440	
	21573	-	-	. 4	113	
	21574	-	-	. 4	19	
	21575	-		. 1	9	
	21576	-		. 2	9	
	21577	-	• ••	.3	20	
	21578	-	-	1.3	17	
	21579	-	-	. 4	13	
04-52	21580	-	-	1.7	8	
0x-32	21581	-		2.8	24	
	21582	-	-	29.5	250	
	21583	-	-	1.7	20	
	21584	-	-	29.1	26	
	21585	-		1.4	56	
	21586	_	-	2.5	6	
	21587	-		2.7	5	
	21588	_	· , -	22.6	, 83	
	21589	10714	8934	175.1	590	
	21590	1521		26.4	38	
	21591		13551√			
	21592	- 1001	-	.5	8	
	21332			. 3	Ū	
	21593	_		. 3	4	
	21594	_		. 1		
OXE-1	21595	_		.1	2	
OXE-1	21596			.3	3	
·	21597			.2	4 2 3 3	
	21397	_	_	. 2	J	
	21598	-		. 1	1	
Assay Required for Correct Result.	21599	-		. 1	2	
Assa Required for	21600	_	_	. 1	4	
113507	21601	_	_	. 4		
Consect Result.		_	_	. 1	5 2	
	21602			. 1	۷	
	21603	_		. 1	1	
	21604	_		.1	2	
_	21605		_	.1	2 2	
		-		.1	2	
	21606	-	_			
	21607	-	-	. 1	1	
	21608		<u> </u>	. 1	1	
	21608		- -		1	
	21009	-		.1	L 1 U	

COO CANTED

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: AUG 16 1989 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED:

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp

SIGNED BY . . . D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GRANGES EXPLORATION LTD. PROJECT 133 FILE # 89-2623R

SAMPLE# Pb Zn Ag % % GM/T 21589 1.19 1.05 188.5 21591 .60 1.63 70.5

Recheck of geodomial 2551, by regular 2018 leach 25511

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: AUG 16 1989 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED:

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp

SIGNED BY. ... D. TOYE. C.LEONG. J. WANG: CERTIFIED B.C. ASSAYERS

GRANGES EXPLORATION PROJECT 133 FILE # 89-2483R Page 1

Pb	Zn	Ag
%	%	GM/T
-		•
.56	1.84	56.0
.24	1.91	27.5
.45	1.03	49.5
.01	.04	10.3
2.05	5.26	139.2
1.98	3.23	214.7
3.25	4.80	171.1
.47	1.04	57.6
.44	.50	55.2
2.15	3.38	186.9
2.69	3.65	334.6
.93	1.30	360.5
1.09	1.95	232.6
.40	1.00	71.9
1.17	2.26	287.6
2.03	4.30	203.8
.67	1.06	123.5
	% .56 .24 .45 .01 2.05 1.98 3.25 .47 .44 2.15 2.69 .93 1.09 .40 1.17 2.03	% % .56 1.84 .24 1.91 .45 1.03 .01 .04 2.05 5.26 1.98 3.23 3.25 4.80 .47 1.04 .44 .50 2.15 3.38 2.69 3.65 .93 1.30 1.09 1.95 .40 1.00 1.17 2.26 2.03 4.30

Page 2

GRANGES EXPLORATION PROJECT 133 FILE # 89-2483R

As % Bi Au zn Ni Co Mn Fe % SAMPLE# Cu Pb Ag Mo % GM/T % % GM/T ૠ % % .001 .16 6.36 6.79 1112.5 .01 .01 .12 12.00 3.93 .012 .01 .07 1.63 .01 .89 21543

Œ,

í

C

£

(

€.

(-

 $\binom{i}{2}$

€

Ç

Ç

(



Property OX OPTLON Project No. 133 Depth 32.61 Date Began Juy 30/89 Hole No. OXE-2 Co ord. 145 Horizontal Length 18 Date Completed Juy 31/89 Claim No. OX TEAST 2313 E Core Size N.Q. Drilled By VAN ALPHEN EXPL. SERV ANOMALY: SAME Ducmary Page 10F / Grid No New GRID Angle & Grid Direction 55° WEST Elevation 1372.6 Logged By P.J. D. Edisarce

INTERVAL	AS OXE-1 DESCRIPTION	SAMPLE RECORD						Cu	Zn
METRES	DESCRIPTION	FROM	TO	SAMPLE	WIDTH	G/T	GЙ	%	%
0-10-97	CASING								
0.97-31.70	MAJER SHEAR and FAULT TOUT			<u> </u>				ļ	
								<u> </u>	_
	Most or the core was Lost Due to bad Ground WHAT WAS			_				 	
	RECOURCED WAS MOINLY FRAGMENTAL RHYOLIZIE	ļ						ļ	
	PEBBLIES CONTAINING 01-2% disseminable Printe.			 				 	1-
	The SECTION BREDICS DOWN AS FOLLOWS:							· ·	1
	16.97-11-27 - 0.30 gray Petbles- 11-27-14.32 - 0044 0.30 pobbles & grand record-rost lost. 14-32-17.37 - Lost Cock.								
	11-27-14-32 - OULY 0.30 pobbles & grand lecovered-rost lost.								<u> </u>
	14-32- 17.37 - Lost Geb.			1					ļ
	17.37 - 20.42 - only tol pobbles and very badly butter rock recovered - vest Lost.								
· · · · · · · · · · · · · · · · · · ·	recobered - rest Lost.	<u> </u>		 				ļ	<u> </u>
	20.42-23.47 - ONLY 1.83 cm or public & grand - rest			 -		****			├
	22/12/21/21			 					├
	23.47-26.5 - 0.6/m grand only, vest Lost on								┼
	6.30 Bulls Caro							-	1-
	26.5 - 2956 - 1.22 OF brown Care - Rygolale Flagmonto								
	with disseminated Pyrite (1-22)								1
The state of the s	Randady Lost.								
	29.56 - 29.87 SAND OF RHYOLIE COMPOSITEN MICH								
	dissaminated Provide (1-22)								<u> </u>
·	39.87 - 30.17 Very baddy broken Rhyoute (Tangmonth)								
	* Pebbles.								
	30.17 - 30.93 BLACK SAVD								ļ
	135-93 - 31.10 dost care								ļ
	31.70 - 33:37 STRANGLY SHIESRIED FARAMONDAL KINDULE			ļ					
	with disseminated Pyrile (1-28)							<u> </u>	<u> </u>
		 		 					
	House Abandoned when coes BARREL broke OFE IN			 					-
				 				-	
	SSUD And CAUTE.			 				 	
						···		l	<u> </u>
			L						<u> </u>
·				 			·	 	1



Property OX OPTION	Project No / 3.3	Depth 32.67	Date Began $J \cup L Y = 30/Eq$
Hole No. OXE - 2	Co. and 145	Harizontal Length 18	Date Completed July 31/89
Claim No. OX EAST		Core Size	Drilled By VAN ALPHEN EXPL. SER
0:111 110 160	Anala 9 Dispotion	Floration 1372.6	Longed By P. J. Dalos ay

INTERVAL							WIDTH X ASSAY . AVERA					RAGES								
METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	:							WIDTH	Au.	Ag.	Cu.	Zn.		
0-10.97	CASIVY	10.97					*													
16.97-11-28	wasie	031														<u> </u>				
11-28- 11-58	21623	0.30	10	٠2																· .
1158-17.37	L. LCare	5.79																		
17.37 - 17.98 17.98 - 20.42	21624	0.61	1	-1						-										
17.98 - 20.42	Lost Ciez	2.44														ļ	ļ			
20.42 - 20.921	21625	0.30	1	.5												<u> </u>	ļ			·
2072 - 26.51	LASTGRO	5.79													 	<u> </u>				
26.51 - 29.56	21626	2.97	2	·i												ļ	 		ļ	
7a.56 - 2a.871	24027	10-31	j	-1	·									-		<u> </u>			ļ	
29.87-30.19	21628	0-30	- 1	-1								-				<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
29.67 - 30.17 30.17 - 30.93 30.93 - 31.70	21629	0.76	1	. 1										ļ	ļ	ļ		ļ	!	
30-93 - 3/.70	20st Care	0.77												ļ		ļ			<u> </u>	
31.70 - 33.37	21630	1.67	<i>a</i>	-1												ļ	ļ			
																ļ			ļ	
•																			 	<u> </u>
HOLE LOST IN	CAUTZ															ļ	ļ			·
																	1			
												_				ļ	ļ.———			
						· · · · · · · · · · · · · · · · · · ·										ļ	 			
																 			<u> </u>	
			,	ļ												-	ļ			
				 												-		ļ <u></u> -		
																 	 		 	
																	 			· · · · · · · · · · · · · · · · · · ·
						ļ <u> </u>													<u> </u>	
	-			ļ		ļ											 			
-				 									<u> </u>				 			
									i											· · · · · · · · · · · · · · · · · · ·
				 	,							l		Ì			1			
	 					· · · · · · · · · · · · · · · · · · ·			-							 	 			
				·		·		 									1		 	
						 										 				
			1.		<u> </u>	 	l						1						<u> </u>	
				1			 						 				 	t		
							 										1		1	
		, .			<u> </u>							·					 		†	
	-		 	 			-	 					———	1			1		1	



Property OX OPTION	Project No/.3.3	Depth 32.61	Date Began Joly 30/89
Hole No. OXE - 2 Co	ord. 145	. Horizontal Length 18	Date Gompleted July 31/89
Claim No. OX EAST	23/3/E	Core Size	Drilled By VAN ALPHAN EXPL. SER
		, • -	

	Grid No. Angle & Direction 55° West Elevation 1372. 6 Logged By P. J WIDTH X ASSAY AVERAGES																			
1									X ASSAY	WIDTH			,	Zn.	Cu.	Ag.	Au.	WIDTH	NUMBER	INTERVAL
		Zn.	· Cu.	Ag.	Au.	WIDTH							, !	411.	Cu.	Ag.	Au.	WIDIN	NOMBER	METRES
İ															*	.1	3	307	20587	21 - 11.28 $8 - 14.32$ $32 - 20.42$ $43 - 23.47$ $47 - 26.51$ $51 - 29.56$ $56 - 32.61$
																. i	1	3.04	20588	8 - 14.32
																.6	1	3.05	20589	1737
																.6 .2	1	3.05	2590	37 - 20.42
					ļ											٠.۷)	205	91	41 - 23.47
																.8	1	304	92	47-26.51
L																·Z	1	3.05	93	51- 20 56
i																.2	3	3-05	2,594	50-32
i																		2.0.5	2057/	36 30.01
																	100	6	5.00	SUE LUST
																	4012 -		DUX.	JUE XOST
																	<u> </u>			
											-		,							·
ĺ						-						 	ļ!	 						
												ļ								
													J []]						· · · · · · · · · · · · · · · · · · ·	
1		<u> </u>											 			<u> </u>				
<u> </u>		 													ļ	ļJ			<u> </u>	
i										<u> </u>			 !			<u></u>				
		ļ									<u> </u>		ļ [!]			ļ!				
	<u>.</u>	ļ!											<u> </u>	اـــــــــــــــــــــــــــــــــــــ	ļ	ļ				
 																ļ'			·	
ļ		ļ!														l'				
ļ													L	ļ	<u> </u>	<u>. </u>				
		ļ									<u> </u>									
ļ <u></u>		 			ļ []]								<u> </u>			<u> </u>				
ļ					<u> </u>															
					ļ					<u></u>			<u> </u>							
																		-,		
														[- i - i - i - i - i - i - i - i - i - i	[
- 										1										
											l -				ļ					
				<u> </u>	·					 				 '	<u> </u>	 				
										1	1	 			 '				<u> </u>	

	GRANGES EX	PLORATION	ON LTD.
(1)	GRANGES EX DIAMOND	DRILL	RECORD

Property OX OPTION	Project No 1.3.3 Depth	Date Began July 31/Eq
	Co ord. 13.505 (APPEX) Horizontal Length	
Claim No. OX TEAST	2275 E (KAPRX) Core Size	Drilled By

MUD SAMPA	ノアぐ	•				Grie	d No 📈	U.E.W.			Angle & Dire	ection		Elevatio	n . 1.3.	67 M	? Lo	gged By	PJI	Done
											X ASSAY						AGES			
INTERVAL METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.								WIDTH	Au.	Ag.	Cu.	Zn.		
																				
· · · · · · · · · · · · · · · · · · ·	21631	· .	77	•/	, ,	٠			IKEN.	STAIN	1/2 1/0	0								
	21631	– 1	28	1.3		· — [BIA	CK 12	100									
			1.6																	
	,																			
	 																			
	ļ																,			
		-																		
														-						
															-					
													·							
			<u> </u>		ļ															
					ļ. <u>. </u>															
		-										-								
· · · · · · · · · · · · · · · · · · ·	<u> </u>			<u> </u>						<u>_</u> _										-#t
					 															
		<u> </u>		·																
				7.																
			-																	
		,								ļ								 		
							 			ļ							ļ	ļ		
		1	1	I	i	į i	I .	l	i	1 .	i		ì		l .		i	l	1	

GRANGES EXPLORATION LTD. Hole No. OXTE - 1 Co ord 14 5 Horizontal Length 1/0 Date Completed by United By	IN DI PU	ELON SEC
INTERVAL METRES DESCRIPTION DESCRIPTION DESCRIPTION SAMPLE RECORD Au Ag G/7 G/7	Cu %	Zn %

INTERVAL	DESCRIPTION	SAMPLE RECORD				Ag		Zn	
METRES	DESCRIPTION	FROM	TO	SAMPLE	WIDTH	G/T	G/T	%	%
<u>0 – 8.8 _ </u>	CASING								
				ļ					ļ
8.8 - 15.6	MAJOR SHEAR AND FAULT ZONE - MINERACITED						ļ	ļ	
	FRASMENTAL LO BRECCIATED RHYOLITE WITH SECTIONS		<u></u>				}		
	Coutaine 10-15% Protes.								
	SECTION Reduced to DARK GREY GOOGE 2nd PYRITE (10-15!)								
	SLUDGE Collected From 5.79 to 8.8 has considerable								
	Pyrite in a dark grey to black matrix								
	8.8-9.14 Minoralized Polples 5% Prail								
	8.8-9.14 LANDERS OF POLICE ST. Pra.L. 9.14-9.60 Very Strangly Sheared Rhyololo breccio -5-10% Pyrib 9.60-6.36 Very badly Hroken Brocca & Pobbles 10.36-11-88 Lost Colae								
	960 - 6.36 Very badly Broken Brecca & Pobbles					ļ'			l
	10.36- 11-88 Lost Colao							ļ	
	11:88 - 13.41 way badly broken Cre - Coumbly					 			
	dissaminated Pyrite 5-10%					J			
<u> </u>	13.41-13.71 MINERALIZED FAULT Gouge - MUD - 10-15%								
	13.71- 14.93 Lost Core.								
	14.93-15.63 Norm Stravely Sheared Rhyolite Bressia - Clay								1
	14.93-15.63 Vary straugly sheared Rhyol to Brescia - Clay				-				
	TALCY.								
						ļ ¹			
15.63 -20.72	STRUNGLY SHEARED RHYOLITE BRECCIA - AGGLOMERATE-	Bami	3						
	Desaminated Pyrule 0-2/00 USV2lly Desacrated with Blued Feldipar phanceyst								
	John door (regments (unidentified)							ļ	
	Dissaminated Pyrite 0-2/00 USUZULY Zisaciated with								
	Blued Feldipan Phanceyst								<u> </u>
2-72 2101	<u> </u>]	<u> </u>	l
20.10 - 01-97	DARK GREJELJENY FUE GRANED FRAGMENTING		<u>.</u>						
/	True to lage Teldspar allered (to coloite) ?? Mercoyet.								
21.94-27.43	RHYDLITE LAPPILL TUFF (Bedded TUFF).								
	Feldspar Phonocoyst Dleved to Kralinde. Taxes Prale				· · · · · · · · · · · · · · · · · · ·				
	-	L	L	L			l	<u> </u>	



Property $O \times OPT(O \times Project No. 13.3]$ Depth Date Began

Hole No. $O \times F - I$ Co ord Horizontal Length Date Completed

Claim No. $O \times F = AST$ Core Size Drilled By

Page $2 \in G$ Grid No. Angle & Grid Direction Elevation Logged By

<u>IN</u> TERVAL	DECODIDEIONI	SAMPLE RECORD		E RECORD		Au	Ag	Cu	Zn
/METRES	DESCRIPTION	FROM	TO	SAMPLE	WIDTH	G/T	G/T	%	%
27.43-28.95	PASSES by GRADATION to FINE GRANED RHYOLITE TOFF								1
	TRACE PYRITE					77 441			#
18.95 - 31.39	DARK GREY - BLACK FRAGMENTAL (As described above).								1
31.39 - 3200	RHYOLITIC LAPILLI TOFF (Bodded TOFE) to CRYSTAL TUFF								#
	Feldspar Phenocryst Should to Karlinte TRACE PHRILE CORE L @ Gantact (3139) = 35° Cont L @ 31.7 = 35° BOTH CONTERTS Voly Sharp				·				1
	Cou Le 31.7 = 35°								1
32.00 - 45.41	DARKGREY - BLACK FRAGMENTAL								
	39.93-40.54 grey Examendal Tuff. (Bedled Tuff.) with lought green Clased mineral - Frehrike ??. Control = 30°								
	CORTE L= 30°								
15.41-46.63	*SILICZOUS (RHYOLITE) LAPILLI TUFF (Bedded TUFF).							·	
	TRACE PYRILE CORE L = 33°								
1663-50.44	BIACE COLLED FRAGMENTAL		· · · · · · · · · · · · · · · · · · ·			,			+-
	48-25-48.55 BOFF Colored RHYDUTEL LAPILLI TOFF		-						
	Feldspain al level to Kastinite. Trace Perito.								1
0.44-51.51	SHEARED, SILICEOUS 22 ALTERED RHYOUTE TOFF								1
	SICICOLS Fragments, toldepar alled to Kantinte.		!						
	du tseminaled Pyrite 2-3% plus a down gley -								
	de seminated Pyrite 2-3% plus a dave grey -		i 						<u> </u>
7.51-52.27	DARU GREY - BLACK TERAGMENTAL								-
									+



Property OX OPTION Project No. 133 Depth Date Began Hole No. $\bigcirc \times = -1$ Co ord. Horizontal Length Date Completed. Claim No. O X TEAST Core Size Drilled By

INTERVAL	DEGODICTION		SAMPLE	ERECORD		Au	Aa	Cu	Zr
METRES	DESCRIPTION	FROM	TO	SAMPLE	WIDTH	G/T	Ag G/T	%	%
52.27 - 53.76	SILICEOUS FRAGMENTAL WEF						<u> </u>		<u> </u>
	Sheared and Altered. Foldspais all alked to Kachuite.								
	TOLCOSE								1
	Dessam noted Proce 2-3% with durk gray-black mineral								<u> </u>
53.76 - 60.65	l								
	Triegular Pyrite Stringers - 57.30 - 57.33 Core Duglie = 15°								
20.65-69.64	Marcon Colored Silictions FragmenTAL-BRIECLIA (BUMB)								
,	Homadile Stains & estringers. Trasce to 2% Perit.								
9.64-70.41	DARK GREY - BLACK TERAGMENTAL								-
70.41 - 72.69	SILICEOUS PHYOLITIC BEDDED TOFF								
	Discominated Printe 1-3% Cragments many light Colored Feldspan altered to Kashinto	·							
12.69 - 74-83	SILICEOUS Beddod (RYSTAL TOFF TORSE to 2% PYKID.								
	Siliceous, Five graned, Laminated. While feldspar X-Isla. Ran much driggery black fragmont								<u> </u>
74.83-77.26								·	
77.26-78.33	BLACK COARGEN TENDENTAL								
	Memorous Garse Fragmands. Feldspain? allered to larling? - Cos Cite? - take Prair.								
		-							



Property.	DX OPTION	Project No. 133	Depth	Date Began
Hole No.	0×=-1	Co ord	Horizontal Length	Date Completed
Claim No.	OX TEAST		Core Size	Drilled By

W.T.C.D.(.)		1	SAMPLE	RECORD		Au	Ag	Cu	Zr
INTERVAL METRES	DESCRIPTION DESCRIPTION	FROM	TO	SAMPLE	WIDTH	G/T	G/т	%	%
18.33-80.62	RHYOLITIC LAPILLI TUFF								
	later Dight to bull with some marger palered sections.								
	Breatable at Part Contact Buth contacts very sharp.								
8321 B321	FRAGMENTAL & BRECGATED RHYOLITE TRAY to 5% PYRIL.								
3.21-91.89	Very fine brained Light to Buff Colored PHYDUTE MASSIVE. THAN PERUL.								
	tore of a constant								
	Feldspain altered to Kachente, Phonocaust Namerous Color Machinte, Phonocaust Namerous Congments un te light culoud! predominating								
4.18 - 112.47	LIGHT GATETY FIRSHMENTAL -GRECKER KUYNUTER								
	Light green Cular may be due to alteration as folds pairs to								
	9930-98.81 Bull-acomy Colored Checker 99.31-100.18 11-11 11 11								
2007	104-24-112.47 Baff-light marcon- liter Green								
12.47-118.26	By C Calado Mace PYLID.								
	Lessont with the light belated predominally								
	116. DE-116.74 Very fine grand Allerd Rhyelite. Telesphen alled to Maderile								
		· ·							
9.26-120.64	BADLY BROKEN FRAGMENTAL ROYALITE	-	 	1			 	 	1



	Property OX OPTION Project No. 133	Depth	Date Began
D.	Hole No. $\bigcirc \times \bigcirc = -1$ Co ord.	Horizontal Length	Date Completed
	Claim No. OX TEAST	Core Size	Drilled By
Page 5 of 6	Grid No Angle & Grid Direction	Elevation	Logged By

ANOMA	LY: Page 5 of G Grid No. Angle & Grid Direction					Logge	ea By		
INTERVAL	DESCRIPTION			RECORD		Au G/T	Ag G/T	Cu	Zn
/METRES		FROM	TO	SAMPLE	WIDTH	G/I	G/1	76	%
120.64-123.14	BUFF - LIGHT GREEN COLUMED FRAGMENTAL RHYOLITE				-				
23.14-124.05	SOUDY & DEPPERY TEXTURED LAMINATED POCK								
	SANDY & PEPPERY TEXTURED LAMINATED ROCK CENTUR LIGHT AND daru bands POSSIBL, an alked Sandstone??? on Colked Rhymule???								
	Coul 10"-20" to 12" Tasce Praile.								
24.65-136.70	DAKK GREY T-RAGMENTAL TUFF								
36.70 -137.95	RHOLITIC CRYSTAL TOFF THOSE PYRILE								
37-95-139.75	DARK GREY TERAGMENTAL								
	Phonocourt are alleed feldipais and wo calcul.								
39.75-143.41	PHYDUTU SAPILLY TUEF to CRYSTAL TUFF								
	Conte 1 = 25°								
143.41-144.47	DERY SILICEOUS CHERTY (RYSTAL TOFF Very Fire Grand. COREL = 125°, tresu Ryale.								
144.47-146-61	GREY LO DARK GREY FRAGMENTAL								
	DACITIE TUFF								
46.61-146-91	PHYOLITIC LAPILLI TUFF								
	1-29 Pyrile - disseminated and as Stringers.								
11 61 11717									
	DANK GREY FRAGMENTAL								-
4767-148.4	DARK GREY BRECCIA - AKJEMERN TE - BOMB.								<u> </u>
	Tragments Cortain 4. 1 pyrite. Rugourus								
				1		Ì]	1	1

	GRANGES EX	PLORATI	ON LTD.
0	GRANGES EX DIAMOND	DRILL	LOG

ANOMALY:

Property $O \times OPTION$ Project No. 133 Depth 154-53 Date Began $Tolly \partial E$, /Eq1. Hole No. $O \times E - I$ Co ord. 145 Horizontal Length 1/0 Date Completed $Tolly \partial A / Eq$ 1. Claim No. $O \times Te A \times T$ Drilled By VAJALANEN ENPL. & SeavPage $6 \circ E G$ Grid No. Angle & Grid Direction 45° East Elevation 1371.6 Logged By $Q \cdot T$ Duberous.

INTERVAL			SAMPLE	RECORD		Au	Ag	Cu	Zn
METRES	DESCRIPTION	FROM	TO	SAMPLE	WIDTH	G/T	G/T	%	%
148.47-142.83	FINE GRAINED GREY DACITE TOFF								
	· · · · · · · · · · · · · · · · · · ·				<u> </u>		 		ļ
	TORE ANGLE = 18°			 			 		ļ
€.0. //.				 		 	 		<u> </u>
C.O. H.	HOLF STORPED. CASING PULLED.					 	 		<u> </u>
	1667 STOCKED. (24) 126 1-000 100.								
	SUMMARY & COMMENTS:							ļ	
	This this was STOPPED Short OF its objectine form I P. Torget to the Forms him when it become approved the dip of the Forms him was fast instead or westerly. The I.P. Target may in mount have been lauched or it would have required too deep 2 hale								
	I O Torget to the face) when it become approut			 	 	 	 		
	the dip of the Forms ton was tast instead of					 	 		
	western the Life Target may show have		,	 			†		
	don Alechor or It want have veguette								
	The HOLE WAS COLLARED INTO the Man I.R.		 	<u> </u>			<u> </u>	 	<u> </u>
	AHOMALY from 8.8-15-6 motion Caisisting CF						 		
	Alonay from 8.8-15.6 motes- Casisting CF 2 Maying Stear and Foult Gouge - mineralized						 		
	CUITA PARA		·	 				 	
<u> </u>	THE 111 E E M ASSEMBLY 18 Well be Decided								
	to have been carsed by this same Shear. IF								
	So mEMES								
	30 m 15 10 5			ļ			<u> </u>		
			! 			 	ļ		
	THE Surce OF the Anstruc Beachem		<u> </u>	 			 	 	
	Soil Enomaly man be due to avisouspyrite assessed with pyhote which was not to whose or vecaginged by the writer.					 	}		
	assessed with pyrite textel was Not.					-			
	Observed to Vergrund by the winter								
	The Surce OF the Ziec Dramoly (801 P.P.M). is								
	Net Kingwe.	-		<u> </u>					
			'	ļ		 	 	 	
				 		_	 	 	
				 		 	 		
		 -		1			 		



Property OX OPTION	Project No 1.3.3	Depth 154.53	Date Began JULY 28/89
Hole No. OXE -1	Co ord	Horizontal Length 110	Date Completed July 30/89
Claim No. O. X. ISAST	2299E	Core Size V. Q.	Drilled By VAN ALPHEN EXPL. SER.
			Langed By P. T. Declar

			Page	10t	St 2 Grid No. Now 62.0. Angle & Direction 45 Est. Elevation 1371.6 m Logged By P.J. Doc) oday					
	1	1	Υ ΄		1					WIDTH	X ASSAY					AVER	RAGES			
INTERVAL METRES	NUMBER	WIDTH	Au.	Ag. PPm	Cu.	Zn.								WIDTH	Au.	Ag.	Cu.	Zn.		
0-8.84	CASILG															ļ	<u> </u>			
8.84- 9.45	21592	0-61	8	.5 .3										L	ļ					
9.45 - 10.36	21593	6.91	4	٠3											<u> </u>					
10.36 - 11.88	LastCare	1.52						 	ļ						<u> </u>		 	ļ		
11.88- 13.10	21594	1.22	4	41	<u> </u>			 							<u> </u>	ļ				
13.10 - 13.71	21595	061	2	.1				ļ	ļ							<u> </u>	_			ļ.————
13.71 - 14.93	16st Core	1.22					<u> </u>	ļ	<u> </u>						ļ			ļ		
14.93 - 15.63			3				L	ļ	<u> </u>									<u> </u>		
15.63 - 16.40			3					<u> </u>	<u> </u>					<u> </u>	<u> </u>	 -		ļ		
16.46- 17.98	21598	1.50	1	.1				 	_								ļ	ļ		
17-98-2103	21599	3.65	2	.1				 		<u> </u>					 	 		}		ļ
91-03- 23.62	was te	2.59					ļ	 	<u> </u>						ļ	ļ	 			
13362-24.69	21600	1.07	4	-1											} -	 	ļ	ļ		
12469- 25.60	21601	0-91	5					 	<u> </u>								 			
2560 - 27.12	(002	1.50	2				<u> </u>		 						 	 	<u> </u>	 		
27-12 - 28-95	603	1-83	1	.1			<u> </u>									ļ	 			
128-95- 50-44	VIRSTR.	21.49							ļ								 			
51.44-51-51	21604	1.07	2	.1			L	ļ	ļ							ļ <u>.</u>	 	ļ.,		
157.51-52.27	marke	1.760	1				 								<u> </u>	} -	 			<u> </u>
52-27- 53.76	21665	1.49	2	-/	<u> </u>			↓	<u> </u>						ļ	ļ	<u> </u>	ļ		
53.76-60.65	waste	6-29	<u> </u>				 		<u> </u>							}		 		
(a1-65- 63-70	21006	13.05	2	-/			ļ	<u> </u>	ļ	ļ							<u> </u>			·
63.70- (do.75	2407	3-05	1	./			<u> </u>	 	<u> </u>						ļ		 -			
63.70- (do.75 (d.75-69.64	21608	2.89	/	./		<u> </u>	<u> </u>		 		ļ					ļ	 		 	
69.64-70-34	waste	0.70				<u> </u>	<u> </u>	<u> </u>	ļ	ļ			·			<u> </u>	 			
70-34-70-95	21609	0.61	1	.1			<u> </u>				<u> </u>					ļ				
70.95 - 72.54	2610	1.59	2	11	<u> </u>	ļ	L		<u> </u>									ļ		
72.54-74.61	21011	2.07	3	.1		 	 	ļ <u> </u>	<u> </u>		ļ	<u> </u>						-		
74-61 - 75-89	21612	1-28	2	٠٧		Ļ	ļ	ļ	<u> </u>			ļ		<u> </u>			ļ			
75.89 - 79.20			3_	.1		<u> </u>		<u> </u>	ļ							_		ļ		
77.20-78.33	21614	1.13		-1		ļ	├	 	ļ	ļ		ļ		<u> </u>					<u> </u>	
78.33-80.46	21615	2.13	2	-1		ļ	<u> </u>	 	 	 	ļ			_	 	ļ	 		<u> </u>	
80.46-81.99	21616	1.53		1		ļ	 	 	 		 	 	ļ		 	 	 	ļ	<u> </u>	
21.99-83.66	21/2/17	1.07	1	.1		ļ						 	ļ	 	 	ļ	 	 	ļ	
83-66-85-64	2KD 18	1.98	1	-3	L		 		ļ		ļ.——	 	ļ	 				 		
85.04-89.30	waste.	426		<u> </u>		 	ļ	!	<u> </u>	 		ļ	ļ	 -	ļ	ļ	 	 	ļ	
84.30-91.89				·i		ļ	<u> </u>	ļ	ļ								 	<u> </u>		
91.89-95.70	waste	3.81	<u> </u>		<u> </u>	ļ	<u> </u>			 	ļ				<u> </u>		 	 		
95-70 - 96.16	21620	0.40	1	-1		ļ		_			 	ļ	<u> </u>	 -		<u> </u>	 	<u> </u>	 	
<u> </u>	<u> </u>		1	L		1	1	1	<u></u>	<u></u>	L	l	<u> </u>	J	L	i	L	l	j	<u></u>



Property OX OPTION	Project No. 103	Depth	Date Began
Hole No. $\bigcirc \times \stackrel{\sqsubseteq}{} - 1$	Co ord	Horizontal Length	Date Completed
Claim No. OX EAST		Core Size	Drilled By
		5	1 10

						Gri	0 INO				Angle & Dil	CCHOII		Lievatio	,,,,,,,,,			ggca by		
4.1750.44	Γ					· · · · · ·		ļ		WIDTH	X ASSAY					AVEF	RAGES			
INTERVAL METRES	NUMBER		i i	Ag.	Cu.	Zn.								WIDTH	Au.	Ag.	Cu.	Zn.		
96.16-146.61 146.61-146-91 146.91-147.67 147.67-148.43 148.43-154.53	Waste	50.45																	ļ	
144 (-1- 144 01	21/221	0.30	1	.4																
164-01-167-107	uacie	0.70																		
1/19/7 1/19/12	211-27	10.70	3	.2							1									
141612-154-53	1.3510	1-10																		
140.45-131-33	Cosse	0.10		 																
£.o.#.																				
																	}			
				_																
				 	_															
-				 																
				 											1					
			l	 	 	l														
	 			 	 															
	 			·																
	 		_	 	ļ	· -														
		-			l		· -													
	 																			
	 		-	·	l									1						
			-			 							1			İ				
	 		ļ			 									1					
	 			-	-								1							
	 	 			 	<u> </u>										<u> </u>				
	<u> </u>	<u> </u>		 	 								<u> </u>							
	 		-	 	1]				<u> </u>	 		1		1					
		 	-	 	 								1							
	ļ	<u> </u>		 	-			<u> </u>			 					l	1			
		- ·		 	 						<u> </u>					<u> </u>				
		 		 	 		-	ļ								<u> </u>			ļ	
	· · · · · · ·		-	 	 			<u> </u>												
	 		 	 	 	 	-	<u> </u>												
	<u> </u>		 	 	 	 		 	 	l	 	 	1	1	1	<u> </u>			†	
			 	 	1		 					1	 		†				t	
 	 		 	 	 	_	 			 		 	 	1	 	l	 		 	
			 	1	 	 	 		 	 		 	-	1	1	 	 			
	 	-		}	 		1				 			1	 				-	
	 		 	 	 	 	 			 	 	 	 	1	 	 	1			
			 	 	 -	 	 		 			 	 	 	 	 			<u> </u>	-
1	1		1	1	1		1	H		1	1		1		1	1	1	1	1	1)



Property OX OPTION	Project No 1.3.3	Depth 154.53	Date Began July 28/89
Hole No. OXE - 1	. Co ord. 145	Horizontal Length //O	Date Completed July 30/89
Claim No. O. F. 15.7	2299 E	Core Size	Drilled By VAN ALPHAN ENDE STA
	1150 8 150	- 127/1 m	D. J. DEJEAN

MITSPAC. NUMBER WIDTH AL Ag CU Zn Zn WIDTH AL Ag CU Zn WI	SLUDGES		·		1	<u></u>	Gri	d NoA.	ew				ection 7.	جهر جب	Elevation	on/		AGES	gged By . F		
5.79 - 884 20578 3.05 2 .3 8.84 - 11.89 20579 3.04 9 .8 11.86 - 14.93 20580 3.05 3 .1 14.93 - 17.98 8/ 3.05 4 .8 17.98 - 21.03 80 3.05 3 .1 21.03 - 24.08 83 3.05 5 .1 24.08 - 27.10 84 3.04 4 .3 27.10 - 30.17 85 3.05 3 .1 30.17 - 33.20 20586 3.05 1 .0 33.22 - 154.53 16.5 utp 21.11	INTERVAL T/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.				WIDITI	AASAI	·	Γ	WIDTH	Au.	r — —		Zn.		
				 	 										}						
	5.79 - 8.84	20578	3.05	2	.3																
	9.64 - 11.88	20579	204	9	3.																
	11.88 - 14.93	20580	3.05	3	.1																
	14.93 - 17.98	8/	3.05	4	. 8																
	17.98- 21.03	€.∂	3.05	3	. (ļ				
	21.03- 24.08	83	3-05	5	-1												ļ	<u> </u>			
	24.08 - 27.12	84	3.04	<u> </u>	-3												ļ	}			
	27.12 - 30.17	8.5	3.65	3	.1										ļi	 		_			
	30.17 - 33,22	205 86	3.05		1.2										ļi		 				
	33.22 - 154.53	No Sivigo	121-11		ļ												 				
		ļ	ļ	ļ	 				<u> </u>		i							 			
	<u></u>	 		 -	 														<u> </u>		
	***				 -	 											-				
					 																
																		i			
		<u> </u>			 																
					-																
					<u> </u>																
								<u> </u>							<u> </u>						
					<u> </u>											ļ					
																		ļ			
					<u> </u>	ļ		ļ		<u> </u>				 	ļ	ļ			ļ		
					ļ			ļ		ļ							<u> </u>			-	
		ļ <u>.</u>	 	 	 	<u> </u>	 	 	 	 	 	 		 		 -	<u> </u>				
			 		-		 	 -			 					 				 	
	<u> </u>			-	-		ļ	 	 	 		 		<u> </u>		 	 				
			ļ		-	 	 	 	 	 		 		 							
		 		 	 	 	 	 	 	 		 		 		 					
 		 				 				 						l	l	T			
		 	 	 			 	 	 	 		<u> </u>		 	1	<u> </u>		1			
		 		 	 	-	·	1		†		l		1							
				 	1	 	 	1					<u> </u>								
		 	<u> </u>	1	1						1										
		 	<u> </u>				1														



Property OX OPTION Project No 133 Depth 44.80 Date Began July 18/89 Hole No. OX -48 Colord. 1838 W. Horizontal Length. 17.0 Date Completed 50.04 19/89

Claim No. 0x-5 9183.5 E Core Size N.Q. Drilled By VANALPHIEN EXPL. STERV

INTERVAL METRES	MAJOR GEOLOGICAL CODE	Page 1 OF 1 Grid No. Angle & Grid Direction 67° 0.84° Elevation 5ame 35 OF	INTERVAL FEET / METRES	MINOR GEOLOGICA CODE
0 - 3.66		CASING		
3.66 - 5.18		STAINED RHYOLITE FELDSPAR PURPHYRY		
5.18 - 6-25		MUNICALIZED SHEDRED RHYOLITE FELDSOM PORPHYRY		
		Staned, S% Perile, Briken,		
625 - 35.51		RHYOLITE FELDSPAR PORPHYRY COLOR WHITY to CREAMY, TAKE PYRAL		
35.51 -36.88		BRECCATED RISYULITE		
		36.57-36:88 BLACK RHYOLITE (ALTERED)		
36-8E - 38-S5		DAMASCUS SHEAR AND FAULT TONE		
		Weakly moneralized with disseminated Praite. 1-2% STRONG by SHESARD and BRESSIATED STECTIONS WITH FAULT GOUGE.		
38.55- 44.80		WHITE IN CREAMY GLERED RHYOLITE Sheared and Spricely		
E-0-H-		42.64 - 42.67 T-AUCT TOWN		
		CASING PULLED.		
		HIGHLITES DAMASCUS SHIEAR INTERSTECTION FROM 3688-3855		
		BUT COUTAINED HE MASSIVE SULPHIDES. ILO VALUES ARE		
		FLAPIECTIEN.		



Property OX OPTION	Project No / 3.3	Depth 44.80	Date Began JULY 18/89
Hole No. OX -48	. Co ord. 1838. N	Horizontal Length 17.0	Date Completed July 19/89
Claim No. O X - C	9045E	Core Size V.Q.	Drilled By VAN ALPHEN EXPL. SEC
Grid No. DAMASCUS ZONE	Angle & Direction 67° 084°	. Elevation Sams, as 0X-47	Logged By P. J. D. Jeax

				r	T		r	<u> </u>		As		***	X ASSAY			1			AGES			
	INTE	ERVAL METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	Ph	PPM	Au		Cu	てん	Pb	WIDTH	Au.	Ag.	Cu.	Zn.	Pb	
	0	3.66	CASING	3.66	PPE	1777	7,777	1 1 11 11	1177	FFA		- 7										
	3.66-	5.18	waste	1.57																		
	F10-	1-25	71536	107	14	3.6	1063	77/	145	221					-					-	-	
	6.25 -	36.88	waste	30.63													grams	grams	%	%	%	
_	36-86-	36.88	21537	0.92	104	27.6	193	18,975	2056	10,698	95.7	25.4	דידו	17,457	1891	1		//		1 /1	013	24 00 00 5
_	37.80-	- 38.56	21538	0.76	270	47.4	263	9.765	3437	15,970	205.2	36.0	200_	7421	2619	1.66 (0.7 ii)	0.179	36.54	0.04	1,4	0.13	36.88-38.50
	38-56-	- 44.80	waste	6.24	 			 			(300.9)	36.54	377)	14,818)	(4505)	(O. 14w)	Q.00>02	1. 1.000	///			
	E.O.	//	<u> </u>		ļ				-		0.179	36.54	224	14,808	131							
	1=.0.	4.							!		0,114						<u> </u>					
																	1					
					 																	
			†																			
					1																	
		į																			.	
																		<u> </u>	ļ		ļ	
																	-	ļ				
																					ļ	<u> </u>
			<u> </u>													 	<u> </u>				<u> </u>	
	-					ļ															<u> </u>	
	-																<u> </u>				-	
									ļ						ļ			ļ			 	
			<u> </u>		 	 	<u> </u>	ļ	 	 					<u> </u>		 				<u> </u>	
							 	 	 									 -			 	
						 			 												 	
									<u> </u>		 					<u> </u>						
				 	 	 	 	 	1					l				 				
					1																	
									1													
									<u> </u>						<u></u>							
				<u> </u>			 		ļ]						ļ	ļ				 	
						ļ		 	 													
			ļ	<u> </u>		 			ļ						ļ			1			<u> </u>	
					 	ļ		 	_	1	ļ	 			 			ļ	 		 	
	· · · · · · · · · · · · · · · · · · ·		<u> </u>	L	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1		<u> </u>	l	L	l	<u> </u>	I	l		L	<u> </u>	<u> </u>



Property OX OPTION	Project No 1.3.3	Depth 44.80	Date Began July 18 / 84
Hole No. $OX - 48$	Co ord. 1838. N	Horizontal Length 17-0	Date Completed JULY 19/89
Claim No. OX - C	904.5 E	Core Size	Drilled By VAN ALPHEN EXPL. Siz
Grid No DAMASCUS TOUE	Angle & Direction 67° 054°	Elevation Some as CX-47	Logged By P.J. D. Jean

SLODE.)							 WIDTH:	X ASSAY					AVER	AGES		
INTERVAL METRES	NUMBER		Au.	Ag.	Cu.	Zn.						WIDTH	Au.	Ag.	Cu.	Zn.	
3.66 - 8.23 8.23 - 11.28 11.28 - 14.33 14.33 - 17.37 17.37 - 20.42 20.42 - 23.47 23.47 - 26.52 26.52 - 29.57 29.57 - 38.71 38.71 - 44.80	2006																
8.23-11.78	20577	3.05															
11 28 - 14,33	20528	3.05						_									
14.33 - 17.37	7009	304															
1237 - 20.47	70(20	3.05															
20 47 - 23.47	10031	700		-													
73.47-76.52	20537	3.05															
7-6-57-29-57	205-53	3.05															 ****
29.57 - 38.71	70534	9.14						 		·							
79.71- 44.80	20535	6.1															
300 11 1-1107	2037																
E-0-H.																	
: +																	
•																	
				-													
									•								
							,										
									-								
																	-
								 		· · · · · · · · · · · · · · · · · · ·							
			-								1 —						· · · · · · · · · · · · · · · · · · ·
																l	
							 										
				l								. ,,,,			·		
	1	i		l	L	L	 ā <u>.</u>	 	L			r			L	I	 <u> </u>



Property OX OPTION Project No. 133 Depth 66.14 Date Began July 19/89

Hole No. OX - 49 Co ord 1704 N Horizontal Length 20.8 Date Completed July 20/89

DIAMOND DRILL LOG

Claim No. OX - C 9195.5 E Core Size N. Q. Drilled By Van Alene Leya: & Sur
ZONE: Damascus Page 1 0 F 2 Grid No. Angle & Grid Direction 72° 099° Elevation 1 metre bulan 0X-37 Logged By P. J. De Joanne

DAMASCUS	Page 1.07-2 Grid No. Aligie & Grid Direction 1/2 Covalidation		MINOR
MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET / METRES	GEOLOGICAL CODE
	·		
	Conserved, waveen sections unt green (chlusite?) clots and		
	@ 9.90 -0.40 cm Pyrite struger parallel to Core 15.20 m longh		
	BADIY BROKEN RUYGLITE (FELDSPAN) PURPHYRY 5 TROUGH SHEDRED		
	TRACE BYRIL		
	STROUGLY SUFFRED TONE (FAULT TONE)		
	Jections colored Discu que, to black. These Practo.		
	18.29-18.38 Sand (quartz)		
	18.38-18.74 RHYOUTE VEBBLES. 18.74-20.42 LOST COCE		
	20.42 - 20.60 BIACK MINISTELLE - CHESILLITE OK RHYULTU GOLF TOURS 20.60 - 25.39 2-5% Pyche Ligmente, Clots, broken Stringers.		
	28.04-28.22 SAND & Pebbles.		
	MUTALITED BRIECCIATION RHYOLITE		
	scallered Praite clots, cubes, clusters, x-tal, (1-5%)		
	i		
	1 <u>1</u>		
	medicing sived. — Mace Pylile		
	MAJOR GEOLOGICAL	DESCRIPTION DESCR	MAJOR GLOCOCCA COOK CHSING STOCK OF COLOR 3.35 LIGHTE TO BRUND GLOCET RHYCLETE FELDSPAR PORPHYRY THAT GENERAL WALLES SOCIAL MICH GENERAL COLORS CHYMOLE GLYNOCH BARLY GLOCET RHYLLES SOCIAL MICH GLOCAL STOCK BARLY GLOCET RHYLLES SOCIAL MICH GLOCAL STOCK BARLY GLOCET RHYLLES (FEDILAR) RICHARY TRANSPORT STRONGLY STRONGLY STRONGLY STRONGLY STRONG (FOURT CONE) USER'S TRANSPORT TONE (FOURT CONE) USER'S TRANSPORT CONE (FOURT CONE) 18 39-18 34 SAND (GLOCAL GLUCAL STRONGLY) 18 38-18 34 House Glocal Gray STRONG STRONGLY 18 34-18 34 SAND (GLOCAL GLUCAL STRONGLY) 20 42-20 162 CONE 20 42-20 162 GLOCAL GLUCAL STRONG STRONGLY 22 14 38-22 SAND & PHOLICAL MUSTANIER BRECCATED RHYOLITE TECHNIC PROBLES STRONGLY GLOCAL THAN CONSTRUCT CONES, X-121 (1-52) CALCARTANA LIGHTE TO COMMENT CONES THAN GRANGE RHYOLITE TECHNIC PROBLES STRICT THE SOCIAL STRONG CHIEFE THAN GRANGE RHYOLITE TECHNIC PROBLES STRICT THE SOCIAL STRONG RHYOLITE TECHNIC PROBLES STRICT THE SOCIAL STRONG RHYOLITE



Property .	DX OPTION	Project No 33	Depth	Date Began
Hole No.	07-49	Co ord	Horizontal Length	Date Completed
Claim No.			Core Size	Drilled By
Grid No		Angle & Grid Direction	Elevation	Logged By

INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE
47.85 - 49.59		SLIGHTLY SHEARED RHYDLITTE (FELDSPAN) PURPHYRY		
		Blokon, MACI PYRITE		
4959-50.08		DAMASCUS ONE ZONE - BLACK MASSIVE SULPHIDE - EALENA AND PYRITE, BRECUNTER		
50.0E-52.73		UTERY STRUCKY SWEARED TOUT (T-AULT) ALTERED RHYOLITE PORDHYRY. Stroughy fractived, Soft and Crumbly with time gauge. TRACE SULPHIDE - PURITE.		
		50.08 - 50.35 BLACK Gouge - encapous & Siciaeus - Kaslinged, 10% Praile 50.35 - 50.90 Very Strangly Albert Purphyry (Rhyolate) mitt Black (gauge) dambly cochicus. 2-5% Prade. 50.90 - 52.73 Very Strangly Sheated and badly brown - Very four Coul rechiery.		
5273- <i>588</i> 2		STRONGLY SHEARTED AND PLTIERTED RHYULITE PORPHYRY		
58.87 - 60.04		MODERATELY SHEEPIED RHYDLITE (FELDSPUL) PORPHYRY.		
63.76 - 66.14		SLIGHTLY WE STRONGLY SHEARED RHYDLITTE PORPHYRY		
TE-0-H-		HIGHLITES		
		DAMASCUS ORFE ZONFE TNTIENSTECTIEN FROM 49.59 40 50.08 METRES - CONSISTENCE OF BLACK MASSIVE SULPHIOE MATRIX OF PYRITE ON GALERA WITH SOME SPHALIFRETE.		
		HORIZUNTAL CUIDTES OF TUTIENSTECTION IS 0.45 METRES AND PLOTS ON STECTION 1702 NORTH 30 METRES BELOW 04-37		
		SIGNIFICANT VALUES ARE TEXPECTED.		



Property OX OPTION	Project No. 1.33	Depth 66.14	Date Began July 19/89
Hole No.	Co ord 1704 W	Horizontal Length 20-8	Date Completed July 20/89
Claim No. OX - C	9155 E	Core Size N. Q.	Drilled By VAN ALPHEN EXPL. SERI
Grid No DAMASCUS ZOUE	Angle & Direction 72° 099°	Elevation I M below UX 37	Logged By P. J. De Jean

ł	NITED (A)	· ·		ı					A5		WIDTH	X ASSAY					AVEF	RAGES	<u> </u>		
	INTERVAL METRES	NUMBER	WIDTH	Au.	Ag. PPm	Cu. PPm	Zn. PPM	Pb Ppm							WIDTH	Au.	Ag.	Cu.	Zn.	Pb	
Ì	0 - 3.66	CASING	3.66																		
I	3.66- 24.99	waste	21,33												<u> </u>		ļ		ļ		
I	3.66-24.99 24.99-25-39	21539	0.40	3	2.4	GFI	657		329					<u> </u>		ļ	ļ	ļ			
	25.39- 30.33	21540	4.99	ລ	0.3	121	100	17	204					ļ		ļ		ļ	 		
	30.33 - 31.85	was te	1.52											<u> </u>			.	ļ	ļ <u> </u>		
١	31.85 - 33.38	21541	1.53		a-3	65	113	19	43							 	ļ		90	40	
l	33-38 - 48.95	waste	1557											<u> </u>		grams	9+2ms	90	10	10	
l	48.95- 49.59	121542	0.64	9	3.6	119	504	300	893								0.01.1	 ;-	/ / /	1 7	10.50 5
ļ	49.59- 5008	43	0.49	830	296-1	1510	67,439	16,869	44,283						0.49	0.8209	296.19	0.01	6.8	1.7	49.59-50.0
	49.59 - 500E 50.08 - 50.35	44	0.17	53					3715						1 0. C. W.	0.0240	K 8.60	1)/_/	 		
	50.35 - 50.90	45	22.0	15	8.6	101	1194	561	917	<u> </u>							 	ļ	 		
	AD-90 - 5243	46	1.53	/	2.2	/०त्र	668	313	147								 		-		
l	52.43 - 66.14	waste	13.71											<u> </u>	}			 	<u> </u>		
	P . 11			-					<u> </u>						 	 					
	E.O.H.				 						<u> </u>					 					†
				-	-									<u> </u>	<u> </u>			 			
	· · · · · · · · · · · · · · · · · · ·			1	 											 			 	 	
ŀ				 							i				l			<u> </u>	 		
ŀ										 									 		
ŀ											 							 	1		
ŀ																1					
ŀ			-														<u> </u>				
ŀ				 	 																
ŀ																					
ŀ				 																	
				<u> </u>																	
			-																		
ŀ																					
ľ																					
ŀ																					
ľ																					
ĺ																					
ĺ																					
ĺ							~														
ĺ																					
ĺ					1			1			1	l	1			1	1		1	ł	



Property OX OPTION	Project No 133	Depth 66.14	Date Began July 19/89
Hole No. 0×-49	Co ord. 1704 N	Horizontal Length 20.8	Date Completed July 20/89
Claim No. 6×-C	9155 E	Core Size $\mathcal{N} \cdot \mathcal{Q}$.	Drilled By VAN ALPHEN EXPL
Grid No. DAMASCUS ZOUZ	Angle & Direction 73' 0 82'	Elevation Imeter below 01 37	Logged By P. J. Dolour

REFERNAL NAMERI WIDTH As. Ag. Cu Zn WIDTH Au. Ag. Cu Zn	SLUDGE			}	T	-		1				X ASSAY		<u> </u>	<u> </u>			AGES			
6.10 - 9.14	INTERVAL METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.								WIDTH	Au.	Ag.	Cu.	Zn		
6.16 - 9.14	3.66 -6-10	20536	2.44																		
12.19 - 15. 24 2054 3.05 3.05	6.10 - 9.14	20537	3.04																		
12.19 - 15. 24 2054 3.05 3.05	9.14-12.19	20538	3.05																		
S \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	12.19-15-24	20539	3.05																		
18.29 - 21.34 2054 3.05	15-24-18.29	20540	3.05																		
24.38 -7 7.43	18,79-21.34	20541	3.05		<u> </u>																
77, 43 - 29.57 20544 2.14 29.57 - 32.61 20545 3.04 32.61 - 38.71 20546 6.1 32.71 - 44.81 20547 6.1 44.81-50.90 20549 5.2 50.90 - 56.10 20549 5.2	21.34-24.38	20542	3.04		<u> </u>									ļ					<u></u>		
77, 43 - 29.57 20544 2.14 29.57 - 32.61 20545 3.04 32.61 - 38.71 20546 6.1 32.71 - 44.81 20547 6.1 44.81-50.90 20549 5.2 50.90 - 56.10 20549 5.2	24.38 -77.43	20543	3.05		ļ														ļ <u>-</u> -		
32.61 - 38.71 70546 6.1 38.71 - 44.81 20547 6.1 44.81 - 50.90 20549 5.2 50.90 - 56+10 20549 5.2	77.43 - 29.57	20544	2.14										**				}				
32.61 - 38.71 70546 6.1 38.71 - 44.81 20547 6.1 44.81 - 50.90 20549 5.2 50.90 - 56+10 20549 5.2	29.57 - 32.61	20545	3.04		<u> </u>										_		ļ	 			
50.90~56.10 20549 5.2	32.61 - 38.71	70546	16-1												 		 				
50.90~56.10 20549 5.2	38.71-44.81	20547	6.1		<u> </u>									 			ļ	<u> </u>	ļ		
	44.81-50.90	20548	6.09				_							 			 -				
	50.90-56-10	20549	17.3		<u> </u>									 	 		_	}			
					<u> </u>												 			·	
					<u> </u>						_							ļ			
			ļ	<u> </u>	 									 				_	<u> </u>		
					 												ļ 				
					<u> </u>									 							<u> </u>
			 		 					l				ļ			 				
					 		_														
				<u> </u>	├		·							 				}- 			
				 	 -			-							 						
				 	 	<u> </u>								 	 			 			
				 	┼																
			ļ	 	 									-	-						
			 		 																
				 	 	 			-					 				 			
			 	 										 				<u> </u>			
														 				l			
				 	 				· · · · · ·		-										
					<u> </u>									1				1			
			<u> </u>	 	1													1			· · · · · · · · · · · · · · · · · · ·
			 	 	 													1			
			 		<u> </u>	Ì				l											
						1				1								1			
										1								t			
			†		 	İ								-							
					1									T							



ZONE: DANTIACUS Page 1953 Grid No. Angle & Grid Direction 77° 0905 Elevation 1001 below 64-43 Logged By P. J. Dolona GEOLOGICAL INTERVAL DESCRIPTION FEET/METRES **GEOLOGICAL** CODE METRES CODE CASING 0-3.05 FINT GROWSER RHYSLITE - RHYDLITE PERDIYAY 3-05-13.41 Rugoliti Parpujay 12.41- 14.43 FRAGATIONE RHYDLITE (FELDSOM) (THEF?) 14.93- 21.94 Frigsames Albred to Kappinele - Carbinale. Abuda + Feldspar Phone Capt. 17.98-59.8 Charter & palin 11 Py P. H. (109.) Fargon 1 st by Breceived RHYOUTE with Feldsper Monicount 21.94 - 29 81 To propose stul to waterite - Carbonete @ 23.01 Py 1. 6 6/165 VERY COARSE GRAVED RHYDLITE BRECCIA - AGGRETANTE 1981-3566 Scallend Depile clubs & strugers (1-39) Loss Core 35.66-36.57 VERY DUA CON RECEIVERY - MUSTLY PEBBLES OF SMINNING 36.57-27.49 ALTERED CARY - SMOKE, RHYCLITE BRECCIA 37.49-40.84 Torce Oyele, Will, name fails going section

	GRANGES EX	PLORATION	ON LTD.
O	DIAMOND	DRILL	LOG

Property C	X OPTION	Project No	Depth	Date Began
Hole No C	X - 50	Co ord	Horizontal Length	Date Completed
Claim No			Core Size	Drilled By

ZONE:		Page 2 oF 3 Grid No. Angle & Grid Direction Elevation	Logged By	
INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE
40.84 - 46.33		ALTERED FRAGMENTA RHYOLITE PERPHYRITE		
		Tomall quen format - chlorite? Total Paris Processeus		
		Tonace Marcha, Processeus		
		very vancus quarts strugen.		
46.33 - 56.54		While to Butt Orland RHYOLIKE to RHYULIKE BRECCIA		
		@ 49.38 0.40 cm Pyrite Sphalerite Stringer @ 16° to Coro	- SAN AND AND AND AND AND AND AND AND AND A	
56.54-74.98		MASSIVE FRAZ montel RHYULITE PERPHYRY		
		MASSIVE FRANCE RHYCLIFE PERPHYRY SPIGHTLY CHORNEL		
		mari PyRit		
		36.54-56.99 5 TRONGLy Shoard at antort.		
74.98-77-11		Fine Graned PHYRICLE PERPHYRY. (FRIGORATED)		
÷				
	· · · · · ·			
77.11- 78.33		MINGRACIZED FRAGMENTER PHYLLITE (MERKEYRITHE)		
		1-79 Praile as disseminations bloke & Stringer		
		1-79 Pyrite as disseminations; blobi & Stringers.		
		8/		
78-33-84.43		MAIN DAMASCUS MINERALITIED ZONE	· · · · · · · · · · · · · · · · · · ·	
		BLACK SULPHIDE - RICH (SEMI-MUSSILE) PADTRIX CCUSISTING		
		MAINLY OF FINE PYRITE WITH BLOGS & STREAMS OF		
		CALTERN 2nd Spenster EE. 2nd Colley guzde from manks.		
		Host Rock is an Albert grant- Ruyerter Brack.		
		Quanto teny mont are virmantous.		
.		Mary & So Tiens And bodly brown and fragmental with Pour Cur Record	٧.	
		81.68 - 8260 Very badly brown Core.		
		8260-8321. Very Pour Row Recovery - Pebbles only		
		8321-8443 Lost Grea.		
		CORTE L @ COUTACT (78.33) = 5 610°, Buth Contact, SHAKA.		

	GRANGES EXPLOR	RATION LTD.
9	DIAMOND DRI	LL LOG

	Property $O + OPTION$ Project No. 133	Depth	Date Began
D.	Hole No O × 5	Horizontal Length	Date Completed
İ	Claim No.	Core Size	Drilled By
Page 3.0F.3	Grid No Angle & Grid Direction	Elevation	Logged By

ZONE:		Page 3.0F. 3. Grid No. Angle & Grid Direction Elevation	Logged By	•••••
INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE
84.43-8 9 .46		DERY STRONGLY SHEPRED ZONE - FAULT BRECCIA.		
		UERY STRONGLY SHEARTED ZONTE - FAULT BRECCIA. THACK PYRITE 84.43 - 85.65 VIERY BADLY BROKEN COLE WITH Gouge bands. 85.65 - 86.60 Lost Corte.		
89.46-90.22		STRONGLY ALTERED RHYOLITE		
90.22 - 93.57		SLIGHTLY SHEARED RHYOLITE.		
F.O.H.				
		ACID TEST @ 70.4 = 75°45' CASING PULLED.		
	-	HIGHLITES:		
		DAMASCUS MUNICALITICO ZONE INTERSECTED FROM		
		78-33 to 84.43. ZOUR COUSISTS OF BLACK SULPHIDE-RICH		
		MATRIX OF MAINLY FIVE PYRITE WITH BLEES, PATCHES		
		and STREAKS OF GALFUA and SAUDLERITE, WITH QUARTZ	· · · · · · · · · · · · · · · · · · ·	
		T-RAGMENTS.		
		INTERSTECTION IS LOCATED 2+ 1752.5 N, 72 METRES BELOW		
		04-43, HURITOUTAL WIDTH OF MINERALIZATION IS I METRE		



Property OX OPTION	Project No. 1.5.5	Depth 93.57	Date Began July 20 / 84
Hole No. 0× - 50	Co ord 1752.5 N	Horizontal Length 21-3	Date Completed JULY 21 / 89
Claim No. O - C	9100 E	Core Size U. Q.	Drilled By VAN ALPHEN EXPL
Grid No. Damascus, Zoute			

															<u>0 x</u>	- 43				
INTERVAL					_	_	٠.	As		WIDTH:	X ASSAY					AVER	AGES			
METRES	NUMBER	WIDTH	Au. PPb	Ag.	Cu. PPm	Zn. P <i>O</i> m	Pb	ppm	Au	49	Cu.	てん	P6	WIDTH	Au.	Ag.	Cu.	Zn.	РЬ	
0-3.05	easing	3.05			-															
3.05 - 29.81		26.76																		
29.81 - 31.18	2,547			1.4	33	206	54	678												
31.18 - 32.86	2,548	1.68	4		39	1013														
32.86 - 49.38	4354	16.52	1-		Ĭ															
49.38 - 50.29	2,549	1.91	22	1.4	120	6486	18	361												
50:29 - 77.11	waste	26.82																		
77.11 - 75.33	11550	1. 22	4	10-3	189	430	103	4.67				<u> </u>								
70 27 70 02	551	\cap \mathcal{I}	3.0	122 0	CUL	S1 281	11. 636	12 779	217	<i>8</i> 5.4	360	35,946	11,785							
70.73 - 79.80	52	0.77	113	58.0	ລວລ	6,902	2,855	5189	86.7	44.6	171	5314	2198							
77.03 77.00	<i>⊆</i> 2	0-67	370	67.8	347	35 338	13.570	17,693	247.9	55.4	252	23.676	9092							
79.90 - 80.47 80.47 - 81.08	54	0.61	410	97.5	507	44 237	14.214	15,488	250.1	59.4	309	26,984	8670							
81.08 - 81.69	5/	0.61	380	117.3	417	23.985	13. 739	15,015	231.8	71.55	254	14,631	8411		grams	arams	%	%	96	
0. /06 - 00 (0)		173 Y/ 1	2:01	10K 10	(な)"く	132 UG I	12 807	14.677		1718.0	467	130.922	16 934		,	7				
82.60 - 83.21	2557	0.61	757	1745	210	13955	23 35	12.157	152.5	75.9	128	26. 8/2	14.243	4.88	0.3000	116.8	0.04	3.3	1.5	78.33-83 2
83.21 - 84.43	1.000	0.01	2.30	10 11.5	010	101100	272	.07.00	15 107.6	(570.Z)	(1941)	164.3151	(73, 333)	(1-1-HW)	0.00807	2.40	02) 17			
8443- 85.65	2.556	1 2 2	10	14.6	101	4003	1277	361	(300.7)	(114.8)	(307)	(33.67)	(15,027)			<u>- </u>				
85.65-86.00	1. 1 (2)	0.30	,,	1.0	101	1,005	1091	201	, 000.7	(, , , , , , , , , , , , , , , , , , ,		7777	7							
86.00 - 86.4	205 COVE	D-33	80	50.0	120	1. 099	4806	3525	22.0	24.5	174	4500	-2001							
86.41 - 87.48	21227	1 07	26	57.7	2.1	5707	1119	1150	110-6	4-1-2	377	6/06	14/107	148	0.049	57.9	0.034	0.71	0.43	86.00-87.
87.48 - 89.00	3 5 6 1	105	30	115	200	10/10	549	1830		- G (- G -		10100	7,70	7.75	y	,	<u>v v y .</u>			
87.48 - 89.40 89.00 - 89.40	21561	1.46	19	17.5	011	924	261	514												
89.46 - 89.46	31360	D 71		9-3	10.7	007	701	51/-									_			
89.46 - 90.00	Waste	0 - 70 15					 		- 			<u> </u>								
90.77 - 90.53	LosHale	2 00		-	 												·			
90.53 - 93.57	Mazre	3.07	-		·															
EO.H.	1																			
												<u> </u>								
							-					<u> </u>	<u> </u>							
												<u> </u>	<u> </u>							
																			<u> </u>	
,																				
													<u></u>							
					Ī															
						1														
		<u> </u>	1	1	T	T	T	I	I	1	1						1	I	1	

	GRANGES EX	PLORATI	ON LTD
U	DIAMOND	DRILL	LOG

Property OX OPTION Project No. 133 Depth 111.86 Date Began July 22/89 Hole No. 0×-51 Co ord. $1696 \times$ Horizontal Length 44.6 Date Completed July 24/89Claim No. O7 - C 9175.5 E Core Size N.Q. Drilled By VAN ALPHEN EXPL. SEC.

Grid No. Angle & Grid Direction 65° 098° Elevation 0.92 m above 07-49 Logged By P.J. Dodan J.

INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET / METRES	MINOR GEOLOGICAL CODE
0-3.05		CASIUG		
3.05 - (0-09		Buff Colored Francisco Ruyoutes queg-green francisco Shugen Tran Stand, Sections with disseminated Praise, + block & Shugen		
6-09-762		LIGHT GREEN DACITE ??		
7.62 - 9.14		Light GATTY Colored DIACITE?		
9.14-11.28		BUFF Colored Fragmontal Ruyoli Tie Green Cehloute / fragment.		
11.28-32.31		MASSIVE WHITE -BUFF COROLED RUYOUTE - RHYOUTE PORPHYRY.		
3231-38-1		Light Goon - groy DACITIE - DACITIE PORPHYRY?		
38-1-41.45		RUYOLITE PORPHYRY Very SICICEDES FIRE GRAINED Cherty SECTIONS.		
41.45-51.20		RHYOLITE BRECLA - AGGLOMERATE CORSE TERNOMENTS.		
51.20-52.12		SHEARIED DIE BROKEN FRAGMENTAL PLHYOLITE.		
52.12-67.97		RHYOLITE BRECCIA		
(07.97 - 100-28		FRAGMENTAL RHYCKITE to RHYCKITE TUFE??		
100.28 - 104.79		DAMASCUS MIJERALITED ZOUTE - SOLID SULPHIDE - MOINTY PYRITE. MARROW PLTERED AND SHEEPIED SECTION CALCARTERIS. BLACK SIET MATRIX. STRENGRY ALTERED THE. CONTR. L. 24 WEST CONTRACT 2nd POINT Contest is 19"		
		BOH CONTOCKS WERE SHARP. FOR THE FIRST TIME THREE		

	GRANGES EX	PLORATI	ON LTD.
9	DIAMOND	DRILL	LOG

Property OX OPTION	Project No. 133	Depth	Date Began
Hole No. ○ ★ - 51	Co ord	Horizontal Length	Date Completed
Claim No. O. Z - C		Core Size	Drilled By

ZONE:		Page 🖰 o.F. 2 Grid No. Angle & Grid Direction Elevation	Logged By				
INTERVAL / METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE			
104.79-111.86		Fragmanac RHYXITE					
		10479 - 105.76 MILTERDUTED PYRITE (1-5%) as Blobs & Specs &					
E.O.H.		string els					
		MIGHLITES: DAMASCUS ZOUE, CONSISTING OF MASSINE SULPHIDE					
		(PYRITE) WAS INTERSECTED FROM 100.28 - 104.79 METRES					
		THE HORIZONAL WIDTH IS 1.5 METRIES THERESECTION					
		ON Long Section Plats on 1690.5 North; 88.5 METRES					
		BELOW 04-49. BOTH FEAST and WEST CONTACTS					
		ANTE SHARP, : UNLIKE PLE PREVIOUS HOLES, TIME					
	-	TEAST WALL (WORMALLY HE FOOTWALL) IS COMPETENT AND					
		UNSHEARED.					
				_ <u>L</u>			



Property OX OPTION	Project No 1.3.3	Depth / //- 86	Date Began JULY 22 / 89
• •	Co ord. 16.96 N	Horizontal Length 44.6	Date Completed July 24/89
Claim No. O × - C	8920 E	Core Size N.Q.	Drilled By VAN ALPITEN EXPL & SER
Grid No. DAMASCUS TOUR		Elevation 0.92 m Above 0x-4	9 Logged By P. J. Dover

			r			Gii	0 NO= .				X ASSAY			I		AVEF	RAGES			
INTERVAL METRES	NUMBER	WIDTH	Au.	Aq.	Cu.	Zn.	Pb	As		WIDTH		· · · · · · · · · · · · · · · · · · ·		WIDTH	Au.	Aq.	Cu.	Zn	Pb	
/METRES	NOMBER	WIDITI	PPb	PPm	PPm	PPm	ppm	PPM	Δu	Δq	Cu	てい	P6	WIDIH	Au.	Ag.	Cu.	2,11.	1 8	
0 - 3.05	CASING	3.05												<u> </u>			 		— —	
3.05 - 99.67	waste	196-62													 	ļ	 	 	 	
00	10.00	1 / / i	10	27.1	375	1649	1349	509			5// 0	- 10-5	(7 (
		10.61	800	248.6	839	40,740	10,994	28,890	488	151.6	5//.8	24,855	6706		 				†	
100.89- 101.50	1 ~ ~ ~	100	0	12001	1 827	120 519	しょう ればん	137 757	5 25.00	1 / >> >	$1 \leq \iota_0 \cdot \iota_2$	127, 100	9 205	 			 		1	
101.50 - 102.11	66	0.61	860	325.8	457	12.965	9505	36.757	524.6	137.4	278.8	7908	5798	 			 			
102.11 - 102.41	67	0.3	410	193.7	598	19,513	10,824	16,874	123	38.4	179.4	5.559	3256	 			-			
192.41 - 193.07	68	10-61	129	1 つえぃ	1 270	111.017	4273	17057	/2./	77.3	ו שיוני שו	16/20	1600		grams	31.200 5	%	%	%	
103.02-103.63	69	10-01	1020						622.2						7	/	1 /			
103.63-104.24	21570	0.61	1180	191.7	599	51,168	21,592	57,875	719.8	116.9	365.4	31.019	13,1 //	1151	A 722 -	1042	1000	2.7	1/	100.28-104
104.24- 104.79	7/	10.55	330	112.8	263	11.657	6857	17.963	181.5	62.0	144.6	6411	3111	1511W	0.1239	1971.59	17	1	 	
104.79 - 105.77	12,219	0.98		8.8	350	1050	484	י דטד	ا	l		<u> </u>		- X	0.0210	5.660	72//			
105.77- 111.86	waste	6.09					ļ. —		3,2(2).4	8 16.3	2611.3	17006	20007	 		 	<u> </u>			
					<u> </u>			-			593.6	27,238	11,726	 			 	<u> </u>		
E.O.H.				<u> </u>	ļ			PPM	.7236		<u> </u>			 		 	 	 	<u> </u>	
			<u> </u>		ļ	<u> </u>					<u> </u>	 	 	 		 	<u> </u>	 	 	+
				<u> </u>	ļ				<u></u>			 		 	 	 	-		 	
												 		 		 	╁┈──	 	 	
	<u> </u>			<u> </u>								ļ		 		 	 	-	 	
		ļ				<u> </u>	ļ				 	ļ		 	 	 	-		 	
-	<u> </u>				<u> </u>	<u> </u>	<u> </u>				ļ	 		 		 	 		 	
				 			 	<u> </u>	ļ		 	┼		 		 	 	<u> </u>	 	
	<u> </u>		ļ	<u> </u>		 	ļ			 	 	 		 	-	<u> </u>	 		 	
			<u> </u>		ļ		ļ		 	 		 		 	 	 	 	<u> </u>	1	+
				ļ	 	↓	 					 	 	 -	 	 	 	 		
			<u> </u>	<u> </u>	<u> </u>	ļ	<u> </u>	<u> </u>	ļ		 	 		 		 	 		 	
				<u> </u>	<u> </u>	<u> </u>	<u> </u>					 	 	 	 	 	 	╁───		
							<u> </u>	 			ļ	<u> </u>	 							
		ļ		 	 	ļ	ļ			ļ	╂───		 	 	 	 	-		 	
	<u> </u>		<u> </u>	<u> </u>		 	 	 	 	 	 	-	 		<u> </u>	 	 	 	 	
			ļ	<u> </u>	 	<u> </u>		-		 	 	 	 -	 	 	 	 	 	 	
			<u> </u>	<u> </u>	ļ		 	<u> </u>	ļ		 	 	 	1	l	 	+	 	+	
		ļ	ļ			 		-	 	 	 	 		 	-		 	 	 	-
				1	1	 	1	ļ		 	 -	+	 		1	 	1	1	+	
					_	<u> </u>		1	 		 	1	 	1	 	 	 	 	+	
			_	ļ	ļ				↓	 		 	ļ	 	 	1	-	 	 	
						<u> </u>	ļ	1	<u> </u>	 	 			<u> </u>	 	 	 	 	+	
							<u> </u>	1		1	1	 	ļ	-	 	1	+	 	+	
						1	_	_			_	_		1	 	 -	 		+	
			1	1	1	1	1	H	1	1	1	1	1	1	1	1	_1	.L		_ <u>L</u>



Property OX OP TION Project No. 133 Depth 163.67 Date Began July 24/89 Hole No. 0 x - 50 Co ord. 1740 W Horizontal Length 50 Date Completed TULY 26/89 Claim No. Ot - C 9169.5 E Core Size N.Q. Drilled By Van ALPHEN EXPL. SELV.

ZONE: DAMASCUS Page 1 0 F 3 Grid No. Angle & Grid Direction 72° 090 Elevation 4.45 M Bbove 01-50 Logged By P.J. D.-Jean

	MATOR	Page 7.07- 2 Grid No. Angle & Grid Direction 7.70 (2.70 Elevation 17.75 / 7.5 2000)		MINOR
INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	GEOLOGICAL CODE
0 - 3.05		Light GREY-BUEF COLCRED FRANKENTAL RAYOCITE		
		Silicon i Lacimonto		
	· · · · · · · · · · · · · · · · · · ·	Pyrite class ingolar & rounded prognonts; + irrigation Shingers.		
3.05-18.89		BUFF COLORED FRAGMENTAL RUYULITE PORPHYRITIC.		741
		Parphyriae.		
		remerces Pyrile Class, Speed, bliss, and Schrouded to		
18.89-28.8		BUER COLORED RHYOLITE to RHYOLITE PORDHYRY		
	,	- MACIE Pyrik green calified fragments.		
28.6-37.18		BITTE to PINCISU Colored Trungrained RHYOCITE		
37-18-40-23		BADLY BRILLEN RIGIOLITE. SILICEUS FRAGMENTY - THERE PYRILE. @ 39.60 - 2.5 cm Tore OF RAGULITE BRECCIA.		
		@ 39.62 - 2.5 cm Tole of Rugulitie Blacks.		
40.23-44.50		WHITE COLLED RHYOLITE		
		Small Feldipa Phonocryst I setud & Ksocipicas.		
44-50 -47-03	4	MINTERSUZED WINTE RINGULTE to RINGULTE PORPHIRY		
		Distriction Partie (1-29) Green (church) fragment.		
		DISTERNIZATED PARITE (1-29) 46.33-46.84 Trrog. la Pyrile Stringer (.63 cm mile) @ 5-109 to Con.		
117.7 117				
47.63-47.70		BEDDED LAYOUTER TUFF		
		SICICEOUS BONDS - FELDSPAR PHENCEYST - DE level to MAULIUITE.		
47.70-49.83		MINTERALIZED WHITE LIBURE CHORES PHYOLITE		
		Trrogular Pyrete Shingers @ 5-10" 4 Court Sound . 63 cm × 25 cm		
		DULS OF SPANLIBRITE		

	GRANGES EXPLORATION LTD.								
9	DIAMOND DRILL LOG								
_	ZONE:	Pa							

	Property OX OPTION Project No. 133	Depth	Date Began
D.	Hole No	Horizontal Length	Date Completed
i	Claim No (): - C	Core Size	Drilled By
Page 2 OF 3	Grid No Angle & Grid Direction	Elevation	Logged By

INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE
(47.70-49.83)	Covi		!	
		48.40-48.46 Lleas Solid Sulphide-Pyrite with blobs CE SP MALTERITE & VISIBEL CHALCOPYRITE		
		SP ADLIERITE & VISIBEL (HALCOPYRITE		
		49.77 - 49-83 SOLID SULPHIDE - FINE PYRITE WITH Blebs OF		
		CHALCOPYRILE and SPHALTERITE.		
49-83-7548		RHYOUTE GRECCIA - LAPILLI TOFF		
7105-1540		MAGOCI ETE TOTALETTE TOTALETTE	· · · · · · · · · · · · · · · · · · ·	
		FRIDSPMS STRONGLY ALTERAD to Kachende - Carkenate. Fine pellowist carbonate strugels abouted. Pyrile variable 0-3%		
		Fire yellowish corbando strugels abundant.		
		Pyrile variable 0-3%		
75-28-77.42		SHEARED RHYOLITE BRECCIA		
		Maneu Setiens Strongly Kadingod.		
		-		
77.42 - 81.38		CENTITE Colored RAYOUTE BARCUA.		
		Posicos.		
81-38-90-03		UTERY FIRE GRAINES WHITE RAYOCITE		
21-32-10-03		Cheky 1-1017 GRANNES WIGHT ME 1-490CT ITE		
		Joefiers esteered and badly broken. SILICOM.		
- P.H. L.	· · · · · · · · · · · · · · · · · · ·	/		
		82-60-8351 Baily broken & Cheard, - Kaolinized. 85.34-85.65 Browned & Heard Kaolinized. 86.67-87.00 Vergy Pyrile Stringer Parallel te Care. 85.65-96.63 Cole is should broken.		
		85.34-85.65 Browned & Mand Karlinged.		
		86.81-87.00 Wagy Pyrile Stringer por allel te Care.		
		AS 4 - 46-LS Colle () Meales + Dullan		
90.63-112.10		FRAGMENTAL RHYOUTE		
		FRAGMENTAL RHYOLFTE RICH IS MUCH MORE COMPETENT.		
110 11 :12 00				_
112.16 - 113.99		MINTERSLIZED FRAGMENTAL RHYOLIZE		
		5% Py PITE AS Trongelar Stringers, fragments & clots.		
		The second of th		



Property $O \times OPTION$ Project No. 13.3 Depth Date Began.

Hole No. $O \times -52$ Co ord Horizontal Length Date Completed.

Claim No. $O \times -C$ Core Size Drilled By

ZONE: DAMASCUS

Page 3 of 3 Grid No.

Angle & Grid Direction .

Elevation Logged By

ZONE. ¿	SAMASC V S	Page Coff Control Cont		
INTERVAL METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE
113.99 -148.43		FRAGMENTAL RUYOLITE		
	· · · · · · · · · · · · · · · · · · ·	114.91 - 116.43 SHEAREN & Fractured		
		114-91 - 116-43 SHEAREN & Fractured 117.04 - 118-26 Disseminated Profe 1-3% Price Clusters.		

148.43-153.01		Many BROKEN CICE (FRAMMENTAL RISJOCITE)		
15301-155.14		BADLY BRUGEN CORF OF GREY COLGRED SILICEOUS BRECCIA.		
		Lorge (1.27cm) subracided Perite Gragments		
155.14- 156.65 155.14- 156.65		MINTERALIZED DAMASCUS TONE - PYRITE 5-20%		
156.05 - 160:62		GREY-BLACK FOULT BRECCIA (ALTERED & SHEARED RHYCLITTE BRECCIA)		
		Large Risyoute Fragments with black goinge which is		
		Large Risyoute Fragments with black going which is soft and crumbly Trace Pyrite Corte Angle is 90		
1100.62-163.67		SHEARTED RHYDLITTE BRIECCIA.		
€.0, #.		ACIO TEST @130M = 72°		
		CASING PULLED.		
		HIGHLITES:		
		METRES. MUSRALIZATION IS PYRITE FROM 5-20%		
		THE LIKETON WAS THERSTER TEN GO METRES BELOW TRAT OF		
		04-50 NO IS BELIEVED TO BE UNDER THE PLUNG.		·
		THE ZOUE APPTENS TO PLUGE SOUTH OF ABOUT 27°. THIS		
		"MISSES" IN HOLES 47, 48 and 0x-50. (This Hole).		
		THE ZOUE REVERUES DIP FROM FORT. TO WEST WITH		
		DIEDTH		



Property OX OPTION	Project No. 133	Depth 163.67	Date Began July 24. / 89
Hole No. $O \times -5 \partial$	Co ord 1740 N	Horizontal Length 50	Date Completed July 26/89
Claim No. O × - C	9169.5 万	Core Size W.Q.	Drilled By VAN ALPHEN EXPL. SER
Grid No.	Angle & Direction	Elevation 4.45 M. above 045	o Logged By P. J. D. Jean

				Γ	I					WIDTH:	X ASSAY			I -		AVER	AGES			
INTERVAL METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Žn.	P6		an	Ag	72	Pb		WIDTH	Au.	Ag.	Cu.	Zn.		
2 35	CASINY		PPD	PPM	PPM	FIR	FFIX		200	144						<u> </u>				
0 - 3.05 3.05 - 7.77	waste					-					-									
7-77 - 9.75	21573	1 00	113	.4																
9-75 - 11-28	21574	153	19	.4																
11:28 - 12-80		1.52	9	.1																
12.86 - 14.33		1.53	9	.2																
14.33 - 15.85		1.52	20	13																
15-85- 17.37	79	1.52	17	1.3																
17.37 - 18.96		1.59	13	14						-	14. 2									
18.96 - 43.89	1.132 10	24 02		1 .7																
43 89 - 46.33			8	1.7																
46-33 - 46.85		0.52	24		<u> </u>	l														
46.85 - 47.67	1.3010	0.83	/ 10	30										1						
47.67 - 48.68	9,500	1 01	250	29.5	t				1		***		· · · · · · · · · · · · · · · · · · ·							
48.68 - 49.68		100	20		 															
49.68 - 49.90				29.1	 															
49.68 - 49.70	25.10	77/3		7.7.																,
87:02- 87:33	21555	0 3	56	1-4																
87.33- 112.17	4.2510	20 80	_ صر_	1. T																
112.17-114.0	OLC CO	1 85	10	2.5																
1140-117.04	25/8	7 04	<u> </u>	0.3										1						
117-04-118-26	0054	1 22	<u> </u>	2.7	l									 						
118-26-153.92	21501	25/1		0.7	<u> </u>	<u> </u>								Î					-	
153.92 - 155.14	2500	122	a 7	22.6		-									9-2ms	ar 2m s		%	%	
155-14 - 156-05		1.00	590			8934	10,714		536.9	159.3	8130	9749								
156.05 - 157.58	0,500			26.4			1521		58.1		6253				1					
157.58 - 158.95	215 90	127					4864		479.5		18,565			3.81	0.282	75.0		0.86	0.49	155.14-158.
158.95 - 159.10	1 310 31	215	220	102.0		<i></i>	700/			266.0					0.00802			1		
159.10 - 163.67	MOST LO	4.57	 	1	†	1			282.4	75.0	8647	4918			·					
139.10 - 103.61	was ac.	 /	 					PPM	0.2824											
8.0.H.	1		 	1	1			<u> </u>	1											
Е:О: Н.				<u> </u>	1															
	1								1					1				1		
		 		1	1		1		1									1		
			<u> </u>	 	1													1		
			 	1	1				1								1		1	
		 	1	†		1			1					1			T	1		
		 	1	_		1											1			
			†	1	1		1		1									1	1	
	1	<u> </u>	1	1	<u>. </u>			L	4	4	•			-	•	4	•——		-	

	GRANGES EX	PLORATI	ON LTD.
O	GRANGES EX DIAMOND	DRILL	LOG

Property OX OP 110 N	Project No/3.3	Depth	Date Began JULY 16/89
Hole No	Co ord. 1838 W	Horizontal Length	Date Completed July 18/89
			Drilled By VAN ALPHEN EXPL SE

ZONE:

Page 1 or 2 Grid No. Angle & Grid Direction 76.5 @ 084 Elevation 3.2 m lower than Logged By P-J. Deleack.

INTERVAL / METRES	MAJOR GEOLOGICAL CODE	DESCRIPTION	INTERVAL FEET/METRES	MINOR GEOLOGICAL CODE
0-3.66	-	CASING'		
3.66 - 43.43		RHYOLITE FELOSPAR PORPHYRY		
		Massive White to pive feldspar Phenoceyst in fiver grained		
		matrix of guests with losser feldepar		
		Feldspars allered to kachentel aid possibly societe		
		Brownish color alteration as a result or oxidation		
		Sections (uppor) strongly wan stained and some		
		many quese standing assessable with fractives.		
		Disseminations or Proche as blobs, patches and clos		
		Technical Fractional and/or breathed.		
		3.65-5.48 Broken & Stained		
		6.86-7.16 5% Pyrite		
		8.01-8.7 5% RyRite		
		9-23- D-21 1-4% "		
TOTAL SECTION AS A		12.13-12.65 2.3% Prache		
		17.68-19-5 3-6% 11		
		20.72 - 21.33 3-89. 11		
		728.04 - 28.65 Breccie led with chesty Fragments with 11. Preit		
		1 22-55 - 23.64 3-5 2 Nach		
		@ 30.9 - 0.40 cm sphalarile stringer @ 20 15 Care. 739.47 39.77 30% Praise as bloks, porches & cluts.		
		739.47 39.77 30% PYRILE as bloks, parches & clists.		
		-35.66 - 37.49 4% Preite		
		39.77 - 42.52 250 Purite		
		42.52 - 43.13 25% Pirite 25 blebs, patches & estrugers. 43.13 - 43.43 Brusen		
		GRE ANGLE 20°		
,				
43.43- 57.42		MASSING to BROKEN RHYALIES PORPHYRY		
57-42-73-09		MINIERALIZED BRECCIATED STROUGHY SHEDRED to FAULT GOUGE	ZOUZ.	
		Dusseminated Prate 1-8%		
73.09-76.04		MINERALIZED WHITE COLURED RUYOLITE, Sheared & SERICETIC		
		75.59-7604 10-159. PYRITU		<u> </u>
		13.37-1601 10-13/. 1.4474	<u> </u>	

	GRANGES EX	PLORATI	ON LTD.
O	GRANGES EX DIAMOND	DRILL	LOG

Property	· · · · · · · · · · · · · · · · · · ·	OPTION	Project No.	133	Depth	Date Began
Hole No	07	-47	Co ord		Horizontal Length	Date Completed
Claim No.					Core Size	Drilled By

Page 2 0 F 3 Grid No. Angle & Grid Direction Elevation Logged By ZONE: INTERVAL MAJOR GEOLOGICAL INTERVAL / METRES DESCRIPTION **GEOLOGICAL** FEET/METRES CODE CODE WHITE COLLEGE RHYCLITE with weakly disseminated Purity (1-3%) 76.04-81.38 76.96-77.42 5-10% Practe ACIO TEST C 57 Melico = 78° (Hele Steepeved) CASING REMOUTED. HIGHLITES: MAIN DAMASCUS TONE (SHEAR & FAULT TONE) WAS INTENSECTED FROM 57.42 to 73.09 METRES. ONLY DISSEMINATED PYRITE WAS NOTED. THIS TONE WAS INTERSECTED 53.5 METRES BELOW 04-21 ON SECTION 1839.5 NORTH.



Property UX UP 1/UN Project No. 133 Depth 87.38 Date Began 3ULY 16/89Hole No. 0X-47 Co ord. 1838 M Horizontal Length 17.2 Date Completed 3ULY 18/89Claim No. 0X-C 9045 E Core Size M-Q Drilled By VAM ALPHEN EXPL.

P-1062

Grid No. DAMASCUS TOUE Angle & Direction 76.5 @084 Elevation 3.2 m below 0x-21 Logged By P. J. De Veaux

	- 1 64 0	· · · · · · · · · · · · · · · · · · ·			Υ		1			14/10 TL		******		T		A1/CC	1050			1
INTERVAL	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	Ph	As		WIDTH	I X ASSAY	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u> </u>	r		AGES	7	,	1
METRES	NOMBELL	WIDITI	PPB	PPM	ppm			PPM			1	<u> </u>		WIDTH	Au.	Ag.	Cu.	Zn.		
0-3.66	CASING																			
3.66-6-86	waste																			
6-86-7.16	21500	3	14	4.1	661	479	72	los												
7.16 - 8.00	waste	86																		
8.07 - 8.67			15	5.6	409	898.	327	231												
8.67 - 9.24					100	0.0					1									
9-24-10-21	21503	0.97	5		165	545	137	100												
10-21-12.13																				
12.13 - 12.65	J. 203	452	5	1-0	83	349	147	197												
12.65 - 17.69	1, 2 (10	C 04																		
17-69- 19.51	21504	1.87	9	9.0	177	117	22	274						1.						
19.51 - 20.73	000	1.2.7		7.0	1.						1	1								
20.73 - 21.34	191505	161	4	4-0	323	693	50	283					1							
21.34 - 22.56	01.503	1.27		7-0	ر دور	075		707	-					1						
22.56 - 23-01			6	26	20.0	307	155	553												
23.01 - 26-04				0.0	200	<u> </u>	155						1							
2804-28.65	015,7	2.61	131	114	54	3765	777	2844				1								
28.65 - 35.66			الدا	7-1	/ر	57 15		2011			1			İ						
35.60- 37.49	Waste C	192	10	6.10	103	1081	502	740			1	1	1	Ì			.,			
37.49- 40.54	21500	7 15	3	30	226	601	380				1	1		1						
40.54 - 41.91	21510	132	2			440						1								
41.91 - 43.13	21511	1-27	30	1.4	457	2147	12/1	429			1					<u> </u>				
43.13 - 57.61			30	17.7	101	3.12	7501	107		1	1	1		1						
57.61- 58.37	21512	21	21	6.5	100	775	767	1658		!	Ì									
56.37 - 58.98			43	51				3962					1							
58.98 - 59.19			75	327	0,0	1209	982	3900						"		<u> </u>				
59.19 - 59.28							 			<u> </u>	1									
59.28- 60.04	TO ST LOSE	2 36	125	181	3/7	4070	2011	7,287				<u> </u>	1							
60.04-60.35	21515	21	74	8.6	1/13	1860	GUZ	7473			1									
60.35- 60.96			3/		354	991	377				1		1	1	grams	grams	%	%	%	
60.96 - 61.72	21517	.76	43	93	128	1000	1211	4929							77.	1				
(01.72 - 62.79	1213/6	101						21.667						1.07	0.280	52.5	0.02	1.6	0.5	61.72-62.
62.79 - 63.09			700	22.5	120	צעווכי	7.0.7	24,007							0.00807					
63.09 - 63.70			250	21.8	195	9832	3451	27376				1		1	2.2000	1 , , , , , ,	/_/			
63.70 - 64.47	2520	12.11	220	17.0	129	0572	1779	23 624				1	1							
64.47 - 64.77	21521	0.2	150	20.1	101	13,366	30ch	9946			1	1								
64.77- 65.22			150	70.7	141	1,000	3040	7790		1	1	<u> </u>	1	1				†		
65:22 - 65:53	1 10 -	21			 	-	1	H			1	1	1	1		†				
65.53 - 65.33			40	142	20.2	3201	000	3456		 	1	1	1			1		 		
WJ. J3 - 66.29	121200	00 70	ر ر	· T-J	200	3231	770	0100	 	1		1	 	†		<u> </u>				
	<u> </u>	1	<u> </u>	L	J	1	<u> </u>	И	L	1	1	1			L	L	L		l	<u> </u>

	GRANGES EX	PLORATION	ON LTD.
9	DIAMOND	DRILL	RECORD

Property	OX.	OPTION	Project No. 133	Depth	Date Began
Hole No	01	-47	. , _{Co ord}	Horizontal Length	Date Completed
Claim No.			.,	Core Size	Drilled By

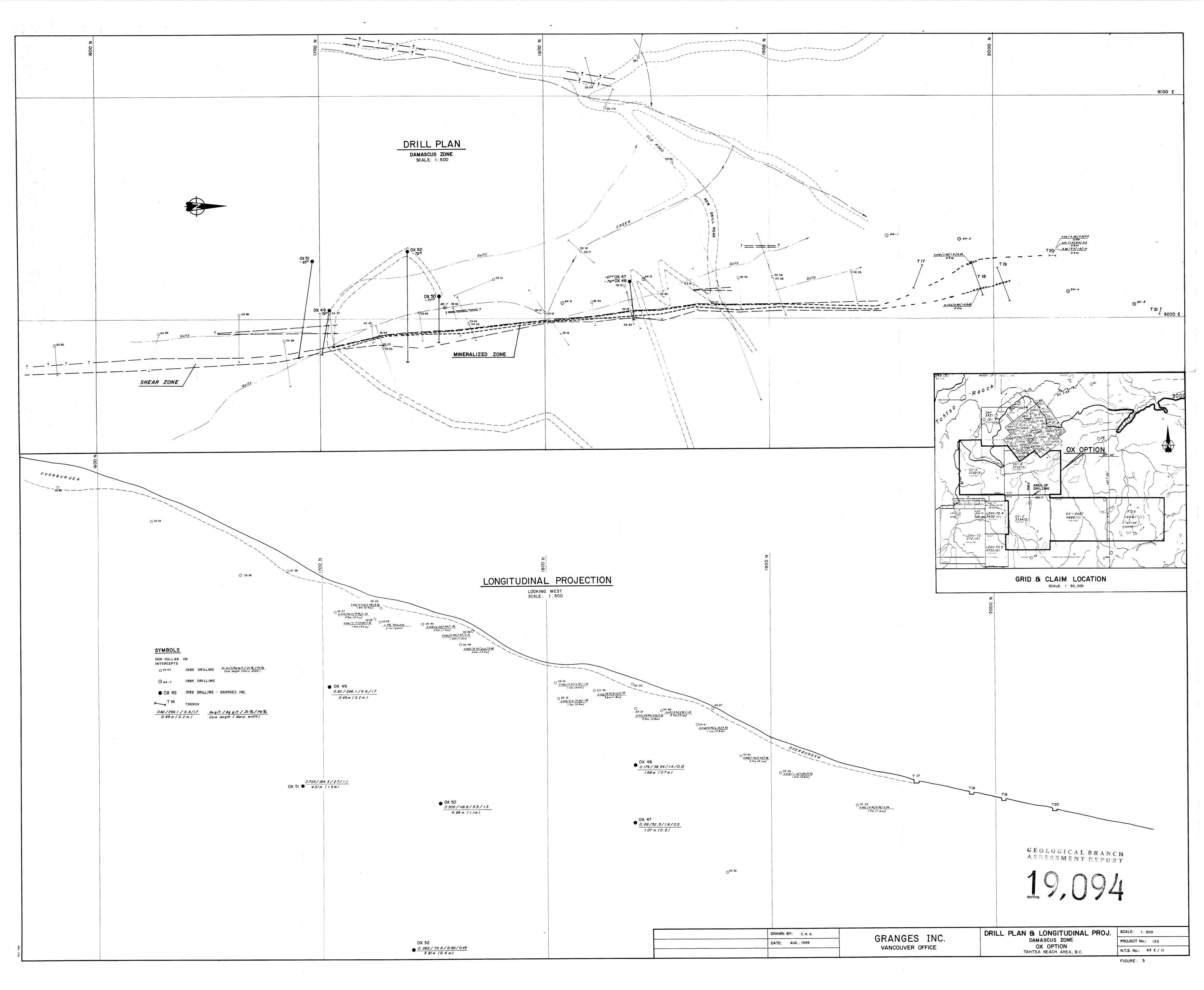
Page 2 ora

1		rage	2 06	d		Gri	Ø 1NO				Angle & Dil	ection		Elevatio			LO	gged by		
INTERNAL								As WIDTH X ASSAY					AVERAGES							
INTERVAL METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	Pb							WIDTH	Au.	Ag.	Cu.	Zn.	I	
			PPb		ppm	PPM	ppm	PPM								1				
(06.29 - 67.06	21523	U ++	24	7.6	142	1392	50/	1393			ļ					ļ				
67.06 - 67.82 67.92 - 68.73	24	0.76	7	4.3 3.1	72	1107	616	460								ļ				
67.82 - 68.73	25	0.91	11	3.1	145	550	242	613								 				
16873- 69,19	host Gre	13.46						ļ,								 				
69.19 - 69.95	21526	0.76	130					11,034								ļ				
69.95 - 70.56	27	10.61	6	1.0	117	240	101	170												
70.56- 72.24	hostCore	1.68														ļ <u> </u>				
72.24 - 73.06	21528	0.82	15	8.6	388	2084	616	773										ļ		
172 1/2 - 72 7/2	121500	1 ローチ	0	7.2	414	4465	567	101								<u> </u>				
73.76- 74.52	21530	0.76	9	7.5	796	916	517	264											 	
74.52 - 75.29	21531	D.77	14	48	630	315	135	231								 	 			
73.76 - 74.52 74.52 - 75.29 75.29 - 75.60	21532	1-08	36	13.0	1086	984	584	609								ļ				
75-60 - 76.05	33	10c 45	13	3.4	270			23/												
76-05 - 76-81	34	D. 76																		
7681 - 77.42	21535	0.61	8	1-8	464	147	55	18												
77.42 - 81.38	waste	3.96																		
																ļ.,,,	<u></u>			
E.O.H.																				
			<u> </u>																	
	 														1					
	İ														_					
			-																	
			 																	
	 										<u> </u>									
	 	 	t																	
	1	 		 					 		l	<u> </u>				1				
		 	<u> </u>							l										
	 	 	 	 			· · · · · ·	1			<u> </u>					 -	ļ			
	 		 	 					 	 						 				
		 	 		 		 		 	 						 				
		 		 		 	···			 	 				·	 				
			-		<u> </u>	 	-	 	 	 	 	,	 	ļ		 	l			
				 	<u> </u>	 	ļ	 	 	 	 	<u> </u>		 		 	 		 	
					<u> </u>	 	<u> </u>	 		 		<u> </u>	ļ			 		<u></u>		
		 	 			}	 -		 		 	 		 		 	 	ļ	 	
	I	L	<u></u>	<u> </u>	L	<u> </u>	<u> </u>	<u> </u>	l	L	L	<u> </u>	L	L	L	<u> </u>	L	L	L	L

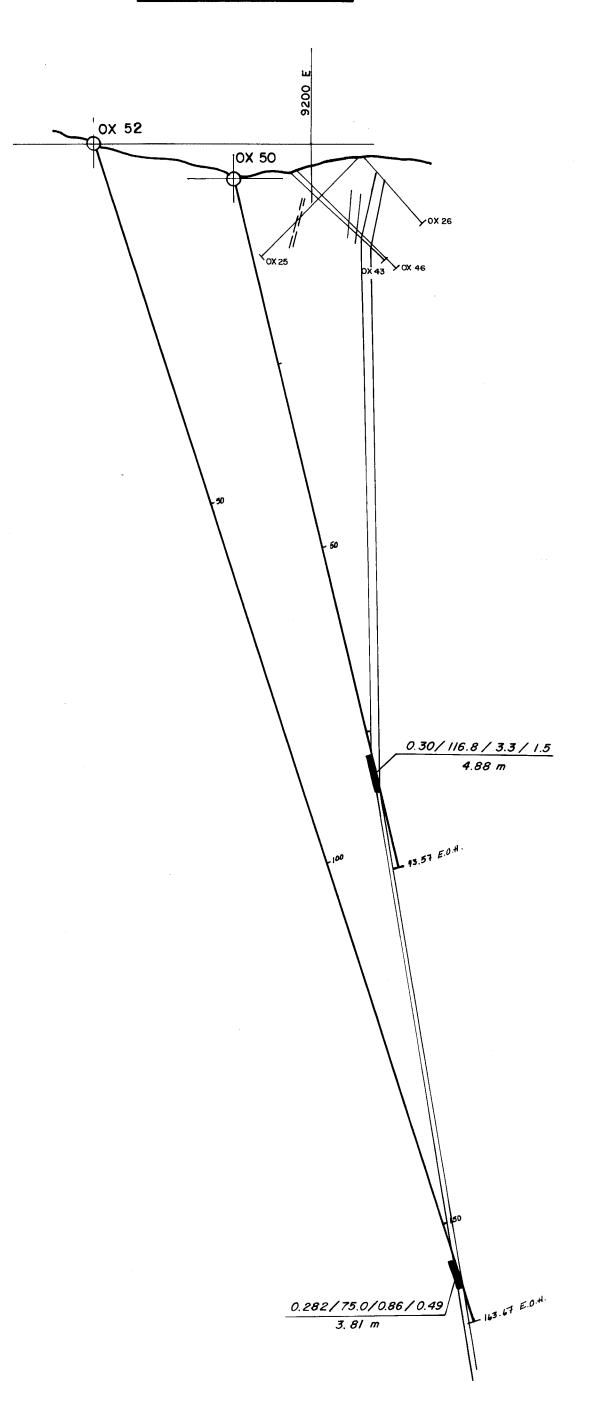


Property $O \times OPTION$ Project No. 133 Depth 81.38 Date Began July 16/89 Hole No. $O \times -47$ Co ord 1838 M Horizontal Length 17-2 Date Completed July 18/89 Claim No. $O \times -C$ 9045 E Core Size $N \cdot Q \cdot Drilled$ By VMN ALPHAN

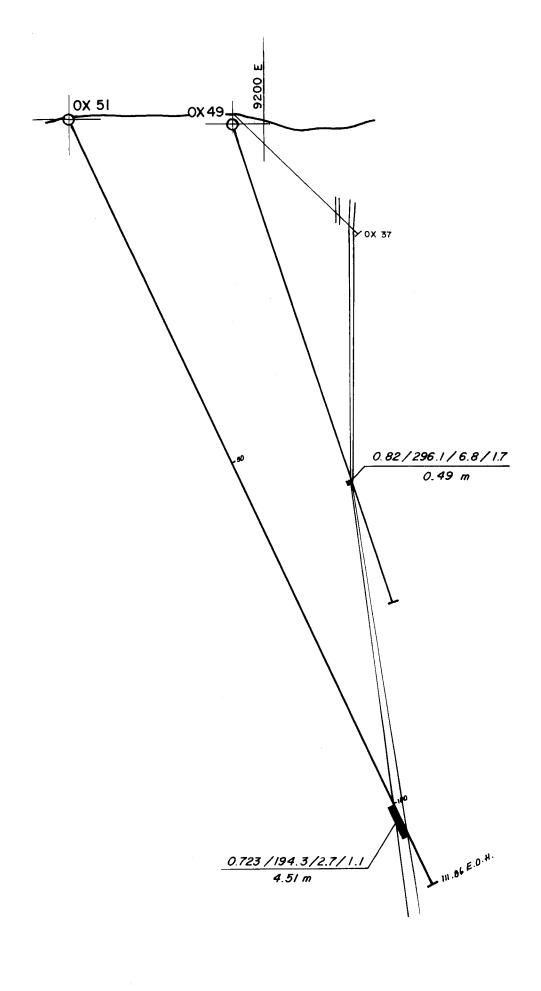
Grid No DAMASCUS Towie Angle & Direction 76.5° ROSY Elevation 3.2M below 0x-2/ Logged By P-J.D. SLUDGE WIDTH X ASSAY INTERVAL WIDTH Zn. NUMBER WIDTH Cu. 3.66-6-71 20500 3.05
6.71-9.75 20501 3.04
9.75-12.80 20502 3.05
12.80-15.85 20503 3.05
15.85-18.40 26504 3.05
18.90-21.95 20506 3.05
21.95-24.99 20506 3.04
24.99-28.04 20507 3.05
28.04-31.89 20508 3.05
31.09-34.14 20509 3.05
34.14-37.19 20510 3.05
37.19-40.23 20511 3.04
40.23-43.28 20512 3.05
43.33-49.38 20512 3.05
49.38-52.43 20515 3.05 49.38-52.43 20515 3.05 57.43-55.47 20516 3.04 55.47-58.52 20517 3.00 58.52-61.57 20518 3.05 61.57-64.62 20519 3.05 64.67-67.67 70520 3.05 61.67-70.74 20521 3.04 70.71-73.76 20522 3.05 73.76-76.81 20523 3.45 76.81 - 79.86 20524 3.05 79.8 - 81.38 2005 1.52



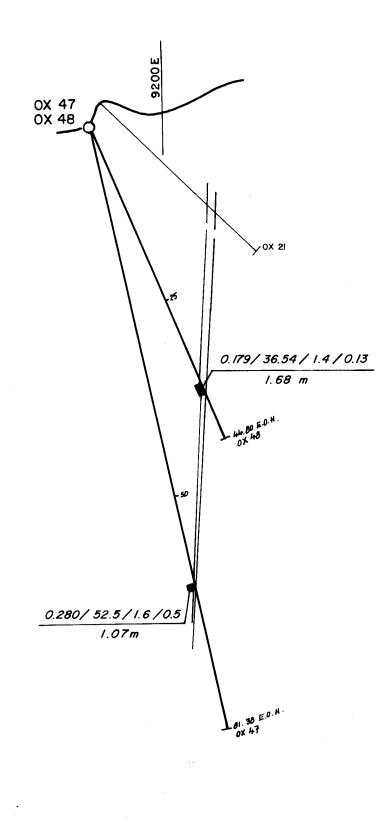
SECTION 1750 N



SECTION 1700 N



SECTION 1838 N



ASSAYS:

 $\frac{0.280/52.5/1.6/0.5}{1.07 m} = \frac{Au g/t / Ag g/t / Zn \% / Pb \%}{Core length}$

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,094

DRAWN BY: C. H. K. DATE: AUG., 1989

GRANGES INC. VANCOUVER OFFICE

DAMASCUS ZONE
DRILL SECTIONS
DDHs OX 47, 48, 49, 50, 51, 52
LOOKING NORTH
OX OPTION

SCALE: 1:500 PROJECT No.: 133 N.T.S. No.: 93 E / II