



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 3460	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Nordland	Gradering
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Tittel BP NORGE A/S MINERALS Helgeland Project 1983 Annual Report				
Forfatter		Dato 1983	Bedrift BP Norge Minerals	
Kommune	Fylke Nordland	Bergdistrikt Nordlandske	1: 50 000 kartblad	1: 250 000 kartblad
Fagområde	Dokument type	Forekomster		
Råstofftype	Emneord			
Sammendrag				

Quotta H 30/1-86
Clt

I N T R O D U C T I O N

This report concerns the results of the 1983 follow-up of stream sediment anomalies detected in the Helgeland area during the 1982 reconnaissance programme. In all 168 anomalous stream systems with detectable gold concentrations were delineated during the reconnaissance programme. These areas were claimed on behalf of the Joint Venture and were the objects of the detailed follow-up during 1983. The follow-up procedure was directed towards a verification and greater definition of the original anomaly by close-spaced follow-up stream sediment sampling along the drainage in order to detect the bedrock sources. The sampling, preparation of samples and analysis remained unchanged so that all analytical results are directly comparable.

Field work started in early June and continued through to the end of September. On the average, four follow-up teams were at work at any one time. The 168 original follow-up targets were grouped into a number of blocks according to their regional geological setting and care was taken that these blocks were followed up by one team such that consistency in the reporting and comparability of the results was ensured.

The follow-up always began with the resampling of the original sample point - which in the majority of anomalies was possible due to the careful marking of sample stations in 1982. The drainage system was then followed upstream and samples collected in 250-500m interval dependent on the variability of the geology. All tributaries entering the main stream were sampled individually and the following parameters recorded for each sample station:

- UTM co-ordinates
- Altitude
- Collection date
- Team initials
- Sample type
- Sample location (River bed, bank etc)
- Sediment colour
- Sediment composition (grain-size distribution)
- Sample weight
- Contamination

In addition the number of the follow-up block - corresponding to the two letters forming part of the sample number, the claim number and the complete (6-digit) map sheet number (1:50.000) were entered at specific locations under field comments. This measure allows sorting of field and analytical data and subsequent statistical analysis with the DEC Rainbow 100 micro computer if necessary.

Slope angles and the appearance of the stream (i.e. meanders, waterfalls, rapids, potholes) were numerically coded and entered at other specific locations under field comments, so that any correlation between gold anomalies and the morphology of the stream section will be detected by regression analysis.

The follow-up teams were carefully instructed to describe the nature of the drainage system including the kind of overburden, slopes, tributaries and vegetation cover. They were also requested to record the geology at the sampling stations and to pay special attention to any signs of hydrothermal alteration and for mineralization such as:

- stockwork features
- silicification
- dolomitization
- carbonitization
- sericitization
- kaolinization
- chloritization
- hematization
- serpentization
- texture destruction
- pervasive alteration
- veining
- shearing
- mylonitization
- brecciation

All field parameters and corresponding analytical results were key-punched and copied to floppy discs ready to process on the DEC 100 Rainbow micro computer.

The following report describes the field observations and geochemical results for each individual claim. Each claim is described separately and is accompanied by a location map in scale 1:20.000 showing sample locations, analytical results for gold, arsenic, tungsten, copper, lead and zinc. A sketch of the geology of the more interesting claims is shown on overlays.

Gold anomalies are designated by coloured stickers with the actual concentration value shown in ppb Au. The colours stands for any gold found in the sample in concentrations equal or less to the detection limits which is dependent on the sample weight. Yellow covers gold anomalies which are clearly above the detection limit up to 100ppb and red symbols designate anomalies above 100ppb Au.

The remaining elements are typed in form of results. A block with the sample no. appearing on the top, the Cu, Pb, Zn values in the left column and As, W in the right column:

BK 1001	
13 (ppm Cu)	7 (ppm As)
43 (ppb Pb)	15 (ppm W)
103 (ppm Zn)	

All individual anomaly descriptions appear ordered after map sheets starting in the north-west corner of the exploration area and continuing in the form of a meander towards the south.

RESULTS OF BULK ROCK SAMPLE ANALYSES

SAMPLE NO.	CLAIM	Au	Cu	Pb	Zn	Ag	As	Sb	Hg	W
0300FL0001			78	20	149	<1	8	<1	3	<1
0305FM0001			54	2	8	<1	<1	<1	6	<1
0305FM0002			67	0	21	<1	<1	<1	<1	<1
0305FM0003		20	59	22	30	<1	<1	<1	<1	<1
0305FM0004			5	4	15	<1	55	<1	1	<1
0305FM0005		30	7	18	15	<1	38	<1	<1	<1
0305FM0006		10	0	1	1	<1	<1	<1	3	<1
0300HO3001	Holm-not claimed		93	6	28	<1	165	<1	4	1
0300HO3002	Holm-not claimed		23	121	722	1	48	<1	2	2
0300HO3003	Holm-not claimed		18	266	588	1	57	<1	2	2
0300HO3004	Holm-not claimed		19	136	564	<1	44	<1	2	2
0300HO3005	Holm-not claimed	25	25	680	940	2	<10000	8	<1	5
0300HO3006	Holm-not claimed	40	62	1720	2800	3	2300	<1	2	2
0300HO3007	Holm-not claimed	30	39	2400	656	6	173	<1	3	3
0300HU4072	10 Nubmarken		24	6	8	<1	4	<1	<1	<1
0300HU4080	10 Nubmarken		30	14	124	<1	3	<1	<1	<1
0300KD5001	114 Holmtjern	34	3005	18	147	3	8	<1	3	<1
0300KD6006	144 Holmvatn	23	39	6	407	<1	31	<1	3	1
0300KD6007	144 Holmvatn		85	12	79	<1	20	<1	5	5
0300KD6010	144 Holmvatn	27	237	18	83	1	14	32	2	<1
0300LV4003	95/96 Langvatnet	25	2900	10	79	1	28	4	<1	<1
0300MA5001	132 Mellingen		175	26	147	<1	<1	<1	<1	<1

RESULTS OF BULK ROCK SAMPLE ANALYSES

SAMPLE NO.	CLAIM	Au	Cu	Pb	Zn	Ag	As	Sb	Mo	W
0300M00001			128	8	48	2	7	<1	8	<1
0300M01002	106 Bydalen		56	16	64	<1	<1	<1	1	<1
0300M01003	106 Bydalen		60	13	34	<1	<1	<1	2	<1
0300M01004	108 Hatten II		19	24	18	<1	2	<1	<1	<1
0300M01004	108 Hatten II		21	25	19	<1	1	<1	<1	<1
0300M01005	108 Hatten II		95	15	66	<1	<1	<1	1	1
0300M01005	108 Hatten II		53	25	15	<1	14	<1	1	<1
0300N03001A		1860	31	10	64	<1	9482	<1	<1	2
0300N03001B		444	40	8	47	<1	8635	<1	2	2
0300N03002	169 Vasbotn	37	37	16	98	1	6	<1	1	<1
0300N03003	169 Vasbotn	29	39	12	99	<1	8	<1	2	<1
0300N03004	169 Vasbotn		40	10	114	<1	3	<1	2	<1
0300N03005	169 Vasbotn		56	10	118	<1	5	1	1	<1
0300N03006	169 Vasbotn	12	56	8	113	<1	12	<1	1	<1
0300N03007	169 Vasbotn	33	48	12	101	<1	185	<1	1	<1
0300N03008	169 Vasbotn	16	42	8	87	<1	9	<1	1	<1
0300N03009	169 Vasbotn		32	16	90	<1	5	<1	2	<1
0300N03010	169 Vasbotn		52	21	112	<1	3	<1	<1	<1
0300N03011	169 Vasbotn		33	20	479	<1	3	<1	<1	<1
0300N03012	169 Vasbotn		16	16	98	<1	6	<1	<1	<1
0300N03013	169 Vasbotn		81	96	388	<1	473	<1	4	2
0300N03014	169 Vasbotn		75	23	50	<1	138	<1	4	3
0300N03015			86	44	74	<1	211	<1	3	<1
0300N03016A			37	25	38	4	28	<1	2	<1
0300N03016B			42	19	82	<1	28	<1	1	<1
0300N03016C			42	19	98	<1	62	<1	1	<1
0300N03017A			157	34	96	<1	33	<1	2	<1
0300N03017B			95	21	70	<1	14	<1	2	2
0300N03018			26	86	20	1	55	<1	2	2
0300N03019			35	17	38	<1	319	<1	3	3

RESULTS OF BULK ROCK SAMPLE ANALYSES

SAMPLE NO.	CLAIM	Au	Cu	Pb	Zn	Ag	As	Sb	Mo	W
0300RF2013	68/69 Sør-Svartvatnet		265	8	160	1	<1	<1	<1	<1
0300RF3001	68/69 Sør-Svartvatnet		106	28	117	1	7	<1	1	1
0300RV0001	Råvatn	19	301	>10000	>10000	53	1	<1	<1	2
0300RV0002			373	>10000	>10000	80	163	<1	2	<1
0300RV0003			508	>10000	>10000	90	4	10	<1	1
0300RV0004			66	2245	>100000	14	<1	5	<1	<1
0300RV0005			80	>10000	>100000	60	<1	9	<1	<1
0300RV0006			38	>10000	>10000	4	<1	9	<1	<1
0300RV0007			562	>10000	>100000	12	1	16	<1	1
0300RV2003	17 Rauvatnet	40	64	140	1280	<1	2990	<1	2	5
0300RV2004	17 Rauvatnet		33	56	372	<1	6	<1	1	1
0300RV2005	17 Rauvatnet		770	44	88	<1	6	<1	2	1
0300RV2006	17 Rauvatnet	2220	77	48	64	<1	7280	<1	<1	4
0300RV6105	17 Rauvatnet	1450	13	39	134	<1	>10000	15	2	9
0300RV6106	17 Rauvatnet	910	11	16	22	<1	>10000	12	4	3
0300RV6107	17 Rauvatnet		12	15	17	<1	240	<1	1	1
0300SF3001	51 Sørfjorden		83	5	24	8	2	<1	1	1
0300SF3002	51 Sørfjorden		69	20	77	11	<1	<1	1	1
0300SK3001	45 Grøndalen	2200	1275	43	60	1	<1	<1	2	2
0300SK3002	45 Grøndalen	25	84	32	34	<1	2	<1	1	2
0300SK3003	45 Grøndalen		67	33	39	<1	3	<1	1	2
0300SM5001	58 Stormarken		27	16	22	<1	68	<1	3	2

RESULTS OF BULK ROCK SAMPLE ANALYSES

SAMPLE NO.	CLAIM	Au	Cu	Pb	Zn	Ag	As	Sb	Hg	W
0300TE4012	31 S. Vesterdalselven		9	43	30	<1	22	5	<1	<1
0300TE4014	31 S. Vesterdalselven		28	51	164	<1	4	<1	<1	<1
0300TE4015	31 S. Vesterdalselven		1760	31	144	<1	36	<1	2	<1
0300TE4016	31 S. Vesterdalselven		42	26	64	<1	15	<1	2	1
0300TN3001	49 Sørenskogvand		260	48	224	2	<1	<1	<1	<1
0300TN3002	49 Sørenskogvand		872	28	226	3	144	<1	18	1
0300TN3003	49 Sørenskogvand		548	26	326	5	116	<1	36	1
0300TN3004	49 Sørenskogvand		235	32	288	1	334	<1	11	1
0300VE9901	Eiterakroken	390	6000	>10000	>10000	>200	145	155	1	2
0300VE9902	Eiterakroken		113	680	86	3	114	<1	5	1
0300VE9903	Eiterakroken		176	112	114	<1	15	<1	2	1
0300VE9904	Eiterakroken		56	5200	3600	36	86	9	3	4
0300VE9905	Eiterakroken	500	456	4460	>10000	23	5910	<1	1	7
0300VE9906	Eiterakroken		125	26	581	<1	7	<1	2	1
0300VE9907	Eiterakroken		6120	1.5%	1.5%	8	10	<1	1	1
0300VE9908	Eiterakroken		158	244	254	<1	8	<1	3	2
0300VE9909	42 Søndalen 11 Husvik	100	2610	3.8%	6.5%	52	1450	<1	1	257
0300VE9910	42 Søndalen 11 Husvik	176	1180	2.9%	1.7%	36	>10000	<1	<1	2
0300VE9911	42 Søndalen 11 Husvik		99	5.6%	6800	76	119	15	2	2
0300VE9912	42 Søndalen 11 Husvik		165	4.9%	9.7%	20	>10000	48	<1	2
0300VE9913	42 Søndalen 11 Husvik		29	3.9%	11.3%	16	486	87	3	1
0300VE9914	42 Søndalen 11 Husvik		32	2.1%	4.6%	11	306	75	3	1
0300VE9915	42 Søndalen 11 Husvik		2040	10.9%	2.7%	275	16	150	1	1
0300VE9916	42 Søndalen 11 Husvik		1250	3400	13.6%	9	4	<1	2	1
0300VE9917	42 Søndalen 11 Husvik		395	900	9.5%	2	9	<1	1	1

RESULTS OF BULK ROCK SAMPLE ANALYSES

SAMPLE NO.	CLAIM	Au	Cu	Pb	Zn	Ag	As	Sb	Mo	W
0300VF4011	8,12,56,104*		5	68	16	<1	3	<1	<1	<1
0300VF4012	8,12,56,104	24	7	62	66	<1	<1	<1	<1	<1
0300VF4015	8,12,56,104	6	53	23	<1	<1	<1	<	<1	<1
0300VV3001	32 Vestfjeldene		1420	12	260	1	<1	<1	5	<1

* 8 Trangdalen

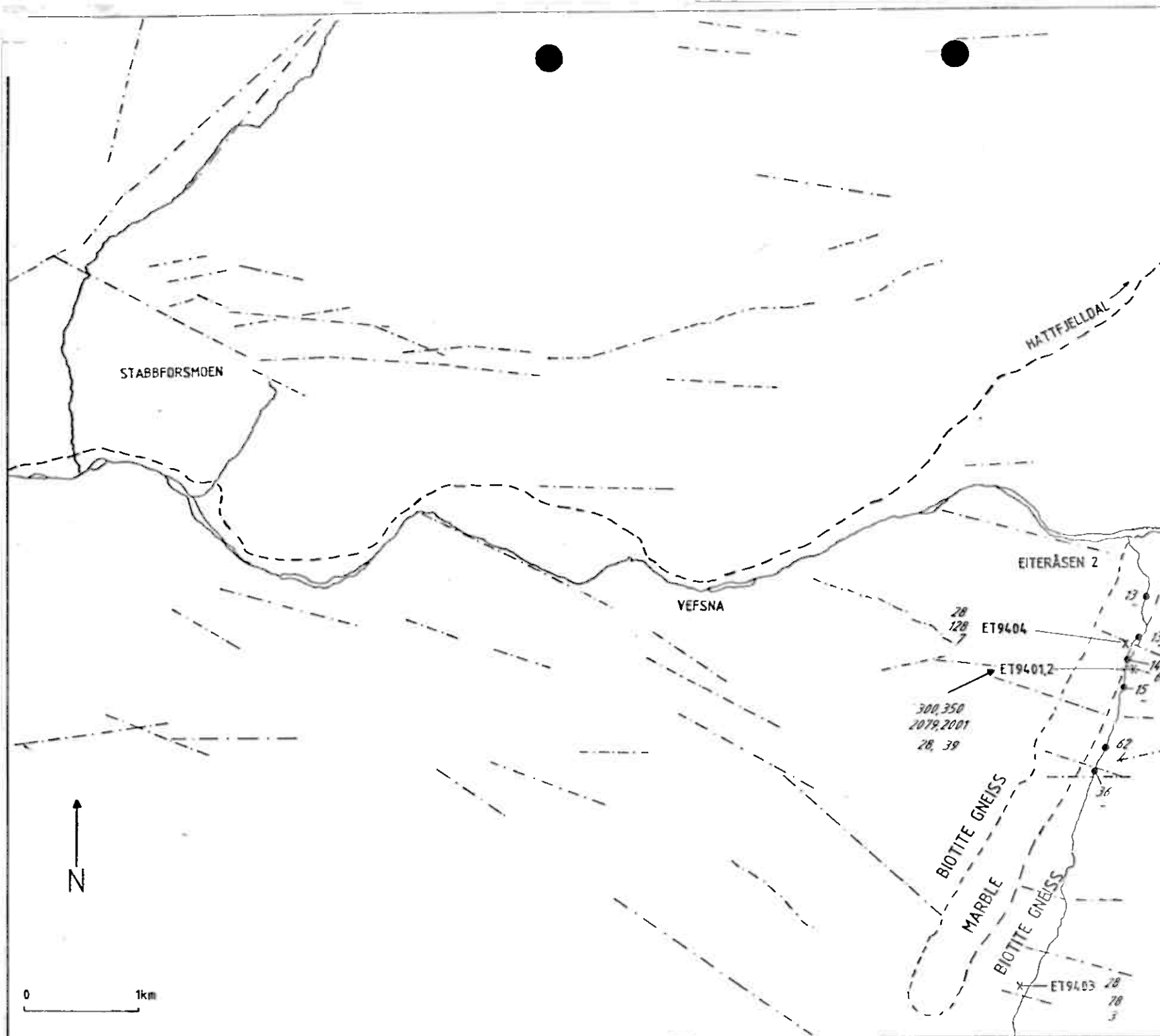
12 Livatn

56 Trangdalen B

104 Støttfjelldet

RESULTS OF BULK ROCK SAMPLE ANALYSES

SAMPLE NO.	CLAIM	Au	Cu	Pb	Zn	Ag	As	Sb	Mo	W
0300AD4001	125 Herringbotn		724	445	430	1	<1	<1	1	<1
0300AD4002	125 Herringbotn		688	859	2060	2	<1	<1	8	<1
0300AD4003	125 Herringbotn		N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
0300AD4004	125 Herringbotn		167	20	90	<1	<1	<1	1	<1
0300AD1002	122 Almdalen 'A'		112	13	104	2	<1	<1	3	<1
0300AD1003	122 Almdalen 'A'		65	55	19	10	<1	<1	3	1
0300BK0001	118 Storvik		7	13	16	<1	<1	<1	<1	<1
0300BK0002	118 Storvik		40	10	124	<1	<1	<1		<1
0300BK0003	118 Storvik		14	15	78	<1	<1	<1	<1	<1
0300BK0004	118 Storvik	37	31	16	4	<1	<1	<1	1	3
0300BK0005	118 Storvik		6	10	12	<1	<1	<1	<1	<1
0300BK0006	118 Storvik		54	4	5	<1	<1	<1	<1	<1
0300BK1001	117 Bjorknes		25	25	24	<1	7	<1	<1	<1
0300BK1001	117 Bjorknes		18	38	14	<1	<1	<1	1	<1
0300BK1002	117 Bjorknes		42	7	72	<1	<1	<1	1	6
0300E10001	Not claimed		41	16	3	<1	3	<1	<1	1
0300E10002	Not claimed		24	15	3	<1	5	<1	<1	<1
0300E10003	Not claimed		22	14	5	<1	14	<1	<1	<1
0300E10004	Not claimed		11	13	4	<1	2	<1	<1	<1
0300E10006	Not claimed		8	6	2	<1	<1	<1	<1	3
0300E10007	Not claimed		82	14	5	<1	9	<1	29	2
0300E10008	Not claimed		46	23	3	<1	4	<1	<1	<1
0300E10009	Not claimed		48	27	5	<1	3	<1	1	<1
0300FF2001	8 Stormoen		22	26	28	<1	<1	<1	1	2
0300FF2002	8 Stormoen		19	35	22	<1	<1	<1	1	1
0300FF2003	8 Stormoen		198	1259	3039	4	9	<1	1	3
0300FF2004	22 Stabfjoramoen		30	82	180	<1	31	<1	3	1
0300FF2005	22 Stabfjoramoen		1530	22	86	<1	3	<1	4	2
0300FF2006	22 Stabfjoramoen		2920	32	180	<1	<1	<1	5	1



--- FRACTURE

x ROCK SPL.

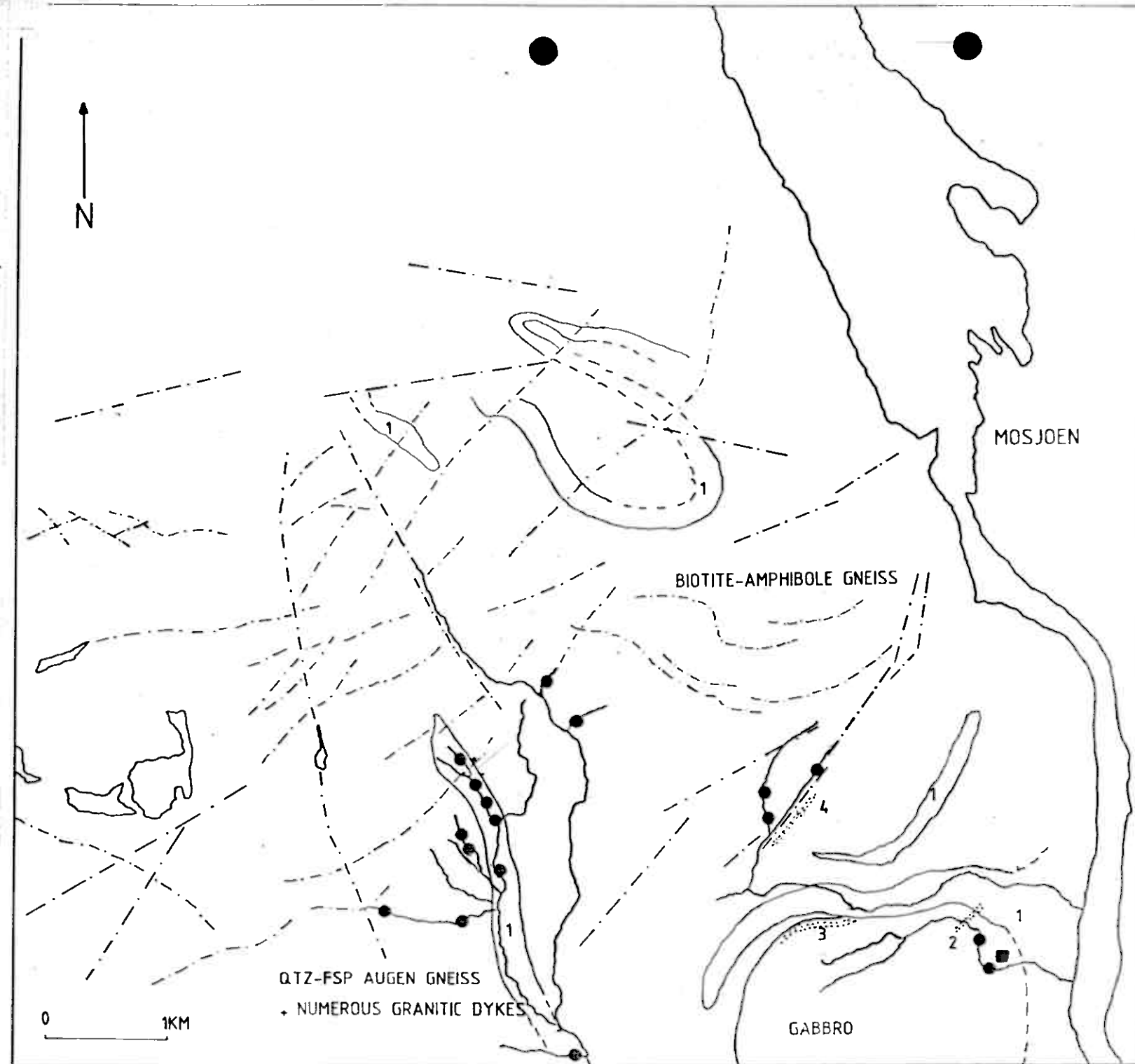
• STREAM SED. SPL.

350 PPB Au
2001 PPM As
39 PPM Bi

BP BP NORGE as Minerals

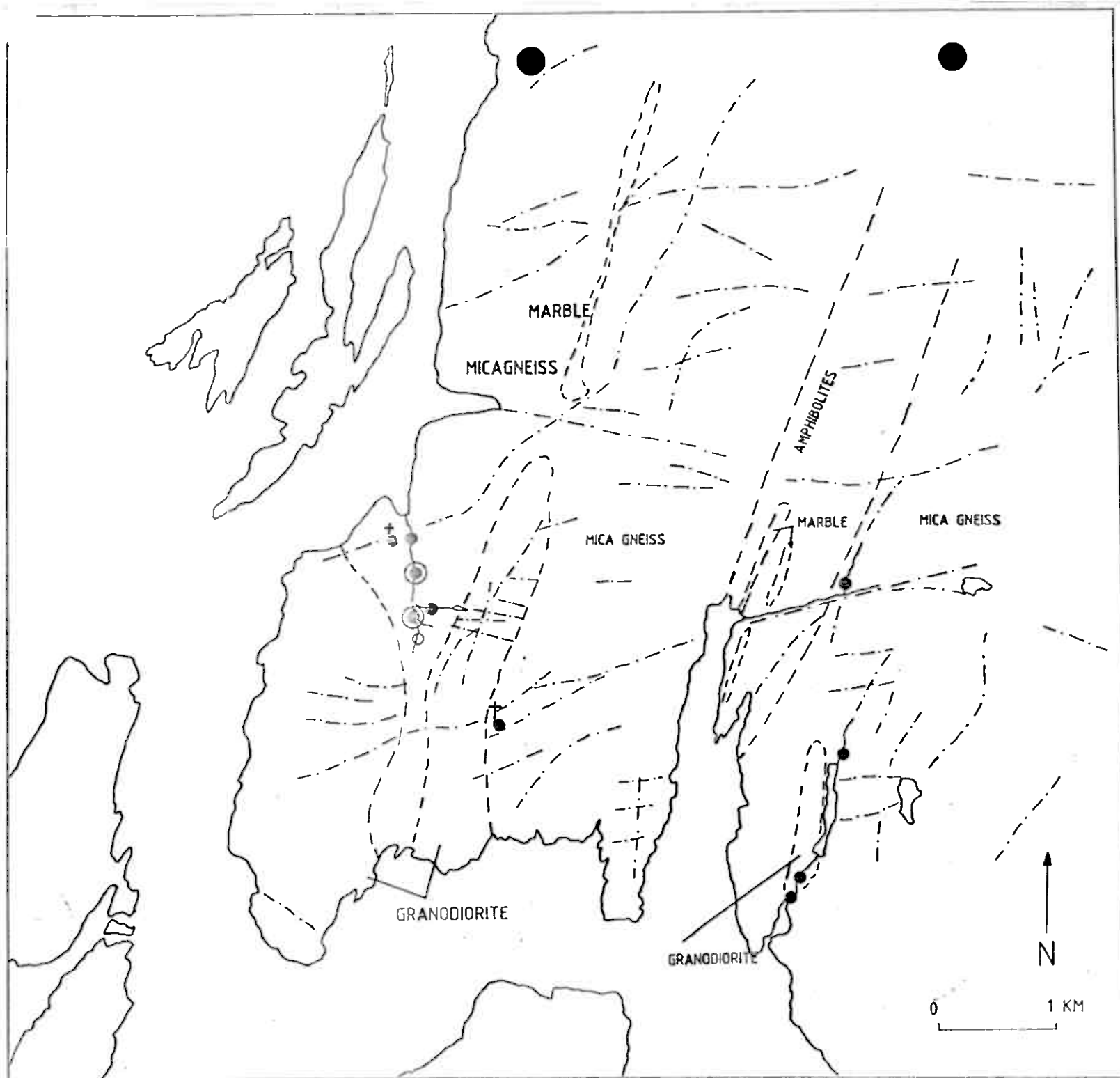
EITERÅSEN 2
STRUCTURES, SAMPLE LOC.

Sheet 11	Drawn by J.T	Date
Scale 1:40 000	Report No.	Drawing No.



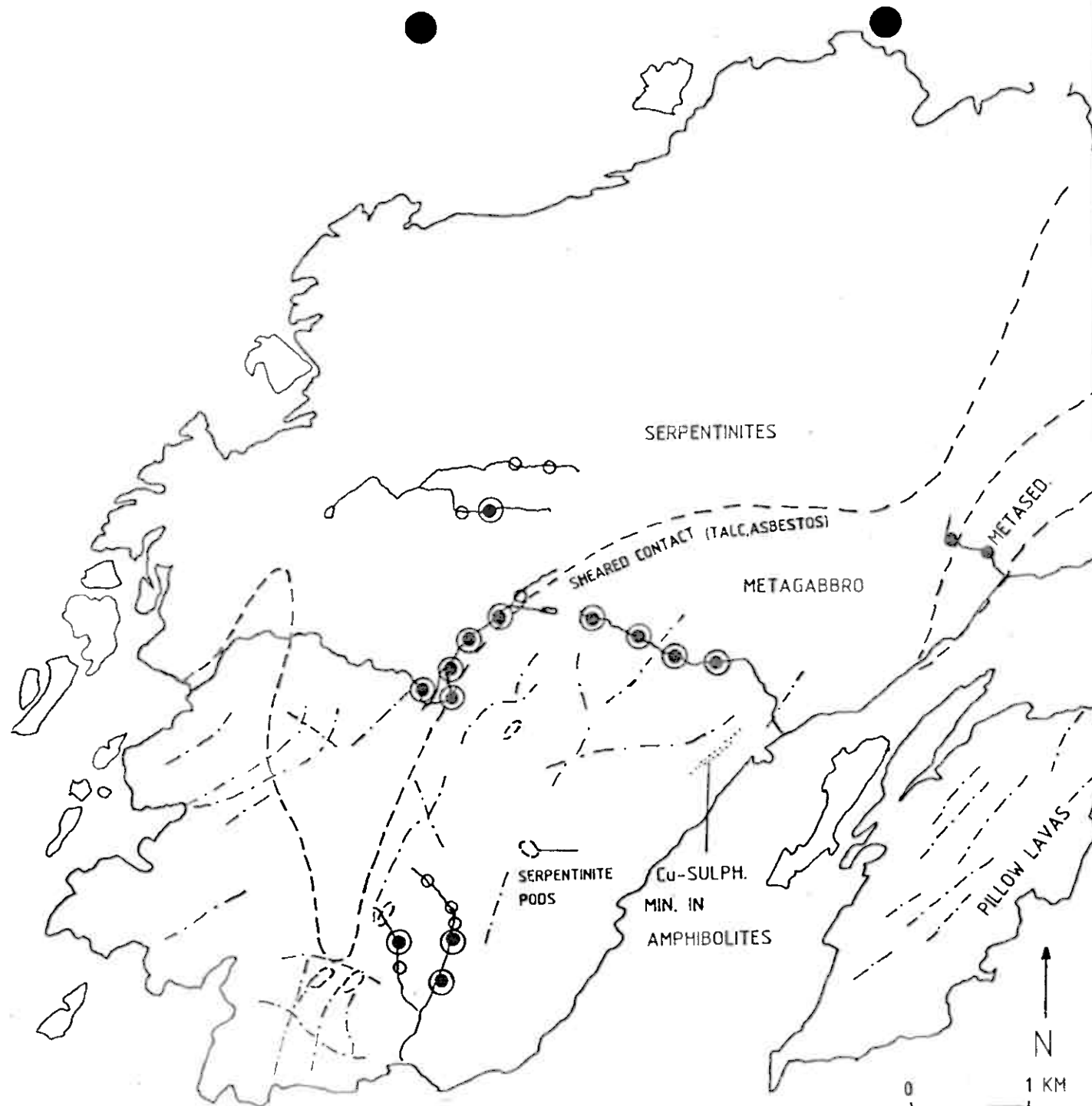
- Au IN STREAM SED,
- Au IN SOIL
- 1 METASED. PRED. MARBLE
- 2 TOURMALINE FRACTURE
- 3 SKARNING
- 4 SULPHIDE BEARING FRACTURE

EP BP NORGE as Minerals		
HATTEN		
STRUCTURES, ANOMALIES		
Author J.T	Checked by J.T	Date
Scale 1:40000	Report No.	Drawing No.



- † Zn -Pb OCCURENCE
- Au ANOMALY
- ⊙ COMBINED Au,As ANOMALY
- As ANOMALY

BP BP NORGE a.s Minerals			
SÖRDALEN, HUSVIKA			
GEOLOGY, ANOMALIES			
(AREAL PHOTO 0000)			
Author J.T.	Drawn by J.T.	Date	
Scale 1:40000	Report No.	Drawing No.	

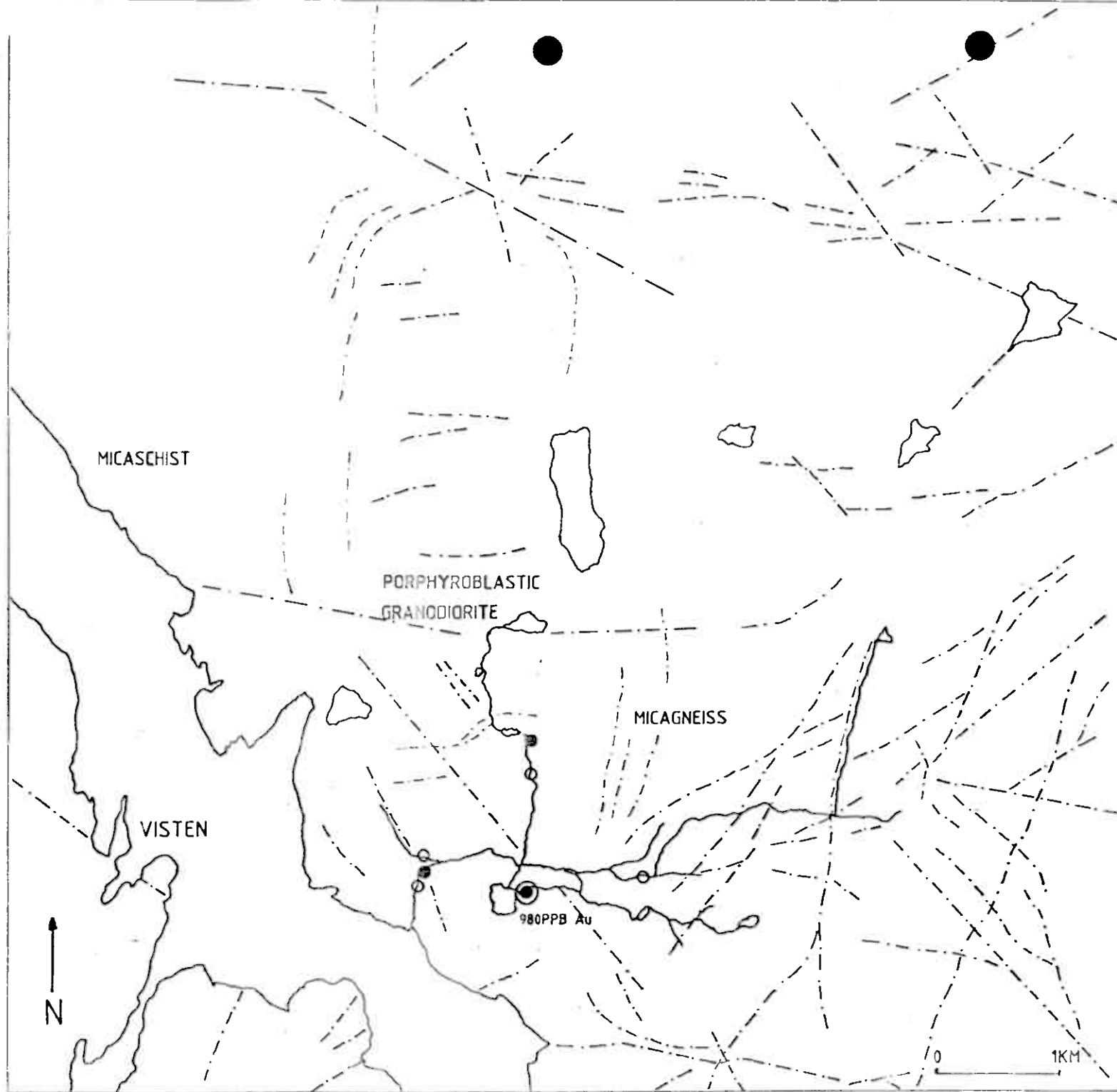


BP BP NORGE as Minerals

LEKA

GEOLOGY, ANOMALIES

Author J.T.	Drawn by J.T.	Date
Scale 1:50000	Report No.	Drawing No.



- Au ANOMALY
- ⊙ COMBINED Au,As ANOMALY
- As ANOMALY

BP BP NORGE a.s Minerals

NEDRE KVANLIVATN
STRUCTURES, ANOMALIES
(AREAL PHOTO F013)

Author J.T	Drawn by J.T	Scale
Scale 1:40000	Report No	Drawing No

1906a

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: **Vestvagen** No: 9 Size: 4.0 km²

Claim location: Map sheet 1826 IV Tjotta, 1826 I Mosjoen

:Air Photo c 009,010,011

:Okø Kart DJ 183 IV

Pegged: Yes---No Partly Claim retained: yes/No

Stream length: 1.0 km/ Drainage area: 1.0 km²

Original sample points (39,9,79,16ppb Au) resampled: Yes No

Follow up team: OK/GT/AK Duration: 3.0 days

Nos. of follow up sample: HU 4032 - HU 4048

Description of drainage system:

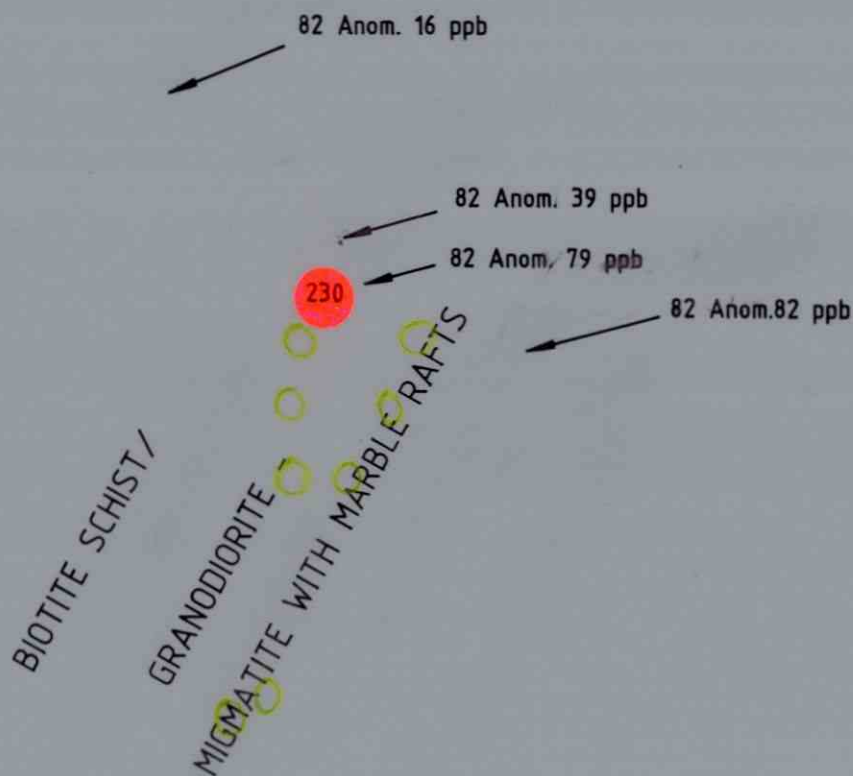
The four anomalous streams drain a plateau on Kjerringlifjeldet. All streams emerge from swamps and small lakes and descend via steeper slopes and exposed bedrock into farmland and pasture.

Geology:

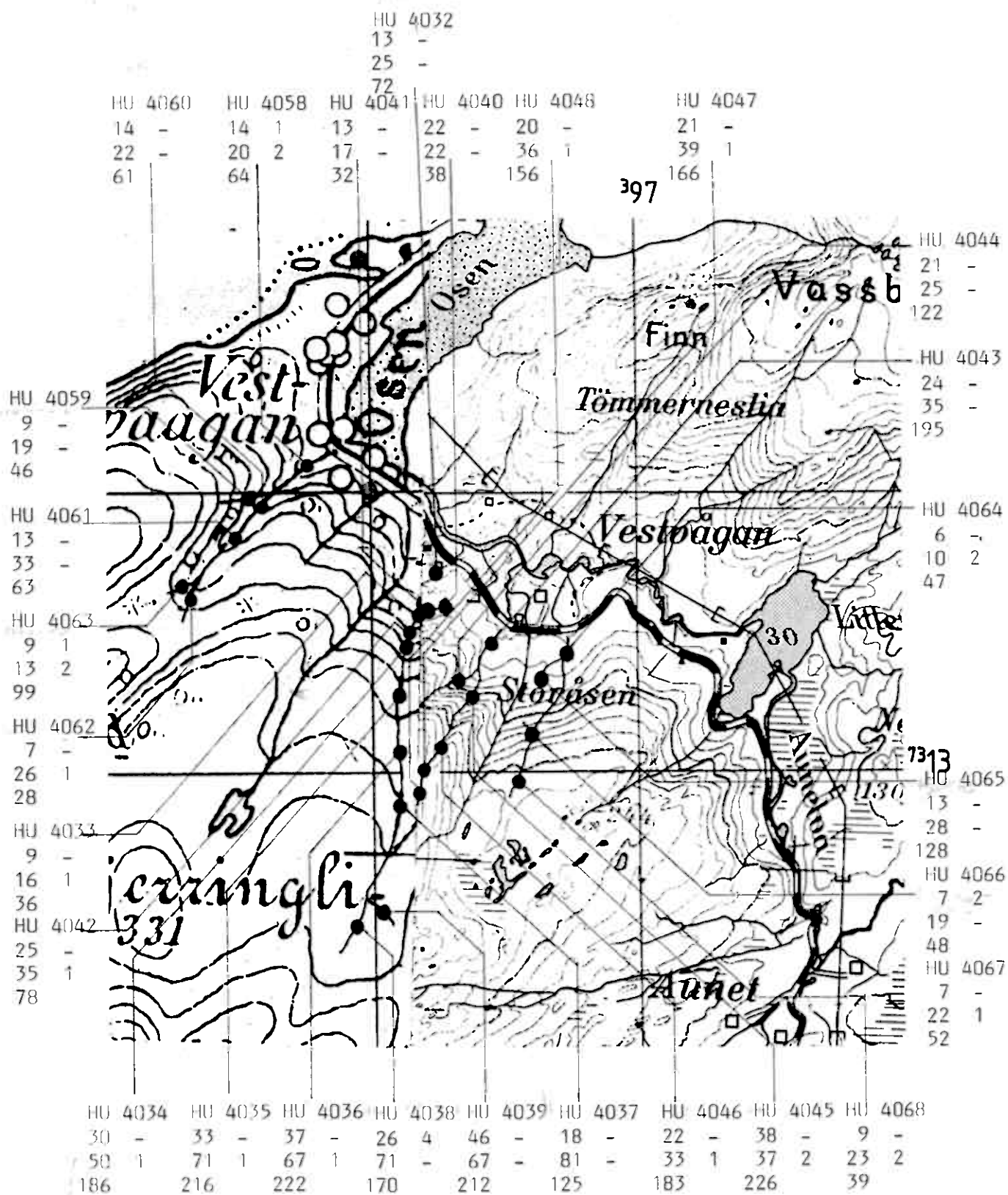
The main lithologies are granodiorite, partly porphyritic and a biotite rich mica schist. Locally a migmatite of these two rock types can be observed. Small outcrops and lenses of marble were found throughout the area.

Comments:

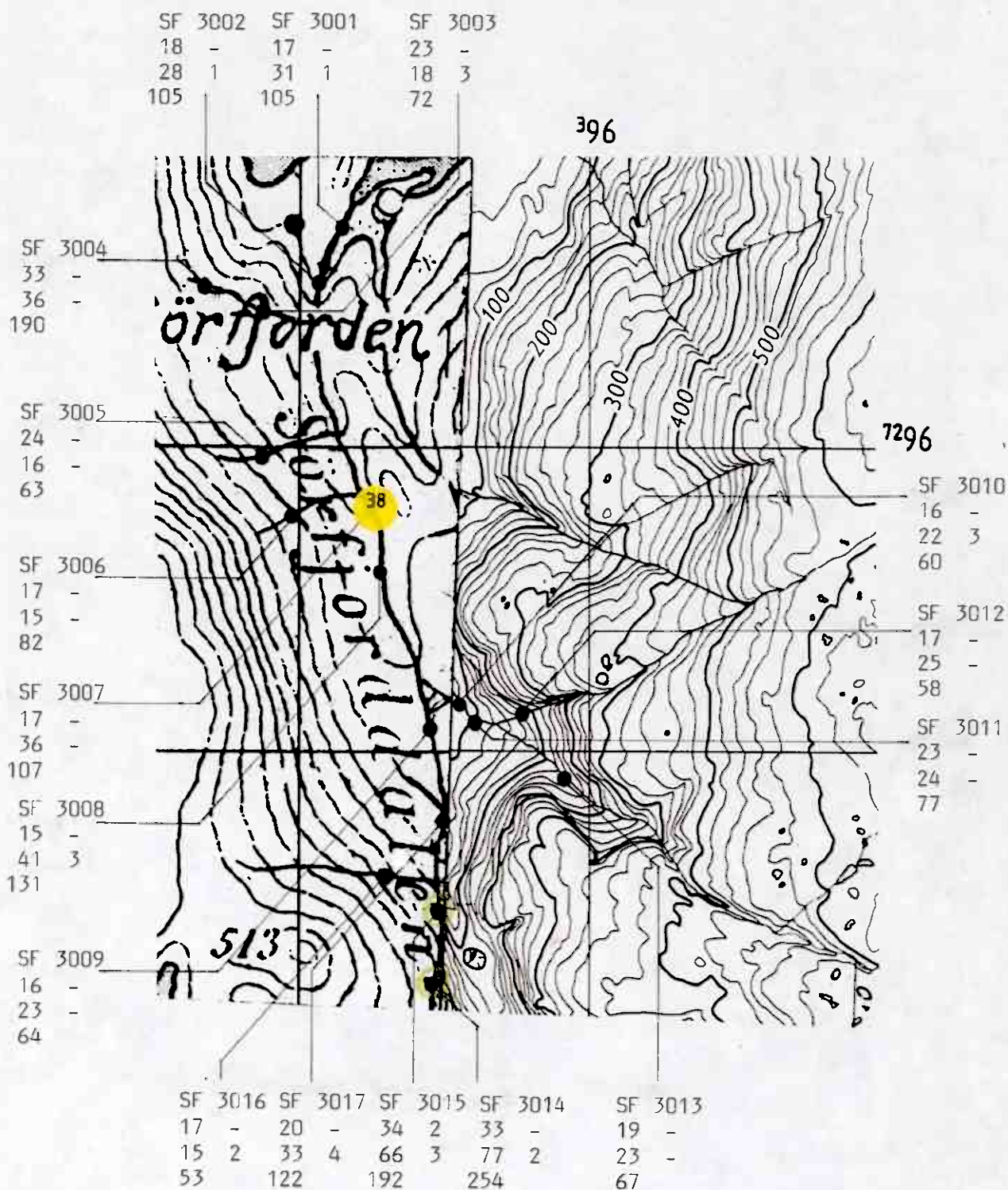
Recommendations for further follow up:



rel. high Pb-Zn
stratiform? \Rightarrow campore
Herring lake



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 9 VESTVÅGEN
 Scale 1:20.000



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 51 SØRFJORDEN B
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Sordalen No:42 Size:1.0 km²

Claim location:Map sheet 1826 IV Tjøtta

:Air Photo

:Okø Kart

Pegged: Yes No--~~Partly~~Claim retained: yes/ No

Stream length: 1.0 km/ Drainage area:1.0km²

Original sample point(72ppb Au) resampled: Yes No

Follow up team: CR/AK Duration:1.0 days

Nos.of follow up sample: HU 8001- HU 8008

Description of drainage system:

The stream splits into 4 small tributaries,all of which were sampled.Higher parts of the drainage run through talus,in lower parts glacial overburden dominates.

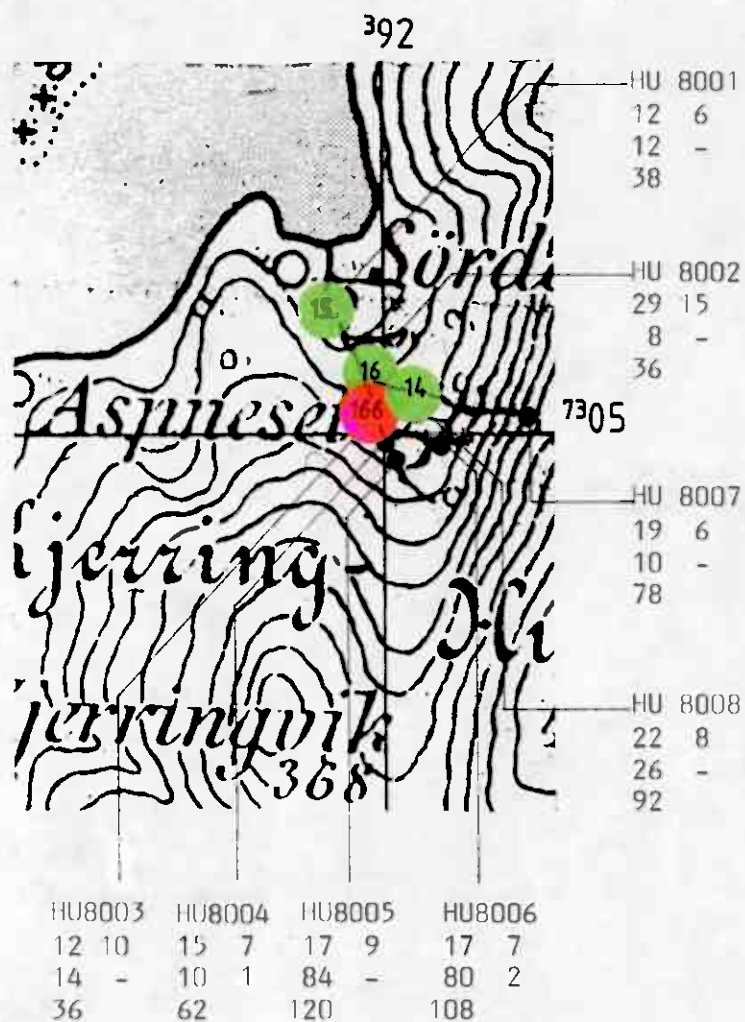
Geology:

The main lithology is a homogeneous biotite mica schist.No geological observations possible in lower part of the drainage,due to thick overburden.

Comments:

Four gold anomalies were detected in the lower part of the drainage,all of which are associated with increased arsenic values.

Recommendations for further follow up: Geological mapping and litho geochemistry.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 42 SØRDALEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Husvik No:11 Size:2.75 km²

Claim location:Map sheet 1826 II Tjøtta

 :Air Photo D 008,008,007

 :Okø Kart D7 185 II

Pegged:Yes No Partly Claim retained: yes /No

Stream length: 2.5 km Drainage area:3.0km²

Original sample point(5 ppb Au) resampled:Yes-No

Follow up team: OK/GT Duration:3.5 days

Nos. of follow up sample: Hu 4002 - HU 4031

Description of drainage system:

The streams drain a north-south trending valley system east of Husvikfjeldet. At the intersection with a minor east-west valley, appx 1 km upstream from the outlet a sediment filled basin developed, with meandering streams and clay in river beds. The stream commonly follow cracks and joints of the bedrock.

Geology:

Outcrops in higher altitudes consist of biotite gneiss and phenocrystic granodiorite forming the country rocks. In the lower sections of the stream more strongly sheared varieties of biotite schist predominates. These schists are intercalated with marbles-leading to the development of metamorphic skarns-and sulfide bearing quartzites. The mineralisation of the Husvik field is intimately associated with the contacts between lime rich metasediments and the intrusives.

Comments:

A very detailed stream sediment sampling was undertaken to test the arseniferous base metal mineralization at Husvik for gold. The sampling confirmed the known mineralization extremely well with values up to 4875 ppm Zn, 984 ppm Pb and 428 ppm As. Only one sample returned with a medium range gold anomaly, indicating that the presence of gold mineralisation peripheral to the stratabound mineralization at Husvik is unlikely.

Recommendations for further follow up:

None

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Husvik 'B' No:41 Size:1.0 km²

Claim location:Map sheet 1826 II Tjøtta

:Air Photo D 009,008,007

:Okø Kart

Pegged:Yes No Partly Claim retained: yes /No

Stream length: 50 m Drainage area:0.1km²

Original sample point(9 ppb Au) resampled:YesNo

Follow up team: OK/GT Duration:0.5 days

Nos.of follow up sample: Hu 4001

Description of drainage system:

The stream is only 50 m long, following a crack in bedrock. Surroundings are littered, and the 'stream' does not lie within the claimed area.

Geology:

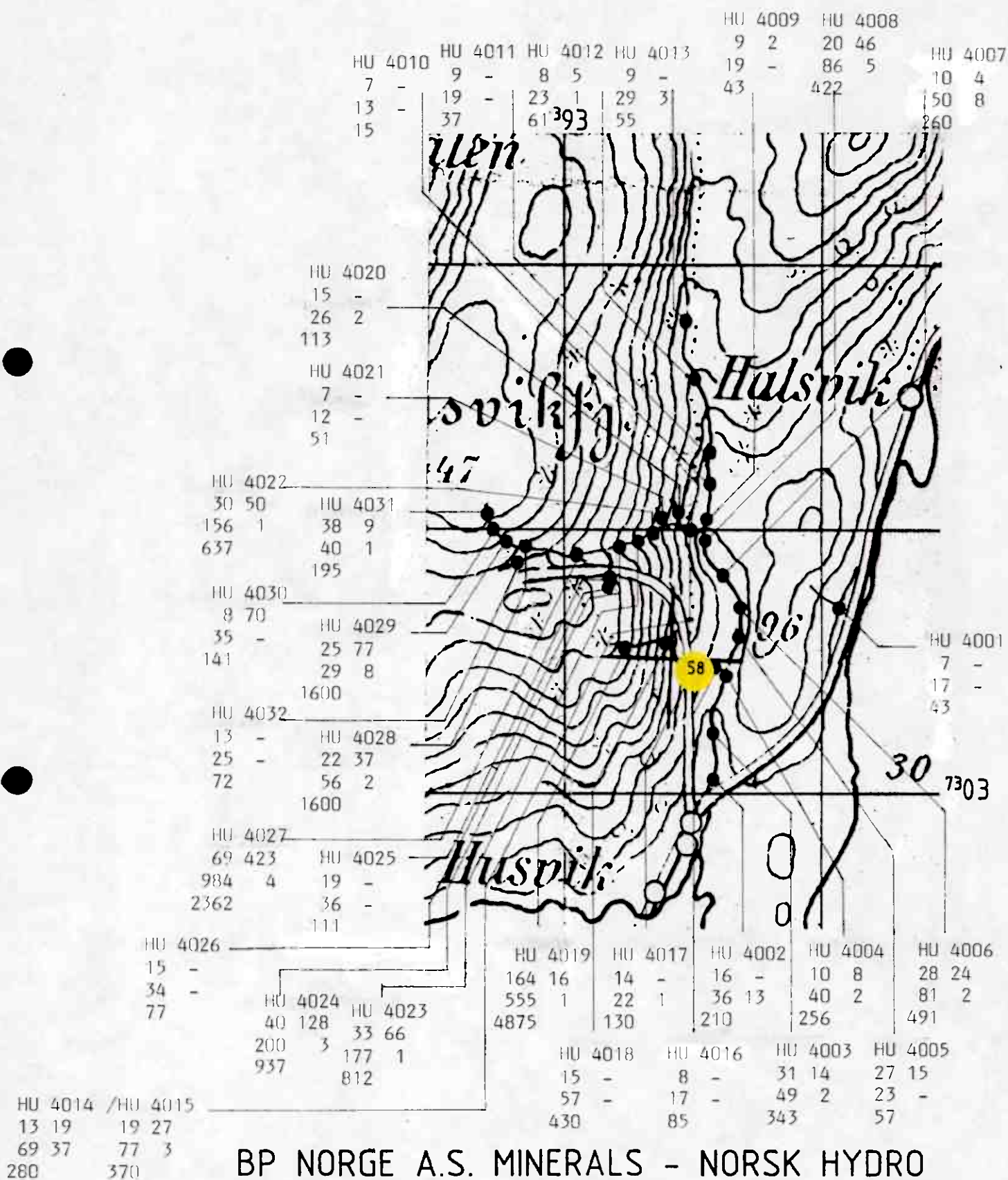
Outcrops consist of biotite gneiss and granodiorite, both intensely sheared..At the source of the stream some hematization, clay weathering and rust was observed along joints, a 70 cm wide quartz vein/boudin showed very minor sulfide impregnation. Rock sample:0300 HU 4001

Comments:

See no. 11 Husvik

Recommendations for further follow up:

ditto.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 11+41 HUSVIK +
 Scale 1:20.000 HUSVIK B

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:NubmarkenNo:10 Size:1.5 km²

Claim location:Map sheet 1826 IV Tjøtta

 :Air Photo c 009,010,011

 :Okø Kart DJ 183 IV

Pegged:Yes-No Partly Claim retained: yes No

Stream length: 1.2 km/ Drainage area:1.5km²

Original sample points(29 opp Au) resampled:Yes-No

Follow up team: OK/GT Duration:2.0 days

Nos.of follow up sample: HU 4069 - HU 4083

Description of drainage system:

The stream drains the eastern slopes of the Aspviksfjeldet, and runs in southeasterly direction across alluvial plains and bedrock thresholds, forming waterfalls and rapids. Stream branches into several small tributaries, all of which were sampled. Vegetation consists of shrubs above the treeline and birch and picea forrest further down in the valley.

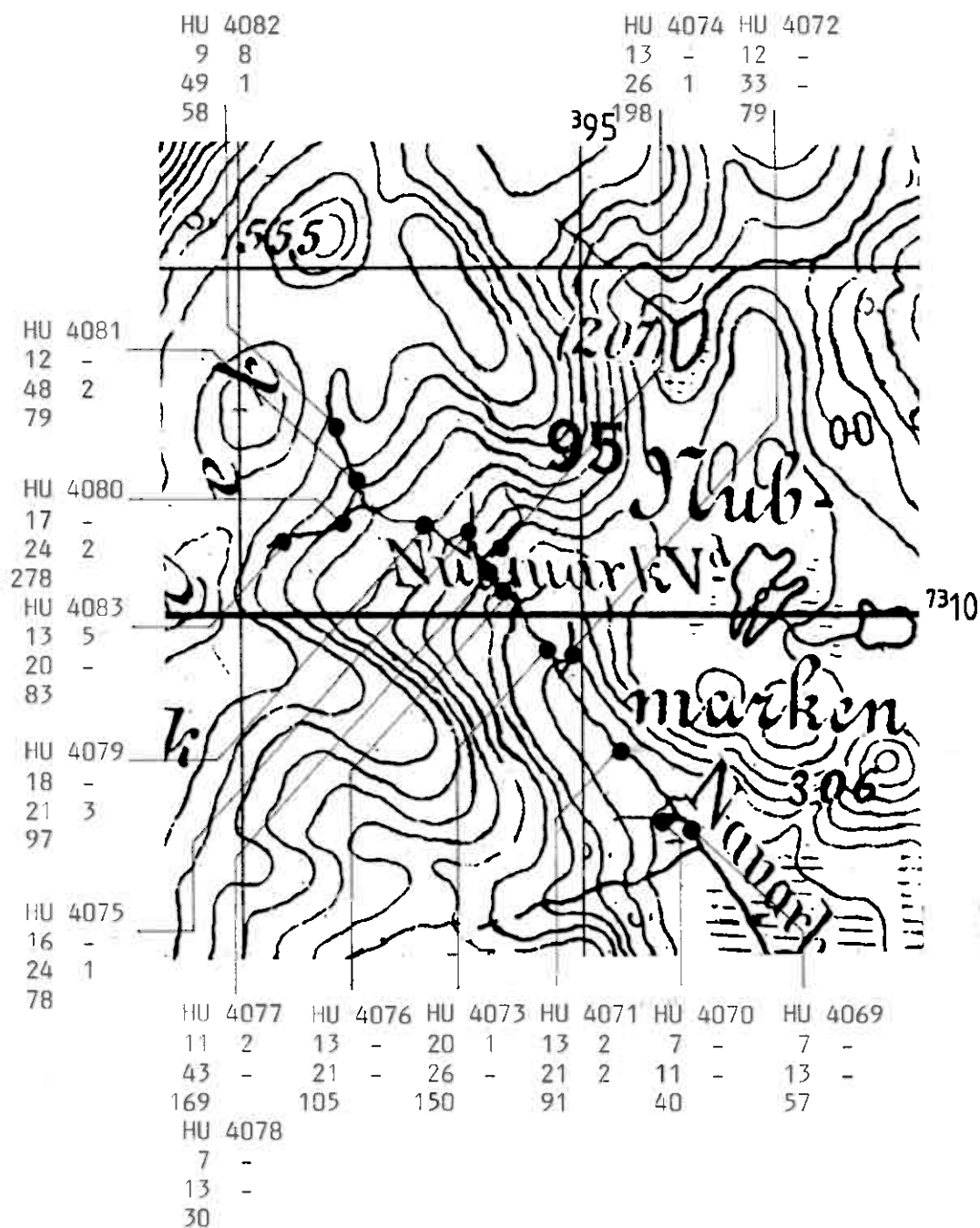
Geology:

The main lithologies are granodiorite, partly porphyritic and a biotite rich mica schist. Locally a migmatite of these two rock types can be observed. Greenish, fine grained calc-silicates, marbles and amphibolites occur as complex infoldings in the upper part of the drainage. The north-south running tributary (sa.no.:0300 HU 4072) runs along a contact between marble and amphibolite. This contact hosts an alteration zone (kaolinisation) of a few dm thickness and 5m length. This alteration was chip sampled sa.no.0300 HU 4072 .

Comments:

Very close spaced sampling was performed, no gold anomalies detected.

Recommendations for further follow up: None



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 10 NUBMARKEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Hestdalen No:40 Size:0.5 km²

Claim location:Map sheet 1825 II Tjøtta

:Aix Photo

:Okø Kart DK 182 I

Regged:Yes No Partly Claim retained: yes/ No

Stream length: 0.75km/ Drainage area:4.0km²

Original sample point(30 ppb Au) resampled:Yes No

Follow up team: OK/GT Duration:1.5 days

Nos.of follow up sample: HU 4053 - HU 4057

Description of drainage system:

The stream system drains the western slopes of Hamran, and flows into a lake elongated in a north-south depression. Overflow from the lake drains southward, and proceeds via an estuary into the sea.

Geology:

The area around the lake is dominated by a biotite gneiss, which commonly exhibits quartz-feldspar boudins. Locally a migmatite is formed by intense "Durchbewegung" of the biotite gneiss and an equigranular granodiorite.

Comments:

Sample no. HU 4053 returned with 132 ppb Au, and is the only sample collected from that drainage.

Recommendations for further follow up:

Further follow up should mainly consist of geological mapping and rock sampling.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Oeverjord No: 6 Size:2.25 km²

Claim location:Map sheet 1826 II Tjøtta, 1826 I Mosjøen

:Air Photo D 008,008,010

:Okø Kart

Pegged:Yes No Partly Claim retained: yes /No

Stream length: 0.4km Drainage area:0.1km²

Original sample points (15,20 ppb Au) resampled:YesNo

Follow up team: OK/GT Duration:1.0 days

Nos. of follow up samples: Hu 4049- HU 4052

Description of drainage system:

Two minor streams draining narrow bedrock valleys (appx. 10 m wide) with birch dominated vegetation. Resampling took place in alluvial cones, follow up samples further upstream taken from active sediment.

Geology:

Main lithology is a biotite schist with boudins (cm-scale) of quartz-feldspathic remobilisations. Cobbles of clear and milky quartz in the stream.

Comments:

See no. 40 Hestdalen.

Recommendations for further follow up:

ditto.

82 Anom. 20 ppb

106

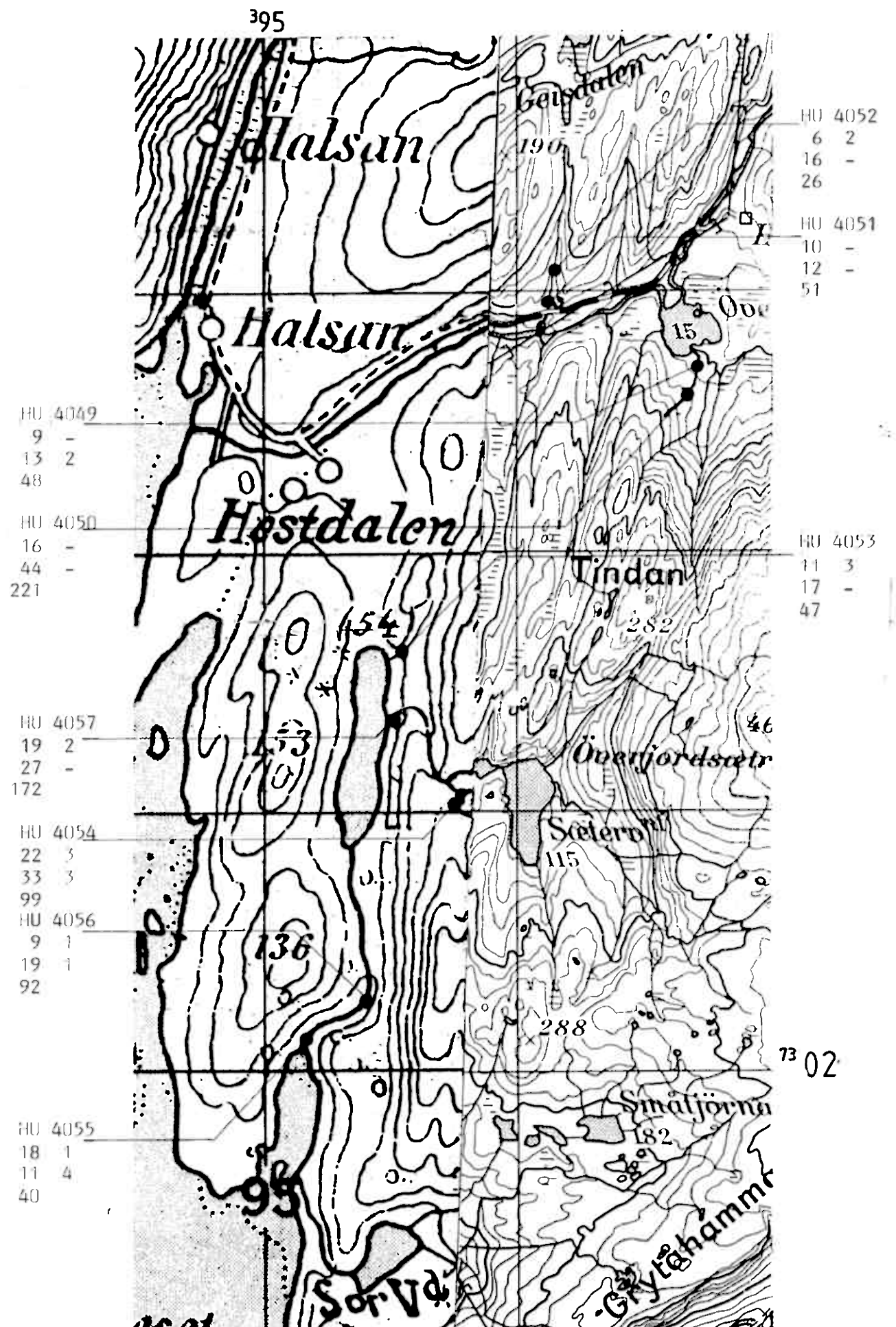
BIOTITE SCHIST & GNEISS
WITH QUARTZ-RICH
SEGREGATIONS

132

82 Anom. 30ppb

124

GRANITE/GRANODIORITE



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 6+40 ØVERJORD +
 Scale 1:20.000 HESTDALEN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sorfjorden A No: 52 Size: 1.5 km²

Claim location: Map sheets 1826 I Mosjøen, 1826 IV Tjøtta

:Air Photo E 007,008,009

:Okø Kart DK 180 I,II

Pegged: Yes No-Perth: Claim retained: yes/ No

Stream length 2.0km/ Drainage area: 2.0 km²

Original sample point (52 ppb Au) resampled: Yes No

Follow up team: AS/BS Duration: 2.0 days

Nos. of follow up samples: SF3018-SF3025

Description of drainage system:

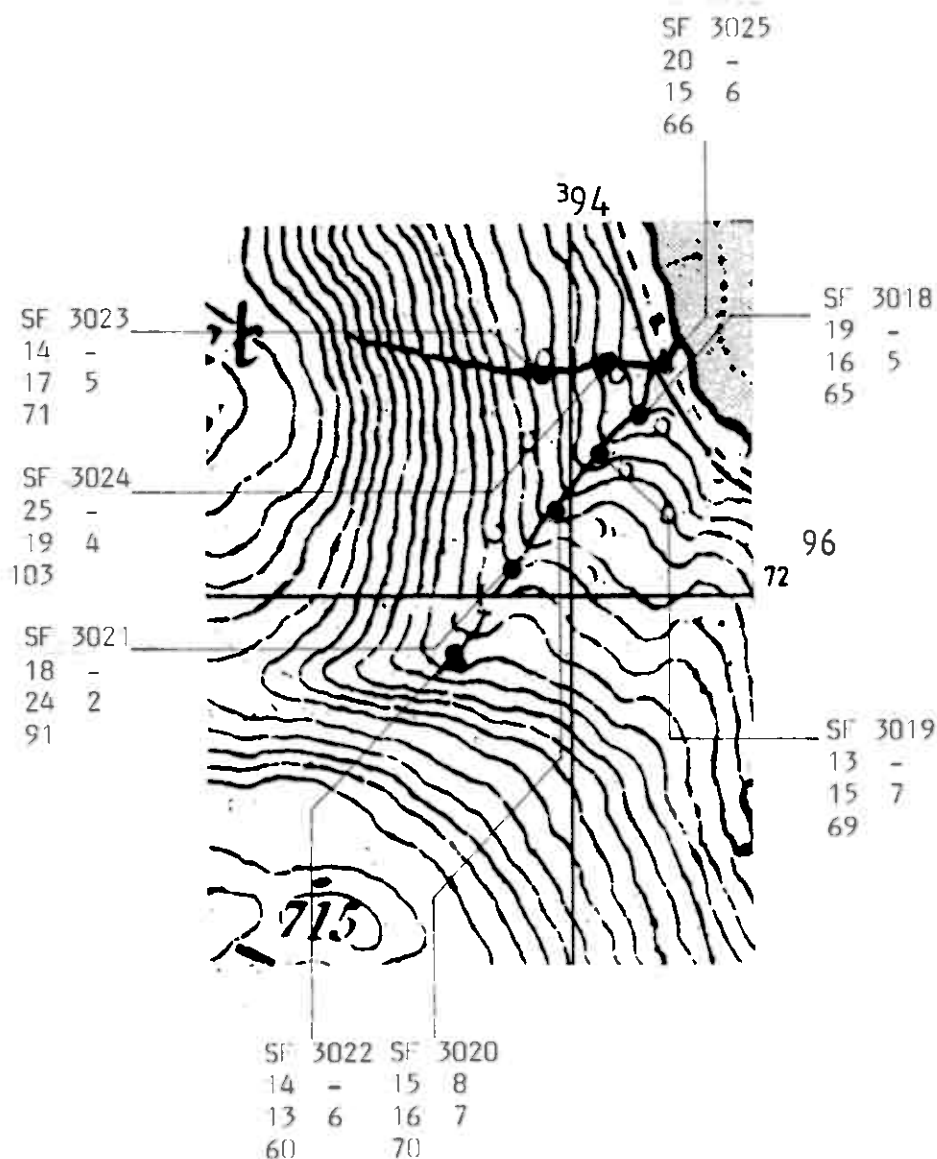
Drainage system consists of main stream with 4 tributaries to the west and tributary system A in SE part of the area. A small lake is situated at 60m above sea level.<

Main stream: Downstream from the small lake the main stream runs in a narrow gully, with numerous potholes, small rapids and large boulders in stream bed. Tributaries to the west of the main stream drain steep cliff and boulder fields. Upstream (south) of small lake the main stream is found as a system of smaller braided streams which furthest to the south join up in one stream in gully that narrows down to 30m furthest to the south. Sampling was not possible south of point 0300SF3014 as the gully was blocked up by a waterfall.

Tributary system A: Drains area SW of the small lake, lower part runs in braided stream system and boulder field. Upper part on well exposed bedrock, and in narrow gulleys on steeply rising slope, rapids and waterfalls. The upper part of the trib. system A has not been sampled.

Geology:

Main stream: white-grey marbles intercalated with quartz-biotite schist (+disseminated sulphides) occur downstream of the lake. Upstream, there is less exposure, but mica-schist, marble and granodiorite boulders were recorded in scree at the foot of a cliff to the west of the stream. These also included pyrrhotite-bearing skarn. A rusty area in the cliff wall occurs west of sample SF 3008. Tributary system: augen gneiss in the



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name : 52 SØRFJORDEN

Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sorfjorden 'B' No: 51 Size: 0.75 km²

Claim location: Map sheet 1B26 IV Tjøtta

Air Photo E 007,008,009

Dko Kart DK 180 I, II DK 181 III

Pegged: Yes-No Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 0.75 km²

Original sample points (76ppb Au) resampled: Yes/No

Follow up team: AS/BS Duration: 1.0 days

Nos. of follow up samples SF 3018 - SF 3025

Description of drainage system:

Stream system consists of main stream system and tributary system A. The area was sampled after continuous heavy rainfall resulting in very strong current and numerous temporary streams. The sampling was restricted to what was assumed to be the main stream, and tributary B. The drainage area consists of steep, overgrown boulder field up to 300-400 m. above sea level, overhung by cliffs above 300-400 m above sea level. The main stream was sampled up to 320 m. above sea level and trib. B. up to 180 m. above sea level. Sample point from 1982 field season (170042) is placed downstream from junction of main stream and trib. A.

Geology:

Outcrops were only found along main stream system, and consisted of mica-schists, gneiss intruded by granodioritic dykes. Boulders of skarn, rusty biotite rich mica-schist, and marbles found in mainstream and trib. A. All rock types with disseminated sulphides (pyrrhotite). It was not possible to locate the source area for these boulders.

Comments:

No Au anomalies detected.

Recommendations:

None.

headwater, with banded gneiss lower down, with a few dm-scale
granodiorite dykes.

Comments:

No Au anomalies detected.

Recommendations:

None.

MOSES

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:HestakslenNo:159 Size:1.5 km²

Claim location:Map sheet 1826 I Mosjøen

:Air Photo

:Okø Kart

Pegged:Yes-No Partly Claim retained: yes /No

Stream length: 1.5 km/ Drainage area:1.5km²

Original sample point(28ppb Au) resampled: Yes No

Follow up team: TK/HK Duration:1.0 days

Nos.of follow up sample: BK 7001- BK 7005

Description of drainage system:

The stream system consists of several small tributaries,originating from snow fields,which join into one larger stream.The streams run mostly directly over bedrock.The upper part of the stream system is unaccessable due to very steep slopes.

Geology:

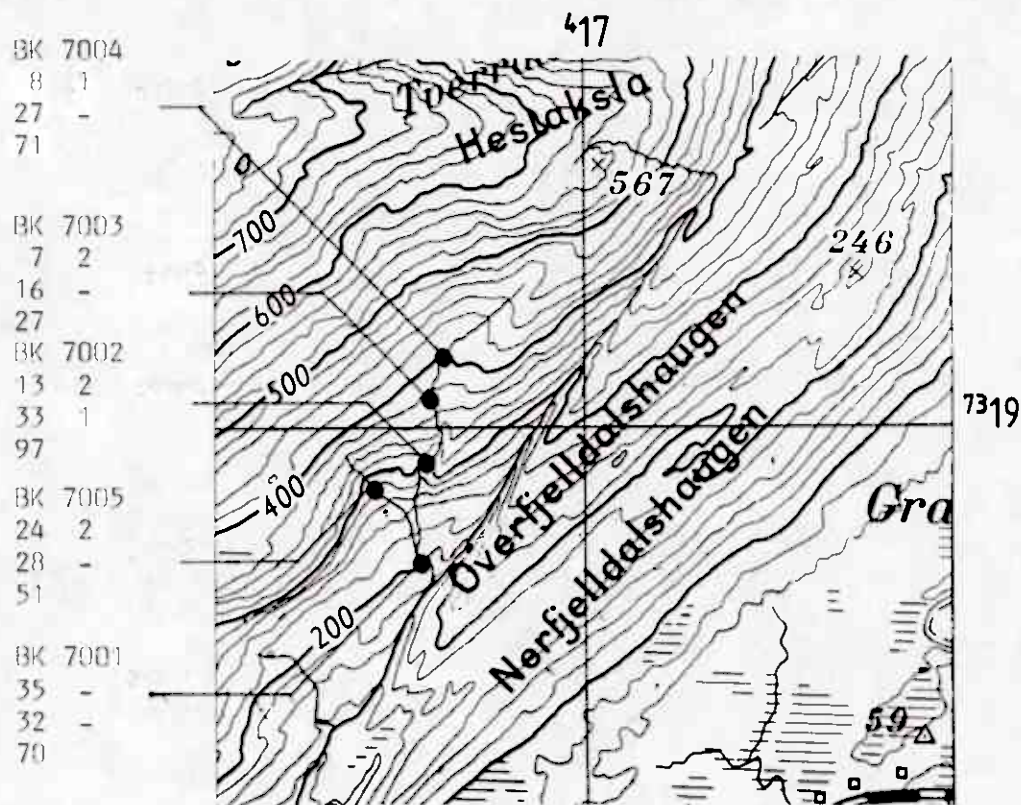
The main lithology is a homogeneous biotite mica schist.The schists show rusty weathering,but sulfide disseminations could not be observed.In addition smaller outcrops of fine-grained gray,banded quartzites and aplitic veins were recorded.

Comments:

None of the follow up samples returned with detectable gold,and trace element concentrations are low.

Recommendations for further follow up:

Further follow up is not recommended.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 159 HESTAKSLEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Fjeldskaret No: 116 Size: 0.25 km²

Claim location: Map sheet 1826 I Mosjøen

 : Air Photo

 : Oko Kart DN 181 II

Pagged: Yes No Perety Claim retained: yes/ No

Stream length 0.5km/ Drainage area: 0.25km²

Original sample points (Zopp Au) resampled: Yes No

Follow up team: IF/TO Duration: 0.5 days

Nos. of follow up sample: Mo 1058- Mo 1060

Description of drainage system:

The two very small streams which feed the system drain very small lakes/ponds in thin peat cover over granite, descending via a small marsh to a talus slope and the original anomaly point.

Geology:

Massive homogeneous biotite-muscovite granite in contact with biotite gneisses and thin marbles, containing small (m-size) rafts of the latter.

Comments:

Two medium range gold anomalies; possible gold source in rafted carbonates.

Recommendations for further follow up:

A low priority target; detailed geology and rock sampling.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:SteindalsmoenNo:107 Size:1.5 km²

Claim location:Map sheet 1826 I Mosjøen

Air Photo

Okø Kart DN 181 II, IV

Pegged:Yes-No Partly Claim retained: yes/ No

Stream length 10.5km/ Drainage area:8.5km²

Original sample points(34,40,70ppb Au) resampled: Yes No

Follow up team: IF/TO Duration:2.0 days

Nos. of follow up sample: Mo 1011- Mo 1025
Mo 6001- Mo 6003

Description of drainage system:

Original sampling point in more of a river than a stream! - Two main sub-stream systems: a)northerly: streams descend from a high NW-SE trending cliff into a marshy area, thence via karst systems and rapids cut in marble to the original sampling point which lies in an area underlain by thick clay b)southerly: streams descend from same massive into karst systems and a canyon to join the northerly sub-stream system.

Geology:

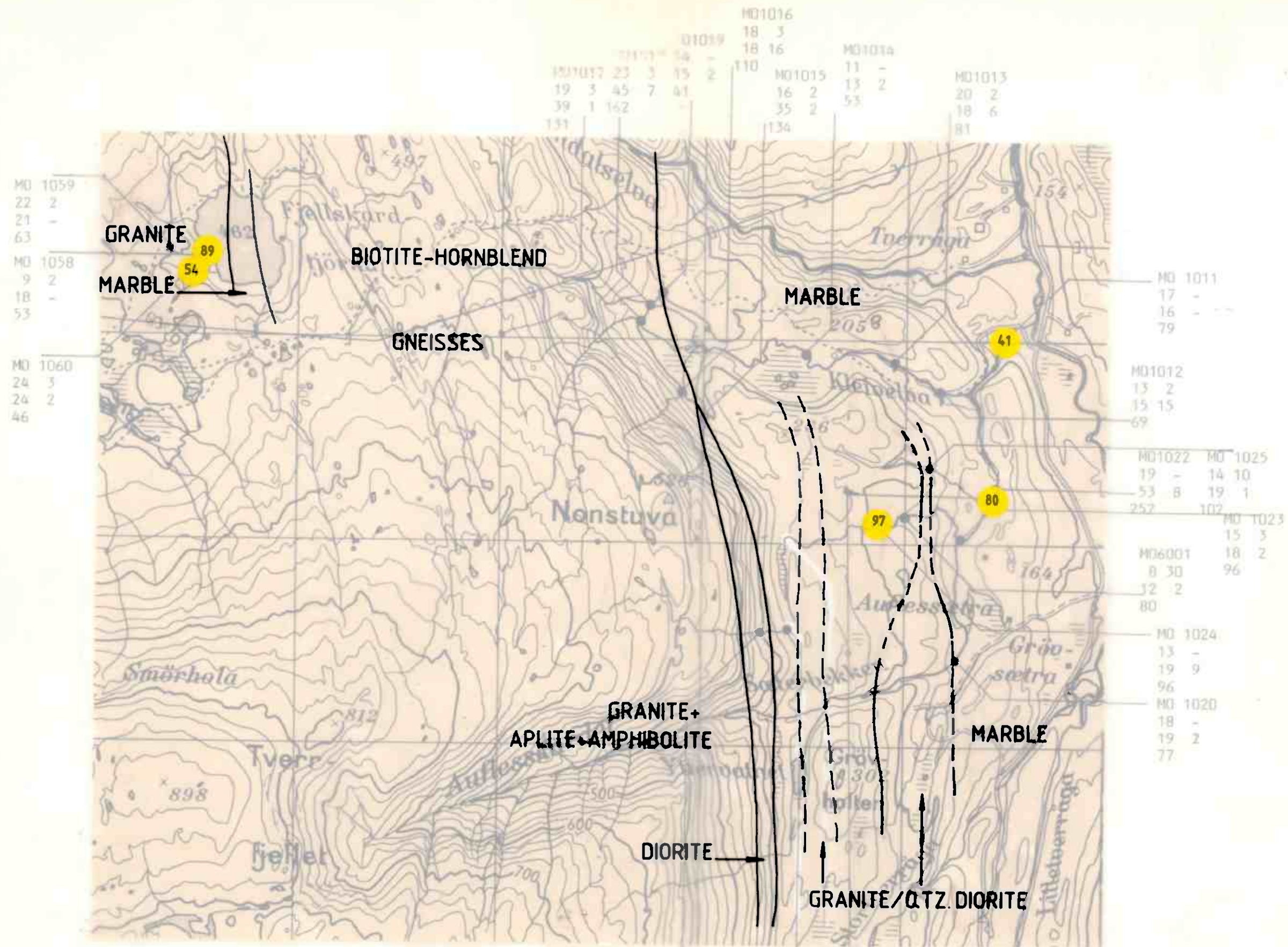
a)N. system: stream source in quartz-feldspar-biotite and hornblende gneisses (probably intrusive) forming cliffs and probably underlying bog. The rest of the system is underlain by cream, weakly banded marbles containing small pods of tectonized amphibolite b)S. system: stream source in quartz-feldspar-muscovite-chlorite and feldspar-muscovite granites and aplites with amphibolite?, majority of system runs through strongly karsted marbles (many uncharted streams!). More northern streams drain quartz-feldspar-biotite-muscovite schist/gneiss at source. Pyrr-cpy bearing quartz-veins? over in headwaters of N. system.

Comments:

Three medium range gold anomalies detected;probable source area is cliff bounding valley to the west and the contact zone between intrusives and marbles.

Recommendations for further follow up:

A low priority follow up target.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 116,107 FJELLSKARET
Scale 1:20.000
STEINDALSMOEN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Oydalen/Hatten E.No:106,108 Size:3.5 km²

Claim location:Map sheet 1826 I Mosjoen

:Air Photo

:Okø Kart DN 182 II,IV

Pegged:Yes No--Partly Claim retained: yes/ No

Stream lengths 2x1.8km/ Drainage area:2.0km²

Original sample points(393ppb Au) resampled: Yes No

Follow up team: IF/TO Duration:1.0 days

Nos.of follow up sample: Mo 1026- Mo 1040

Description of drainage system:

Two streams sampled (split upstr. from orig. anom. pt.100105) a) west str.: descends via snowfields in gulleys cut in well exposed schists, thence via gorges commonly following foliation planes to a talus field and bog to 110105. b) east str: descends via snowfields following foliations to a long canyon of shattered well exposed bedrock apparently following zone of intense veining/injection, thence via small gulleys to talus field and semi-bog to 110105.

Geology:

Quartz-biotite gneisses containing amphibolites and conformable quartz veins/sheeted pegmatites, with locally abundant biotite-muscovite granite veins. Most interesting is the E. stream geology, following a zone within pervasively intruded and altered biotite-gneisses (from quartz-veins, tourmaline pegmatite, granite) where pyrrhotite impregnation is common. The western stream does not appear interesting apart from some thick quartz veining at lower levels.

Comments:

Two middle range and one low range gold anomalies draining Stortua.Sulphide mineralized rock samples did not return Au-values.

Recommendations for further follow up:

The well exposed geology did not reveal any other mineralization than that sampled,therefore no further work is recommended on the Stortua part of this claim.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Hatten No:108 Size:4.5 km²

Claim location:Map sheet 1826 I Mosjoen

:Air Photo

:Okø Kart DN 182 III,I

Pegged:Yes No--Partly Claim retained: yes/ No

Stream length: 8.5 km/ Drainage area:3.0km²

Original sample points(40,34ppb Au) resampled: Yes No

Follow up team: IF/TO Duration:3.5 days

Nos.of follow up sample: Mo 1041- Mo 1057
Mo 1061- Mo 1081

Description of drainage system:

The anomalous drainage systems in the Kvanndalsnesan area are a)6 streams draining the W. valley slope, descending from bedrock/thin peat bottomed ponds thence via waterfalls and rapids, frequently in the N. via karst tunnels, to the clay/peat valley floor b)the W. section of Kvanndalselva, supplied by small streams draining the E. valley slope via rapids and bog, and part of the N. West slope by the same.

Geology:

Biotite-fsp-(hbl)schists cont. abundant coarse-grained qtz-fsp deformed veins and lenses, and amphibolite horizons, together with interbedded calcite and dolomite marbles. These have been intruded by both biotite and biotite-muscovite granite, only locally tending pegmatitic, with minor skarning, rafts of marble and amphibole schists occur within granites. Minor gabbro also present on W. slope. Three bulk rock samples taken (0300M01003, 1004, 1005) of mineralization:

1003:Pyrrhotite impregnation in quartz-amph-calcisilicate assemblage near contact of large marble enclosure in granite near contact zone.

1004: pyrrhotite-opy impregnation in quartz-vein and mica-poor granite. The quartz-veining at this location is thick (1-2m), resembling a rusty, coarse-sugar textural quartzite.

1005:Fe hydroxide/limonite-rich, completely altd. gabbro/amphibolite with rusty quartz-veins, collected only ~150m from 1004.

Comments:

Numerous low to high range gold anomalies, the greatest concentration appearing to suggest a source northwest of Kvanndalsnesan.

Recommendations for further follow up:

Detailed geology and rock sampling at higher elevations and in the rafted marble area.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Oydalen No: 106 Size: 3.5 km²

Claim location: Map sheet 1826 I Mosjøen

: Air Photo

: Oko Kart

Revised: Yes-No Partly Claim retained: yes/ No

Stream length 1.3 km/ Drainage area: 1.0 km²

Original sample point (857 ppb Au) resampled: Yes No

Follow up team: IF/TO Duration: 1.0 days

Nos. of follow up sample: Mo 1001- Mo 1010

Description of drainage system:

Stream descends from two small streams (one in semikarst terrain) in marbles, commonly following schistosity planes via small rapids to the plane of the river Vefsn and the 1982 anomaly point (110168, 110169), with thick clay overburden, mature stream beds (pebbles, grit, sand, silt, clay). Seven sieved bank samples of the overburden were taken around and upstream of the 1982 anomaly. Only one of these contained 10 ppb Au.

Geology:

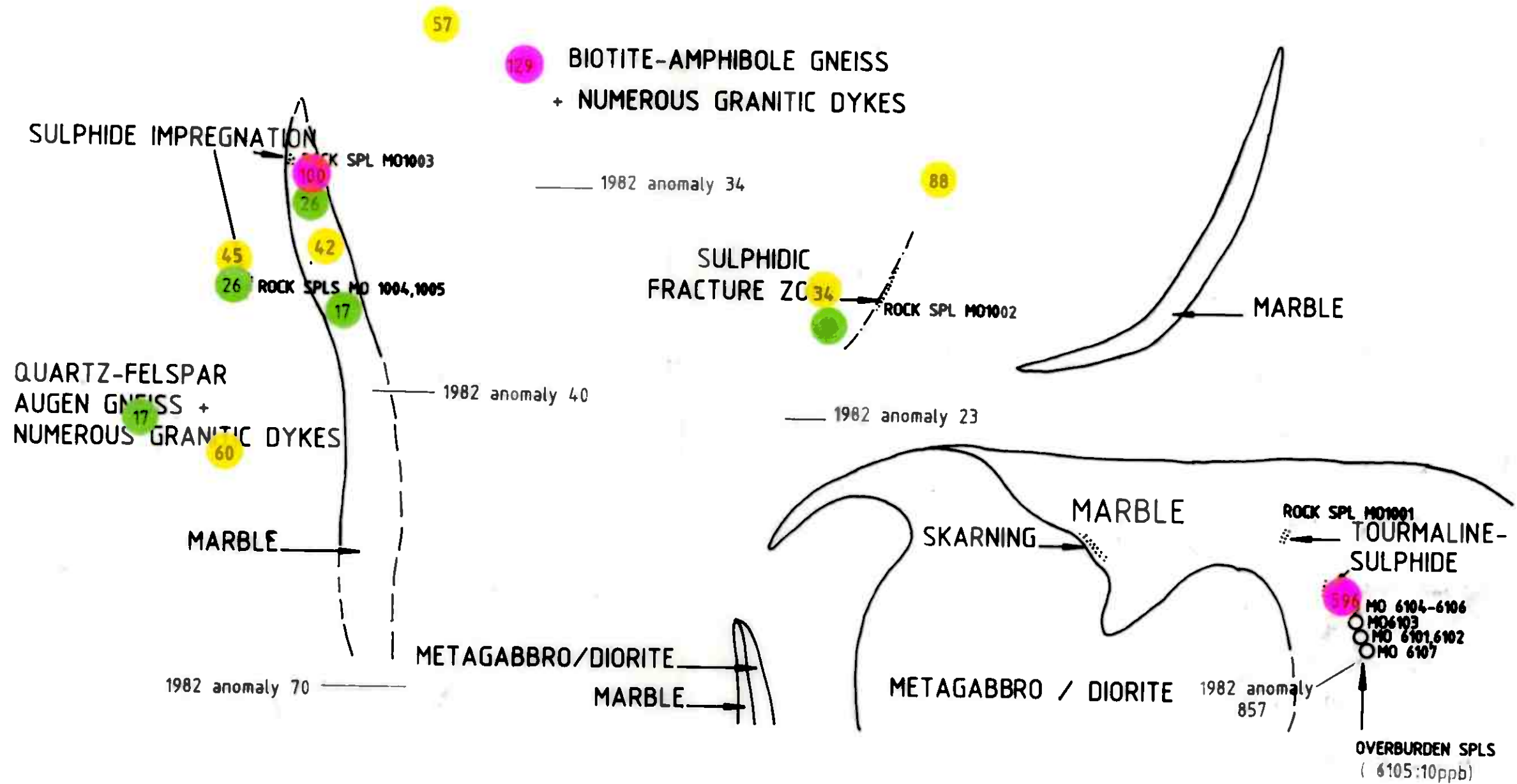
White-light grey marbles with amphibolites (generally schistose), and relatively minor quartz-feldspar-muscovite-biotite intrusives. Amphibolites contain zones rich in py-pyrr-(tourmaline). Marbles are skarned, particularly near the source of the N. most small stream, with silicification, tourm, pyrr, diopside and other calcsilicates. These were sampled, with negative results.

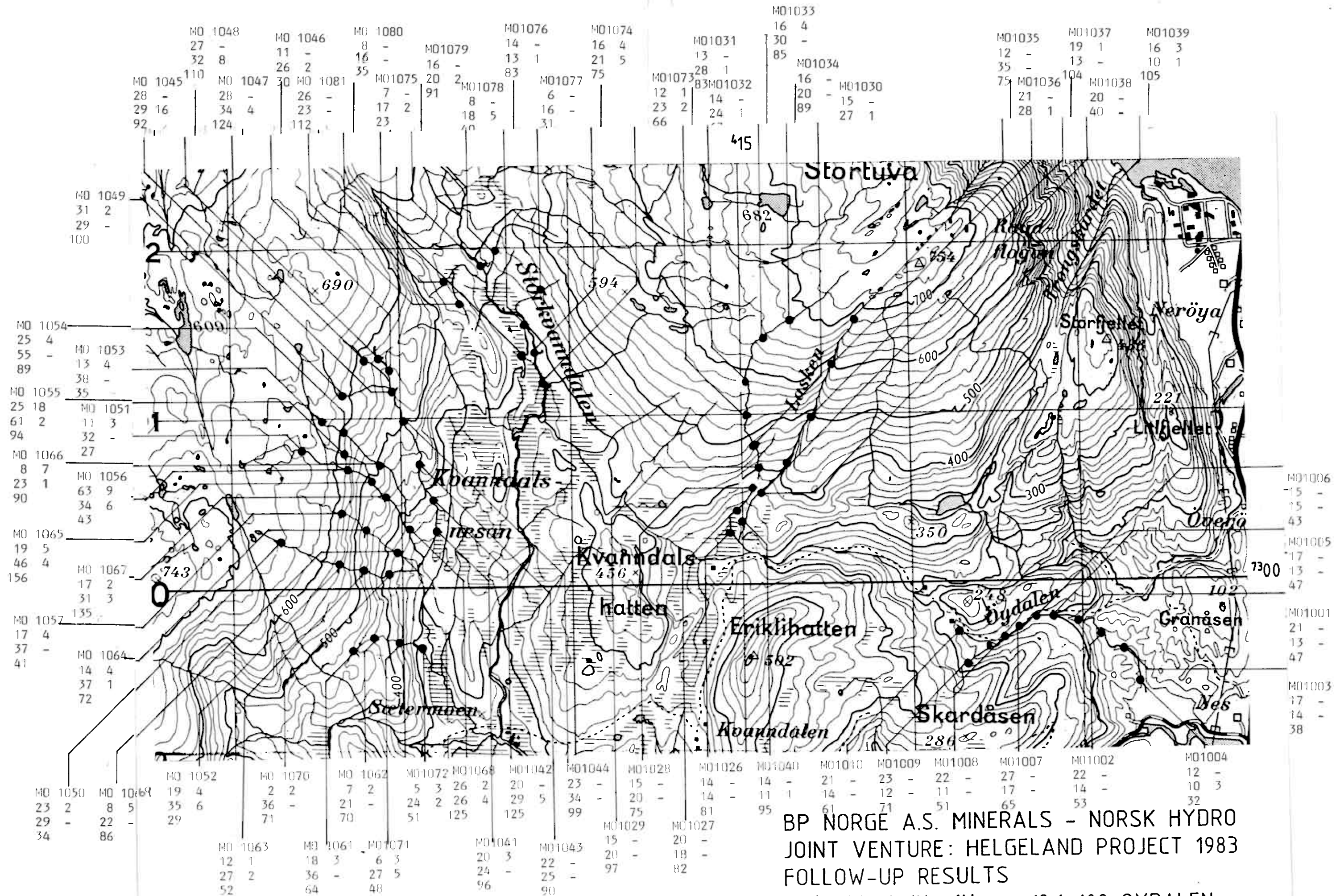
Comments:

One (very) high-range Au anomaly detected several hundred metres upstream of very high 1982 anomaly. Bank sampling did not detect any possible contaminating drift. Rock samples of sulphide-tourmaline mineralization did not yield Au.

Recommendations:

Detailed geology and lithogeochemistry in the limited area to the N and W of the anomalies: Approx. 1 team day.





BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 10 6+108 OYDALEN +
 Scale 1:20.000 HATTEN II

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Livatn No 12 Size: 1.0 km²

Claim location: Map sheet 1826 I Mosjoen

Air Photo

Oko Kart DL 184 I, II

Pegged: Yes --- No Partly Claim retained: Yes No

Stream length 1.5 km Drainage area: 0.5 km²

Original sample point (5 ppb Au) resampled: Yes No

Follow up team: OK/GT Duration: 1.0 day

Nos. of follow up sample VF 4004 - VF 4009

Description of drainage system:

Original sample point is situated in a bog on valley floor. A few, very minor streams drain into valley from the north. At head of swamp the valley has its watershed beyond which drainage goes westward.

Geology:

Bedrock is dominated by a biotite rich granodiorite, partly gneissose. Same rock type in alluvial cones. Well rounded cm-sized cobbles on valley floor.

Comments:

One low range gold anomaly.

Recommendations:

None

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Trangdalen No 8 Size: 1.0 km²

Claim location: Map sheet 1826 I Mosjoen

Air Photo

Oko Kart DK 182 I,II

Pegged: Yes No Pervy Claim retained: Yes No

Stream length 2.0km Drainage area: 2.0km²

Original sample point (5 ppb Au) resampled: Yes-No

Follow up team: OK/GT Duration: day

Nos. of follow up sample None

Description of drainage system:

Claimed area outside of drainage system upstream of sample 140147. Wrong positioning of claim is due to old, inaccurate 1 : 50 000 map sheet. Area left without further consideration.

Geology:

Be 36 Trangdalen 'B'.

Comments:

Ditto.

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Trangdalen 'B' No 56 Size: 1.5 km²

Claim location: Map sheet 1826 I Mosjoen

Air Photo

Okø Kart DL 184 III

Pegged: Yes No Partly Claim retained: Yes No

Stream length 0.3 km Drainage area: 0.1 km²

Original sample point (6 ppb Au) resampled: Yes No

Follow up team: OK/GT Duration: 0.5 day

No. of follow up sample VF 4001 - VF 4003

Description of drainage system:

Two tributaries sampled have sources in a cliff, flowing down through alluvial cones to the flat valley floor.

Geology:

Biotite-rich granodiorite-mica schist migmatite. Intense shearing and faulting. Boulders of pegmatite found in alluvial cone.

Comments:

One low-range Au anomaly.

Recommendations:

None.

ANOMALY FOLLOW UP

HELGELAND PROJECT 1983

Claim Name: Stotfjeldet No 104 Size: 1.0 km²

Claim location: Map sheet 1826 I Mosjøen

:Air Photo

:Okø Kart DL 184 II

Pegged: Yes No --- Partly Claim retained: Yes No

Stream length 0.9 km Drainage area: 1.0 km²

Original sample point (166 ppb Au) resampled: Yes No

Follow up team: OK/GT Duration: 1.0 day

Nos. of follow up sample VF 4010 - VF 4015

Description of drainage system:

Stream begins in a plateau area in eastern Stotfjeldet. It runs in NE - direction, partly in a bedrock crack, and empties into a stream draining an east - west valley.

Geology:

The area is dominated by migmatitic bedrock (granodiorite and biotite schist/gneiss). Low temperature stilbite alteration was observed along the stream.

Comments:

One low range gold anomaly.

Recommendations:

None

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Softing No145 Size: 0.75 km²

Claim location: Map sheet 1826 I Mo

: Air Photo

: Oko Kart DN 184 II

Pegged: Yes No Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 1.0km²

Original sample point (198 ppb Au) resampled: Yes No

Follow up team: JT/GT Duration: 1.0day

Nos. of follow-up sample : BK 2001 - BK 2011

Description of drainage system:

Lowest part of stream meandering through valley with thick overburden along sides of stream. Farming on alluvial marine sediments upwards from sample point 2008 steeper slopes on both sides with large boulder fields. Upwards sample point 2009 stream disappears under boulder field. Last sample point BK 2011 on tributary below old mine workings (mag. of hematite).

Geology:

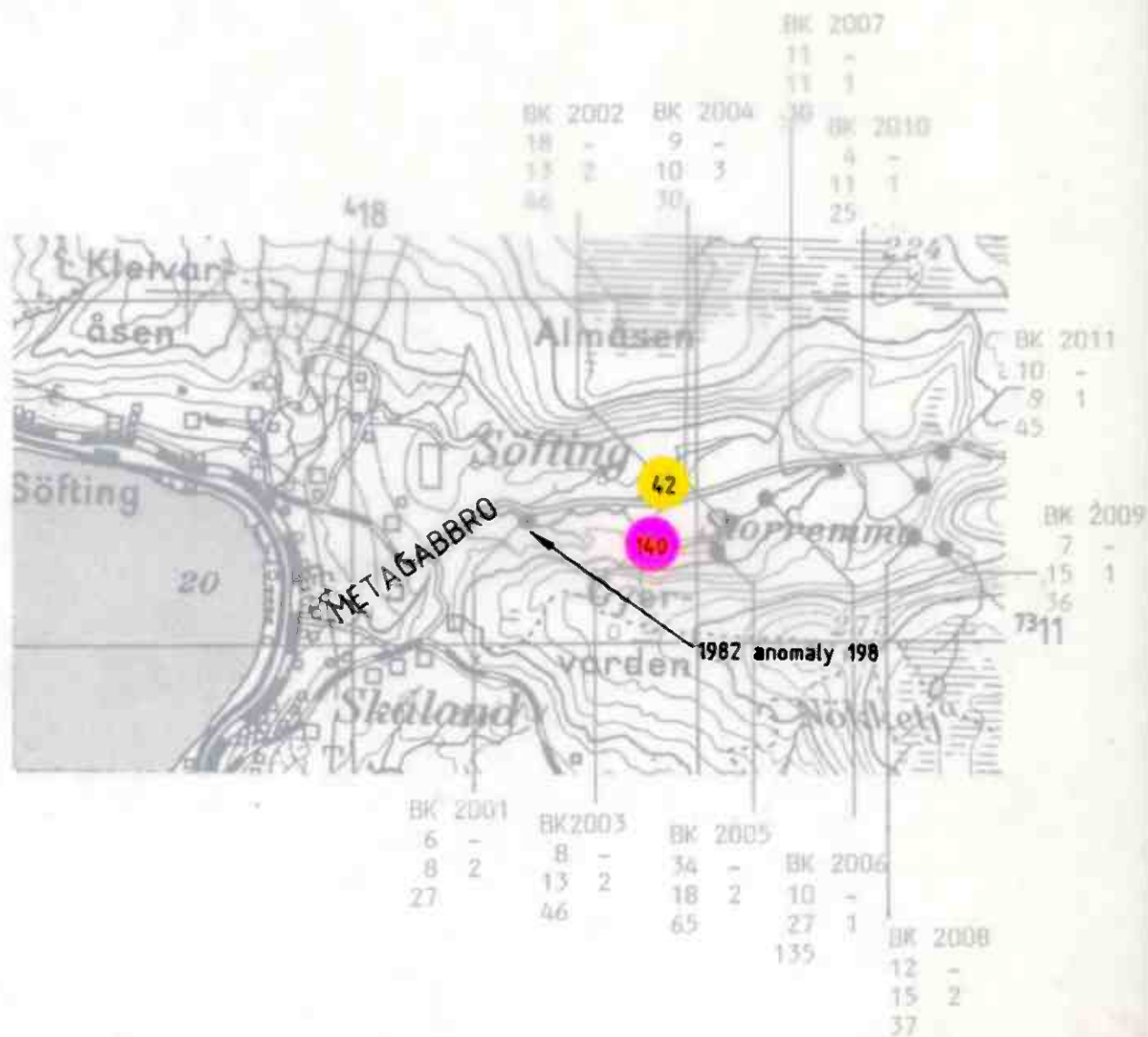
Lower part of stream partly in alluvial marine clay (silty and grey colour). No outcrops. Further up outcrops and big boulders of dioritic to gabbroic composition (talus), medium-grained, no homogenous structure. Partly pegmatitic veining with coarse-grained veins. Composed mainly of feldspar, quartz, tourmaline, magnetite and amph. as minor components.

Comments:

One high-range and one medium-range anomaly.

Recommendations:

To be followed-up with 117 Bjorknes, as geology similar.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 145 SØFTING
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Ukkelforen No 53 Size:1.0 km²

Claim location:Map sheet 1826 I Mosjøen

:Air Photo

:Oko Kart DL 185 I

Pegged: Yes-No---Partly Claim retained: Yes No

Stream length 1.0 km Drainage area: 1.0 km²

Original sample point (133 ppb Au) resampled:Yes-No

Follow up team: AK Duration:1.0day

Nos.of follow up samples VF 9001 - VF 9005

Description of drainage system:

Source on bedrock, flowing through a cleft with some talus, to a densely vegetated area with thick clay overburden.

Geology:

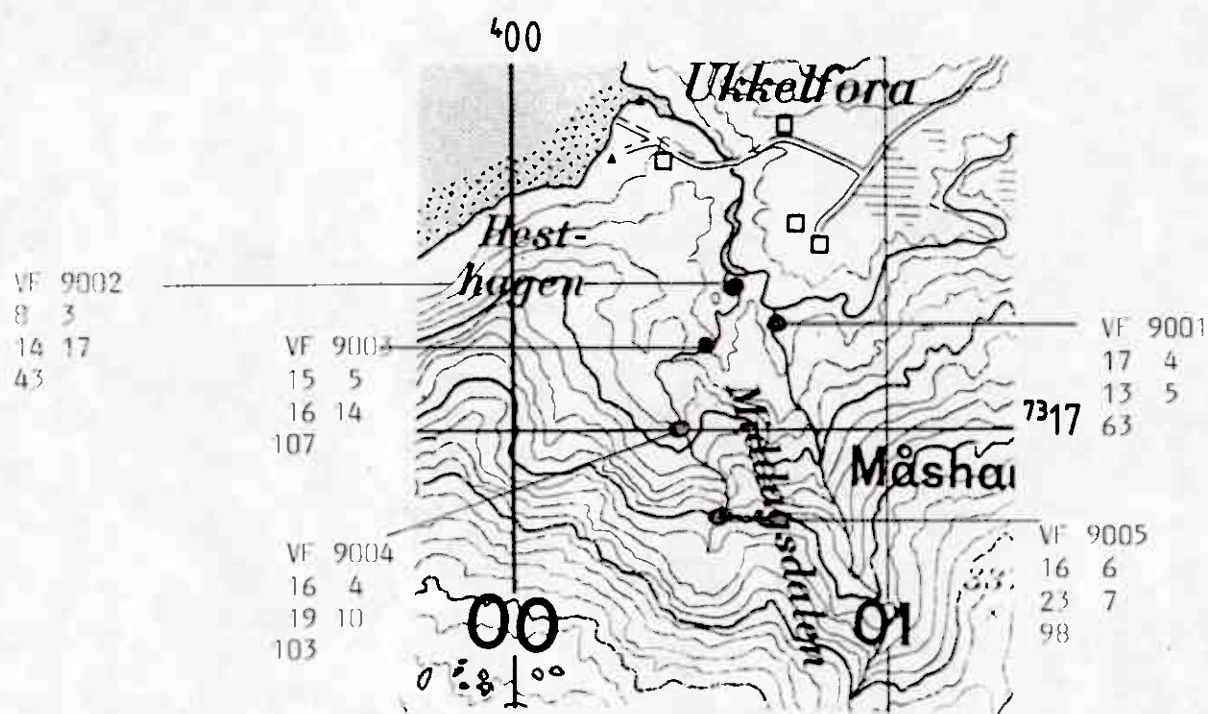
Dominated by mica-gneiss which becomes increasingly porphyritic upstream. Marbles occur locally. Boulders of rusty skarn were recorded in the stream.

Comments:

No gold anomalies detected.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 53 UKKELFØREN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Moinesdalen No 38 Size: 1.0 km²

Claim location: Map sheet 1826 I Mosjøen

Air Photo

Kart

Pegged: Yes---No Partly Claim retained: Yes No

Stream length 1.0 km Drainage area: 1.0 km²

Original sample point (2 ppb Au) resampled: Yes No

Follow up team: AK/CR Duration: 1.0 day

Nos. of follow up samples VF 9006 - VF 9013

Description of drainage system:

Source of two tributaries in a bog, flowing via clefts with small waterfalls and large boulders, down to pastureland, where they meet.

Geology:

Diorite and diorite-gneiss with schistose amphibolite, and marble interbedded in a complex manner.

Comments:

One low range gold anomaly detected, but no trace element anomalies.

Recommendations:

None

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Digermulen No 37 Size:1.0 km²

Claim location:Map sheet 1826 I Mosjøen

Air Photo

Okø Kart DM 184 IV

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 3.5 km Drainage area: 1.5 km²

Original sample point (2 pob Au) resampled:Yes-No

Follow up team: AK/CR Duration:1.0day

Nos.of follow up sample VF 9014 - VF 9024

Description of drainage system:

Rise by seepage and descent via small clefts and gulleys into a steep sloped, densely vegetated area which continues to the fjord, containing several karsted areas.

Geology:

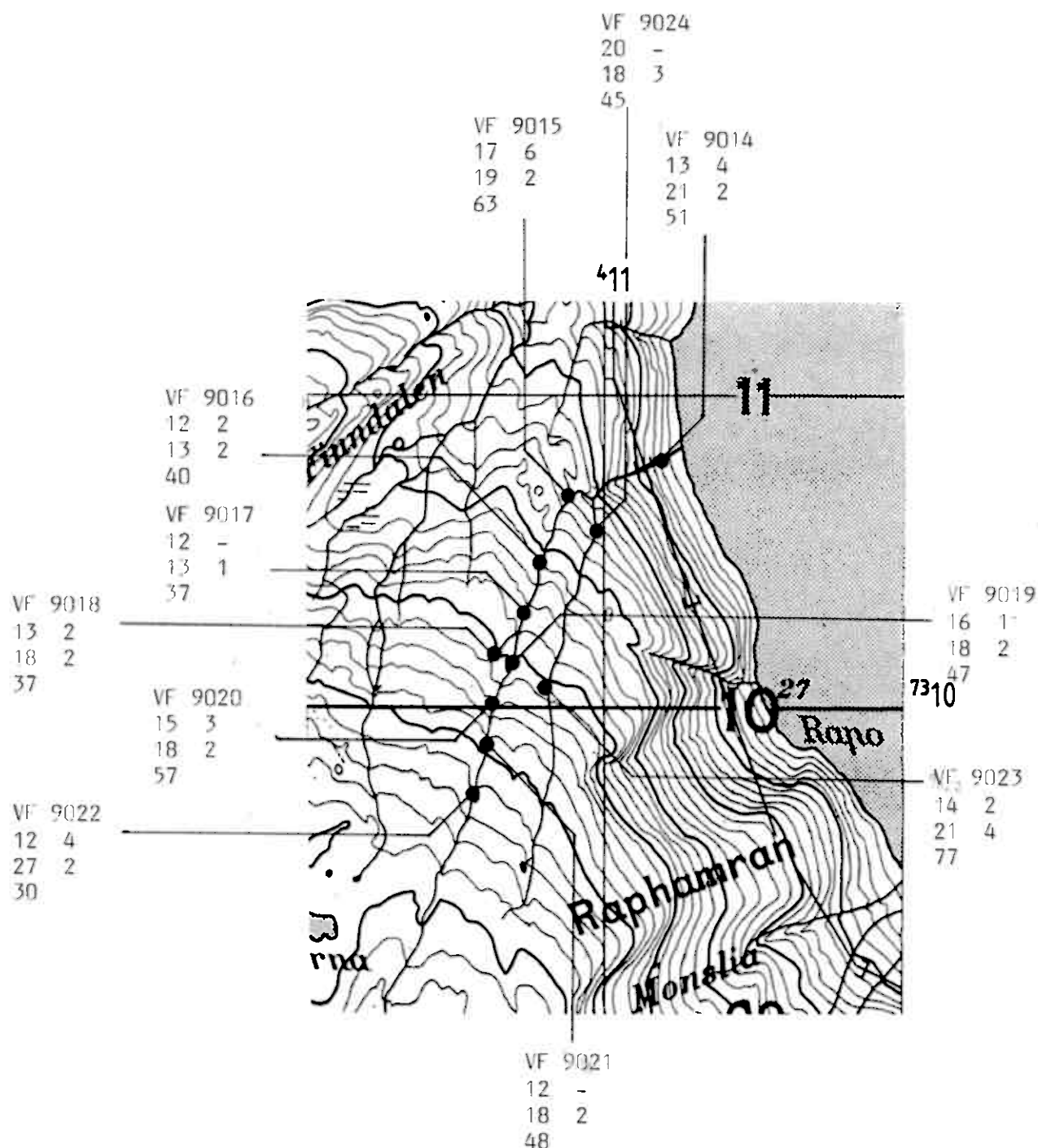
Granodiorite veined micaschists with small serpentinite pods at high elevations, which grade to granodiorite dominated terrain with migmatisation towards the shore. Several N - S trending intercalations of marble were recorded.

Comments:

No gold anomaly detected.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 37 DIGERMULEN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Storstuen No105 Size: 0.25 km²

Claim location: Map sheet 1928 I Mosjøen

:Air Photo

:Okø Kart DQ 183 III,IV

Pegged: Yes No-Pertly Claim retained: Yes No

Stream length 0.8 km Drainage area: 0.3 km²

Original sample point (8ppb Au) resampled: Yes No

Follow up team: OK/GT Duration: 1.0 day

Nos. of follow up sample : ST 4001 ~ ST 4007

Description of drainage system:

The anomalous stream drains a cirque area with sparse field, mire vegetation and good exposure. The bedrock is largely exposed.

Geology:

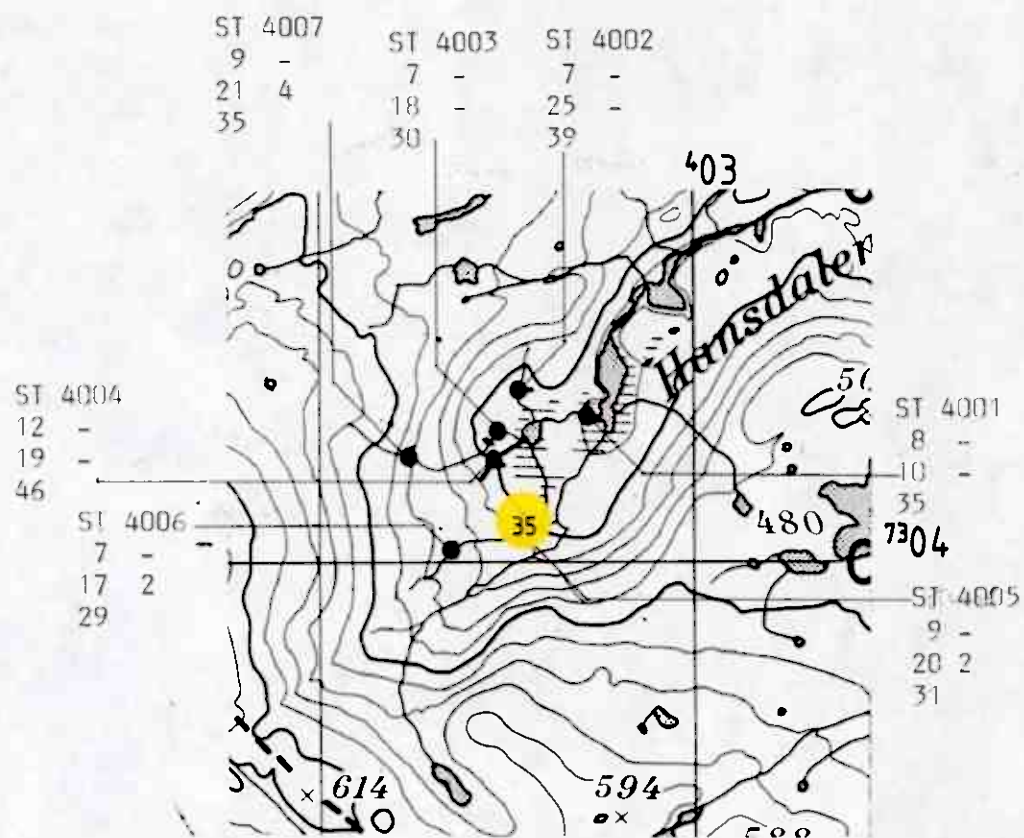
In the area an equigranular granodioritic rock type is predominant. At points 4002 and 4003 it contained m-sized angular xenoliths of a darker, biotite-rich variety. In the southern part (along stream where 4005 and 4006 were taken), the bedrock is more diverse with a migmatitic rock type with biotite schist/granodiorite, and also granodioritic gneiss, porphyritic granodiorite, pegmatitic and aplitic veining. The rock is sheared with boudins and flow structures. Above 4007 a stockwork area of small extent was found with pegmatitic veins of dm-size.

Comments:

One middle-range Au anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 105 STORTUEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Langvatn No7 Size: 0.5 km²

Claim location: Map sheet 1826 I Mosjøen

:Air Photo:

:Okø Kart:

Pegged: Yes-No--~~Partly~~ Claim retained: Yes No

Stream length 0.2km Drainage area: 0.2 km²

Original sample point (20 ppb Au) resampled: Yes No

Follow up team: OK/GT Duration: 1.0 day

Nos. of follow up sample : LV 4001 - LV 4004

Description of drainage system:

Stream drains a sparsely vegetated plateau area with bedrock cracks in m-scale. The catchment area is partly covered by organic soils underlain by pebbles of heterogeneous petrography.

Geology:

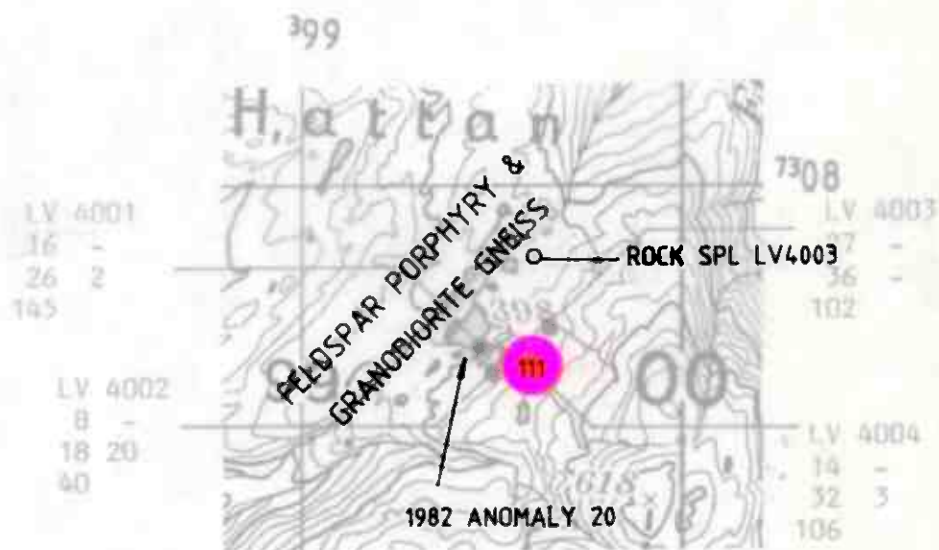
Area is dominated by a biotite gneiss which forms a migmatite with a biotite-poor granodiorite. The latter contains local clusters of cm-sized feldspar crystals. A rusty area of approx. 1x1m showed brassy and silvery sulfides. See rock sample 0300 LV 4003.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 7 LANGVATN
Scale 1:20.000

DEU 1A

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Herringbota No 125 Size: 1.0 km²

Claim location: Map sheet 1926 IV Drevja

:Air Photo D 018

10ko Kartv DO 182 IV

Tagged: Yes/No---Priority Claim retained: Yes/No

Stream length 1.5 km Drainage area: 1.0 km²

Original sample point (16 bob Au) resampled: Yan He

Follow up team: AS/OK/CB Duration: 2.0 days

Num. of follow up samples AD 4001 - AD 4018

Description of drainage system:

System originates on a moderate slope with tributaries in karst and seepage exits, flowing through a bog and thence via a v-shaped scar on to a slope conformable with bedrock schistosity, into a flat bottomed valley.

Geology:

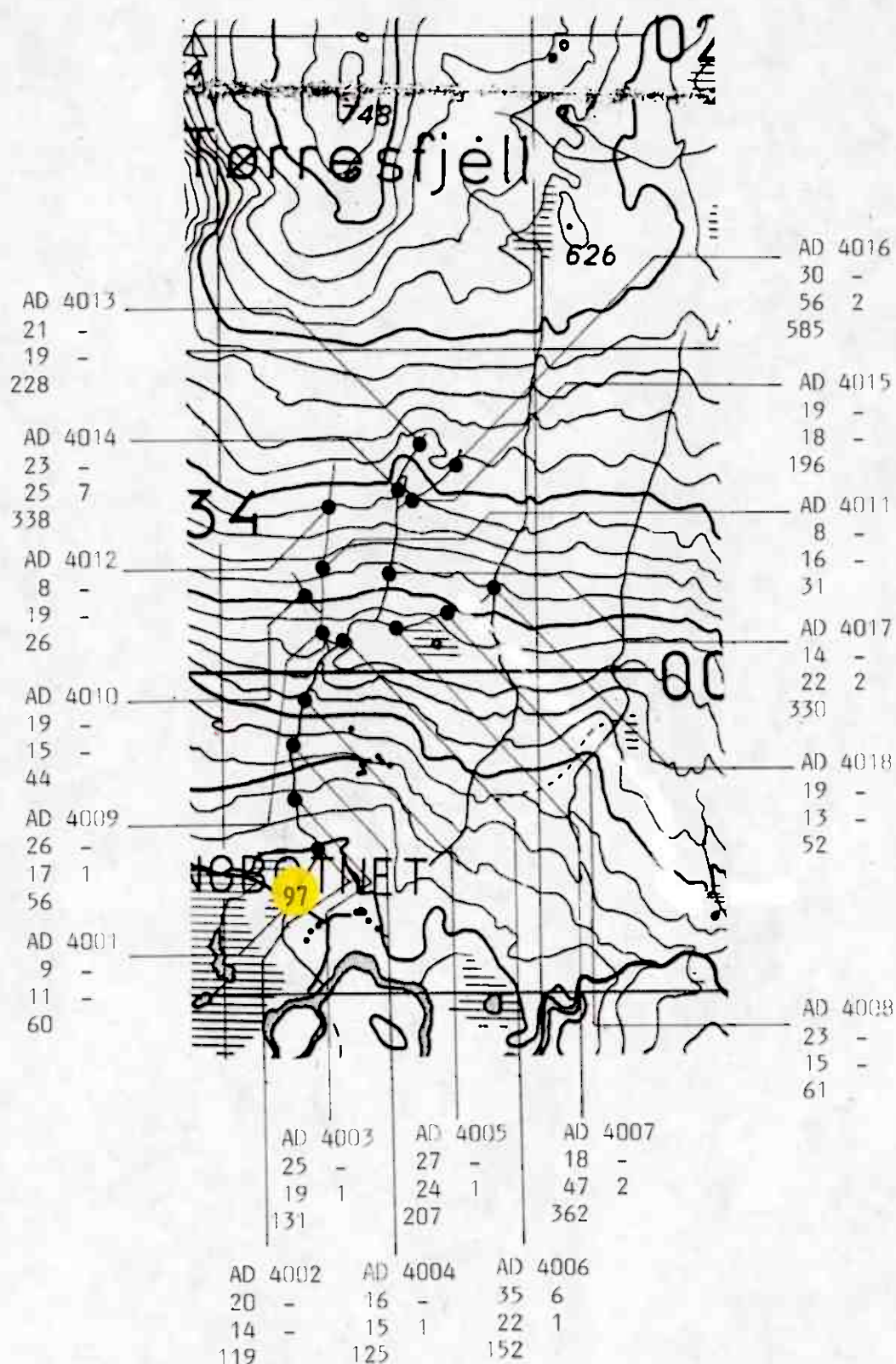
Biotite-muscovite-quartz-garnet schist and quartz-feldspathic gneiss together with marble, intruded by two generations of acid dykes, themselves cut by pegmatites. Silicification and texture destruction of the schists and gneisses in a 20 m long section was observed, which hosted pyrite/pyrrhotite impregnation. Molybdenite was detected at one locality. Quartz-pyrrhotite veining occurs in the tectonized contact zone between marbles and gneiss.

Comments:

Gold anomaly is confined to drift covered lower part of the drainage. High zinc-anomalies were followed up and sphalerite mineralization was detected in minor amounts as disseminations in the marble sequence, outcropping along the middle tributary. The thrust hosting the quartz-arsenopyrite-gold mineralization at Rauvatnet can be traced northward into the claim area described above.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 125 HERRINGBOTN
Scale 1:20.000

ANOMALY FOLLOW UP

HELGELAND PROJECT 1983

Claim Name: Markabygda No 120 Size: 1.0 km²

Claim location: Map sheet 1926 IV Drevja

Air Photo D 015

:Okc Kart DO 182 I

Record: Yes-No---Parent: Claim retained: Yes No

Stream length 0.75km Drainage area: 0.5 km²

Original sample point (43 opp Au) resampled:Yes-No

Follow up team: TK/HK Duration:1.0day

Nos. of follow up samples AD 7018 - AD 7024

Description of drainage system:

Stream rises in a bog and passes several karst tunnels. Clay was observed in the small stream (spl. 7020) that joins the main stream at the anomaly site. Resampling not performed due to possible contamination from track.

Geology:

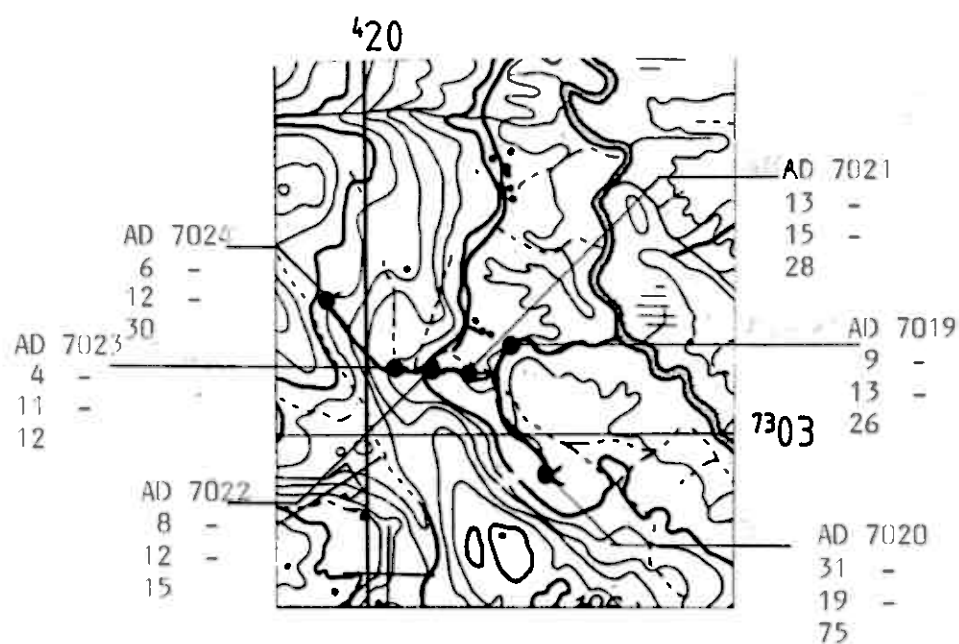
The upper 3/4 of the stream section was dominated by light-grey, white pure marbles grading into fine-grained, pelitic dark-grey marbles in the lower section.

Comments:

One middle range gold anomaly, without trace element association.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 120 MORKABYGDA
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Alsgarden No:102 Size:0.5 km²

Claim location:Map sheet 1926 IV Drevja

!Aix Photo E 019

!Oko Kart DO 181 I,III

Pegged: yes-No-Partly Claim retained: yes / No

Stream length 1.5 km/ Drainage area:1.5km²

Original sample point (35 ppb Au) resampled: Yes-No

Follow up team: KB/OK Duration:1.0 days

Nos. of follow up sample EI 5001- EI 5006

Description of drainage system:

The stream runs from the lake, 200 m asl. to the fjord. The first 400 m from the lake it is a small meandering stream with steepness increasing from 1 to 5 degrees. It passes then through a 5-10 m deep canyon with a slope about 7 - 10 degrees and turns into a very steep waterfall, about 100m high. 300 m downstream from the fall a small tributary enters. From the fall and until it passes the railway the stream meanders through thick overburden.

Geology:

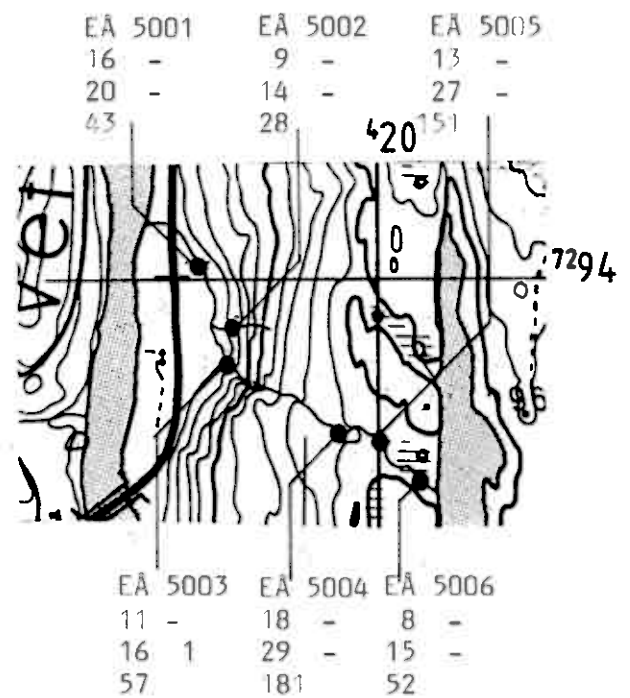
The meandering part has sporadic outcrops of gneiss. The canyon is in granodiorite and some micaschist. Further downstream the granodiorite becomes increasingly more foliated.

Comments:

No gold anomalies detected. Trace and base metal values at background level.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 102 ALSGÅRDEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Herring No 121 Size: 1.5 km²

Claim location: Map sheet 1926 IV Dravda

!Air Photo

!Oko Kart

Pegged: Yes-No-Partly Claim retained: Yes No

Stream length 1.5 km Drainage area: 0.5 km²

Original sample point (245 ppb Au) resampled: Yes No

Follow up team: JT/OK/GT Duration: 1 day

Nos. of follow up samples AD 0001 - AD 0008

Description of drainage system:

Stream flows through gently sloping boggy terrain. Possible contamination from rubbish dump in samples 0001-0004.

Geology:

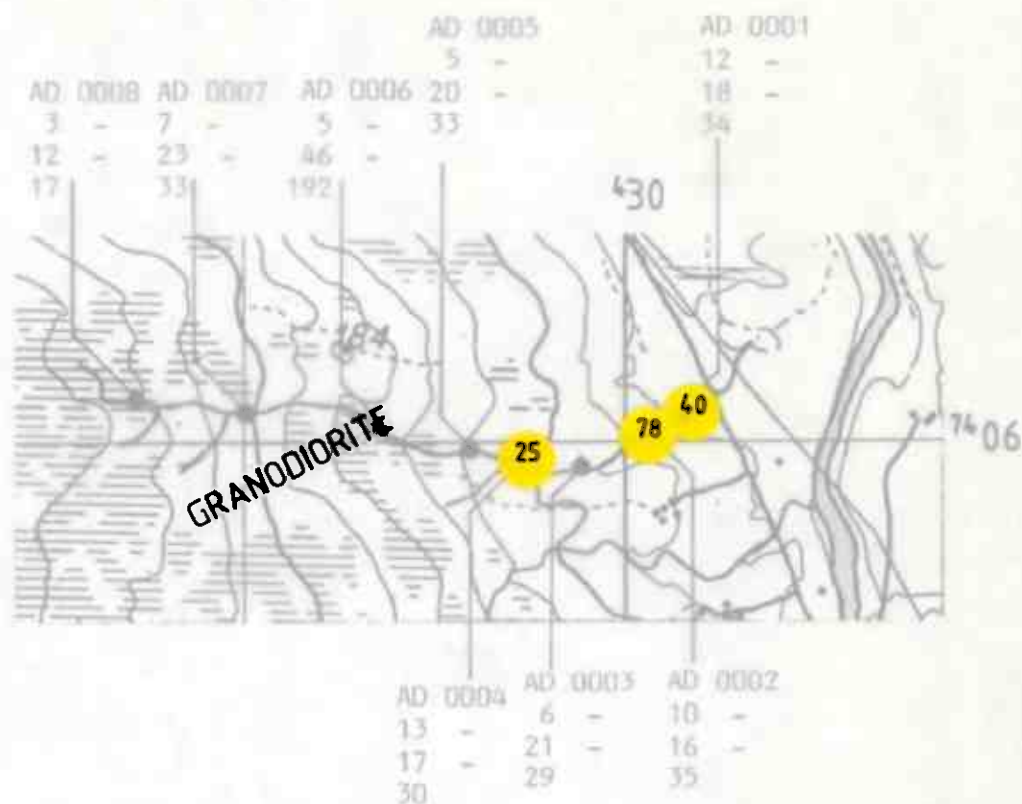
Diorite - granodiorite with horizons of garnetiferous quartz-mica schist and quartzites.

Comments:

Low to middle range gold anomalies in area of possible contamination.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 121 HERRING
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Almdalen B No 123 Size: 0.25 km²

Claim location: Map sheet 1926 IV Drevja

:Air Photo

:Okø Kart

Pegged: Yes No-Perety Claim retained: yes/ No

Stream length 1.2 km Drainage area: 0.25km²

Original sample point (22ppb Au) resampled: Yes No

Follow up team: GT/JT Duration: 1 DAY

Nos.of follow up samples AD 2001 - AD 2007

Description of drainage system:

Stream rises in a bog and descends over thin boggy overburden, thence through a heavily forested rea via a deep v-shaped valley having steep slopes

Geology:

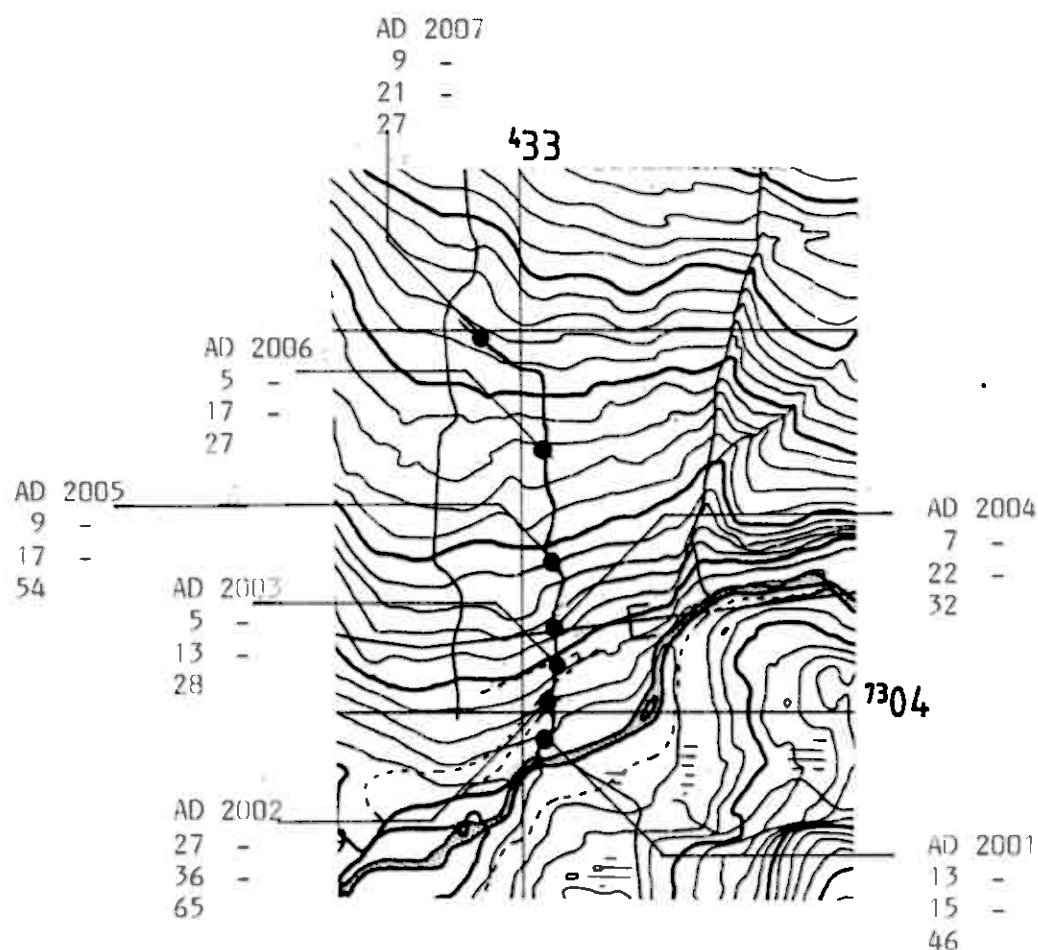
Biotite-quartz schists with abundant pegmatite and granite veining

Comments:

Only one sample with Au>10ppb. Thick overburden at this sample point(=1982 sample point)

Recommendations:

None recommended.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 123 ALMDALEN B
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Storvik No 118 Size: 0.25 km²

Claim location: Map sheet 1928 IV Drevja

:Air Photo C 017

:Oko Kart DR 195 III

Pegged: Yes No-Partly Claim retained: yes/ No

Stream length 1.0 km Drainage area: 0.25km²

Original sample point (36ppb Au) resampled: Yes No

Follow up team: CR/AK Duration: 1.0days

Nos. of follow up samples AD 8001 - AD 8005

Description of drainage system:

Tributary sample originates in a karst outlet in moderately sloped, densely vegetated and karsted area, terminating in a dried-out lake area with thick overburden of clay and soil.

Geology:

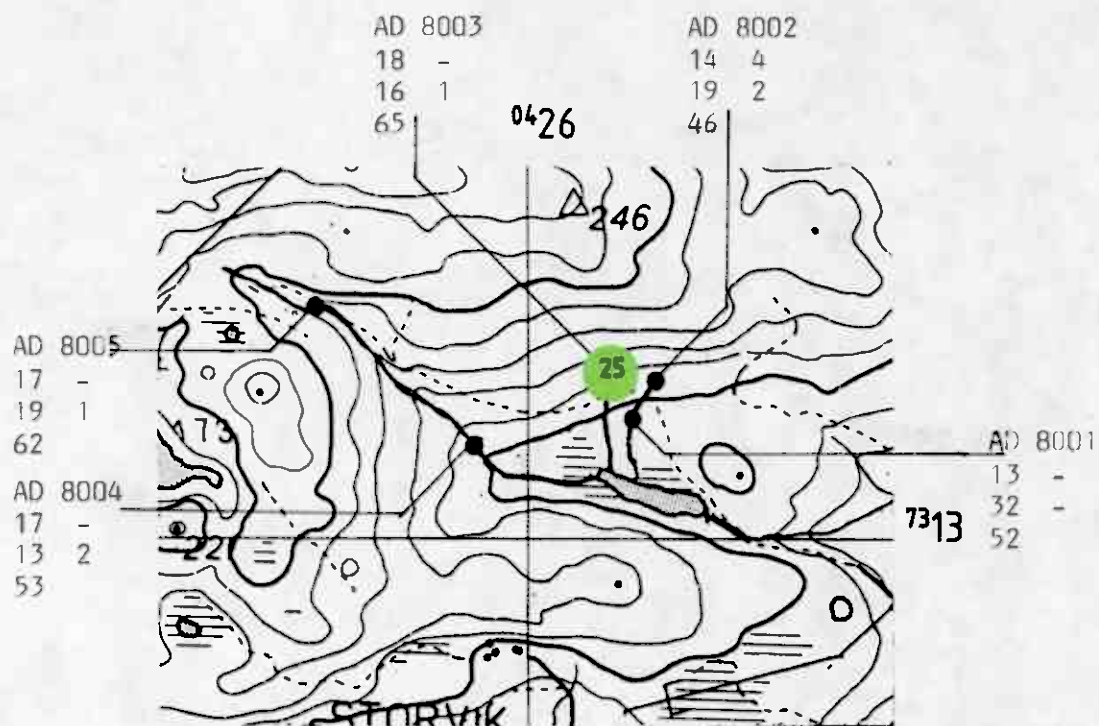
Predominantly marble with horizons of graphite schist and amphibolite locally. A weak pyritic impregnation occurs in the smelly marble, while pyrite also occurs in conformable quartz-tourmaline and granodioritic veining.

Comments:

A lithogeochemical follow-up resulted in only one pyrrhotitic mineralization having 30 ppb Au.

Recommendations:

None recommended.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 118 STORVIK
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Reinfjell No 79 Size:0.75 km²

Claim location:Map sheet 1926 IV Drevja

 :Air Photo D 018

 :Oko Kart DQ 181 III

Pegged:Yes No Partly Claim retained: Yes No

Stream length 1.0 km Drainage area: 1.0 km²

Original sample point (35 ppb Au) resampled: Yes No

Follow up team: JT/GT Duration:1.0day

Nos.of follow up samples AD 2008 - AD 2010

Description of drainage system:

Rises in plateau,descending via boggy area with numerous tributaries,thence down a steep forested boulder slope into a swamp with thick overburden.

Geology:

Massive equigranular granodiorite,hosting abundant undeformed pegmatite veins ranging from 1cm - 30cm in width.

Comments:

One middle range gold anomaly,without trace element association.

Recommendations:

None

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kjonnasen I No 085 Size: 1.0 km²

Claim location: Map sheet 1826 IV Drevja

:Air Photo

:Okc Kart

Pegged: Yes Ho-Perby Claim retained: yes/ No

Stream length 1.0 km Drainage area: 1.5 km²

Original sample point (55ppb Au) resampled: Yes No

Follow up team: TK/AK Duration: 0.5days

Nos.of follow up samples AD 7014 - AD 7018

Description of drainage system:

Stream rises in small lake, descending steeply into bogs at several elevations, separated by rapids. Possible contamination from carbon-zinc batteries.

Geology:

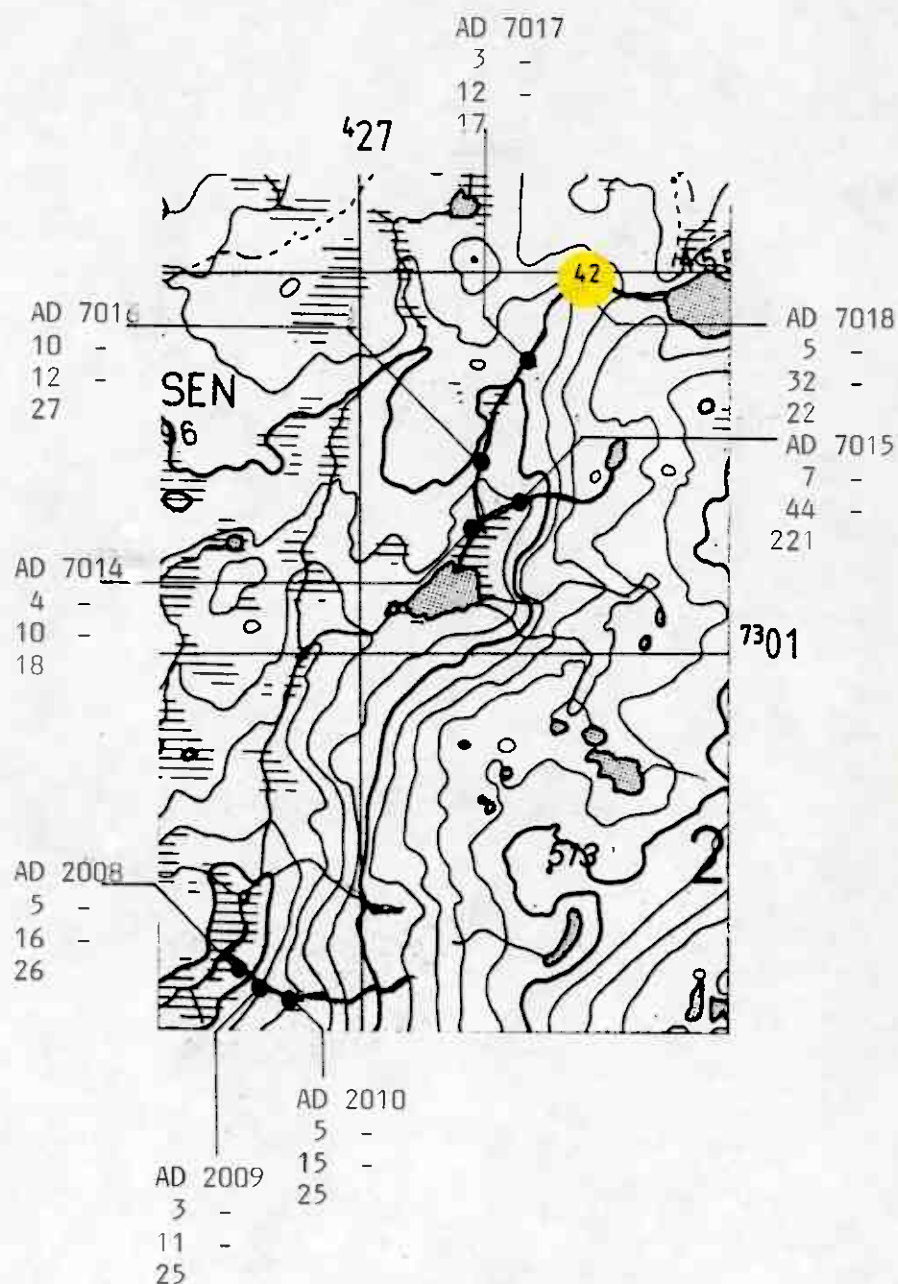
Dominated by medium-grained biotite granite with abundant tourmaline bearing pegmatites. No skarning apparent at contact with marbles and calc-schists.

Comments:

Possible contamination, especially regarding zinc.

Recommendations:

None recommended.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 79+85 REINFJELL +
Scale 1:20.000 KJØNNÅSEN I

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kjønnasen III No 124 Size: 0.75 km²

Claim location: Map sheet 1928 IV Drevja

:Air Photo

:Okø Kart

Pegged: Yes No -- Pecch Claim retained: Yes No

Stream length 1.0 km Drainage area: 1.5 km²

Original sample point (35 ppb Au) resampled: Yes No

Follow up team: TK/HK Duration: 0.5 day

Nos. of follow up samples AD 7010 - AD 7013

Description of drainage system:

Stream emerges from a karst cave at the edge of a bog and flows through a couple of bogs at different levels, separated by a marble ridge, continues over bedrock (marble/calc schist) until it joins another stream below original anomaly sample point.

Geology:

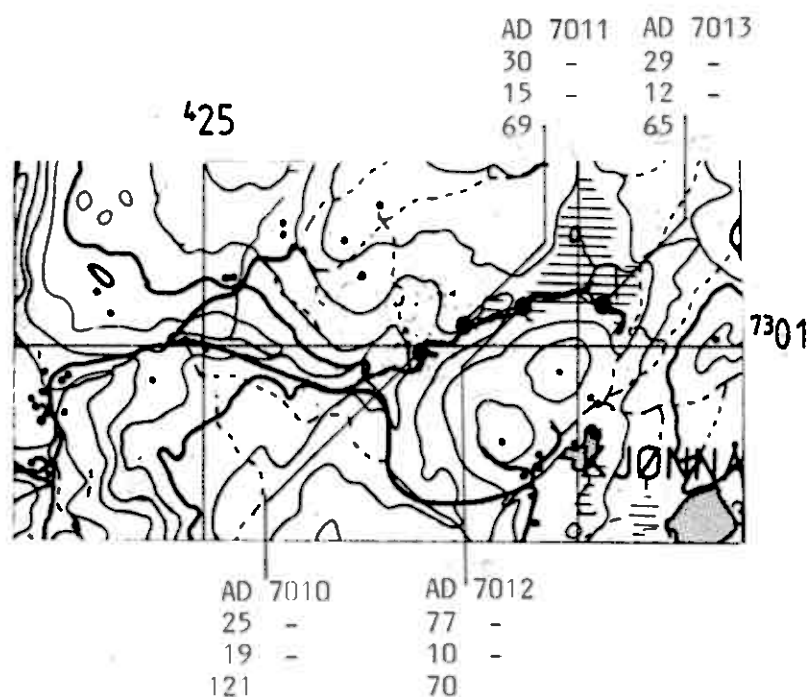
Marbles interbedded with calc-schist, easily recognizable by dense vegetation cover, are surrounded by acid intrusives. The marbles can contain pyrite/pyrrhotite disseminations. East of the source graphite schists were recorded.

Comments:

Low to middle range gold anomalies in area of possible contamination.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 124 KJØNNÅSEN III
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Almdalen A No 122 Size: 8.5 km²

Claim location: Map sheet 1926 IV Drevja

Air Photo

Okø Kart

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 1.5 km Drainage area: 0.75km²

Original sample points (9,24,25/14,36,148 ppb Au) resampled: Yes
No

Follow up team: IF/TK/HK/OK/GT/HB/JT Duration: 1 DAY

Nos. of follow up samples AD 7001 - AD 7009, AD0101-AD0115,
AD0009-AD0019

Description of drainage system:

Stream descends from small lake in bog, thence via a narrow steep course over bedrock via small rapids/falls to a terrace above the river Herring through which it descends gently via broad channels out in Boulder/gravel overburden to the original anomaly point.

Geology:

In lower river terrace area is unknown. In upper area: intermediate (biot-musc-felsp) to acid (musc-felsp-qtz and felsp-qtz-garnet-musc) intrusives strongly predominant. At highest elevations probably interlayered with pelitic (biot-felsp-qtz) metaseds. Small local development of pegmatites, local very thin vuggy quartz veins.

Comments:

See 86 Kjonnsen II

Recommendations:

See 86 Kjonnsen II

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Kjonnasen II No 86 /Size:1.0 km²

Claim location:Map sheet 1926 IV Drevja

 :Air Photo D 018

 :Okø Kart P 182 IV, Q 182 IIIK

Pegged:Yes No-Partly Claim retained: yes/ No

Stream length 1.5 + 0.5 km Drainage area: 1.5 km²

Original sample point (8,24,8,8,44ppb Au) resampled:Yes No

Follow up team: OK/KA Duration: 2.0days

Nos.of Follow up samples AD 4908 - AD 4921

Description of drainage system:

System drains the northern slopes of Reinfjellet. At lower altitudes bedrock crops out at relatively few places (overburden, mires, vegetation). At higher altitudes, bedrock is largely exposed. Mires are common along the streams.

Geology:

Bedrock is uniform in area. Granodiorite dominates and holds in places acidic veins which may form stockworks. Stream pebbles and glacial material show varying petrography.

Comments:

Although a source has not yet been recognized, the number of Au anomalies detected in this area (See also 1982), and the adjoining claim areas (112 Almdalen A, 146 Kjonnasen IV), together with high As values, precludes immediate dropping of the area.

Recommendations:

Detailed lithogeochemical search in headwater areas. Approx. 2-3 team days on the three claim areas.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kjonnasen IV No 146 Size: 1.0 km²

Claim location: Map sheet 1926 IV Drevja

 : Air Photo D 018, E 018

 : Gko Kart

Pegged: Yes No-Partly Claim retained: yes/ No

Stream length 0.8 + 0.5 km Drainage area: 0.75km²

Original sample point (160ppb Au) resampled: Yes No

Follow up team: OK/KA Duration: 1.0 days

Nos. of follow up samples AD 4901 - AD 4907

Description of drainage system:

System consists of two main streams which drain northernmost part of Reinfjellet. The western one is larger and includes a lakelet system.

Geology:

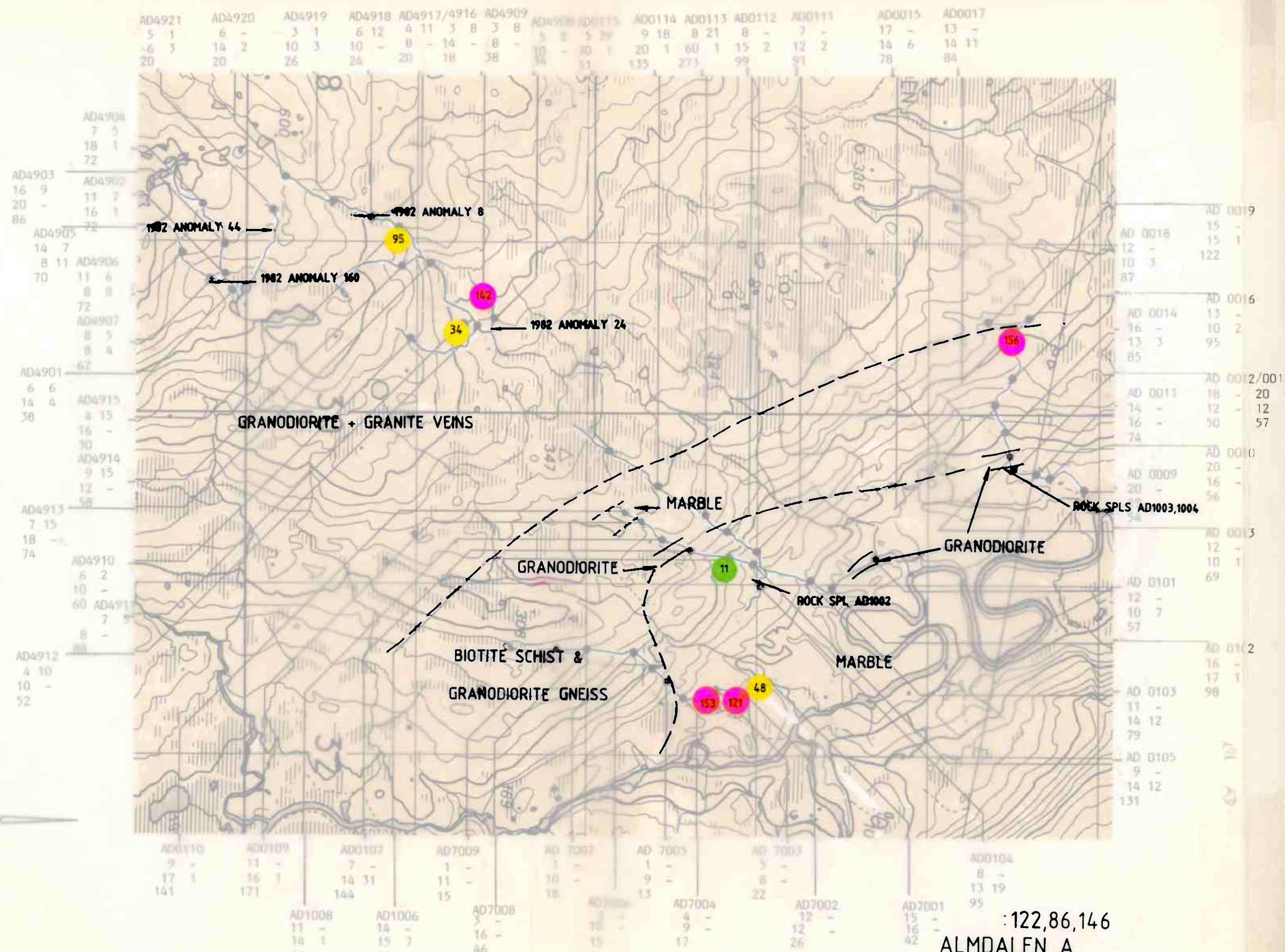
Area is quite uniform with granodioritic bedrock which in places is gneissose. Acidic veins occur (in some areas forming stockwork). A small outcrop of mafic rock and a marble lens were found close to southern pegging point. UV-hunting in area of 180157 did not show any scheelite in bedrock nor in stream sediment.

Comments:

See 86 Kjonnasen II

Recommendations:

Ditto.



ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Utgard No103 Size: 1.0 km²

Claim location: Map sheet 1926 IV Drevja

 : Air Photo C 015

 : Oko Kart DD 125 III

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 1.5km Drainage area: 1.0km²

Original sample point (45 ppb Au) resampled: Yes No

Follow up team: GT/OK Duration: 1.0day

Nos. of follow-up sample : BK 6001 - BK 6013

Description of drainage system:

System drains a forested hillside. Drainage goes partly through karst into a farming area where the streams have cut 5-10m through the sediments. Vegetation is generally dense.

Geology:

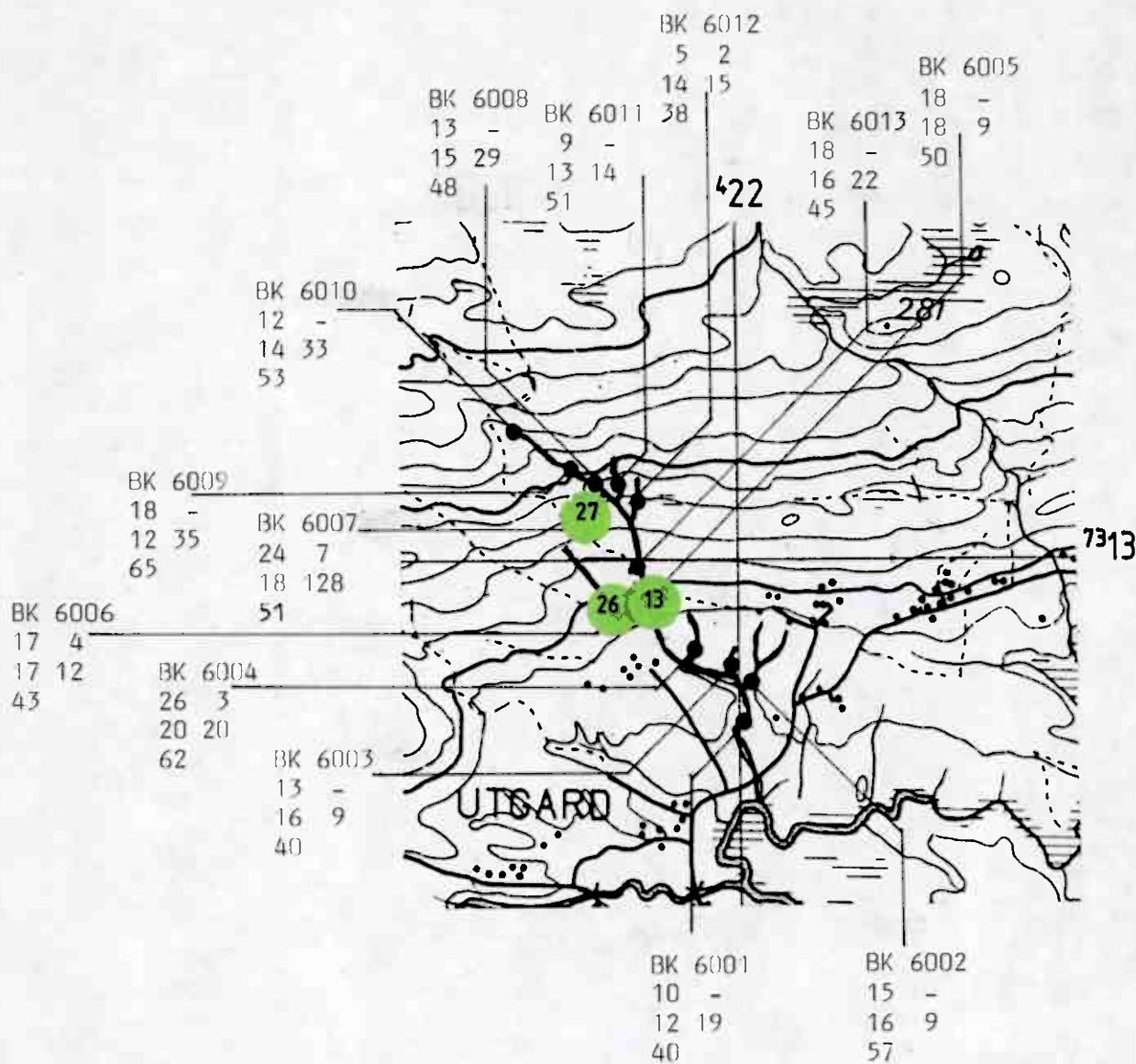
Along streams, marble is the most common rock type. In addition, a sulphide-bearing amphibolitic rock and a greenish metasedimentary rock have been found. The latter carried pyrrhotite in one outcrop. Clay was found in farm area sediments.

Comments:

Three low-range Au anomalies detected.

Recommendations:

To be followed-up with 145 Softing and 117 Bjorknes as geology is similar.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 103 UTGARD
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:RokasenNo:134 Size:0.5 km²

Claim location:Map sheet 1826 I Mosjøen 1926 IV Drevja

:Air Photo

:Okø Kart DO 185 III

Pegged:Yes No--Partly Claim retained: yes/ No

Stream length: 0.7 km/ Drainage area:0.5km²

Original sample point (84ppb Au) resampled: Yes No

Follow up team: IF/TO Duration:0.5 days

Nos. of follow up sample: BK 1011- BK 1015
BK 6101- BK 6103

Description of drainage system:

The stream rises at a seepage point in thick talus material, descending via small meanders through thickly vegetated slopes to a broad bog (peat over gravels) with very broad meanders to the original sampling point (180249).

Geology:

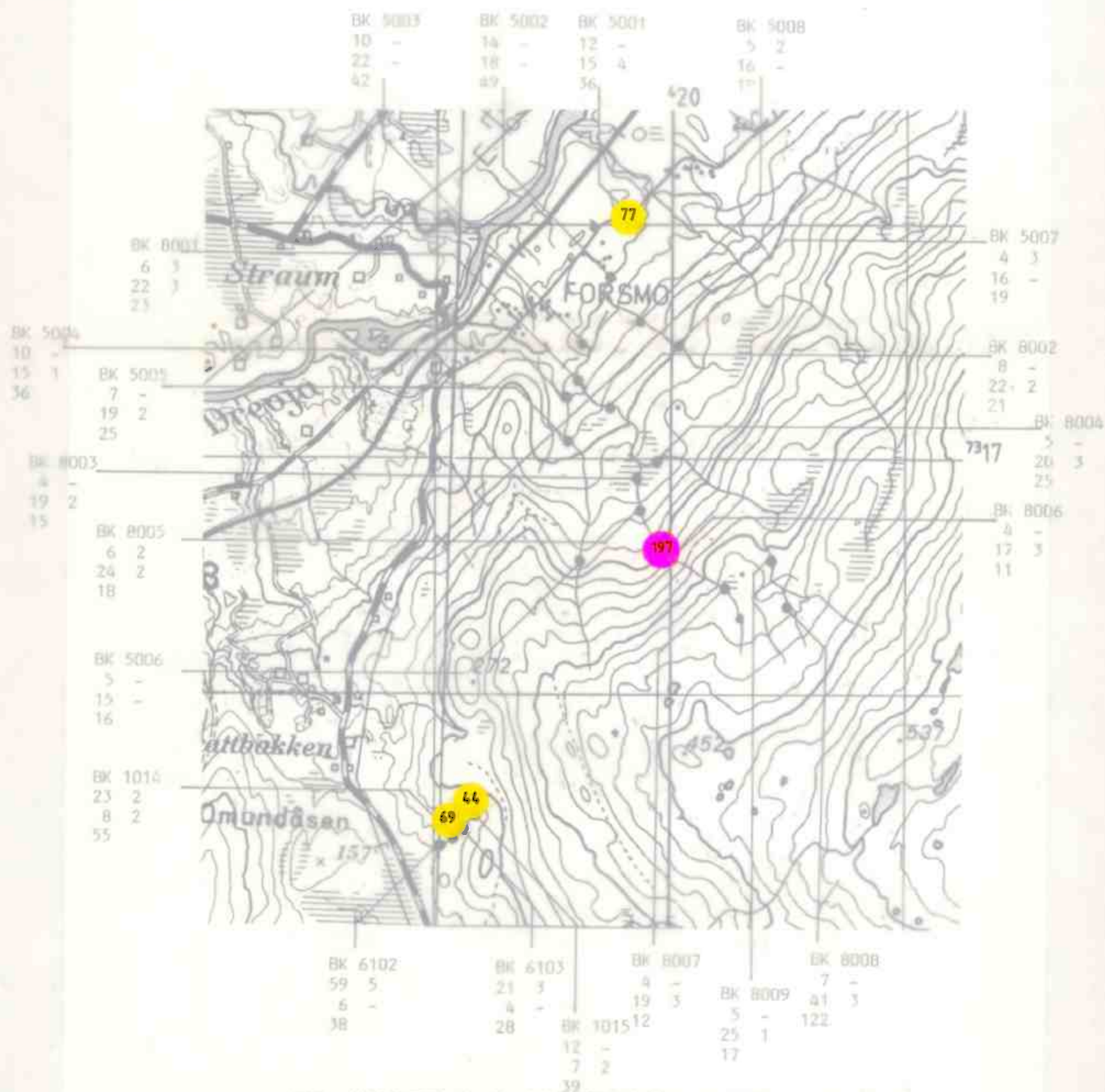
The only lithology exposed in the stream is coarse grained gabbro, followed by abundant variably schistose amphibolite at higher levels. Fine-medium grained pyrrhotite impregnation is not uncommon. A few hundred meters to the SSE, grey, finely banded marbles are exposed. Blocks reveal some calc-silicate skarning.

Comments:

All stream sediment samples collected returned with medium level gold anomalies. Trace element concentrations are low. Three bank samples returned no gold anomaly suggesting that gold is present in the active stream sediment.

Recommendations for further follow up:

Further follow up is not of high priority, however it is recommended to retain the claim, as further anomalies occur around the gabbro intrusion. Follow up of these anomalies, with less overburden should clarify if the contact aureole of the gabbro to the metasediments carries significant mineralization.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name : 134 ROKÅSEN + 162 FORSMO
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Forsmo No162 Size: 2.25 km²

Claim location: Map sheet 1926 IV Drevja

!Air Photo B 014

!Okø Kart

Pegged: Yes No--Partly Claim retained: Yes No

Stream length 2.5km Drainage area: 2.5km²

Original sample points 8, 8ppb Au) resampled: Yes No

Follow up team: CR/AK KA/KB Duration: 2.0day

Nos. of follow-up samples : BK 5001 - BK 5009

BK 5001 - BK 5008

Description of drainage system:

System drains a forested hillside. Drainage goes partly through karst into a farming area where the streams have cut 5-10m through the sediments. Vegetation is generally dense.

Geology:

Along streams, marble is the most common rock type. In addition, a sulphide-bearing amphibolitic rock and a greenish metasedimentary rock have been found. The latter carried pyrrhotite in one outcrop. Clay was found in farm area sediments.

Comments:

Three low-range Au anomalies detected.

Recommendations:

To be followed-up with 145 Softing and 117 Bjorknes as geology is similar.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Strauman No140 Size: 0.75 km²

Claim location: Map sheet 1926 IV Drevja

 : Air Photo B 016

 : Oko Kart DP 185 II

Pegged: Yes No --- Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 2.0km²

Original sample point (188 ppb Au) resampled: Yes No

Follow-up team: TK/HK JT/GT Duration: 2.0day

Nos. of follow-up samples : MJ 7001 - MJ 7011

 MJ 6001 - MJ 6004

Description of drainage system:

Source of tributaries in inaccessible slope, stream bed being bedrock along most of the system. Blue post-glacial clay locally abundant.

Geology:

Garnet-rich mica-schists and gneisses, local pegmatites and quartz lenses.

Comments:

One high-range, 4 medium-range and 2 low-range Au anomalies detected.

Recommendations:

Detailed geology/litho geochemistry, to be followed up with 141 Mjavatnet.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Bjorknes No117 Size: 1.75 km²

Claim location: Map sheet 1926 IV Drevja

 : Air Photo C 015

 : Oko Kart DO 185 I,II,III,IV

Pegged: Yes No --- Priority Claim retained: Yes No

Stream length 3.0km Drainage area: 2.0km²

Original sample points (245, 22ppb Au) resampled: Yes No

Follow up team: IF/TO Duration: 1.0 day

Nos. of follow-up sample : BK 1001 - BK 1010

Description of drainage system:

Two rivers sampled: a) southern: sources via seepage from beneath heavily vegetated overburden of boulders and gravel, descends via channels cut in same through pastureland to original sample point (180228), b) northern: rises in a bog draining gabbro hills, descends via rapids through gravel and clay overburden to original anomaly point (180228).

Geology:

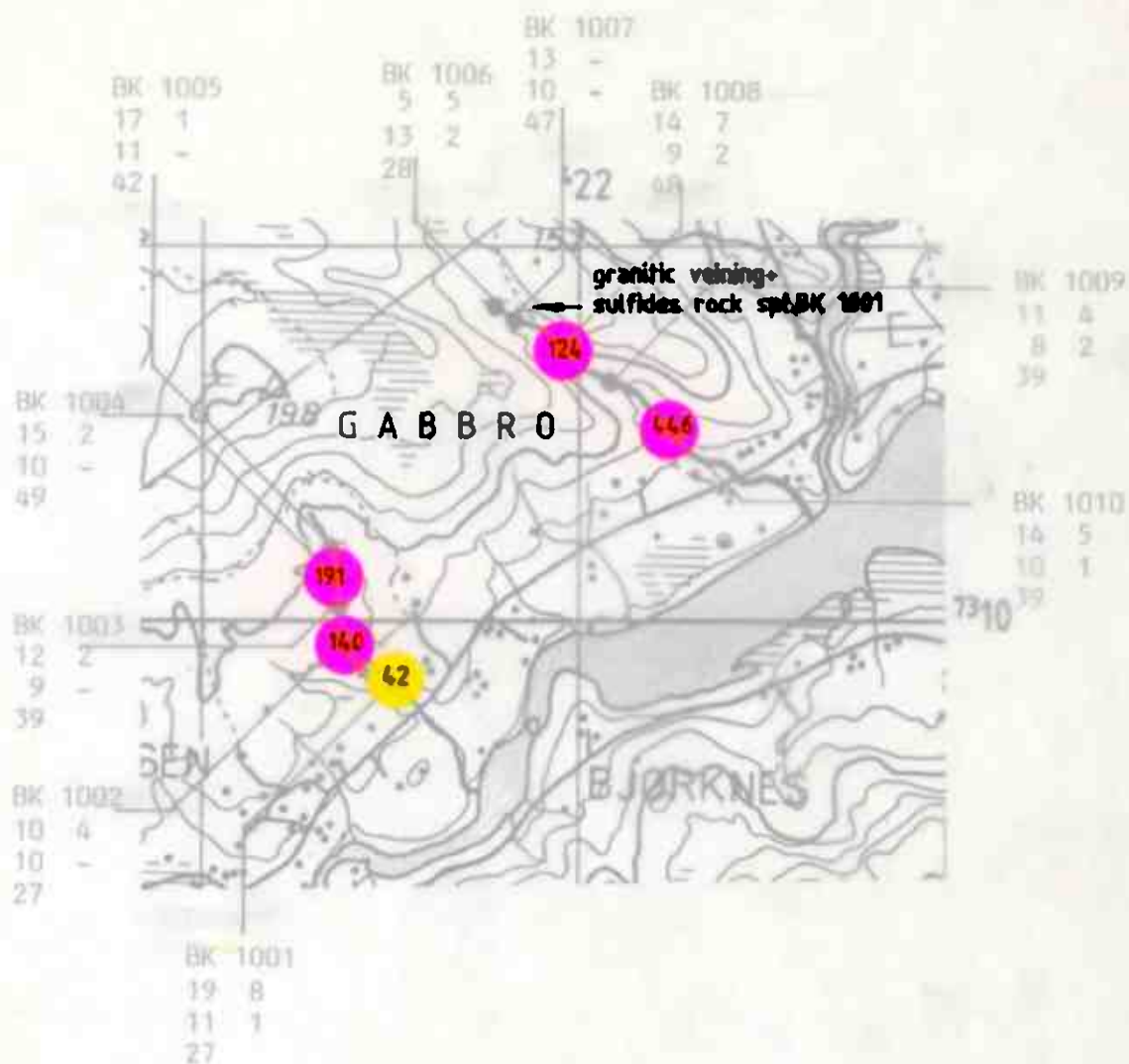
From what little is exposed at lower levels and (better) near the stream sources, the area appears to be mainly homog. gabbro. In the vicinity of sample BK 1007 however, (at least) the gabbro is net-veined by thin (dm) granitic veins and quartz, with loc. abundant pyrrhotite mineralization. (Sample BK 1001 rock chip).

Comments:

Four high-range (to 446ppb) and one medium-range anomaly detected in both streams. Rock sample BK 1001 did not return with Au values.

Recommendations:

Deep overburden sampling of the area. Approx. 3-4 team days.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 117 BJØRKNES
 Scale 1:20,000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Mjavatnet No141 Size: 4.25 km²

Claim location: Map sheet 1926 IV Drevja

:Air Photo B 016

:Oko Kart DP 185 IV

Pegged: Yes No---Pertty Claim retained: Yes No

Stream length 4.0km Drainage area: 4.5km²

Original sample point (69 ppb Au) resampled: Yes No

Follow up team: HB/GT OK/KA Duration: 2.0days

Nos. of follow-up samples : MJ 0001 - MJ 0014

MJ 4001 - MJ 4013

Description of drainage system:

Active sediment development is certain. Flat plateaus at estuary and between 160 and 180m above sea level are covered with residual soils and bogs. Drainages system is accurate in 1:50,000 map sheet. Bedrock is exposed in 80% of all stream sections.

Geology:

Metasedimentary units 220°/75° SW predominantly biotite-quartz schists and garnet-amphibolite schists. Subordinate massive bands (up to 30m wide) of pale brown quartzites. At approx. 500m above sea level the contact to an leucogranite was encountered in all stream sections. Blocks and boulders in decreasing order of abundance:

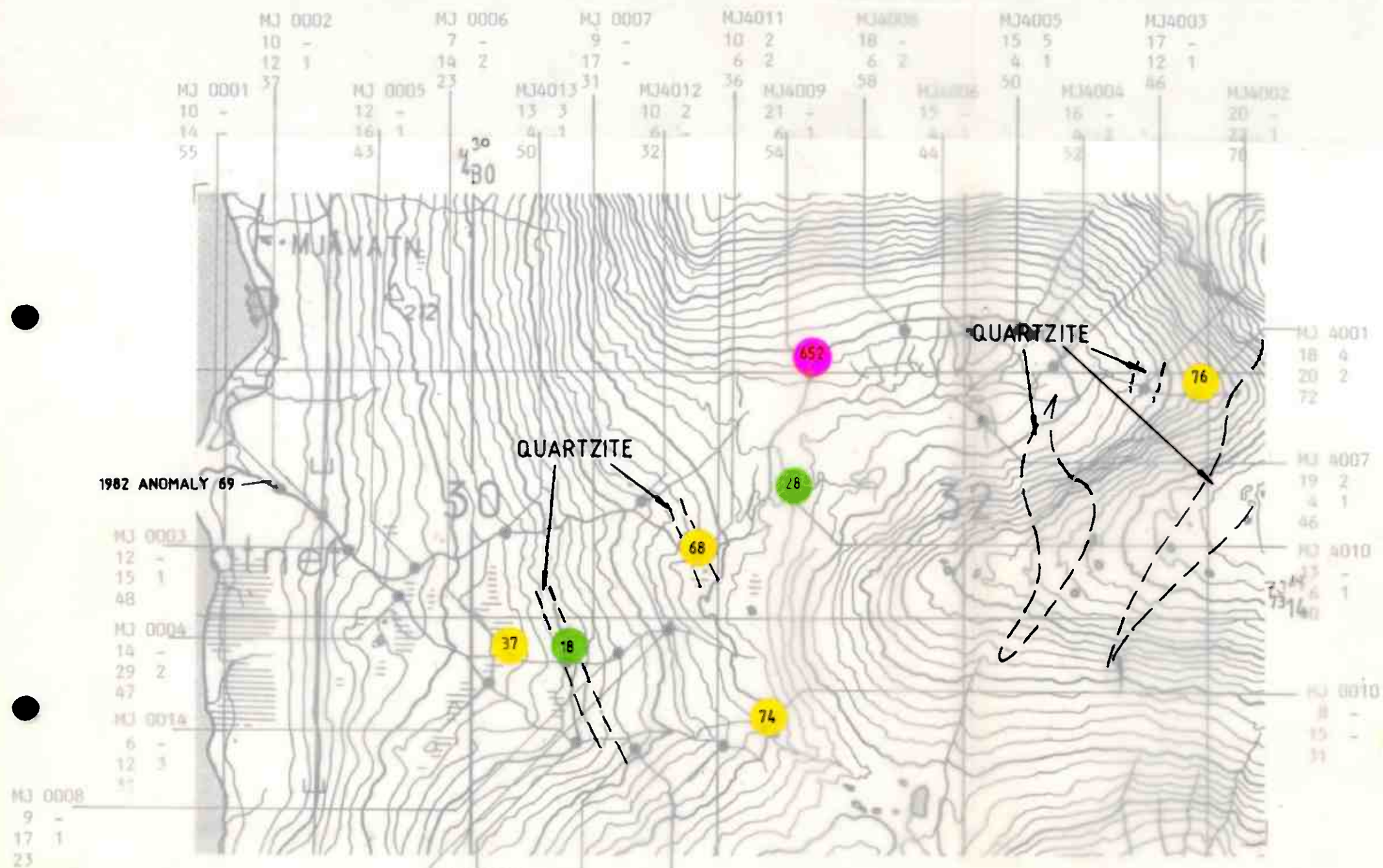
- 1) quartz-feldspar-muscovite coarse-grained pegmatite. Also observed as 10cm wide veins (disrupted tectonized) in garnet amphibolite.
- 2) Pale brown coarse-grained quartz veins with sparse sulfides.
- 3) Strongly rusty stained and silicified intrusives. Fresh rocks show a equigranular intrusive composition of biotite and feldspar quartz deficient.
- 4) Flaty blocks of fine-grained dense grey-black siliceous material with intense sulfur smell. Composition of sulfides unclear as fabric is too fine-grained.

Comments:

1 high-range, 4 med-range and 2 low-range Au anomalies.

Recommendations:

Detailed geology/lithogeochemistry with 140 Straumen.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS

Claim block/No./Name : 141 MJÅVATNET
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Jamtffjelldalstjonn No 71 Size:1.0 km²

Claim location:Map sheet 1928 IV Drevja

 :Air Photo E 019

 :Oko Kart DQ 181 IV,R 181 III

Pegged: Yes-No---~~Partly~~ Claim retained: Yes No

Stream length 1.0 km Drainage area: 0.5 km²

Original sample point (8 ppb Au) resampled: Yes No

Follow up team: KA/KB Duration:1.0day

Nos.of follow up sample : RV 5001 - RV 5005

Description of drainage system:

The stream is quite small, only 0.5 m wide and 20.-30cm deep, running over a series of small falls.

Geology:

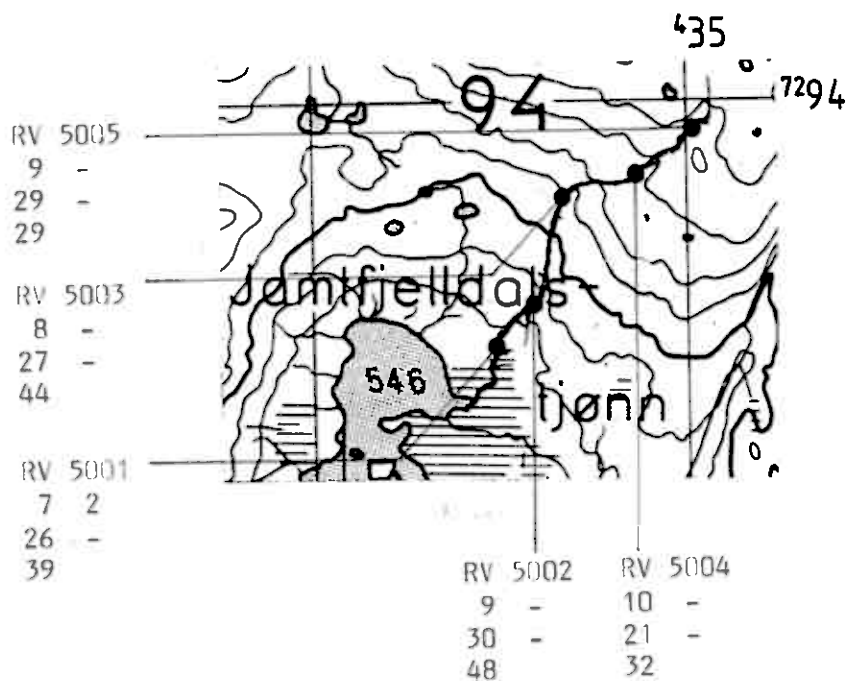
The dominant lithology in the area is a gneiss, varying in composition from amphibolitic to granitic; occasionally with garnet rich layers. The whole area is penetrated by several generations of pegmatites consisting of quartz, mica and feldspar.

Comments:

No gold anomalies detected.

Recommendations:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 71 JAMTFJELLDALS-
 Scale 1:20.000 TJØNN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Abosjorda No119 Size: 0.25 km²

Claim location: Map sheet 1926 IV Dravha

 : Air Photo D 015

 : Oko Kart DG 183 I

Pegged: ~~Yes~~ No Priority Claim retained: Yes No

Stream length 1.8km Drainage area: 0.5 km²

Original sample point (170 ppb Au) resampled: ~~Yes~~ No

Follow up team: JT/GT Duration: 1.0 day

Nos. of follow up sample : MO 2001 - MO 2008

Description of drainage system:

Stream rises in partly forested boggy plateaus and slopes, descending via waterfalls to 20m height partly out in fault zones along a generally steep slope.

Geology:

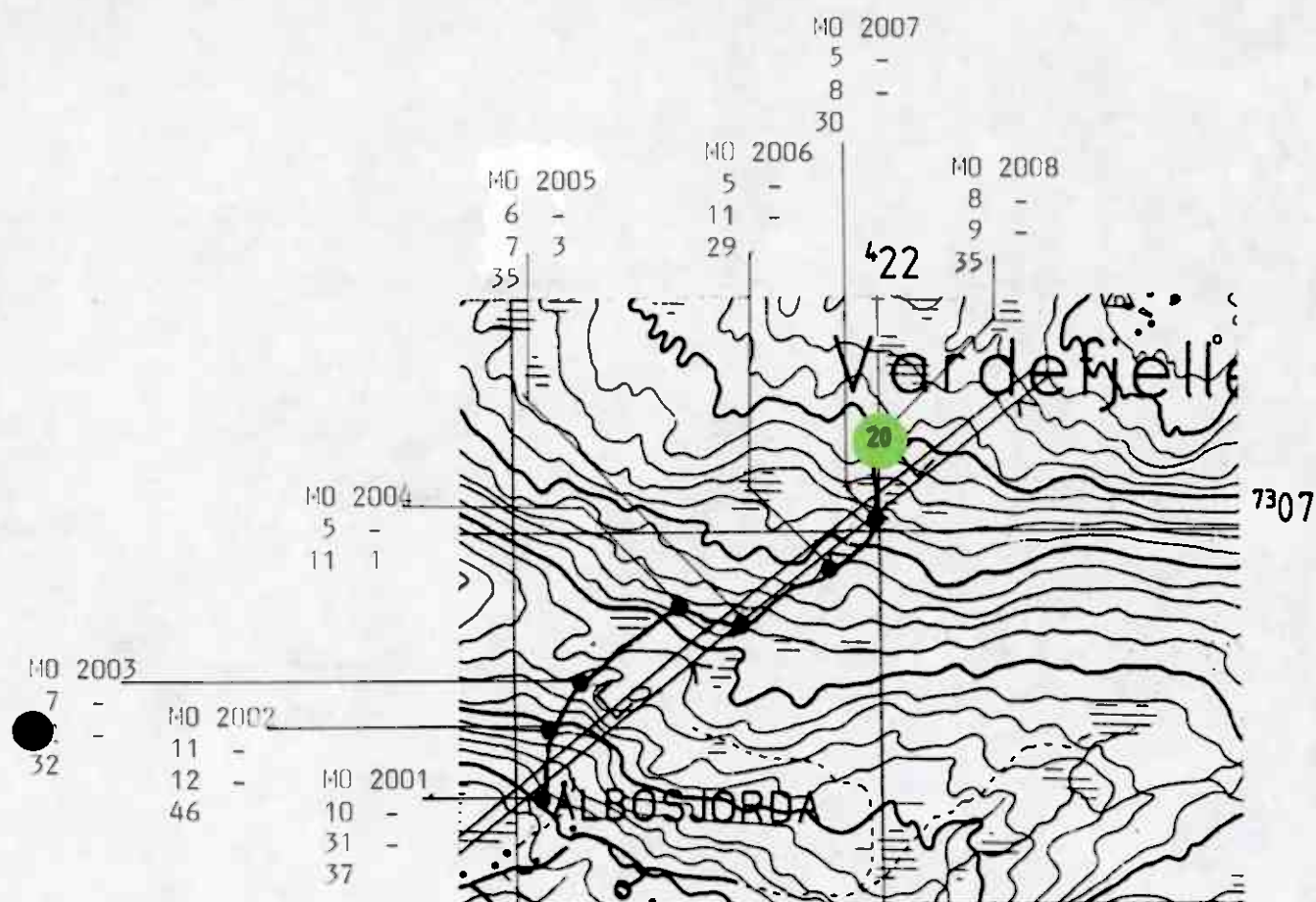
Fine-med to locally coarse-grained monzodioritic intrusive (locally magnetite-rich). Horizontal veining of Ca-feldspar rich composition (plus scattered coarse-grained magnetites). Skarned contacts between marble xenoliths (relatively large inclusions of about 3m width, 5m length) plus silification (Rock sample MO 2001).

Comments:

One low-range Au anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 119 ÅBOSJORDA
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Reinfjellet II No:126 Size:1.0 km2

Claim location:Map sheet 1926 IV Drevje

:Air Photo E 019

:Okø Kart DQ 181 III

Pegged: Yes No-Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area:1.0km2

Original sample points(80,13ppb Au) resampled:YesNo

Follow up team: TK/HK Duration:1.0 days

Nos.of follow up sample RF 7001 - RF 7006

Description of drainage system:

Two branched stream. Both branches start from a small glacier/snow pile. They run directly on bedrock for almost the whole distance down to where they join both streams. Were very short from source to original anomaly sample point and were therefore also sampled a bit below anom. smpl. point.

Geology:

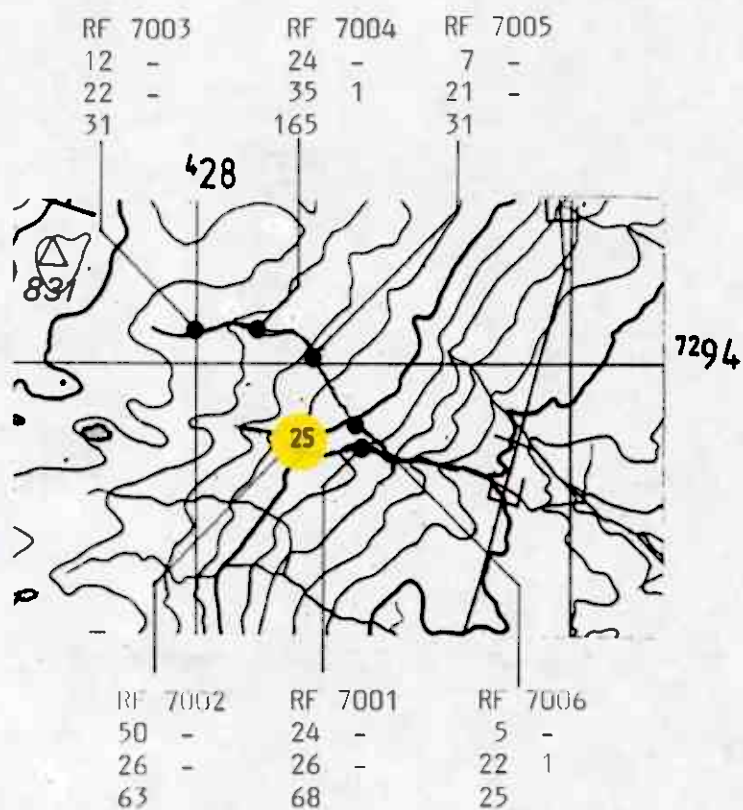
Granite (med-grained with lots of coarse pegmatite veins). Sheets of marbles (coarse-grained, white) with skarn minerals at the edges occurred within the granite. Other rocks (schist-like, Wollastonite(?) bearing with pyrite/pyrrhotite) occurred within the marble as thin horizons (Meta. Amphibolite??)

Comments:

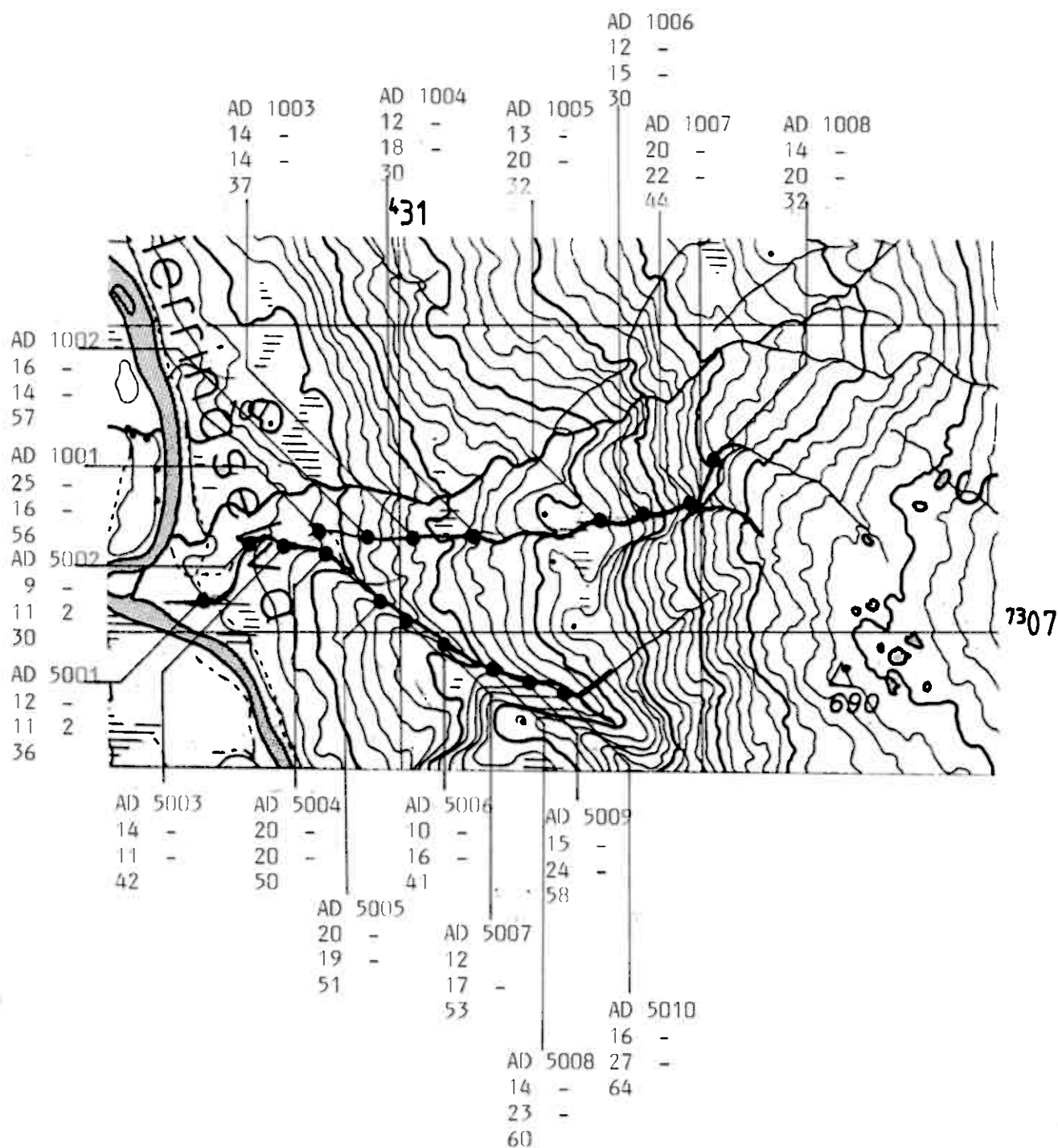
One med-range Au anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 126 REINFJELLET II
 Scale 1:20.000



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 147 HØGREMMEN
Scale 1:20.000

GRANE

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kvalfors No: 94 Size: 1.0 km²

Claim location: Map sheet 1926 II Grane

:Air Photo

:Okø Kart DO 180 I

Pagged: yes-No--Partly Claim retained: yes / No

Stream length 1.5 km/ Drainage area: 2.0km²

Original sample point (25 ppb Au) resampled: Yes-No

Follow up team: JT/GT Duration: 1.0 days

Nos. of follow up sample EI 2011- EI 2019

Description of drainage system:

The stream rises in a boggy area, and in gentle slope, descending gently partly over bedrock (thin overburden) to a swampy area near the river Vefsna. Tributaries entering from the West at higher altitudes were sampled individually.

Geology:

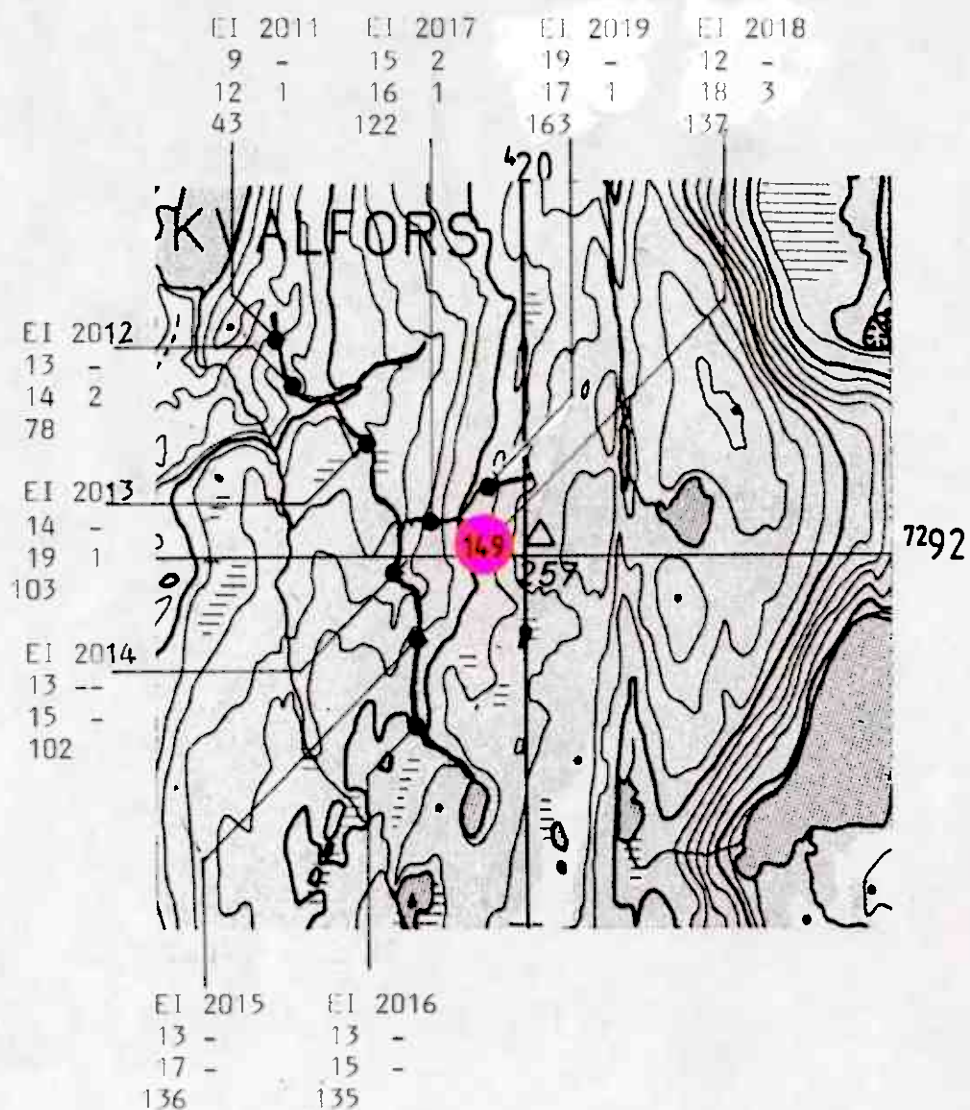
Uniform biotite schists/gneisses grading to granite gneiss. Locally pegmatites and quartz-schlieren. Overall very uniform lithology.

Comments:

One isolated high level gold anomaly, without accompanying pathfinder element anomalies.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 94 KVALFORS
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Eiterasen II No128 Size: 0.5 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 2.5km Drainage area: 3.0 km²

Original sample points(220ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 1.0 day

Nos. of follow up sample : FF 5077 - FF 5082

Description of drainage system:

The river is approx. 10m wide and up to 2m deep. It runs in a big steep-walled canyon with a large speed, and is only joined by 2-3 very small tributaries.

Geology:

The bedrock consists of an interlayered white to black marble and a dark mica-schist. The mica-schist often carries small red garnets. At sample point 5082 small (1mm) pyrite cubes, disseminated in a black marble, were observed, most probably of diagenetic origin.

Comments:

Six of the samples returned with detectable gold (four low and two medium range). The sampling was not continued to the headwaters.

Recommendations:

Detailed geology/lithogeochemistry.

13

13

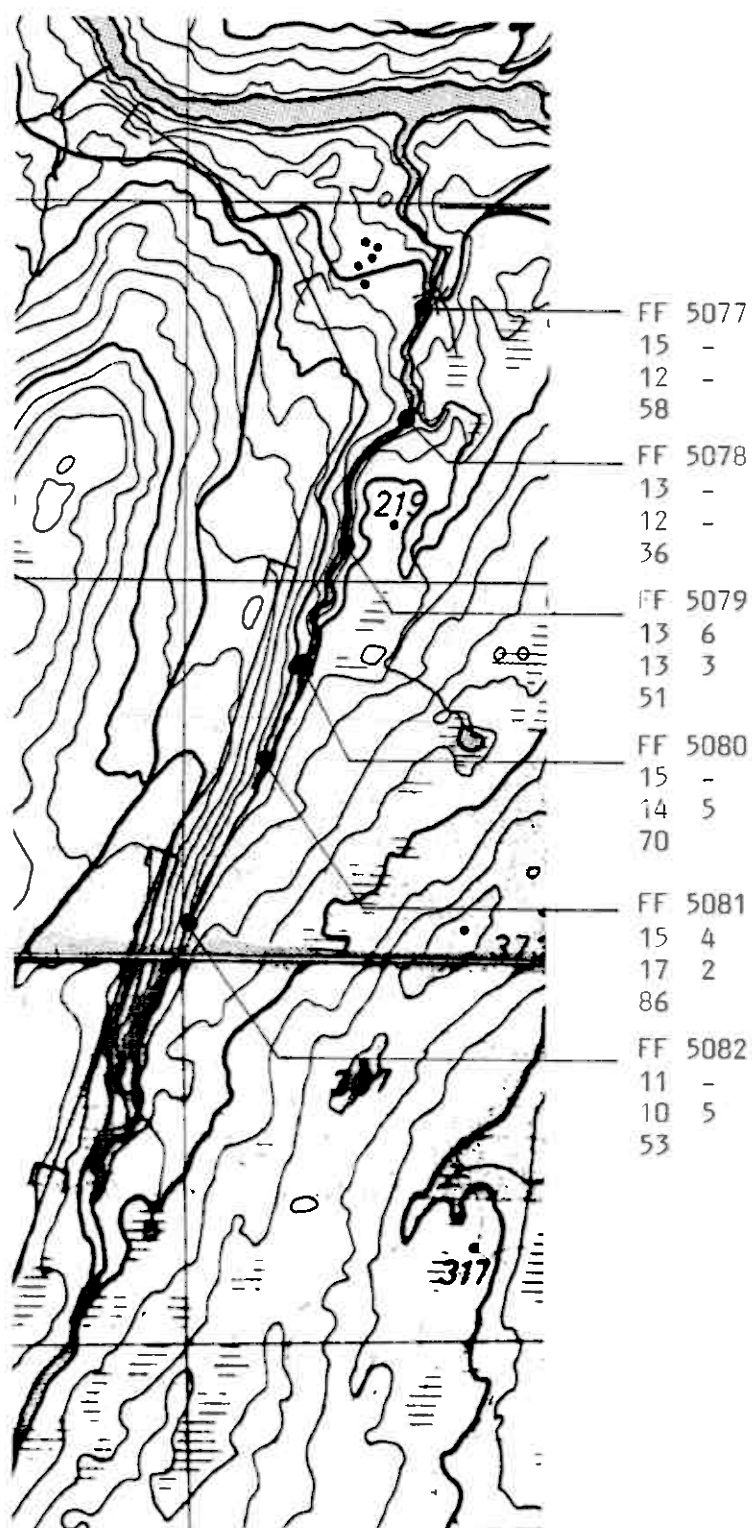
14

15

62

MARBLE + BIOTITE SCHIST

36



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 128 EITERÅSEN II
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Langvatnet II No: 96 Size: 1.5 km²

Claim location: Map sheet 1926 III Grane

Air Photo

Oko Kart DD 176 II

Pegged: Yes No Partly Claim retained: Yes No

Stream length 1.5km Drainage area: 1.5 km²

Original sample points: 8400b Au resampled: Yes No

Follow up team: KB/KA Duration: 1.0 day

Nos. of follow up sample : FF 5083 - FF 5087

Description of drainage system:

System rises in a lake, having no tributaries, and is relatively broad (3-5m), being braided in several places. Average slope is quite steep (~20°), there being some larger waterfalls.

Geology:

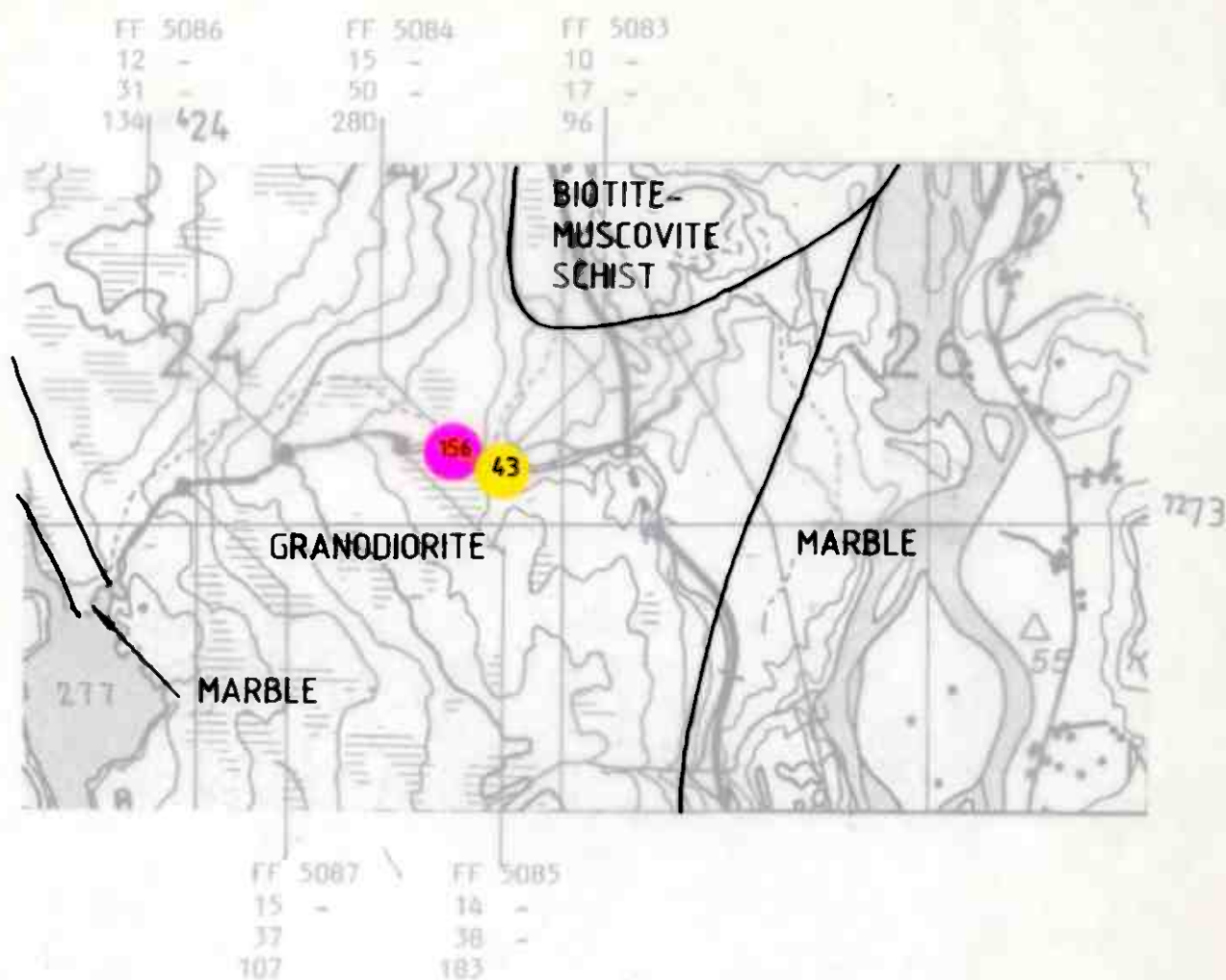
Headwaters in biotite-gneiss with numerous pegmatites, grading downstream to slightly foliated biotite-rich granodiorite. A marble (?raft) occurs in the lake area.

Comments:

One medium and one high-range Au anomaly.

Recommendations:

A low-priority target.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name :96 LANGVATNET II
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Langvatnet No: 95 Size: 1.0 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart DD 180 I

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 1.0 km²

Original sample points (126 ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 1.0 day

Nos. of follow up sample : FF 5104 - FF 5106

Description of drainage system:

Source in partly karsted area, descending via rapids to a flat area where it meanders.

Geology:

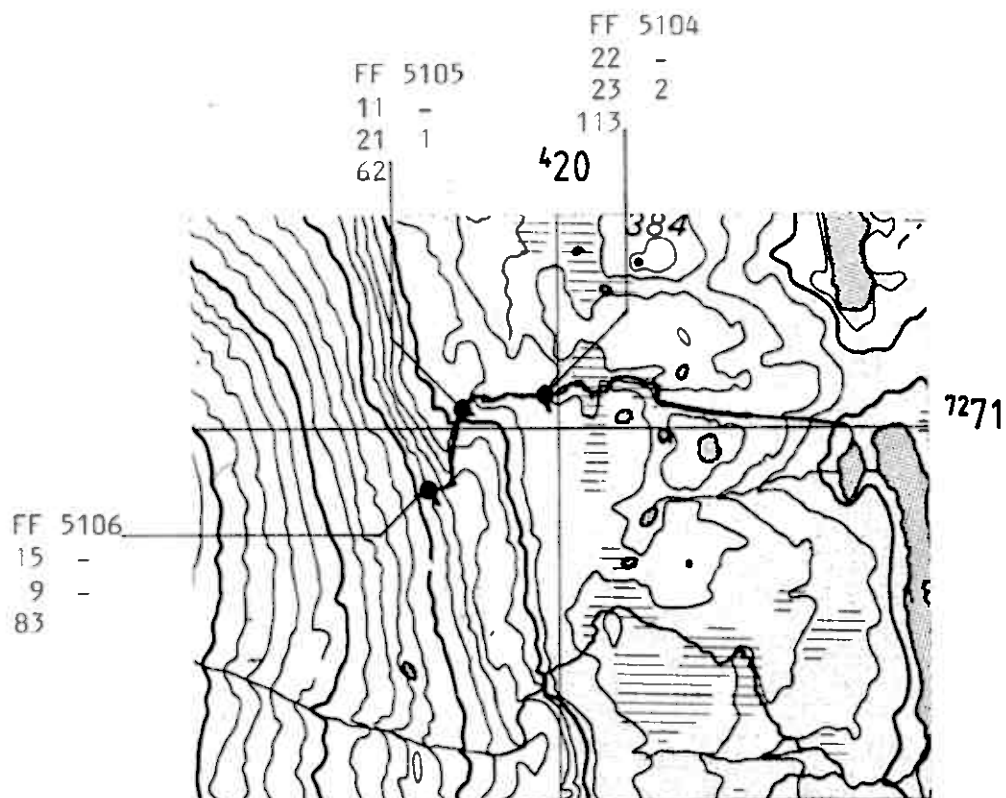
Upstream the geology changes from marble to granite, but the contact has not been observed.

Comments:

No Au anomalies observed.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 95 LANGVATNET I
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Finnsasen No 97 Size: 0.5 km²

Claim location: Map sheet 1926 III Grane

 : Air Photo

 : Oko Kart DP 176 I

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 0.5 km²

Original sample points: 94 ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 0.5 day

Nos. of follow up sample : FF 5050

Description of drainage system:

The stream is very small and comes from a moor.

Geology:

The stream runs in till. No outcrops.

Comments:

One sample only - no anomaly confirmation.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Lia I No: 98 Size: 0.5 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart DO 176 I

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 0.75km Drainage area: 0.5 km²

Original sample point (18ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 0.5 day

No. of follow up sample : FF 5088 - FF 5091

Description of drainage system:

The stream flows from a small lake through a small canyon. In some places it disappears under the talus. The stream is 1-2m wide. It has one small tributary.

Geology:

Poor exposure. A few exposures of marble and granodioritic gneiss, the former being locally skarned. A few small (5-20cm) quartz-pyrite veins.

Comments:

No Au anomalies detected.

Recommendations:

None - see also 99 Lia II.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Lia II No: 99 Size: 0.75 km²

Claim location: Map sheet 1926 III Grane

 : Air Photo

 : Oko Kart DO 177 IV

Recorded: Yes No-Partly Claim retained: Yes No

Stream length 0.7km Drainage area: 0.75 km²

Original sample points (30ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 0.5 day

No. of follow up sample : FF 5092 - FF 5094

Description of drainage system:

The stream is sampled upstream from the railroad. In the lower part it has covered a canyon in marble. Further upstream there are some falls and the stream originates in a small moor. It has one small tributary.

Geology:

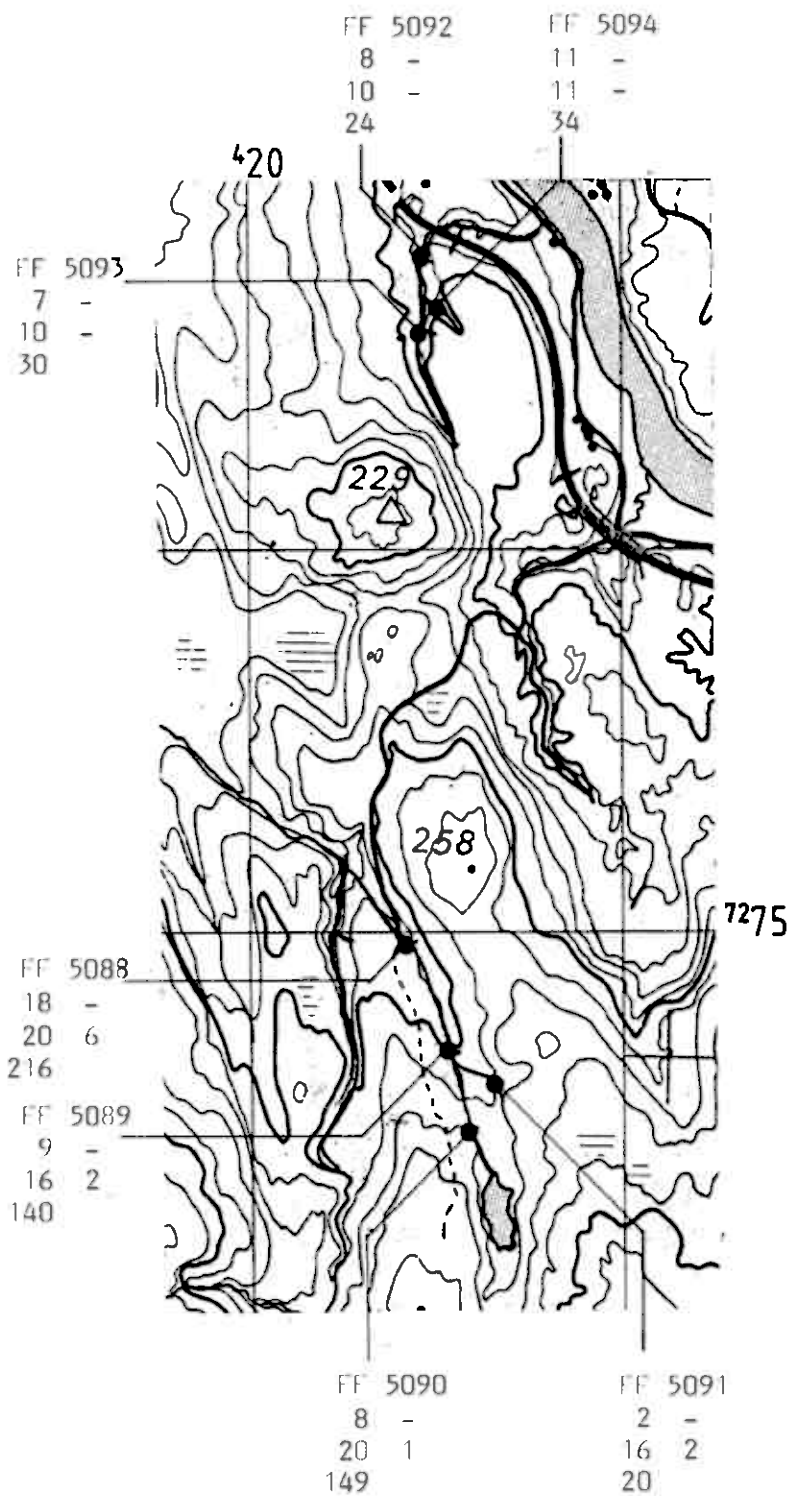
In the lower part the stream runs in marble. In the upper part there are some outcrops of granodiorite. There is a thin till overburden in most of the area.

Comments:

See 98 Lia I.

Recommendations:

Ditto.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 99+98 LIA II + LIA I
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Svebakk No:129 Size: 0.5 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart

Pegged:Yes No-Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 1.5 km²

Original sample points: (54 ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:1.0 day

Nos.of follow up sample : FF 5095 - FF 5101

Description of drainage system:

The river is rather small, less than 2m wide. It's lower part has several falls. Above the moor is a fall, partly in talus and there is one tributary.

Geology:

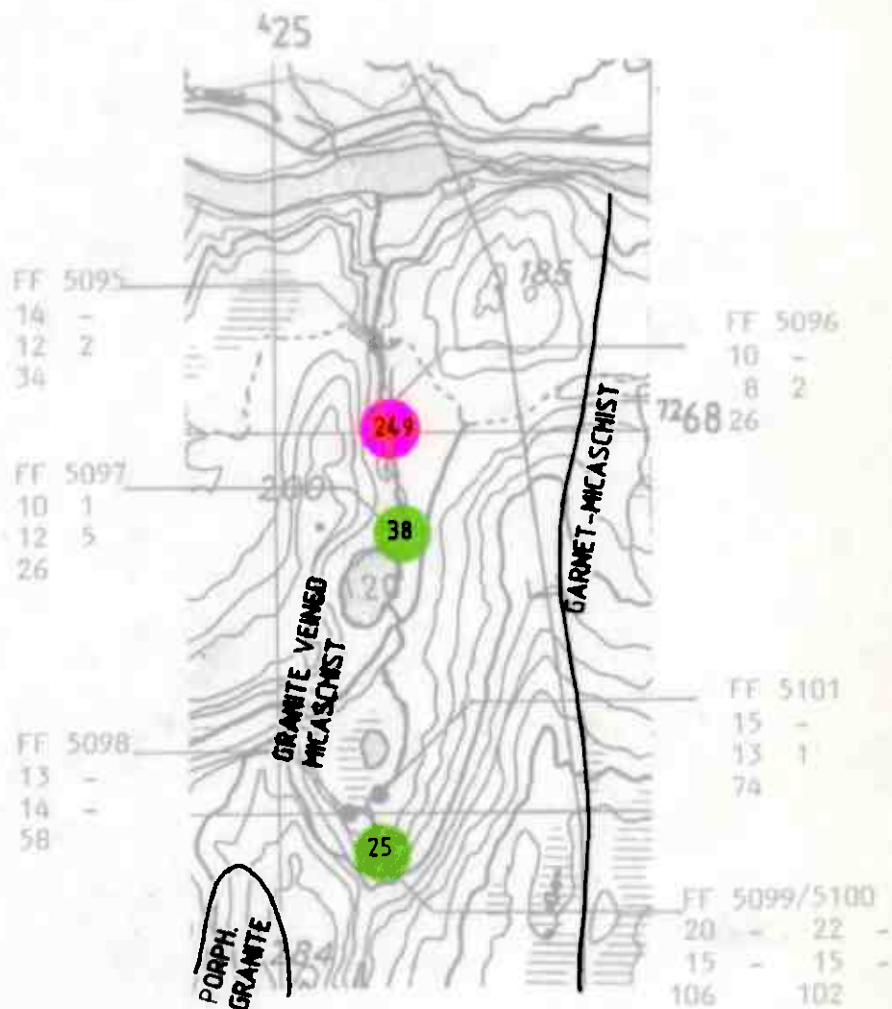
The upper part of the river runs through talus with boulders of marble and granite. The moor lies in an area of till overburden and alluvial sediments. Downstream the lake there are outcrops of garnet - mica-schist.

Comments:

Two low and one high-range Au anomaly detected.

Recommendations:

A low-priority target, geology/lithogeochemistry.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 129 SVEBAKK 129 SVEBAKK
Scale 1:20,000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Vardehaugen No: 84 Size: 2.5 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Oko Kart DO 180 III, 179 I

Pegged: yes-No---Partly Claim retained: yes / No

Stream length 1.5 km/ Drainage area: 2.0 km²

Original sample point (9 ppb Au) resampled: Yes-No

Follow up team: JT/GT Duration: 1.0 days

No. of follow up sample EI 2001- EI 2010

Description of drainage system:

Rises in steep cliffs, descending through a small lake and thence over gentle slopes with small waterfalls. Very irregular drift cover from thin to thick post-glacial clay. The high range 1982 anomaly (110006, 389 ppb) was not resampled, as the sediment at this point was derived from outwash of glacial bank material.

Geology:

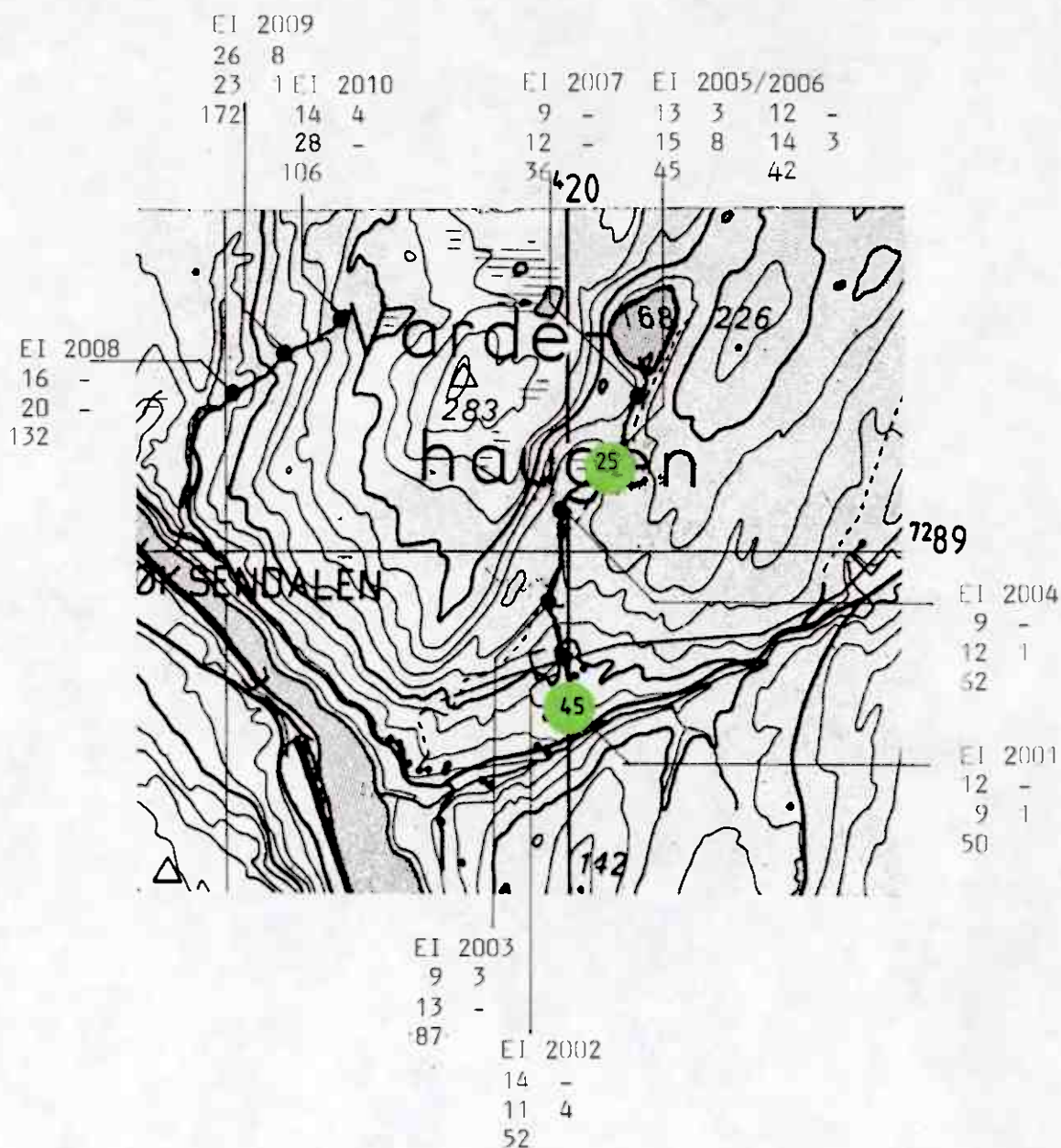
Stream partly follows contact zone between biotite schist/gneiss and grey-banded marble with no contact metamorphic reaction zone observed. Marbles are phlogopite-rich, containing inclusions of pegmatite. Biotite gneiss is possibly of granitic origin. Few exposures.

Comments:

Two low range gold anomalies, not accompanied by pathfinder element anomalies.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 84 VARDEHAUGEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Laksfors No:100 Size:0.75 km²

Claim location:Map sheet 1926 II Grane

:Air Photo

:Okø Kart

Pegged:yes No Partly Claim retained: yes / No

Stream length 1.5 km/ Drainage area:1.5km²

Original sample point (35 ppb Au) resampled: Yes-No

Follow up team: JT/GT Duration:0.5 days

Nos.of follow up sample EI 2020- EI 2024

Description of drainage system:

Descends from a cliff through gentle topography covered in thick overburden(sandy silt over blue postglacial clay).Karst features are common.

Geology:

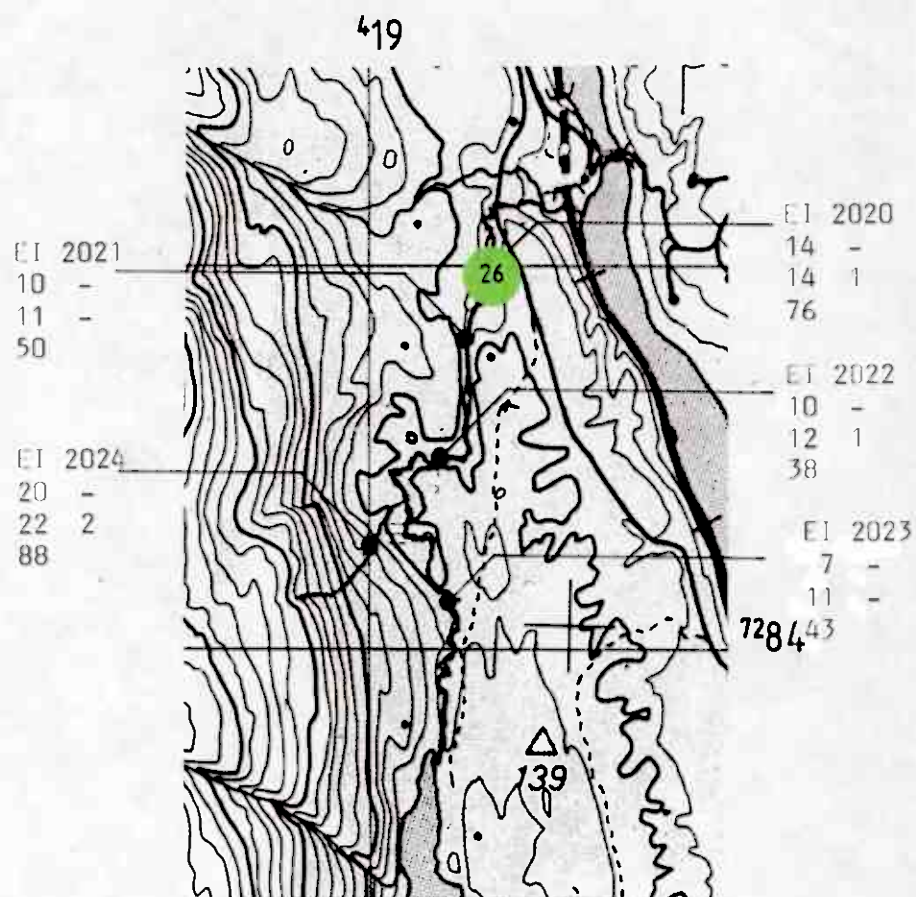
Stream follows contact zone between medium grained massive granite and gray-banded marble. Few exposures.

Comments:

One low range gold anomaly.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 100 LAKSFORS III
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Laksfors I No:73 Size:4.5 km²

Claim location:Map sheet 1926 III Grane

Air Photo

Oke Kart P 177 I, III

Pegged:Yes No--Partly-Claim retained: yes No

Stream length 10.0 km/ Drainage area:5.0km²

Original sample points(4,26,121,37,5ppb Au) resampled:Yes No

Follow up team: JT/GT OK/GT Duration:5.0 days

Nos. of follow up samples RF 2009 - RF 2040

RF6101 - RF6106

RF8001 - RF8006

Description of drainage system:

Sources of tributaries in steep, thinly-covered slope (most samples taken here), thence into forested and bog area with meandering in very poorly exposed terrain. Dominated by the homogeneous Reinfiell granite/granodiorite, which contains intensive aplitic and pegmatitic veining, and numerous inclusions of marble (partly skarned), biotite schist and amphibolite.

Geology:

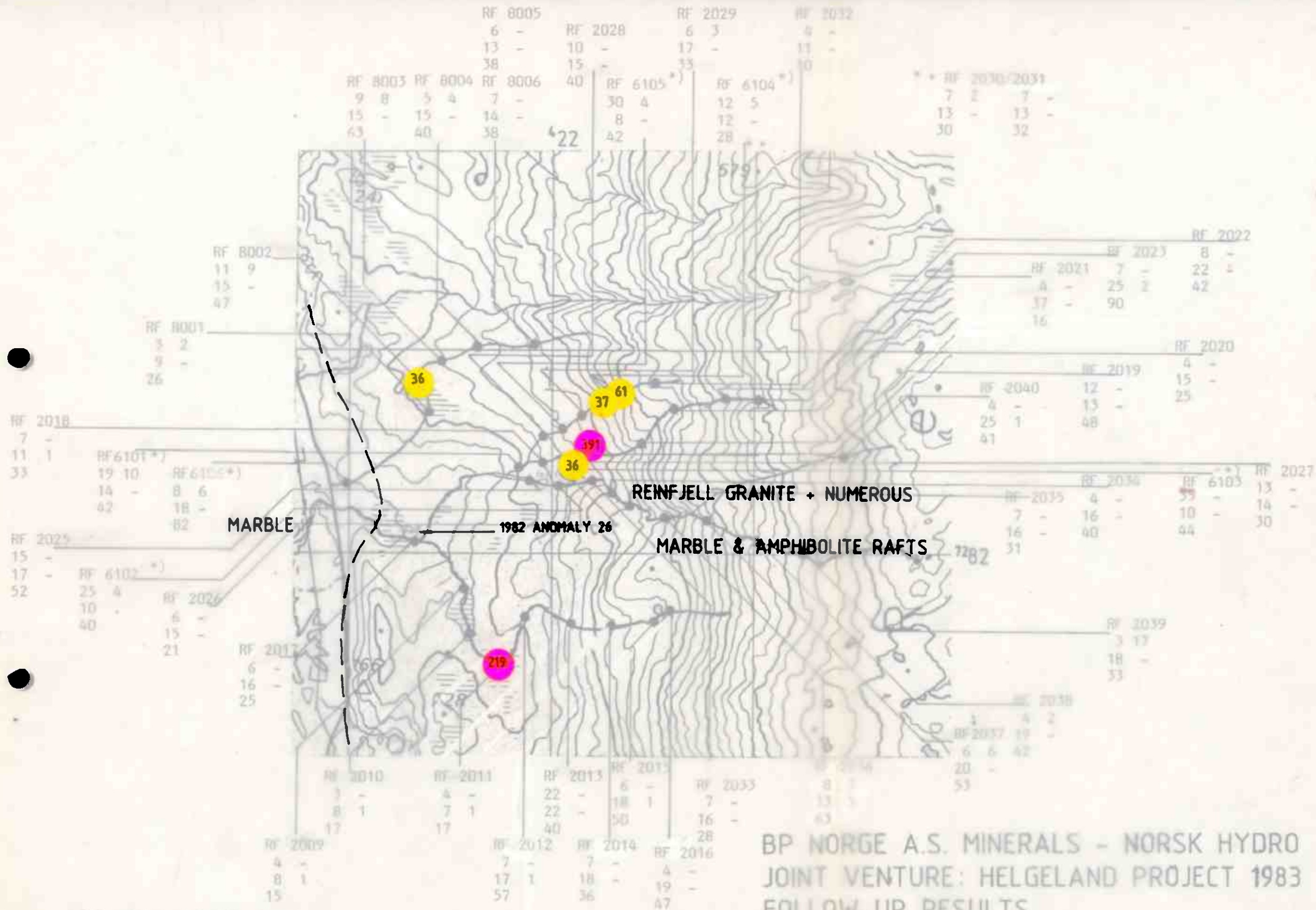
Dominated by the homogeneous Reinfiell granite/granodiorite, which contains intensive aplitic and pegmatitic veining, and numerous inclusions of marble (partly skarned), biotite schist and amphibolite.

Comments:

Six Au anomalies were detected in 4 of the 5 tributaries forming the system (2 high-range and 4 medium-range), these draining a 'strike-length' of approximately 2kms. During a second follow-up in 1983, 6 overburden samples were taken near anomalous sample points, two adjacent points having medium-range Au anomalies.

Recommendations:

Detailed geology and possible overburden sampling. Approximately 2-3 team days.



*) Deontes overburden samples

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet B No: 68 Size: 2.75 km²

Claim location: Map sheet 1928 III Grane

Air Photo

Oke Kart

Pegged: yes-No---Partly Claim retained: yes/ No

Stream length 0.7 km/ Drainage area: 1.0 km²

Original sample point (25 ppb Au) resampled: Yes-No

Follow up team: CR/AK/JT Duration: 0.5 days

Nos. of follow up samples RF 8017 - RF 8018

Description of drainage system:

Stream has its source in a bog depression on bare rock, part snow covered, flowing however most of its length through thick overburden.

Geology:

See no. 87 Sor-Svartvatnet H.

Comments:

ditto

Recommendations:

ditto

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Svartvatnet No: 18 Size: 3.0 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart

Pegged: yes-No---Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 1.0km²

Original sample point (14 ppb Au) resampled: Yes-No

Follow up team: CR/AK/JT Duration: 0.5 days

Nos. of follow up samples RF 8020 - RF 8032

Description of drainage system:

Stream flows mainly through deep overburden.

Geology:

See no. 87 Sor-Svartvatnet H.

Comments:

ditto

Recommendations:

ditto

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet H No: 87 Size: km²

Claim location: Map sheet 1926 III Grane

Air Photo

Okso Kart

Pegged: yes-No---Percy Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 1.5 km²

Original sample point (233 ppb Au) resampled: Yes-No

Follow up team: CR/AK/JT Duration: 1.0 days

Nos. of follow up samples RF 8037 - RF 8048

Description of drainage system:

Source is bog, descending through peatland and a heavily vegetated valley to join Vesterelven where the overburden consists of thick clay.

Geology:

Vesterelven follows a bed of marble which includes abundant granodiorite dykes and boudinaged amphibolite lenses which reflects the intense tectonic activity along the entire valley on the east side of the Reinffjellet granite. Micaschist hosts the marble at Svartvatnet, this being intruded by intensely pegmatite-veined porphyritic diorite. At the contact of the Reinffjell granodiorite, a thin marble stripe occurs, with local skarn mineralization. (pyrite, pyrrhotite)

Comments:

Taken along with claims nos. 18, 68, and 83 nine gold anomalies were detected. Three high range anomalies are concentrated in the south-east corner of the claims. These anomalies are broadly associated with strong arsenic anomalies, a pattern characteristic of the stream sediment anomalies downstream from the Quartz-arsenopyrite-gold veins at Rauvatn. This cluster of anomalies could be explained by a repetition of the mineralization aforementioned caused by strike-slip faulting in NW-SE direction.

Recommendations:

A high priority follow-up target. Deep overburden sampling with detailed geology/litho geochemistry. In addition some tests with ground geophysics (EM and Mag.) are planned.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet G No: 83 Size: km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart

Pegged: yes-No---Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 2.0km²

Original sample point (39 ppb Au) resampled: Yes-No

Follow up team: GR/AK/JT Duration: 1.0 days

Nos. of follow up samples RF 8007 - RF 8015

Description of drainage system:

Source is well exposed terrain within a cleft, flowing over a steeper slope also with good exposure to a moderately sloped area with glacial overburden and vegetation.

Geology:

See no. 87 Sor-Svartvatnet H.

Comments:

ditto

Recommendations:

ditto

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Vesterelva No: 98 Size: km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart P 177 I, III

Pegged: yes-No---Partly Claim retained: yes/ No

Stream length 3.0 km/ Drainage area: 2.0 km²

Original sample point (48 ppb Au) resampled: Yes-No

Follow up team: GT/OK Duration: 1.0 days

Nos. of follow up samples RF 6001 - RF 6009

Description of drainage system:

Tributaries have sources in boggy terrain south of Klubbjellet, flowing through thick overburden of glacial till and post-glacial clay/pebble beds.

Geology:

See Sør-Svartvatnet H.

Comments:

Ditto.

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Rauvatnet No 17 Size: 3.0 km²

Claim location: Map sheet 1926 III GRANE

Air Photo Flight Path F 2576

Okø Kart EQ 179 II, IV

Pegged: Yes-No Partly Claim retained: Yes No

Stream length 2.0 km Drainage area: 2.0 km²

Original sample point (85 ppb Au) resampled: Yes No

Follow up team: GT/OK Duration: 1.0 day

Nos. of follow up sample : RV 5001 - RV 5011

Description of drainage system:

Sources in sparsely vegetated slope and cuts in the valley side, descending rapidly into wide grassland area above treeline with local seepage.

Geology:

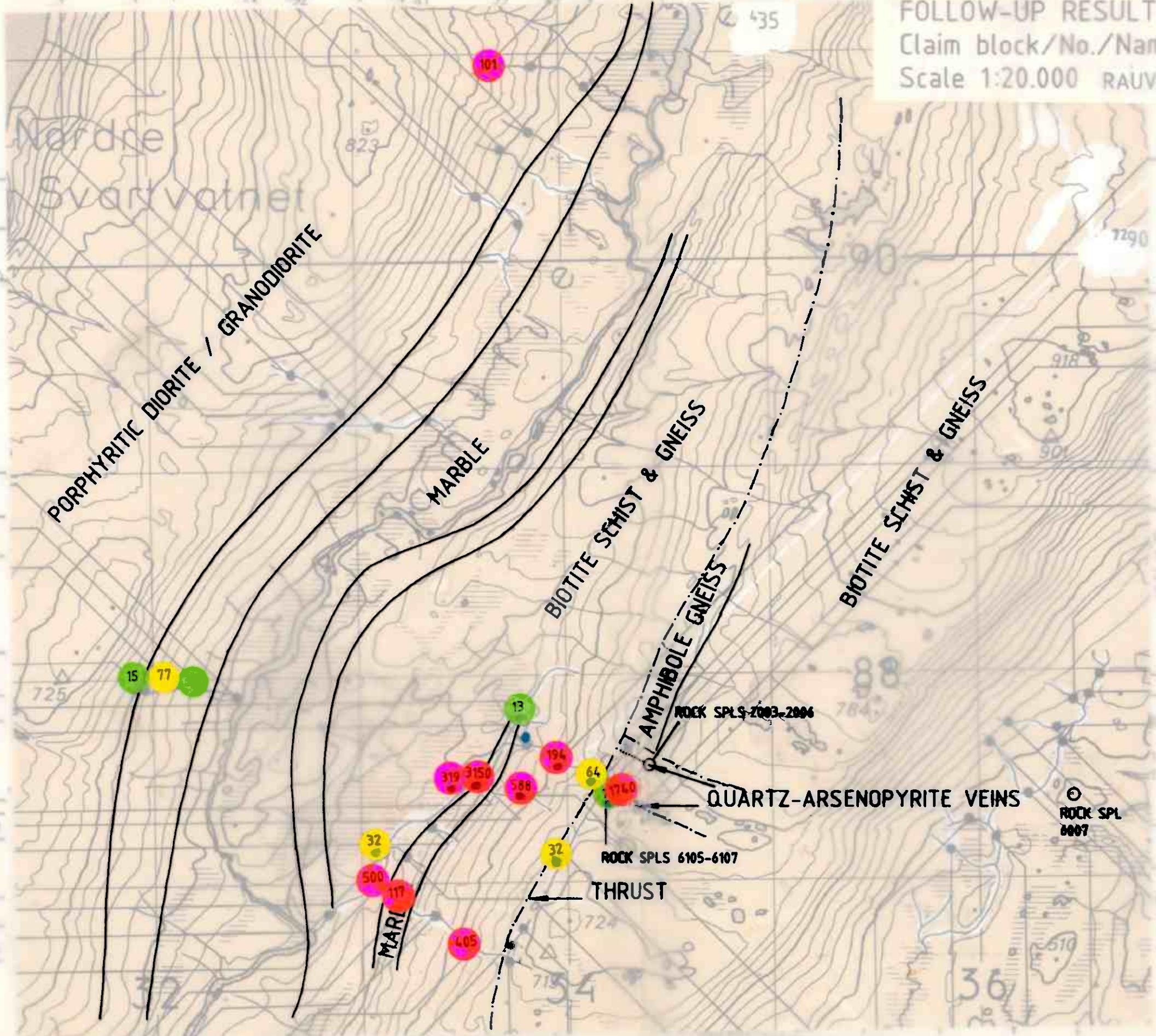
Bedrock in area very complicated and heterogenous quartz rich intrusives interbedded with banded marbles, metaseds with large amounts of mafic constituents and greenish metaseds. Marble areas are mainly covered by forest.

Comments:

Recommendations:

RV 2003	RV 2005	RV 2006	RV 6031	RV 6032	RV 6033	RV 6034
9 4	32 1	20 3	11 -	9 -	8 -	28 -
18 -	28 -	19 -	35 -	25 -	28 -	27 - 24 10
20 -	118 -	53 -	32 -	30 -	41 -	29 - 26 -

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name 17,77,78,92,93
 Scale 1:20.000 RAUVATNET,JAMTFLELLDAL I-IV



RV 2002	RV 2001	RV 2000
12 7	12 6	50 5
37 -	33 -	42 -
53	39	234

RV 6012	RV 6013	RV 6014
7 -	12 2	6 -
18 -	20 -	22 -
38	54	26

RV 6015	RV 6029	RV 6023
8 1	8 1	13 19
-	18 -	23 -
-	20	40

RV 6024	RV 6028	RV 6027
12 19	25 110	20 2
25 -	43 -	32 -
40	56	153

RV 6025	RV 6016	RV 6012
12 18	15 3	14 -
22 -	22 -	23 -
42	76	72

RV 6022	RV 6108
14 22	12 6
23 -	22 -
46	38

RV 6107	RV 6105
20 103	10 11
20 -	22 -
62	56

RV 6106	RV 6005
18 64	13 -
20 -	25 -
64	30

RV 6004	RV 6003
8 -	6 -
19 -	16 -
21	17 -

RV 6002	RV 6001
8 2	21 -
17 -	20 -
16	47

RV 6006	RV 6007
8 -	13 7
20 -	20 -
20	30

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Jamtffjelldalen I No77 Size:1.5 km²

Claim location:Map sheet 1925 III GRANE

:Air Photo

:Okø Kart DQ 180 I

Pegged:~~Yes~~-No Partly Claim retained: Yes No

Stream length 1.0 km Drainage area:0.5 km²

Original sample points(41,2 ppb Au) resampled:Yes No

Follow up team: GT/OK Duration:1.0day

Nos. of follow up sample : RV 6030 - RV 6036

Description of drainage system:

Anomalous streams drain western slopes of Jamtffjelldalen both anomalies are in small streams close to drainage area.

Geology:

The area is dominated by a gneissose granodioritic bedrock which in places shows porphyritic appearance and biotite schist inclusions. Leucocratic veining occurs in dm-scale and m-spacing. Stream pebbles can show varying petrography. Clay in stream bed has been found at high altitude (130m above present valley floor).

Comments:

Taken together with claims 78,92,93 (Jamtffjelldal II-IV)-numerous high Au anomalies (to 1.7ppm). Follow-up detected quartz-arsenopyrite veining (containing to 2.2ppm Au) along fractures which are conjugate to a thrust plane on the E. side of Jamtffjelldal. Low to high Au anomalies on the W. valley side suggests these fractures to continue.

Recommendations:

A high-priority area - follow-up by deep overburden sampling, particularly along the thrust, aided by detailed air-photo fracture interpretation, together with further lithogeochemistry and geology.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Jamtfjelldalen II No 78 Size: 0.75 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart 0 180 I

Regged: Yes-No---Partly Claim retained: Yes No

Stream length 1.0 km Drainage area: 0.5 km²

Original sample point (83 ppb Au) resampled: Yes No

Follow up team: JT/BS Duration: 1.0 day

Nos. of follow up sample : RV 2001 - RV 2006

Description of drainage system:

System flows along fracture zone with locally derived stream sediment.

Geology:

Medium to coarse grained porphyroblastic biotite gneiss - probably a metadiorite. Topographic depressions form in metasediments (biotite - hornblende mica schists and marbles). The latter are heavily veined by pegmatite and granite.

Comments:

See no. 77 Jamtfjelldalen I

Recommendations:

ditto

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Jamtfjelldalen III No92 Size: 0.25 km²

Claim location: Map sheet 1928 III GRANE

:Air Photo:

:Okø Kart DQ 179 I, III

Pegged: Yes No Permit Claim retained: Yes No

Stream length 0.5 km Drainage area: 0.25 km²

Original sample point (43 ppb Au) resampled: Yes No

Follow up team: GT/OK Duration: 1.0 day

Nos. of follow up sample : RV 6012 - RV 6015

Description of drainage system:

Anomalous stream drains part of the eastern slopes of lower Jamtfjelldalen. Stream starts as seepage just above the vegetation line and, after having been joined by some trickles and small tributaries enters into the main str. in Jamtfjelldalen in valley bottom.

Geology:

Mountain slope above anomalous stream shows intensive stockwork veining of feldspar-rich white veins in medium-grey biotite-rich intrusive rock (granodiorite) veins are in dm-scale with m-scaled spacing, rock is fresh. Veins contain in parts small quantities of green epidote like mineral which seems to be secondary to primary veining. Grey-clay is found in sediments up to an altitude of 550 m.

Comments:

See 77 Jamtfjelldal I.

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Jamtfjelldalen IV No93 Size: 2.25 km²

Claim location: Map sheet 1926 III GRANE

:Air Photo

:Okø Kart DQ 179 I,III

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 3.0 km Drainage area: 1.5 km²

Original sample point (219 ppb Au) resampled: Yes No

Follow up team: GT/AK GT/OK Duration: 2.0 day

No. of follow up sample : RV 6016 - RV 6029

Description of drainage system:

Anomalous stream drains eastern slopes of southern part of mountains between Rauvatnet lake and Jamtfjelldalen. Most of the tributaries and main stream start above treeline on mountain slope and run to northwest until they join main stream at bottom of bluff which approximately parallels mountain slope.

Geology:

Area is dominated by a mica schist, in places approaching gneissose appearance and a quartz-rich intrusive-looking rock. In addition, marble, pegmatoid lenses, quartz veining, skarn and minor amounts of sulfides were found. Clay found in sample points 6026 and 6029.

Comments:

See 77 Jamtfjelldal I.

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Fellingfors No 19 Size: 4.25 km²

Claim location: Map sheet 1926 III Grane

 : Air Photo

 : Oko Kart DP 176 III, V

Pegged: Yes No-Partly Claim retained: Yes No

Stream length 4.0km Drainage area: 3.5 km²

Original sample points (101.37.27ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 3.0 day

Nos. of follow up sample : FF 5001 - FF 5025

 FF 5102 & FF 5103

 FF 6015 - FF 6026

Description of drainage system:

Two main streams: a: Rising in a moor, the lower part running alongside a dirt track in an agricultural area. b: A large (>10m wide) stream having a source in till, flowing in its upper part along a canyon, thence becoming braided with boulders to 2m diameter.

Geology:

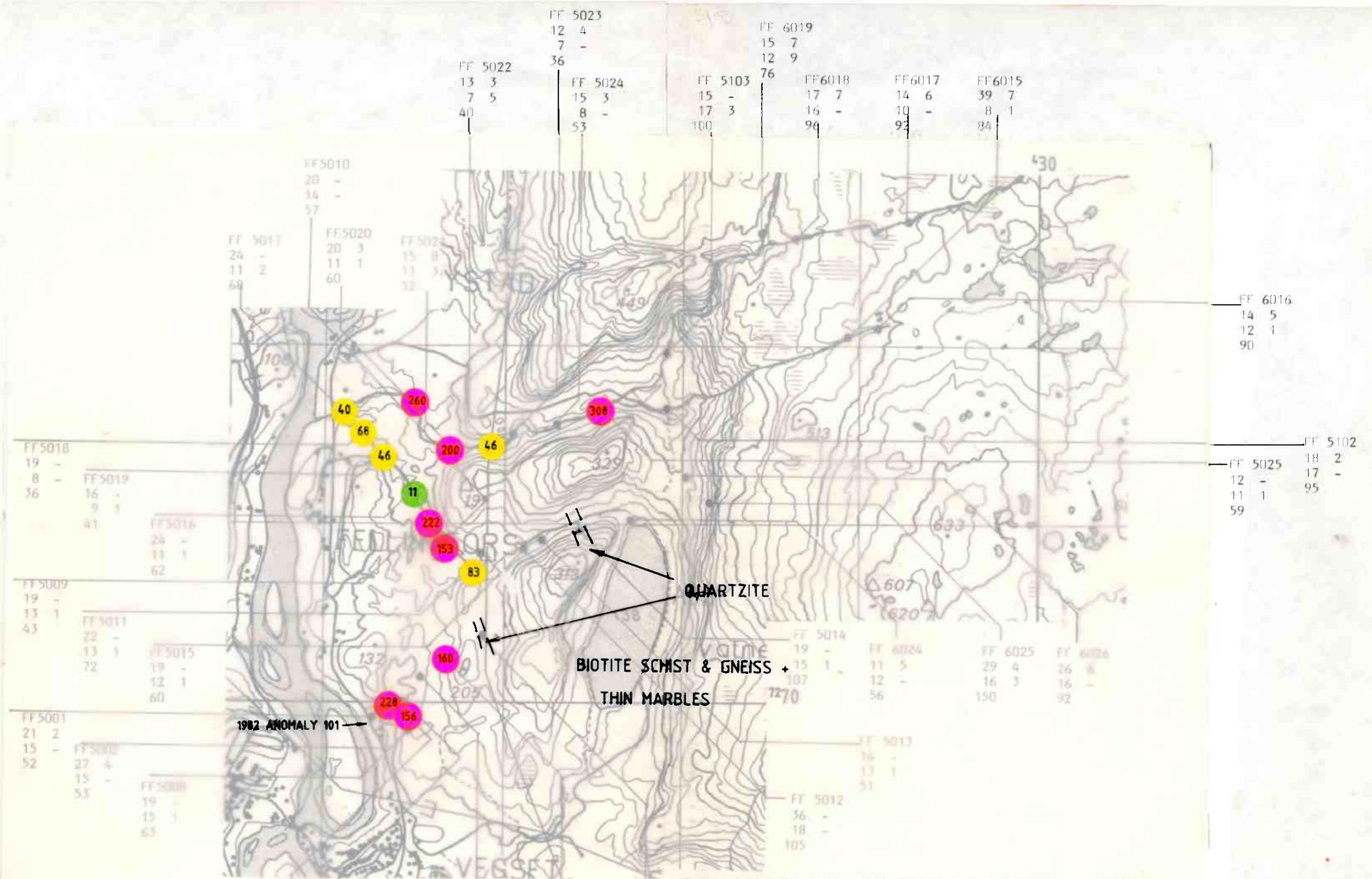
Headwaters in mica-schist interbedded with garnet-muscovite 'granitic meta-sandstone'. Boulders of granite, quartz, amphibolite, marble and a fine-grained purple rock type (?volcanic) in drift.

Comments:

Numerous mid-to high-range Au anomalies.

Recommendations:

Detailed geology and lithogeochemistry.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 19 FELLINGFORS
 Scale 1:20 000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Ravatnet I No: 75 Size: 1.25 km²

Claim location: Map sheet 1926 III Grane

Air Photo:

Okø Kart: P 178 I, III

Pegged: Yes-No---Partly Claim retained: yes / No

Stream length: 2.5 km/ Drainage area: 2.0 km²

Original sample points (11, 63 ppb Au) resampled: Yes No

Follow up team: JT/OK/GT Duration: 2.0 days

Nos. of follow up samples: RF 2041 - RF 2055

Description of drainage system:

Stream with two large and various smaller tributaries drains the rocky slopes of Reinfjellet to the west as well as a large boggy plateau below the treeline.

Geology:

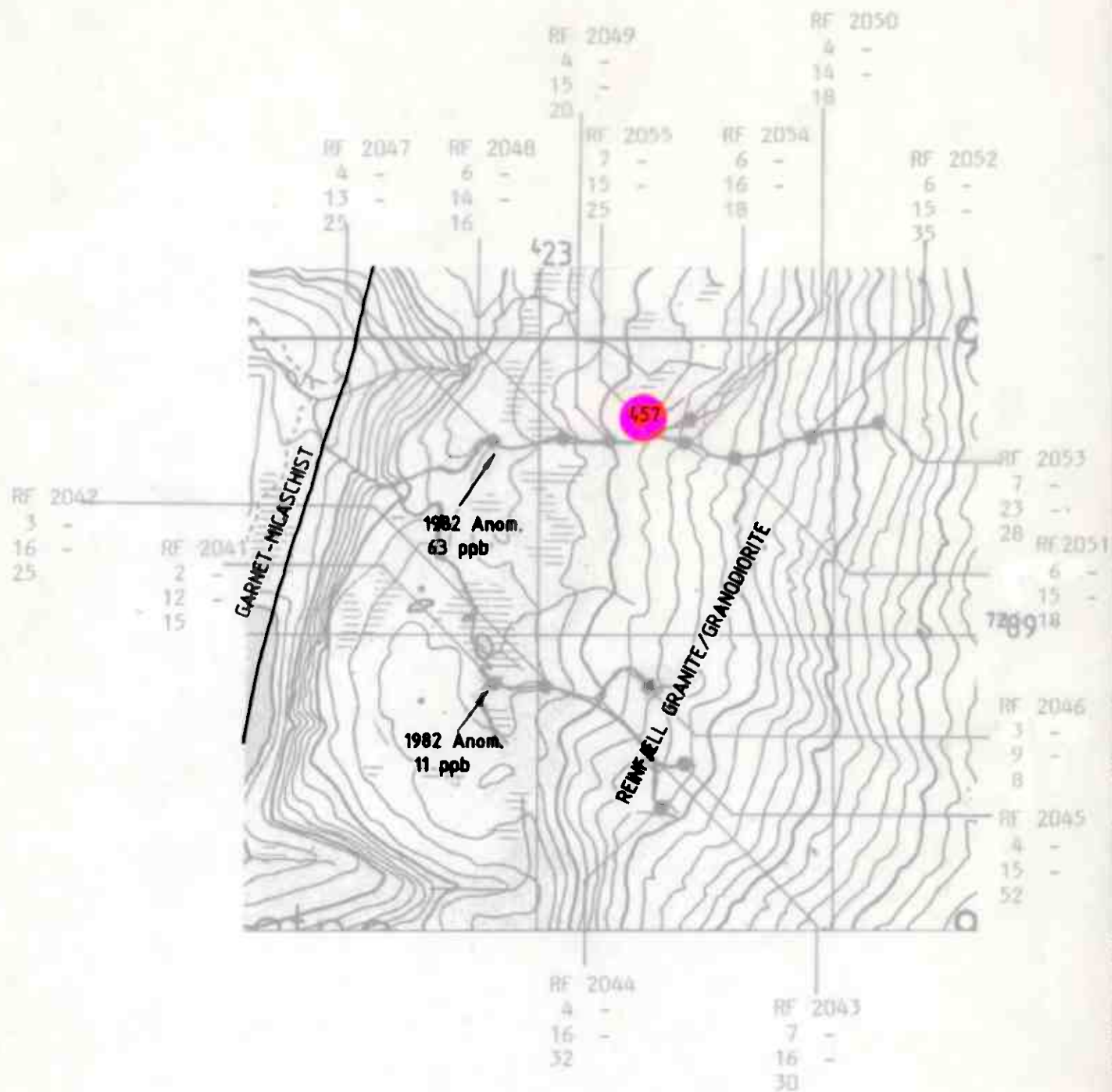
Rather uniform with extensive equigranular granitic-granodioritic bedrock. Locally, gneissose appearance. In a few places, pegmatitic stockwork of small extension (Down to a few m wide).

Comments:

Single (very) high-range Au anomaly detected in small tributary to sampled stream. N.B. claim area lies on opposite side of Reinfjell intrusive to the Sorsvartvatnet claim group.

Recommendations:

A relatively low-priority target - will be included in Sorsvartvatnet follow-up. Approx. 1 team day detailed geology.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name : 75 RÅVATNA I 75 RAVATNA I

Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1993

Claim Name: Laksfors II No: 74 Size: 0.25 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart P 177 I, III

Pegged: Yes No Partly Claim retained: yes/ No

Stream length 2.0 km/ Drainage area: 2.5km²

Original sample points (157ppb Au) resampled: Yes/No

Follow up team: JT/GT Duration: 1.0 days

Nos. of follow up samples RF 2001 - RF 2008

Description of drainage system:

Sources of tributaries in karsted marbles and by seepage, flowing via moderate terrain terraces separated by scarps with waterfalls, to the original anomaly point in bog and boulder field.

Geology:

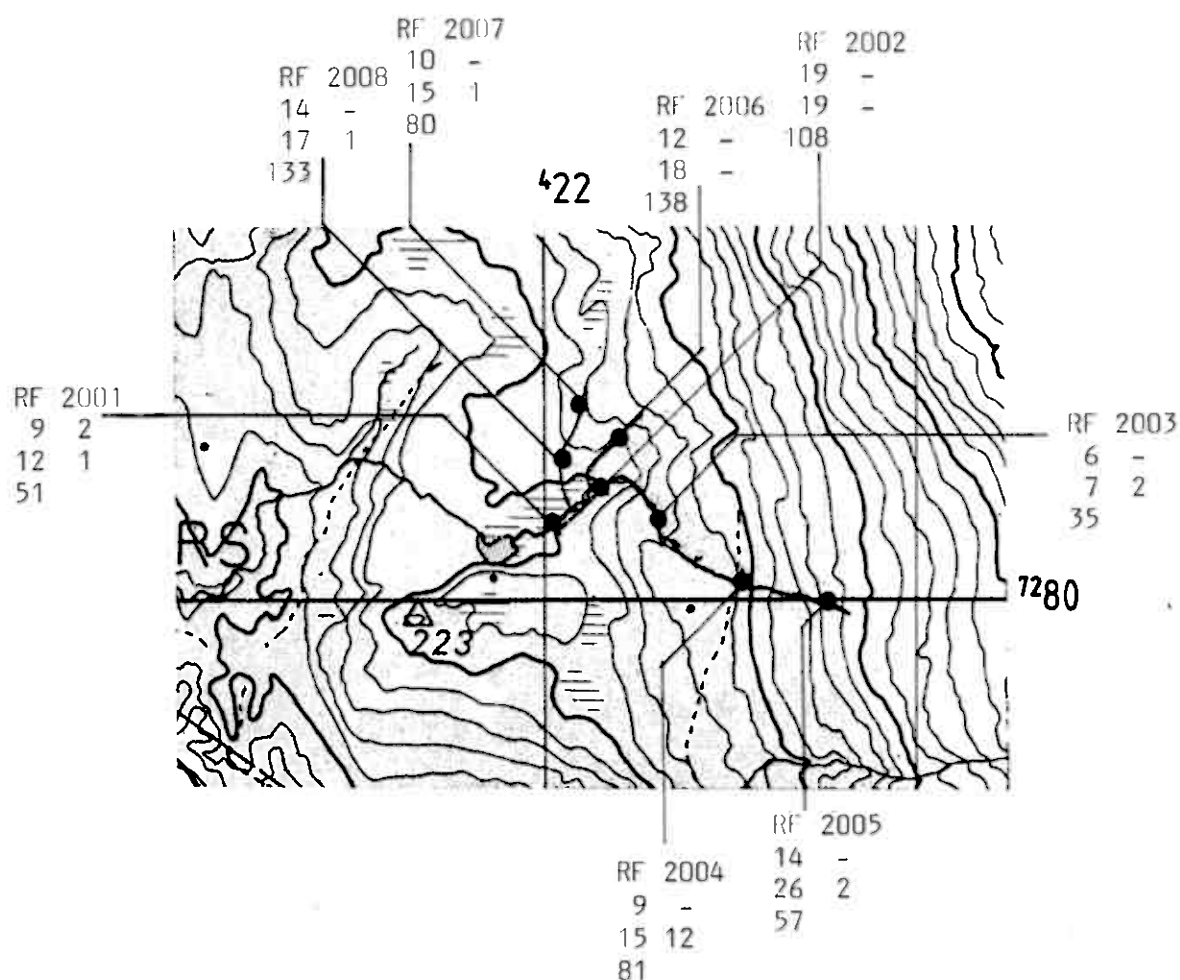
White medium-grained granite with assimilated biotite-schist. These are locally slightly skarned and hornfelsed. Marble horizons occur. Sparse veining (quartz) in the granite (1cm-1dm thick).

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 74 LAKSFORS II
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1993

Claim Name: Ravatnet II No: 76 Size: 0.0 km²

Claim location: Map sheet 1928 III Grane

:Air Photo

:Okø Kart

Pagged: Vee No Partly Claim retained: yes / No

Stream length 1.5 km/ Drainage area: 1.0 km²

Original sample point (22 ppb Au) resampled: Yes-No

Follow up team: CR/AK Duration: 1.0 days

Nos. of follow up samples RF 8049 - RF 8055

Description of drainage system:

The drainage system consists of several parallel streams, washing the steep naked western slope of Reinfjell. These streams all meet in a bog, from which the river continues into a fairly dry, moderately sloped area to the resample point. This lies in the end of another boggy area.

Geology:

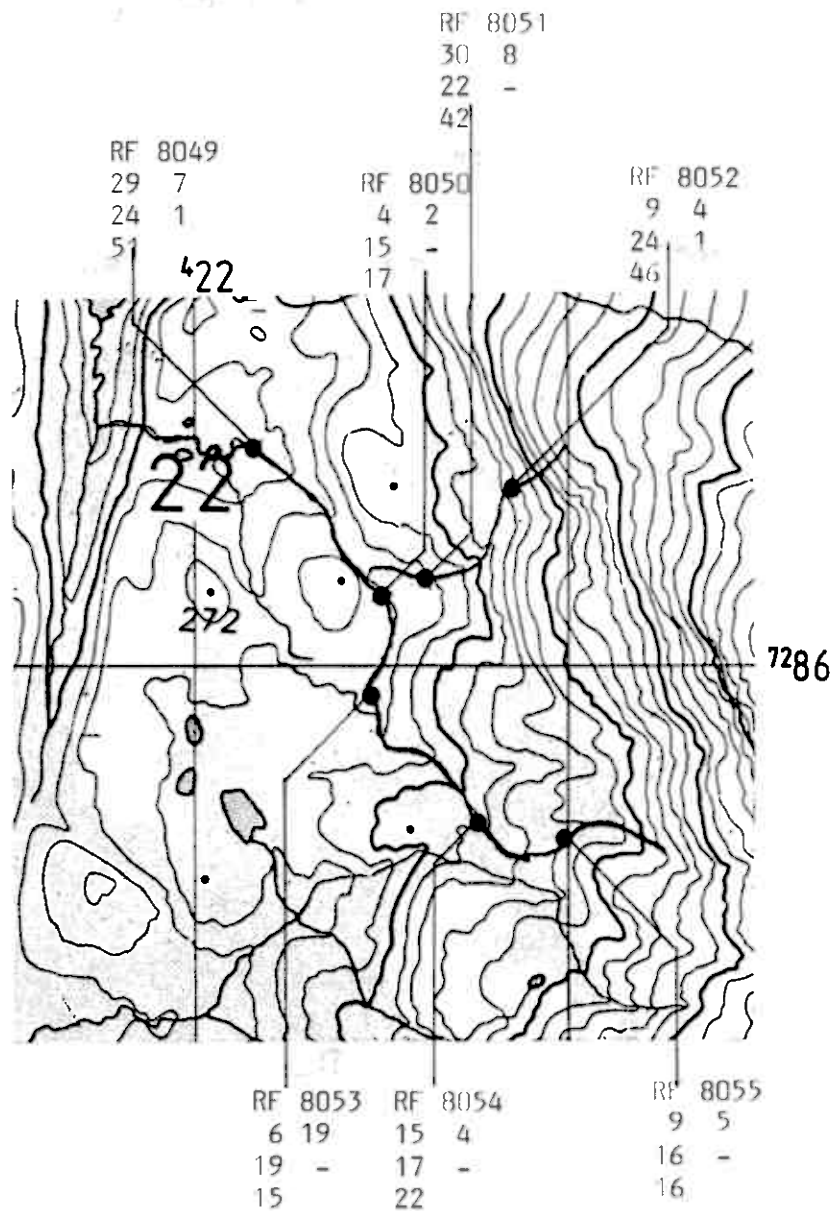
At resample point the rocktype is fine to medium grained, light gneiss with biotite foliation. This foliation diminishes at 8050. Up the mountain slope there is increasing veining of granitic/dioritic composition. Here you see xenoliths (host rock) of more fine-grained and biotite-rich material. Further up the host rock is more coarse-grained, with phenocrysts and garnets. Talus material shows that the top of the mountain consists of rock, looking like Trondhjemite. It is unfoliated, appears as an intrusive. The veining mentioned has a thickness of up to 1/2 m, different ages, some curved, some not, volume increase of host rock ~10%.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 76 RÅVATNA II
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet C No: 69 Size: 6.0 km²

Claim location: Map sheet 1826 III Grane

: Air Photo

: Oko Kart D 179 I, II

Perched: yes-No--- Perch: Claim retained: yes/ No

Stream length 5.0 km/ Drainage area: 8.0 km²

Original sample points (181, 2 ppb Au) resampled: Yes-No

Follow up team: AS/BS Duration: 2.5 days

No. of follow up sample RF 3001 - RF 3068

Description of drainage system:

Numerous tributaries drain boggy areas and the well exposed western slopes of the Reinfjellet valley, thence meandering through bog and glacial till. For the lowermost 1.5 kms the stream flows in a shallow valley with small waterfalls/gulleys with good exposure.

Geology:

Stream drains all the lithological units in the northern part of Reinfjellet i.e. eastern marble, biotite-gneiss, western marble and Reinfjellet granodiorite, lying as N-S to NNE-SSW orientated bands. Going from east to west the sequence is as follows:
1. Intrusives: Porphyritic granodiorite, intruded by a later generation of more acid, equigranular dykes.
2. A 0.5 - 1.0 km broad eastern marble zone, running parallel to the mainstream between Svartvatnet and Nordre Svartvatnet. The marble is interbanded with granodioritic, gneissose rocks and amphibolite lenses and pods. These rocks conceivably represent deformed and metamorphosed dykes. The amphibolites are often sulfide bearing (pyrrhotite, minor pyrite and very few grains of Cu-sulfides.)

The above mentioned rock types are all intersected by nearly undeformed granodioritic dykes.

3. The eastern marble zone is followed by a 2 km. broad biotite schist/gneiss zone. The contact between these two lithologies seems to be gradual over 10 - 30m with decreasing amounts of marble forming bands within the biotite gneiss. The proportion of mafic constituents in the biotite schists is highly variable.

4. Western marble zone of 1 km width. This marble sequence is frequently intruded by leucocratic dykes following the general strike direction.

5. Furthest to the west of the sampled area, intrusive rocks of granodioritic composition were encountered. A zone of 10 - 50 m wide skarn alteration (with diss. py, po) was observed at the contact to the western marble.

Comments:

Taken together with Sor-Svartvatnet D - F ten gold anomalies were detected (4 high range, 2 mid range and 4 low range). As in the Sor-Svartvatnet area as a whole the majority of the larger anomalies appear to be associated with the contacts of the Reinfell porphyritic granodiorite to the metasediments.

Recommendations:

A high priority follow-up target: geological mapping, deep overburden sampling and test ground geophysics.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet D No: 80 Size: 0.5 km²

Claim location: Map sheet 1926 III Grane

Air Photo

Oko Kart D 178 II, IV

Pegged: yes-No---Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 1.0km²

Original sample point (27 ppb Au) resampled: Yes-No

Follow up team: AS/BS Duration: 2.5 days

Nos. of follow up samples RF 3001 - RF 3059

Description of drainage system:

Source is part bog, part exposed plateau terrain, flowing through thick glacial till to a flat overgrown boulder field.

Geology:

See claim no. 69 Sor-Svartvatnet C

Comments:

Ditto.

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet E No: 81 Size: 1.0 km²

Claim location: Map sheet 1926 III Grane

!Air Photo

!Okø Kart D 178 II, IV

Pegged: yes-No---Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 1.0km²

Original sample point (120 ppb Au) resampled: Yes-No

Follow up team: AS/BS Duration: 0.5 days

Nos. of follow up samples RF 3001 - RF 3069

Description of drainage system:

Headwaters are very small, little flow through partly exposed, part bog terrain. Continuing via flat bog into slightly steeper area with better exposures.

Geology:

See claim no. 89 Sor-Svartvatnet C

Comments:

Ditto.

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor-Svartvatnet F No: 82 Size: 0.5 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Oko Kart D 178 II, III

Pegged: yes-No---Partly Claim retained: yes / No

Stream length 2.0 km/ Drainage area: 3.0km²

Original sample point (80 ppb Au) resampled: Yes-No

Follow up team: AS/BS Duration: 1.0 days

Nos. of follow up samples RF 3001 - RF 3069

Description of drainage system:

The headwaters lie in flat to moderately steep terrain of partly exposed biotite gneiss, thence flowing eastward through the densely forested western marble zone.

Geology:

See claim no. 58 Sor-Svartvatnet C

Comments:

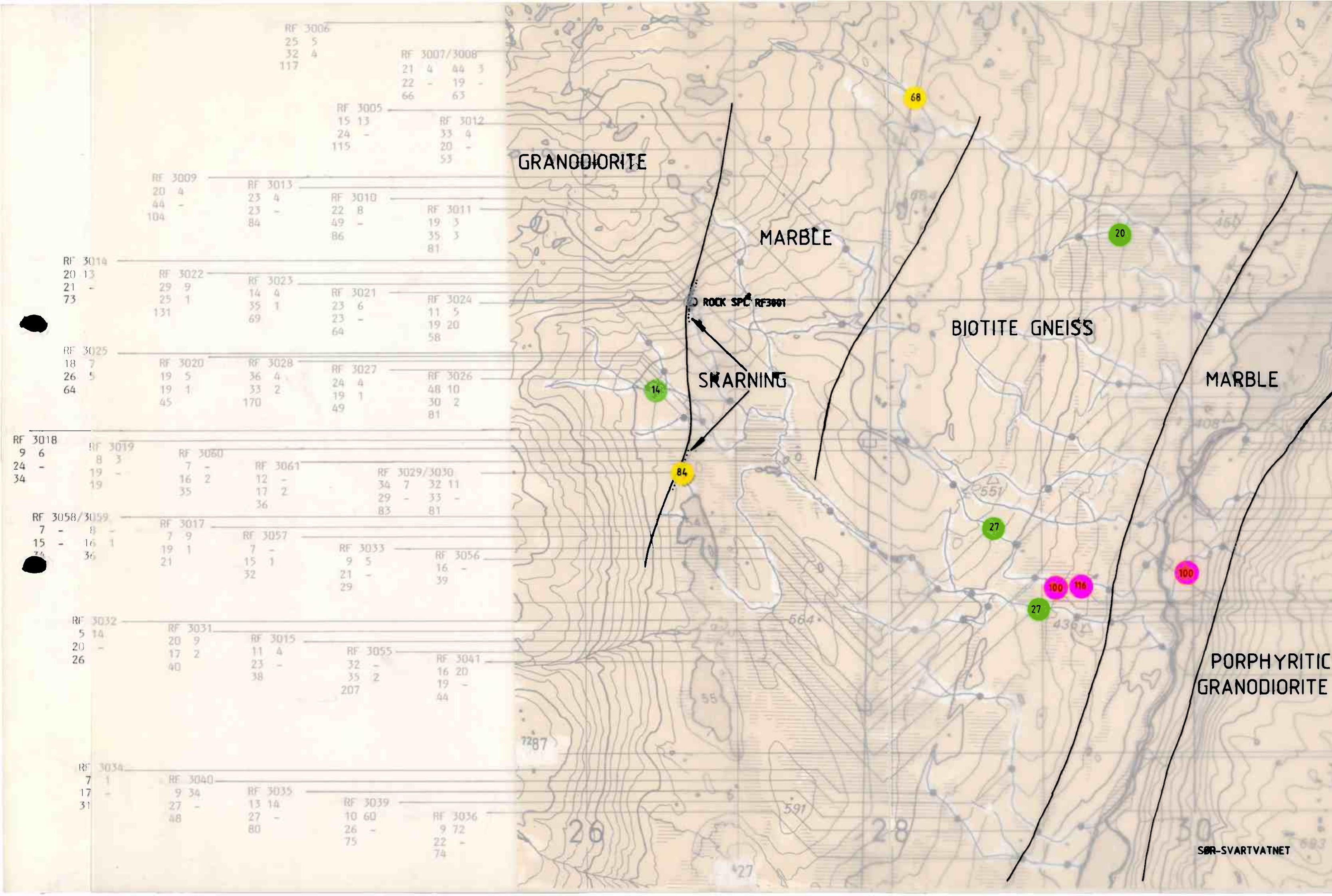
Ditto.

Recommendations:

Ditto.

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name :69,80,81,82
Scale 1:20.000 SØR-SVARTVATNET C-F



	RF 3001	RF 3002	RF 3003	RF 3004
3069	26 9	32 12	26 9	47 6
-	24 -	29 -	31 -	25 -
-	65	99	86	79

	RF 3066	RF 3067	RF 3065	RF 3068
3064	17 -	13 -	20 -	13 -
11	25 -	20 -	30 1	19 2
-	65	61	57	61

	RF 3046	RF 3016	RF 3062	RF 3063
RF 3048	13 -	44 4	24 -	9 4
14 -	33 -	26 1	29 -	29 2
23 1	36	80	39	23
46				

	RF 3051	RF 3045	RF 3047	RF 3049
RF 3050	9 -	27 -	11 -	8 -
5 -	18 1	16 -	22 -	24 7
1 1	45	28	47	38
3				

	RF 3054	RF 3042	RF 3043	RF 3044
RF 3053	8 -	6 -	9 26	16 4
17 -	17 -	17 -	25 5	33 -
20 2	40	29	33	41
60				

	RF 3052			
	12 -			
	17 2			
	50			

	RF 3038			
	10 25			
	21 2			
	81			
	RF 3037			
	14 32			
	19 -			
	107			

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Stabforsmoen No: 20 Size: 5.5 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart DQ 175 I; 176 III

Pegged: Yes No Permit: Claim retained: Yes No

Stream length 7.0km Drainage area: 6.0 km²

Original sample points(142 ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 5.0 day

Nos. of follow up sample : FF 5026 - FF 5176
 FF 6001 - FF 6010
 FF 6020 - FF 6023

Description of drainage system:

The drainage system covers 6 km² and consists of the main stream and 10 tributaries. The lower part of the main stream has an average slope of 20° and contains several small and 2 major falls, while the upper half is less steep. Throughout its length the stream runs on bare rock, often in canyons.

Geology:

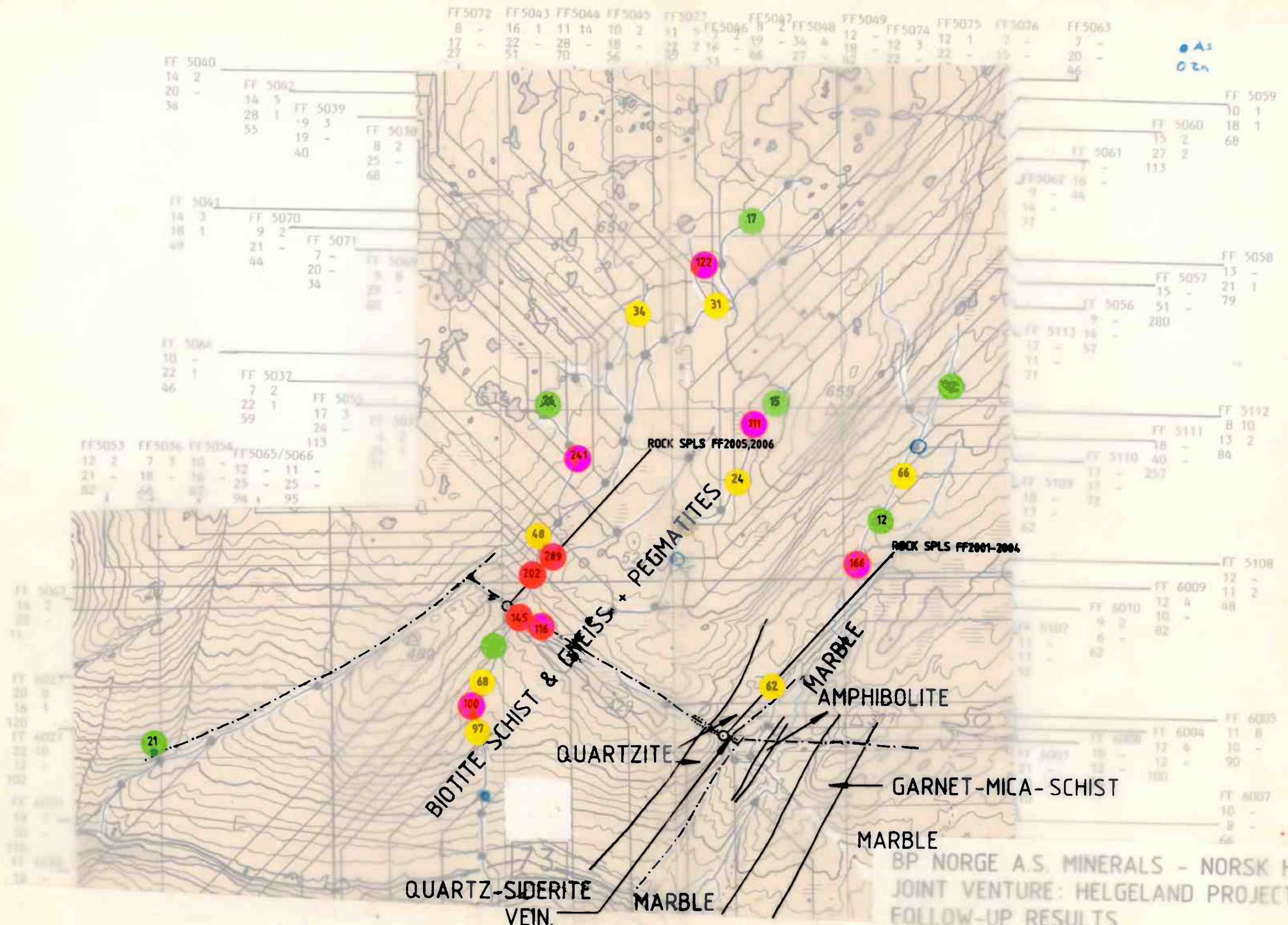
Dominated by biotite-rich quartz-mica schists, intruded by pegmatites. Serpentinite occurs in the upper part of the drainage system. A horizon of quartzite appearance occurs in the schists towards the SE, where marbles also make an appearance. Quartz veining occurs associated with a NW-SE fracture, locally containing siderite.

Comments:

Numerous low to high-range Au anomalies with no apparent pattern of distribution.

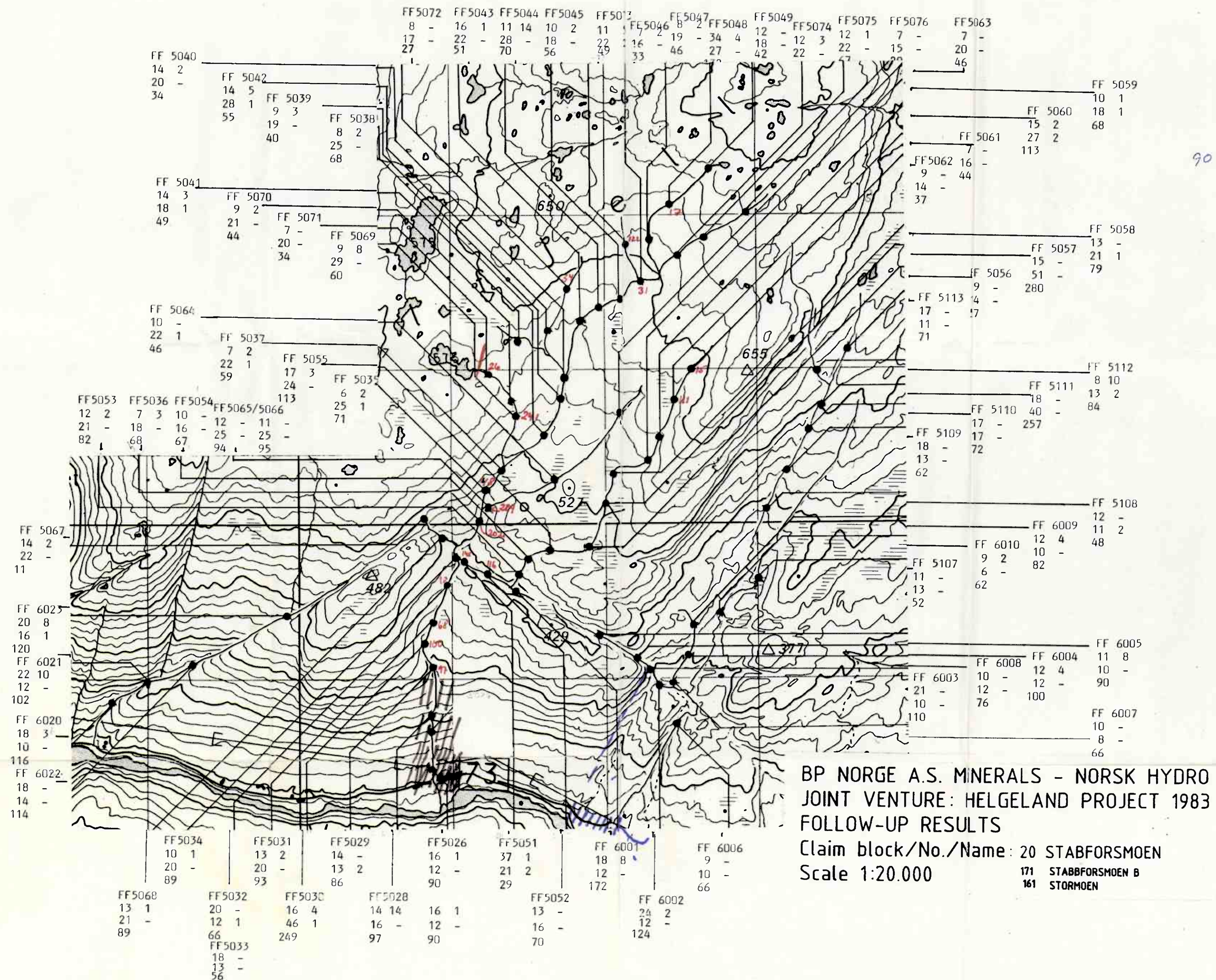
Recommendations:

A high priority follow-up target. Detailed geology, lithogeochemistry plus possible D.O.B. See also 161 Stormoen.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS

ack/No./Name: 20 STABFORSMOEN



ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Stormoen No161 Size: 2.0 km²

Claim location: Map sheet 1926 III Grane

:Air Photo

:Okø Kart

Regged: Yes-No---Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 2.5 km²

Original sample points(47 ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:1.0 day

Nos.of follow up sample : FF 5107 - FF 5113

Description of drainage system:

The lower part was a flat meandering stream approx. 1/2 -1m wide running in a swamplike area - the upper part runs in a small canyon with several 1/2 -1m high waterfalls. One place an underground stream emerged 1/2m from the main stream and joined it.

Geology:

The bedrock is in general poorly exposed. When observed, it consists of greyish-white to grey marble. Sometimes with a poorly developed schistosity.

Comments:

See 20 Stabforsmoen.

Recommendations:

Ditto.

ENERKA

ANOMALY FOLLOW UP

HELGELAND PROJECT 1983

Claim Name: Storvasaasen No164 Size: 0.5 km²

Claim location: Map sheet 1826 II Eivera

:Air Photo

:Okø Kart

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 1.0 km²

Original sample point (31 ppb Au) resampled: Yes No

Follow up team: GP/OK Duration: 1.0day

Nos. of follow up sample : EI 6008 - EI 6012

Description of drainage system:

Streams sampled drain east and west sides of a long valley, descending via cliffs to the west, and via more gentle topography with karst phenomena to east.

Geology:

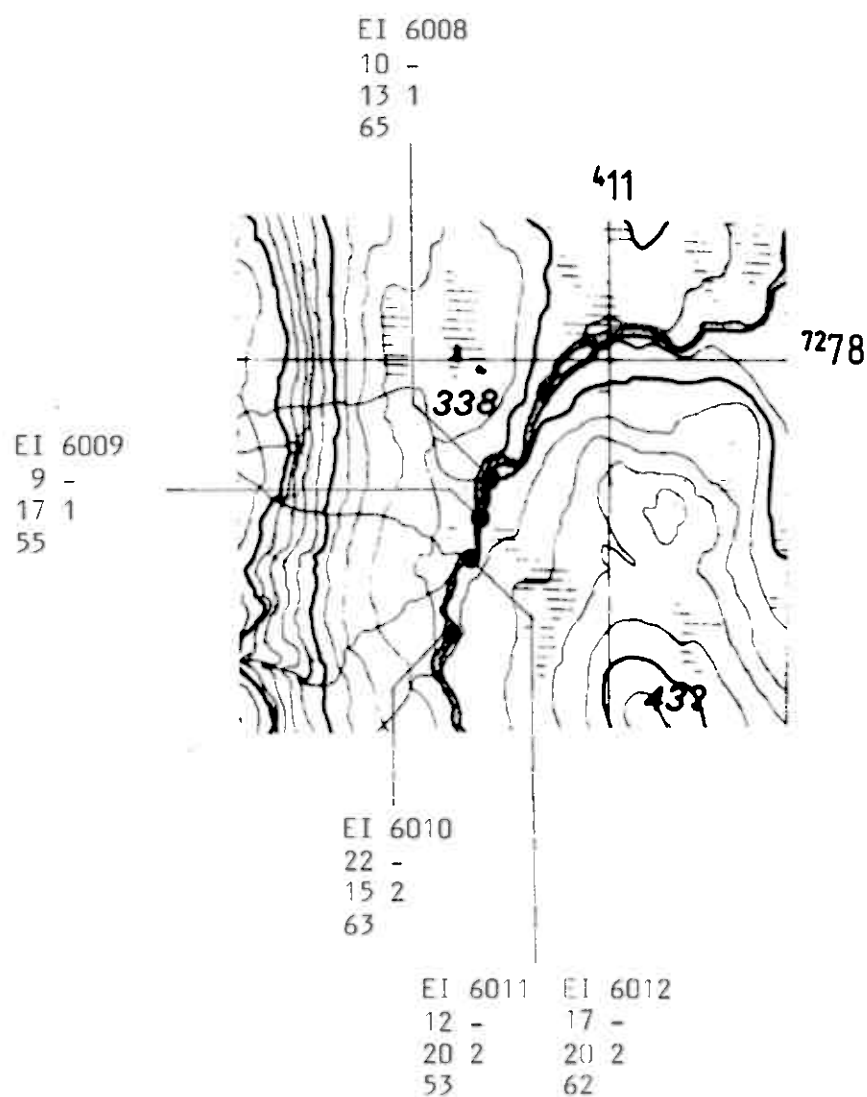
Dominated by locally gneissose granodiorite with common marble bands.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 164 STORVASSAASEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Fjelldenden No: 91 Size: 1.5 km²

Claim location: Map sheet 1826 II Eitera

 : Air Photo

 : Oko Kart DN 178 I

Pegged: Yes No Partly Claim retained: yes/ No

Stream length 0.5 km/ Drainage area: 0.5 km²

Original sample point (43 ppb Au) resampled: Yes-No

Follow up team: TK/HK Duration: 0.5 days

Nos. of follow up sample EI 7063- EI 7064

Description of drainage system:

Short stream (300-400 m) above 1982 anomaly rising in bedrock.

Geology:

No exposures, due to heavy overburden. Boulders of gneiss in the streambed.

Comments:

Two low range and one high range anomalies. Trace and base metal concentrations generally low. Drift seriously hampers this claim and those of 101 Kroken and 112 Steinbekken.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kroken No: 101 Size: 2.25 km²

Claim location: Map sheet 1826 II Eiters

:Air Photo

:Okø Kart DN 178 II

Regged: Yes No Partly Claim retained: yes/ No

Stream length 1.5 km/ Drainage area: 2.5km²

Original sample points (41,9,318 ppb Au) resampled: Yes-No

Follow up team: TK/HK Duration: 1.0 days

Nos. of follow up sample EI 7051- EI 7062

Description of drainage system:

Two branches rise in meltwater fed bogs. Good development of active stream sediment. The stream descends through moraine at lower levels.

Geology:

Biotite-muscovite schists with pegmatite veins. Abundant well-rounded boulders of chromite bearing serpentinite occur in the drift below the moraine level. These boulders were not found further upstream.

Comments:

See no. 91 Fjellenden

Recommendations:

Ditto.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Steinbekken No: 112 Size: 1.0 km²

Claim location: Map sheet 1926 II Eitera

:Air Photo

:Okø Kart DN 178 I

Pegged: Yes-No---Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 1.5km²

Original sample point (41 ppb Au) resampled: Yes-No

Follow up team: TK/HK Duration: 1.0 days

Nos. of follow up sample EI 7066- EI 7070

Description of drainage system:

Stream rises via a small lake and a bog, descending over marbles.

Geology:

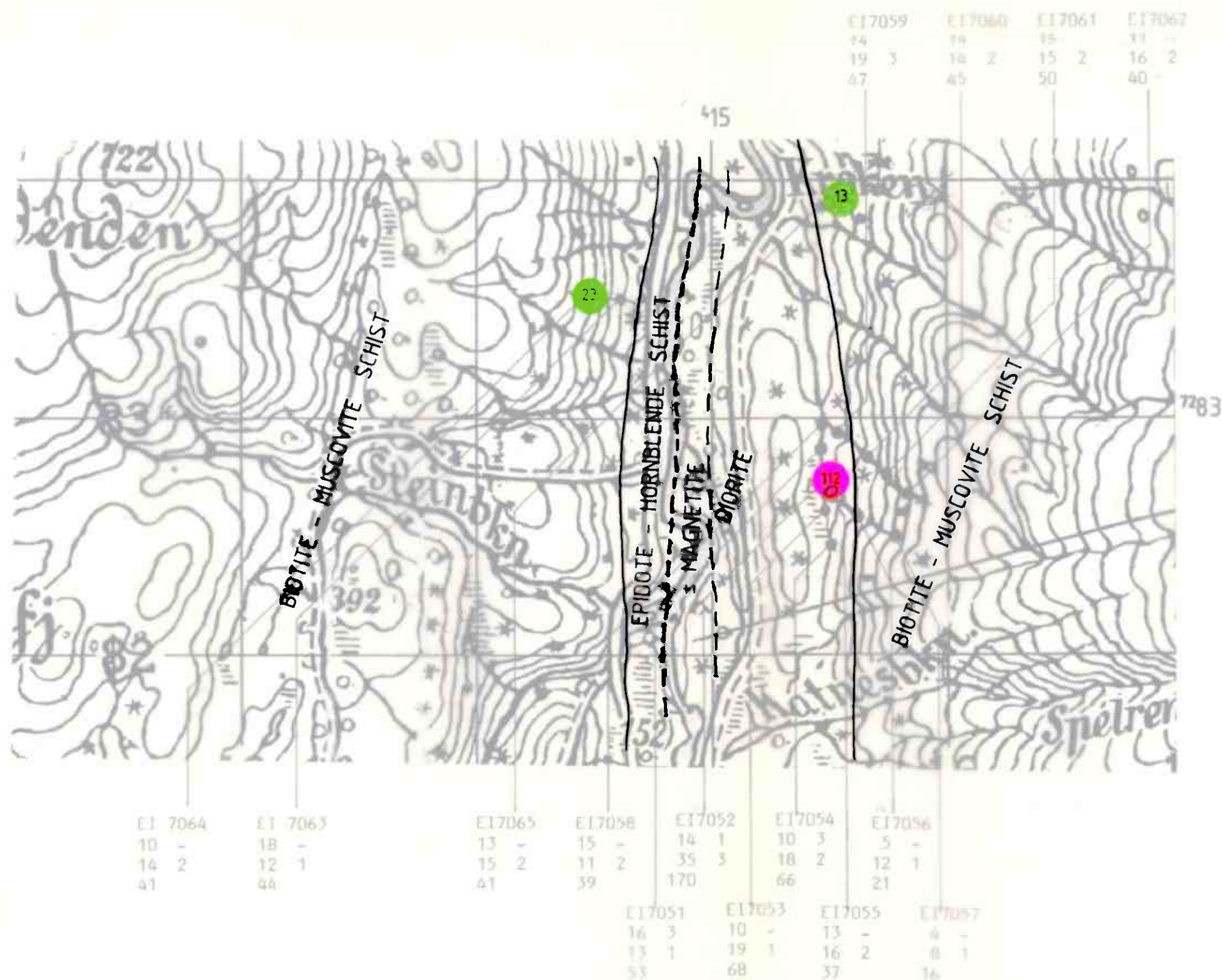
Micaschist and dioritic gneisses with pegmatite veins, interbanded with marbles. Granodiorite abundant in the western part of the area.

Comments:

Two low range and one high range anomalies. Trace and base metal concentrations generally low. Drift seriously hampers this claim and those of 101 Kroken and 91 Fjelldenden.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name : 91,101,112:FJELLDENDEN,

Scale 1:20.000 KROKEN, STEINBEKKEN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Saeterskaret No: 33 Size: 1.25 km²

Claim location: Map sheet 1826 II Eitera

:Air Photo

:Okø Kart

Pegged: ~~Yes~~ No Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 1.0 km²

Original sample point (4ppb Au) resampled: ~~Yes~~ No

Follow up team: CR/AK/JT Duration: 0.5 day

Nos. of follow up sample : VV 2006 - VV 2010

Description of drainage system:

A high energy stream (little sediment), rising in cliffs and talus slopes, flowing over bedrock down to numerous small lakes and potholes. At many points the stream disappears beneath talus. Generally thin or absent overburden.

Geology:

Overwhelmingly granodiorite - of fine-grained and porphyritic types, the latter being younger. Late fissure fillings of zeolite to 0.5m scale.

Comments:

No Au anomalies.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Vestfjeldene No: 32 Size: 3.75 km²

Claim location: Map sheet 1826 II Eitersa

Air Photo

Oko Kart DL 178 IV; M 178 III

Pegged: Yes No Fertile Claim retained: Yes No

Stream length 7.0km Drainage area: 5.0 km²

Original sample point (ppb Au) resampled: Yes No

Follow up team: AS/BS -(CR/AK/UT) Duration: 3.5 day

Nos. of follow up sample : VV 2001 - VV 2005
 VV 2011 - VV 2017
 VV 3001 - VV 3017

Description of drainage system:

Source in snow-filled gulleys, descending via gulleys in well exposed terrain to a single gully, thence into an area with numerous large overgrown boulders, (mainly derived from the surrounding slopes), with thin overburden which is probably moraine derived.

Geology:

The axis of the stream system follows a broad NE-SW trending raft of metasediments within both prophyritic and equigranular granodiorite. The metasediments are dominated by biotite-hornblende schist/gneiss which contain a thin marble horizon. The latter is skarned at contacts with numerous granite/granodiorite dykes, sulphides being observed at only one locality (VV 3001). To the N. West of the system, numerous smaller lenses and rafts of pelite occur in the granodiorite. Intense zones of stilbite introduction occur striking sub-parallel (i.e. approx. 045°) to the main gully, the largest of these (approx. 70m broad x 200m strike), occurring near sed. sample points VV 3012, 3013.

Comments:

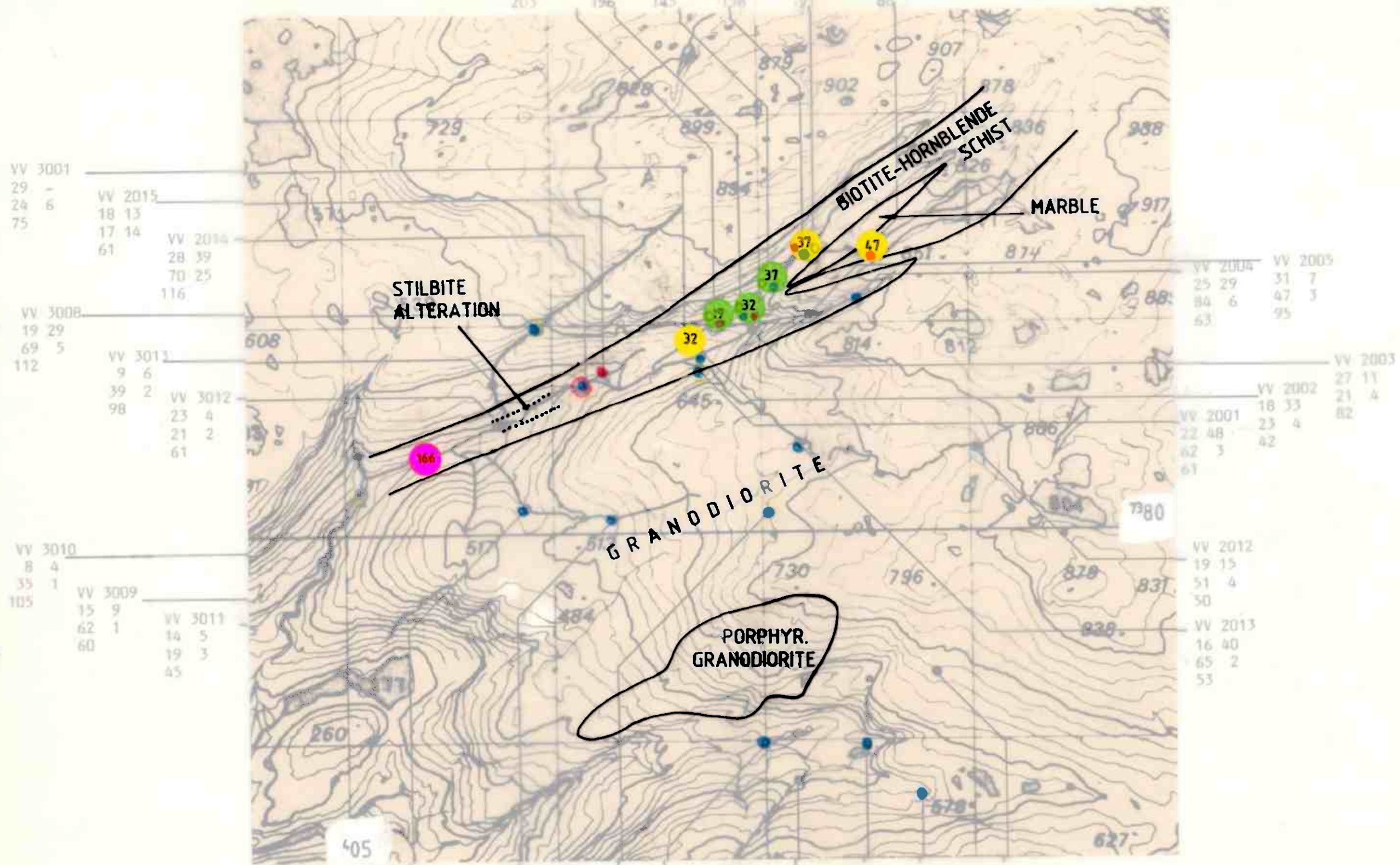
Seven Au anomalies were detected in the main stream and one of the upper gulleys along a 2.5km length (1x high-range, 3x med-range, 8x low-range). Skarn sample VV 3001 was not anomalous. The source is likely to be closely bound to the 045 fracture system within the metasedimentary raft.

Recommendations:

Detailed geology/lithogeochemistry.

VV 3002	VV3003	VV3004	VV3005	VV3006	VV 3007
41 -	34 29	28 18	36 27	28 9	15 12
46 30	91 27	83 8	58 55	63 4	28 10
203	196	145	158	71	68

● W
 ● As
 ○ Zn



VV 3001	VV 2015	VV 2014
29 -	18 13	28 39
24 6	17 14	70 25
75	61	116

VV 3008	VV 3011	VV 3012
19 29	9 6	23 4
69 5	39 2	21 2
112	98	61

VV 3010	VV 3009	VV 3011
8 4	15 9	14 5
35 1	62 1	19 3
105	60	45

VV 2004	VV 2005
25 29	31 7
84 6	47 3
63	95

VV 2003	VV 2002	VV 2001
27 11	18 33	22 48
21 4	23 4	62 3
82	42	61

VV 2012	VV 2013
19 15	16 40
51 4	65 2
50	53

VV 2016	VV 2017	VV 2010	VV2009	VV2008	VV2007	VV2006
8 31	5 60	10 27	14 9	14 29	13 27	9 5
27 2	27 2	25 2	35 5	48 2	45 2	28 3
56	48	40	96	48	56	33
		VV 2011				
		16 77				
		116 2				
		85				

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name 32 VESTFJELDENE &
 33 SAETERSKARET
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Forholten No: 89 Size: 2.5 km²

Claim location: Map sheet 1825 II Eitera

 : Air Photo

 : Oko Kart DN 179 I, II, III, IV

Pegged: Yes No Partly Claim retained: yes/ No

Stream length 3.0 km/ Drainage area: 3.0 km²

Original sample point (107 vob Au) resampled: Yes No

Follow up team: TK/HK Duration: 2.0 days

Nos. of follow up sample EI 7030- EI 7050

Description of drainage system:

Main stream rises in bog fed by meltwater, descending via karst systems. A tributary has its source in Klubvath. N.B. possible contamination on samples EI 7048 - 7050 from roads, forrest tracks.

Geology:

The high ground in the west consists of micaschist and granodiorite, grading into interbedded marbles and quartzites together with amphibolites and acid horizons (?tuffaceous) in the lower parts of the valley.

Comments:

Three low-range and one high range anomalies, which appear to have a source within quartz-diorite to the north-west.

Recommendations:

Detailed geology and litho-geochemical sampling. Compare also with no. 113 Forholten B.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Forholten B No:113 Size:1.75 km²

Claim location:Map sheet 1826 II Eitera

 :Air Photo

 :Okø Kart DN 180 II,IV

Pegged: yes No-Partly Claim retained: yes/ No

Stream length 2.0 km/ Drainage area:2.0km²

Original sample point (107 ppb Au) resampled:-Yes No

Follow up team: TK/HK Duration:1.0 days

Nos.of follow up sample EI 7025- EI 7029

Description of drainage system:

Stream originates in a cliff,flowing powerfully through a very steep and narrow valley,containing large boulders at upper levels.Many potential sample points inaccessible.

Geology:

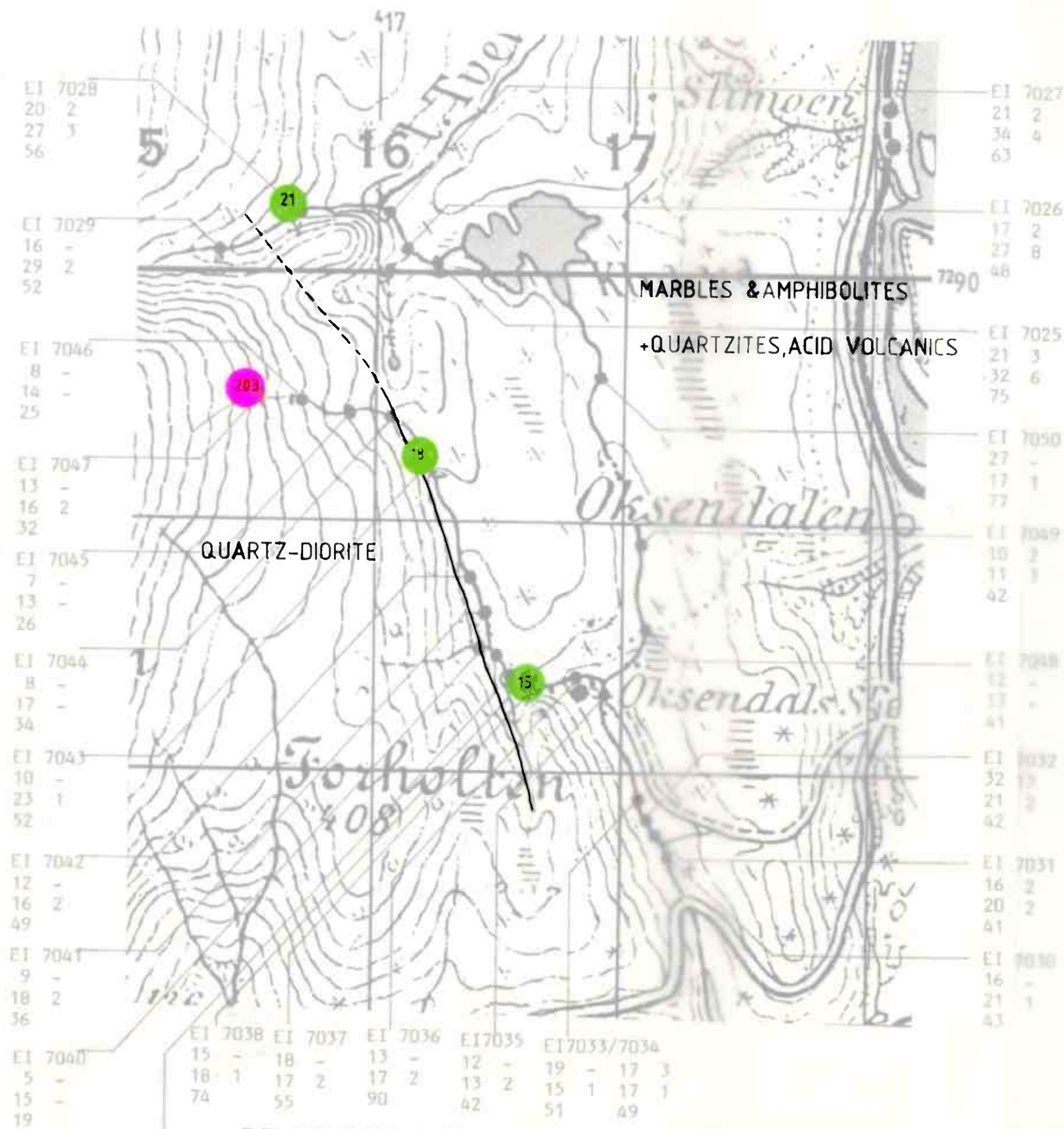
Interbedded quartzites,amphibolites and high grade gneisses form the moutains at upper levels,with impure marbles and thin amphibolites at lower levels.Along strike of the major structure,which is followed by the stream at higher altitudes tourmaline and apatite bearing quartz-veins were recorded.The structure runs NNE-SSW and transects the lithologies perpendicular.

Comments:

See no. 89 Forholten.

Recommendations:

The east-west trending structures should be examined carefully as a possible bedrock source for the high level gold anomaly.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 113+89 FORHOLTEN B

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Fjellskarelven No: 62 Size: 2.0 km²

Claim location: Map sheet 1828 II Eitera

:Air Photo

:Okc Kart DN 178 I,II

Pegged: yes-No Partly Claim retained: yes / No

Stream length 1.0 km/ Drainage area: 1.0km²

Original sample point (138 ppb Au) resampled: Yes-No

Follow up team: GT/OK Duration: 1.0 days

Nos. of follow up sample EI 6001- EI 6007

Description of drainage system:

Several tributaries draining the east and west sides of a NW-SE trending valley were sampled together with the main stream.

Geology:

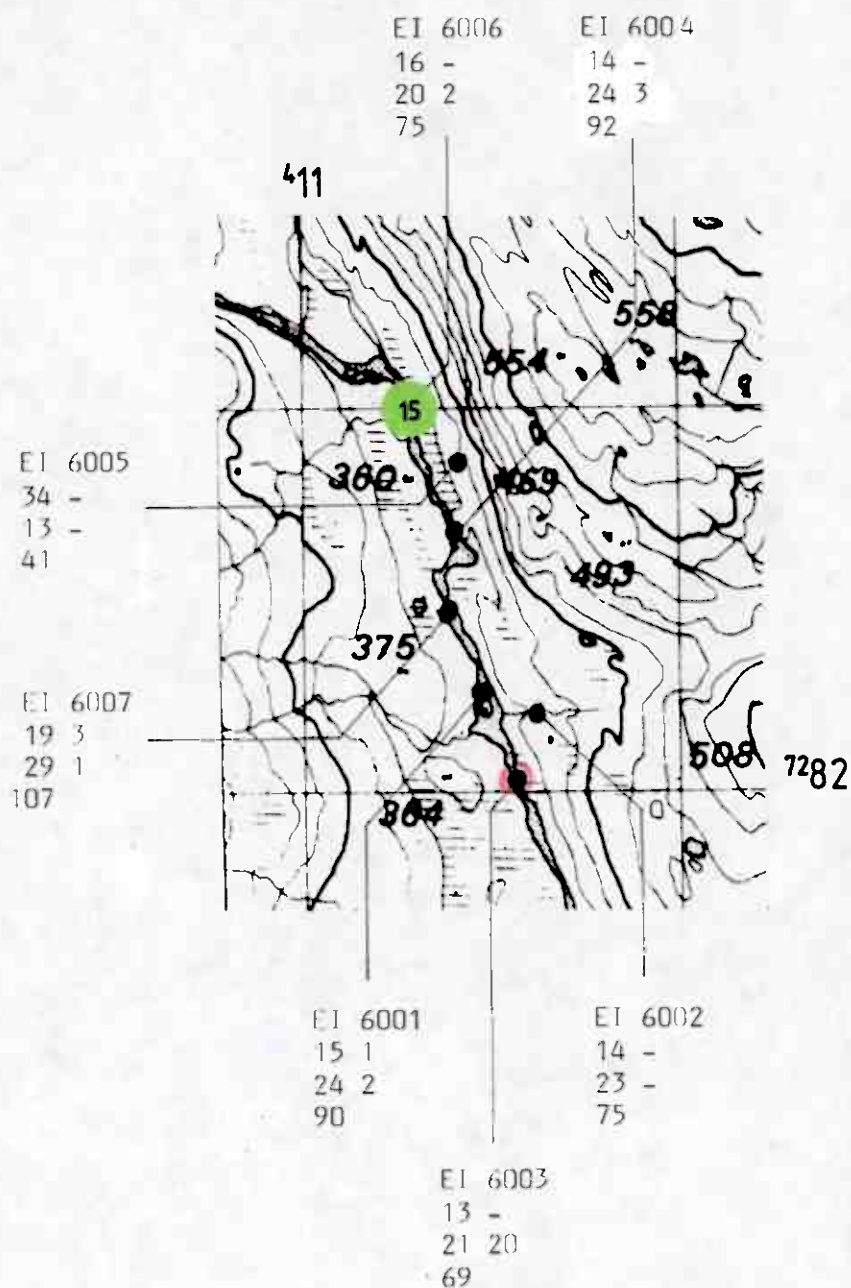
Dominated by granodiorite with minor occurrences of mica schist/gneiss, green metasediments and quartz veins.

Comments:

Only one low range gold anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 62 FJELLSKARELVEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Eiteraen No: 58 Size: 1.00 km²

Claim location: Map sheet 1826 II Eitera

:Air Photo

:Okø Kart DN 176 5-2

Pegged: yes No Partly Claim retained: yes / No

Stream length 1.5 km/ Drainage area: 1.0km²

Original sample point (137 opp Au) resampled: Yes-No

Follow up team: TK/HK Duration: 0.5 days

Nos. of follow up sample EI 7081- EI 7084

Description of drainage system:

Rises in a boulder pile, concealing a karst outlet. Descends via several karst caverns, running over bedrock at lower levels. Bog at original sample point.

Geology:

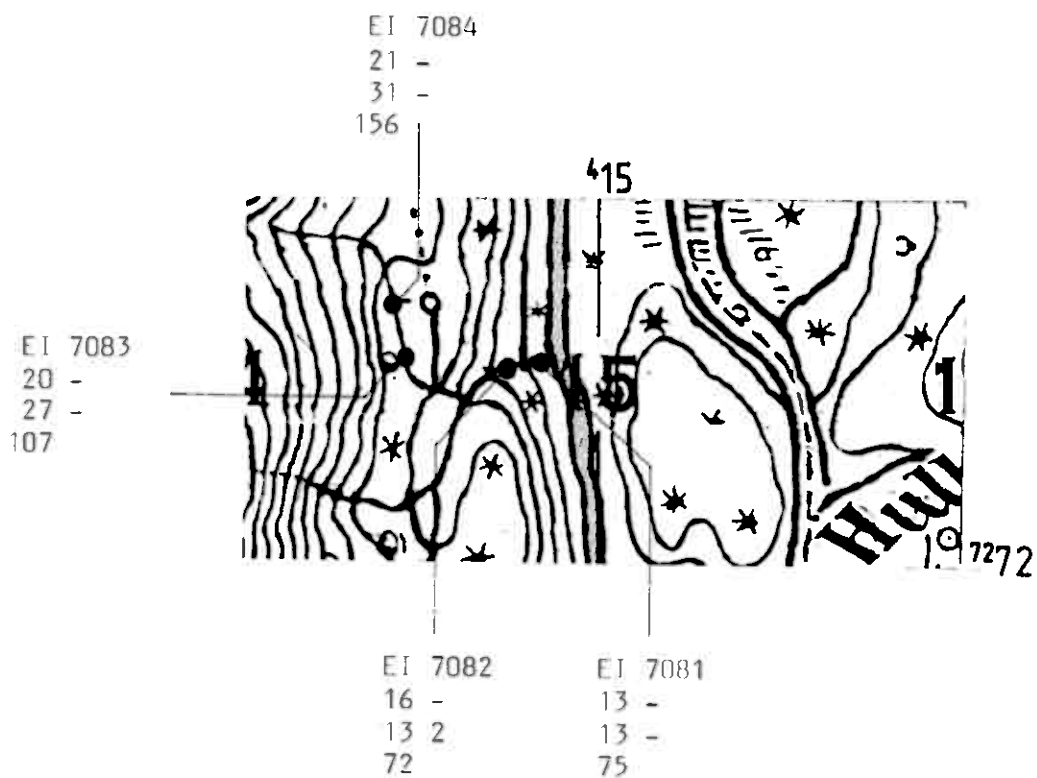
Partly pyrite-pyrrhotite bearing mica-schist and grey gneiss with horizons of coarse, white to light grey marble. Quartz rich boudins occur locally. Amphibolitic horizons, less than 10 m in width.

Comments:

No gold anomalies detected. Trace and base metal values at background level.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 58 EITERÅEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Vistinderne No: 35 Size:0.75 km²

Claim location:Map sheet 1826 II Eitera

:Air Photo

:Oko Kart DN 176 II

Pegged:yes No-Partly Claim retained: yes / No

Stream length 1.0 km/ Drainage area:0.5km²

Original sample points (31.37 ppb Au) resampled: Yes-No

Follow up team: KB/KA Duration:1.0 days

Nos.of follow up sample EI 5001- EI 5009

Description of drainage system:

Several tributaries originating in snowfields descend via steep slopes of bare rock.

Geology:

Biotitic granite-gneiss with pegmatoids containing a serpentinite pod and minor amphibolite.

Comments:

Only one low range gold anomaly detected.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:TaalitiNo:165 Size:0.5 km²

Claim location:Map sheet 1826 II Eitera

:Air Photo

:Okø Kart

Pegged:yes---No Partly Claim retained: yes/ No

Stream length 2.0 km/ Drainage area:2.0km²

Original sample point (196 ppb Au) resampled: Yes-No

Follow up team: TK/HK Duration:1.0 days

Nos. of follow up sample EI 7071- EI 7077

Description of drainage system:

Stream rises in a small lake, flows through small bogs thence descending over a steeper slope, partly over bedrock. Small tributary at smaller level also sampled.

Geology:

Biotite schist intruded by granite/granodiorite with barren and alteration free veining in contact zone.

Comments:

One isolated high range gold anomaly, not associated with anomalous trace or base metal values.

Recommendations:

None. Applies also to no. 96 Granheim.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Granheim No: 90 Size: 1.0 km²

Claim location: Map sheet 1826 II Eitera

:Air Photo

:Okø Kart DN 177 I, III

Pegged: yes---No Partly Claim retained: yes/ No

Stream length 0.5 km/ Drainage area: 1.0km²

Original sample point (33 ppb Au) resampled: Yes-No

Follow up team: TK/HK Duration: 0.5 days

Nos. of follow up sample EI 7078- EI 7080

Description of drainage system:

Stream originates in a bog, descending partly over bedrock, with a steep slope at lowermost levels. Seepage and possible contamination from bank along length of stream.

Geology:

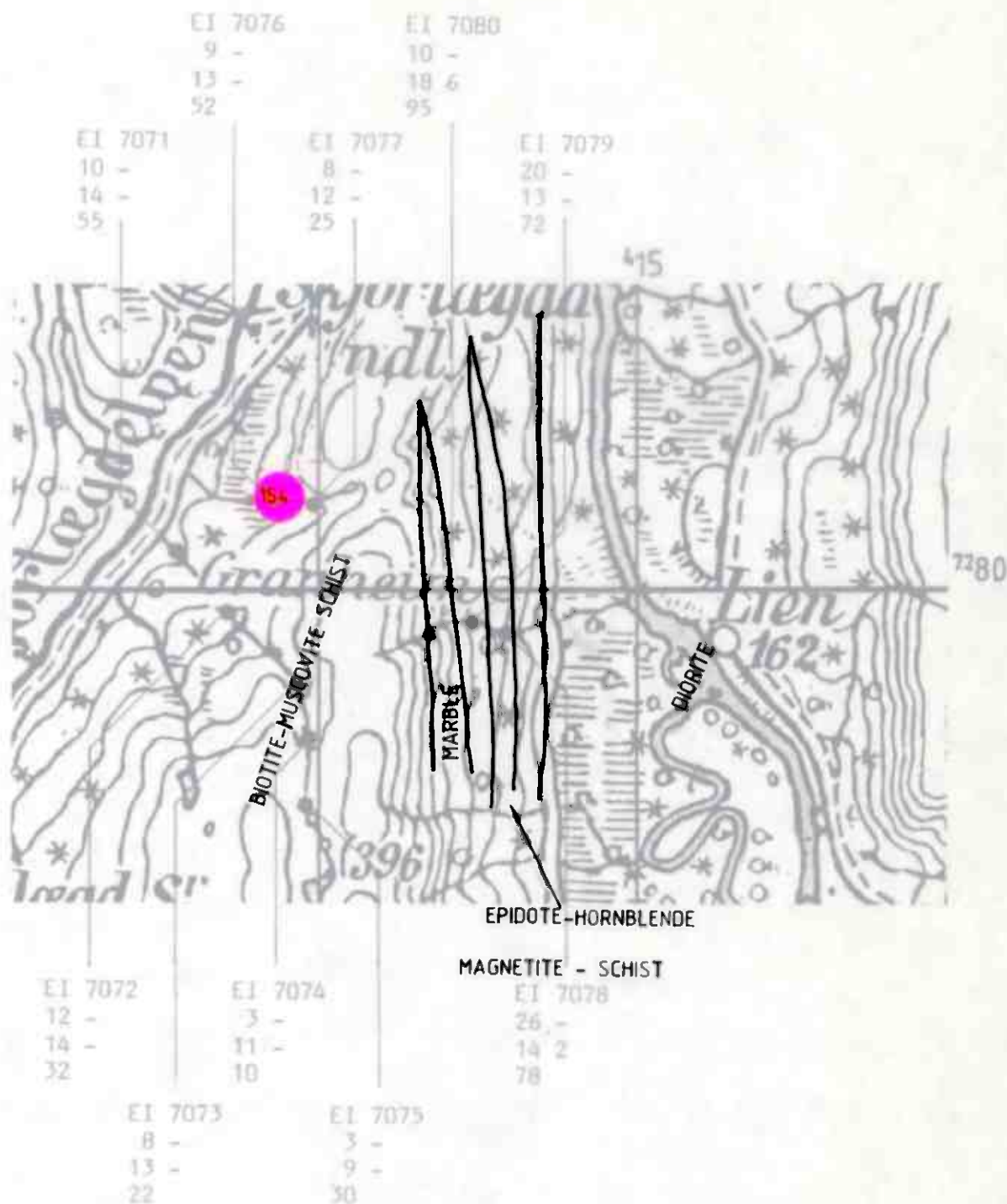
Heavy overburden. Muscovite rich micaschist are outcropping in the streambed. Large boulders of pegmatite and amphibolite at lower levels.

Comments:

One isolated high range gold anomaly, not associated with anomalous trace or base metal values.

Recommendations:

None. Applies also to no. 165 Taaliti.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 90+165 GRANHEIM +
Scale 1:20.000 TAALITI

96 GRANHEIM
165 TAALITI

NEVER STOP

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Almosen No: 21 Size:6.5 km²

Claim location:Map sheets 1826 III Vevelstad

1826 II Eitersa

:Air Photo F 011,012,013

DJ 179 I,II

Pegged: Yes-No Partly Claim retained: yes/ No

Stream length 11.0km/ Drainage area:9.0 km²

Original sample points:(199,191ppb Au) resampled:Yes/No

Follow up team: AS/BS Duration:1.0 days

Nos. of follow up samples SF 3047 & SF 3060

Description of drainage system:

Lower (i.e. western) part of sampled stream falls steeply to the coast to ~100-150 m above sea level, to flat area of partly boggy terrain. Two tributaries join the mainstream in this area. The one from the south (A) and the other from the north (B). The upper part (i.e. east) of the sampled stream runs in steep gorge. The main stream was sampled to a point 310 m above sea level very little overburden in the upper part of the stream system. (See sketch map).

Geology:

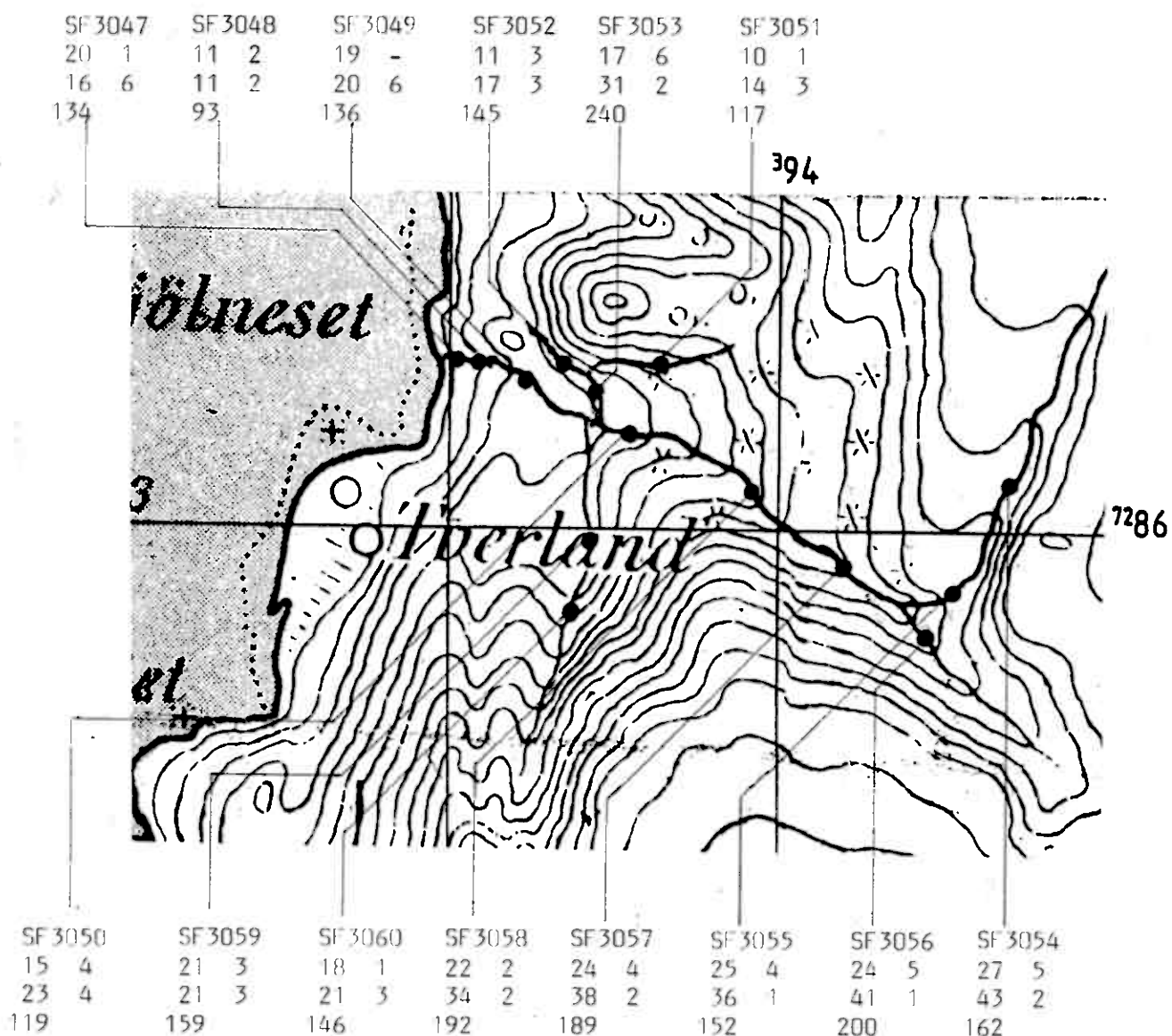
The rock type observed in the area was mica schist/gneiss. In the western part up to 20% of porphyritic-granodiorite was observed as irregular dykes parallel to foliation. Leucocratic fine-medium grained granitic dykes were observed in the whole area. (dm-m scale ~1dyke/25m). The dykes are discordant to foliation and only very slightly to undeformed. At the eastern end of tributary B at sample point SF304 boulders of marble were observed. The foliation in the western part has a strike of 170°-10°. Whilst the strike of the foliation in the eastern steep part is 90°-100°. Stilbite filling of joints mm scale observed at sample points 3054-56.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 21 ALMOSEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: S.Vesterdalselven No:31 Size:1.0 km²

Claim location:Map sheet 1826 III Vævelstad

Air Photo /

Oko Kart

Requred:Yes No-Perthy Claim retained: yes/ No

Stream length: 2.0km Drainage area:3.0 km²

Original sample point(25 ppb Au) resampled:Yes/No

Follow up team: OK/GT Duration:1.0 days

Nos.of follow up samples: TE 4010 - TE 4014

Description of drainage system:

The stream follows a steep sided east -west trending valley. Tributary valleys run north - south with near vertical walls. East of U 96000 the stream bed widenes and outcrops are sparse.

Regional Geology:

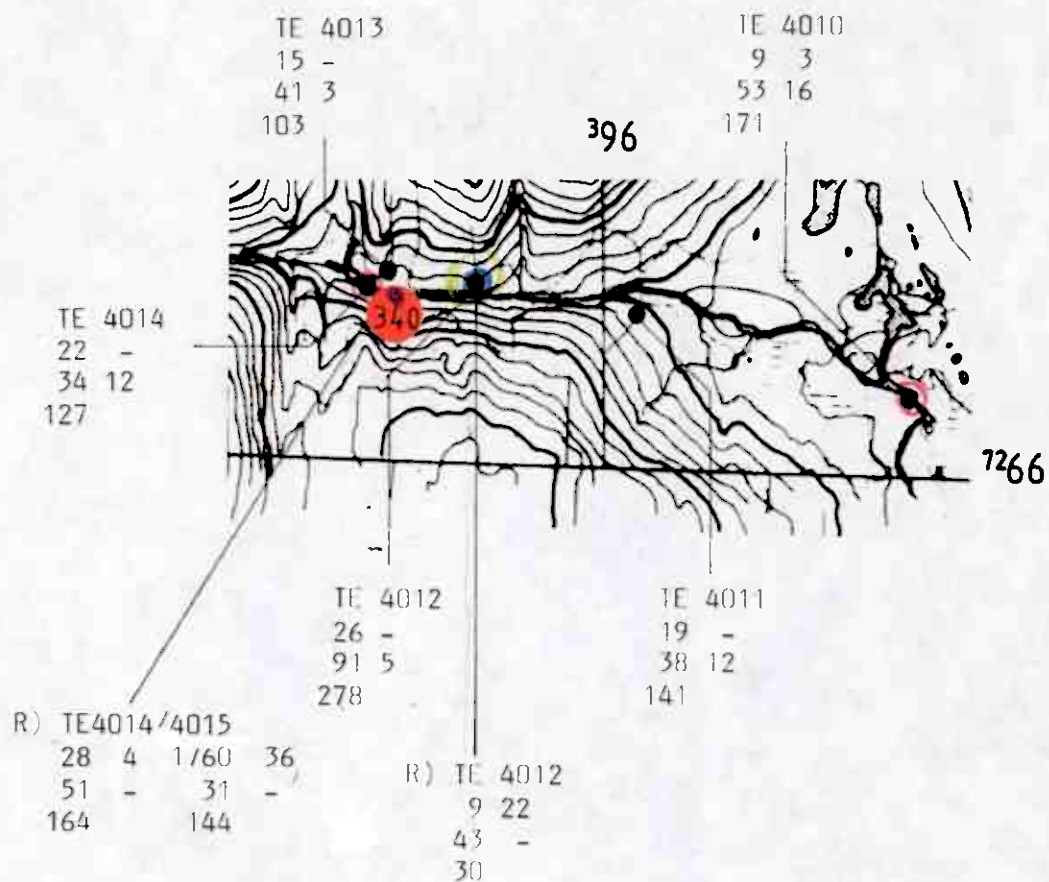
The area is dominated by granodiorite. In addition mica-schists, marbles and greenish metasediments (skarn) were found. The general strike of the metasedimentary layers and rafts within the granodiorite is north-south. The metasediments vary in width from 1-25m and the marbles often form detached pods and lenses, elongated along strike. Granodioritic veining in the metasediments is common, as well as a stilbite alteration of the intrusives. Rock samples TE 4012, 4014 and 4015 were collected to test mineralisation and/or alteration found. Sample TE 4015 returned with 340 ppb Au, 1760 ppm Cu and 35 ppm As. This sample was collected from a 1-3 dm wide sulfide bearing, fine grained greenish rock at the contact between granodiorite and marble (likely to be a metamorphic skarn). The mineralization is crosscut at right angle by a 1 m wide north-south trending alteration zone. The alteration product is a crumbly, pale red material (stilbite) and was sampled separately (TE 4014). This sample returned without detectable Au.

Comments:

Anomalous rock sample was collected from outside the claimed area! No gold anomalies detected in stream sediments.

Recommendations for further follow up:

Bulk sampling of the mineralization, local geology/lithogeochemistry.



R) Denotes rock samples

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 31 S. VESTERDALSELVEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Rubben No:29 Size:0.5 km²

Claim location:Map sheet 1826 III Vævelstad

:Air Photo 5575 H 14/

:Okø Kart

Pegged:Yes-No Partly Claim retained: yes /No

Stream length: 0.5km Drainage area:0.5 km²

Original sample point(96 ppb Au) resampled:YesNo

Follow up team: AK/CR Duration:1.0 days

Nos.of follow up samples: TE 8032 - TE 8035

Description of drainage system:

The stream emerges from a seepage in a boulderfield, some 800 m west of the lake. The uppermost slope is moderate with forrest. Towards the lake the slope angle declines and the overburden becomes boggy. Overburden coverage is persistent throughout the drainage system, and clay was observed in parts of the stream bed.

Regional Geology:

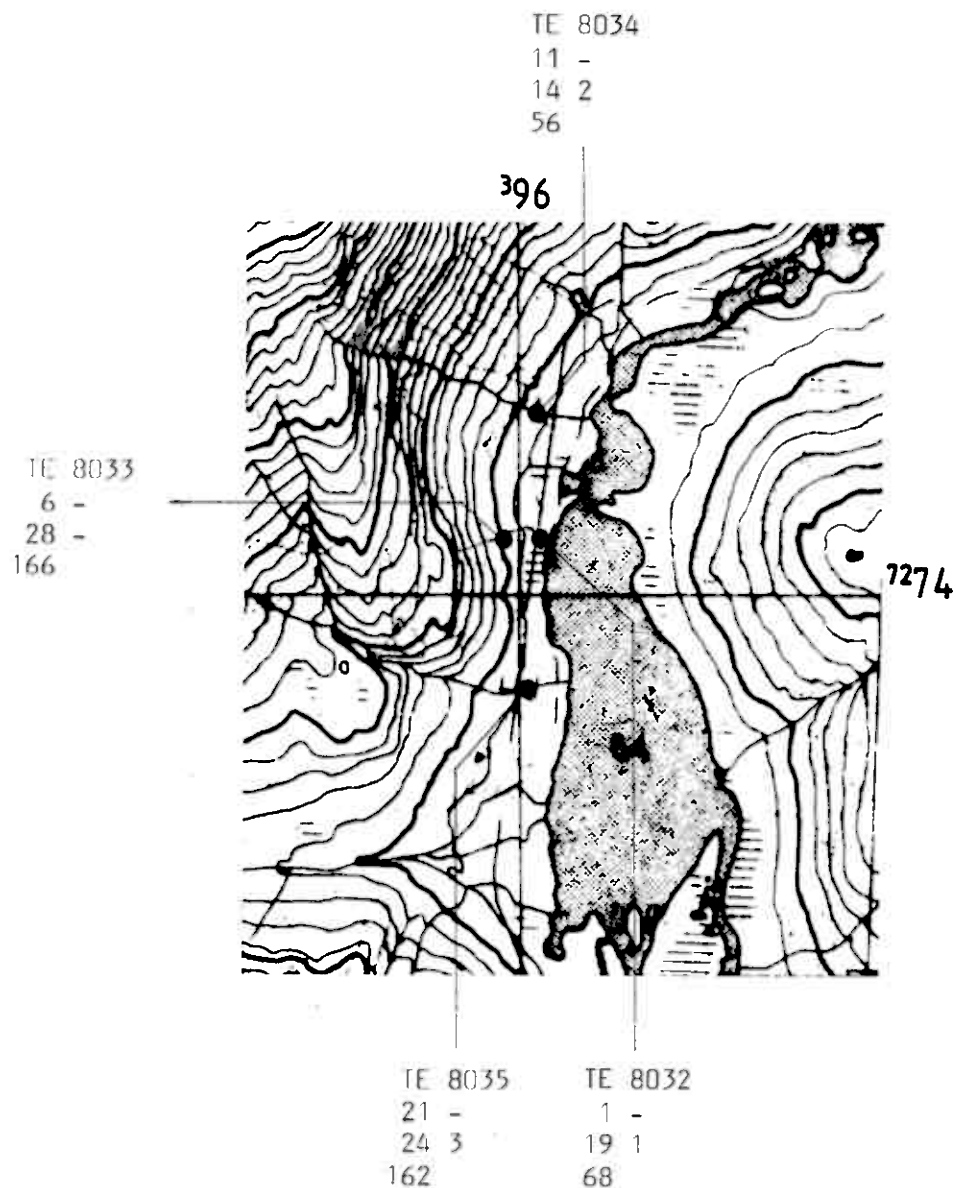
No outcrops were seen along the stream. Boulders consist of granodiorite (partly with weak stilbite alteration) and mica schist. Looking from the helicopter it was evident that the main valley was built up from the metasediments whereas towards west and at higher altitudes the granodiorite predominates.

Comments:

No gold anomalies detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 29 RUBBEN

Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Nedre Kvanlivatn No: 23 Size: 4.5 km²

Claim location: Map sheet 1826 III Vevelstad

Air Photo F 012, 013, 014

Okø Kart DK 180 III

Pegged: Yes-No-Partly Claim retained: yes/ No

Stream length 7.0km/ Drainage area: 8.0 km²

Original sample point (199 ppb Au) resampled: Yes No

Follow up team: AS/BS Duration: 2.0 days

Nos. of follow up samples SF 3026 - SF 3046

BF 3001 - SF 3017

Description of drainage system:

The drainage system comprises a main stream with a general east-west direction. Four tributaries to the north of the main stream with an orientation north-south were sampled. To the south of the main stream a stream system (A) parallel to the main stream was sampled. The lower (i.e. western) 1km of the main stream and the two tributaries in the western part (B+C) run in creeks. Often very narrow with rapids and small water falls. The overburden is local and thin. Most of the area is barren rock with sparse vegetation at higher altitudes. The creeks are often infilled with overgrown boulders. Between 1-2 km upstream from the coast the main stream and tributary system A runs in flat area. Here the main stream is strongly meandering and in places consists of a braided stream system. Tributary system A passes through a boggy area in the western part and drains a small lake further to the west. 3 small streams run into the small lake from the south and east. The tributary system drains the eastern slope of Hogfield.

The difference in drainage pattern between the western and eastern part of the sampled area, is mainly governed by the difference in lithology in the two parts. The rock type being porphyrite granodiorite in the western part and metasediments (mainly mica-schist) in the eastern part. The N-S orientation of the tributaries B and C is governed by major N-S striking fracture zones.

Geology:

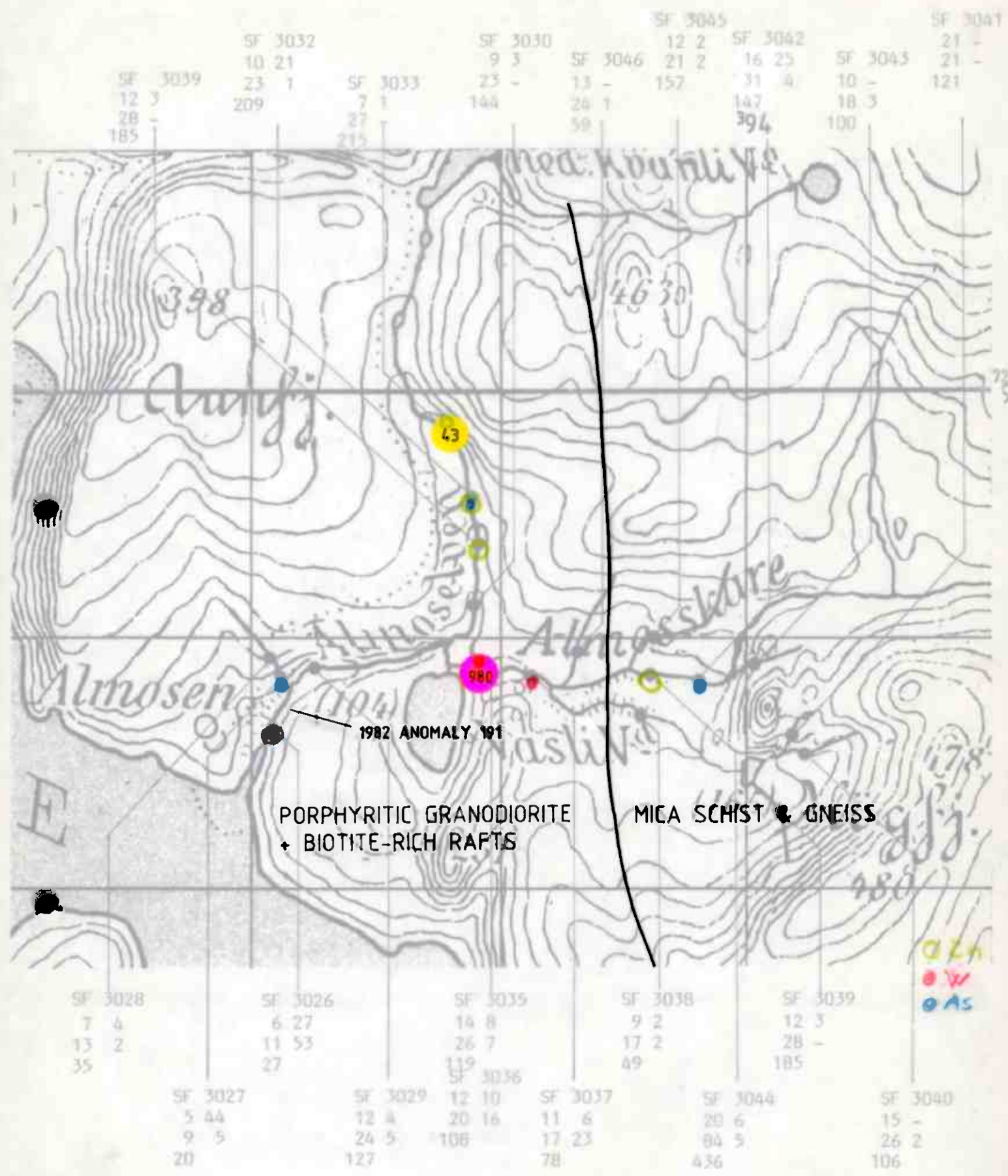
Strong alteration of the porphyritic granodiorite occurs in the western part of the area, in 0.1 to 10 m broad NW-SE and N-S trending zones. This consists of chloritization, sericitization and epidotization and the introduction of K-feldspar and quartz. Thin jasperoidal silica and stilbite occurs as veinlets. No sulphides were observed (Rock samples SF 3003-3008).

Comments:

Two anomalies detected 1 (very) high range =980 ppb, one medium-range).

Recommendations:

Low-priority area (geology/lithogeochemistry).



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 23 KVANLIVATN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Hoiholm No61 Size: 1.25 km²

Claim location: Map sheet 1826 III Vævelstad

 : Air Photo 5575 G 010

 : Oko Kart DH 178 I

Bagged: Yes-No---Partly Claim retained: Yes No

Stream length 1.5km Drainage area: 1.0 km²

Original sample points (43 ppb Au) resampled: Yes-No

Follow up team: CR/AK Duration: 1.0 day

No. of follow up samples : HH 8001 - HH 8006

Description of drainage system:

The system has its sources in a lake and on well exposed slopes, flowing through talus and bedrock to a plateau, thence again over bedrock to another talus field before draining into a bog.

Geology:

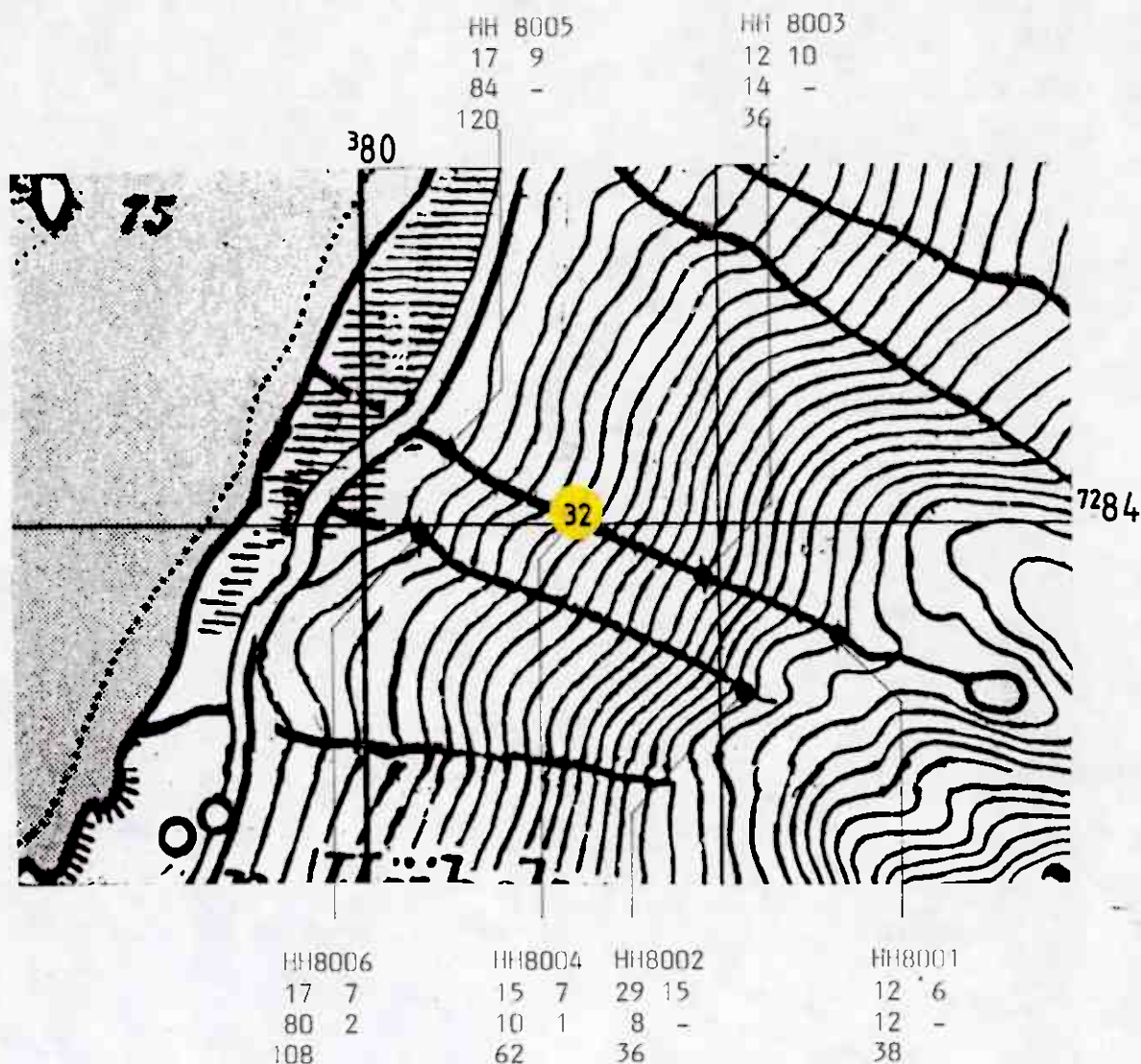
In the sampled area two rock types alternate: a banded calc-silicate schist and an intrusive porphyritic granodiorite. The granodiorite seems to be unfoliated with evenly distributed phenocrysts of up to 3x7 cm. The schist is very fine grained and varying in colour (creme, greenish, reddish, grey and brown). In the contact zones between the two rock types, sulfides have been recognized (pyrite, pyrrhotite)

Comments:

One medium range gold anomaly, but overall high arsenic values. Relatively few samples collected so far.

Recommendations:

A low priority follow up target, the source of the high arsenic anomalies, known as the best pathfinder for gold in the district, should be investigated. Care should be taken to distinguish the petrography of the variably coloured metasediments.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 61 HOIHOLM
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Kilviken No: 22 Size:0.5 km²

Claim location:Map sheet 1826 III Vevelstad

:Air Photo F 011,012,013

:Okø Kart 'DJ 179 I,II

Pegged: Yes No-Partly Claim retained: yes/ No

Stream length 0.05km/ Drainage area:0.02 km²

Original sample points(8/87ppb Au) resampled:Yes/No

Follow up team: AS/BS Duration:0.5 days

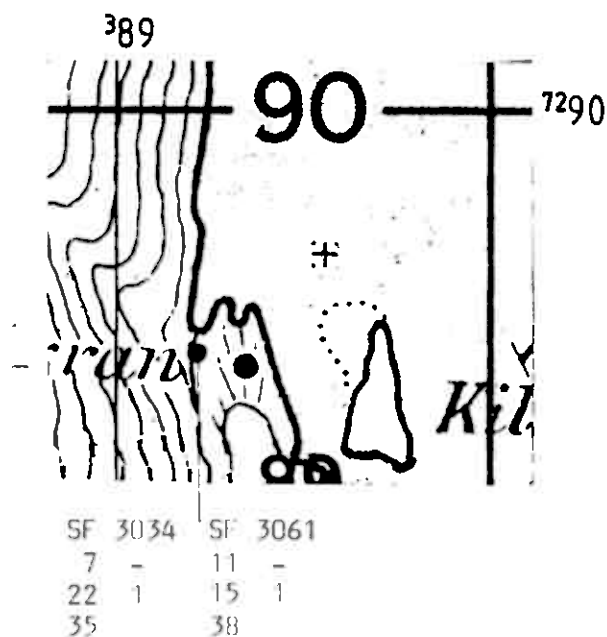
Nos.of follow up samples SF 3034 & SF 3061

Description of drainage system:

The original sample (i.e. no. 160028,(1983)) is taken in a very small stream (seepage), which may be followed for approx. 100m inland. The sediment in the stream consists mainly of light-grey clay. The drainage area is approx. 100x200m in the immediate vicinity of the stream.

Geology:

The area in the immediate vicinity of the stream (i.e. within 50-100 m of the stream) consists of marble interbanded with dm scale silica, sulphide (pyrrh.,pyr)rich bands. The marble is enclosed by porphyritic granodiorite. To the west the contact is clearly tectonic with strong foliation of the marble parallel to the contact between granodiorite and marble (170°-180°/80°E). No development of skarn minerals. To the east the contact is clearly intrusive, with development of an up to 5m broad skarn mineral rich zone. Coarse-grained stilpnomelane, vesuvianite and not identified green mineral, observed in dm broad folded bands in the marble. The silica rich bands are most numerous in the eastern part of the marble (i.e. towards the skarn contact). Sulphides in the silica rich bands are pyrrhotite and small amounts of pyrite. Both minerals are found as small (<1mm) disseminated grains and as larger (up to 0.5x1cm) aggregates. The silica rich bands can be followed for up to several tens of meters. A rock chip sample (0300SF3001) has been taken in the most sulfide rich part of the silicate rich bands, 0-5m from the eastern contact between the marble and the porphyritic granodiorite. The skarn contact is intersected by dm thick fine to medium-grained granitic dykes, which are undeformed.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 22 KILVIKEN
 Scale 1:20.000

Comments:

No Au anomalies detected.

Recommendations:

None.

STORMARKEN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Remfjeldet No 27 Size: 1.0 km²

Claim location: Map sheet 1826 II Eitersa

 : Air Photo 5575 G 015

 : Oko Kart DK 178 IV, 177 III

Pegged: Yes No Permy Claim retained: Yes No

Stream length 0.5km Drainage area: 2.0 km²

Original sample point (90 ppb Au) resampled: Yes-No

Follow up team: AS/BS Duration: 0.5 day

Nos. of follow up sample : RM 3001 - RM 3002

Description of drainage system:

Stream may be followed approx. 600m WSW of small lake. Lower part adjacent to lake runs in flat boggy terrain, upper part in narrow gorge infilled with large overgrown boulders, under which the stream disappears.

Geology:

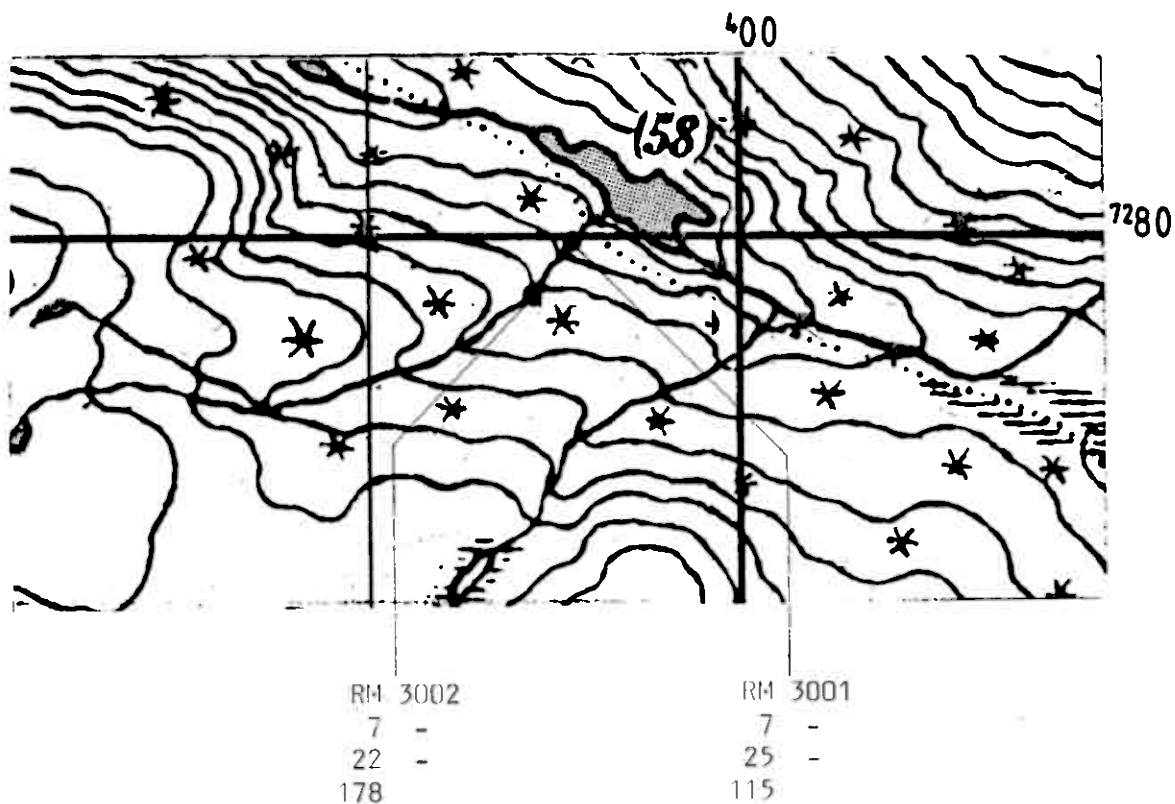
Area is dominated by a massive, homogeneous, medium-grained granodiorite, crosscut by pegmatite veins. Very few boulders with stilbite on joint surfaces were observed.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 27 REMFJELDET
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: N.Vesterelven No:28 Size:1.5 km²

Claim location:Map sheet 1826 II Eitera

Air Photo /

Oko Kart DK 175 II

Pegged:Yes No-Partly Claim retained: yes /No

Stream length: 0.8km Drainage area:0.3 km²

Original sample point(9 ppb Au) resampled:YesNo

Follow up team: OK/GT Duration:2.0 days

Nos.of follow up samples: TE 4015 - TE 4023

Description of drainage system:

The stream,with one tributary in the lower part,drains the eastern slope of Laksmarkelvdalen.Over the lower 300 m the stream runs with moderate slope angles through forrest,partly also on overgrown talus.At higher altitudes the slope angle becomes very steep and the stream passes through a gorge into more moderate slopes again.

Geology:

The area is dominated by granodiorite.In addition mica-schists,marbles and greenish metasediments(skarn)were found.The granodiorite is greatly affected by stilbite alteration along north-south trending fissures.Rock sample 0300 TE 4016 was taken from this alteration.Upslope of stream sed.samples TE 4022/23 and TE 4021 a sulfide bearing biotite schist was detected.These horizons were between 0.4 and 4.0 meter wide.

Comments:

No gold anomalies detected.

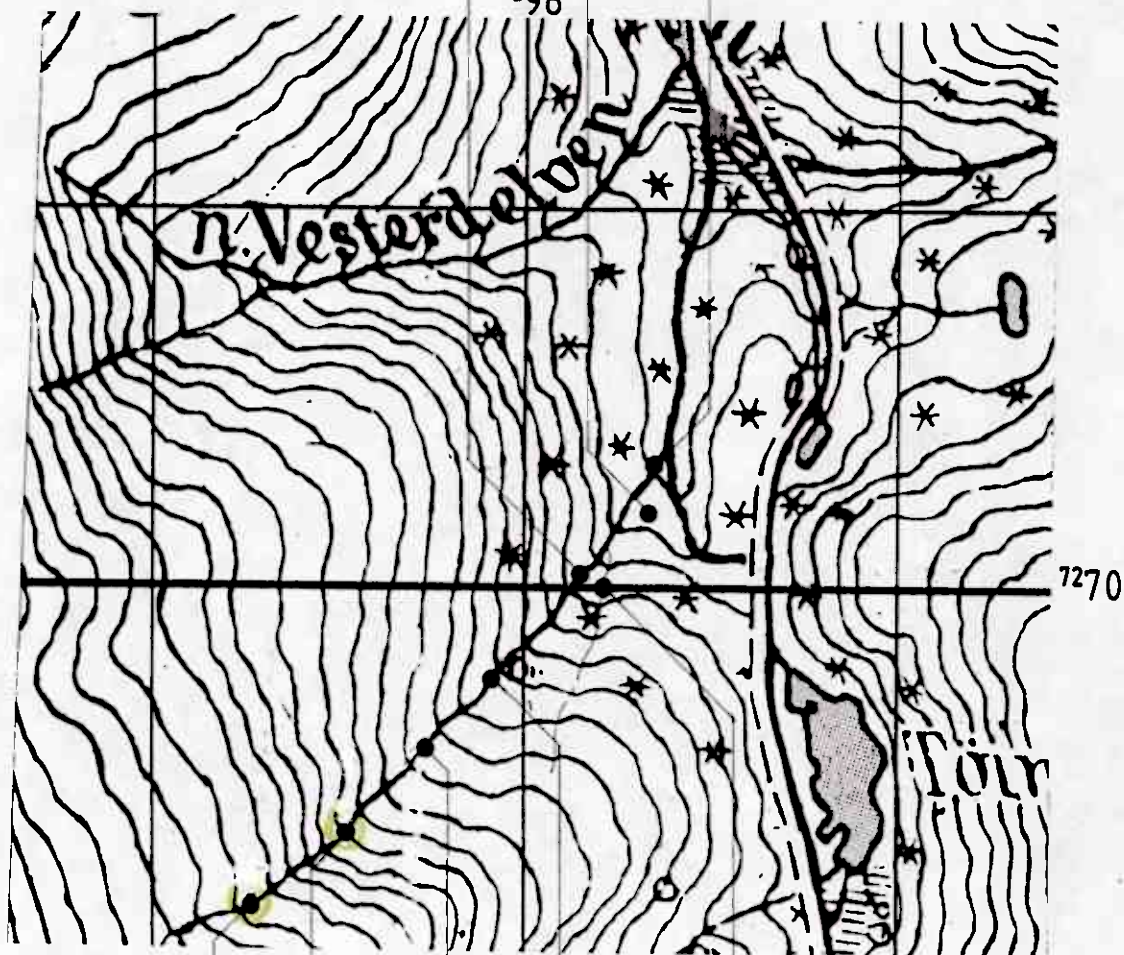
Recommendations for further follow up:

None.

TE 4022	TE 4023
11 7	20 -
22 3	29 3
97	126

TE 4019	TE 4015
5 1	12 -
22 2	22 3
131	90

396



TE 4018
18 -
82 3
310

TE 4016
19 -
35 3
128

TE 4020
4 -
16 4
78

TE 4017
10 -
64 2
242

TE 4021
15 -
27 3
122

OZn

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 28 N. VESTERELVEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Rundtjernet No: 30 Size: 0.75 km²

Claim location: Map sheet 1826 II Eitera

:Air Photo /

:Oko KartDK 175 IV

Pegged: Yes No-Partly Claim retained: yes /No

Stream length: 2.8km Drainage area: 2.0 km²

Original sample point(40 ppb Au) resampled: Yes/No

Follow up team: OK/GT Duration: 1.0 day

Nos. of follow up samples: TE 4001 - TE 4009

Description of drainage system:

The stream system drains the western slopes of the Osterdalseffjeldet. The area is sparsely vegetated, streams running on bedrock carry only little active sediment.

Geology:

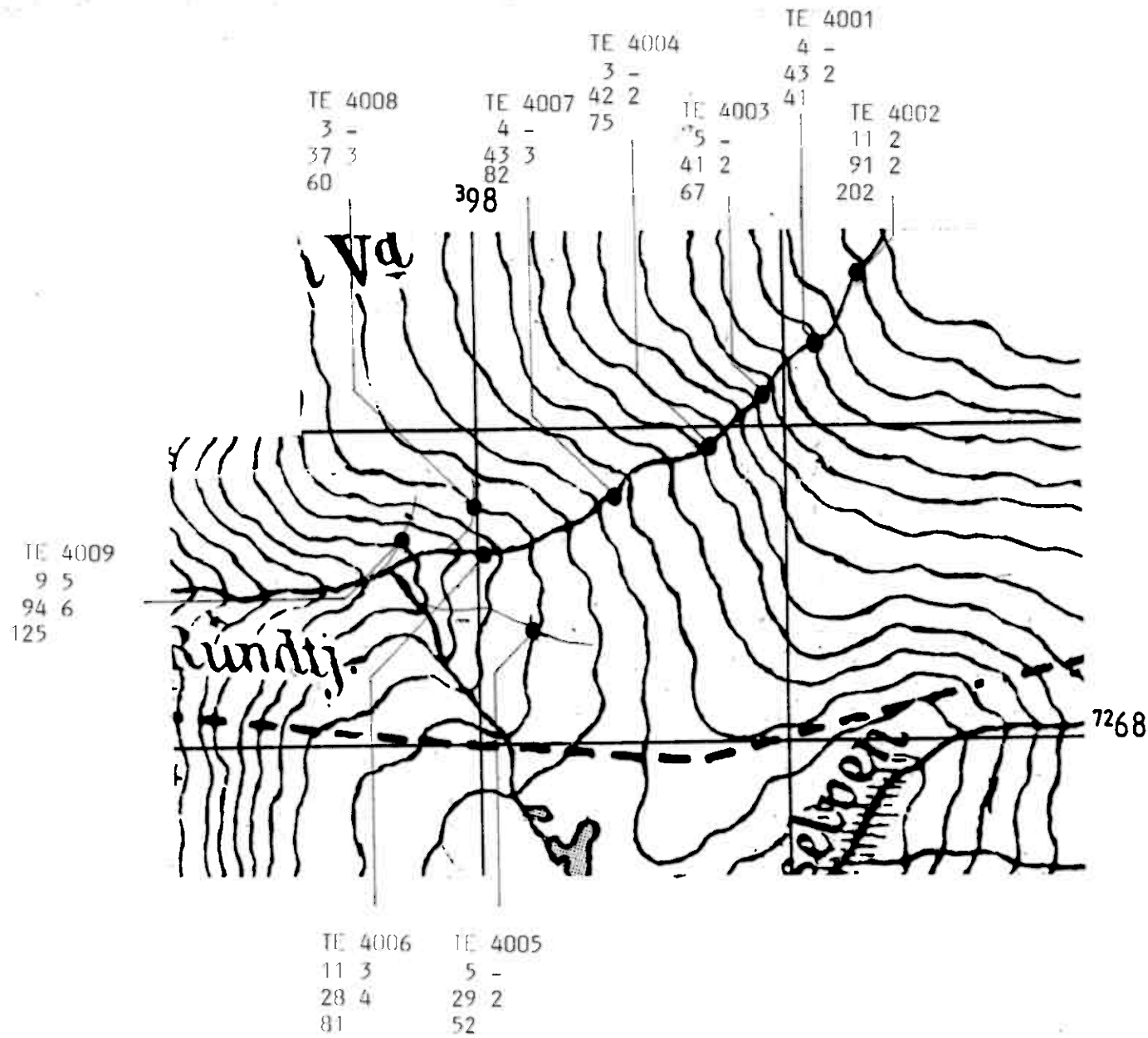
The area is dominated by porphyritic granodiorite with intense acid veining. Locally inclusions of a basic rock type, marbles, biotite schists and greenish metasediments (skarns) were found. Metasediments and skarns are concentrated around sample points TE 4006 and TE 4008.

Comments:

No gold anomalies detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 30 RUNDJTJERN
 Scale 1:20.000

ANOMALY FOLLOW UP

HELGELAND PROJECT 1983

Claim Name: Andalsvagen 'A' No 54 Size: 1.0 km²

Claim location: Map sheet 1826 III Vevelstad

:Aix Photo H 009,010,011

:Oko Kart DH 176 I, 177 III, IV

Pegged: Yes No Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 2.0 km²

Original sample point: 60ppb Au resampled: Yes No

Follow up team: CR/AK Duration: 1.0 day

Nos. of follow up samples : AN 8004 - AN 8010

Description of drainage system:

Rises in a lake and flows via a steep-sided cleft to the valley bottom which is covered in alluvial overburden and densely vegetated.

Geology:

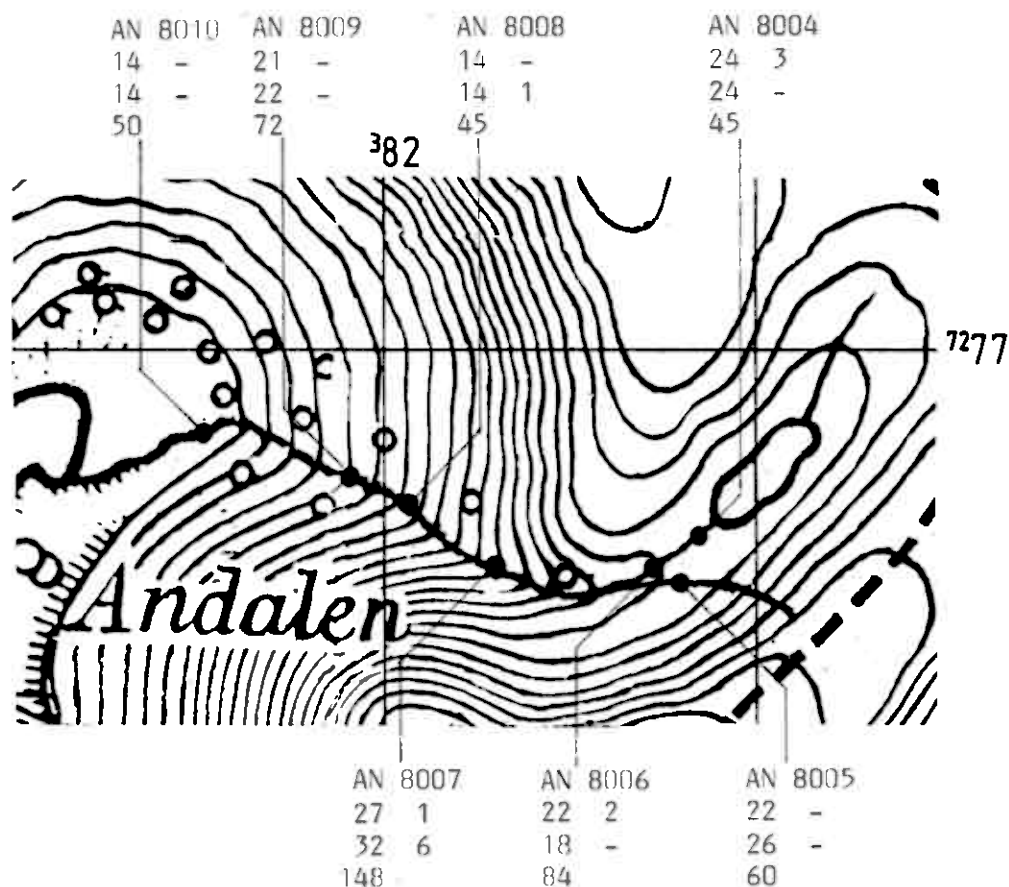
Headwater area consists of porphyritic diorite. Joints in the cleft zone of the stream are filled with stilbite. Pyrite-stilbite was also observed in a cleft of the uppermost tributary. The lower valley is talus covered.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name : 54 ANDALSVÅGEN A
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Andalsvagen 'B' No 55 Size: 1.0 km²

Claim location: Map sheet 1826 III Vevelstad

 : Air Photo H 010,011

 : Oko Kart DH 177 II,IV H 175 I

Pegged: Yes No Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 1.0 km²

Original sample point (341ppb Au) resampled: Yes No

Follow up team: CR/AX Duration: 1.0 day

Nos. of follow up samples : AN 8001 - AN 8003

Description of drainage system:

Source in a steep bare slope, with several waterfalls, the rest of the valley being covered by deep overburden, the stream being braided. Abundant stream sediment.

Geology:

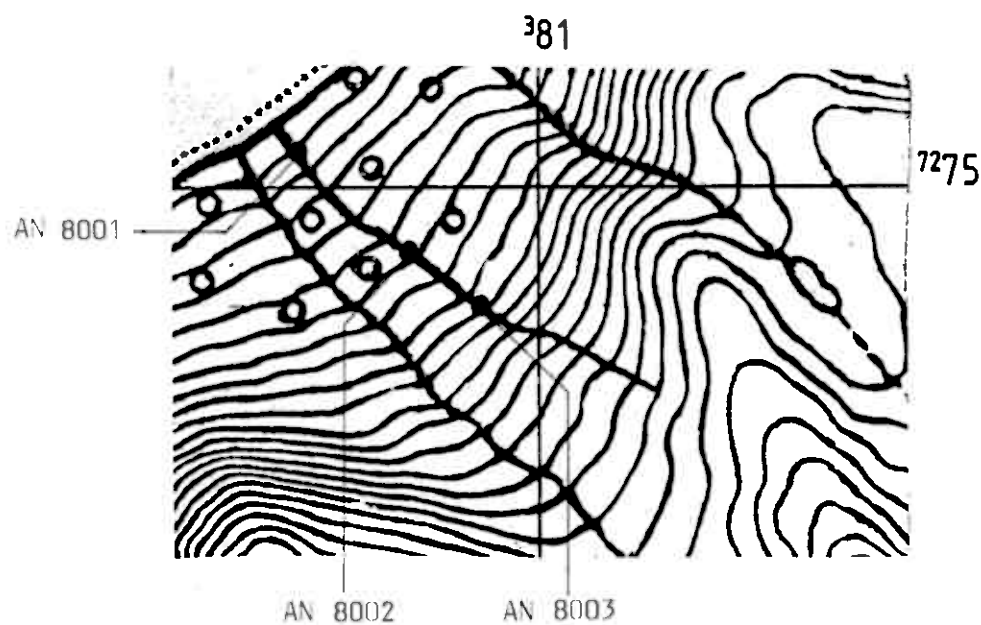
Porphyritic diorite in headwaters, lower valley having no exposure (diorite boulder field).

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 55 ANDALSVÅGEN B
Scale 1:20.000

WELFORD

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Vasbotnet No:148 Size: 0.75 km²

Claim location: Map sheet 1825 IV Velfjord

!Air Photo

!Oko Kart DF 172II; G 172 I

Flagged: Yes No Partly Claim retained: Yes No

Stream length 1.25km Drainage area: 2.0 km²

Original sample point (21,18ppb Au) resampled: Yes No

Follow up team: AS/KA Duration: 0.5day

Nos. of follow up sample : BK 3035 - SK 3038

Description of drainage system:

Stream drains bog-filled flat bottomed valley, thence descending over a steep scarp to marsh and to Vasbotnet.

Geology:

Dominated by muscovite-biotite schist with a blue-green tint (?andalusite or kyanite bearing). Quartz occurs as veins, and lenses both concordant and discordant to schistosity. No sulphides recorded.

Comments:

One high-range Au anomaly detected.

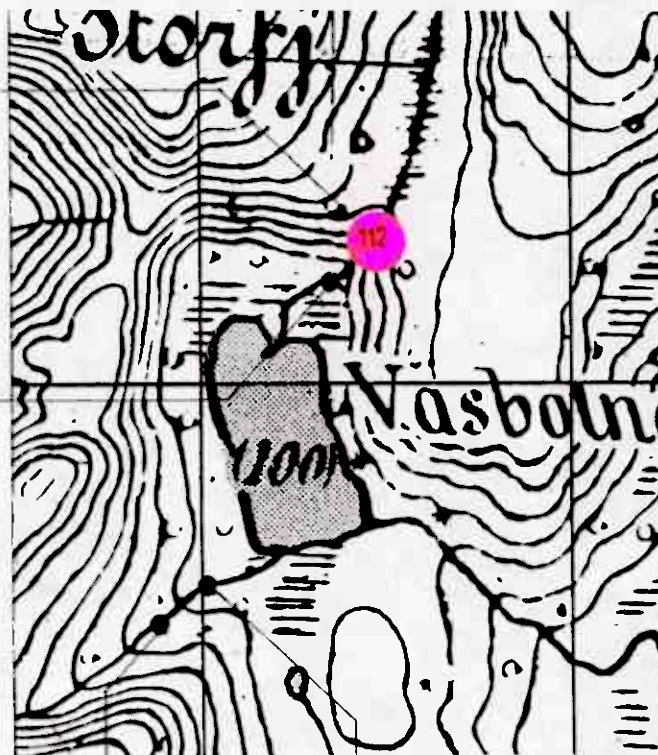
Recommendations:

None.

372

SK 3036
12 -
8 2
34

SK 3035
16 3
16 -
46



7256

SK 3038
8 1
12 -
50

SK 3037
22 2
18 -
76

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 148 WASBOTNET
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Raakhallen No: 43 Size: 1.25 km²

Claim location: Map sheet 1825 IV Velfjord

 : Air Photo

 : Oko Kart

Regrated: ~~Yes~~-No Partly Claim retained: yes /No

Stream length: 2.5km Drainage area: 2.0km²

Original sample point (8 ppb Au) resampled: ~~Yes~~No

Follow up team: CR/AK Duration: 1.0 days

Nos. of follow up samples: TE 9001 - TE 9007

Description of drainage system:

The source of the stream lies on bedrock. It continues over a plateau and descends via a cleft and a boulder field into an area with overburden and dense vegetation.

Geology:

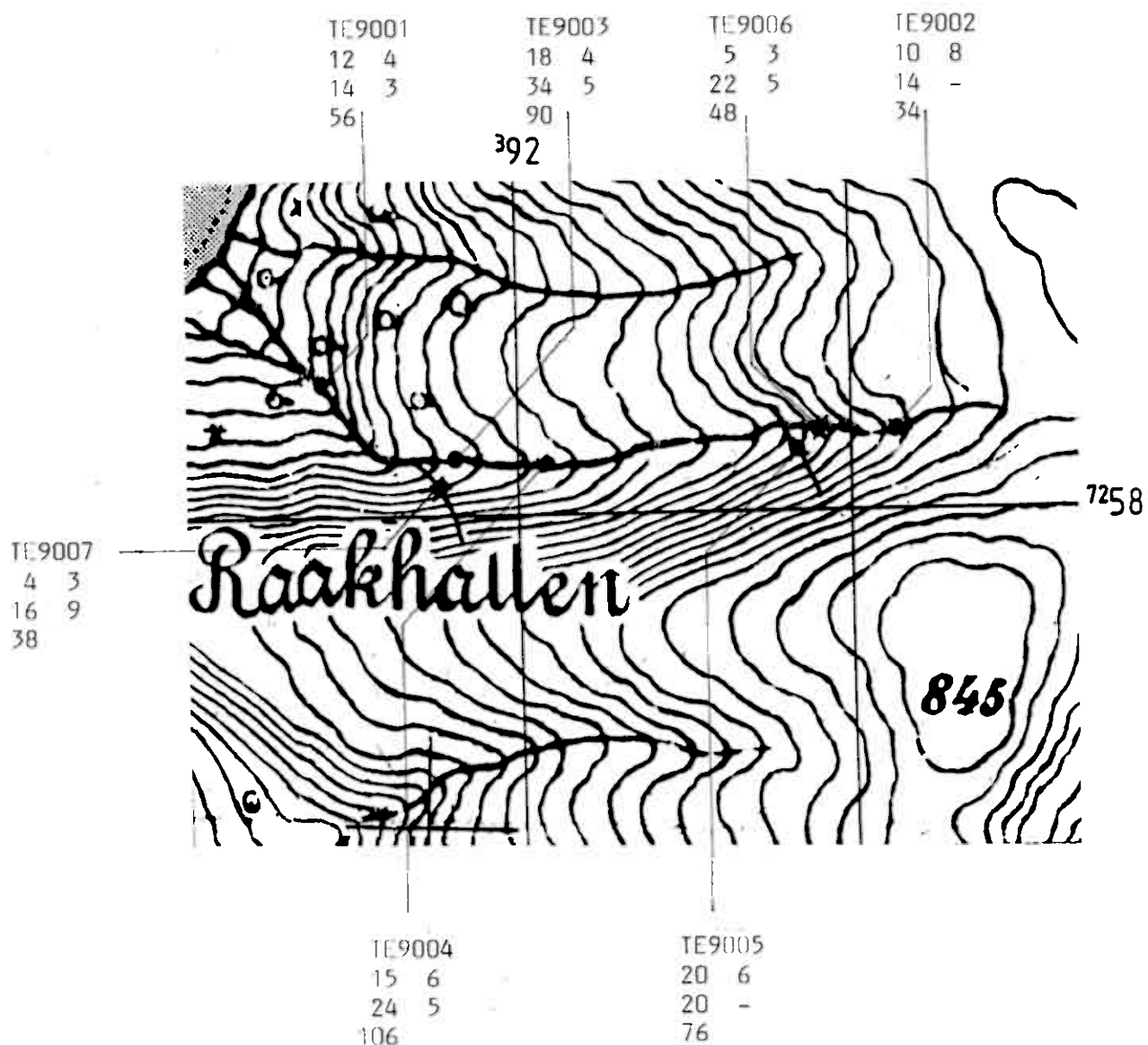
Main lithology is a leucocratic, foliated gneiss, becoming increasingly more migmatitic towards east. At sample point 0333TE9006 mica schist was observed. Mineralization was not found.

Comments:

No gold anomaly detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 43 RAAKHALEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Bordvik No: 57 Size: 1.0 km²

Claim location: Map sheet 1825 IV Velfjord

:Air Photo

:Okø Kart DH 172 I, II

Pegged: Yes No Percy Claim retained: Yes No

Stream length 1.0km Drainage area: 1.0km²

Original sample point (114ppb Au) resampled: Yes No

Follow up team: AS Duration: 0.5day

Nos. of follow-up samples : SK 3001 - SK 3003

Description of drainage system:

The drainage system consists of one stream, running through flat pastures, fields and boggy terrain in the lower part. To the west of this flat area the terrain rises very steeply and the stream flows down cliffs with small waterfalls and rapids. The original sample (190047) and this years duplicate samples (SK 3002/3) have been taken immediately below the very steep slope.

Geology:

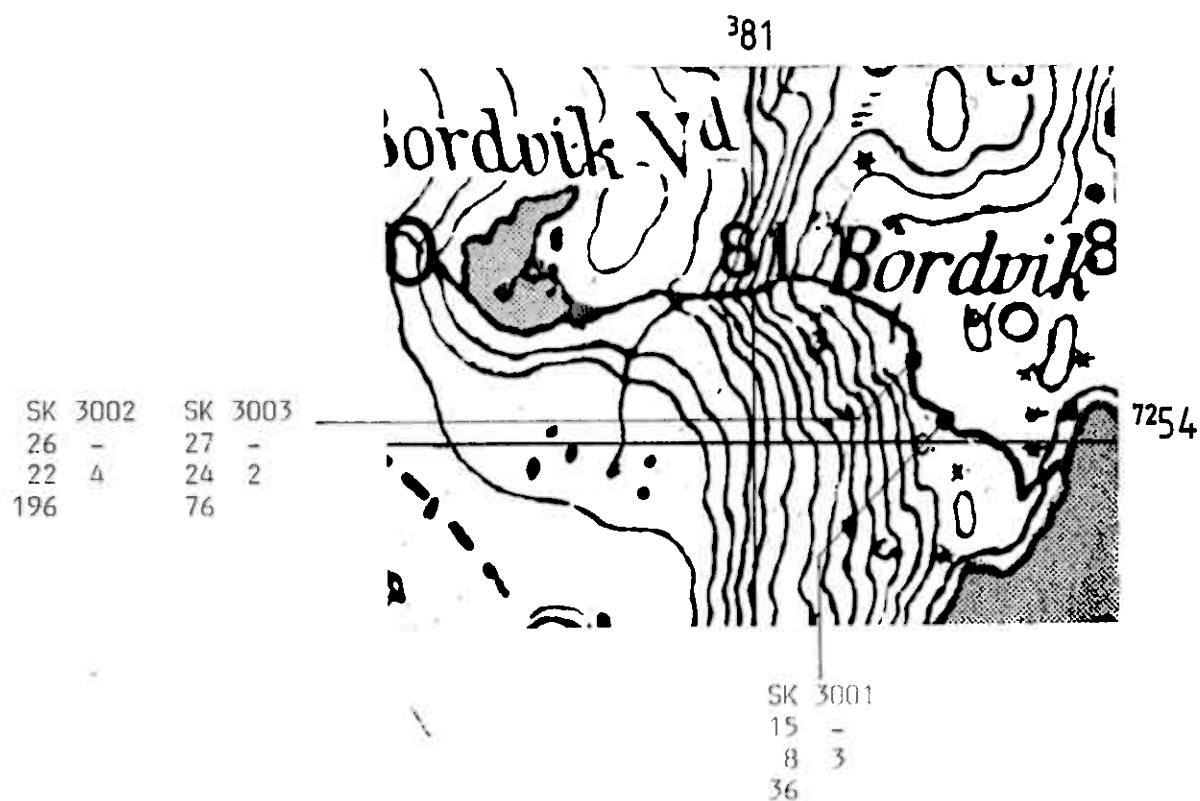
Feldspar-quartz-biotite-(hornblend)-gneiss, granodiorite and marble were observed in the area.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 57 BORDVIK
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Jellemoen No: 14 Size: 2.0 km²

Claim location: Map sheet 1825 IV Velfjord

Air Photo

Okø Kart DG 172 IV

Pegged: Yes No Partly Claim retained: Yes No

Stream length 1.5km Drainage area: 2.5 km²

Original sample point (29ppb Au) resampled: Yes No

Follow up team: AS/KA Duration: 1.0 day

Nos. of follow-up sample : SK 3020 - SK 3026

Description of drainage system:

Source a karst hole at geological contact, flowing over partly overgrown, steep boulder field to wide flat, marshy valley bottom with thick overburden.

Geology:

Headwaters in marble intruded by diorite. Boulder field of biotite gneiss and diorite, the former commonly being altered (sericitization, argillization, silicification with pyrite + pyrrhotite) near contacts with the diorite. Similar alteration observed in cliff faces (to 20 x 50m, trending 180°).

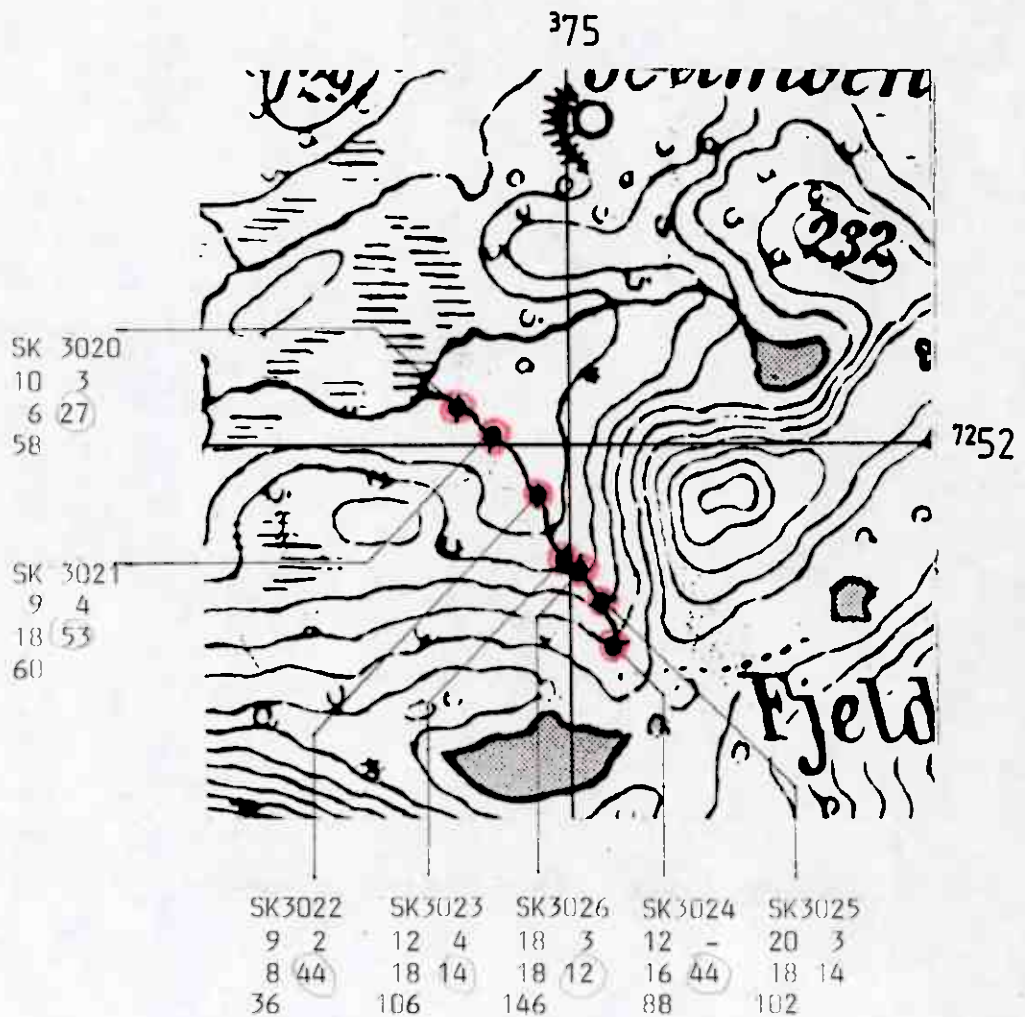
Comments:

No Au anomalies detected but high W and ubiquitous As.

Recommendations:

Detailed geology/lithogeochemistry.

OW



gratunel Ham

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 14 JELLEMOEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Grondalen No 45 Size: 2.0 km²

Claim location: Map sheet 1825 IV Velfjord

Air Photo

Okø Kart DH 173 III

Pegged: Yes-No Partly Claim retained: Yes No

Stream length 3.0km Drainage area: 3.0km²

Original sample point (41ppb Au) resampled: Yes No

Follow up team: AS/TO/KA Duration: 1.0day

Nos. of follow-up samples : SK 3004 - SK 3014

Description of drainage system:

Rises in steep slopes and boulder screens, thence flowing via three tributaries through boggy areas with moderate overburden. These join to flow through pastureland.

Geology:

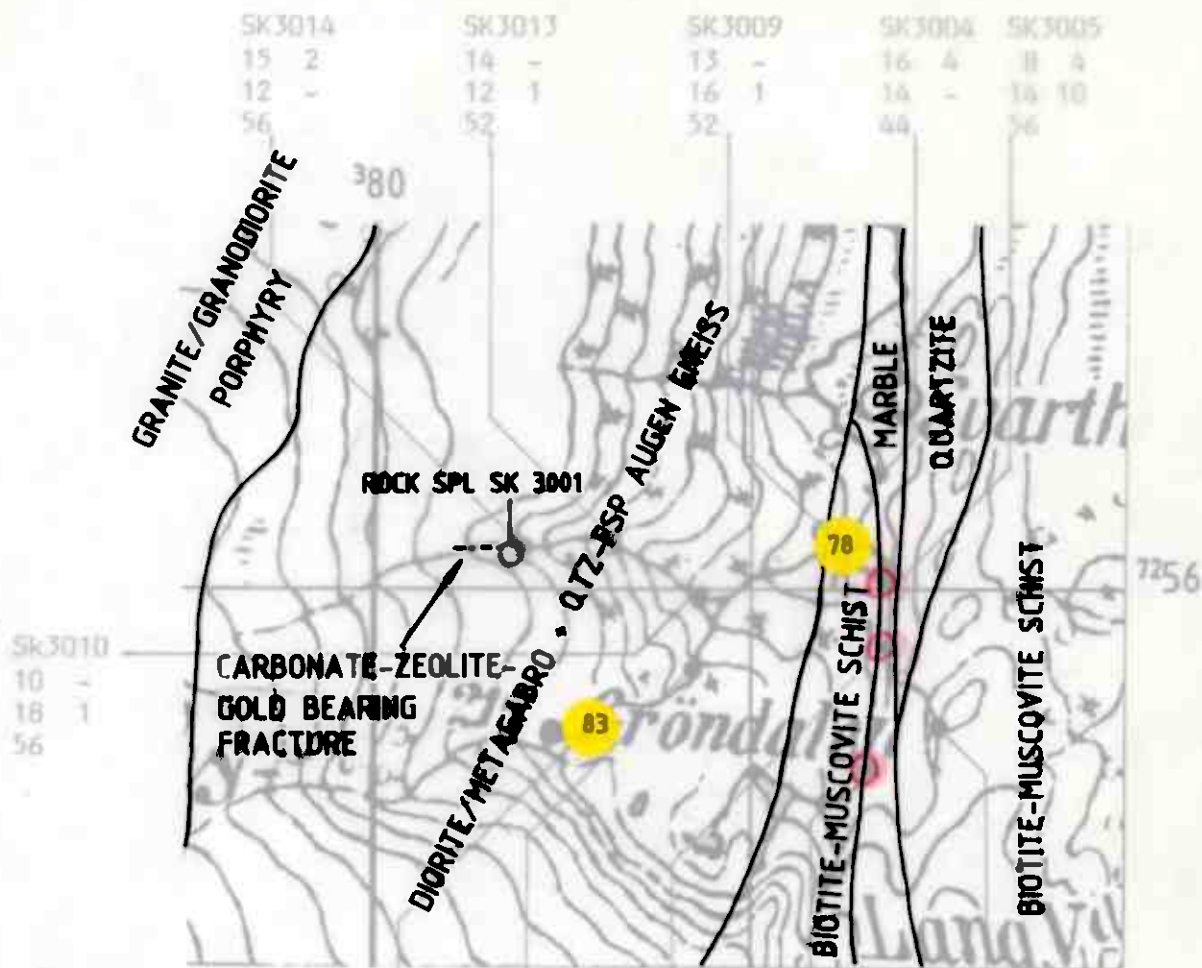
Biotite-muscovite schist containing a marble-quartzite-amphibolite package to the east. The majority of the catchment area is composed of a feldspar-quartz-biotite-(hornblend)-gneiss and diorite/metagabbro sequence which is intruded in the far west by a porphyritic granite/granodiorite (?related to the Skomvik granite). A quartz-zeolite-pyrrhotite-pyrite-filled fracture zone trending 090° (exposed over approx. 0.3x5.0m) was recorded in interbedded diorite porphyry and quartz-feldspar augen gneiss above sediment samples Sk 3013, 3014. (Rock sample SK 3001).

Comments:

Two medium-range Au anomalies detected. Rock sample SK 3001 returned with 2.2 g/t Au.

Recommendations:

A relatively high-priority target. Detailed geology/lithogeochemistry and possible overburden sampling.



SK3012	SK3011	SK3006	SK3008	SK3007
18 5	12 -	8 7	7 -	7 4
10 8	18 4	20 16	20 10	20 -
64	62	84	42	118

stratigraphical
Sharn ass. ?
low temp
OW
alt. in crosscutting
fracture zones ?

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 45 GRØNDALEN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kvaerngroen No:150 Size: 1.0 km²

Claim location: Map sheet 1825 IV Velfjord

 : Air Photo

 : Oko Kart DG 173 I,II,III

Pegged: Yes No Partly Claim retained: Yes No

Stream length 2.5km Drainage area: 3.5km²

Original sample point (5 pub Au) resampled: Yes No

Follow up team: AS/KA Duration: 1.0day

No. of follow-up sample : SK 3027 - SK 3034

Description of drainage system:

Source in a cave, thence flowing through flat marshland bound to the S. East by a steep cliff (1 tributary), thence over a scarp face via a waterfall. The stream then flows through a boulder scree onto land with common potential contaminants (denns, tractor traces, a quarry).

Geology:

Biotite-muscovite schist/gneiss with quartz intercalations and milky veins which locally carry pyrrhotite occur in the scarp face. Numerous boulders of marble were recorded, but their source was not found. Boulders of tourmaline-bearing granite (Skomoviken type) were also recorded as well as porphyritic granodiorite.

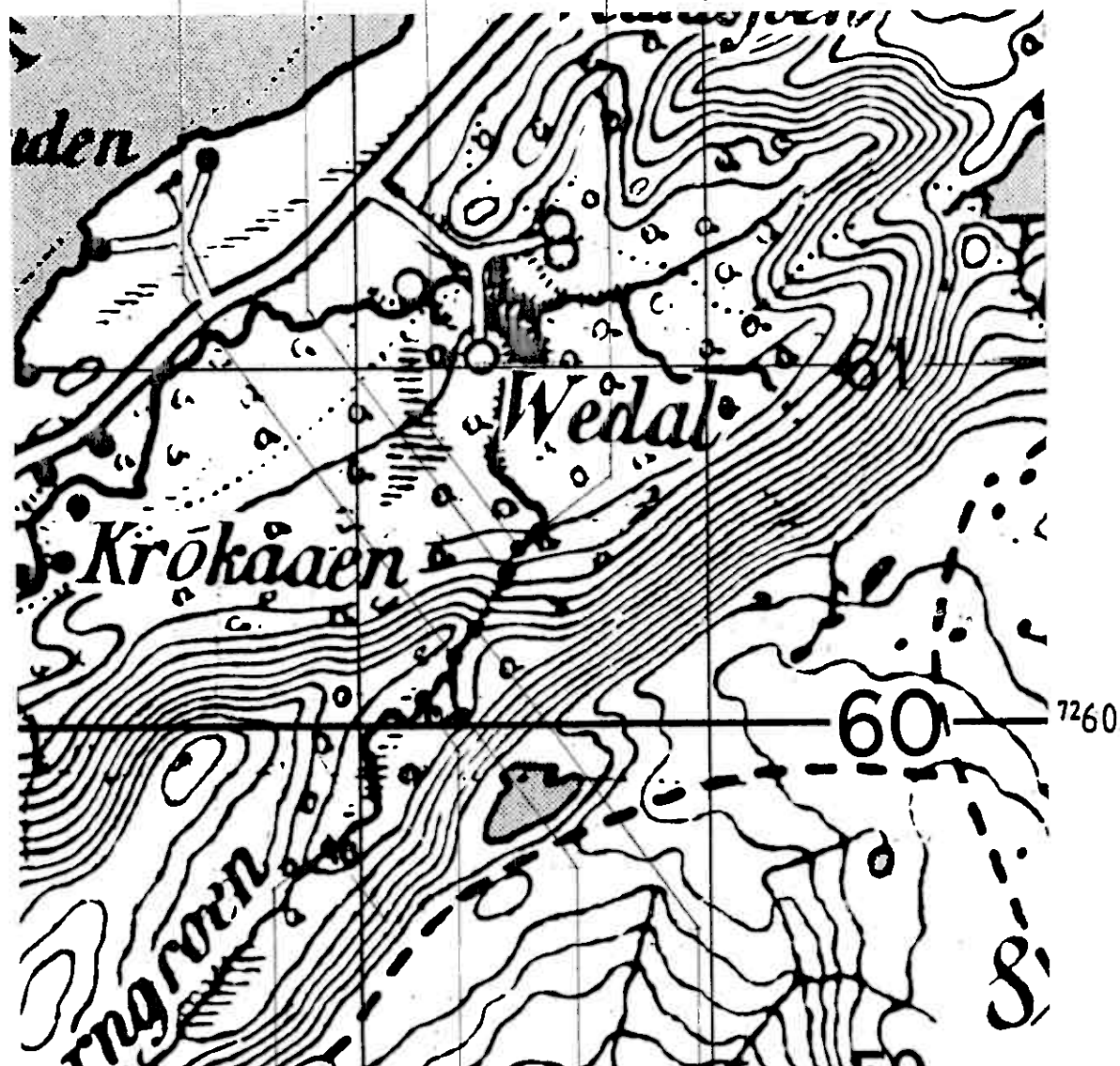
Comments:

No Au anomalies were detected.

Recommendations:

None.

SK3031	SK3029	SK3028	SK3027
32 15	20 6	27 4	22 4
38 4	8 -	8 1	16 -
150	110	82	74



SK3034	SK3033	SK3032	SK3030
27 9	14 2	7 2	8 1
16 5	16 5	10 3	10 2
66	76	40	50

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 150 KVAERNGROEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Hatten No:47 Size:1.5 km²

Claim location:Map sheet 1825 IV Velfjord

:Air Photo

:Okø Kart DK 170 I

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 3.0km Drainage area: 2.0km²

Original sample point (166ppb Au) resampled: Yes No

Follow up team: AS/BS Duration: 1.0day

Nos. of follow-up samples : NO 3008 - NO 3015

Description of drainage system:

Two branches of system - 1) rising in a steep slope with thin overburden, flowing steeply down on bedrock via numerous waterfalls to a broad N-S valley with moderate overburden/rounded boulder fields but little exposed bedrock 2) rising in a moderate slope with little exposure, flowing via small rapids to join 1) in the N-S valley.

Geology:

Headwaters in carbonate-rich conglomerate, underlain downstream by a banded calc-silicate sequence rich in evenly distributed fine-grained sulphides, with thin marble at the contact. Occurring structurally beneath are gabbro-granite clast conglomerates, with another thin marble at or near contact. The southern tributary and the N-S valley follow this contact.

Comments:

No confirmation of original Au anomaly. Claims kept as part of the interesting Sauvath-Sobergslien belt.

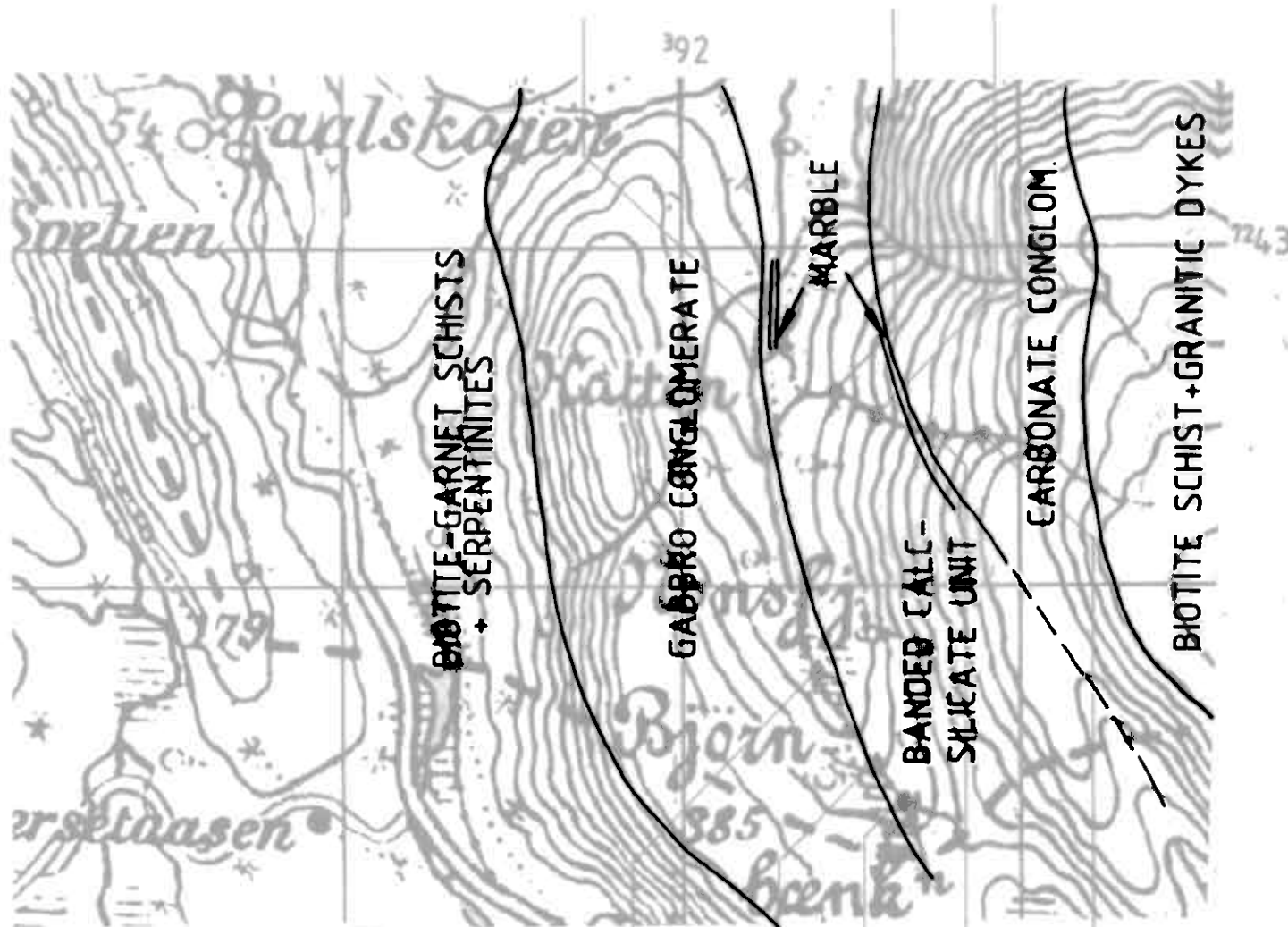
Recommendations:

No follow-up will be carried out in this claim area, but immediately on strike to the south with claim 49 Sørenskogvand if the pyrrhotite-arsenopyrite mineralizations discovered there are Au-bearing.

NO 3008
25 -
12 3
46

NO 3009
24 -
15 -
43

NO 3010
30 -
12 2
36



NO 3015	NO 3014	NO 3013	NO 3011	NO 3012
44 -	33 -	30 2	30 -	43 -
19 -	32 -	15 -	14 -	11 -
106	181	92	33	48

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 47 HATTEN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Skaret No: 15 Size: 1.0 km²

Claim location: Map sheet 1825 IV Velfjord

:Air Photo

:Okø Kart DH 172 III

Pegged: Yes-No-Partly Claim retained: Yes No

Stream length 0.75km Drainage area: 1.0km²

Original sample point (64ppb Au) resampled: Yes No

Follow up team: AS/TO/KA Duration: 1.0day

Nos. of follow-up sample : SK 3027 - SK 3034

Description of drainage system:

Source in flat bog and small lake, then flowing through a narrow boulder-filled gorge to the fjord.

Geology:

The main rock types in the area consist of gneiss (migmatite and marbles. Outcrops of marble were predominantly found along the bottom of the WNE-SSE trending gorge in which the stream runs. The marble here was coarse-grained (1-3mm) often with disseminated flakes of graphite, and disseminated eu-subhedral pyrite.

Comments:

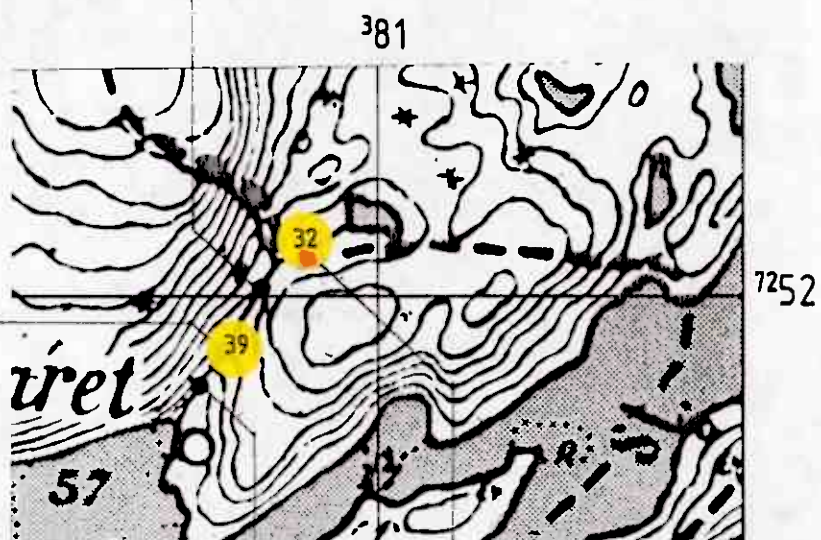
Two medium-range Au anomalies detected, with locally high As.

Recommendations:

To be followed-up with the 45 Grondalen claim.

SK 3017 / 3018
15 - 15 3
14 1 12 -
88 90

SK 3016
13 -
10 2
58



SK 3015
15 2
12 1
76

SK 3019
17 62
12 1
84

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 15 SKARET
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Skomoviken B No: 44 Size: 0.5 km²

Claim location: Map sheet 1825 IV Velfjord

Air Photo

Okø Kart DH 173 I

Pegged: Yes No Partly Claim retained: Yes No

Stream length 0.5km Drainage area: 0.5km²

Original sample point 2 ppb Au) resampled: Yes No

Follow up team: AS/KA Duration: (2 hours) day

Nos. of follow-up sample :

Description of drainage system:

No follow-up samples taken due to lack of watercourses. Original anomaly a lakeshore sediment.

Geology:

Skomoviken granite, commonly rich in tourmaline both as clots to 1cm with quartz and in veinlets which trend towards forming breccias. At one locality, fine veining containing galena-sphalerite was recorded.

Comments:

Rock samples of sulphide mineralization and quartz-tourmaline rich zones did not yield Au anomalies. The area is kept however due to interest in the Grondalen-Skomoviken belt.

Recommendations:

Detailed geology/lithogeochemistry, taken with the Grondalen-Jellempen region.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Markafjell No: 48 Size: 0.5 km²

Claim location: Map sheet 1825 IV Velfjord

:Air Photo

:Okø Kart DJ 170 II

Flagged: Yes No---Partly Claim retained: Yes No

Stream length 0.75km Drainage area: 0.5km²

Original sample point (53ppb Au) resampled: Yes No

Follow up team: AS/BS Duration: 1 day

Nos. of follow-up samples: NO 3016 - NO 3021

Description of drainage system:

The drainage system consists of 1 stream running E-->W in the lower part, through flat partly boggy terrain, with only few outcrops. The upper part of the stream running N-->S, runs down a moderately steep slope. The lower part of the slope being covered by an overgrown boulder scree, with no outcrops of bedrock, and the upper part being covered by a thin to medium, boggy overburden.

Geology:

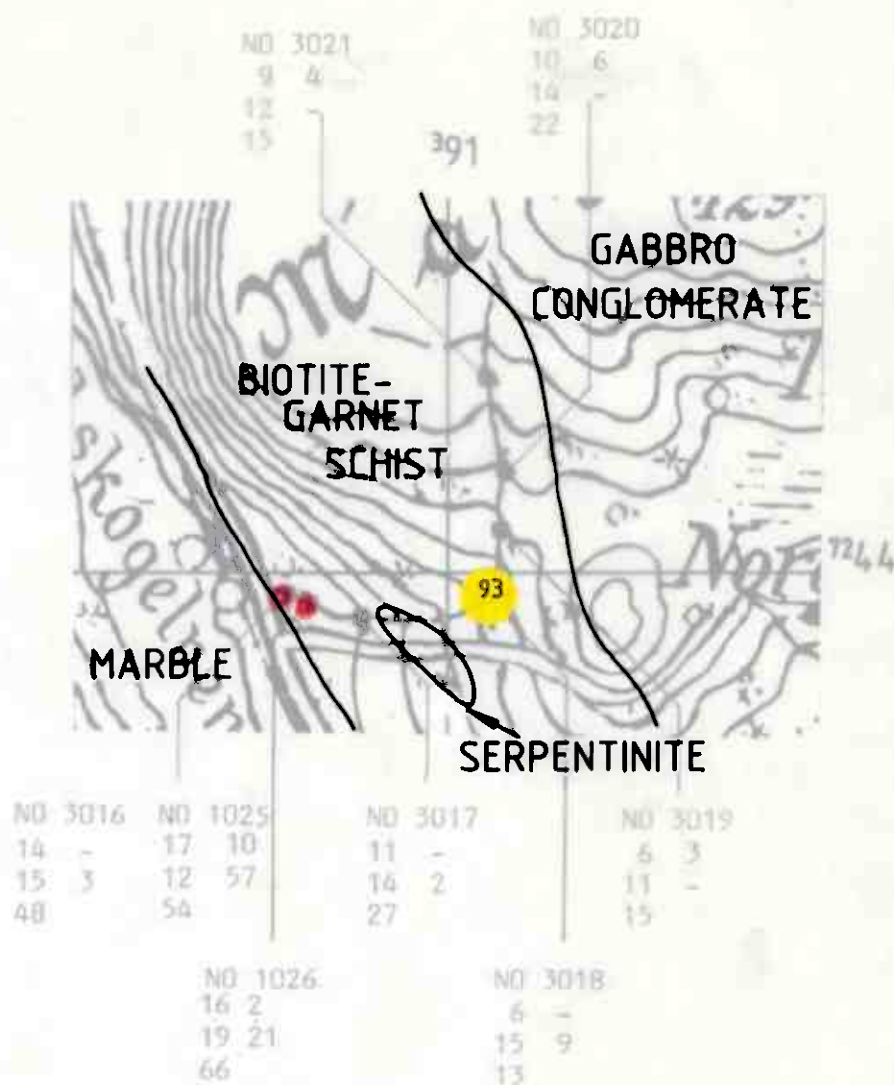
Headwaters in gabbro-clast conglomerate, underlain downstream by a banded clac-silicate sequence rich in well distributed fine-grained pyrite-pyrrhotite which is cut by diorite/gabbro dykes. Quartz veins containing pyrite-pyrrhotite and skarning were recorded. This sequence is underlain by a biotite-hornblend-garnet gneiss with abundant dislocated (sweat) quartz veining and minor zeolite-filled fractures. A serpentinite occurs at the base of this succession.

Comments:

One mid-range Au anomaly detected upstream of original anomaly point. Two pan samples were also taken which were not anomalous.<

Recommendations:

Claims retained as part of interest in Sausvatn-Sobergslien belt.



gratalsund skarn 2

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 48 MARKAFJELL
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Manslien No: 46 Size: 0.25 km²

Claim location: Map sheet 1825 IV Velfjord

 : Air Photo 6495-25.6-10

 : Oko Kart DK 171 III

Pegged: Yes No --- Partly Claim retained: Yes No

Stream length 0.25km Drainage area: 0.5km²

Original sample point (11ppb Au) resampled: Yes No

Follow up team: AS Duration: 0.5day

Nos. of follow-up samples: NO 3023

Description of drainage system:

Source in steep heavily wooded slope with abundant seepage with rapid flow down to flat farmland. Single sample taken at foot of this slope.

Geology:

Poor exposure, but area lies in probable strike extension of the S. Sausvatn carbonate conglomerate, here intruded by gabbro and amphibolite, which is underlain by the banded calc-silicate sequence.

Comments:

No verification of original Au anomaly. Somewhat high W.

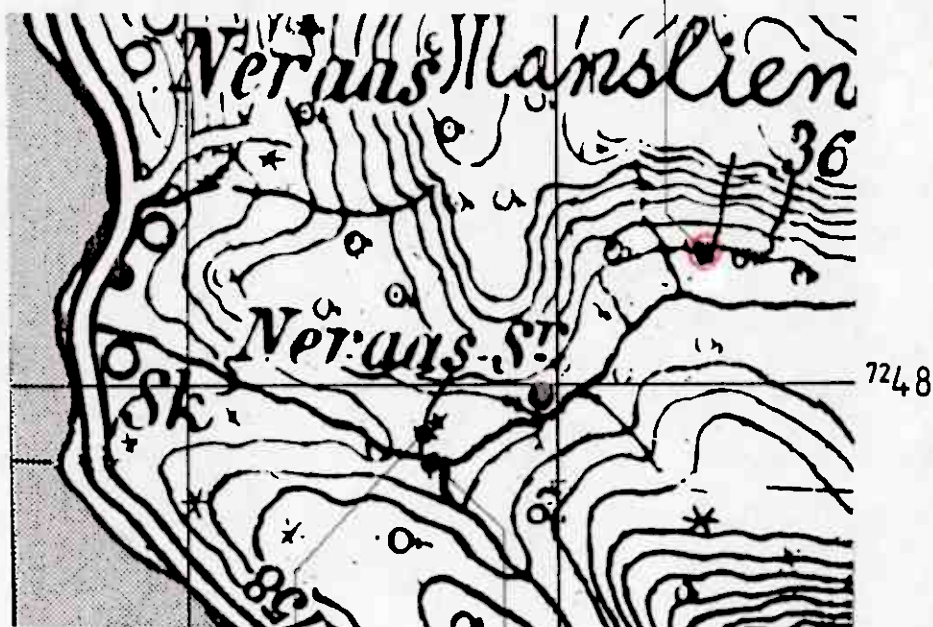
Recommendations:

Single claim kept as part of interest in Sausvatn-Sobergsliden belt.

NO 3023

10 6
8 33

393 62



NO 1002

122 -
14 10
82

NO 1003

21 -
17 11
96

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 46 MANS LIEN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: **Vasbotn** No **169** Size: km²

Claim location: Map sheet 1825 IV Velfjord

:Air Photo

:Okø Kart

Pegged: Yes No --- Partly Claim retained: Filed in 1983

Stream length a) 0.5km; b) 1.0km; c) 0.3km; d) 0.5km

Drainage area: 2.0 km²

Original sample point (ppb Au) resampled: Yes No

Follow up team: IF/AS Duration: 3.0 days

Nos. of follow up sample : NO 1007 - No 1024

No 1032, 1033, 1037 (all pan samples)

Description of drainage system:

A) and b): rise in moderate slopes with thin overburden (karsting in b), b) flowing over steep cliffs with numerous falls and rapids down to a plateau with moderate slope and bedrock in stream bed thence over a cliff to a farmland plain with post-glacial marine deposits (clay and gravel). A) flows only via rapids to the latter. Streams c) and d) rise in moderate to steep grassy slopes, flowing via rapids to the farmland plain S. of Sausvatnet.

Geology:

All streams drain a sequence of metasediments, these being in order upstream: marble, biotite-garnet schist (serpentinite pods occur near the contact of these), gabbro-clast conglomerate, and a banded calc-silicate-sulphide rich unit, locally containing marbles. The latter have been intruded by a large metagabbro body which has caused strong skarning. On the south shore of Sausvatn, a quartz-carbonate-arsenopyrite vein-breccia occurs within a sheared and silicified zone of several metres width within the calc-silicate rich unit.

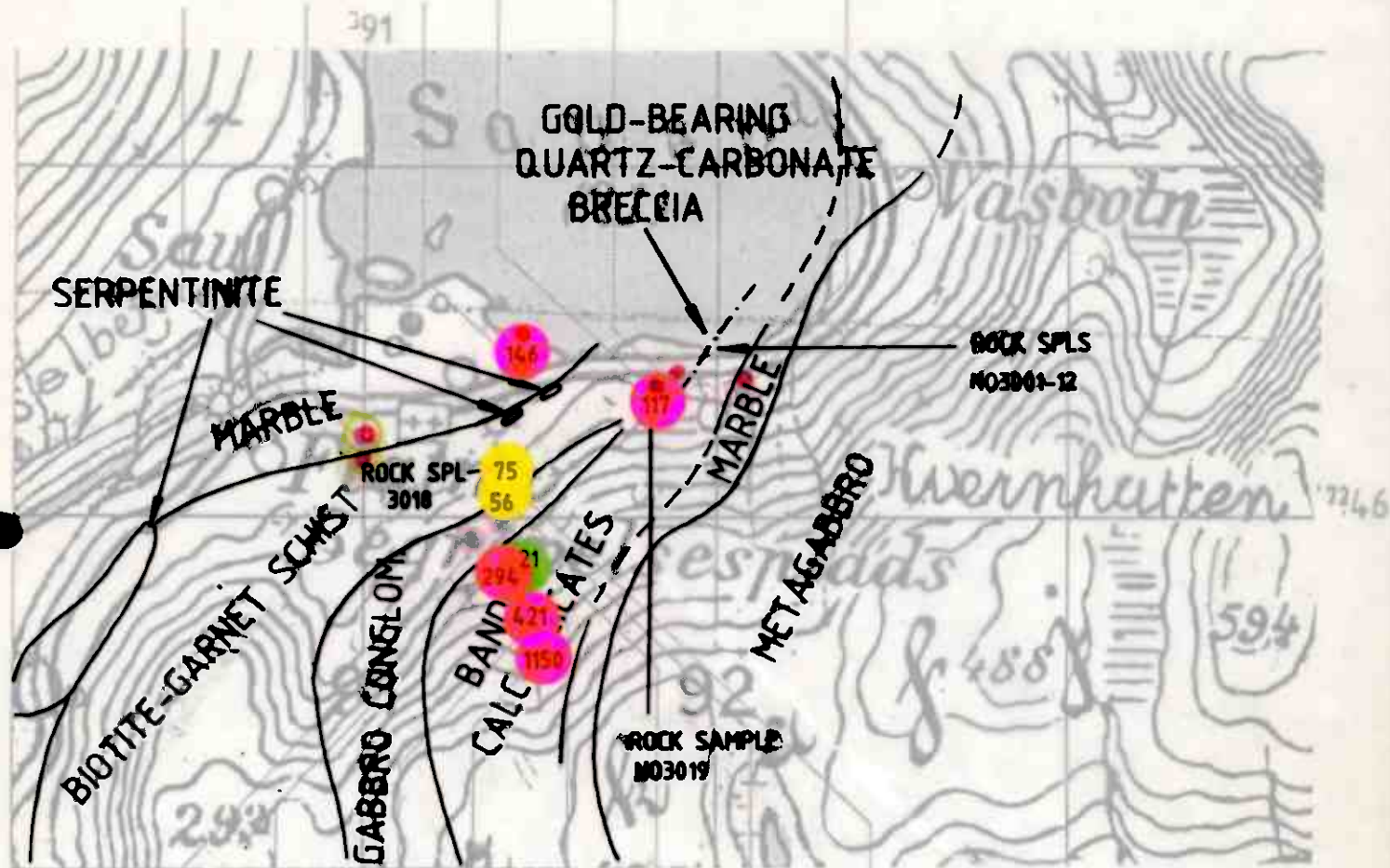
Comments:

Analysis of the arsenopyrite-bearing breccia revealed up to 2 g/t Au. This prompted a panning survey of the area. Stream b) was recognized as highly anomalous (4) high-grade anomalies to 1150 ppb Au, 2 med-grade anomalies and one low-grade anomaly). In addition a 0.5 mm flake of free gold was recovered. Streams a) and d) were not anomalous. Stream c) however, which also drains the strike projection of the S. Sausvatnet vein-breccia yielded high-range Au anomaly.

Recommendations:

A high-priority area, detailed geology/lithogeochemistry, particularly in the calc-silicate unit. Mineralogical studies of retained pan concentrate splits.

NO1032	NO1033	NO1016	NO1015	NO1014	NO1024
16 1	16 10	53 13	24 20	18 9	21 5
21 52	19 63	41 140	44 9	19 11	14 44
396	380	228	104	86	114



NO1010	NO1013	NO1022	NO1023	NO1012	NO1011	NO1009	NO1007, NO1008, NO1017, NO1018
29 11	32 107	36 172	25 224	20 4	26 7	33 5	41 17 24 3 25 5 23 4
19 83	21 65	17 90	19 469	21 3	19 68	19 39	16 46 16 36 16 91 14 45
126	130	130	146	126	266	158	134 136 184 270
							NO1019, NO1020, NO1021, NO1037
							24 21 25 15 22 62
							39 58 17 118 16 30
							204 200 148

ALL PAN SAMPLES

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 169 VASBOTN
 Scale 1:20.000

ANOMALY FOLLOW UP

HELGELAND PROJECT 1983

Claim Name Sorenskogvand No:49 Size:1.0 km²

Claim location:Map sheet 1825 IV Velfjord

Air Photo

Doko Kart DK 189 I,III

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 0.5km Drainage area: 1.0km²

Original sample points(4,1,2,3ppb Au) resampled: Yes No

Follow up team: AB/BS Duration: 1.0day

Nos.of follow-up samples: NO 3001 - NO 3007

Description of drainage system:

The drainage system consists of a major E-->W stream running in a flat valley which narrows upstream towards the east. The valley bottom is filled with thick glacial till. A number of tributaries drain into the main stream from steep slopes to the north and south. The upper part of the main stream partly inside the claimed area no. 64, Tosen I (Tosen claim block, TN 13).

Geology:

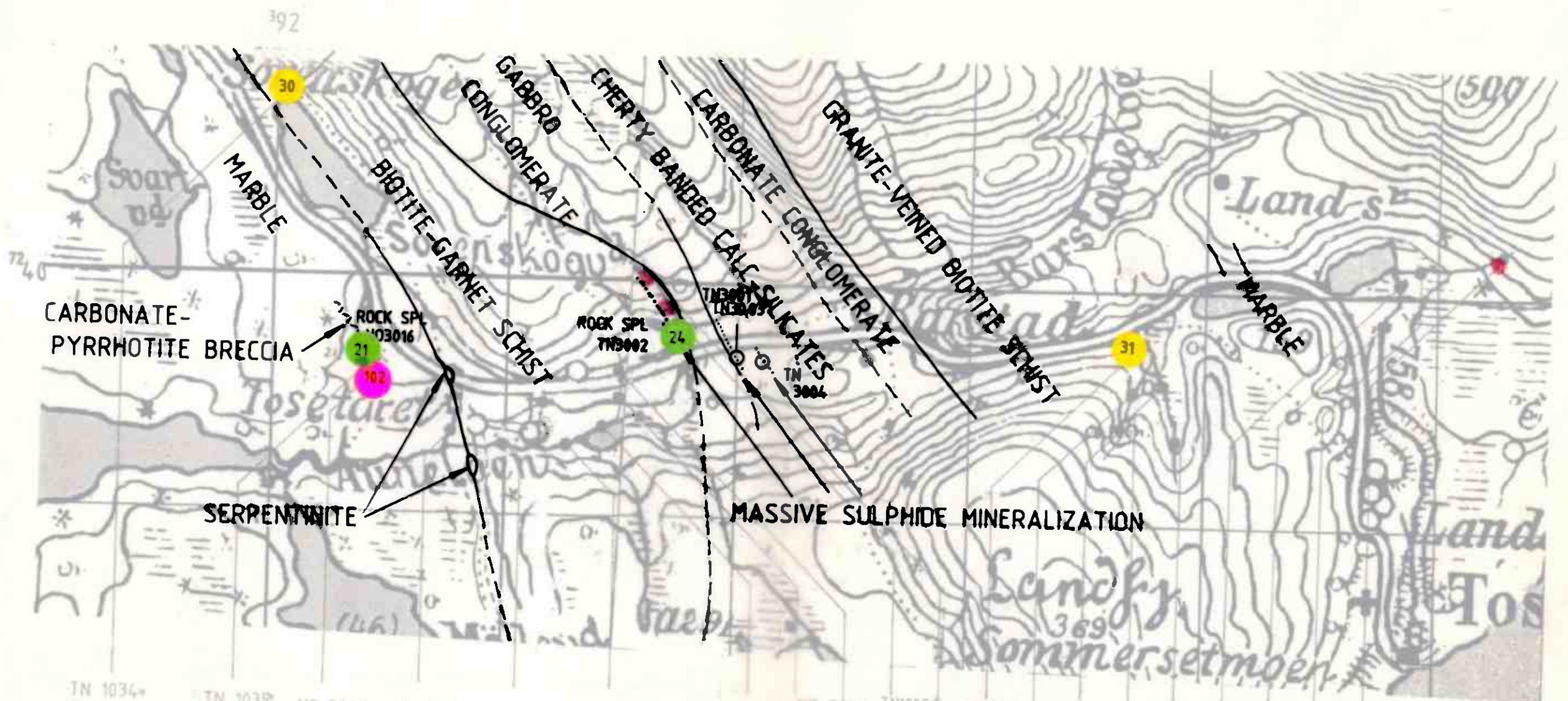
Headwaters of main system in granite-veined biotite schist containing a thin marble. This is underlain downstream by the following formations (in order): carbonate conglomerate; a cherty, banded calc-silicate sequence; gabbro conglomerate; biotite-garnet schist and finally marble with amphibolites and granitic intrusions. Serpentinite pods occur at the contact of the latter two formations. Massive sulphide mineralization (pyrrhotite-arsenopyrite-chalcopyrite) was recorded at several horizons structurally above and below the gabbro conglomerate. Quartz-carbonate vein brecciation in marbles similar to that hosting Au at Sausvatn (claim 169 Vasbotn) was recorded in a tributary having its headwaters in biotite-garnet schist, which was anomalous in 1982.

Comments:

One high-range Au anomaly detected in the latter stream (above). In addition, five pan samples were taken of which were anomalous, (two were low-range anomalies and one medium-range Au anomaly). Of the rock samples taken, one returned with Au values (153 ppb, TN 3003: arsenopyrite-bearing massive pyrrhotite).

Recommendations:

Low priority, but will be included in follow-up of Sausvatn-Sobergslien belt. Sulphide horizons to be followed to the south and into claim 05 Tosen.



TN 1034*	TN 1035*	NO 3002	NO 3001	NO3003	NO 3004	NO 3006	NO 3005	TN1005*	TN3022	TN3025	TN3024	TN3018	TN 3021
23 -	20 5	14 -	11 -	22 -	17 -	12 -	18 -	69 8	17 2	26 -	35 -	9 3	18 -
59 3	32 40	15 7	12 2	18 7	16 7	16 3	13 4	23 32	12 2	38 -	12 -	8 2	8 18
146	128	57	32	65	45	69	54	132	TTS	91	74	38	64
							NO 3007	TN 1004*	TN 3026	TN 3023	TN 3019	TN3020	
							38 -	78 4	15 2	11 2	6 2	5 2	
							14 2	17 137	18 1	10 1	2 3	6 8	
							51	85 -	98	28	36	36	
								16 72					
								114					

* DENOTES PANSAMPLES

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 49,64 SØRENSKOG-
Scale 1:20.000 VAND, TOSEN I

TOSBOIN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tosen II No:65 Size: 1.5 km²

Claim location: Map sheet 1825 I Tosbotn

Air Photo 8495-25-4-11

Oko Kart DK 169 II, IV; L169 I

L 170 II, III; L 171 IV

Pegged: Yes No Partly Claim retained: Yes No

Stream length 0.5km Drainage area: 0.25km²

Original sample point: opp Au) resampled: Yes No

Follow up team: AS/JT Duration: 0.5day

Nos. of follow-up sample : TN 3012 - TN 3014

Description of drainage system:

The original sample (040102) is not taken in major stream which runs N-S, and which the claim area encompasses. The original sample is taken in small stream to the SW which is not on the map. The stream may be followed for approx. 500m in overgrown boulder field.

Geology:

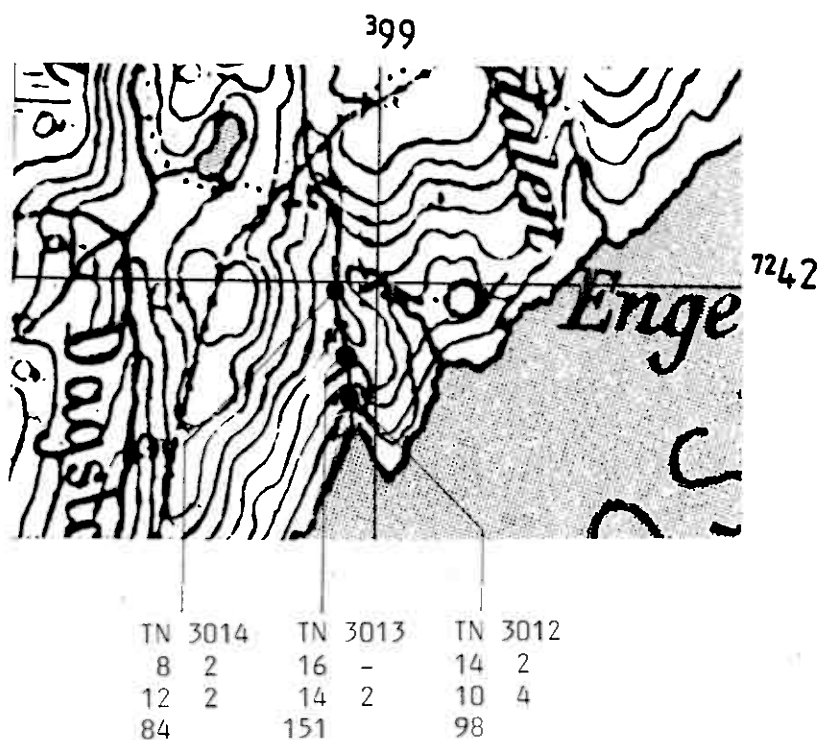
No outcrops observed along stream. In road outcrop approx. 50m from stream at the lower end of stream (south), interbanded hornblende-biotite and calc-silicate gneiss were observed. Metamorphic skarn developed in calc-silicate gneiss (garnet-diopside). Development of tourmaline in quartz-rich sweat bands in hornblend-biotite gneiss. Both types of gneiss and skarn are intersected by fine to medium-grained acid dykes. The dykes are discordant to foliation and slightly deformed. No contact reactions with host rocks were observed. All above mentioned rock types are cut by 0.5-1cm broad quartz-(sulphide) filled linear joints. The claimed area does not cover the stream with the original sample point. Claim with borders: U98500, U99000, N41500, N42000 would cover the drainage area.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 65 TOSEN II
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tosen III No66 Size: 1.5 km²

Claim location: Map sheet 1825 I Tosbotn

 : Air Photo

 : Oko Kart DK 169 II, IV; L169 I

 L 170 II, III; L 171 IV

Pegged: Yes No Fertty Claim retained: Yes No

Stream length 1.5km Drainage area: 3.0km²

Original sample point (7,4ppb Au) resampled: Yes No

Follow up team: JT/AS Duration: 1.0day

Nos. of follow-up sample : TN 3006 - TN 3011

Description of drainage system:

Stream source in small lake, with seepage and flows down over a steep cliff to an area of thin overburden (locally boggy) past a small dam to the original anomaly point.

Geology:

Headwater in granodiorite, having contact with marble and biotite-hornblend schist/gneiss approx. midway along the stream. Joints filled with zeolite occur in the contact zone.

Comments:

One low-range Au anomaly detected in area with 67 Tosen IV.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tosen IV No: 67 Size: 0.5 km²

Claim location: Map sheet 1825 I Tosbotn

:Air Photo

:Okø Kart DK 169 II,IV; L 169 I

L 170 II,III; L 171 IV

Pegged: Yes No Partly Claim retained: Yes No

Stream length 0.7km Drainage area: 0.75km²

Original sample point(5 ppb Au) resampled: Yes No

Follow up team: AS/JT Duration: 0.5day

Nos.of follow-up sample : TN 3015 - TN 3017

Description of drainage system:

Sources by seepage, draining a densely vegetated cirque containing boulder fields, with a considerable thickness of overburden. Clay observed in southern tributary (?kaolinitic - derived from weathering of acid intrusive).

Geology:

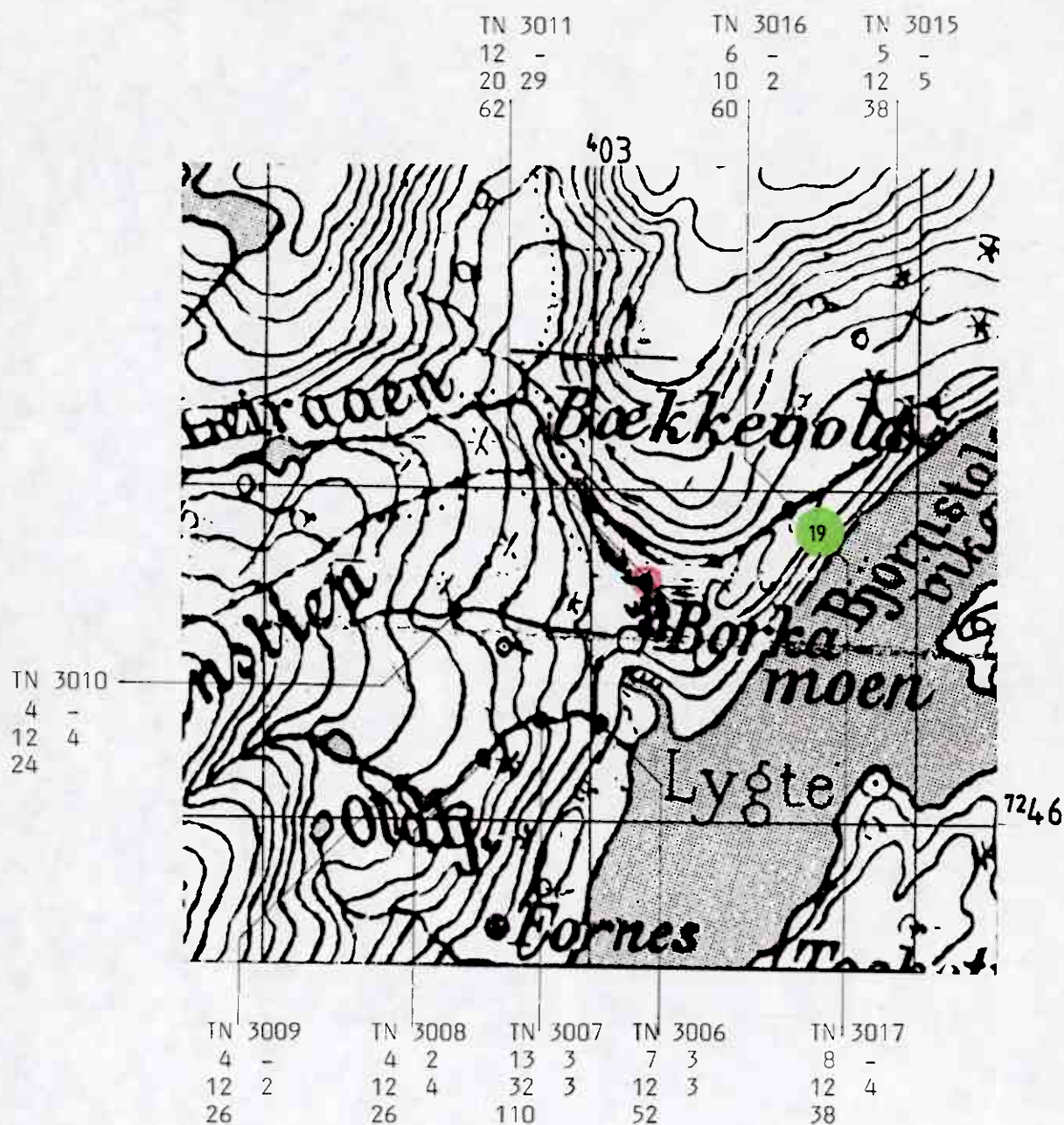
Poor exposure. Granodiorite, partly porphyritic, was recorded together with local k-feldspar alteration.

Comments:

One low-range Au anomaly in area with 66 Tosen III.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 66+67 TOSEN III+IV

Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Breivasselven No:26 Size:1.5 km²

Claim location:Map sheet 1825 I Tosbotn

 :Air Photo

 :Okø Kart DL 1731 III

Regged:Yes-No Partly Claim retained: yes /No

Stream length: 2.5km Drainage area:1.5 km²

Original sample point(2 ppb Au) resampled:Yes-No

Follow up team: TO/TK Duration:1.0 days

Nos.of follow up samples: TE 7001 - TE 7009

Description of drainage system:

The stream originates from a snow field, and runs mostly directly over bedrock. A tributary enters 400 m south of Strompdalen saeter, and the 1982 original anomalous sample was taken below (north of) that junction. Map sheet Tosbotn bears only little resemblance to the topography!!

Geology:

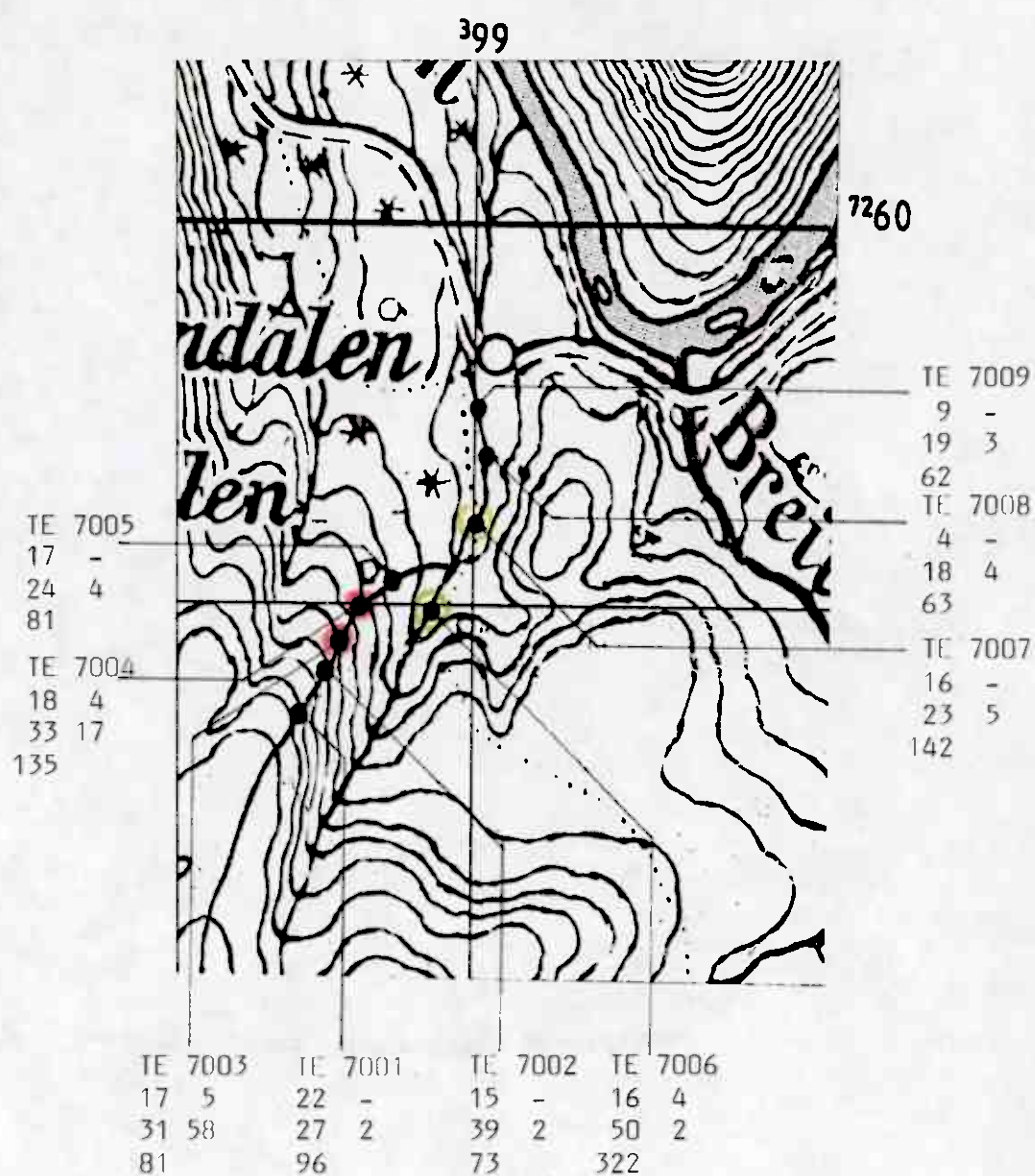
Higher altitudes along the sides of the valley are dominated by granodiorite, whereas the valley floor is built up from marbles, amphibolites and calc-silicate schists. Towards north these varied metasediments are replaced by more homogenous mica-schists. The western stream runs along a brecciated fracture zone.

Comments:

No gold anomalies detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 26 BREIVASSELVEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Storelven Nc60 Size: 0.25 km²

Claim location: Map sheet 1825 I Tosbotn

 : Air Photo 8495-25-5 013

 : Oko Kart DM 171 III

Pegged: Yes No --- Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 1.0km²

Original sample point: (20 ppb Au) resampled: Yes No

Follow up team: JT/AS Duration: 1.0day

Nos. of follow-up sample : TN 8001 - TN 8005

Description of drainage system:

The stream is a minor tributary to Storelven. The western (lower) part of the stream runs through flat partly cultivated pasture with thick overburden. The central part runs through forest in flat ground with thick overburden. The eastern (upper) part runs in boulder field partly overgrown, and partly with overburden. Bedrock was not observed at any point along the sampled section of the stream.

Geology:

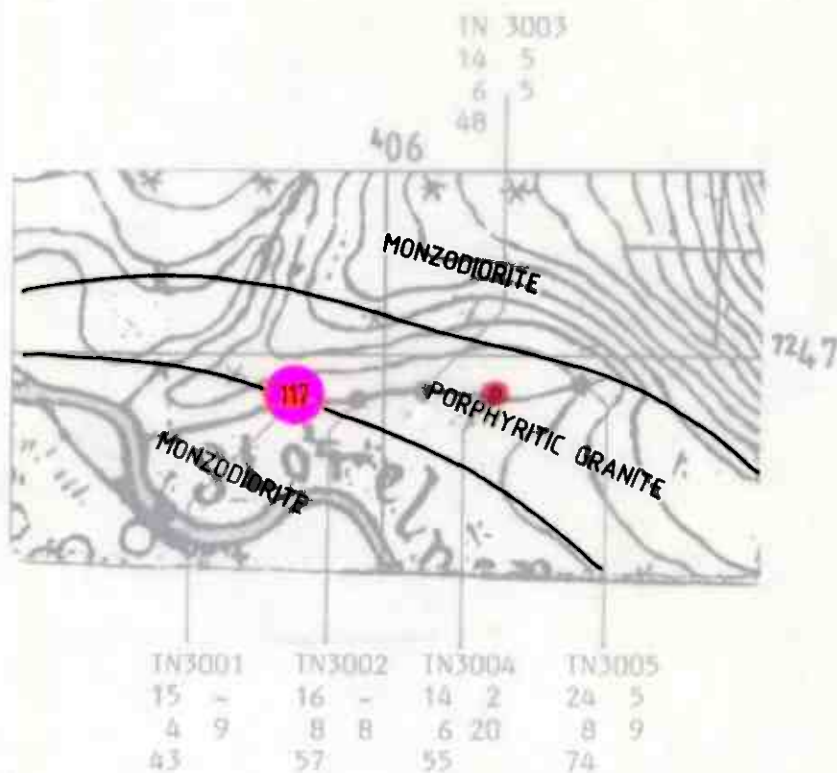
No exposure in sampled section of stream, but apparently consists of porphyritic granite intruded into monzodiorite.

Comments:

One high-range Au anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 60 STORELVEN

Scale 1:20.000

60 STORELVEN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:

Storborja No:25 Size:2.0 km²

Claim location:Map sheet 1825 I Tosbotn

 :Air Photo

 :Okø Kart

Regged:Yes No--Partly Claim retained: yes /No

Stream length: 2.0km Drainage area:5.0km²

Original sample points(8,3 ppb Au) resampled:YesNo

Follow up team: CR/AK Duration:2.0 days

Nos. of follow up samples: TE 8016 - TE 8031

Description of drainage system:

The stream system consists of three subparallel streams running in east-west direction. The southernmost stream (resample of 040155) drains a boggy, densely vegetated hillside. The middle stream (resample of 040123) runs in the upper part over bare rock, and descends via a cleft into a dense forest. The northernmost stream originates from snowfields, and runs over outcrop into a canyon ending in the main valley with dense vegetation and moderate overburden.

Geology:

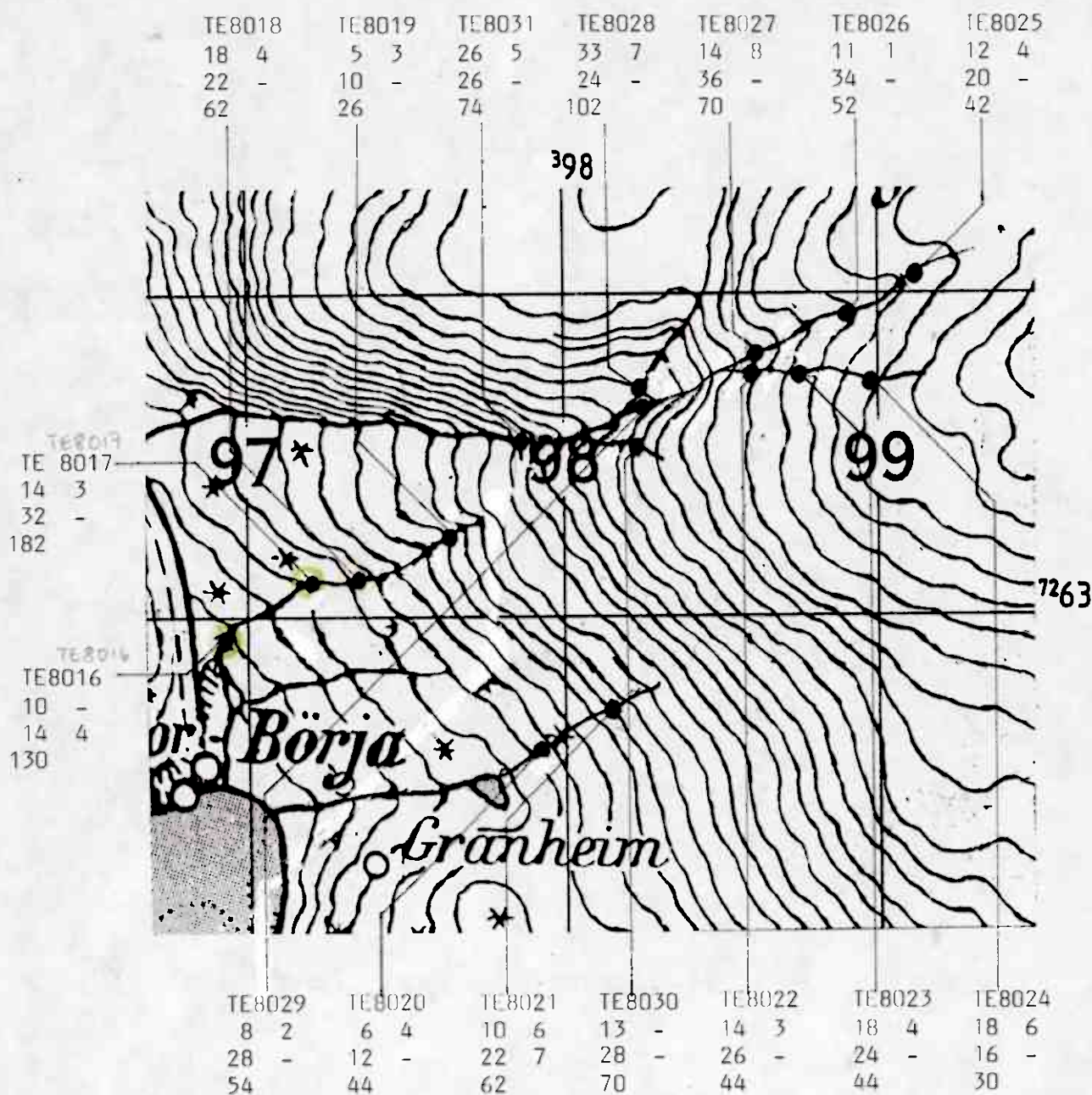
Valley bottoms are built up from marbles alternating with mica schists. Skarns within the marbles are frequent and carry disseminated sulfides. The contact between the marbles and the porphyritic granodiorite is discordant. The diorite encloses xenolith of mica-schists. Along the northernmost stream stilbite alteration was observed in an east-west trending cleft. Around sample point 030 TE 8028 the presence of brecciated ultramafic rocks was recorded.

Comments:

Our claim application collided with that of Sulfidmalm. Therefore only anomalies, covered by joint-venture claims were followed up. No gold anomalies detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 25 STORBØRJA
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tettingelven No: 24 Size: 3.0 km²

Claim location: Map sheet 1825 I Tosbotn

 : Air Photo

 : Oko Kart

Pegged: Yes No -- Partly Claim retained: yes/ No

Stream length: 2.0km Drainage area: 2.0km²

Original sample points (11, 2, 6, 2, 3, ppb Au) resampled: Yes/No

Follow up team: CR/AK Duration: 1.0 days

Nos. of follow up samples: TE 8001 - TE 8015

Description of drainage system:

The stream (040132) originates from a bog and descends via a steep waterfall into a valley with dense vegetation and moderate overburden. The stream where sample 040140 had been collected has very limited extend and drains a heavily vegetated hillside.

Geology:

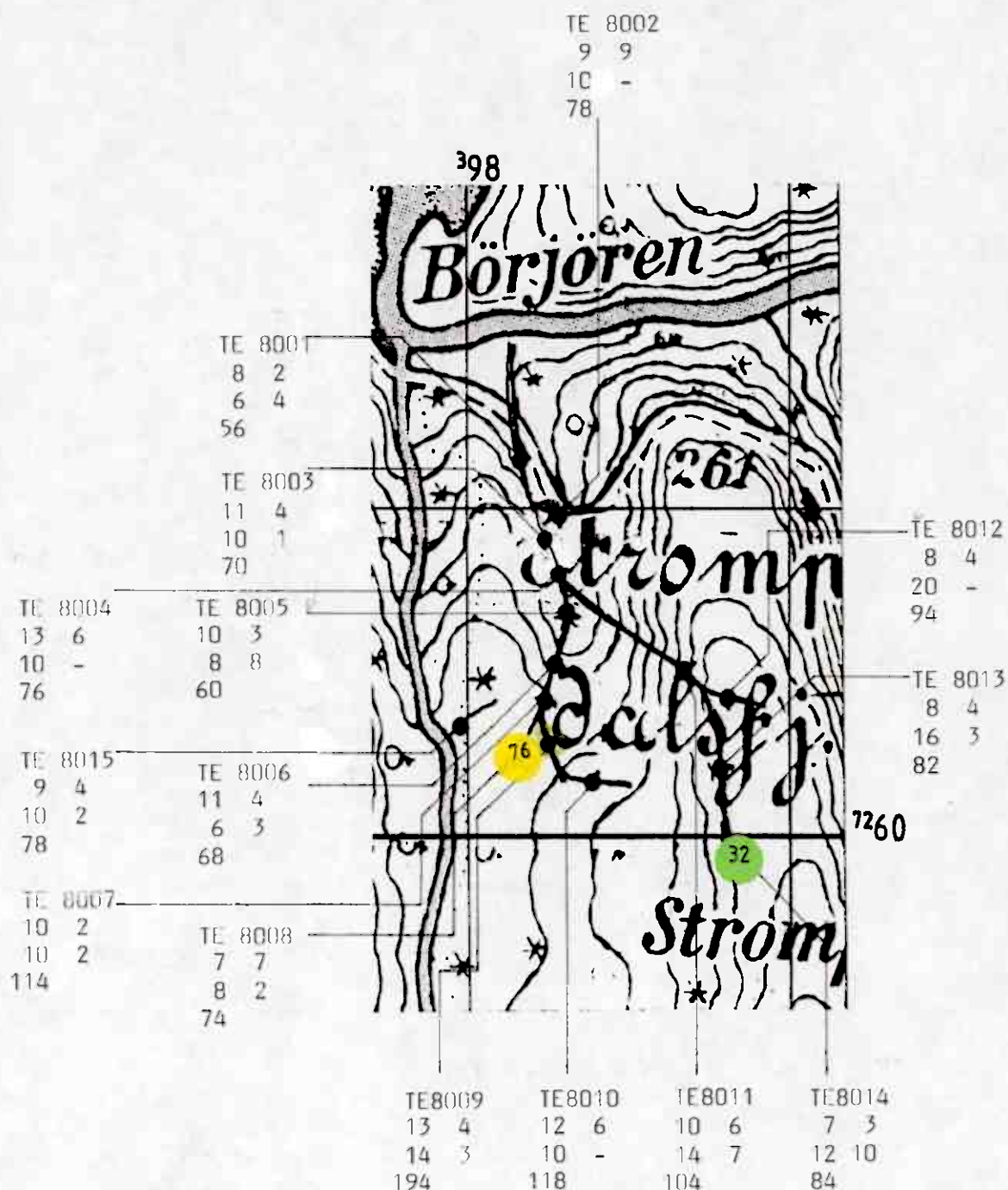
Higher altitudes along the sides of the valley are dominated by granodiorite, whereas the valley floor is built up from: marbles, amphibolites and calc-silicate schists. Towards south these varied metasediments are replaced by more homogenous mica-gneisses. Some 50 m downstream of sample 0300TE 8006 an outcrop of ultramafic rocks was recorded.

Comments:

Our claim application collided with that of Sulfidmalm. Therefore only anomalies, covered by joint-venture claims were followed up. One middle range and one low range anomaly detected, both at extreme end of drainage system.

Recommendations for further follow up:

A low priority target for mapping and rock sampling.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 24 TETTINGELVEN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1988

Claim Name: Feitskaret No:139 Size:3.75 km²

Claim location:Map sheet 1825 I Tosbotn

 :Air Photo 5575 K 017

 :Okø Kart DN 174 I,II,III,IV

Pegged:yes No Permit Claim retained: yes / No

Stream length 3.0 km/ Drainage area:7.0km²

Original sample point (24 ppb Au) resampled: Yes-No

Follow up team: JT/AS Duration:2.0 days

Nos.of follow up sample EI 3001- EI 3012

Description of drainage system:

Stream system originates in a high plateau, descending via waterfalls into a broad, steep sided valley drained by numerous tributaries to east and west. Further south the stream flows along a flat valley bottom and is partly braided. Variable glacial cover.

Geology:

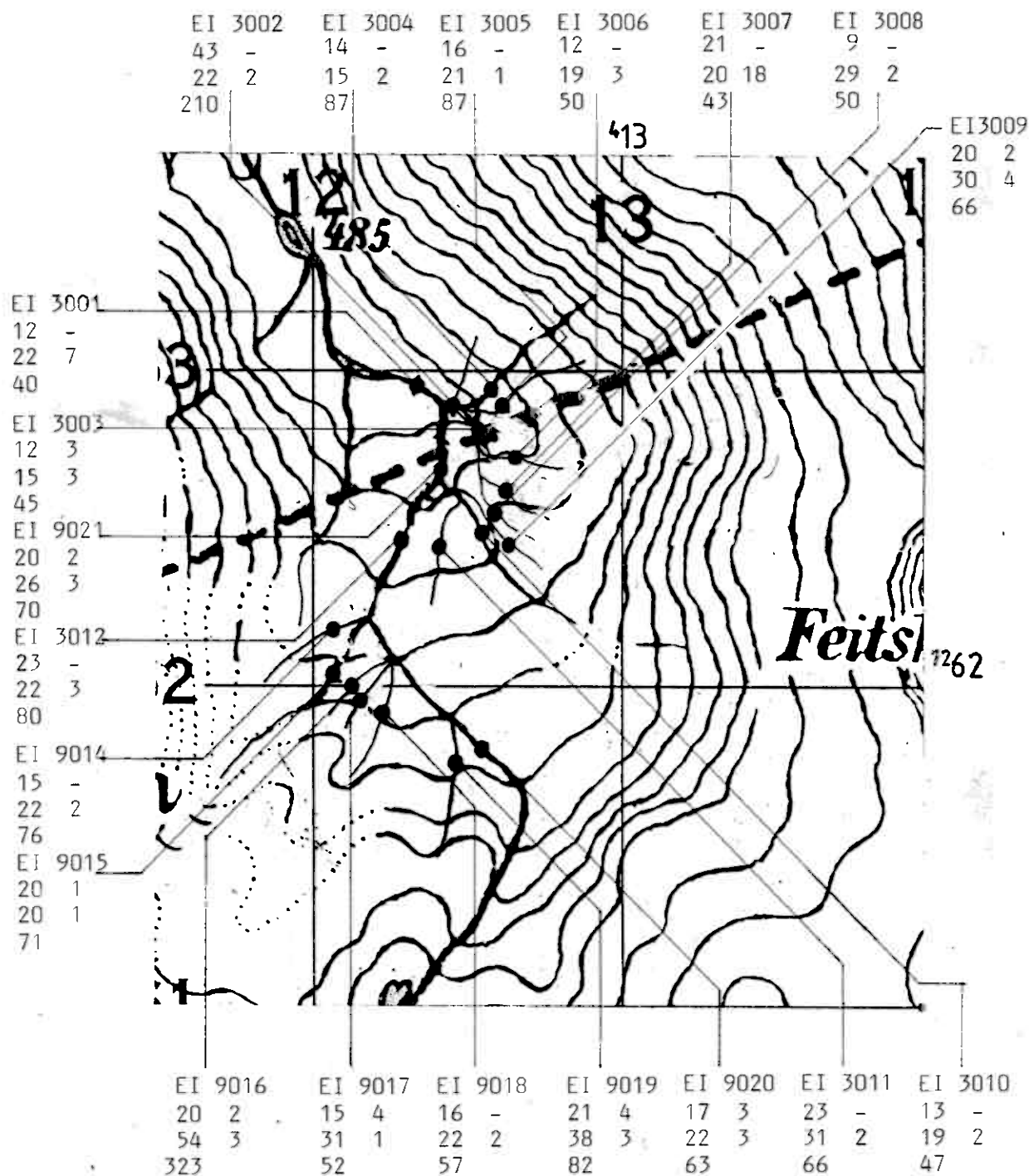
Biotite schist/gneiss predominates, containing subconcordant granodioritic dykes. Skarning was observed in the south, together with boulders of marble and serpentinite.

Comments:

No gold anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 139 FEITSKARET
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Serfjorden 'B' No: 51 Size: 0.75 km²

Claim location: Map sheet 1826 IV Tjøtta

: Air Photo E 007,008,009

: Oko Kart DK 180 I,II

DK 181 III

Pegged: Yes-No Partly Claim retained: yes/ No

Stream length 1.0 km/ Drainage area: 0.75 km²

Original sample points (75ppb Au) resampled: Yes/No

Follow up team: AS/BS Duration: 1.0 days

Nos. of follow up samples SF 3018 - SF 3025

Description of drainage system:

Stream system consists of main stream system and tributary system A. The area was sampled after continuous heavy rainfall resulting in very strong current and numerous temporary streams. The sampling was restricted to what was assumed to be the main stream, and tributary B. The drainage area consists of steep, overgrown boulder field up to 300-400 m. above sea level, overhung by cliffs above 300-400 m above sea level. The main stream was sampled up to 320 m. above sea level and trib. B. up to 160 m. above sea level. Sample point from 1982 field season (170042) is placed downstream from junction of main stream and trib. A.

Geology:

Outcrops were only found along main stream system, and consisted of mica-schists, gneiss intruded by granodioritic dykes. Boulders of skarn, rusty biotite rich mica-schist, and marbles found in mainstream and trib. A. All rock types with disseminated sulphides (pyrrhotite). It was not possible to locate the source area for these boulders.

Comments:

No Au anomalies detected.

Recommendations:

None.

ANOMALY FOLLOW UP - HELGELAND PROJECT 1983

Claim Name: Fjeldstuen No:163 Size: 0.5 km²

Claim location: Map sheet 1825 I Tosbotn

:Air Photo

:Okø Kart

Pegged: Yes No Pertly Claim retained: yes /No

Stream length: 0.1km Drainage area: 0.1 km²

Original sample point (236 ppb Au) resampled: Yes+No

Follow up team: JT/AS/GT Duration: 0.5 days

Nos. of follow up sample : KD 8022

Description of drainage system: Original sample had been taken in small trickle in boggy area 50 meters from mainstream (opposite of workshop for tunnel construction). The seepage emerges after only 50 meters from a small talus with boulders of gneiss. Active stream sediment is underlain with gray alluvial clay. Stream is not on map.

Regional Geology: Uniformly, fine grained biotite schists form the main lithology. The schists are regionally interbanded with metasediments such as marbles and amphibole schists. Quartz veining with pyrite nodules is common.

Comments:

No gold anomaly detected.

Recommendations for further follow up:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tosen I No:64 Size: 1.5 km²

Claim location: Map sheet 1825 I Tosbotn

Air Photo

Okø Kart DK 169 II, IV; 170 II, III;

L 169 I; L 171 IV

Pegged: Yes No-Partly Claim retained: yes /No

Stream length: 2.0 km/ Drainage area: 3.0km²

Original sample points: (2,5,1 ppb Au) resampled: Yes No

Follow up team: AS

Duration: 1.0 days

Nos. of follow up samples: TN 3018 - TN 3026

Description of drainage system:

The drainage system is made up of two separate stream systems. An eastern system running N→S from Landsæterfjeld to Tosenkapel (at Tosenfjorden). A central system running from Landfjell towards the North to the Tosen road where the stream runs towards the west, where the stream runs through the Sørenskogvann claim. (No. 49, Nordfjellmark Block). See also follow up sheet on this claim as it is situated at the western end of the same drainage system. 4 samples have been taken in the eastern stream system, which consists of two tributaries. Both tributaries run through flat, boggy ground. The Western (A) drains from a lake whilst the eastern (B) runs through a boulder field in the upper part. Most of the area is covered by a thick overburden of glacial till and bluish-grey clay is present in the stream bed. 5 samples have been taken in the central stream system; which consists of two tributaries upstream from the original sample point (040099). The southern tributaries (C) runs parallel to gneissosity (bedding?) and runs through an area of partly boggy terrain and partly well exposed bedrock. The eastern tributary (D) runs over a well exposed, steep slope, with little overburden further upstream, whilst the lower part runs through terrain similar to the southern tributary.

Geology:

The main part of the sampled streams run in thick to medium-thick overburden and it has not been possible to do any thorough geological observations. (Also because of very bad weather conditions). The main rock type observed in the area is garnet-bearing qtz-feldsp-biotite-mica gneiss.

Comments:

One middle range gold anomaly detected.

Recommendations for further follow up:

Claim retained as part of interest in the Sausvatn - Sobergsliden belt.

SVENNINGEN

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Stavaselven No131 Size:1.25 km²

Claim location:Map sheet 1925 IV Svenningdal

:Air Photo

:Oko Kart DO 174 I,II

Pegged:Yes No-Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 2.5 km²

Original sample points(236 ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:1.5 day

Nos.of follow up sample : FF 5120 - FF 5127

Description of drainage system:

The stream is about 4m wide in its lowest part and narrows to about 1m in the upper part. Most of the stream flows in a deep canyon. A spring and a stream forms the one major tributary. Besides this there are smaller tributaries further down stream.

Geology:

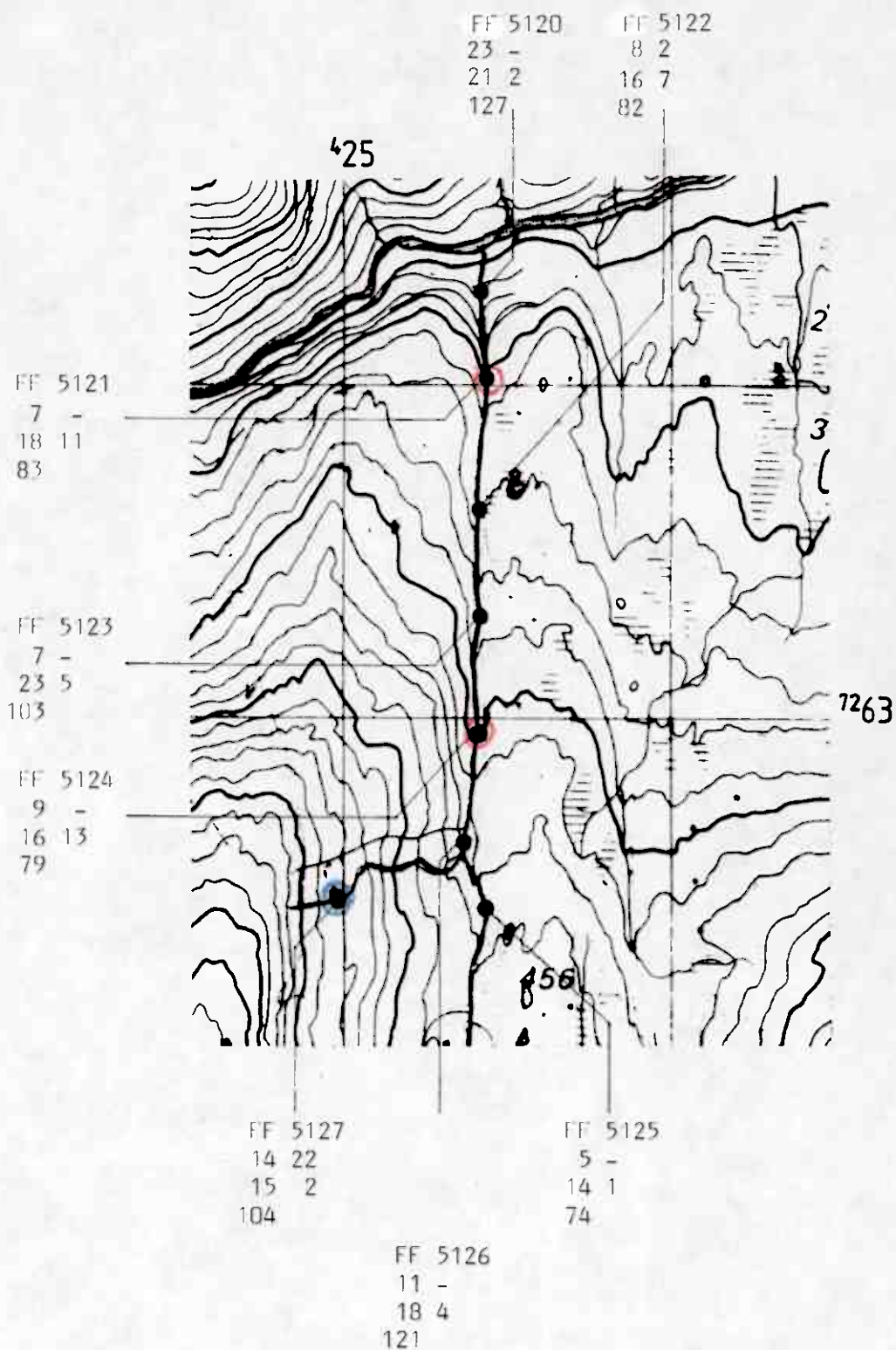
The stream flows mostly in marble. Furthest down stream there is glacial till overburden and many boulders of mica-schist and granodiorite. A bit further up stream there is outcrop of white-black foliated marble and a meta-granodiorite-monzo-diorite. Furthest up stream the stream flows in pebbles of mica-schist. There is outcrop of biot/musc.-schist with deformed sugary-grained quartz pegmatites.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 131 STAVASELVEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Rotstokkmobekken No:109 Size: 2.5 km²

Claim location:Map sheet 1925 IV Svenningdal

 :Air Photo

 :Oko Kart DF 173 I,II

Pegged:Yes No-Fertly Claim retained: Yes No

Stream length 4.0km Drainage area: 2.5 km²

Original sample points(36 ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:1.0 day

Nos.of follow up sample : FF 5114 - FF 5118

Description of drainage system:

The stream is less than 2m wide. It has no major tributaries, but one very small ditch joins it in the moor. The stream has a very steep slope in its lower part near the EE. In the moor it is meandering for about 300m.

Geology:

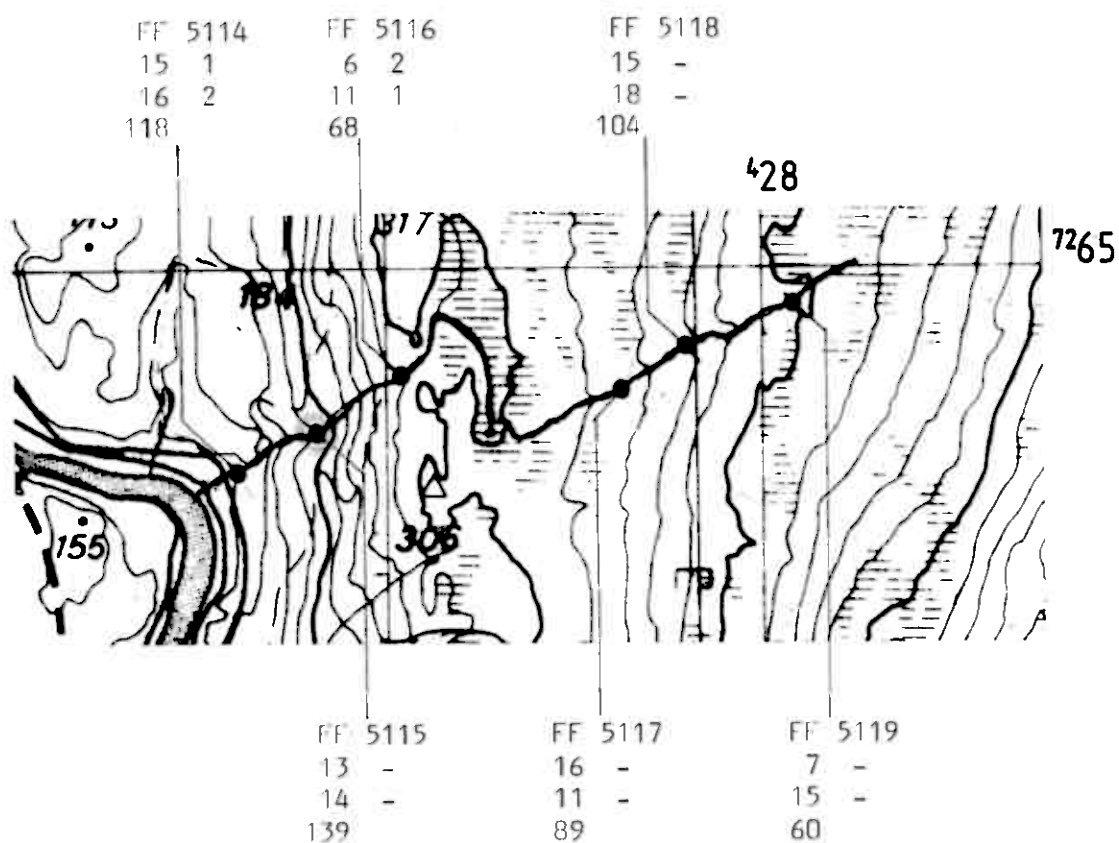
The lower part of the stream runs in an area with talus and till overburden. The boulders consist of biotite-gneiss schist and some pegmatites or granites. Further upstream there are outcrops of a monzodioritic rock with micas and pegmatites. Upstream from the moor there are mica-schist with pegmatites.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 109 ROTSTOKKMOBEKKEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Nonstinderne No:130 Size:2.0 km²

Claim location:Map sheet 1925 IV Svenningdal

:Air Photo

:Oko Kart DP 173 II

Reeged:Yes No-Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 3.5 km²

Original sample point (89ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:1.5 day

Nos.of follow up sample : FF 5128 - FF 5136

Description of drainage system:

The lower part of the stream, which is 3-4m wide, runs in a moor as a meandering stream. There are several smaller tributaries and one major tributary. The upper part is very steep and flows over benches with many falls.

Geology:

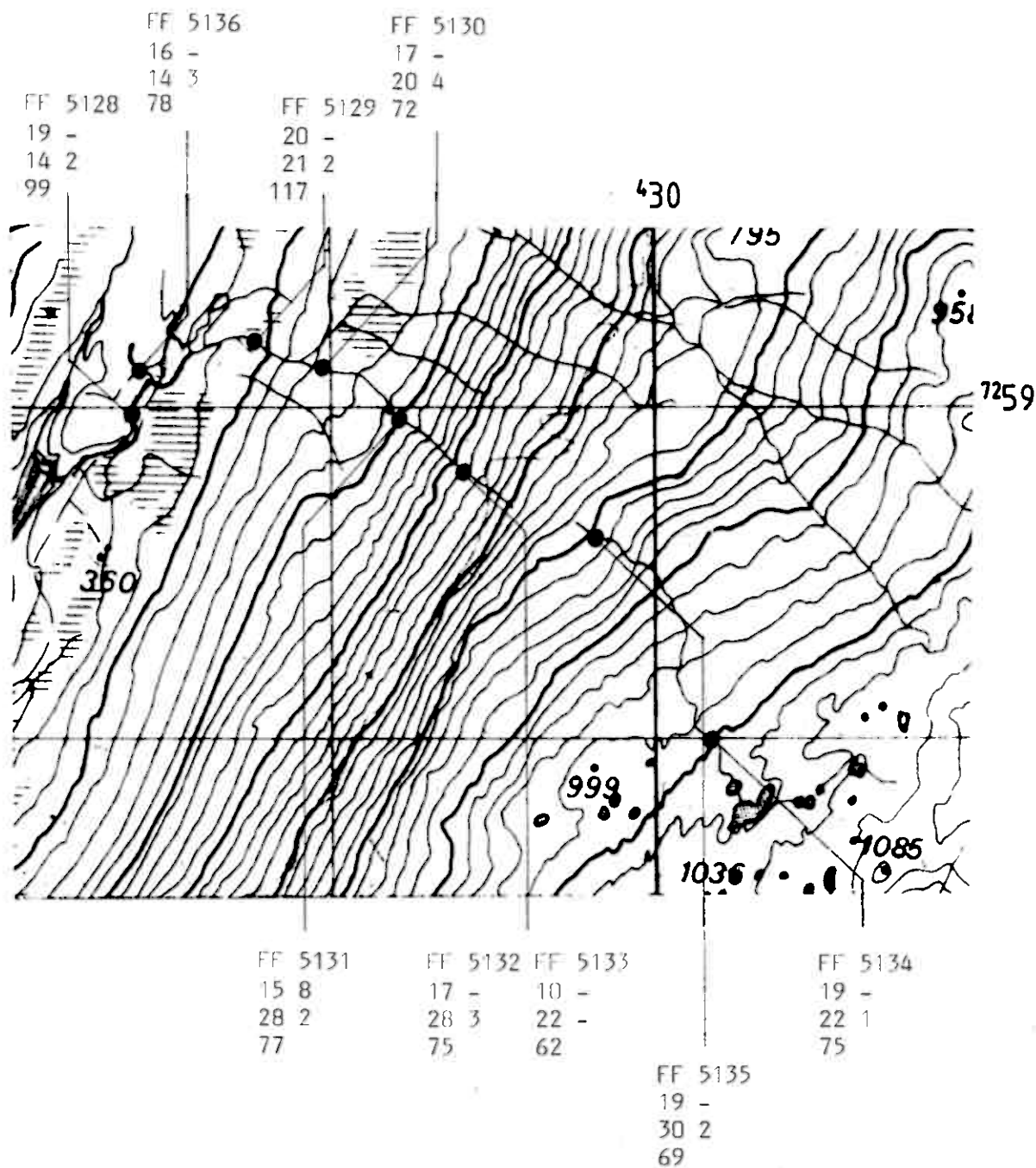
The lower part of the stream is flowing in till. The upper steeper part flows in biotite-gneiss with quartz-veins. Locally the gneiss is rich in amphiboles.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 130 NONSTINDERNE
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Svartjern No: 166 Size: 0.75 km²

Claim location: Map sheet 1925 IV Evenningdal

Air Photo

Okø Kart

Pegged: Yes No Partly Claim retained: yes/No

Stream length: 3.0 km Drainage area: 0.75/km²

Original sample point (88 ppb Au) resampled: Yes/No

Follow up team: JT/AS/GT Duration: 0.5 days

Nos. of follow up samples: KD 6026 - KD 6027

Description of drainage system:

Stream drains southern slopes of Gaasvasselven. 1982 anomaly only in the lower part of the stream close to the confluence with Gavasselva (990036), whereas sampling further upstream (990028+990029 showed no anomalies. Therefore follow-up was restricted to lower part of stream section.

Geology:

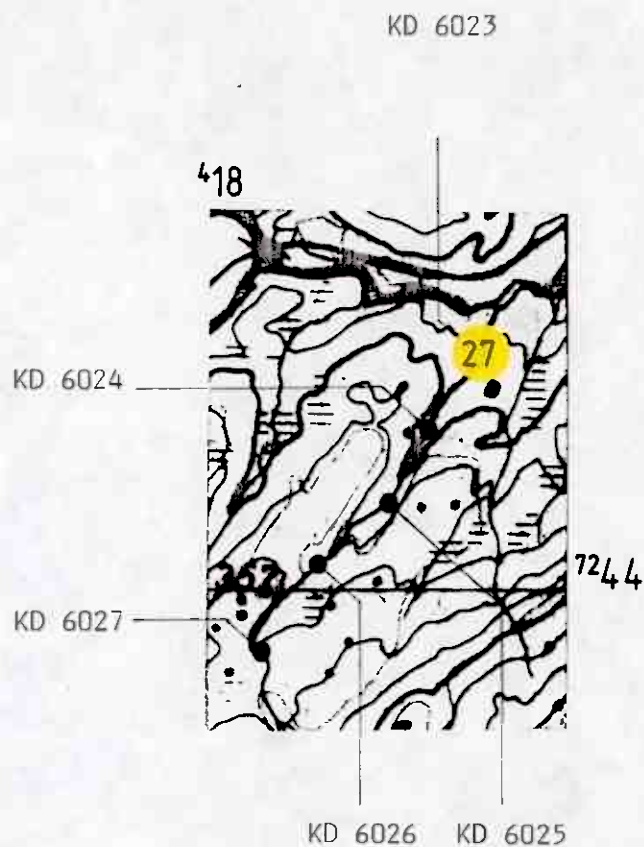
Main lithology is a fine-grained, platy biotite schist, these are interbanded with other metasediments such as marbles, schistose amphibolites, chlorite schists and greywacke-like slates.

Comments:

One medium-range anomaly detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 166 SVARTTJERN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Bustadbekken No: 110 Size: 2.0 km²

Claim location: Map sheet 1925 IV Svenningdal

Air Photo

Oko Kart DO 171 II, R 171 I, III

Pegged: Yes No Partly Claim retained: yes/ No

Stream length 4.0 km Drainage area: 2.5 km²

Original sample point (35 ppb Au) resampled: Yes No

Follow up team: HK/TK Duration: 1.5 days

No. of follow up samples MA 7028 - MA 7039

Description of drainage system:

Rises in high altitude meltwater area, a large stream flowing over bedrock to 400 m above sea level, where it runs in moraine the rest of the way to H. Riplingvatn.

Geology:

Mica-schists, quartzitic layers with strike NE/SW in lower part. Gneiss with garnets in upper part of stream. Boulders of conglomerate (quartzite congl.), serpentinite + chromite, graphite schist was seen from time to time in the stream. The graphite schist was only seen in upper part of the stream. This stream carried a lot of fresh material weathered from bedrock all the way up to the upper part.

Comments:

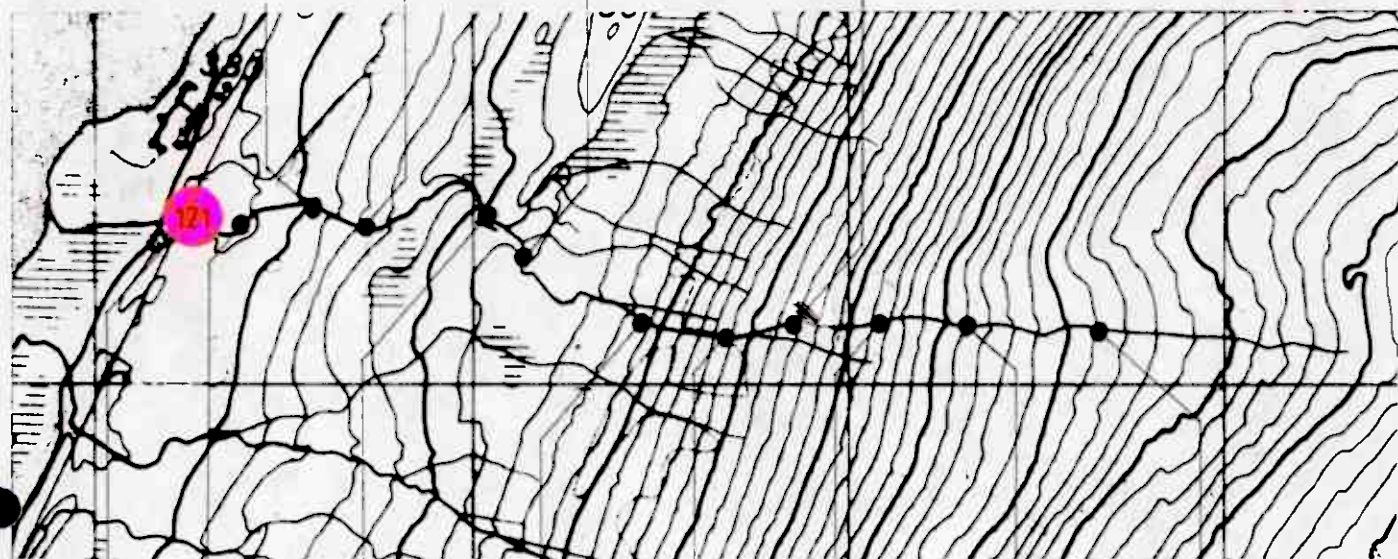
One high-range Au anomaly close to original anomaly point in drift covered area.

Recommendations:

None.

MA 7030	16 -	MA 7031	26 2
31 2	23 -	MA 7033	25 -
34 -	55	56 1	58
108		27 -	
		67	
		52	

436



724.8

MA 7028
19 -
23 -
61

MA 7032
20 4
26 -
57

MA 7036
22 -
22 -
52

MA 7039
8 2
20 -
27

MA 7029
17 4
23 -
21

MA 7035
24 4
33 -
64

MA 7038
25 3
33 -
54

MA 7040
21 4
23 -
100

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 110 BUSTADBEKKEN
Scale 1:20.000

ANOMALY FOLLOW UP

HELGELAND PROJECT 1983

Claim Name:Fiplingvatn No:127 Size:1.0 km²

Claim location:Map sheet 1825 IV Svenningdal

Air Photo

Oko Kart DP 169 I,III

Reeged: Yes No Partly Claim retained: yes/ No

Stream length 0.4km/ Drainage area:0.5 km²

Original sample point (163 ppb Au) resampled:Yes No

Follow up team: HK/TK Duration: 0.5days

Nos. of follow up samples MA 7040 - MA 7042

Description of drainage system:

Stream starts in a small lake and runs into another larger lake. It runs partly on bedrock, partly on boulders. The last part (where original anomalous sample was taken) is in a bog.

Geology:

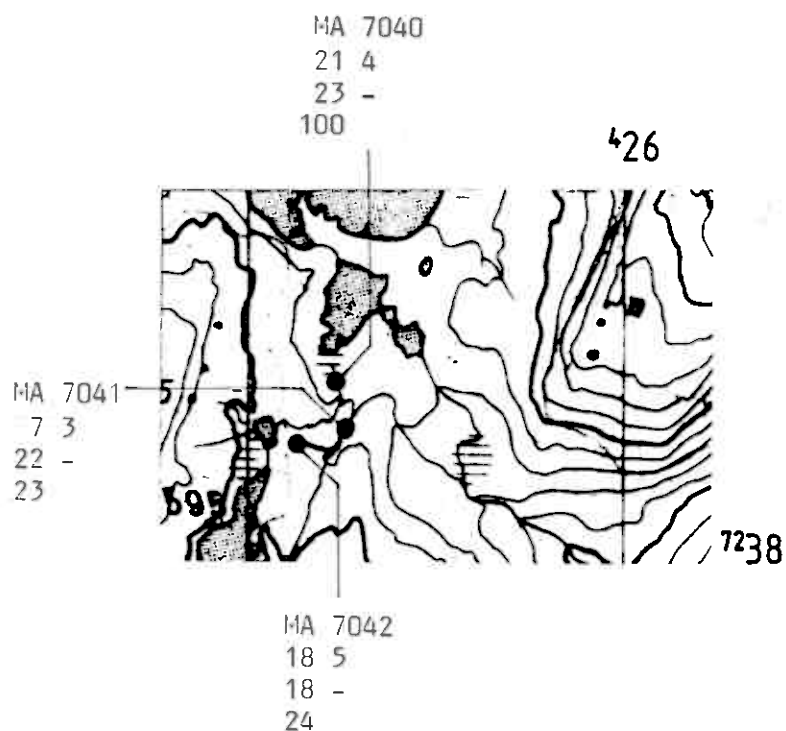
Mica-schists, quartzitic layers. (Micagneiss). Medium-grained.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 127 FIPLINGVATN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Baatsbarryggen No: 111 Size: 1.0 km²

Claim location: Map sheet 1925 IV Svenningdal

Air Photo

Geo Kart DP 170 II, IV

Q 170 I, III

Pegged: Yes No Partly Claim retained: yes/ No

Stream length 1.0km/ Drainage area: 1.0 km²

Original sample point (52 ppb Au) resampled: Yes No

Follow up team: HK/TK Duration: 0.5 days

Nos. of follow up samples MA 7043 - MA 7046

Description of drainage system:

Source in icefield, flowing on bedrock in the upper parts down to bog and the original anomaly point. Abundant karsting.

Geology:

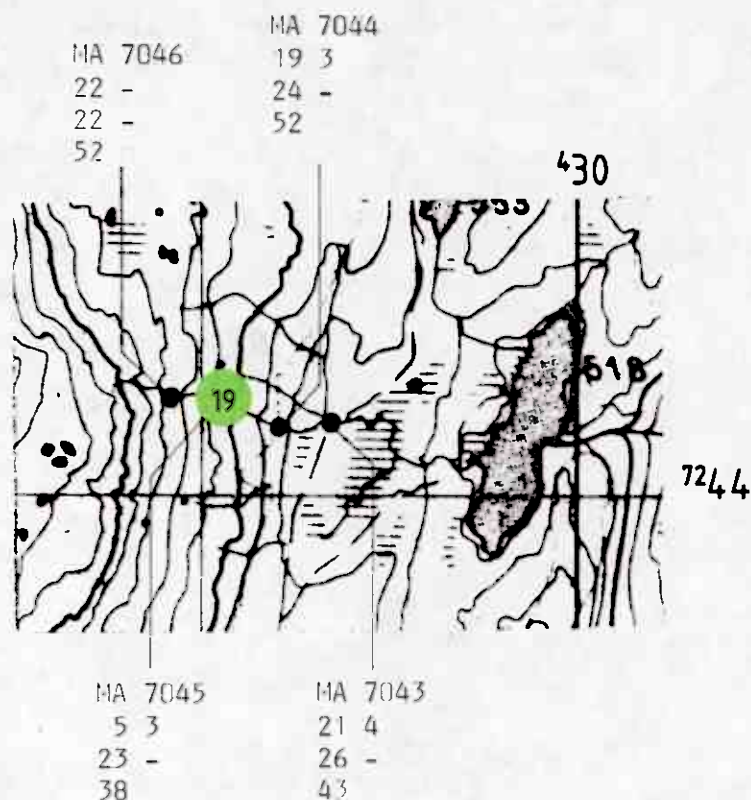
Marbles dominate the area, occurring with psammite and mica-schist in the middle and upper sections of the stream.

Comments:

One low-range Au anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 111 BAATSBARYGGEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tomasvatn No: 063 Size: 1.5 km²

Claim location: Map sheet 1925 III Majavatn

:Air Photo

:Oko Kart DG 167 II

Pegged: Yes No --- Partly Claim retained: yes/ No

Stream length: 4.0 km Drainage area: 2.5 km²

Original sample point (27 ppb Au) resampled: Yes No

Follow up team: HK/TK JT/GT Duration: 3.0 days

Nos. of follow up samples MA 7001 - MA 7017

MA 8101 - MA 8107

Description of drainage system:

Two branches, one originating from snow melting in mountain side, (the eastern branch) flowing partly directly on bedrock in the upper 1km. The northern branch runs in moraine for most of its length, originating in a bog up in the mountain side. This branch was sampled several times in 1982. Original sample point (anomalous) could not be found. (It was taken in moraine-washed out by the stream).

Geology:

Metasediments, psammite (medium-grained) + medium-grained mica-schist with biotite. (No rusty mica-schist was seen & no quartz veins).

Comments:

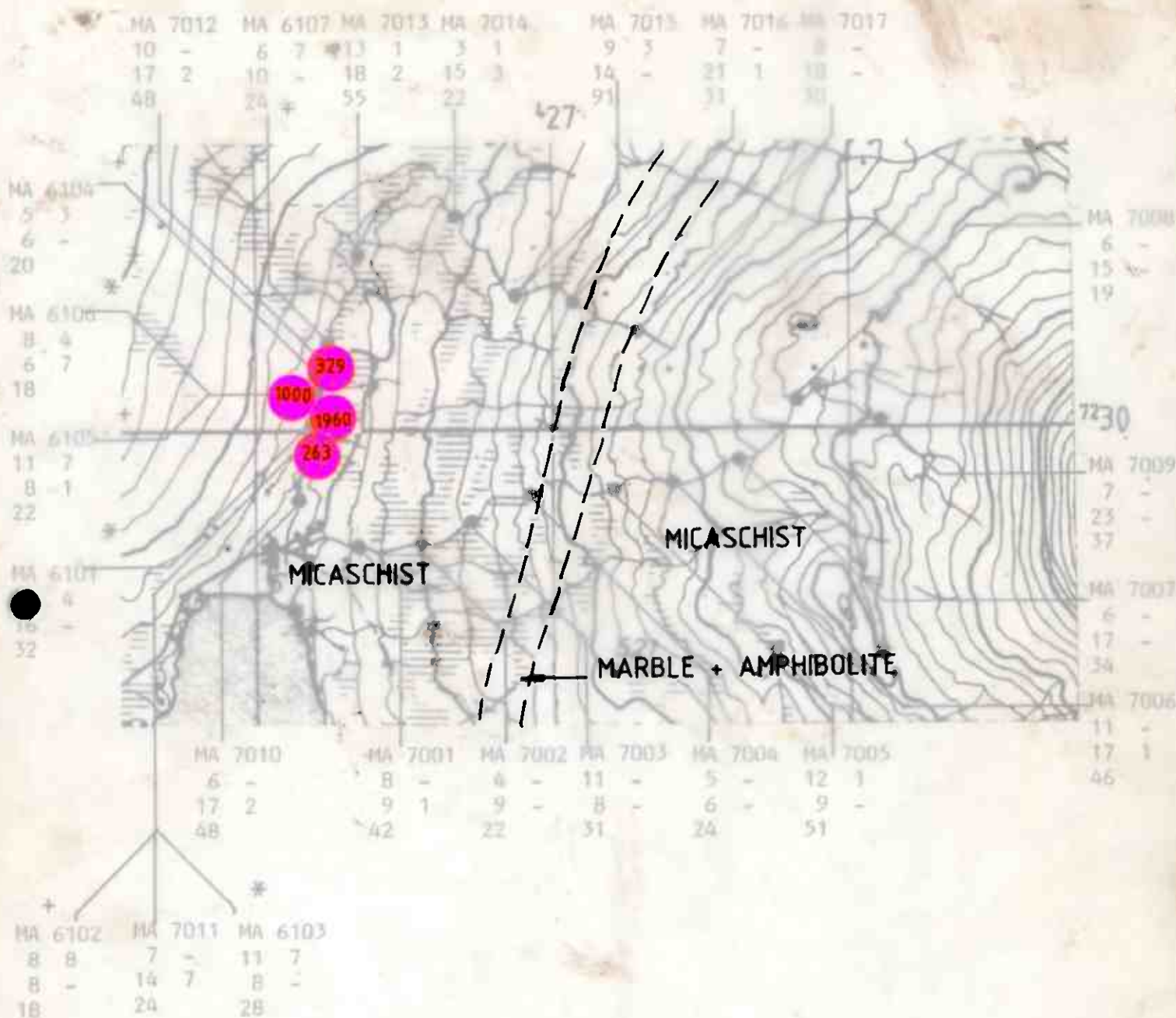
Four high-range Au anomalies detected in a short section of the northern branch, in an area of thick drift. Four overburden samples were taken, one of which returned with a high-range Au anomaly (329 ppb). (PLEASE SEE 1984 FOLLOW UP SHEET

Recommendations:

Deep overburden sampling.

NOT CORRECT.

79/2/83 P. W. CORRECT.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 63 TOMASVATN
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Dunfjoldet No 133 Size: 0.5 km²

Claim location: Map sheet 1925 III Majavatn

:Air Photo

:Oko Kart DG 167 I

Revised: Yes No-Partly Claim retained: yes/ No

Stream length 0.6 km Drainage area: 1.5 km²

Original sample point (36 ppb Au) resampled: Yes No

Follow up team: KA/KB Duration: 1.0 days

Nos. of follow up samples MA 5005 - MA 5009

Description of drainage system:

The stream is approx. 3m wide/0.5m deep for the first 500m. The last 300-400m narrows on entering a fault valley. It suddenly disappears in a underground spring - the bedrock here is marble.

Geology:

White to grey foliated marble with denses of coarse quartz and amphibolite, together with phyllite, intruded by granite/granite-gneiss, having orange-red feldspars, and porphyritic diorite/monzodiorite with visible sphene itself cut by pegmatites.

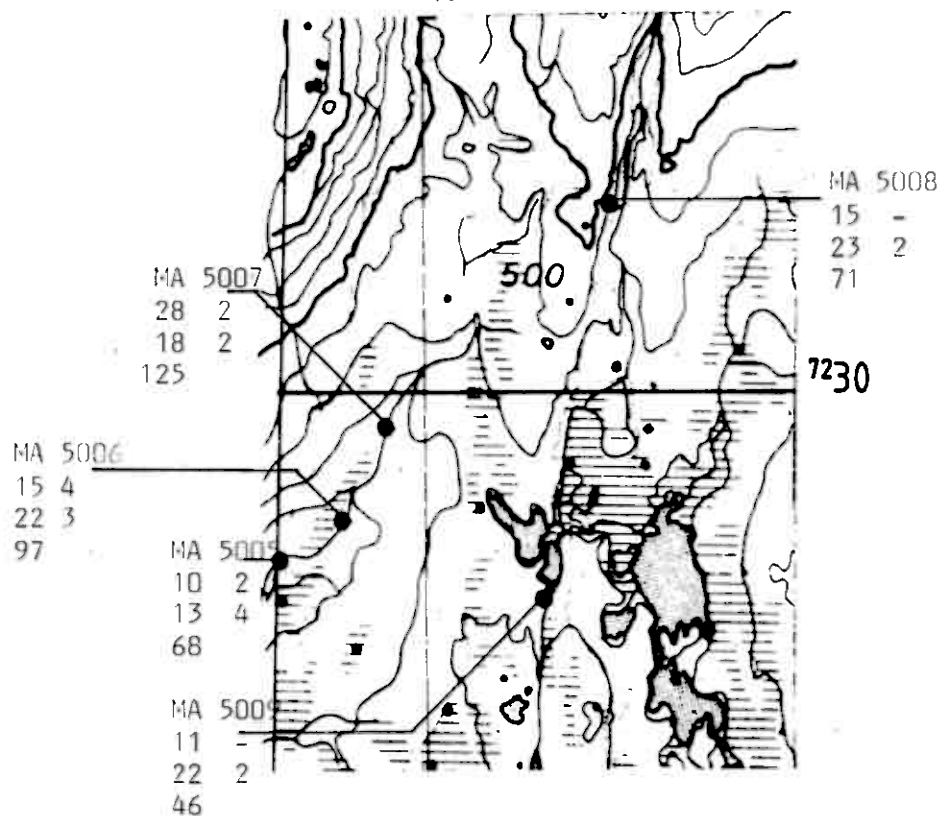
Comments:

No Au anomalies detected.

Recommendations:

None.

417



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 133 DUNFJELDET
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name Tomasvatn B No:070 Size:1.0 km²

Claim location:Map sheet 1925 III Majavatn

Air Photo

Oko Kart DP 166 II

DP 167 IV

Pegged:Yes No Partly Claim retained: yes/ No

Stream length 1.0 km Drainage area:0.75 km²

Original sample point (39 ppb Au) resampled:Yes No

Follow up team: HK/TK Duration: 0.5days

Nos. of follow up samples MA 7018 - MA 7020

Description of drainage system:

Source in bog near hilltop, flowing partly on bedrock and in a fracture traversing strike. Upper 100m has rusty boulders, but this is probably due to precipitation.

Geology:

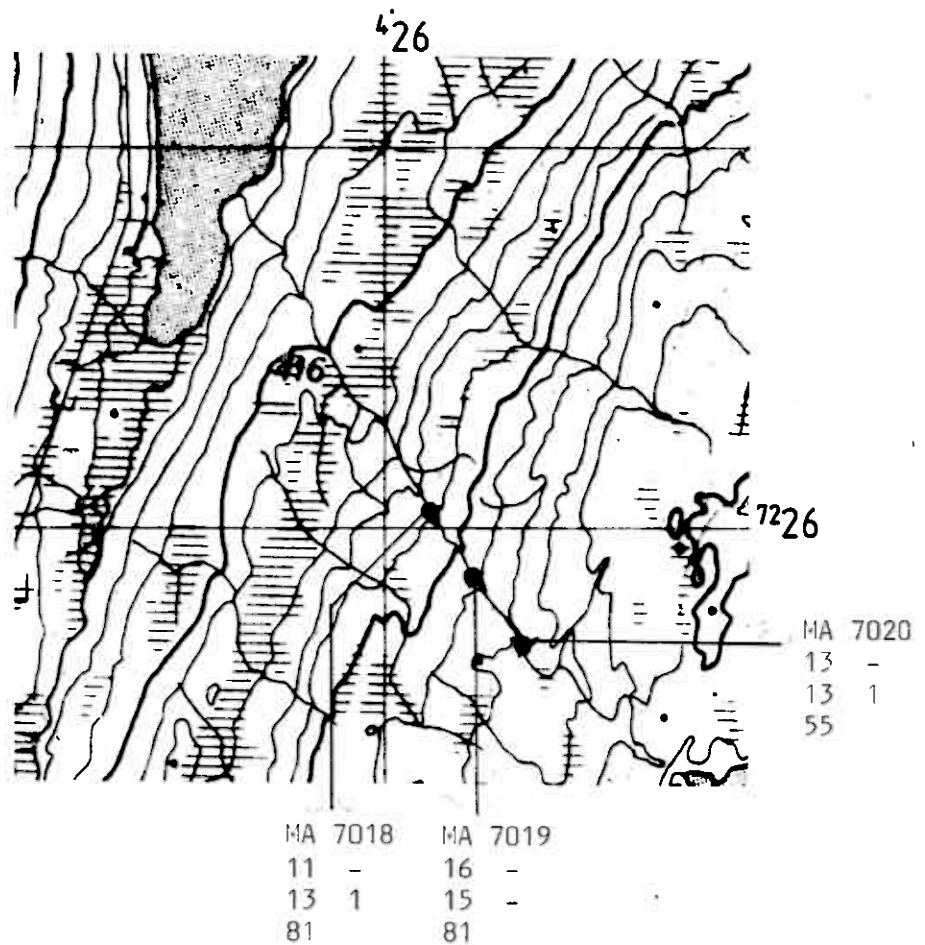
Mica-schists (med-grained biotite-rich) with layers of grey fine to medium-grained marbles. The marbles are banded having thin layers of mica-schist. Marble horizons could easily be spotted by looking at the vegetation which was very dense on them. Outcrops only in stream sections.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 70 TOMASVATN B
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Mellingen No 132 Size: 0.75 km²

Claim location: Map sheet 1925 III Majavatn

:Air Photo

:Okc Kart

Pegged: Yes No-Partly Claim retained: yes/ No

Stream length 1.5 km Drainage area: 2.0 km²

Original sample point (54 ppb Au) resampled: Yes No

Follow up team: KA/KB Duration: 2.0 days

Nos. of follow up samples MA 5001 - MA 5004

Description of drainage system:

Flows on bedrock except for lowermost 0.3-0.4km, with no tributaries, thence into bog to N. Steinvatn.

Geology:

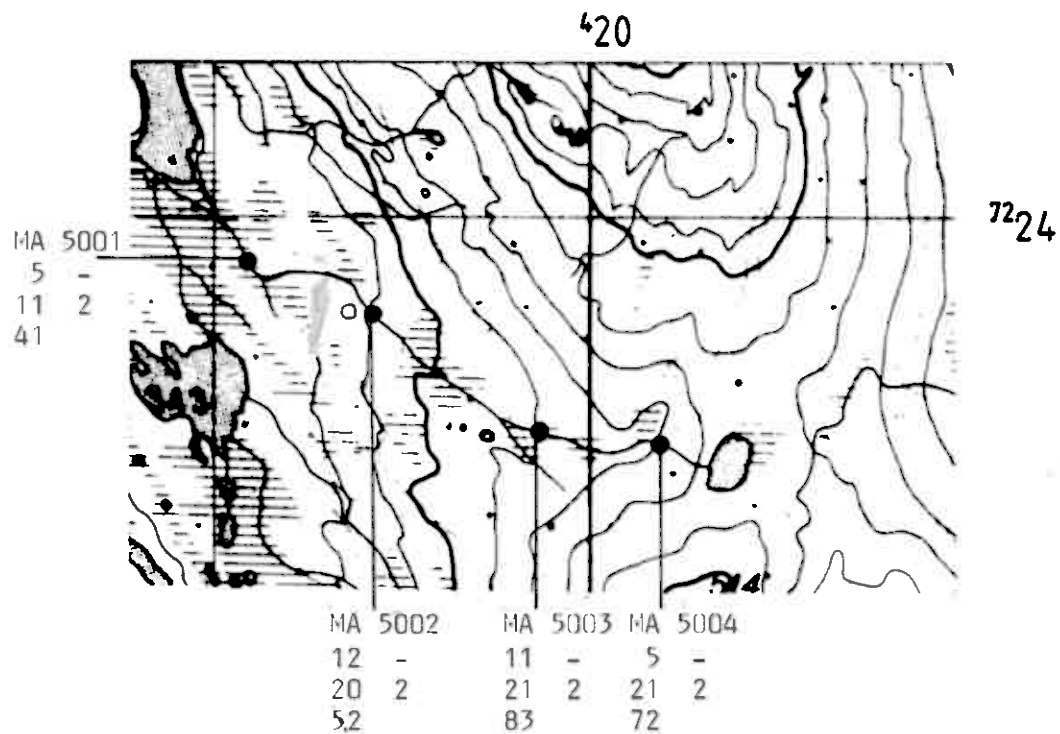
A series of metasediments, in order upstream: quartz-biotite schist, colour-banded marble (with calc silicate reaction boundary at contact with former), amphibolite rich in pyrite, quartzite with layers of mica (+ pyrite).

Comments:

No Au anomalies recorded.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 132 MELLINGEN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Sor Steinvatnet No 072 Size: 2.75 km²

Claim location: Map sheet 1925 III Majavatn

:Air Photo

:Okso Kart

Regged: Yes No Partly Claim retained: yes/ No

Stream length 2.0 km Drainage area: 2.5 km²

Original sample point (18 ppb Au) resampled: Yes No

Follow up team: HK/TK Duration: 1.0 days

Nos. of follow up samples MA 7021 - MA 7027

Description of drainage system:

Two streams, each originating from two separate lakes, join above original anomalous sample point (which could not be found). The stream from S. Steinvatnet runs partly on bedrock the first 1/2 km. The stream from Fisktjern runs in glacial clay down to where the streams join each other.

Geology:

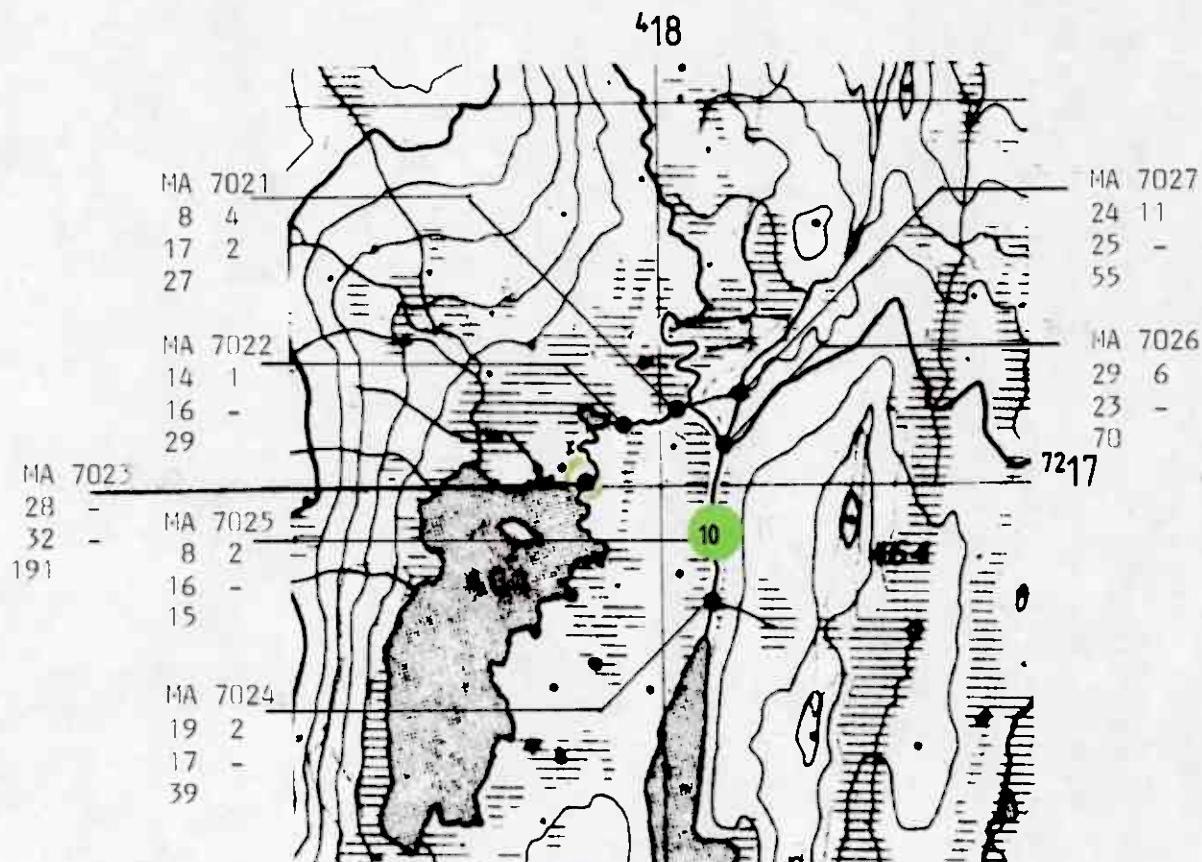
Lower part of stream (below orig. anomalous sample point) runs approx. parallel to strike of banded grey marbles interbedded with mica-schists. Mica-schists dominate area just below and around S. Steinvatnet. Psammitic and mica-schists are interbedded with the marbles.

Comments:

One low-range Au anomaly detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 72 SØR-STEINVATN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Holmvatn No:144 Size:0.5 km²

Claim location:Map sheet 1825 II Majaklumpen/

:Air Photo

:Okø Kart DN 168/2

Pegged:Yes No--Partly Claim retained: yes/ No

Stream length: 0.8km Drainage area:0.25 km²

Original sample point(159 ppb Au) resampled:YesNo

Follow up team: GT/OK Duration:1.0 days

Nos.of follow up samples: KD 6005 - KD 6011

Description of drainage system:

Stream originates in a cirque area with confluence of three minor streams, flows partly along cliffs and over exposed bedrock and joins main stream shortly after sample point KD 6005. Vegetation consists of sparse grass and shrubs in upper part, and changes to moderately dense birch forrest in lower part.

Regional Geology: Predominant lithology is Biotite Gneiss, with rafts of mica schists, quartz-rich green metasediments and carbonates. Alterations, mineralisations: At sample point KD 6006 a appx. 4 meter wide zone, traceable over 7-8 meters with iron oxides in thin mm-scale stockwork, quartz enrichments and sulfides. Rock sample 0300 KD 6006. Similar alterations occur further upstream until sample point KD 6007. Rock sample 0300 KD 6007. 250 meters upstream of sample point KD 6010 a 15-30 cm wide, 10 meter long sulfide horizon was detected in a marble. This mineralization appears to be connected with a fold closure. Rock sample 0300 KD 6010.

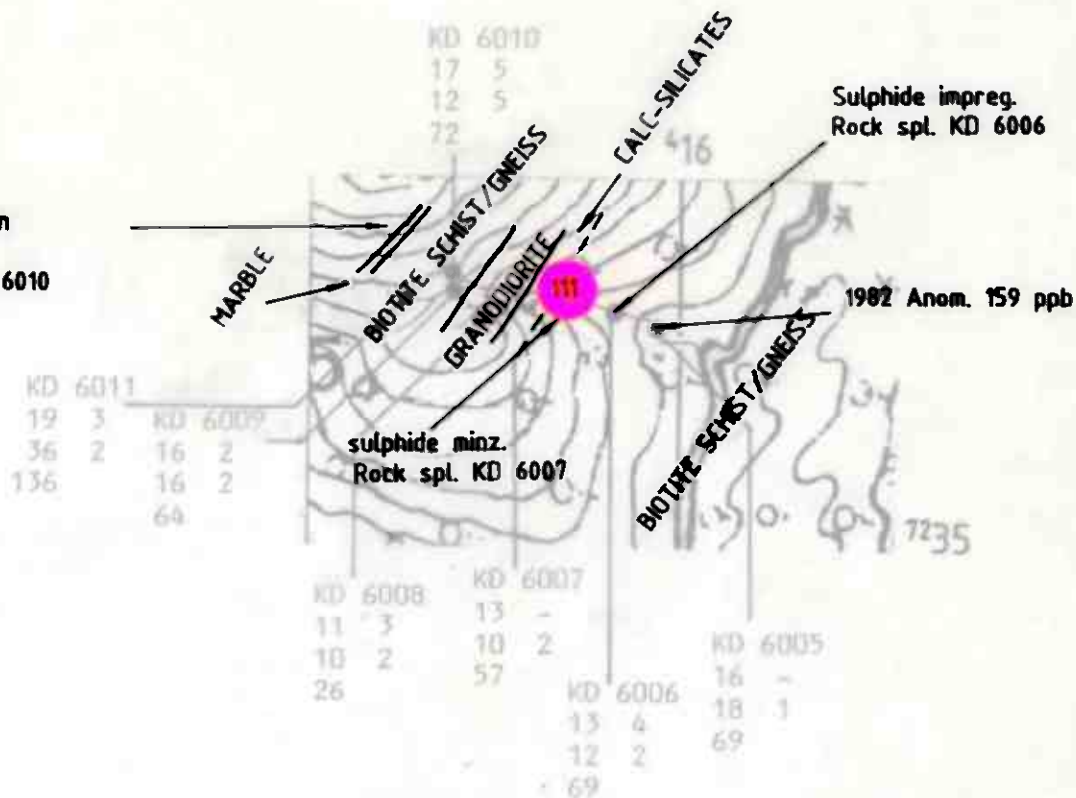
Comments:

One high range gold anomaly detected. Rock samples KD 6010, 6006 had 27 and 23 ppb detectable gold respectively.

Recommendations for further follow up:

Detailed geology and rock sampling.

sulfide in
carbonates
rock spl. KD 6010



stratolund shearzone!

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 144 HOLMVATN

Scale 1:20.000

144 HOLMVATN

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Holmtjern II No:115 Size:1.0 km²

Claim location:Map sheet 1825 II Majaklumpen

 :Air Photo 25-4 15

 :Oke Kart DN 168/3

Pegged:Yes No--Partly Claim retained: yes /No

Stream length: 1.0km Drainage area:0.5 km²

Original sample point(2 ppb Au) resampled:YesNo

Follow up team: GT/OK Duration:1.0 day

No.s.of follow up samples: KD 6012 - KD 6021

Description of drainage system:

Stream starts from a snowfield, and continues in a 15 m wide canyon. After passing a snow tunnel, the stream descends via a waterfall into a bowl-shaped valley, and proceeds through a delta into the main stream.

Regional Geology:

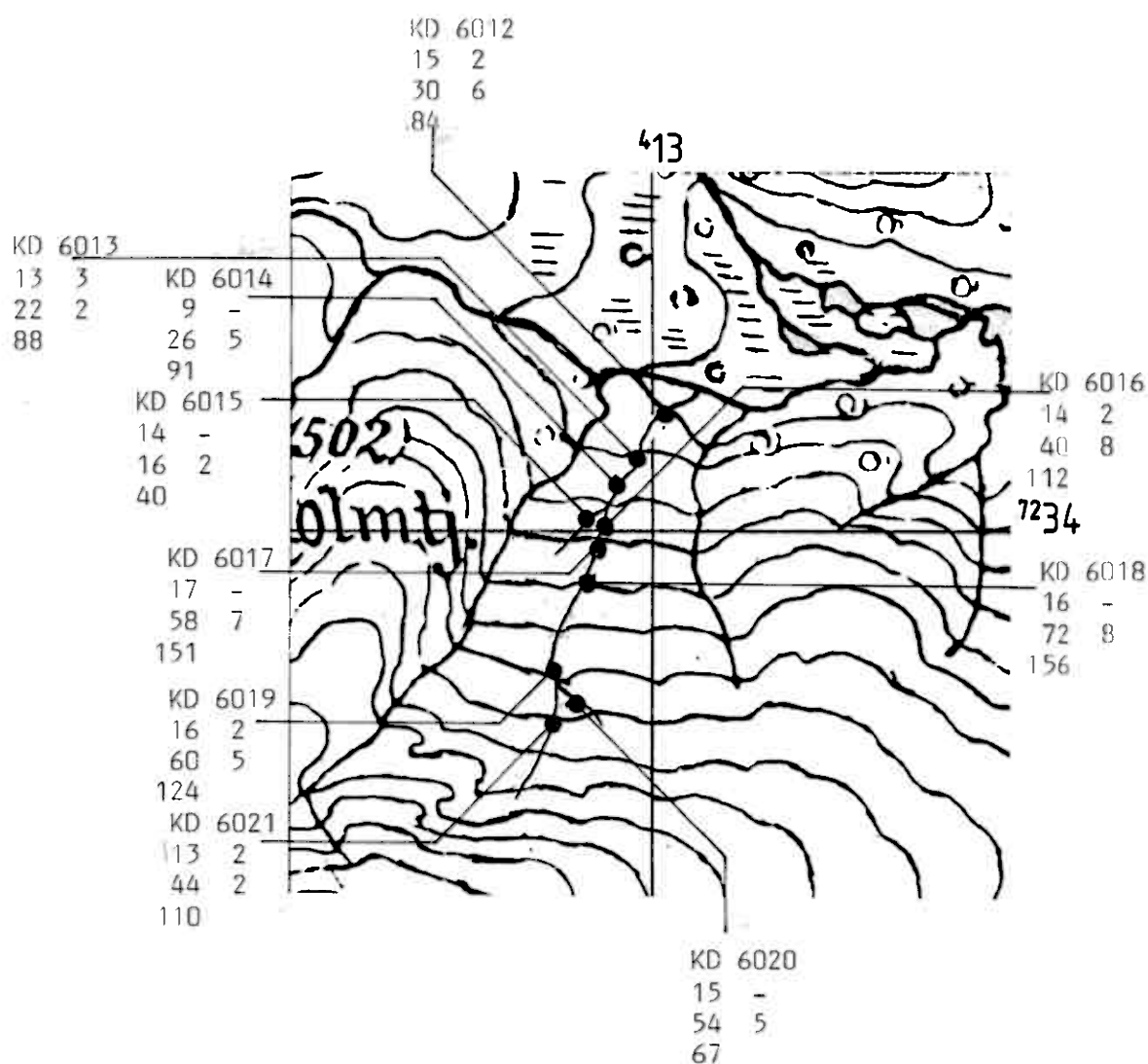
Predominant lithology is biotite gneiss, porphyritic in places. This biotite gneiss is in contact with biotite schist in the lower part of the stream and with granodiorite in the upper section of the creek. At sample point KD 6018 (along canyon) the stream follows the contact between the granodiorite in the east and the porphyritic biotite gneiss in the west. Rafts of metasediments (marbles) were observed in the upper section, whereas in the lower parts acidic veining in cm- and dm scale is common. At sample point KD 6016, a 0,6 m wide, rusty weathering horizon, with minor amounts of a specularite like mineral occurs. Vesuvianite bearing skarns were observed near the contacts to marbles. A few stilbite bearing pebbles and boulders were detected along the stream.

Comments:

No gold anomalies detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 115 HOLMTJERN II
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Holmtjern I No:114 Size:0.25 km²

Claim location:Map sheet 1825 II Majaklumpen

:Air Photo 23-4 15

:Okø Kart

Pegged:Yes No-Partly Claim retained: yes /No

Stream length: 0.5km Drainage area:0.25 km²

Original sample point(7 ppb Au) resampled:YesNo

Follow up team: KB/KA Duration:1.0 days

Nos.of follow up samples: KD 5001 - KD 5002

Description of drainage system:

Small stream of one meter width runs along a canyon, probably defining a fault. Most of the stream is snow covered, no tributaries seen.

Regional Geology:

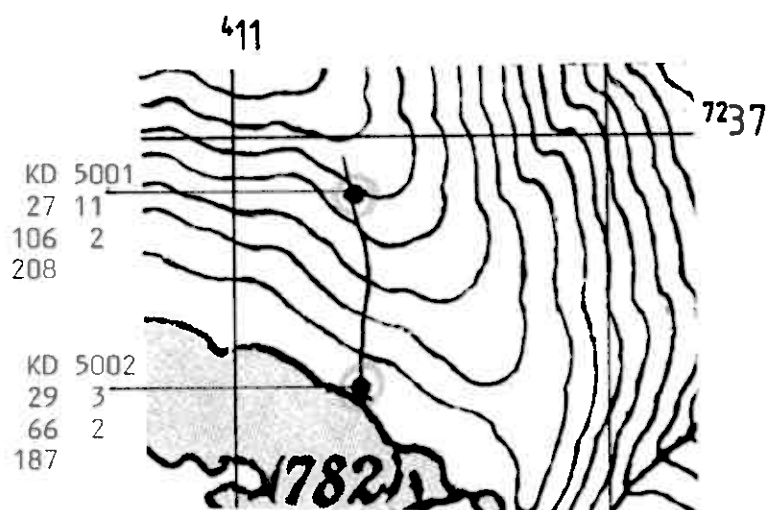
Predominant lithology is biotite gneiss. Local depressions are underlain by marbles and other metasediments. The contacts between the gneisses and the marble horizons are characterized by abundant skarns. Along the NW-shore of the lake intense Quartz veining is observable. These veins reach up to 4m in width.

Comments:

No gold anomalies detected.

Recommendations for further follow up:

None.



high Pb-Zn

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 114 HOLMTJERN I
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Maastjern No:143 Size:0.5 km²

Claim location:Map sheet 1825 II Majaklumpen/

:Air Photo 25-4-14/

:Okø Kart DN 167/1

Pegged:YesNo--Partly Claim retained: yes /No

Stream length: 0.5km Drainage area:0.2 km²

Original sample point:(17 ppb Au) resampled:YesNo

Follow up team: GT/OK Duration:1.0 day

Nos. of follow up samples: KD 6001 - KD 6004

Description of drainage system:

The stream emerges from a snowfield and descends mainly over bare rock, via rapids and waterfalls into the Maastjern. In the lower parts of the stream system some smaller moraines occur. Vegetation is generally sparse.

Regional Geology:

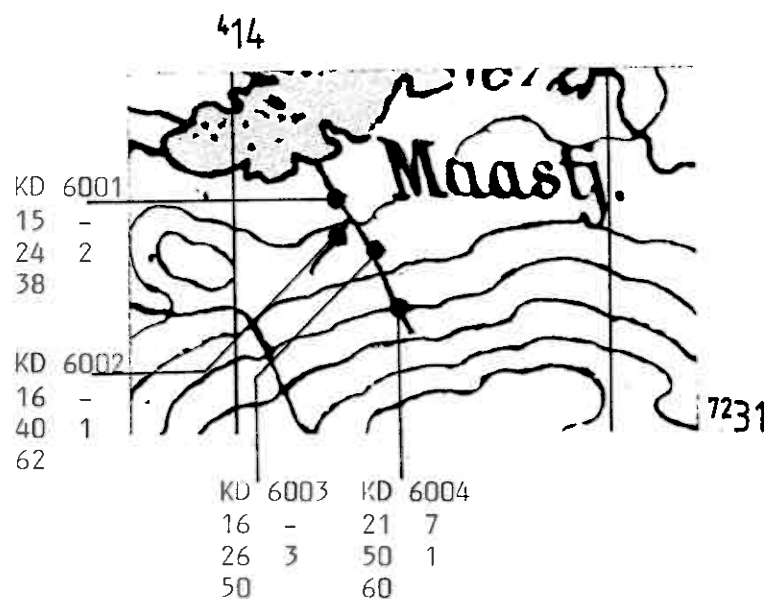
The area is dominated by biotite gneiss with some acidic veining in dm- and cm-scale. Above sample point KD 6004 the geology is more varied with granodiorite, biotite schist/gneiss and acidic veining/stockwork in dm-scale. Garnets were observed in the biotite gneiss, as well as thin rusty layers of a darker rock type with minor amounts of sulfides. Boulders of serpentinite in dm-size were found in the entire catchment area.

Comments:

No gold anomaly detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 143 MAASTJERN
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kalkklavdalen II No:135 Size:1.5 km²

Claim location:Map sheet 1825 II Majaklumpen

Air Photo 25-4-14/

Oko Kart

Pegged:Yes No--Partly Claim retained: yes /No

Stream length: 1.5km Drainage area:3.0 km²

Original sample point(83 ppb Au) resampled:YesNo

Follow up team: CR/AK Duration:1.0 day

Nos.of follow up samples: KD 8001 - KD 8010

Description of drainage system:

Main stream ,trending east - west branches into several tributaries,all of which were sampled.Streams generally emerge from snowfields and run over bare rock.Overburden is thin or absent,a little till on higher altitudes is believed to be of local derivation.

Regional Geology:

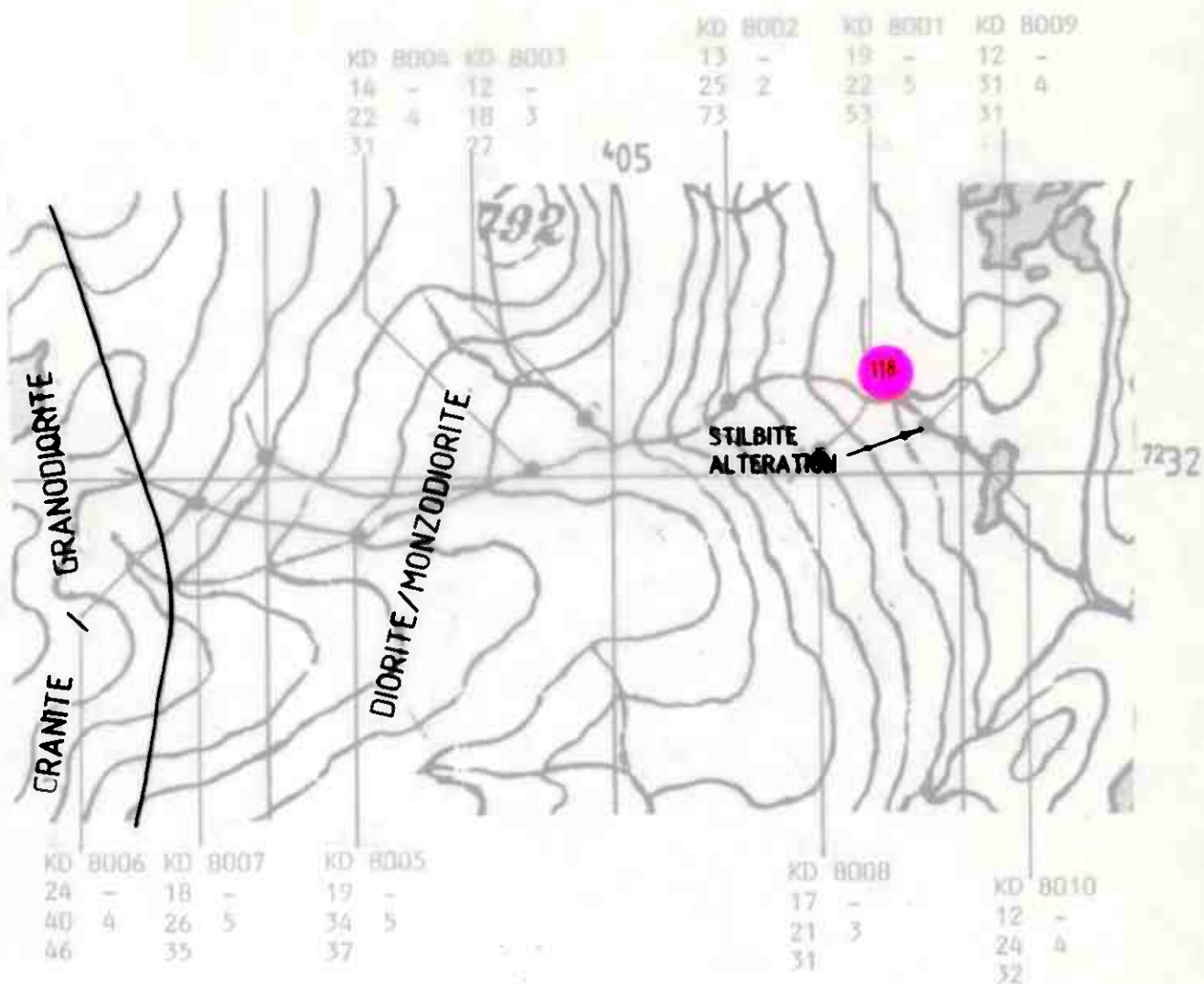
The area is dominated by a coarse grained light diorite.Pegmatoid veining with up to 0.6m width is common.These pegmatoids exhibit a zonation with coarse grained quartz in the center and feldspar towards the margin of the vein.In the gorge,followed by the main stream a fault was detected with stilbite and chlorite alteration.Feldspars are usually reddened along these low temperature alterations.

Comments:

One high range gold anomaly detected.

Recommendations for further follow up:

None



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 135 KALKLAVDALEN II
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1988

Claim Name: Kalklavdalen V No:138 Size:1.0 km²

Claim location:Map sheet 1825 II Majaklumpen/

!Air Photo 25-4-15/

!Oko Kart

Pegged:Yes No-Partly Claim retained: yes /No

Stream length: 3.0km Drainage area:3.0 km²

Original sample point(4 ppb Au) resampled:YesNo

Follow up team: AS/JT Duration:0.5 day

No. of follow up samples: KD 3001 - KD 3005

Description of drainage system:

Main stream runs along a deep scar, parallel the regional foliation. Sediment mainly composed of sand-gravel, derived from eroded intrusives, monzonites. N.B. the stream was sampled by mistake, however the samples collected are believed to be representative for the area and the alluvial deposits.

Regional Geology:

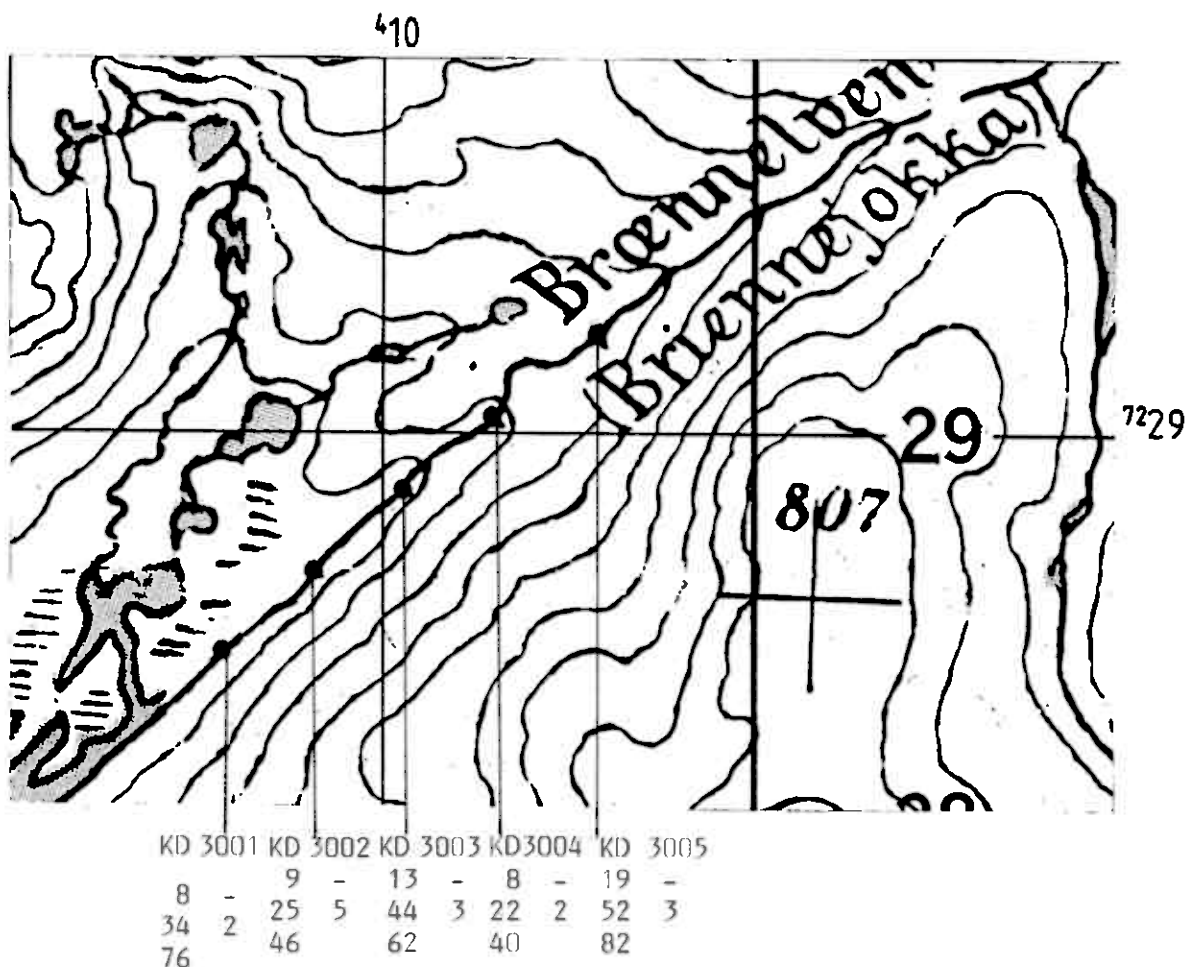
The area is dominated by a medium-coarse grained equigranular monzonite. This intrusion has suffered low temperature alteration, recognizable through irregular cracks and fissures filled with stilbite. The intrusion is bordered by biotite-hornblende schists and garnet-diopside skarn.

Comments:

No gold anomalies detected.

Recommendations for further follow up:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name: 138 KALKLAVDALEN V
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kalklavdalen III No:136 Size:0.75 km²

Claim location:Map sheet 1825 II Majaklumpen/

:Air Photo 25-4-14/

:Oko Kart DN 168/1 DN 168/1

Pegged:Yes No--Partly Claim retained: yes /No

Stream length: 1.5km Drainage area:2.0 km²

Original sample point(68 ppb Au) resampled:YesNo

Follow up team: KB/KA Duration:1.0 day

Nos. of follow up samples: KD 5003 - KD 5012

Description of drainage system:

This entire stream system is not shown on the old 1:50 000 map sheet Mayaklumpen. Except for the lower part, the stream runs over bare rock in a succession of small falls. From sample point 5003 until 5005 the stream follows in NE-SW direction the contact between a diorite in the east and a gneiss in the west. the higher parts of the stream branches into several tributaries, which follow the N-S, E-W orientated jointing.

Regional Geology: The claim block is built up from equal amounts of monzodiorite and dioritic gneiss. The monzodiorite is described as a fine-medium grained, grey rock consisting of white feldspar, quartz and biotite. Porphyritic plagioclase crystals may reach up to 3-4 cm. The dioritic gneiss consists of white feldspar, minor quartz, biotite and garnet. The gneiss contains amphibolitic xenolith and pegmatoid veining. A skarn zone of 10 meters width, consisting of layers of marble and amphibolite with bands of diopside and garnets was observed in the upper, northernmost stream section.

Comments:

One middle range gold anomaly detected in area with 137 Kalklavdalen IV.

Recommendations for further follow up:

None

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Kalklavdalen IV No:137 Size:1.25 km²

Claim location:Map sheet 1825 II Majaklumpen/

:Air Photo 25-4-14/

:Oko Kart DN 168/2

Pegged:Yes No--Perty Claim retained: yes /No

Stream length: 1.5km Drainage area:2.5 km²

Original sample point(GB opp Au) resampled:YesNo

Follow up team: KB/KA Duration:1.0 days

Nos.of follow up samples: KD 5013 - KD 5019

Description of drainage system:

A mainstream and three tributaries were sampled. The mainstream runs mostly over bedrock, and is therefore irregular in width and depth. Generally shallow and up to 5 meters wide forms the stream occasionally little ponds and lakes. The three tributaries, as well as the mainstream follow the orthogonal N-S, E-W jointing.

Regional Geology:

Main lithology is gneissose diorite and monzodiorite. In the east of the claim contact to granite. A pegmatitic quartz-vein with chalcopyrite mineralization (rock sample 0300 KD 5001) was found in tributary 1, which follows a N-S trending fault. Further upstream occurs a 10 meter wide mylonite?/shear zone where rock sample 0300 KD 5002 was taken.

Comments:

One middle range gold anomaly detected in area with 136 Kalklavdalen III.

Recommendations for further follow up:

None.

This is a topographic map showing a mountainous area with contour lines. A grid is overlaid on the map. A yellow circle with the number 80 is highlighted. Other elevation points are marked with numbers in parentheses: 979, 868, 788, 692, 572, 707, 625, 681, and 545. Grid coordinates 05, 06, 07, 08, and 09 are visible. The map is labeled 'Ouren' and 'Bij Jij'.

KD	5012
7	-
14	3
86	

BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name : 136+137

Scale 1:20.000

KALKLAVDALEN III+IV

BINDAL

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Bangstad No 39 Size: 2.0 km²

Claim location: Map sheet 1825 III Bindal

Air Photo

Oko Kart

Pegged: Yes No Pecoty Claim retained: Yes No

Stream length 1.5km Drainage area: 1.0 km²

Original sample point (32 ppb Au) resampled: Yes No

Follow up team: GR/AK Duration: 0.5 day

No. of follow up samples : BS 8001 - BS 8004

Description of drainage system:

Stream rises in corrie with talus slopes, descending through forest with deep overburden, partly through a minor cleft/boulder area, thence via a hilly farmland area (clay overburden) to the fjord.

Geology:

The headwater areas are composed of diorite (in talus) and heavily skarned marbles, the lower valley being diorite which is pervasively veined by quartz-feldspar. Pyrite and pyrrhotite were observed in both veins and host.

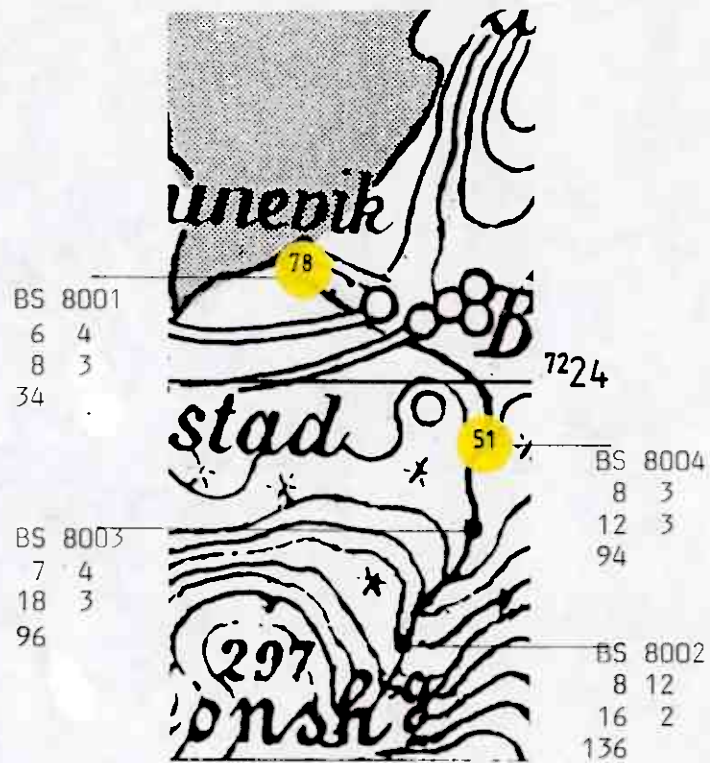
Comments:

Two mid-range Au anomalies detected. Not uninteresting As values.

Recommendations:

Single relatively isolated claim is dropped as it is not pegged but the area may be included during follow-up of the Sausvatn-Sobergallien belt north of Tosenfjord.

383



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 39 BANGSTAD
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Bokestad No36 Size:0.5 km²

Claim location:Map sheet 1825 III Bindal

:Air Photo

:Dko Kart DF 168 II

Pegged:Yes No Partly Claim retained: Yes No

Stream length 0.5 km Drainage area:0.5 km²

Original sample point (92ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:0.5day

Nos.of follow up sample : BD 5001 - BD 5003

Description of drainage system:

The stream is about 2m wide and has no tributaries. It starts in a lake north of Bokestad and flows mainly through till and in a farmed area. Near the lake there are outcrops of mica-schist.

Geology:

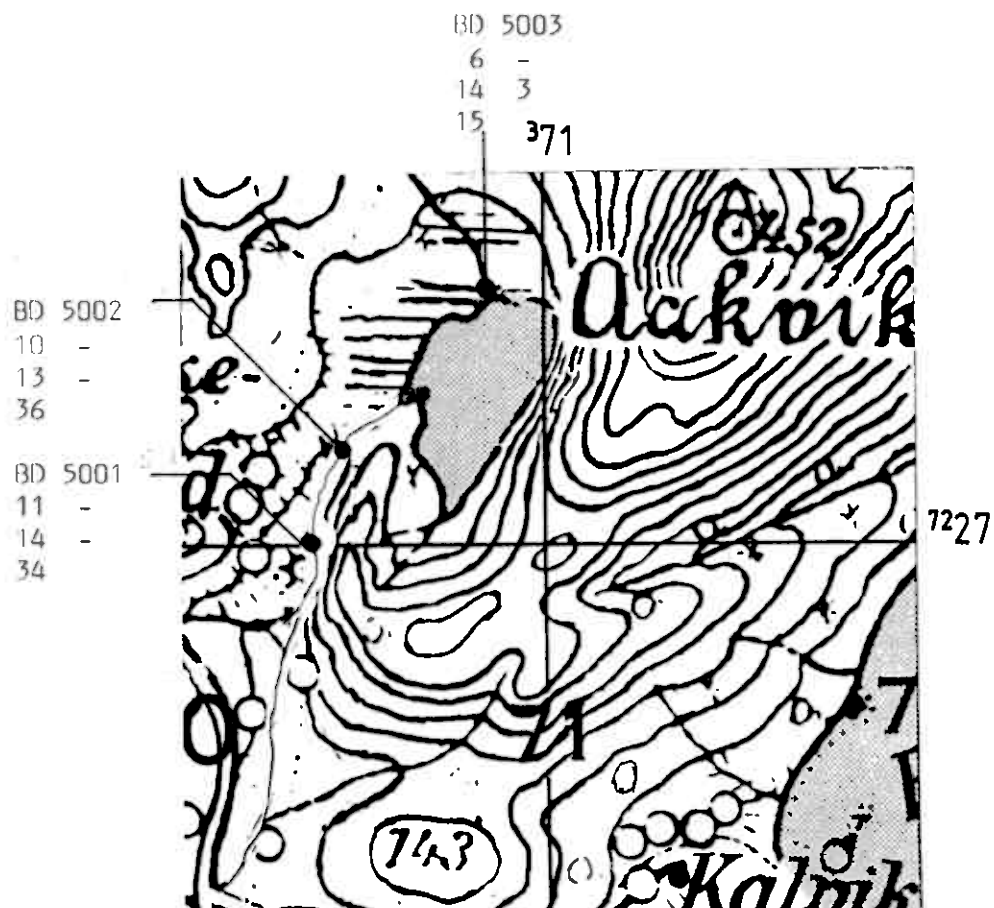
Mica-schist with till overburden. In the stream one finds several boulders of a granitic gneiss.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name : 36 BØKESTAD
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Tosenfjord No: 5 Size: 1.0 km²

Claim location: Map sheet 1825 III Bindal

 :Air Photo

 :Okø Kart

Pegged: Yes-No Partly Claim retained: Yes No

Stream length: 1.0km Drainage area: 1.0 km²

Original sample point (ppb Au) resampled: Yes No

Follow up team: CR/AK Duration: 0.25day

Nos. of follow up sample : TF 8001 - TF 8002

Description of drainage system:

Two streams sampled, draining a steep hillside. The stream of sample TF 8002 flows through an area of dense vegetation and moderate overburden, while that of TF 8001 flows through clefts, talus and karst caverns.

Geology:

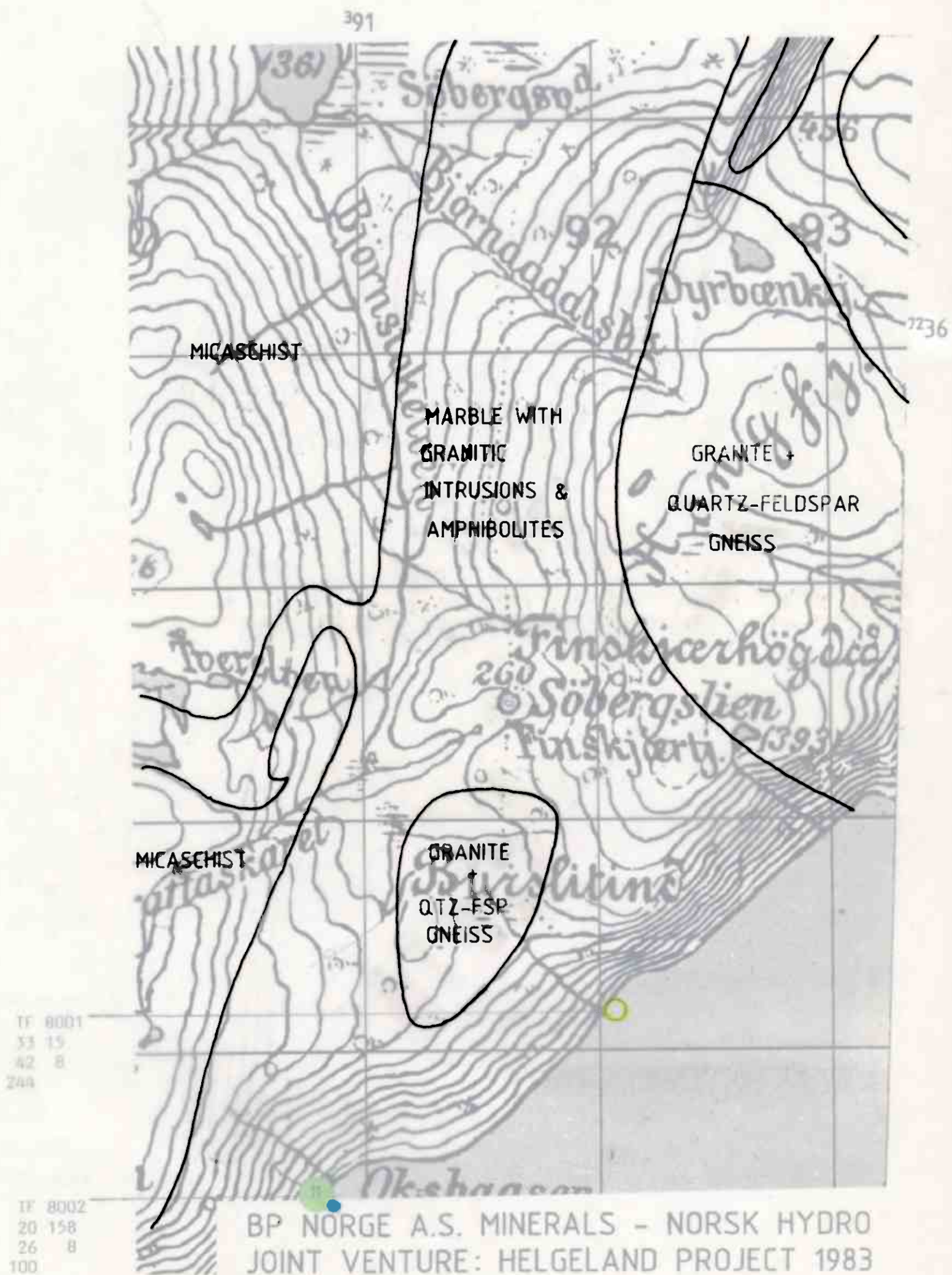
The immediate drainage area consists of marble, intruded by quartz diorite.

Comments:

One low-range Au anomaly. High As and W in both streams.

Recommendations:

To be included in follow-up of Sausvatn-Sobergelien belt north of Tosenfjord - detailed geology and litho geochemistry, possible deep overburden sampling.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS
Claim block/No./Name: 5 TOSENFJORD
Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Oksningen No: 153 Size: 1.0 km²

Claim location: Map sheet 1825 III Bindal

 : Air Photo

 : Oko Kart DG 186 IV

Regged: Yes No Parity Claim retained: Yes No

Stream length 0.7km Drainage area: 0.5 km²

Original sample point(5 ppb Au) resampled: Yes No

Follow up team: CR/AK Duration: 0.25day

No. of follow up samples : OK B001 - OK08002

Description of drainage system:

Source of system in a swamp (filled-up lake), the stream flowing gently through forest to farmland which extends to the coast.

Geology:

Overwhelmingly deep drift cover (mainly post-glacial clay). Rare scattered exposures of granodiorite.

Comments:

One low-range Au anomaly detected.

Recommendations:

None.

LEKA

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Gutvik No 152 Size: 0.25 km²

Claim location: Map sheet 1725 II Solstad

:Air Photo

:Okø Kart

Pegged: Yes-No---Partly Claim retained: Yes No

Stream length 1.0km Drainage area: 2.0 km²

Original sample point (7 ppb Au) resampled: Yes No

Follow up team: KB/KA Duration: 0.5day

Nos. of follow up sample : GV 5001 - GV 5002

Description of drainage system:

The stream drains the N Gutvikvatnet to the sea. It is about 3 m wide and flows quietly, sometimes meandering through farmland.

Geology:

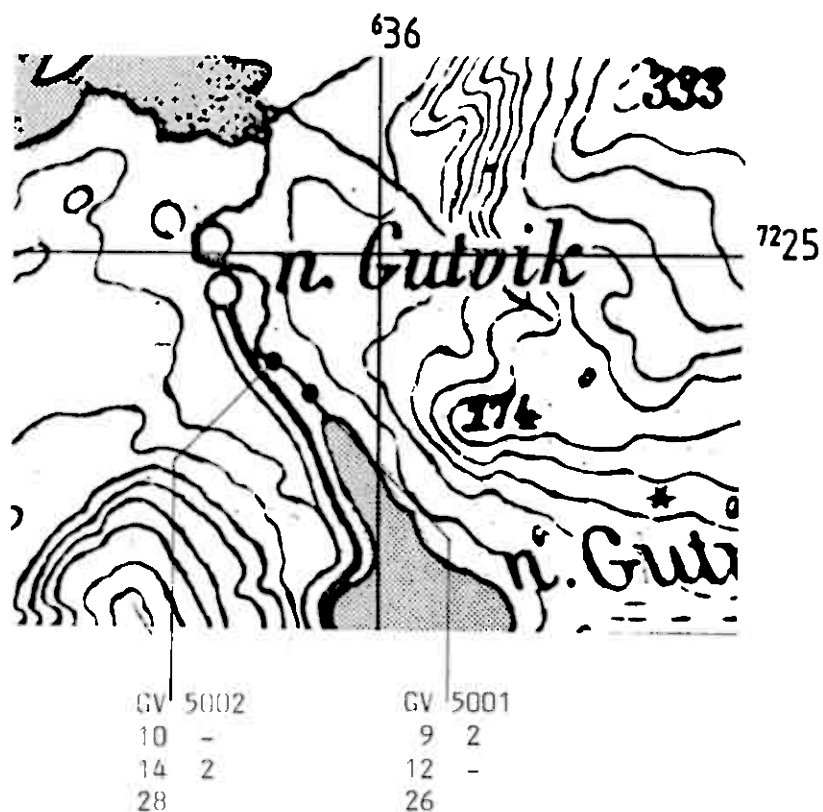
No exposure, thick cover of till and clay overburden.

Comments:

No Au anomalies detected.

Recommendations:

None.



BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 152 GUTVIK
 Scale 1:20.000

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Rosvik No151 Size: 1.75 km²

Claim location: Map sheet 1725 II Solstad

:Air Photo

:Oko Kart

Perched: Yes-No--Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 3.0 km²

Original sample points (10 ppb Au) resampled: Yes-No

Follow up team: KA/KE Duration: 1.0 day

Nos. of follow up samples : RK 5001 - RK 5017

Description of drainage system:

The stream is 2-3m wide and 0.3-0.4 m deep for the first 800m, where it runs in a flat area. The rest of the stream alternates between a steeply plunging and a meandering behaviour. The lowest part of the stream meanders through post-glacial marine sediments!

Geology:

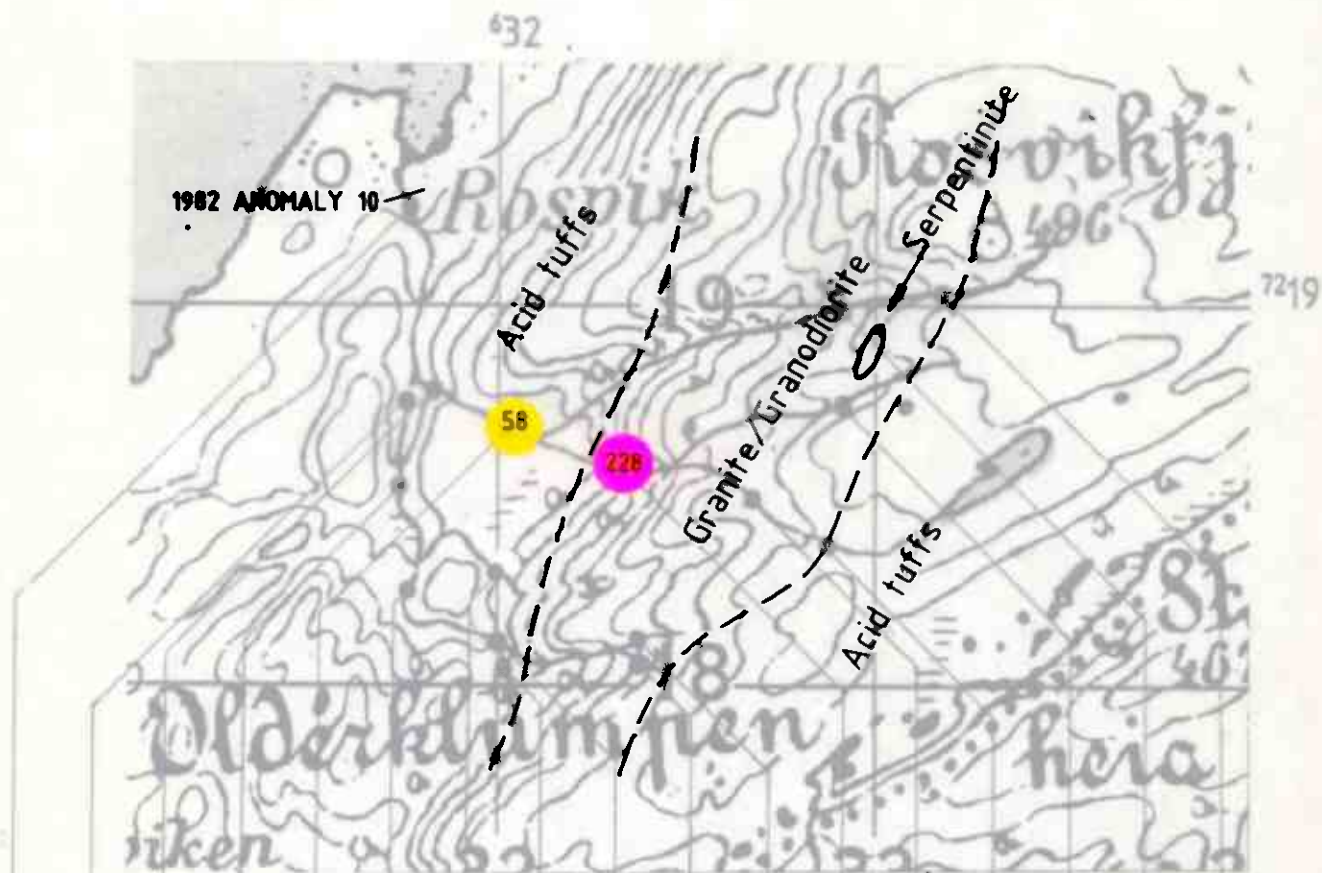
Granite and granodiorite intruded into a fine-grained laminated, pink feldspathic lithology (possibly volcanic) and metasediments (mica schist). A serpentinite pod also occurs.

Comments:

One high and one middle range gold anomaly. The geological association (acid tuffs, serpentinite, granite/granodiorite) is of interest.

Recommendations:

Detailed geological mapping and lithogeochemical sampling.



RK 5001	RK 5002	RK 5004	RK 5012	RK 5014	RK 5016	RK 5006	RK 5008	RK 5009
12 -	16 -	26 -	26 -	17 -	16 -	22 -	18 -	24 -
11 2	14 3	17 -	9 4	12 -	18 -	20 -	21 -	18 -
57	101	132	106	134	101	119	74	144
RK 5003	RK 5011	RK 5013	RK 5015	RK 5017	RK 5005	RK 5007	RK 5010	
10 -	14 -	19 -	25 -	16 -	25 -	11 -	24 -	
15 4	9 4	9 1	9 8	17 3	17 -	23 -	13 -	
89	100	123	94	91	126	70	149	

BP NORGE A.S. MINERALS - NORSK HYDRO
 JOINT VENTURE: HELGELAND PROJECT 1983
 FOLLOW-UP RESULTS
 Claim block/No./Name : 151 ROSVIK
 Scale 1:20.000

151 ROSVIK

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name:Kongsmoen No 168 Size:1.0 km²

Claim location:Map sheet 1825 IV Kongsmoen

:Air Photo

:Oko Kart

Pegged:Yes No Partly Claim retained: Yes No

Stream length km Drainage area: km²

Original sample point (ppb Au) resampled:Yes No

Follow up team: KB/KA Duration:1.0day

Nos.of follow up sample : KM 5001 - BD 5004

Description of drainage system:

The stream is approx 1/2m. wide and approx. 0.3m deep. Both the main stream and the tributary terminates in talus lying below steep slope - the sediment seems quite immature.

Geology:

The main lithology is a gneiss of granitic composition - but of varying appearance, from granitic to a typical augen-gneiss with augens consisting of white feldspar. Granitic boulders with epidote alteration have been found.

Comments:

No Au anomalies detected.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Huseby No154 Size: 0.5 km²

Claim location: Map sheet 1325 III Leka

Air Photo NLF 8001, 25-1 (frames 11-12)

25-2 (frames 04-05)

Okø Kart

Pegged: Yes No --- Partly Claim retained: Yes No

Stream length 0.5km Drainage area: 1.0 km²

Original sample point (302 ppb Au) resampled: Yes No

Follow up team: HS/IF Duration: 0.5 day

Nos. of follow up sample : LE 0001 - LE 0004

Description of drainage system:

Sources in two drainage ditches in pastureland with post-glacial beach deposits, flowing over moderate slope in coarse talus down to pastureland with post-glacial sand and clay to original sample point.

Geology:

Amphibolites, tending to gabbroic textures exposed near stream in mid-coarse. Minor small pockets of pyrrhotite impregnation.

Comments:

Two high-range Au anomalies detected.

Recommendations:

Collection of lithogeochemical samples with follow-up of 155 Lekatinden II, 157 Lekatinden I and 156 Leketinden.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Traelnes No:149 Size: 0.5 km²

Claim location: Map sheet 1725 I Bronnoysund

 : Air Photo

 : Oko Kart

Reaged: Yes No Partly Claim retained: Yes No

Stream length 3.0km Drainage area: (minute) km²

Original sample point (82ppb Au) resampled: Yes No

Follow up team: AS/KA Duration: (45 min)

Nos. of follow up sample : BK 3089

Description of drainage system:

Original sample point in a bog-hole fed by muddy seepage.

Geology:

No exposure.

Comments:

None.

Recommendations:

None.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: **Lekamoen No156** Size: 1.0 km²

Claim location: Map sheet 1925 III Leka

Air Photo NLF 8001, 25-1 (frames 11,12)

25-2 (frames 04,05)

Okso Kart

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 3.0km Drainage area: 1.5 km²

Original sample point (50 ppb Au) resampled: Yes No

Follow up team: HB/IF Duration: 1.0 day

Nos. of follow up sample : LE 0031 - LE 0038

Description of drainage system:

Two major tributaries: a) easternmost draining lake and descending over extensive locally derived fine talus fields and gulleys with moderate slopes/small rapids to the original anomaly point in flat farmland; b) rising beneath high cliff in boggy area, descending in braided form over talus with abundant local exposure, thence via small rapids down to farmland to join tributary a) stream sediments of local derivation.

Geology:

Headwaters of trib. a) in metagabbro/diorite, locally strongly sheared to chlorite-carbonate schist; of trib. b) in similar lithology but with abundant quartz veins. Both descend through massive to strongly sheared diorite and metagabbro.

Comments:

One high-range Au anomaly detected in headwaters of trib. b), 2 low-range Au anomalies in trib. a).

Recommendations:

See claim 155 Lekatinden II.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: Lekamoen I Nol57 Size: 1.75 km²

Claim location: Map sheet 1925 III Leka

Air Photo NLF 8001, 25-1 (frames 11,12)

25-2 (frames 04,05)

Oko Kart

Pegged: Yes No--- Partly Claim retained: Yes No

Stream length 1.5km Drainage area: 2.0 km²

Original sample point(494,9ppb Au) resampled: Yes No

Follow up team: HB/IF Duration: 1.0day

Nos. of follow up sample : LE 0014 - LE 0030

Description of drainage system:

Two separate streams a) draining to S. West, rising in two lakes and flowing entirely through valleys filled with talus of local derivation, excellent exposure; b) draining to west, rising in lake flowing over high cliff directly down to coastal plain.

Geology:

Of stream a): flows parallel and close to contact of serpentinite with metagabbro, being in the former. Stream material locally abundant in asbestiform minerals, talc. Of stream b): rises and flows entirely in variously coloured serpentinites, locally with thin chromite impregnation bands.

Comments:

2 high-range, 1-med range and 2 low-range Au anomalies in stream a); 1 medium-range Au anomaly in stream b).

Recommendations:

See 155 Lekatinden II.

ANOMALY FOLLOW UP HELGELAND PROJECT 1983

Claim Name: **Lekatinden II** No **155** Size: 0.5 km²

Claim location: Map sheet 1925 III Leka

:Air Photo NLF 8001, 25-1 (frames 11-12)

25-2 (frames 04-05)

:Oko Kart

Pegged: Yes No---Partly Claim retained: Yes No

Stream length 2.0km Drainage area: 1.5 km²

Original sample point (49 ppb Au) resampled: Yes No

Follow up team: HB/IF Duration: 0.5day

Nos. of follow up sample : LE 0005 - LE 0013

Description of drainage system:

Two major tributaries rising in mod. sloped semi-plateau with excellent exposure and numerous shallow gulleys, descent via steep waterfalls not uncommonly following bedrock fractures to a flat semi-bog area with no exposures. Thence through bedrock gulleys to the original anomaly point.

Geology:

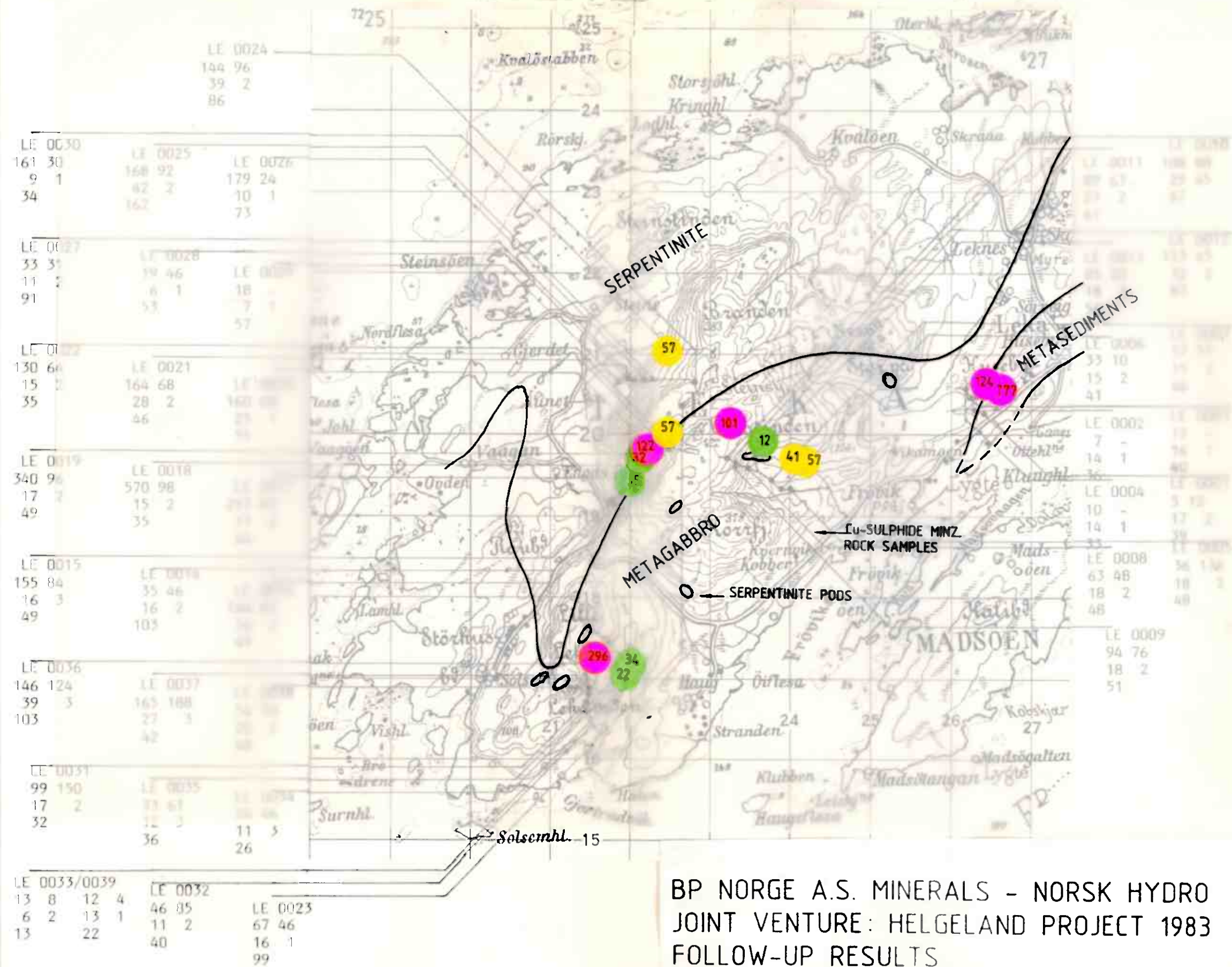
Headwaters in metagabbro with strongly folded chloritic shear-zones. This is cut by sub-vertical fractures commonly containing minor traces of sulphide mineralization. Metagabbro and diorite near original anomaly point.

Comments:

One high-range, 2 med-range and 1 low-range anomaly detected.

Recommendations:

To be followed-up by lithogeochemical sampling to determine the claims 154 Huseby, 156 Lekamoen and 157 Lekatinden I.



BP NORGE A.S. MINERALS - NORSK HYDRO
JOINT VENTURE: HELGELAND PROJECT 1983
FOLLOW-UP RESULTS

Claim block/No./Name: 154-157 HUSEBY,

Scale: 1:50,000

LEKATINDEN II LEKAMOEN 8