



CONTINUED

HOLE NUMBER

M-38

PAGE NUMBER #3

FROM - FT.	TO - FT.	DESCRIPTION
435.0	474.5	<u>INTERMEDIATE GNEISS</u> : Mafics generally 30-70%, occasional small section 0-25%, avg. 40%; felsics avg. 15% pink, pinker in more felsic sections; clear banding 90%; fractures 0-10/ft. avg. 3/ft., 60% open
		468.5 - 469.0 Pyrrhotite specks; minor fault, 1.5" sheared breccia, 2" pegmatite, core angle 30°-60°
474.5	482.0	<u>PEGMATITE</u> : Mostly coarse grained pink to red pegmatite, contacts irregular, numerous fractures, partly broken due to fractures.
		479.5 - 482.0 Breccia stringers to breccia, possibly Levack breccia.
482.0	498.0	<u>AMPHIBOLITE</u> : Mostly fine to coarse grained, very dark green grey, very amphibole rich; 10% white to pink pegmatitic stringers to dykllets or inclusions, upper contact irregular, lower 45°; fractures avg. 5/2 ft., 60% open.
498	707.0	<u>INTERMEDIATE GNEISS</u> : Mafics generally 30-65%, occasional section 0-25%; some pegmatitic, avg. 50%, clear banding 90%, pink felsics in pegmatitic mostly, avg. 10%
		498.0 - 583.0 Many fractures avg. 5/2 ft., open
		505.0 - 507.5 Pegmatite contacts at 50°-65°
		545.3 2 cm Levack breccia stringer at contact with pegmatite stringer
		548.5 - 550.5 Small Levack breccia stringers
		583.0 - 648.0 Fractures avg. 2/ft., 60% open
		648.0 - 651.5 Pegmatite contacts at 40°-50°
		648.0 - 664.0 Fractures avg. 4/ft., 40% open
		664.0 - 707.0 Fractures 3/2 ft., 50% open

DIAMOND DRILLING

TOWNSHIP: Morgan

REPORT No.: 12

WORK PERFORMED BY: Falconbridge Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
S 538678	M-38	707	July/83	(1)

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TOTAL: 1 DM 707 FT.

NOTES: (1) #68-83

## SURFACE DIAMOND DRILL CORE RECORD

DATE DRILLED		LOCATION	ELEVATION		HOLE NUMBER
July 9 - July 17/83		Claim S.538678, NE $\frac{1}{2}$ N $\frac{1}{2}$ Lot 12, Con. 5, Morgan Twp.			Page #1
LOGGED BY:		BEARING	DIP	DEPTH	HOLE SIZE
R. J. Twilley		N20 $^{\circ}$ W	-49 $^{\circ}$	707'	BQ(Wireline)
Core Condensed <input checked="" type="checkbox"/>		Core Intact <input type="checkbox"/>	Hole Cemented <input type="checkbox"/>	Collar Cemented <input type="checkbox"/>	Contractor
				R & J Poisson Drilling	
FROM - FT.	TO - FT.	DESCRIPTION			
		Collar Location Approx. 600' South, 90' West of NE Corner of Lot 12 Con. 6 (#1 Post S-538678)			
0.0	24.0	<u>CASING</u> : (Left in, with 2 foot high yellow, steel cap placed over it)			
24.0	51.5	<u>FELDSPATHIC GNEISS</u> : Mafic minerals 0-70% avg. 35%; felsic minerals mostly white; qtz about 15%; clear gneissic banding about 70%; fractures avg. 4/ft., 80% open (broken in core) many with hematite, some blocky sections. 43.5 - 46.5 Ground core			
51.5	64.0	<u>FAULT ZONE</u> : Altered feldspathic gneiss; heavily fractured most fractures rusty some with carbonate, many fractures at 0-30 $^{\circ}$ (to core axis), source of cave and water			
64.0	180.0	<u>FELDSPATHIC GNEISS</u> : Mafics 20-70% with some sections 0-20% avg. 35-40%; some felsic sections pegmatitic; qtz. avg. about 10%; clear banding 70%. 64.0-71.0 Fractures avg. 31 ft., 70% open (broken in core) 71.0-180.0 Fractures avg. 3/2 ft., 70% open. 73.5-77.5 Pegmatite with 1 ft. felsic inclusion contacts at 35 $^{\circ}$ -45 $^{\circ}$ (to core axis). 94.0 Epidote altered band 3 cm at 60 $^{\circ}$ -70 $^{\circ}$ , 144.5-153.0 Pegmatite sections total 3.5'.			
180.0	189.0	<u>PEGMATITE</u> : Coarse grained to very coarse grained; mafics 10%; felsics 60% pink; qtz about 15%, some banding; one ft. inclusion of intermediate gneiss, contacts at 25 $^{\circ}$ -35 $^{\circ}$ ; fractures avg. 5/2 ft., with 40% open.			
189.0	207.0	<u>MAFIC GNEISS</u> : Mafics generally 50 - 70% with occasional feldspathic gneiss and pegmatite inclusion, mafics avg. 55%; banding poorly developed, possibly an amphibolite; fractures avg. 2/ft., 70% open.			

CONTINUED

HOLE NUMBER

M-38

PAGE NUMBER

#2

FROM - FT.	TO - FT.	DESCRIPTION
207.0	213.3	<u>FAULT ZONE:</u> 207.0 - 207.8 Chloritic fault breccia, upper contact broken. 207.8 - 213.5 Pegmatite; mostly brecciated to sheared, shearing and contacts at 25°-50°.
213.3	310.5	<u>INTERMEDIATE GNEISS:</u> Mafics generally 30-65% occasional small section 0-25%; some pegmatitic; qtz up to 35% in felsic sections avg. 10-15%; clear banding 85%; fractures generally 1/ft., 20% open 231.0 - 243.0 Mafics 0-55% avg. 20% 237.0 - 240.0 Feldspar, qtz; mafics less than 5% 274.0 - 278.0 Many fine carbonate fracture fillings
310.5	328.5	<u>AMPHIBOLITE:</u> Mostly coarse grained, black amphibole to amphibole-rich rock; occ. small section with coarse grained white felsics total 2 ft; upper contact broken some ground core, lower contact at 35°.
328.5	424.0	<u>INTERMEDIATE GNEISS:</u> Mafics 0-75% generally avg. 40%; felsics mostly white; clear banding 80-90%, sometimes very fine in more mafic sections; fracture avg. 2/ft., 50% open 378.0 - 409.0 Mafics avg. 55-60% some sections are amphibolitic 395.0 Soft black fracture filling 3 mm at 55° 408.8 - 410.0 Pegmatitic dyke; mafics 15%; contacts irregular steep; soft black fracture fillings 412.5 - 415.0 Possible fault; heavily fractured, pegmatitic, contacts broken.
424.0	435.0	<u>FELDSPATHIC GNEISS:</u> Mafics 0-20% with occ. section 30-60%, avg. 20%; felsics 20% pink, qtz avg. 15-20%; clear banding 60%; numerous fractures about 2/ft., open.

SURFACE DIAMOND DRILL CORE RECORD

CONTINUED

HOLE NUMBER

M-38

PAGE NUMBER

#4

FROM - FT.

TO - FT.

DESCRIPTION

707.0

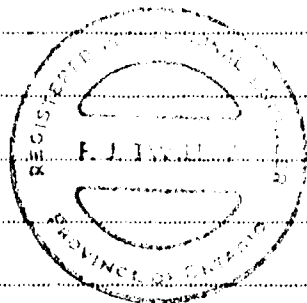
END OF HOLE

Core condensed to one piece/5', stored at Hardy Core Shack

Acid Dip Tests 25'-49<sup>0</sup>, 200'-49½<sup>0</sup>, 450'-46<sup>0</sup>, 707'-45<sup>0</sup>

No Assays.

Water flowing from hole probably from 51.5-64.0



*F. J. Twilley*

793-68



Ministry of  
Natural  
Resources  
Ontario

Report  
of Work

MORGAN TWP,  
(nd. 873)  
The Mining Act

Instructions

File S. 538678  
Supply required date on a separate form for each type of work to be recorded (see table below). For Core technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)"

Name and Postal Address of Recorder Holder FALCONBRIDGE LIMITED, P. O. Box 40 Commerce Court West, Toronto, Ontario. M5L 1B4	Prospector's Licence No. A.21647
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 707	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	S.	538678	101						
		538679	101						
		538680	101						
		538681	101						
		538682	101						
		538683	101						
	538684	101							

Required information: eg. type of equipment, Names, Addresses, etc. (See Table below)

Falconbridge Limited Assessment Diamond Drill Hole M-38 for 707', "BQ" wireline drilling, 1 7/16" diameter core. By Contractor: R. & J. Poisson Drilling P. O. Box 823, Val Caron, Ont. POM 3A0

Dates Drilled: July 9 - July 17, 1983

Location: All drilling was performed on Claim S.538678 NE 1/2 N 1/2 Lot 12, Con. 5, Morgan Twp.

Employees: Foreman Runner - Rene Poisson  
P. O. box 823  
Val Caron, Ont. POM 3A0

Runner - Wallace Brunet  
R. R. #1, Noranda, Quebec. J9X 5A3

Helper - Claude Brunet  
R. R. #1, Noranda Quebec. J9X 5A3

Helper - Larry Dube  
R. R. #1, Noranda Quebec. J9X 5A3

RECEIVED  
AUG 17 1983  
A.M. AUG 17/83 P.M.  
7:00 8:00 9:00 10:00 11:00 12:00 1:00 2:00 3:00 4:00 5:00 6:00

WORK ASSIGN:  
S. 538678 = 660, GRN. 3394

Date of Report: Aug. 11/83  
Inspector/Recorder or Agent (Signature): G.H. Guff

Certification Verifying Report of Work for Falconbridge Limited

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true

Name and Postal Address of Person Certifying  
F. J. Twilley, 477 Main Street, Sudbury, Ontario. P3A 1T7

Date Certified: Aug. 11/83  
Certified by (Signature): F. J. Twilley

Table of Information / Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work / operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling X	Signed core log showing: footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

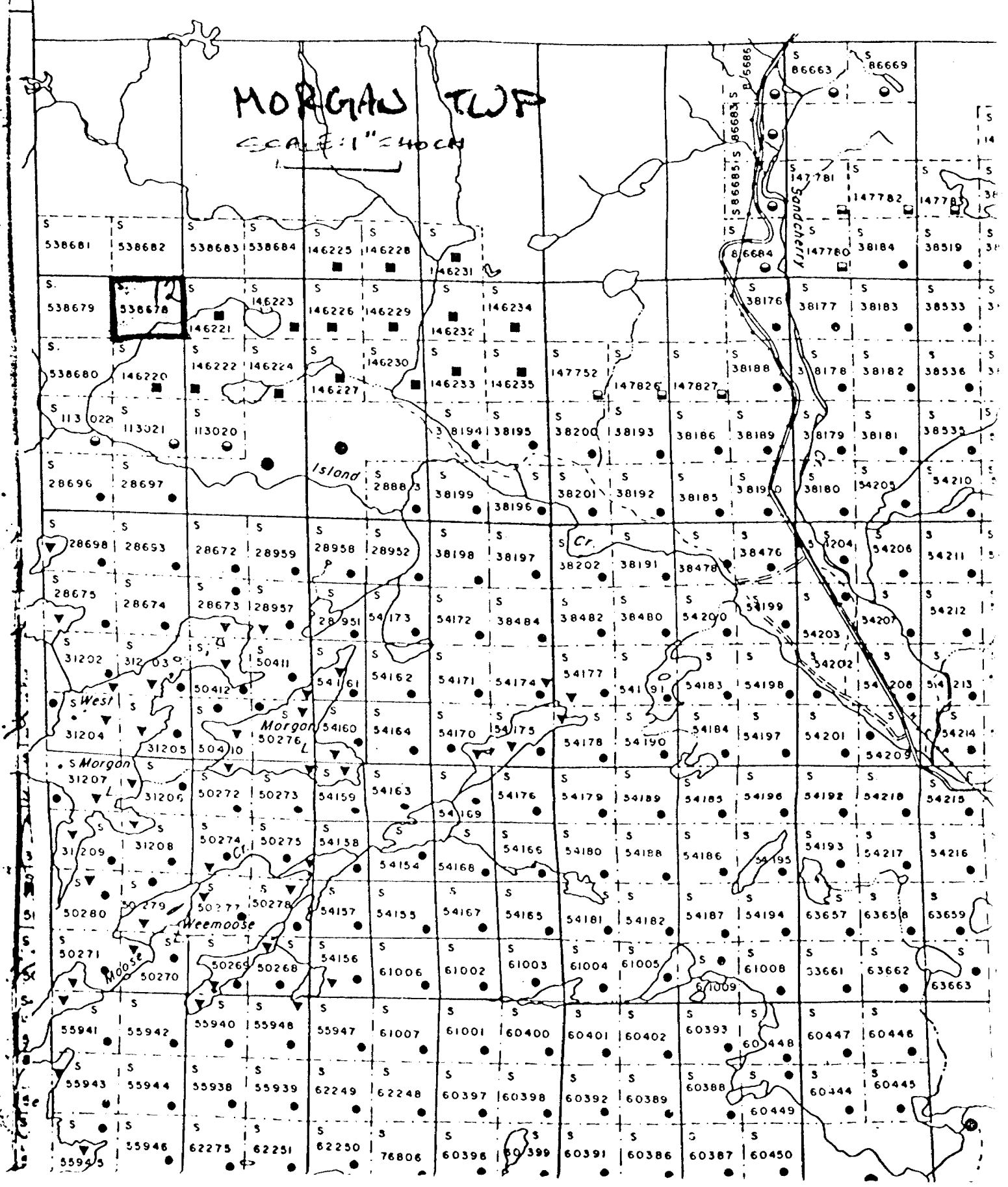


41111NW9560 MORGAN 19 A1 MORGAN

FOY Tp. M. 815

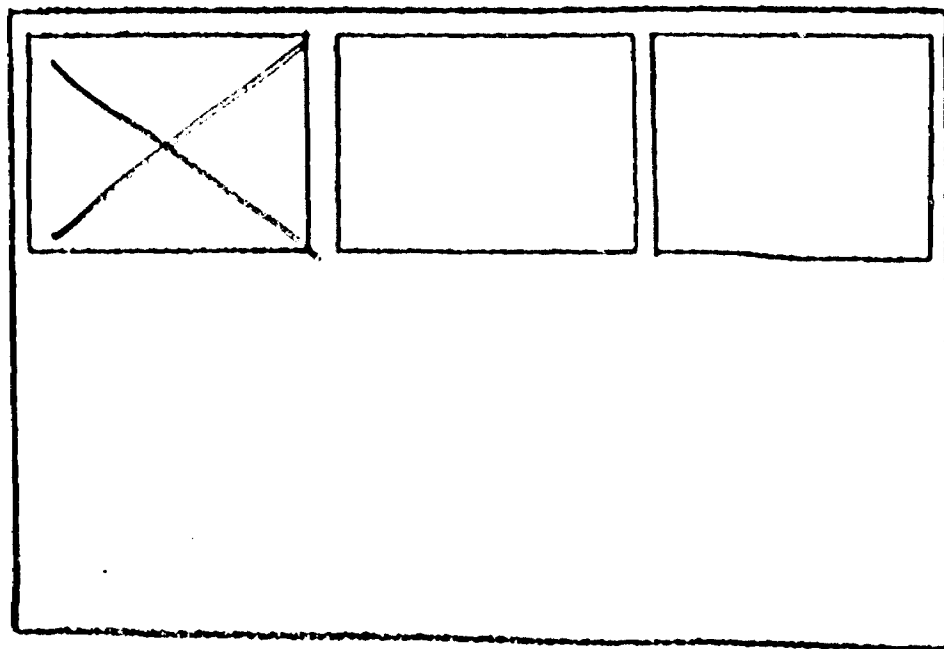
MORGAN TWP

SCALE: 1" = 40 CH

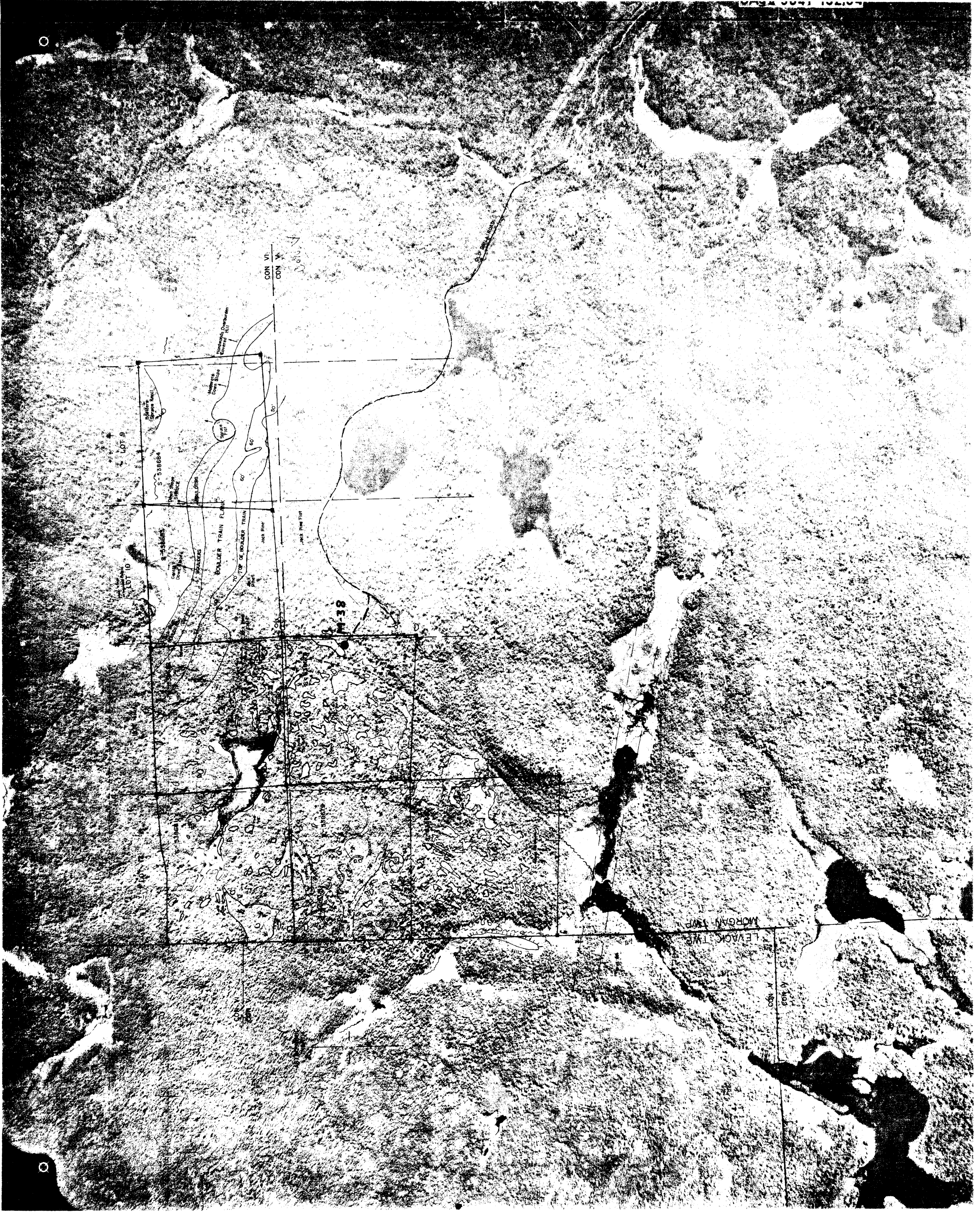


SEE ACCOMPANYING  
MAP(S) IDENTIFIED AS  
MORGAN-0019-A1-#1

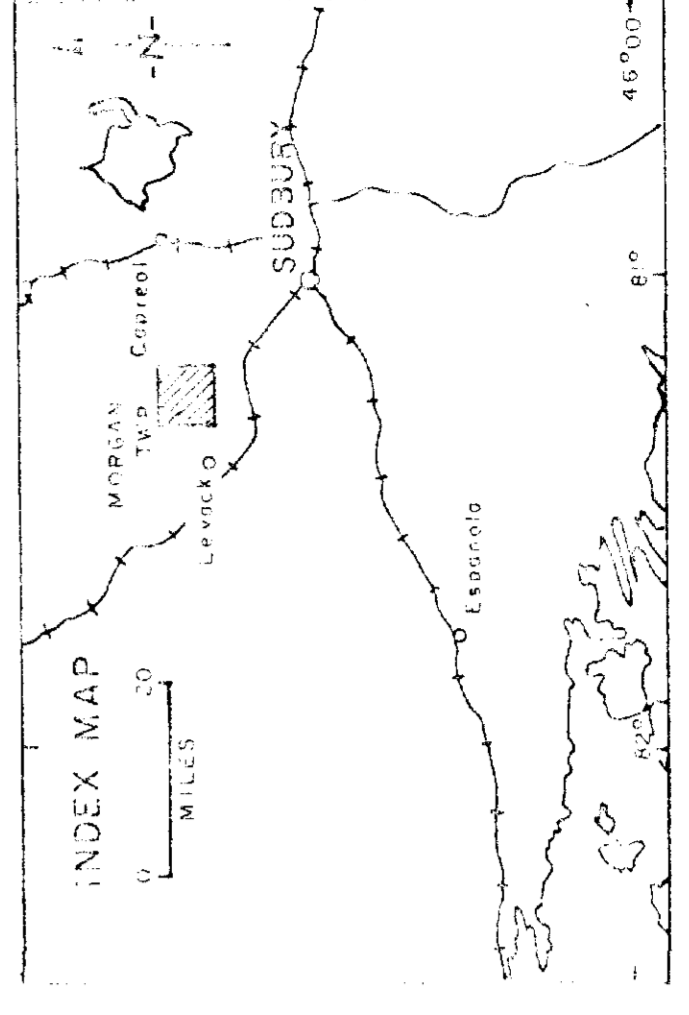
LOCATED IN THE MAP  
CHANNEL IN THE FOLLOWING  
SEQUENCE (X)







LOCATION MAP  
 SUTHERLAND ASSOCIATES, INC.  
 10000 W. 10th Ave., Suite 100  
 Golden, Colorado 80401  
 DATE: JULY, 1983  
 SCALE: 1" = 400' FEET  
 AUGUST 11, 1983



AP 7-8-83

MORGAN-CO19-A1-#1

APPROVED  
 JUL 12 1983  
 MORGAN-CO19-A1-#1

