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63.3375

HBOG Mining Limited

A SUBSIDIARY OF
HUDSON'S BAY OIL AND GAS COMPANY LIMITED
10 King Street East - Toronto, Ontario, Canada M5C 1C3



OFFICE OF THE MINISTER
MINISTRY OF NATURAL RESOURCES
AUG 24 1975

August 20, 1975

The Honourable Leo Bernier,
Minister,
Ontario Department of Mines and
Northern Affairs,
Parliament Buildings,
Queen's Park,
Toronto, Ontario.

Dear Mr. Bernier:

Re: Application for Exploration Assistance

Please consider this as formal application for financial assistance under the Ontario Mineral Exploration Assistance Program. The proposed program comprises the drilling of 4 diamond drill holes in the Townships of Kemp and Kelvin located in the westerly portion of the "assistance area" called the Cobalt-Gowganda area.

The 4 diamond drill targets are electromagnetic conductors which have not been previously tested. The total drilling program will be approximately 1200 feet of AX core which will cost an estimated \$30,000 (1200' at \$25.00/ft.). The drilling will be completed on the Rat-Tail and Road claim groups, which are 10 claims and 21 claims respectively. In support of this application please find enclosed the following in duplicate:

1. Location Map No. 4 at 1:50,000 scale showing claim groups, conductors, and drill holes.
2. Brief summary report of work completed to date.
3. Maps 1, 2 and 3 at 1" = 400 feet showing the geology, VL trace, HL width, and IP/OP ratio.
4. Legend and symbols for Maps 1, 2 and 3.
5. List of mining claims.

If additional information and/or clarification are required please advise.

Yours very truly,

E. C. Burgan,
Manager - Eastern Division.

ECB/CM
Encls.

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MEMORANDUM COVERING PROPOSED DIAMOND DRILLING

KEMP AND KELVIN TOWNSHIPS, ONTARIO

During the summer of 1975 HBOG Mining Limited conducted an airborne EM follow-up program of geophysical and geological investigation in Kemp and Kelvin Townships, which resulted in the discovery of 4 previously untested, overburden-covered, electromagnetic conductors with economic mineralization potential. These conductors were subsequently covered by two claim groups (see location map); the Road Group (21 claims), and the Rat-Tail Lake Group (10 claims). Four drill holes, DDH SS-75-1, SS-75-2, SS-75-3, and SS-75-4, for a total length of 1200 feet, have been proposed to test the conductor mineralization.

DDH SS-75-1 (Map 2)

DDH SS-75-1 is proposed to a length of 350' at -45° and is located to intersect a moderately strong 2400'-long electromagnetic conductor at its maximum width of 140' (interpreted from HL profiles). The conductor lies within an area of rhyolite, dacite and related pyroclastics.

DDH SS-75-2 (Map 1)

DDH SS-75-2 is proposed to a length of 450' at -45° and is located to intersect a long, strong conductor at an interpreted width of 300'. The conductor lies in acid volcanics and related pyroclastics intruded by a variety of basic rocks including diorite, diabase and gabbro.

DDH SS-75-3 (Map 1)

DDH SS-75-3 is proposed to a length of 200' at -45° to intersect a 1000'-long conductor near its maximum interpreted width of 60'. The conductor is surrounded by overburden and swamp. However, approximately on strike 600' to 1000' northeast, are outcrops of sheared chloritized acid volcanics with considerable quartz-carbonate veining, some andesitic flows sheared in part, and a thin (5' ? thick) bed of black argillite.

DDH SS-75-4 (Map 3)

DDH SS-75-4 is proposed to a length of 200' at -45° to intersect a 1700'-long, 50'-wide conductor at its strongest vertical loop response (HL is impossible at the DDH site due to edge of small lake). A trenching attempt, close to the proposed hole location, failed in rusty gossan soil at 5' depth. Fragments of pyritic acid tuff breccia float were observed at the trench site and at one location at the waters edge. The conductor lies in an area of acid to intermediate volcanics and related pyroclastics, intruded by basic rocks including diorite, diabase, and gabbro.

None of the above conductors have any significant coincident magnetic response.

P. Lassila, Geologist
August 20, 1975

LIST OF MINING CLAIMS

RAT-TAIL LAKE GROUP

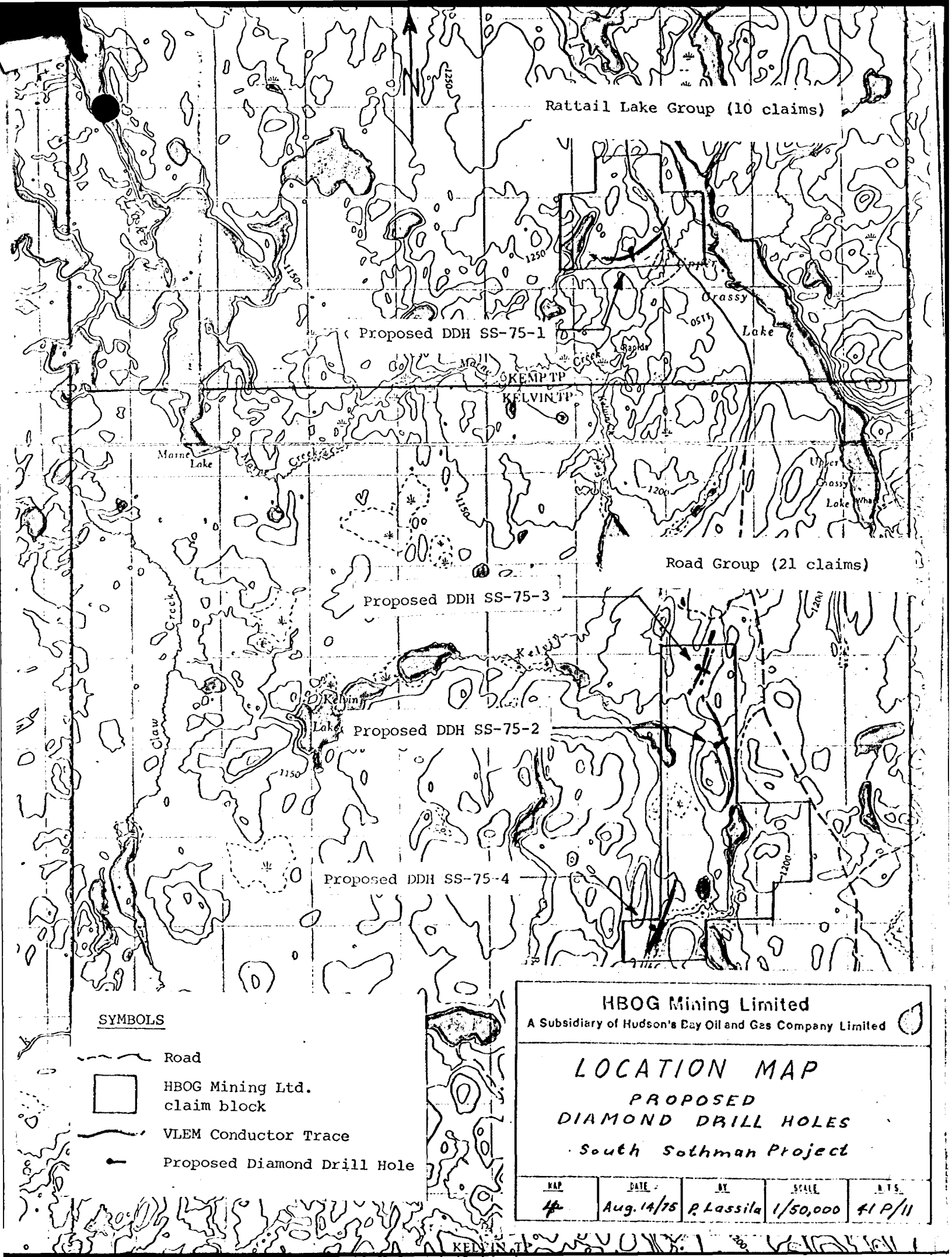
LL 440904-911

LL 440913-914

ROAD GROUP

LL 440626-644

LL 440662-663



Rattail Lake Group (10 claims)

Proposed DDH SS-75-1

Crassy Lake

KELVIN TP

Marine Lake

1200

Upper Crassy Lake

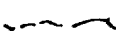



Road Group (21 claims)

Proposed DDH SS-75-3

Proposed DDH SS-75-2

Proposed DDH SS-75-4

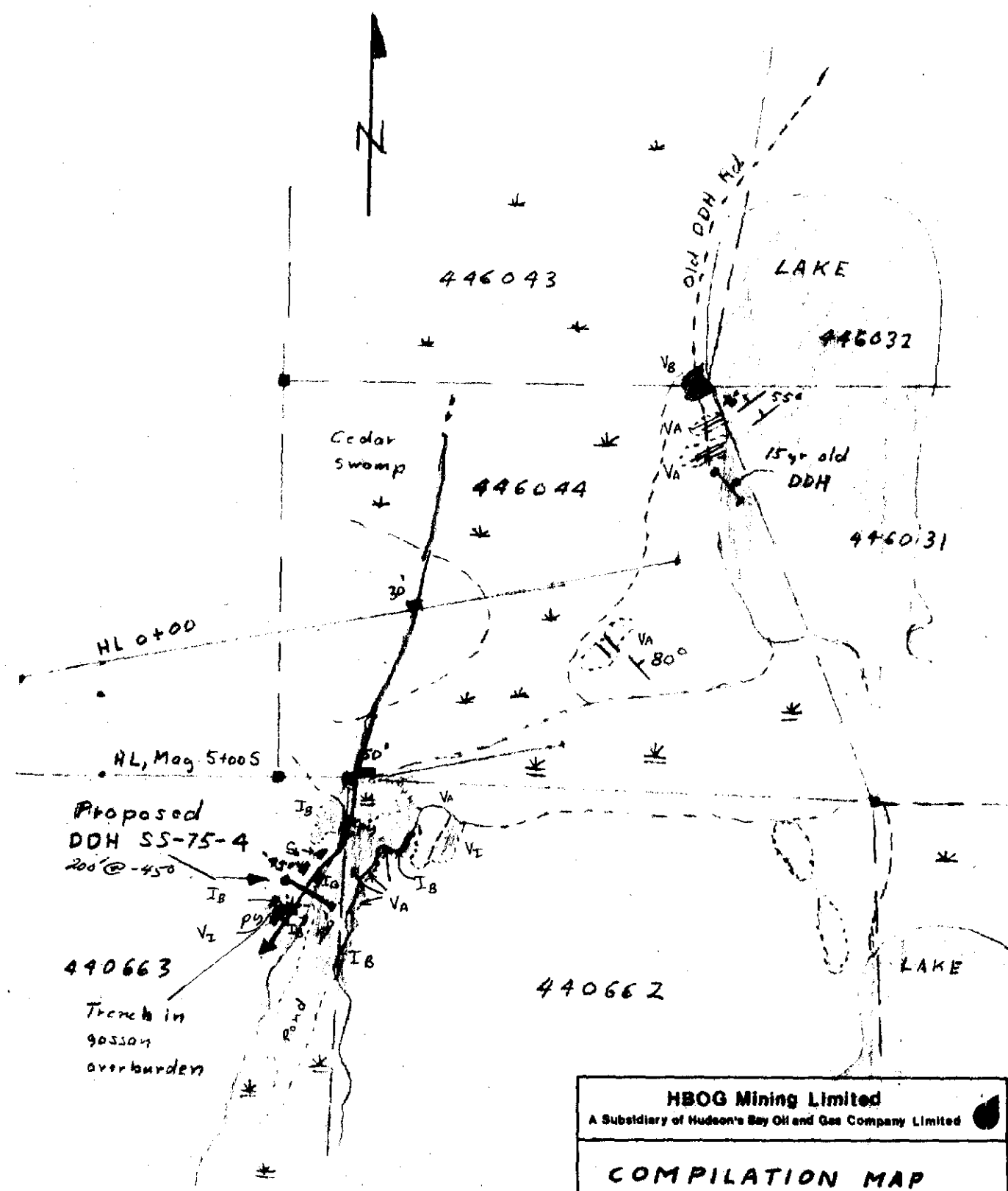
SYMBOLS

-  Road
-  HBOG Mining Ltd. claim block
-  VLEM Conductor Trace
-  Proposed Diamond Drill Hole

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LOCATION MAP
PROPOSED
DIAMOND DRILL HOLES
South Sothman Project

MAP	DATE	BY	SCALE	A.T.S.
4	Aug. 14/75	P. Lassila	1/50,000	41 P/11



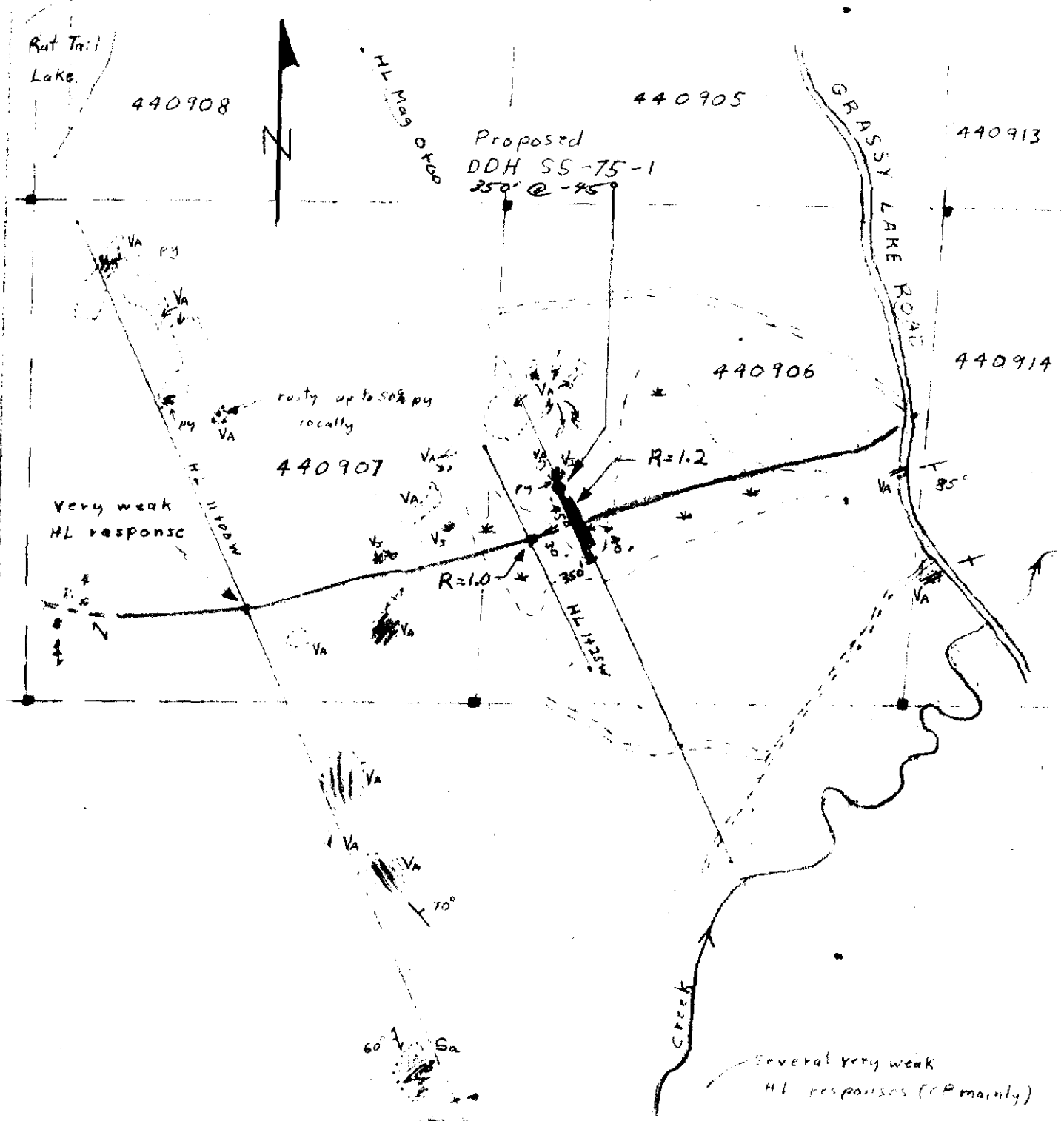
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**COMPILATION MAP
 PROPOSED DRILL HOLE
 (SS-75-4)
 South Sothman Project**

MAP	DATE	BY	SCALE	S.T.
3	Aug 1978	P.L.	1" = 400'	HP/11



200

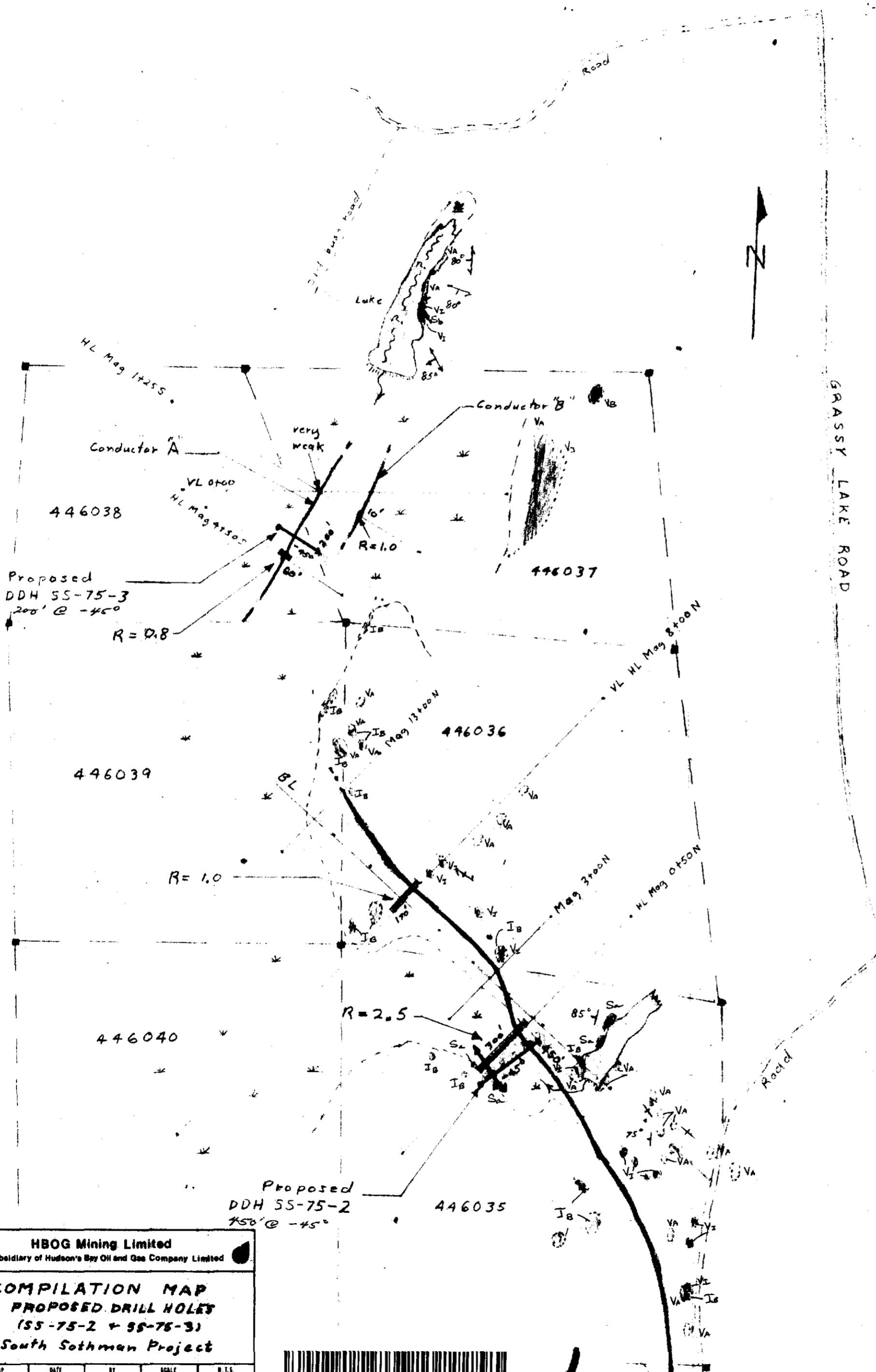


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**COMPILATION MAP
 PROPOSED DRILL HOLE
 (SS-75-1)
 South Sothman Project**

MAP	DATE	BY	SCALE	S.T.
2	Aug 1978	P.L.	1" = 400'	HP/11

rusty zone with py
 Blasted pit in rusty zone, looking up to 50% barren py



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





**COMPILATION MAP
 PROPOSED DRILL HOLES
 (55-75-2 + 55-75-3)
 South Sothman Project**

REV.	DATE	BY	SCALE	S.I.S.
1	Aug. 15/90	P.L.	1" = 400'	W.P./11

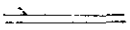
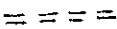
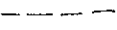

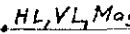



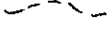
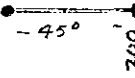
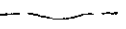








LEGEND AND SYMBOLS FOR MAPS 1, 2 & 3

LEGEND

I_B 	Basic Intrusives:----- gabbro, diabase, diorite
V_B 	Basic Volcanics:----- andesite, trachyte, & related pyroclastics
V_I 	Intermediate Volcanics:----- dacite and related pyroclastics
V_A 	Acid Volcanics:----- rhyolite and related pyroclastics
S 	Sediments:----- a) siliceous tuff & tuff derived quartzite b) shale, greywacke, graphitic cherty sediments, tuff breccia with black argillite matrix.
b 	
	Sulfide Mineralization
	Quartz Veining

SYMBOLS

	Gravel road
	4-wheel drive road
	Old drill or bush road (overgrown)
	Claim line and claim post
HL, VL, Mag 	Horizontal loop and vertical loop EM, and magnetometer traverse
	Swamp
	Open bog
	Beaver dam
	Topographic boundary
	Proposed diamond drill hole, dip and depth
	Conductor trace
	Conductor width interpreted from HL profile
$R = 0.8$	Ratio = in-phase/out-of-phase (HL)
	Outcrop
x	Blasted pit in bedrock
	Shearing
	Bedding
	Shearing with lineation
	Fault (interpreted)



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