



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 3097	Intern Journal nr Kasse 31	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering
Kommer fra ..arkiv	Ekstern rapport nr N-81-1	Oversendt fra Tverrfjellet	Fortrolig pga	Fortrolig fra dato:
Tittel Diamond drill logs til "Folldal project. 1984"				
Forfatter		Dato 1984	Bedrift Folldal Verk A/S Amoco Norway Oil Company	
Kommune Folldal Alvdal Os Tynset	Fylke Hedmark	Bergdistrikt Østlandske	1: 50 000 kartblad 15192 16191 16193 16194 16202	1: 250 000 kartblad
Fagområde Boring	Dokument type	Forekomster Korsvoll Taubanen Bekkensetra Sletten Svarthue Fisktjønna Snausjøvola Sivilvangen Nonsvola Vingelen Storfloen Moseng Nordervollen Vardtjønna		
Råstofftype	Emneord			
Sammendrag Borhullslogger i tilknytning til "Folldal Project 1994". Rapporten finnes på BV 3096 . Kartbilag i tilknytning til rapporten finnes på BV 3098, BV3099, 3100 og 3101 .				

DRSVOLL
DIANOND
RILK 4065.



DIAMOND DRILL LOG

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		in limited amount, Only limited fine grained garnets found associated with more felsic tuff zones. Epidote found throughout especially noticeable at 70.50 - 73.40. - Pyrrhotite found as stringers from 65.00 - 65.35 along minor Pyrite and trace Cpy. Po. up to 2%. - Cubic Pyrite xstals up to 2.0mm seen in limited amounts more massive greenstone sections. Some also located in mafic tuff zones. located from 80.90 - 101.70.									
101.70	115.80	Mafic tuff - minor dacitic tuff. - Similar to 8.20 - 41.60 except slightly more mafic. - Pyrrhotite as fine stringers up to 15% found at 110.60 - 111.05. Restricted to dacitic tuff portion									

DIAMOND DRILL LOG

$$K(t) = \{35\} = 1.$$

FOLLDAL VERK A/S

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DIAMOND DRILL LOG

K01 - 83 - 2

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		Epidote associated with qtz carbonate boudins from 55.50 - 57.90. - No visible sulphide seen. Magnetite cubes up to 2.0 mm. found from 55.60 to 58.70 and are generally associated with massive greenstone sections.									
57.90	82.60	Mafic to felsic tuff. (Minor massive greenstone) - Unit is greenish grey, exhibits micaceous layering in more felsic portions and has larger concentrations of qtz carbonate. - Pyrrhotite up to 3% with traces pyrite found between 86.60 - 89.10. Magnetite cubes found in massive greenstone sections at 81.60 - 86.60. Gives speckled appearance.									

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DIAMOND DRILL LOG

[A-B3-1,

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		the veins.		72.60	73.60	426	313	< 120 ppm.			
		There are <1 %-7-8 % of Po and Py and	<1 %-7-8 % Py, Po.	73.60	74.60	101	166				
		10 Cpy (?).	10 Cpy (?).	74.60	75.60	206	195				
		From 85.00, banding 55 ⁰ to C.A.		75.60	76.40	149	222				
		23.25 - 26.48, 25.58 - 26.58, are more									
		chloritic sections well foliated and not									
		rich of felsic material or folded as rest of									
		the section.									
30.90	33.67	Mafic to felsic tuff.									
		In the upper part, the section is dark grey-									
		green with small nodules of qtz carbonate.									
		From 31.60 there is an increase in felsic									
		material up to about 50 %.									
		The whole section: < 1% Po and Py.									
		Banding 45 ⁰ to C.A.									
43.10	44.67	Graphite schist.									
		White to grey with approx 5 % amphibole									
		nodules and 5 % garnets (up to 5 mm) also									
		small nodules of qtz carbonate, banding 85 ⁰									
		to C.A.									

DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mn	Pb	Zn	Au	Ag
		There is also a contents of approx 5 % biotite, especially in the middle of the section. The garnets ends at 39.95. 39.95 - 41.40 a mafic chlorite section with qtz carbonate veins. At 41.00 near massive Po to approx 0.5 cm.									
43.10	44.67	Graphite schist. With up to 50 % (massive) Po and Py (?), that are very oxidated. Most approx 20 %. There are also seen amphibols (hornblende) 1-2 cm. 44.25 - 44.29 qtz carbonate without mineral- ization.									
44.67	47.00	Chlorite biotite schist. (approx 19.60 - 30.90) without mineralization. 44.86 - 44.92 qtz carbonate. 44.67 - 45.10, 47.10 - 47.60 same as 23.25 - 26.48.									

DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		48.57 - 48.60 smaller qtz carbonate layers.									
		From 52.00 -- 1% Py << 1 %.	1% Py								
		50.70 - 50.80, 56.60 - 57.70, 57.66 - 58.80,									
		same as 23.25 - 24.48 Py, Pb < 1 %.									
		Some Py crystals approx 5mm.									
		Bandings 45° to C.A.									
		59.06 - 59.57 approx 2-3 % Py.	2-3 % Py.								
		61.90 - 62.00 approx 2-3 % Py.									
		66.60 - 66.80 mica rich section with 2-3 % Py.									
		64.92 - 65.00 qtz lenses.									
		68.22 - 68.74 same as 66.60 - 66.86, 2-3 % Py.									
		69.98 - 70.10 approx 10 % Py on layer with									
		biotite.									
		70.98 - 71.11 mafic section with 10-15 % Py.	10-15 % Py.								
		71.11 - 72.30 a section with approx 50 % felsite,									
		(qtz carbonate).									
		76.64 - 76.95 same as 23.26 - 24.48 up to									
		1 % py.									
		78.26 - 79.00 approx 2-3 % Py, often crystals.									
		79.00 - 80.50 approx 1 % Py.									
		Bandings 30° to C.A.									

DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

DDH No.	N - 83 - 1	Azimuth	155 V	Started	May 30/83	Directional surveys					
Property	Bekkensetra	Angle	45° H	Finished	June 1/83	Depth	Azim	Dip	Depth	Azim	Dip
Co-ord.	L - 400 N	Depth	108.50 m	Logged by	J. Cuttle						

From	To	Description	Interval		Assays					
			From	To	Cu	Mo	Pb	Zn	Au	Ag
0.00m	4.5m	Overburden.	DDH. NO.							
4.5	12.00	Mafic tuff. - Dark greyish-green, with spotted appearance of tuffaceous rock. Somewhat banded in layers at 80° to E.A. Small sections of mafic tuff vary to more felsic sections similar to dacite. Qtz boudins are scattered (up to 5.00cm) with associate carbonate 30/70 mixture. Qtz dom. - traces of Py (as disseminations + cubes) plus very minor traces (ay associated with Py + Po. Pyrrhotite is in stringer form + minor.	DDH. NO.							
12.00	36.70	Keratophyre. (with mixtures of small graphitic horizons and sericitic phyllites). (Biotite rich in places). - Unit is creamy white to dark grey black where graphitic. Highly siliceous. Garnets are throughout	DDH. NO.							

DIAMOND DRILL LOG

N - 83 - 1.

FOLLOAL VERK A/S

PAGE 2.

From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		as disseminations up to 1,00cm. Unit becomes more felsic/mafic mixed towards bottom of unit, characterized by large amphibole laths in keratophyre matrix. - Unit is highly folded in biotite layered sections at 21.60 - 21.90. - Graphite horizons at 26.55 and possibly 30.80 - 30.90. (2), +33.80. - No associated sulphides seen.									
56.70	43.40	Mafic tuff. (Minor massive sections) - Unit is dark green similar to 4.5 - 12.00 except large hornblende laths are present. - Traces Py plus Pyrrhotite up to 2% as stringers noticed at 42.20.	1r-Py 2% - Po.								

DIAMOND DRILL LOG

N - 113 - 1

FOLLDAL VERK A/S

PAGE 3.

From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
43.40	57.05	Sericitic Phyllites (minor graphitic horizons) - Section is generally light green and has qtz plag. (carb?) bands at approx 75-80° to C.A. - Graphitic sections are from 51-80 and extend in small banded form to end of section. Po stringers associated closely with these zones. (<u>< 1% Po</u>).									
57.05	108.50	Greenschist with interbanded sericitic phyllites, (minor siliceous sections, keralophyre, graphitic phyllites). - Unit is highly variable but generally is considered a mafic volcanic sequence with minor sediment and a felsic zones. Highly banded to variety of rock types. Generally dark green to light green with light white section more felsic.									

DIAMOND DRILL LOG

$$N = 11.1$$

FOLLDAL VERK A/S

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SLETTEN

FOLLDAL VERK A/S

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DIAMOND DRILL LOG

54 - 885 - 1.

FOLLDAL VERK A/S

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DIAMOND DRILL LOG

SL - 83 - 1

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Ag	Ag
45.90	53.50	Qtz biotite schists, (with minor sericitic phyllites, and graphitic sections). - Highly variable section, ranging from light green (sericite) to black (graphite). Banding is from qtz feldspar approx 80° to C.A. Minor folding is present. - Sulphides are restricted to graphitic horizons found at 44.50, 48.20 - 48.90, 49.20 - 49.30, 50.05 - 50.45. Generally content ranges from traces up to 3% of Pb, with traces of Cpy, with lower units.									
53.50		C.O.H.									

SVARTHUE

FOLLDAL VERK A/S

PAGE 1.

DDH No	SV - 03 - 1	Azimuth	125.0	Started	June 6/83	Directional surveys					
Property	Svarthoe	Angle	45° W	Finished	June 10/83	Depth	Azim	Dip	Depth	Azim	Dip
Co-ord.	L = 1000 N	Depth	121.40 m	Logged by	J. Cuttle.						
From	To	Description	Interval		Assays						
			From	To	Cu	Mo	Pb	Zn	Au	Ag	
0.00m	7.5m	Overburden.									
7.5	13.75	Greenstone-mafic tuff. (minor keratophyre).									
		- Unit is quite variable through generally being more felsic towards top of unit. Greenstone is dark green to light green grey & varies into more tuffaceous zones where lighter colored.									
		- Light red garnets (< 3mm) associated with keratophyre zones.									
		- Dark grey to black cherty horizons are found but very minor in thickness.									
		- No sulphide found.									
		- Banding of tuffaceous (dacitic) zones at 80 - 90° to E.A.									

DIAMOND DRILL LOG

SV-B3-1

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
15.75	21.15	Quartz keratophyre - Qtz porphyry. - Unit is highly siliceous, light grey to white, grey and shows a somewhat coarse grained appearance. Chlorite + biotite give the core a speckled appearance. Light reddish garnets (< 5 mm) scattered throughout. - No sulphide seen except as fracture-fill at 14.70, 18.84 (very minor PY).	1c Py								
21.15	61.15	Mafic flows + tuff, (greenschist with minor cherty horizons and keratophyre) - Unit is generally darkgreen to light green grey. Banding at 80- 85° to C-A. Banded zones include qtz and feldspar. - 28.80 - 29.30 dark grey to black cherty horizon with minor pyrrhotite along bedding. Possibly graphitic. - 34.80, 52.60 - 54.20, keratophyre unit within mafic zones.									

DIAMOND DRILL LOG

SV-83-1

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		- Banded pyrrhotite found in minor section at 43.40, 44.40, 44.70-85.	Ir-Pb								
		- Small (1cm-3.0cm) graphitic horizons at 44.70-44.85, 52.25-52.45, and very minor but alternating strips from 57.10-59.40. Minor Fe associated.	Ir-Pb								
61.45	64.15	Mixed felsic tuff, Rhyolite + mafic felsic mixer.									
		- Unit is variable from light grey (felsic) to dark grey green (mafic zones).									
		- Sulphide zones of Zn, Pb, (Cu minor)	0.2 % Zn								
		63.20-63.25 (0.2 % Zn, minor Pb, <0.1 %)	<0.1 % Pb								
		Ir-Cu) 64.15 0.1 %-0.2 % Zn, Ir, Pb,	Ir, Cu								
		IR, Cu.									
		Pyrite is found scattered throughout and along fractures. Also as disseminates.									
		- Rhyolite flows from 63.45-63.80	IR-Cu, Pb, Zn.								
		includes pyrite with Cu, Pb, Zn, in									

DIAMOND DRILL LOG

SV-85-1

FOLLDAL VERK A/S

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From	To	Description	DDH No	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		traces along layered structures.		78.30	79.30						
				79.30	80.30						
64.15	65.20	Massive chloritic (biotite) ? schist.		80.30	81.30						
		- Dark green to black in colour.		82.10	83.10						
		highly irregular in bedding. Pyrite		85.65	86.65						
		found along fractures but minor.		89.55	90.55						
		Includes minor plagioclase qtz		90.55	91.55						
		carbonate zones as little inclusions.		113.25	114.25						
				115.25	116.25						
65.20	121.40	Quartz keratophyre, (minor mafic + chloritic sections).									
		- Unit varies from light grey white									
		to dark grey black. Very siliceous.									
		Includes sections of small amphibole									
		laths.									
		-Mafic chloritic sections are very									
		limited. Found at 78.55- 78.95,									
		82.00-82.15, 82.95-83.45, 85.80-86.55,									
		87.20-87.75, 104.75-105.60, 113.35-									
		113.70. May represent zones similar									
		to 64.15-65.20, although most probably									

DIAMOND DRILL LOG

5V-65-1.

FOLLDAL VERK A/S

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FOLLODAL VERK A/S

PAGE 1

DDH No	Fig-B3-1	Asimuth	55° W	Started	June 13/83	Directional surveys					
Property	Fiskitjonna	Angle	45° E	Finished	June 14/83	Depth	Azim	Dip	Depth	Azim	Dip
Coord	L-600	Depth	61,90	Logged by	B. Normann.						

From	To	Description	Interval		Assays						
			From	To	Cu	Mg	Pb	Zn	Au	Ag	
0,00m		Overburden.									
	26,50m	Chlorite schist with qz + plagi.									
		- Sections of kornatopyr with garnets from 7,90 - 8,40 and from 10,40 - 10,90 lenses or veins of qtz and plagi at 16,30 and 17,30, 11,80.									
		- In the upper part from 5,80 - 7,90, the schist is folded and has 2 % Po and same garnets.			2 % Po.						
		- The schist is also folded at about 24 and 25 m also with tr of Po a possible faulting zone at 20,50 m banding 45-80° to C.A.			tr Po						
26,50	34,00	Mostly graphite zone.									
		- Between the thicker beds and in the lower part of the section there is Ca, plagi rich chlorite schist with very thin beds of graphite.									
		- The whole section is associated with Po and Py (up to 2 % Po) some plagiom (34,00m) with Py crystals up to 4-5 mm.			2 % P,						
					tr, Py.						

DIAMOND DRILL LOG

F5-83-1.

FOLLDAL VERK A/S

PAGE 2.

From	To	Description	DDH No	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		- The structure of the section is best characterized as twisted and folded.									
		- From 30.80 to 31.40 it's a more parallel structure approx 40° to C.A.									
		- At 34.00 m it looks like a mylonite zone approx 15 cm.									
33.18	51.05	<u>Ca, plagioclase rich chlorite schist with thin beds of graphite schist,</u>	5-6 % Po.								
		with up to 5-6 % Po and some Py	Tr, Py.								
		- At 36.65 approx 15 cm graphite schist.									
		- at the lower part of the section the chlorite schist looks a bit more felsic.									
		- At 38.90, 40.10, 48.00, 48.50, 48.70 and 50.50 there are 5-15 cm wide zones with qtz and plag.									
51.05	51.65	<u>Graphite zone, with 2-3 % of Po and Tr, of Cpy.</u>	Tr Cpy.								
51.65	52.65	<u>Fuchsite rich qtz kyanophyre.</u>									

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FOLLDAL VERK A/S

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DIAMOND DRILL LOG

FOLDAL VERK A/S

PAGE 1

D.D.H. No.	5N 1-B5-1	Azimuth	200W	Started	June 22/83	Directional surveys						
Property	SMAUSJØVOLA 1	Angle	= 45 E	Finished	June 28/83	Depth	Azim	Dip	Depth	Azim	Dip	
Co-ord.	T-400 N	Depth	101,60 m	Logged by	B. Nergaard							
From	To	Description			Interval		Assays					
					From	To	Cu	Mo	Pb	Zn	Au	Ag
0,00 m	1,60 m	Overburden										
1,00	22,00	Chlorite phyllite										
		Dark grey with sericite and some grains of biotite. Veined with qtz banding 30° to C.A.										
		7.77 - 7.96, 9.70 - 9.86, 10.60 - 10.80, 12.40 - 12.60,										
		19.55 - 19.66, qtz carbonate with no mineralization.										
		From about 16,00 the section becomes more chloritic.										
22,00	63,10	Chlorite schist.										
		Banding 35° to C.A. Grey green with dykes of qtz and qtz carbonate, sericite and biotite on the schistosity.										
		36,05 - 36,80 increase in biotite content up to 8 %.										
		36,10 - 39,30 (same as 36,05 - 36,80) but now biotite up to 12-15 % and garnets up to 3,00 mm, magnetite (?).										
		39,26 veins with Pb and Py (2mm).										
		44,15 - 45,74 (same as 36,10 - 39,30).										
		From about 48,00 the veins become more carbonate rich -- qtz										

DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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From	To	Description	Interval		Assays						
			From	To	Cu	Mo	Pb	Zn	Au	Ag	As
		carbonate.	57.00	58.00	120.		8	95.0	<2		5
		50.10 - 50.90 (same as 36.10 - 39.30).	58.00	59.00	100.		10	41.0	<2		1
		As bottom a few thin layers with Py.	59.00	60.00	150.		12	110.	<2		3
		At 52.00 the qtz carbonate becomes more like lenses.	60.00	61.00	120.		28	92.0	<2		2
		From 52.50, a general increase in biotite to 5-10 % and K-spar	61.00	62.00	110.		10	91.0	5		2
		veins and lenses are seen, magnetite (?).	62.00	63.00	120.		60	220.	5		3
		Banding 45° to C.A.	63.00	64.00	270.		14	110.	2		1
			64.00	65.00	170.		52	82.00	<2		2
63.10	64.30	Iron formation.	66.00	67.00	48.0		20	57.0	<2		2
		High concentration of garnets, parts with massive magnetite.	67.00	68.00	130.		16	49.0	2		1
		5 % Po, Py (?).	68.00	69.00	120.		24	150.	<2		5
		Also biotite and qtz carbonate.	69.00	70.00	90.0		12	45.0	<2		1
			70.00	71.00	86.0		16	34.0	<2		1
64.30	72.55	Chlorite schist.	71.00	72.00	80.0		20	41.0	<2		1
		From top, mafic with garnets up to 1 cm layers of biotite and	72.00	73.00	100.		56	63.0	10		8
		magnetite.	73.00	74.00	300.		50	54.0	13		540
		Approx 5 % Po.	74.00	75.00	290.		18	120.	12		290
		73.45 - 74.70 bands of massive Po, up to 5 cm wide.	75.00	76.00	71.0		22	56.0	8		1
			76.00	77.00	90.0		20	91.0	<2		<1
75.00	101.60	Chlorite schist.	77.00	78.00	69.0		10	59.0	<2		1
		(same as 64.30 - 72.55) but now with thin layers of Po.	78.00	79.00	110.		12	61.0	<2		7

DIAMOND DRILL LOG

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FOLL DAL VERK A/S

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DIAMOND DRILL LOG

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FOLLOAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays						
				From	To	Cu	Mo	Pb	Zn	Au	Ag	As
		qtz-carb. linges and layers, wich give it a fragmentary appearance occasionally some epidote along bedding and Ir Py.		57.10 m	57.35 m	290.		8	100.	12		25
				59.70	60.10	520.		62	55.0	<2		1
				61.45	61.60	270.		18	59.0	7		2
		49.30-50.30 interbed section same as previous unit from 13.00-53.50.		62.35	63.35	280.		44	210.	4		1
				63.55	63.90	130.		48	120.	<2		4
				66.05	67.05	100.		58	160.	<2		3
54.70	60.30	Carbonaceous biotite schist, (same as 13.00-53.50)		67.05	68.00	440.		58	180.	<2		2
				68.85	69.00	440.		32	140.	<2		1
		Light grey-brown with 7-10 % biotite which gives it a speckled appearance.		74.90	75.05	380.		32	140.	<2		3
				77.25	78.00	160		28	180.	4		7
		Upper contact marked by interbeds of overlying tuff as follows: 54.90-55.30,		78.30	79.30	280.		54	130.	<2		100.
		56.20-56.90, 57.15-57.30. Siliceous cherty unit, high magnetite content, minor Py, Cpy.		79.30	80.45	220.		18	55.0	<2		6
				88.10	89.10	79.0		20		<2		55
60.30	69.00	Mafic tuff.										
		Same as 43.20-54.70, 61.30-61.60. Magnetite Po - ironformation approx 5 % Po, Ir Cpy.										
		From approx 61.30-64.50 highly garnetiferous up to 5 mm.										

5N-11-115-1.

FOLLDAL VERK A/S

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DIAMOND DRILL LOG

SN-11-85-12

FOLLOAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
82.40	91.90	Carbonaceous biotite schist. (As 13-33-50) 75 th C.A. - In places has considerable felsic material which may be keratophyre marked by graphite a few up to 1 cm Py crystals. Narrow interbands of Po-magnetite up to 20 cm at 86.40 and 86.70. 88.10-89.10, magnetite concentration as previous. Narrow Py- magnetite zones at 89.90-90.10.									
91.90	103.50	Mafic tuff, (numerous interbands of more felsic material.) - Has a marked fragmental appearance 93.00-98.00. Carbonaceous, biotite schist with narrow interbands of mafic tuff up to 20 cm. - 98.00-103.50, more massive intermediate volcanic, quite chloritic, no magnetite.									
103.50		F.O.H.									

DIAMOND DRILL LOG

SN-11-B3-2.

FOLLODAL VERK A/S

PAGE 1.

D.D.H. No.	SN-11-B3-2	Acimuth	40 W	Started	June 17/83	Depth	Acim	Dip	Depth	Acim	Dip
Property	Smausjøvold II	Angle	- 45 E	Finished	June 21/83						
Coord.	L-500 S	Depth	81.00 m	Logged by	A. Jackson, B. Nerøgen.						

From	To	Description	Interval		Assays					
			From	To	Cu	Mo	Pb	Zn	Au	Ag
0.00m	3.00 m	Overburden.								
3.00	7.20 m	Qtz veins. No sulphide noted, but several short sections of chloritic schist.								
7.20	40.00	Chlorite schist - Carbonate-biotite schist. Medium green well foliated, some sections are quite felsic in appearance, and may be keratophyre banding at 55 ⁰ to C.A. Numerous biotite and magnetite flakes and crystals throughout also carbonaceous biotite schist at 16.50-18.10. A section with bands of magnetite and large flakes of sericite-chlorite talc, several small qtz veins. From about 21.00, highly biotitic (5-10 %), becomes a biotite-carbonate schist.								
40.00	56.30	Biotite schist. Approx 20 % biotite, with qtz-carbonate, well banded at 45-50 ⁰ to C.A.								

DIAMOND DRILL LOG

5N-11-832

FOLLDAL VERK A/S

PAGE 2

From	To	Description	DDH No.	Interval		Assays						
				From	To	Cu	Mo	Pb	Zn	Au	Ag	As
-		= Several narrow stringers of magnetite,		43.05 m	44.05 m	280.		92	110	<2		2
		minor stringers of Po (44.90-45.10) 45.10-		44.05	45.05	150.		60	100	<2		2
		46.70 mafic tuff highly chloritic interbanded.		45.05	46.05	130.		70	74.0	<2		<1
		= From 40.80 numerous K-feldspar lenses		51.80	52.80	170.		66	110.	<2		1
		also high concentration of very small garnets.		52.80	53.80	220.		82	120.	<2		3
		= 53.00-56.30 increase in stringers of Po	Py < 3 %	53.80	54.80	220.		160	140.	<2		2
		Py ? less than 3 %.		54.80	55.80	95.0		120	150.	2		12
				55.80	56.80	350.		40	110.	5		3
56.30	57.70	felsic pyroclastic.		56.80	57.80	210.		49	100.	<2		<1
		Fragments up to 2-3 cm of felsic material		57.80	58.80	150.		52	130.	<2		1
		with Po and chlorite surrounding fragments		58.80	59.80	75.0		110	130.	<2		5
		approx 20 % Po. also long amphibole needles.		59.80	60.80	28.0		18	98.0	<2		1
				60.80	61.80	220.		66	210.	<2		64
57.70	72.65	Biotite schist, (same as 40.80- 56.30) lots		61.80	62.80	470.		26	210	<2		16
		of garnets.		62.80	63.80	81.0		76	86.0	5		1
		58.80-59.20 interbanded zone of Po as above,		63.80	64.80	400.		78	90.0	4		15
		61.60-63.20 highly chloritic garnetiferous		64.80	65.80	230.		60	160.	<2		2
		section up to 5 % Po in blebs.		65.80	66.80	150.		200	130.	7		1
				66.80	67.80	15.0		48	180.	<2		2
				67.80	68.80	240.		40	130.	<2		1
				68.80	69.80	79.0		110	120.	<2		8

DIAMOND DRILL LOG

5N-11-B3-2

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays						
				From	To	Cu	Mo	Pb	Zn	Au	Ag	As
57.70	63.20	Biotite schist, (same as 40.80-56.30) lots of garnets.		69.80	70.80	14.0		100	120.	9		2
		58.80-59.20 interbanded zone of Po as above.		70.80	71.80	60.0		82	97.0	<2		2
		60.10-61.60 mostly chlorite garnetiferous		71.80	72.80	180.		46	97.0	<2		2
		section up to 5 % Po in blebs.		72.80	73.80	61.0		58	93.0	<2		3
63.20	72.65	Chloritic schist (Mafic tuff). Medium to dark green, well bedded at 70 ^{ft} to C.A. Numerous sections of near massive Po, Ir, Cpy (50 % - near massive). 64.05-64.15, 64.30-64.75, 64.95-65.10, 65.60-65.70, 65.80-65.90, 66.40-66.60, 68.20-68.40, 68.60-69.00, 69.25-69.40, 71.50-71.70, 72.35-72.65. - From 65.50-68.50 very highly contorted chloritic section.										
72.65	81.00	Biotite schist, (same as 40.80-56.30). Highly garnetiferous (small), occ. small K-spar veins.										
81.00		C.O.H.										

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DIAMOND DRILL LOG

5-83-1

FOLLOAL VERK A/S

PAGE 2

From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		14.90 - 15.25 keratophyre (same as 8.60 - 8.85)									
		without Py.									
		11.00 - 11.57 qtz veins up to 7.0 cm.									
		15.30 - 15.55 Keratophyre (same as 8.60 - 8.85)									
		with Ir, Py < 1 %.									
16.23	51.70	Keratophyre.									
		- Light to dark grey-green 65 ⁰ to C.A.									
		The section contains very thin layers of									
		chlorite after quite black.									
		18.60 - 19.23 thicker layers of chlorite,									
		up to about 7-10 cm.									
		19.95 - 20.12 qtz - no Py.									
		20.35 - 20.57, 20.78 - 20.90, zones of heavy									
		chlorite concentration 20.92 - 20.98 qtz.									
		- from 21.05 - 22.40 the keratophyre be-									
		comes more fine grained and well layered.									
		22.80 - 22.90 (same as 20.35 - 20.57)									
		24.50 2 cm qtz with Py									
		24.83 - 24.93 qtz. NO PY.									
		26.50 - 26.60 qtz									

DIAMOND DRILL LOG

W-115-1

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		26.30 - 26.50 chlorite zone (same as 20.55 - 20.57). From about 26.90 the keratophyre becomes more pale green and contains Py from only Ir < 1 % up to 2 % approx 60° C.A.									
		31.50 - 36.20 the keratophyre is not so well layered and becomes more folded as the occurrence of qtz veins rise (0.5-2.0 cm) 0.5-2 cm Py from Ir to 1 %.									
		38.43 - 38.50 qtz Py on chlorite layers.									
		38.80 - 39.10 " " " " " "									
		44.80 - 44.20 " " " " " " at 44.60 - banding at 65° to C.A.									
		44.80 - 50.18 a section of darker keratophyre close to a chert, but still with layers of chlorite and also some layers of k-spar.									
		Py is seen in chlorite veins and thin veins of qtz carbonate.									
		- 50.78 - 50.90 qtz carbonate, no Py.									
51.70	52.80	Graphite schist.									
		- 1-2 % Py and Po. 52.23 - 52.54 qtz with									

DIAMOND DRILL LOG

S-B-1

FOLLOAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pt	Zn	Au	Ag
		Py and carbonate on layers.									
52.80	116.50	Keratophyre.									
		(same as 16.25 - 51.70). Banding 55° C.A.									
		This section is more cherty than the previous									
		one. From 52.10 - 54.00 is dark grey and									
		contains a lot of carbonate, as fragments and									
		layers. Tr, Py from 54.00 the chlorite									
		makes the keratophyre grey-green, but it still									
		contains a high grade of carbonate.									
		At about 55.80 there is a increase in layered									
		se mineralisation with thin layers 1 cm									
		massive Tr, Py, Cpy. L. there are also Py									
		and Cpy in different grades.									
		56.90 - 57.45 is very good section with									
		massive Se. in the upper 11 cm, then it is	Se, + Tr, Cpy, PY.								
		more spread out and mixed with Cpy and Py									
		in graphite schist.									
		57.45 - 58.55 keratophyre as above section									
		but still with thin layers approx 5 % of Se									
		and Py.									

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DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	As	Ag
		59.40 - 59.50 some bands with Py approx 3 % (?)	Py 3 %								
		61.67 - 53.30 chert section with small eyes									
		of carbonate. No visible mineralisation									
		60.55 - 60.43 up to 4.5 % Si and ~1 % Cpy,	Si 4-5 %, 1 % Cpy,								
		Py, 63.80 - 63.90, 64.00 - 64.10, 63.45 -	Py,								
		63.46, qtz 67.55 - 68.95. More mafic section,									
		still with mineralisation on layers up to 2-3 %									
		Py. 69.55 - 71.30 (same as 67.55 - 68.95)	2-3 % Py								
		65 ⁰ C.A.									
		75.60 - 75.70 Keratophyre with PY and Cpy	Py, Cpy, approx 3%								
		up to 3 %.									
		76.95 - 80.80 (same as 67.55 - 68.95) with									
		some Py crystals. The section in out no									
		well layered and contain some carbonate.									
		From 80.80 - 106.50 the keratophyre contains									
		crystals of Py and Cpy.	Si, 1% PY, Cpy.								
		84.28 - 84.33 qtz with PY in chlorite layers									
		84.67 - 84.72 ~ 10 % Py and 1-51.									
		86.65 - 87.30 more mafic section (same as									
		67.55 - 68.95). From 87.30 it seems to be an									
		increase in thin carbonate layers across the									

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FOLLDAL VERK A/S

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FOLLDAL VERK A/S

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FOLLODAR VEH A/S

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DIAMOND DRILL LOG

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FOLLDAL VERK A/S

PAGE 2.

From	To	Description	DDH No.	Interval		Cu	Mo	Pb	Assays			
				From	To				Zn	Au	Ag	
		55 ⁰ to C.A.										
		Flakes of biotite and chlorite. Some thin layers of chlorite.										
		- 24.70-24.87, 25.50-25.78, 30.50-31.95,										
		chloritic sections, medium dark green well										
		layered with some lenses (up to 5 cm) with										
		qtz carbonate.										
		- 33.00-34.50, 35.90-36.50, keratophyre										
		same as 1.70-23.80 <1 % Py 50.00 banding										
		65 ⁰ to C.A.										
		- 38.65-41.05, 45.73-47.50, same as 24.70-										
		24.87.										
47.50	112.85	Keratophyre, (same as 1.70-23.80).										
		48.83-48.95, 56.16-56.28, qtz 50.00 banding										
		75 ⁰ to C.A.										
		52.00 banding 55 ⁰ to C.A.										
		61.45-67.65 a chlorite section, well layered.										
		62.60-62.76, 63.63-63.67, 64.64-64.65,										
		65.42-65.57, 65.68-65.79 qtz carbonate										
		66.00 65 ⁰ banding to C.A.										

Name: Erik A. V.

DIAMOND DRILL LOG

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FOLLODAL VERK A/S

PAGE 3

From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		65.80-66.00 ~ 1 % Py.									
		70.65-71.53. 76.45-76.63 chloritic sections, same as 61.45-67.65.									
		76.25-76.37 qtz carbonate, from about 73.00- 104.00 then are a lot of veins with crushed rock fragments 85.00 banding 80 ⁰ to C.A.									
		83.75-83.83, 84.53-84.62 qtz carbonate.									
		81.00-81.40 garnets in the keratophyre from about 80.00-									
		There are very thin layers parallel to the C.A. with fine grained Py, that looks black before you split the core along the layers and can see the flakes of Py.									
		90.00 banding to C.A.									
		94.20-94.30, 96.05-96.40, 98.90-99.24, 100.00-									
		100.14, 102.45-103.40 are sections where the keratophyre is very folded.									
		108.55-108.86 very felsic and folded section with ~ 5 % Py and and 5 % Po concentrated on layers and veins.									

Basal Felsic S.S.

DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
112.85	120.55	Chloritic graphitic schist, with magnetite and sulphide mineralisation. - Dark grey to black, banding 60° to C.A. It's most notable that the dark color comes from small amounts of graphite in the upper of the section. Further down pure graphite schist can be seen. The section is well layered. From 116.70 there is an increase in mineral- isation. Py and Po (?) on layers approx 3%. 117.50-118.85 more felsic zone. 119.60-119.90 "Good" graphite schist with Py 2%.									
120.55	140.00	Keratophyre, (name as 1.70-23.00) 80° C.A. 122.25-122.56 good section of Sl with Py and Cpy, nearly massive. Down to 123.30 keratophyre with mineralisation in bands 5-6 % Py approx 1 % Cpy approx 2 % Sl. 123.30-123.70 a darker and more cherty keratophyre approx 2 % Py, 1% Cpy, also									

FOLLDAL VERK A/S

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FOLLDAL VERK A/S

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DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays						
				From	To	Cu	Mo	Pb	Zn	Au	Ag	
		ization of Sl, Py, Ir Cpy and Po(?).										
		The mineralization mostly seems to be										
		connected with the felsic layers 32.70 - 33.20,										
		34.76 - 35.64, 38.50 - 41.20 seems to have										
		more mineralization than the rest of the										
		section.										
41.20	79.00	<u>Keratophyre.</u>										
		Pale to dark grey, more felsic than the										
		section from 5.30 - 28.10, but thin layers.										
		A fine grained mineralization of Py, Cpy (?)										
		Sl, Po (?) are also seen.										
		Banding 70 ⁰ to C.A.										
		There are also thin layers and small nodules										
		of qtz carbonate.										
		There are also seen grains of magnetite.										
		45.60 - 47.40 a more chlorite section with										
		good mineralization up to 10-15 % Sl, 5 %										
		Py, Ir, Cpy.										
		From 47.60 the keratophyre seems to be darker										

DIAMOND DRILL LOG

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FOLLDAL VERK A/S

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Hatcher, L. A. & S.

DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

D.D.H. No		Azimuth		Start		Directional surveys					
S-85-5.		135° W		July 20		Depth	Azim	Dip	Depth	Azim	Dip
Property		Angle		Finished							
Co-ord.		Depth		Logged by							
1-5200		150.00 m		B. Nermoen.							
From	To	Description	Interval		Assays						
			From	To	Cu	Mg	Pb	Zn	Ag	Au	
0.00 m	4.17 m	Overburden.	110.50	111.50	734			0.26 %			
			111.50	112.50	0.11 %			0.14 %			
4.17	25.35	Keratophyre chlorite.	112.50	113.50	0.16 %			0.10 %			
		Pale green to pale grey, layers of chlorite and up to 7-8 % biotite.	109.50	110.50	521			0.11 %			
		Banding 45° to C.A.	113.50	114.50	653			561			
		Nodules and layers of carbonate <1 % Py.	114.50	115.50	285			432			
		7.95 - 8.09, 8.25 - 8.32, 11.50 - 12.05, 12.60 - 12.70, 17.10 -	115.50	116.50	153			175			
		17.23, qtz carbonate with chlorite layers with approx 1 % Py.	116.50	117.50	501			0.11 %			
		13.00 banding 50° to C.A.	117.50	118.50	584			0.11 %			
		From 18.00 only few flakes of biotite several dykes (?) are seen:	118.50	119.50	433			832			
		21.00, 18.40, 19.40.	119.50	120.50	493			795			
			120.50	121.50	457			400			
			121.50	122.50	405			553			
25.35	32.90	Leucite chlorite schist.	122.50	123.50	242			231			
		Dark green with layers and small lenses of qtz carbonate biotite are seen.	123.50	124.50	143			206			
		<1 % Py banding 40° to C.A.	124.50	125.50	668			0.17 %			
		29.40 layers approx parallel to C.A.	125.50	126.50	351			272			
			126.50	127.50	291			249			

DIAMOND DRILL LOG

S-85-5.

FOLI DAL VERK A/S

PAGE 2

From	To	Description	DDH No.	Interval		Cu	Mo	Pb	Assays		
				From	To				Zn	Au	Ag
		26.00 - 27.70 several dykes (?).		127.50	128.50	247			164		
				128.50	129.50	188			485		
32.90	48.50	Keratophyre, chloritic, (same as 4.17 - 25.55)		129.50	130.50	107			508		
		Banding to C.A.									
		35.40 - 36.60 (same as 25.55 - 32.90).									
		38.00 - 38.30 small masses of Py in layers									
		of biotite situated in a felsic section.									
		41.40 banding 40° to C.A.									
		58.90 - 59.50 dark grey cherty section with									
		magnetite (?) <1 % Py.									
		45.90 - 45.10, 45.70 - 47.00 (same as 25.55 -									
		32.90). 46.55 - 46.64 qtz.									
		47.00 - 47.90 thin veins with thin flakes									
		of Py. Looks black " from outside ".									
48.50	61.05	Felsic chlorite schist, (same as 25.55 - 32.90)									
		approx 85° to C.A.									
		Some felsic sections around 55.00 are very									
		crushed by dykes.									
		From 58.80 there are an increase in biotite									
		and felsic material biotite up to 59.00									
		banding 70° to C.A.									

Revised Log A/S

DIAMOND DRILL LOG

FOLLDAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
61.05	86.50	Chert.									
		Dark to pale grey sediment, sometimes near black coloured. Well layered with small layers and lenses of qtz carbonate. In parts of the section there are also very narrow dykes approx along C.A. Filled with qtz carbonate, and Py, on the dykes up to 50 %.									
		Banding 45° - 60° to C.A.									
		66.50 - 73.00 still chert, but more felsic (?) and with chlorite on layers. Still Py on dykes.									
		75.40 banding 60° to C.A.									
		82.50 banding 60° to C.A.									
		In the lower part of the section, the rocks becomes more felsic and chloritic again.									
86.50	130.25	Keratophyre, (same as 4.17 - 25.35)									
		92.60 - 95.28 felsic chlorite schist (same as 25.35 - 32.90) in the lower 50 cm quite crushed.									
		86.55 - 86.65, 88.80 - 89.00, 96.50 - 96.60,									

DIAMOND DRILL LOG

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FOLLODAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		99.70 - 99.95, 100.43 - 100.75, qtz.									
		105.40: 2 cm 30 % Py in keratophyre.									
		109.50 - 130.25 is mineralized section.									
		The rocks are keratophyre with chlorite									
		layers and some sections with felsic									
		chloritic schist. The best mineralization									
		seems to be in this chlorite schist with									
		layers of near by massive Sl and Py.									
		In the lower part there are also seen nearly									
		massive Po.									
		110.90 - 111.52, 112.90 - 114.20, chlorite									
		schist with Py, Sl and Cpy.									
		112.58, 1 cm with 60 % Cpy.									
		118.45 - 119.50 dark grey to black chlorite									
		schist.									
		120.15 - 130.25, the keratophyre is rather									
		chloritic and Py seems to be changed by Po.									
		There is still seen Cpy < 1 %.									
		26.75 - 28.90, (same as 118.45 - 119.50),									
		with mineralization.									
		106.50 (anding 70 th) C.A.									

FOLLDAL VERK A/S

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Hempel 1963: 85.

DIAMOND DRILL LOG

PAGE 1

FOLLDAL VERK A/S

Drill No.	NS-83-1	Azimuth	225 W	Started	Aug 13	Directional surveys					
Property	Nongsola	Angle	-45° E	Finished	Sept 6/83	Depth	Azim	Dip	Depth	Azim	Dip
Co-ord	L - 200 N	Depth	119.00 m	Logged by	J. Collie						

From	To	Description	Interval		Assays						
			From	To	Cu	Mo	Pb	Zn	Au	Ag	
0.00m	8.50m	Overburden									
8.50	28.70	<u>Banded chloritic rich mafic tuff.</u> - Unit is dark green, somewhat banded from small feldspar + qtz layers + boudins and generally becomes more felsic related down section. + Fuchsite is noticeable with felsic sections at 25.60 and from 26.90 - 27.40 + 28.10 - 28.50. Up to 5-5% fuchsite in chlorite rich layers of felsic tuff. - Minor disseminated Py at top of section at ~ 9.00 m. - Banding at 75 - 80° to C.A.									
28.70	29.80	<u>Rhyolitic flow.</u> Creamy green to whitish with minor flow structures.									

DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 2

From	To	Description	DDH No	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		- May include <u>minor</u> fuchsite.									
		- No visible sulphide seen.									
29.80	46.65	<u>Qtz feldspar graphite schist.</u>									
		- Drill is characteristically									
		dark grey to black with									
		minor banded qtz feldspar									
		sections throughout. Concentration									
		of graphite is higher towards top									
		of section.									
		- Related sulphide disseminated									
		Py and stringer Poj are									
		found throughout, up to 1% Po									
		and Py, and are restricted									
		to graphite rich areas.									
		- Banding generally at 80 - 85°									
		to C.A.									
66.64	119.00	<u>Felsic sericite schist (felsic gneiss)</u>									
		with minor <u>phyllitic zones</u> .									

DIAMOND DRILL LOG

FOLLODAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		- Unit is light grey to whitish, highly sericitic (making it schistose) and very siliceous. Includes small chloritic zones (possible mafic tuff areas) noticeable at 85 - 86.70, 63.50 - 65.10 . - Sulphide is seen in minor amounts as stringer & disseminated Py & Po throughout. Rhyolite zone 86.90 - 88.50 included up to 1% Po = 1% Po disseminations at 88.15 - 88.25. - Possible fault zones located at 95.65, 100.10, 107.75, 117.10 - 118.85 and actual depth of hole may not be exact. -Banding generally at 75 - 85° to C.A although sections are highly folded. Perhaps flow structures.									
119.00		E.O.H.									

DIAMOND DRILL LOG

FOLLODAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays						
				From	To	Cu	Mo	Pb	Zn	Au	Ag	
		- Epidote is found commonly throughout.										
		- No visible sulphide.										
86,00	94,85	Plagioclase, chlorite, sericite schist.										
		- Unit is light green to greyish green and most probably represents an intermediate to felsic fine grained tuff.										
		- Epidote and qtz boudins to common association.										
		- Banding at 70° - 75° to C.A.										
		- No apparent sulphides.										
		- Minor blades of hematite with qtz boudins.										
94,85	95,80	Sub-volcanic gabbro.										
		- Dark green, fine grained with plagioclase.										
		Possible gabbroic dyke with upper and lower contacts at approx 45° to C.A.										
95,80	99,05	Plagioclase chlorite sericite schist.										
		Similar to 86,00-94,85 becoming more felsic towards bottom.										

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STORFLOEN

DIAMOND DRILL LOG

FOLLODAL VERK A/S

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DDH No	51 - 83 - 1	Azimuth	50° N	Started	May 2/83	Directional surveys					
Property	Storfloen	Angle	45° S	Finished	May 4/83	Depth	Azim	Dip	Depth	Azim	Dip
Co-ord	1 - 700 E	Depth	95.50 m.	Logged by	J. Fyllie						

From	To	Description	Interval		Assays						
			From	To	Cu	Mo	Pb	Zn	Au	Ag	
0.00m	15.00m	Overburden.									
15.00	37.90	Qtz - biotite chlorite schist. - Grey green with alternating bands of biotite and possibly sericite. Chlorite sections may be more volcanic orientated. - No visible sulphides. - Banding at 75° to C.A. Section becomes more mafic or chloritic towards bottom.									
37.90	48.30	Massive mafic flow. (late carbonate section) - Dark green to light black. Massive and shows greasy feel. (late). Minor Fe-chlorite along fractures. - No visible sulphides.	38.00m	41.00m							
			41.00	44.00							
			44.00	47.00							

DIAMOND DRILL LOG

51-83-1

FOLLDAL VERK A/S

Storfløen

PAGE 2.

From	To	Description	DDH No.	Interval		Assays						
				From	To	Cu	Mo	Pb	Zn	Au	Ag	
40.50m	65.10m	Leucocratic fine grained Gabbro		3800 m	3900 m	200.		12	60.0	<2		
		- Fresh appearance, light grey		3900	4000	85.0		12	55.0	<2		
		green, fine grained. Highly		4000	4100	78.0		10	55.0	5		
		chloritized along fractures.		4100	4200	62.0		18	55.0	18		
		- No visible sulphide concentration,		4200	4300	76.0		24	44.0	18		
		- Qtz biotite schist along bottom		4300	4400	65.0		12	51.0	<2		
		of section from 61.85 - 65.10.		4400	4500	110.		10	74.0	8		
				4500	4600	110.		14	57.0	<2		
65.10	80.50	Massive graphite argillites		4600	4700	160.		10	120.	<2		
		- Dark grey to black with stringers		6510	6610	380.		44	260.	5		
		and patches of pyrrhotite throughout.		6610	6710	570.		54	520.	19		
		Up to 10% Pb. with trace Py.		6710	6800	520.		74	420.	100		
		Spotted appearance is from fine		6800	6900	450.		62	280	44		
		grained garnets.		6900	7000	570.		52	190	27		
				7000	7100	400.		46	250	27		
80.50	95.50	Qtz biotite chlorite schist.		7100	7200	250.		40	200	5		
		- Similar to previous unit at 15.00		7200	7300	480.		50	200	41		
		- 57.90.		7300	7400	220.		18	180.	900		
		- No visible sulphides.		7400	7500	510		50	200.	15		
		- Layering at 80 ⁰ to F.A.		7500	7600	390.		44	550.	28		
	95.50	F.O.R.		7600	7700	520		28	240	15		
				7700	7800	280.		20	220.	6		
				7800	7900	570.		28	240.	10		
				7900	8050	560		40	520	24		

MOSEN/4

DIAMOND DRILL LOG

FOLLDAL VERK A/S

PAGE 1

D.H. No.	80-85-1	Azimuth	100 N	Started	May 25/83	Directional surveys							
Property	Wosenf	Angle	45° S	Finished	May 27/83	Depth	Azim	Dip	Depth	Azim	Dip		
Coord	1-300 E	Depth	150.00 m	Logged by	G. Bakke R. Silberg								
From	To	Description				Interval		Assays					
						From	To	Cu	Mo	Pb	Zn	Al	Ag
0.00	3.60	Overburden											
3.60	144.55	Carbonate bearing chlorite schist.											
		Green-grey with folded layers of qtz and feldspar.											
		Tr. of disc. po, py and cpy. in connection with											
		qtz segregations. Probably a mafic tuff with smaller											
		sections of green-schist. mafic flows at 8.80-9.80,											
		30.90-31.00, 87.90-88.30, 124.40-123.30, 135.00-140.00,											
		Bands of po (20% po) at 49.60 to 49.80.											
		Section with bands of po (up to 2 cm thick) from											
		66.30 to 70.30.											
		5 cm thick bands of graphitic schist are found at											
		72.30 and 74.30.											
		Big garnets(5 mm) and hornblende are found from											
		55.40 to 55.80.											
		More felsic rocks from here (55 m).											
		Carbonate layers with spotted qtz from 100.20 to 100.40											
		and from 101.45 to 101.00.											
		Less banded from 81.00 m.											

FOLLODAL VERK A/S

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DIAMOND DRILL LOG

FOLLDAL VERK. A/S

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PORTAL VERG. 8/3

D.D.H. No.	Nov-83-2	Azimuth	75 E	Started	Nov 17/83	Directional surveys					
Property	Hordervolle	Angle	45° E	Finished		Depth	Azim	Dip	Depth	Azim	Dip
Co-ord.	1 - 2250 N	Depth	155.90 m	Logged by	G. Bakke R. Wilberg						

From	To	Description	Interval		Assays						
			From	To	Cu	Mo	Pb	Zn	Au	Ag	
0.00	3.50	Overburden.									
3.50	9.90	Greenstone (mafic flow).									
		Massive and schistose sections with thin bands and lenses of feldspar and qtz. 60° to 2.A. More felsic toward the end of section.									
		No visible sulphides.									
9.90	18.00	More felsic tuff.									
		Greygreen, fine grained. Bands of carbonate, qtz and feldspar. 45° to 2.A.									
		Idiomorphic crystals (up to 5 mm) and thin bands (less than 1 mm) of Py, and traces of Po in the end of section. In some sections of 10 cm, up to 3% Py.									
		Agglomerate (greygreen) from 17.20 to 18.00 with diss. Po.									
18.00	29.60	Gabbro.(?)									

DIAMOND DRILL LOG

FOLLODAL VERK A/S

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From	To	Description	DDH No.	Interval		Assays					
				From	To	Cu	Mo	Pb	Zn	Au	Ag
		Coarse grained. With feldspar porphyries.	Nov-80-02								
		Traces of Py.									
29.60	40.95	Carbonaceous chlorite schist.									
		Light banded (mm-scale) with stz,									
		Feldspar and carbonates. stz/carbonate									
		segregations are found.									
		- Min : Diss. Py are found throughout,		35.20	37.20	130.		16	120.0	< 2	
		but more common from 35.20 to 40.95.		37.20	38.20	230.		16	120.	5	
		More mafic against the end of section.		38.20	39.20	170.		24	120.	< 2	
40.95	42.80	Ironblende.		39.20	40.20	90.0		24	40.	< 2	
		Medium - coarse grained.									
42.80	53.70	Greenschist.		45.45	47.45	230.		14	> 500.	30	
		With traces of Fe and py.		47.45	48.45	150.		20	1200.	30	
		48.45 - 49.20 : More stz rich sequence		48.45	49.45	270.		85	> 4000.	41	
		with 1 - 2 stz (richer in cm-bands).		49.45	50.45	410.		120	3100.	150	
		Traces of Fe and Cpy in connection with		50.45	51.45	130.		210	2100.	31	
		qtz segregations.		51.45	52.45	1200.		12	210.	38	
		Schistosity at 20° to 30° S.A.		52.45	53.45	130.		8	210.	29	
		More banding towards end of section.		53.45	54.45	600.		2	570.	43	
53.70	155.90	Greenstone (basaltic flow).		54.45	55.45	150.		10	> 4000.	15	
				55.45	56.45	180.		50	730.	20	

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DIAMOND DRILL LOG

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DIAMOND DRILL LOG

FOLIOAL VERK A/S

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From	To	Description	Interval		ANALYSIS					
			From	To	CL	ME	PL	Zn	Au	Ag
		DDH-BM2-83/SA TANDITY								
		of nearly massive greenschist, contacts								
		to textured variations are always								
		gradational								
		Min : Py as idio. crystals of 1 to 3 mm								
		size sporadically embedded								
		19.00-20.00: core missing								
		19.50-32.45: core missing								
		72.10-72.22: carbonate band								
		72.22-72.72: distortion zone								
		small scale zickzack folding,								
		in places disharmonic								
		80.00-81.45: talcky chlorite schist								
		81.45-84.00: Fe,Py mineralisation								
		lamina, stringers and disc.								
		accumulations often in								
		carbonate bands								
		90.00-100.00: greenschist								
		gn, homogeneous, some flasers, stringers								
		and bands of carbonate, schist. 80° cax								
		100.00-126.50: carbonaceous chlorite schist								
		same as 11.00-90.00								
		115.50-116.00: core missing								

DIAMOND DRILL LOG

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Va-84-01

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Va-84-01

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FOLDAL VERRAIDS

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From	To	Description	Core No.	Interval		Assays						
				Fl. m	To	Cu	Mn	Pb	Zn	Au	Ag	
		sections, Qtz - carbonate band :	Va-84-01									
		44.15 - 44.40. Sometimes a cumulates of chlorite - actinolite.										
		48.65 - 48.75 : Keratophyre.										
		- Small Py - diss. continues.										
50.00	83.20	Actinolitebearing carbonate-rich chlorite schist. (Basaltic tuff). light green. Medium grained. Lenses and stringers of carbonate, and small Qtz eyes. Greenschist at 50.35 - 50.60 and 51.55 - 51.65. 80° to C.A. - Small Py-diss. continues, specially around 52.70 - 52.85, 55.40 - 55.50, 57.00 - 57.40, 58.35 - 59.10, as idiomorphic crystals up to 2 - 3 mm. and irregular bands (13). - At 60.60 - 60.70 some diss. Po, Py and Spy are seen, mostly Po but 2 - 3 % together.										

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DIAMOND DRILL LOG

FOU DAL VERN A/S

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