

4455

G E O L O G I C A L   R E P O R T

on the

COLT RESOURCES LTD PROPERTY

Near Lillooet, B.C.

KAMLOOPS, MINING DIVISION

by

MINSTEAD EXPLORATIONS LTD (N.P.L.)

Edward Asano, B.Sc., F.G.A.C.

August 15th, 1972.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 4455 MAP

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Report on the Geology of  
COLT RESOURCES LTD.,  
near Lillooet, B.C.,  
KAMLOOPS MINING DIVISION

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E. Asano, B.Sc., F.G.A.C.,  
Consulting Geologist  
Minstead Explorations Ltd., (N.P.L.)  
Vancouver, B.C.


Directors  
Colt Resources Ltd., (N.P.L.)  
711- 475 Howe Street  
Vancouver, B.C.

Dear Sirs:

I am pleased to submit for your information the results of my geological mapping survey of the Colt Resources Ltd. property of 58 claims carried out over August 5th - August 9th, 1972, and the subsequent review of the available information. My geological field survey was carried out by traverses over the area. I was assisted by Mr. William Hamilton, a principal of Minstead Explorations Ltd., who had previously worked on the property and was responsible for much of the geophysical and geochemical surveys.

The objective of the survey was to provide a geological interpretation of the area and mapping was carried out on a scale of 1" : 525' which would correlate with the already available geochemical and geophysical maps of 1" : 400' but reduced to 1" : 525' after printing. The mapping would help in better correlating the present material on hand to determine drill targets for future programs.

Yours truly,

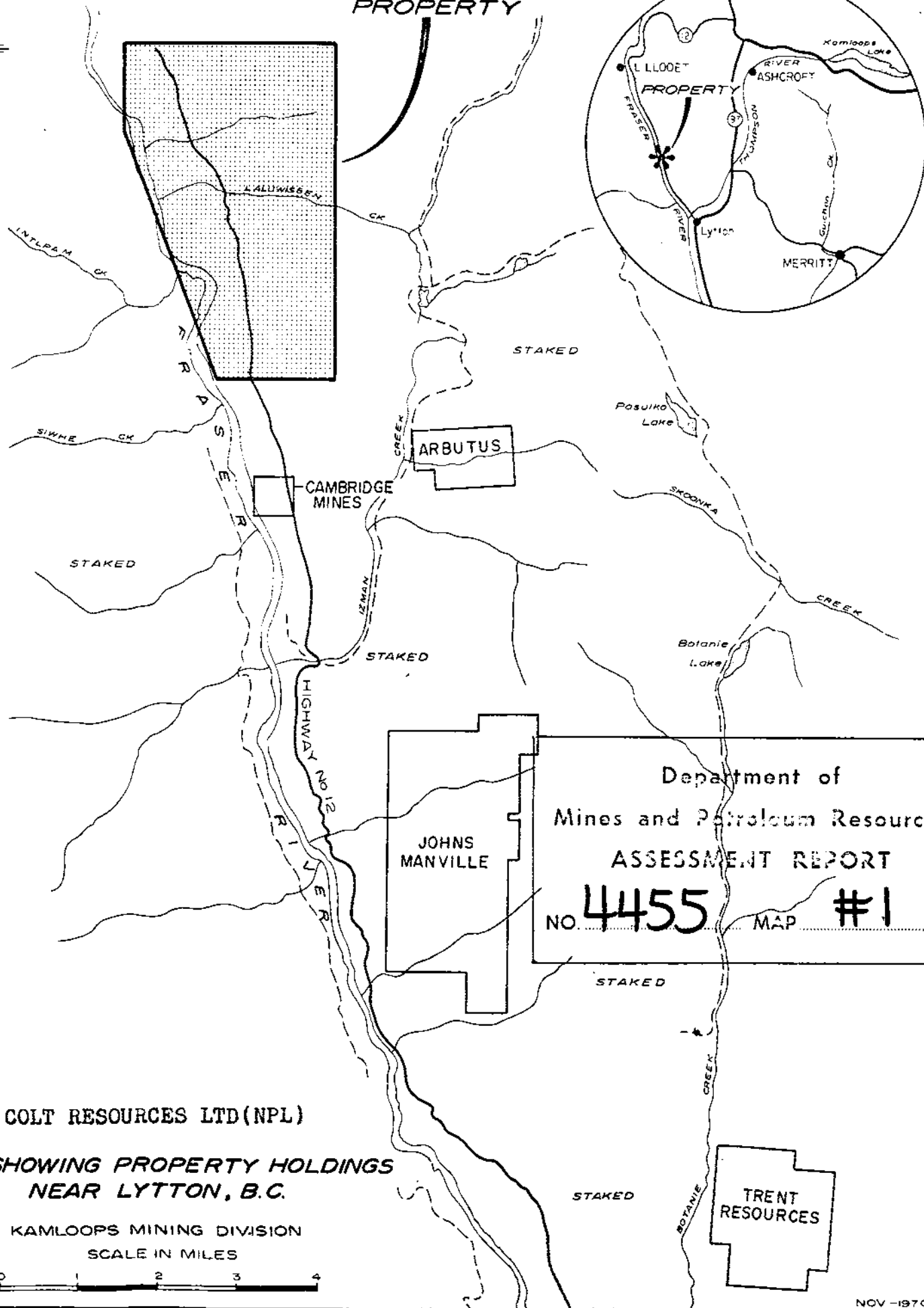
  
Edward Asano, B.Sc., F.G.A.C.



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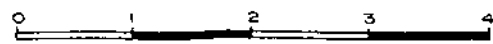
PROPERTY



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **4455** MAP #1

COLT RESOURCES LTD(NPL)  
MAP SHOWING PROPERTY HOLDINGS  
NEAR LYTTON, B.C.

KAMLOOPS MINING DIVISION  
SCALE IN MILES





BLOCK 'A'

J4	J2	D41	D43	D45	D46	D47
J3	J1	D42	D44	D29	D30	D33
J10	J8	J6	D40	D27	D28	D32
J9	J7	J5	D39	D23	D24	D31

J11	D21	D22	D25
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Ranch

D19	D20	D26
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D17	D18	D34
-----	-----	-----

D15	D16	D35
-----	-----	-----

BLOCK 'B'

D2	D1	D13	D14	D36
D4	D3	D11	D12	D37
D6	D5	D9	D10	D38
D7	D8			

Ranch

Department of  
Mines and Petroleum Resources  
ASBESTOS  
NO. 4455 MAP # 2

COLT RESOURCES LTD(NPL)

CLAIM LOCATION MAP

LILLOOET AREA  
KAMLOOPS M.D., B.C.  
SCALE

PROPERTY.

The company owns 58 claims staked by right of location in the Kamloops Mining Division about 20 miles south of Lillooet B.C.

<u>Name.</u>	<u>Record Numbers.</u>	<u>Expiry Date.</u>
Diana 1 - 20 incl:	90063 - 90082	July 13, 1973.
Diana 21 - 38 incl:	90482 - 90499	July 31, 1973.
Diana 39 - 47 incl:	90770 - 90778	August 20, 1973.
Judy 1 - 11 incl:	93171 - 93181	November 10 1973.

LOCATION.

The claims lie to the east of the Fraser River about halfway between Lytton and Lillooet on Highway no: 12. The highway passes through the western sector of the claim block and is also divided into north and south blocks by Laluwissen Creek which flows from east to west. A trail goes east - west parallel to Laluwissen Creek but is partly washed out near the eastern extremity of the claims.

ACCESS.

Access is by Highway no: 12 from either Lillooet or Lytton. There are no major logging roads transecting the property. There is an alternate route to the east side of the claims via a logging road up Izman Creek which cuts into Highway no: 12 about 13 miles to the south of the property.

TOPOGRAPHY

The elevation of Highway no: 12 varies from 1,150 feet to 1,250 feet and rises abruptly to about 5,000 feet the concordant levels of the Fountain Range. To the west, the ground drops to about 600 feet elevation on the banks of the Fraser River.

The area is forested with stands of mature pines which have not been logged. The slopes to the west have patches of scree, with intermittent stands of timber and slope grass.

There is sufficient water available from Laluwissin Creek and McGillivray Creek for drilling and light mining activities.

REGIONAL GEOLOGY.

The rocks of the area as regionally mapped by the Geological Survey of Canada (S. Duffell and K.C. McTaggart, 1952 memoir 262) are a composite of the Mount Lytton Batholith of lower cretaceous age and subsequent flows of basalt and andesitic tuffs of the Nicola Group.

The following is a table extracted from the memoir.

AGE	PARTICULARS
Lower Cretaceous	Jackass Mountain Group (17) Division C: greywacke, argillite, conglomerate, Lillooet Group(14) Argillite, volcanic conglomerate and tuffaceous sandstone.
Upper Triassic.	Nicola Group (11) Basalt and Andesite, tuff and agglomerate.
Earlier.	(7) Schist and Gneiss
Lower Cretaceous or Earlier.	Mount Lytton Batholith (2) granodiorite, quartz diorite and diorite.

LOCAL GEOLOGY.

Locally two types of rocks were encountered, the dioritic phases of the Mount Lytton Batholith and the basaltic and andesitic flows of the Nicola volcanics.

The following is a table of the rocks encountered.

Nicola	1) greenish volcanic 2) light green - grey basalt 3) dark - andesite volcanic 4) dark black - brown (contact andesite) 5) andesite porphyry
Mount Lytton Batholith	1) medium grained diorite 2) coarse grained quartz - diorite 3) feldspar porphyry  1) intermediate dykes 2) gabbro - peridotite dykes.



The west side of Block B is underlain by the Nicola Volcanic series and has been generally mapped as greenstone. There are varying degrees of epidote and chlorite alteration in the greenstones. Along the shears the chloritization manifests itself as chlorite schist. One showing has malachite and azurite along the joints of the bluffs. A small adit in the same area has much gossan and pyrite with very minor malachite and chalcopyrite. Along the shears much calcite veinlets occur. To the east of Block B, the rock gradually changes into a greenstone or andesitic porphyry. There is an increase of quartz segregations into veins and veinlets. There were no plutonic rocks encountered in the traverses on Block B.

According to the former magnetometer and geochemical survey by E.O. Chisholm P. Eng: an extensive magnetometer high and a geochemical high exist. There is some alteration in the form of epidote along joints and minor pyrite. Perhaps the sources of the anomaly lies at depth.

In Block A, the area between McCillivray Creek and Luluwissin Creek is an area of contact between the volcanics and the plutonics. The area to the west of Highway 12 is covered by perhaps 100 feet of overburden composed of glacial and fluvial fill. As one proceeds to the east up the slopes of the Fountain Range outcrops occur. Much of the high magnetometer anomalies can be attributed to a fair abundance of pyrite and the darker mafics as areas of magnetic highs coincide with patches of gossan on outcrops and in the scree. Block A is somewhat less steep as opposed to Block B and as an undulating topographic effect along slope gradients so that pockets where copper ion migrations can collect do appear.

Much of the plutonic rocks are fresh with little alteration. There are some areas of epidote, chlorite and potassium feldspar along joints and fracture planes. During the traverses carried out on Block A, most of the mapping was confined to the washout channel and Luluwissin Creek where greater exposures of outcrops were available. There appeared to be greater amounts of calcite veinlets and stringers than quartz in this area.

Geologically the area is favourable as the Maggie Mine controlled by Bethlehem is only 32 miles to the northeast and is in much the same environment.

RECOMMENDATIONS.

I am of the opinion that because of the various geochemical anomalies and magnetometer lows that better mineralization may be found at depth. I would concur with the report of Mr. E.O. Chisholm P. Eng: in his recommendations and that his program be carried out to better determine the economic potential of this property.

Because of the overburden factor, it may be more economic to diamond drill rather than bulldoze in certain areas of the property.



C E R T I F I C A T E

I, Edward Asano of the City of Vancouver, British Columbia, hereby certify

that:

- 1). I am a geologist with AN office at 315-543 Granville Street, Vancouver, British Columbia.
- 2). I am a graduate of McGill University, Montreal, Quebec with a B.Sc. (Geology), 1960.
- 3). I am a Fellow of the Geological Association of Canada.
- 4). I have no direct interest nor indirect interest in the property or the shares of Colt Resources Ltd., nor do I expect to receive any.
- 5) This report is based on my mapping carried out from August 5th - August 9th, 1972.

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Vancouver, British Columbia.

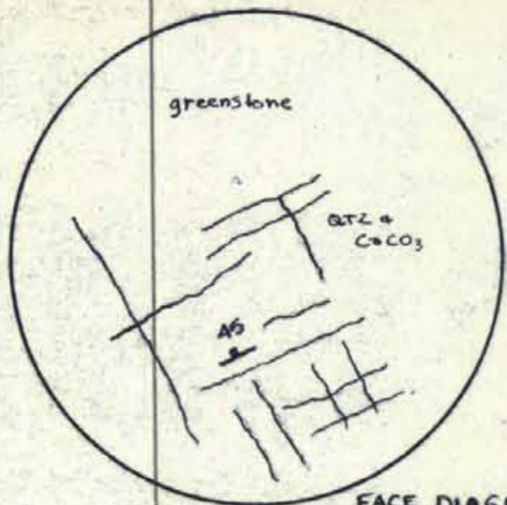
August 15th, 1972.

Edward Asano.



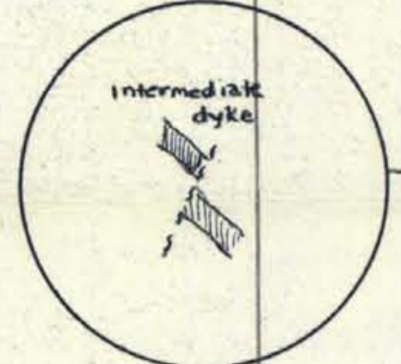




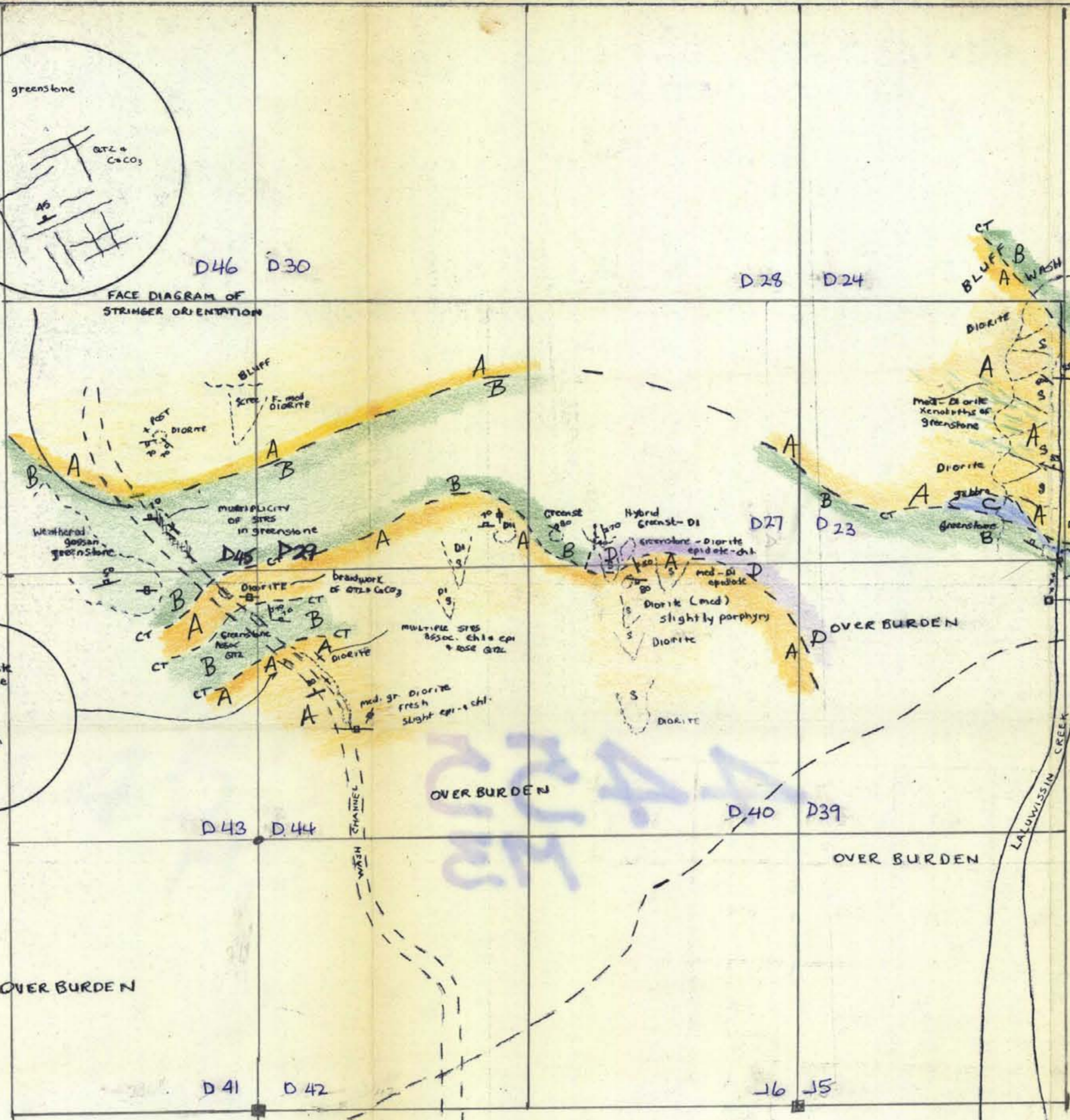


D46 D30

FACE DIAGRAM OF STRINGER ORIENTATION



Intermediate dyke



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ASSESSMENT REPORT

NO. 4455 MAP #3

## M3

COLT RESOURCES

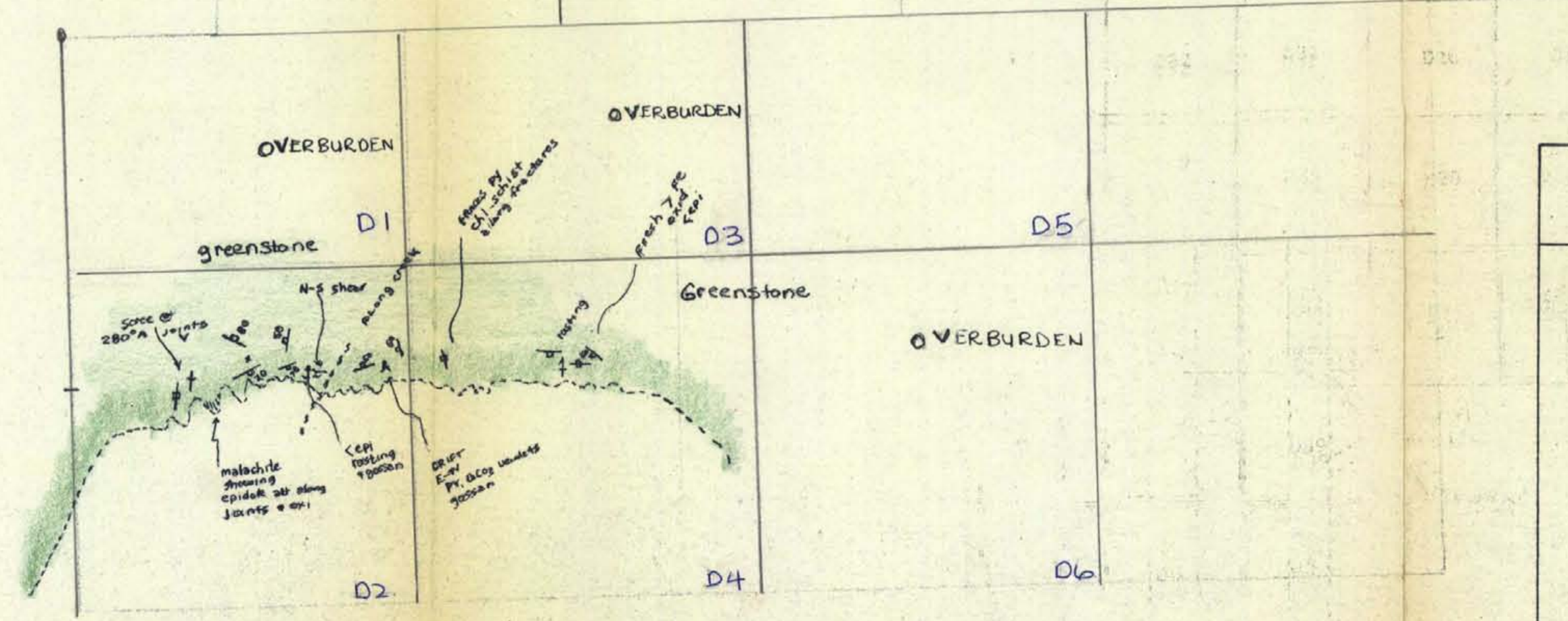
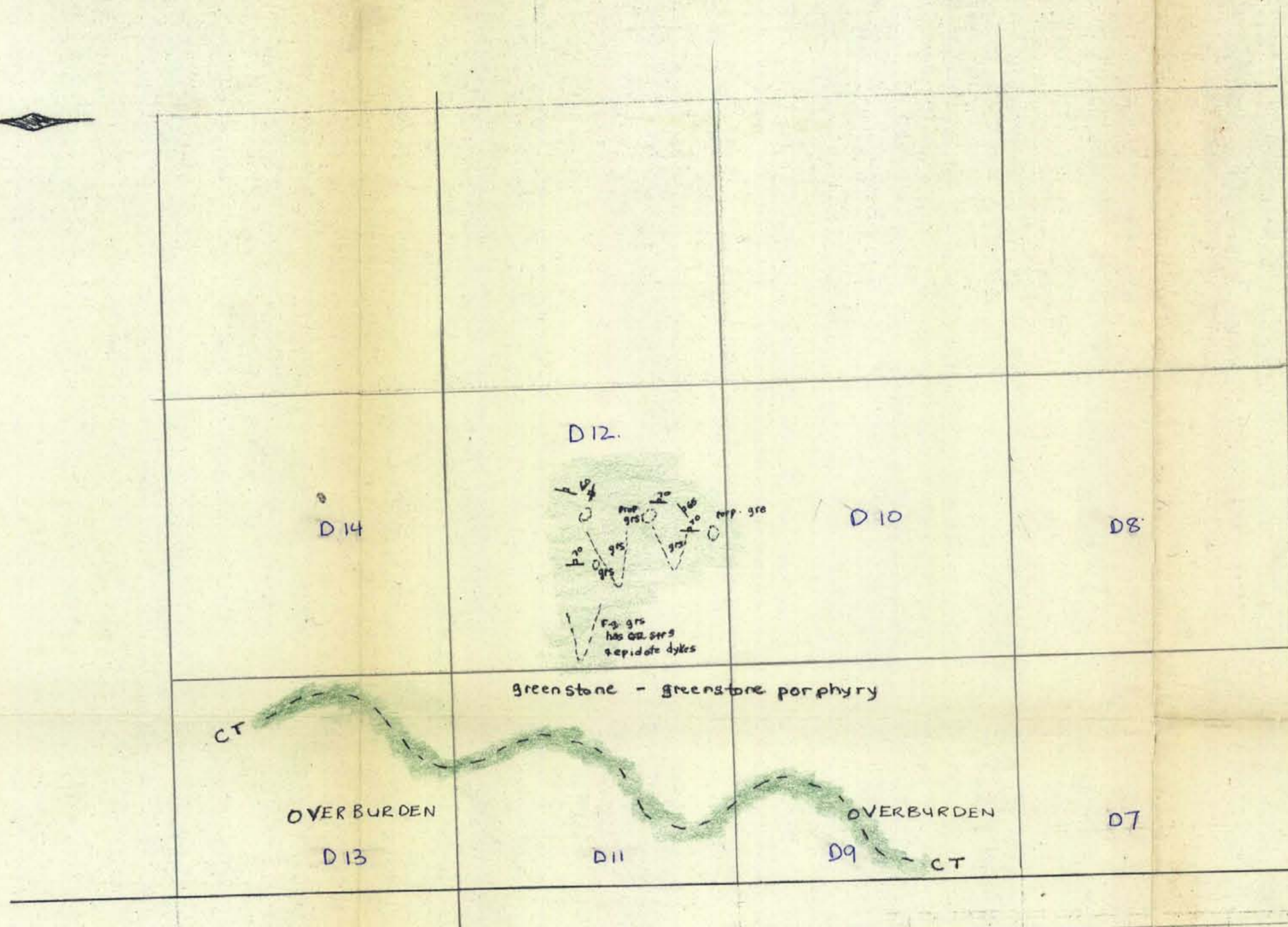
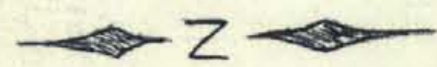
GEOLOGICAL MAPPING  
KAMLOOPS MINING DIVISION  
LILLOOET, B.C.  
BLOCK - A  
AUG, 1972 SCALE 1" = 525'

- LEGEND:
- DIORITE  A
  - VOLCANICS  B
  - GABBRO  C
  - HYBRID  D



*E. Asano*  
BY: MINSTEAD EXPLORATIONS LTD





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Mines and Petroleum Resources  
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NO. **4455** MAP **#4**

**COLT RESOURCES**

**GEOLOGICAL MAPPING**  
KAMLOOPS MINING DIVISION  
LILLOOET B.C.  
BLOCK - B  
AUG, 1972 SCALE 1" : 525'

- LEGEND**
- DIORITE
  - VOLCANICS



BY: *E. Asano* Aug 15/72  
MINSTEAD EXPLORATIONS LTD.

**4455-M4**

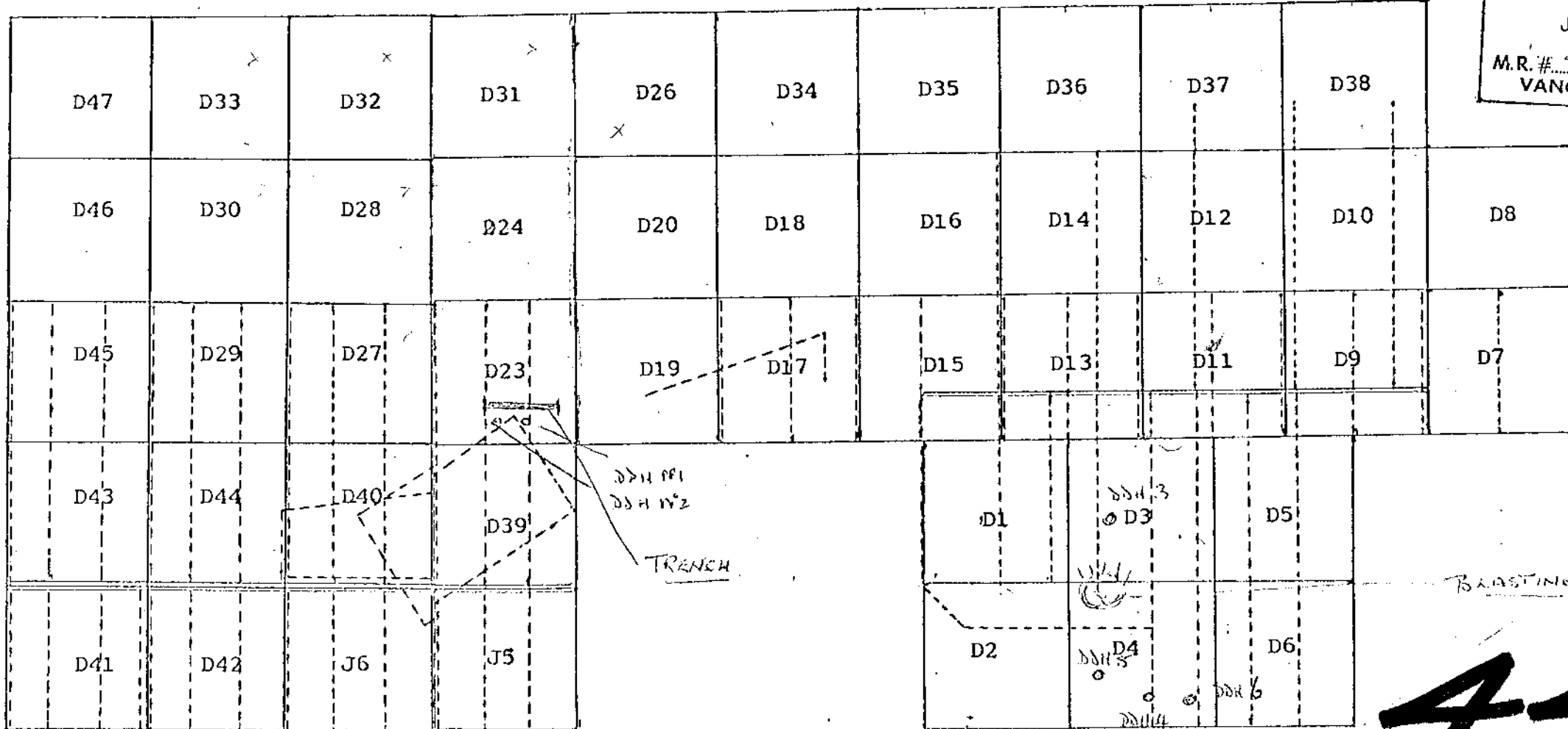


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Legend  
 D = Dicena  
 J = Judy

Department of  
 Mines and Petroleum Resources  
 ACCESSORY REPORT  
 NO. **4455** MAP #5

SUB-MINING RECORDER  
 RECEIVED  
 JUL 13 1973  
 M.R. # 81927E  
 VANCOUVER, B. C.



**4455**  
**M5**