

**SERVICES EXPLORATION SERVICES** Enrg.  
Reg'd.

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765, BOUL. QUÉBEC  
C.P. 428  
ROUYN, P.Q.  
J9X 5C4

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Drafting and Reproduction Services  
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42A10NE0047 2.9679 WALKER

010

GEOPHYSICAL SURVEYS

COSBY CLAIM GROUP

WALKER TWP. ONTARIO

August 1985

I - INTRODUCTION: Within the framework of a comprehensive exploration program, a magnetometer survey and a V.L.F electromagnetic survey were carried out, during the month of June, 1985, on the "COSBY" claims located in Walker Twp., Ontario.

II - PROPERTY: The property consists of ten (10) contiguous 16 hectares claims numbered as follows:

800964, 800965, 800966, 800967, 800995, 800996, 821286, 821287, 821289 and 821291.

III - LOCATION & ACCESSIBILITY:

The claim group is located in the northern part of Walker Twp., Ontario, i.e. on parts of lots 5 and 6, concession V, Larder Lake Mining Division.

The property lies at an approximate distance of 9 kilometers southeast of the town of Iroquois Falls, 5 kilometers east of highway 577 and 8 kilometers northeast of trans-Canada highway 11.

A range road (V-VI) leads eastward from the town of Iroquois Falls to the shores of the Black River. The claim group may be reached by following, by boat,

the river in a southeasterly direction for an approximate distance of one half mile.

#### IV - GEOPHYSICAL SURVEYS;

The surveys were carried out on a previously cut grid whose base line trends north-south for the western part of the grid and east-west for the eastern section. A total of 9 line miles were cut and surveyed.

##### Electromagnetic Survey:

A Geonics' E.M.-16 electromagnetic unit was used for the survey; readings were taken at every 100' intervals, facing south and tuned to the NAA Cutler Maine station emitting at 24.0 KHz.

Three parallel conductors have been outlined in the western part of the grid (east-west cross lines) trending in a southeasterly direction. These are labeled conductors "A", "B" and "C". Conductor "C" appears to be the strongest and the most pervasive. According to the magnetic patterns, the conductors trend in a direction parallel to the local stratigraphy.

Three parallel conductors have also been outlined in the eastern part of the grid (north-south cross

lines) trending in an east, southeast direction.

Conductor "D" located in the northeast quadrant of the grid area is relatively strong, however it is also coincident with a local stream, i.e. it is an expression of a topographical feature.

Conductor "E-1" outlined on cross lines 8W and 4W in the vicinity of 4S appears to have been tested by drilling: the collar of a D.D.H. has been observed immediately east of cross line 8W.

Conductor "F" has been outlined in the southeastern part of the grid; it is relatively weak.

Magnetometer Survey:

The survey was carried out using an Exploranium G-816 proton magnetometer which has a sensitivity reading of 1 gamma. The readings were taken at every 100' intervals. The usual diurnal and datum corrections were made.

Southwesterly trending magnetic features were outlined in the western part of the grid. They probably infer the presence of mafic flows

V - CONCLUSIONS & RECOMMENDATIONS:

All of the available geoscientific data should be studied before considering any of the E.M.-16 conductors as drill targets. In addition, induced polarisation surveys should be carried out to verify the nature of the E.M.-16 conductors.

Respectfully submitted:

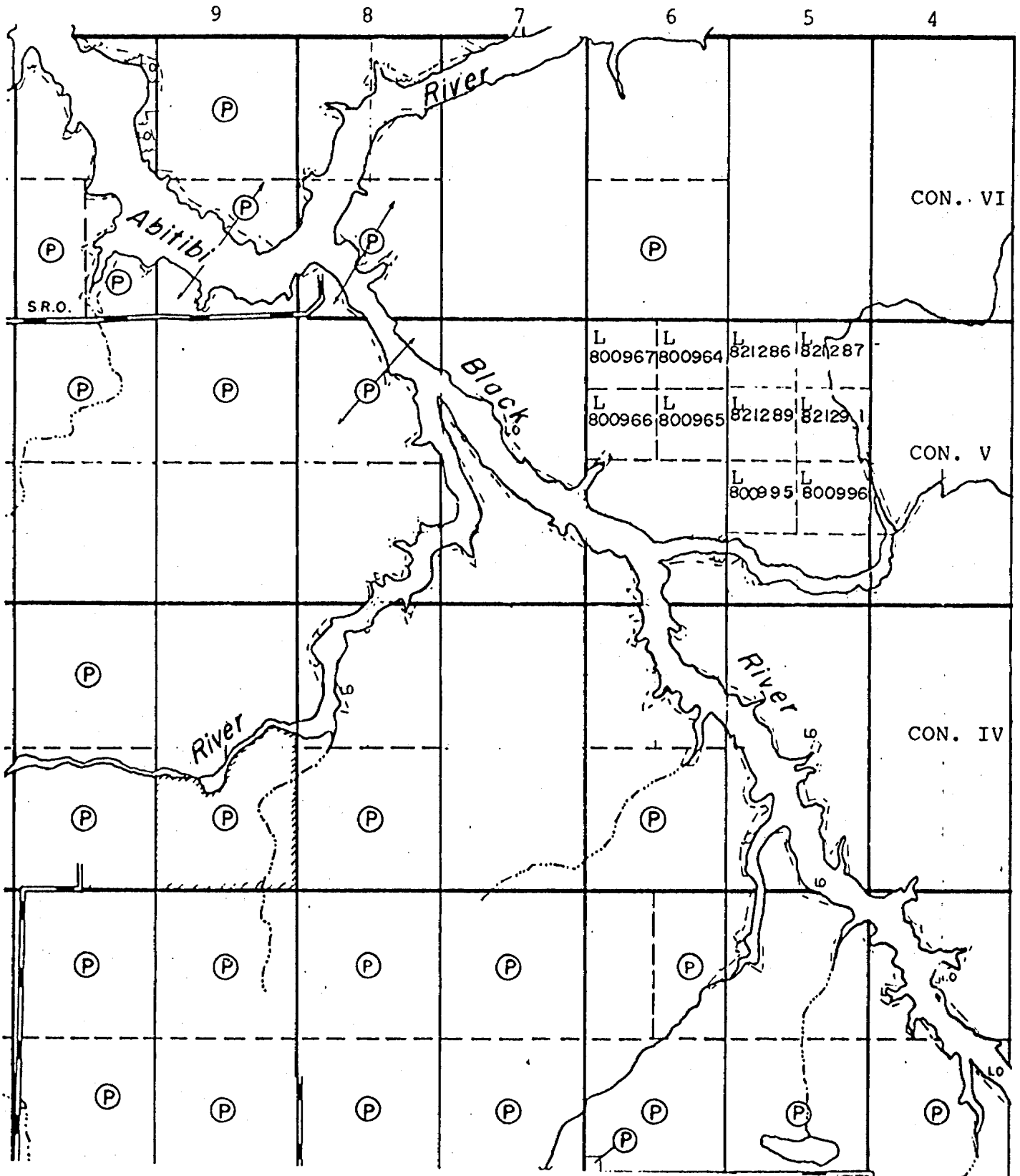
*2.1415*

E. Chartré: *E. Chartré*

August 15, 1985.

COSBY CLAIMS

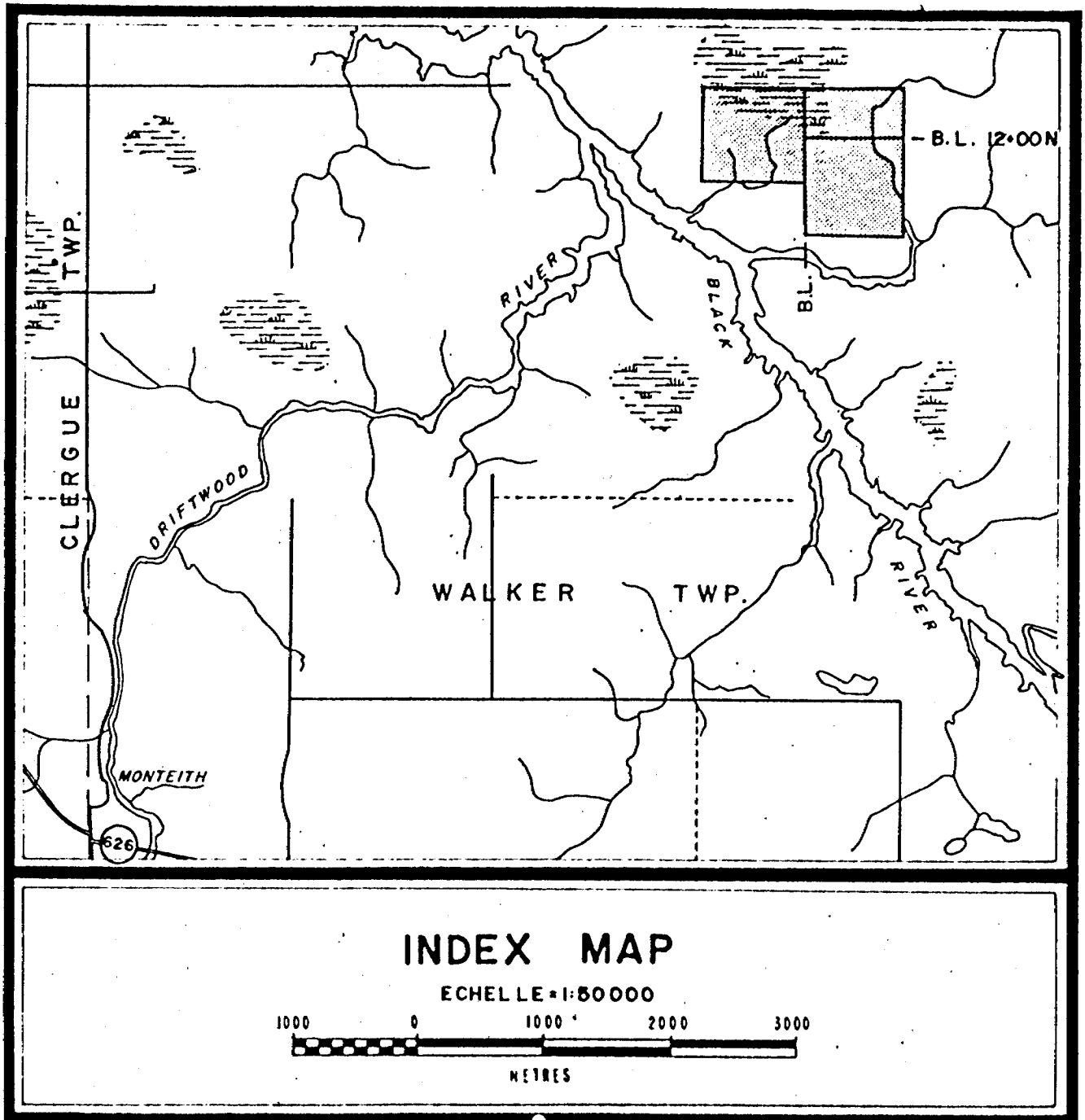
WALKER TWP.



Scale: 1" = 2640'

COSBY CLAIMS

WALKER TWP.





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G E O L O G Y

In reference to Regional Geological Map O.M.N.R. 2205 of the Timmins-Kirkland Lake sheet, it is indicated that Walker Township is believed to be underlain by Mafic flows, pyroclastic rocks, Felsic Metavolcanics unsubdivided and Diabase Dikes.

During survey of the property, no outcrop was seen. However, there is an outcrop of Olivine Basalt on the Black River ( Lot 6 ) which I collected a sample of.

Merle Cosby

Merle Cosby



*W. J. Youniss 218432 Minit*  
*800964*



900

Type of Survey: **MAGNETOMETER W8608-543**

Claim Holder: **MIRLE, S. COSBY** 15600

Address: **13 WINDERMERE RD. ST. CATHARINES - ONT L2T3W1**

Survey Company: **SERVICES EXPLORATION ENG** Date of Survey (from & to): **6 85** Total Miles of line Cut: **APP. 9**

Name and Address of Author (of Geo-Technical report): **SERVICES EXPLORATION ENG. 765 HORN - QUEBEC. CP 428. ROUYN, PQ. J7X 5E.**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	800964				
	800965				
	800966				
	800967				
	800995				
	800996				
	821286				
	821287				
	821289				
	821291				
<b>RECEIVED</b>					

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here  <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>DEC 17 1986 11:10am</p> </div>	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed: \_\_\_\_\_

Performed on Claim(s): \_\_\_\_\_

Calculation of Expenditure Days Credits

Total Expenditures: \$ \_\_\_\_\_ ÷ 15 = Total Days Credits: \_\_\_\_\_

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: **DEC 15/86** Recorded Holder or Agent (Signature): *Mirle S. Cosby*

**For Office Use Only**

Total Days Cr. Recorded: **400** Date Recorded: **DEC 17 1986** Mining Recorder: *M. Walker*

Date Approved as Recorded: **37.1.73** Branch Director: *[Signature]*

Total number of mining claims covered by this report of work: **10**

Certification Verifying Report of Work

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: **Mirle S. Cosby, 13 WINDERMERE RD. ST. CATHARINES. ONT L2T3W1**

Date Certified: **DEC 15/86** Certified by (Signature): *Mirle S. Cosby*

Teefy Twp.

THE TOWNSHIP OF








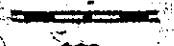






# WALKER

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH= 40 CHAINS

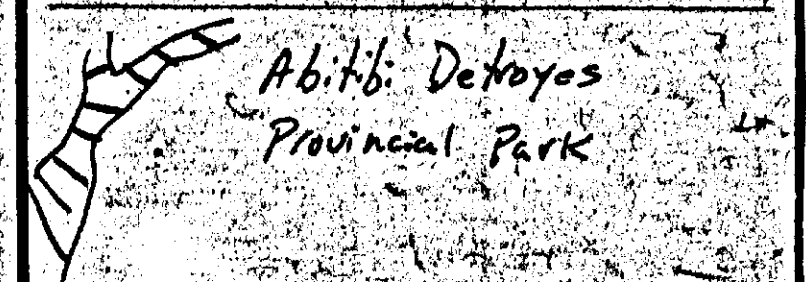
## LEGEND

- PATENTED LAND 
- CROWN LAND SALE 
- LEASES 
- LOCATED LAND 
- LICENSE OF OCCUPATION 
- MINING RIGHTS ONLY 
- SURFACE RIGHTS ONLY 
- ROADS 
- IMPROVED ROADS 
- KING'S HIGHWAYS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 
- MINES 

## NOTES

400' Surface rights reservation around all lakes and rivers.

L.O. 8672 issued for flooding rights along the shores of Abitibi, Black and Driftwood Rivers.



MAY 15 1986

#4

PLAN NO. M-396

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

Clergue Twp.

Wikie Twp.

VI

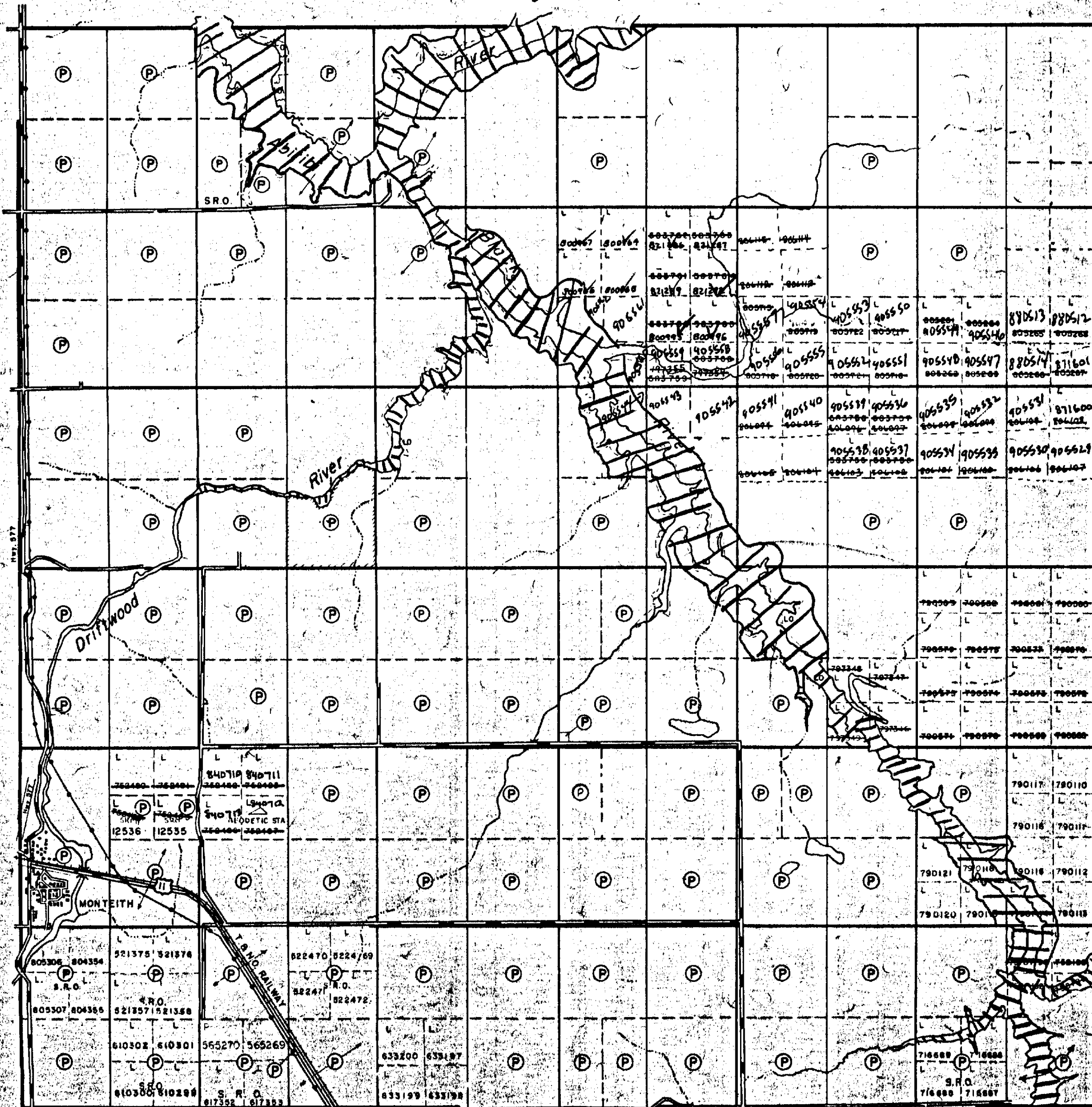
V

IV

III

II

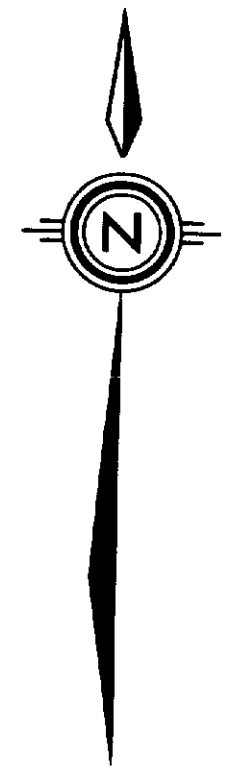
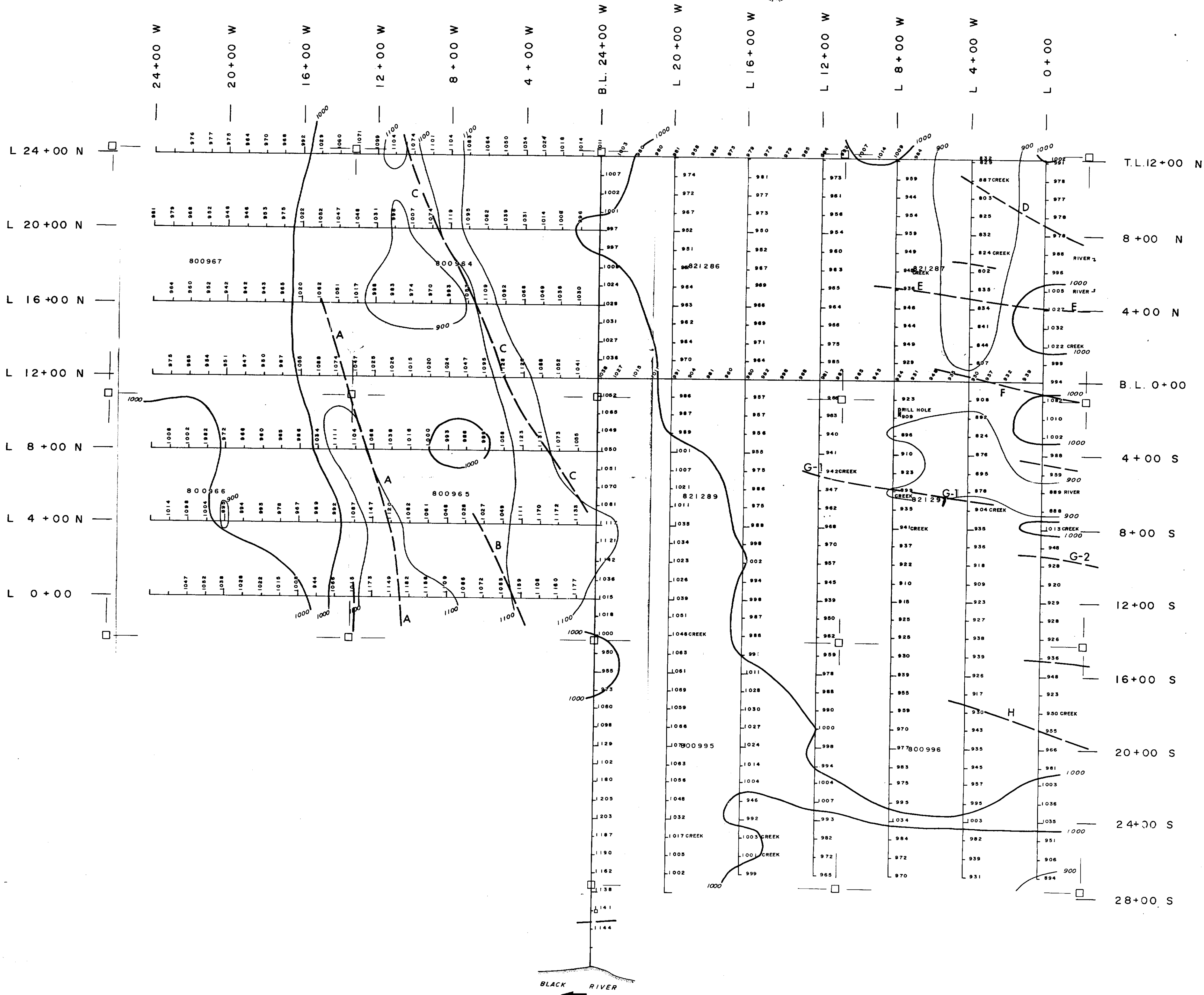
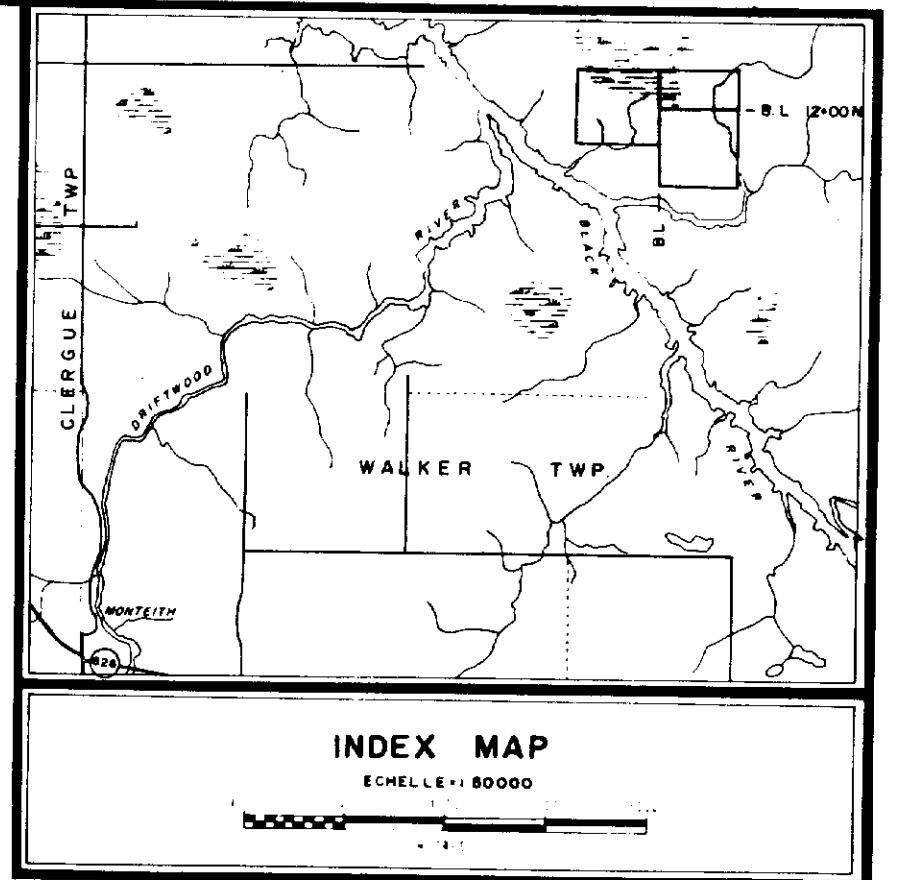
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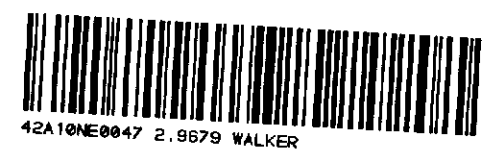
12 11 10 9 8 7 6 5 4 3 2 1



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All readings in range of 58,000 gammas



<b>MAGNETOMETER SURVEY</b>	
FOR	
<b>COSBY CLAIMS</b>	
PROJECT WALKER TWP	
Instrument Geometrics G-816	SURVEYED BY M. Cosby & R. Craig DATE JUNE 1985
TWP WALKER	DRAWN BY R. Lefebvre SCALE 1:2500
SERVICES EXPLORATION SERVICES ENRG REQ'D	