63.5003
Rec'd

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REPORT on the PROPERTY

of 2 of 2

DEERFOOT RESOURCES INC.
Blakelock Township, District of Cochrane
Larder Lake Mining Division
Ontario

by

R.S. Middleton, P.Eng.

Robert S. Middleton Exploration Services Inc.
P.O. Box 1637 Timmins, Ontario P4N 7W8
May 17, 1985

#63. 5003

OM 86-6-C-018

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

1. I.P. survey, Deerfoot Resources Inc, Greg Hodges, 1986 ⟶ see TORONTO file #2.9441 R.O.W #419 for 1986

2. Geology, Deerfoot Resources Inc, Ian Coaster, 1986 ⟶ see TORONTO file #2.9270 R.O.W. #337 for 1986

3. Linecutting, magnetometer, electromagnetic; Deerfoot Resources, R.J. Meikle, 1986 ⟶ see TORONTO file #2.9238 R.O.W #194 for 1986

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SUMMARY

Deerfoot Resources Inc. holds a 25 claim property in Blakelock Township, Larder Lake Mining Division, Ontario. This location is on the western part of the Burntbush greenstone belt and covers an extension of a series of iron formations and sediments that trend west from a new gold discovery in Casa Berardi Township in Quebec. Potential for stratabound sulphide gold deposits exist on the property as well as possibilities for disseminated pyrite hosted gold deposits within porphyritic and/or felsic volcanic tuffs. Previous work on the property gave a .03 oz gold assay over 3 feet within a porphyry containing disseminated sulphides. Other sulphide horizons have been indicated by either electromagnetic surveys or drilling in 1959 but have not been assayed for gold.

A program of line cutting, geology, magnetic electromagnetic and IP surveys followed by two stages of drilling has been recommended.

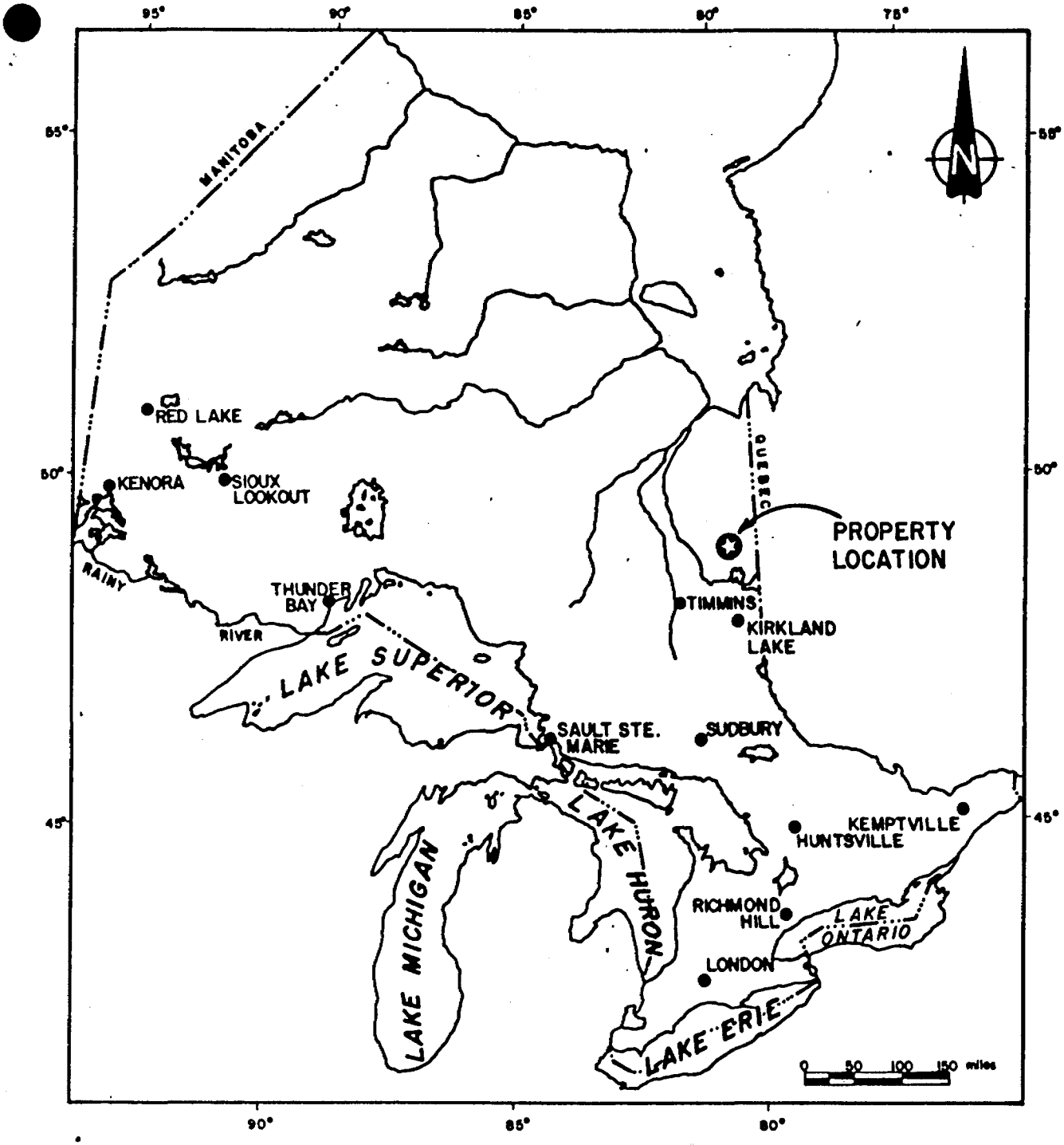
A Phase I budget of $26,500.00, followed by a Phase II of $49,000.00 for a total of $75,500.00 is recommended.

INTRODUCTION

This report was prepared at the request of Mr. Vern Booth, president of Deerfoot Resources Inc. and describes the geological potential of a 25 claim property located in the Burntbush greenstone belt, Blakelock Township, Ontario. The property covers the westward extension of a series of felsic volcanics, sediments, iron formations and porphyry zones that trend westward from the gold bearing Agnico Eagle - Casa Berardi belt in Quebec (see Figure 3). Recent gold discoveries along this belt has brought a new understanding to the importance of the regional time stratigraphic setting and the relationship of gold mineralization to iron formation marker horizons, Northern Miner (1984a, b).

Location, Access and Facilities

The property is located in southern Blakelock Township, 48 air miles northeast of Cochrane, Ontario (see Figure 1). Access to the property is via the new Detour Mine road passes 2.5 miles to the northwest of the property (see Figure 2). In addition part of the Abitibi Paper road system reaches a point 6 miles to the southeast of the property in Tomlinson Township. The eastern part of the property can be reached by float plane from Cochrane by landing on Magiskan Lake, while the western portion can be reached by landing on Floodwood Lake. Helicopter service is also available in Cochrane to reach the property.



PROVINCE OF ONTARIO

GEOLOGICAL ASSOCIATION OF CANADA
R. S. MIDDLETON
FELLOW

REGISTERED PROFESSIONAL ENGINEER
R. S. MIDDLETON
PROVINCE OF ONTARIO

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for Deerfoot Resources Inc.		
	Title Blakelock Twp. District of Cochrane		
	PROPERTY LOCATION		
	Larder Lake Mining Division, Ontario Fig. 1		
	Date MAY, 1985	Scale: 1"=160mi.	N.T.S.:
	Drawn: K.B.	Approved:	File: M-106

A power transmission line which extends eastward from Island Falls on the Abitibi River to the Detour Road is roughly 10 miles northwest of the property. This powerline follows the Detour Road to the Detour gold mine which is 40 miles north of the Blakelock property.

The property is within reasonable travel time to the Timmins and Kirkland mining centres where equipment and trained mine personnel are available. Sufficient aggregate and water resources are present if required on the property for construction and mine operations.

Property

The property consists of 25 claims as shown on Figure 4.

Claim Number	No	Recording Date
848 384 - 848 398	15	April 19, 1985
755 543 - 755 552	10	May 17, 1985
	25	

The claims are held by Maurex Resources Limited in trust for Deerfoot Resources Inc.

Previous Work

The first work done in the area was by the Conwest Exploration Company (Toronto File 63.1028) who carried out electromagnetic surveys in 1960 and drilled 2 short holes near the northern boundary of the property and 2 short holes near the

southern boundary of the property (see Figure 7). Several zones of porphyritic rhyolite with disseminated sulphides were indicated but the core was not assayed. The object of the Conwest program and subsequent work by others described below was base metals.

In 1976 further limited ground EM surveys and drilling were carried out by Geophysical Engineering Limited and two holes CC-6 and CC-7 were drilled which intersected stratabound pyrite-chert (iron formation) mineralization hosted in intermediate to felsic tuffs. The host rocks were sericitized. Also in 1976 Hudson Bay Mining and Smelting outlined a series of conductors on the southwest portion of the property area, near the Floodwood River (H.B.M.S. Grid G) but there is no record of drilling on file (Toronto File 2.2395). Noranda Exploration Company Limited did a ground EM and magnetic survey in a small area 1 mile east of the property (Toronto File 2.1658) and one hole was drilled roughly 2000 feet west of the Mikwam River (hole BK 75-2). Gold values of .03 oz Au over 3 feet at a depth of 106 - 109 feet were contained in a disseminated pyrite zone in porphyry in this hole.

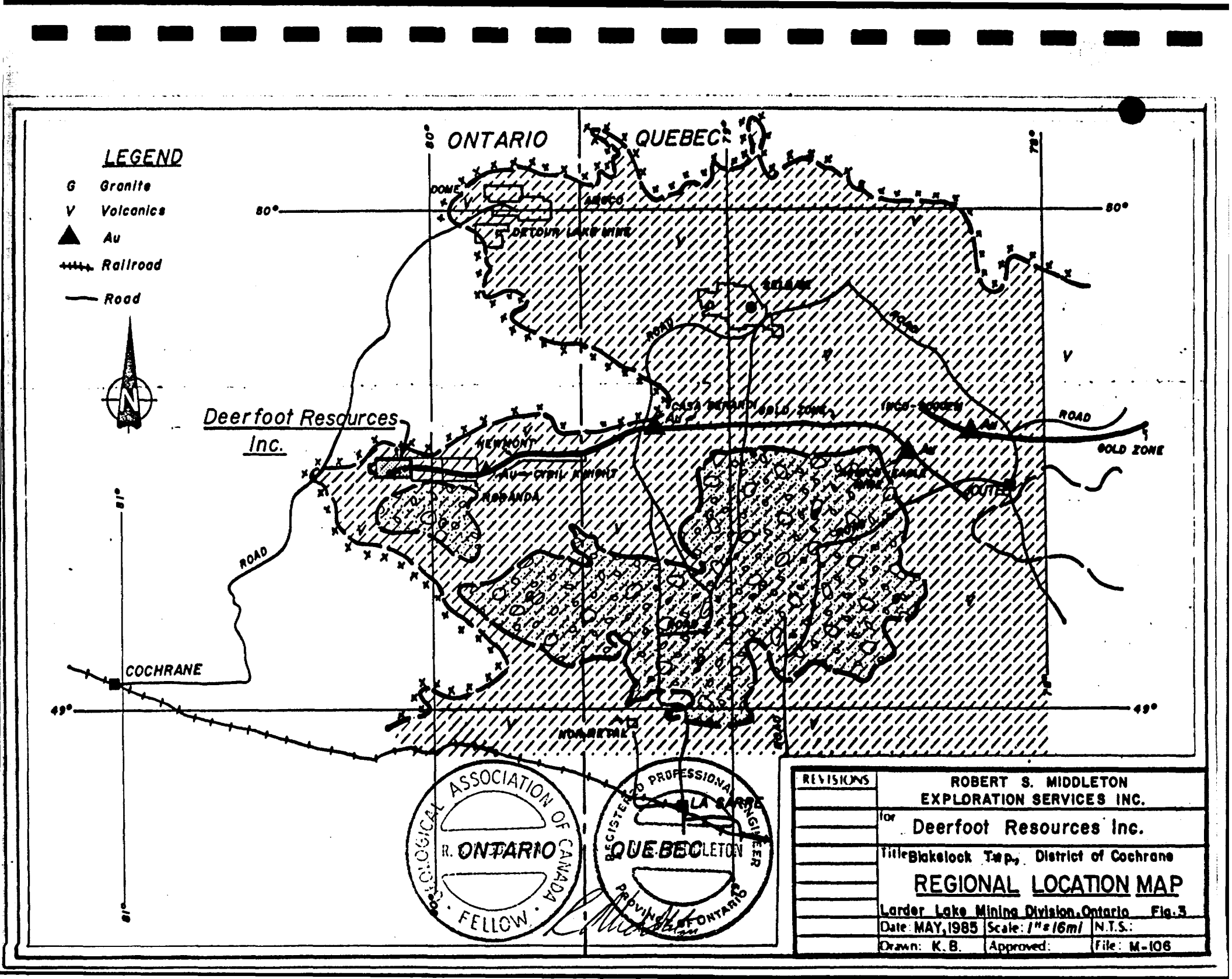
In 1982 - 1985 Newmont Exploration have been carrying out an extensive overburden drilling, geophysical and diamond drill program 10 miles east of the property and have recently announced an important drill intersection of 4 gm/7.5m N. Miner, April 18, 1985. This hole is on the same iron formation trend that extends west through the Blakelock and Tweed Township area (see Figure

6). Extensive staking has taken place west of the Newmont property by Esso Resources, coming within 3 miles of the Deerfoot property.

GEOLOGY

Regional Geology

A series of iron formations hosted in sediments, felsic-mafic volcanics extend from the Casa Berardi area of Quebec into the Burntbush greenstone belt area in Ontario. The geology is illustrated on Ontario Department of Mines Map 2161. These iron formations are closely related to the gold mineralization as shown by the new Casa Berardi discovery by Inco, see Northern Miner (1984a, b), but upon detailed examination gold occurs within several rock types including oxide and sulphide iron formation, argillites, greywackes, conglomerate and felsic tuffs. Carbonate and silica alteration - veining with pyritization is directly associated with the gold values within the various rock types at the Inco discovery. Bedded stratabound pyrite zones wihin the oxide iron formation also contain important gold values. Recent assays released by Inco give gold grades and widths in widely spaced holes of .13/6.7 ft., .26/24.9 ft., .73/15.7 ft., .23/81.5 ft., Northern Miner (1984b). A summary of the Inco assay results are given is given in the table at the back of this report.


LEGEND
G Granite
V Volcanics
Au
Railroad
Road
ONTARIO
QUEBEC
80°
81°
49°
Deerfoot Resources Inc.
DOME
AMCO
DETOUR LAKE MINE
ROAD
GOLD ZONE
INCO-GOODAY
KERR ADDISON
HEMLO
KIRKLAND LAKE
ROUYN
NORANDA
COCHRANE
REVISIONS
ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.
for Deerfoot Resources Inc.
Title Blakelock Twp., District of Cochrane
REGIONAL LOCATION MAP
Larder Lake Mining Division, Ontario Fig. 3
Date: MAY, 1985
Scale: 1" = 16mi
N.T.S.:
Drawn: K.B.
Approved:
File: M-106
GEOLOGICAL ASSOCIATION OF CANADA
R. ONTARIO
FELLOW
REGISTERED PROFESSIONAL ENGINEER
QUEBEC
LETON
PROVINCE OF ONTARIO

The aeromagnetic data as shown on Figure 6 can be utilized to trace the iron formation markers, and zones where the magnetic gradient becomes less indicate areas of change from oxide (high magnetic gradient) to sulphide and or carbonate facies. In Noseworthy township a gold showing is reported to occur near the Burntbush River (Cyril Knight showing) which is situated along the same magnetic horizon that links the iron formation markers in Quebec with the area containing the property. Overburden cover and general lack of outcrop in the region has prevented conventional gold prospecting and the principle exploration effort in the past 25 years has been base metal exploration using electromagnetic methods for outlining conductors. Gold analysis was not routinely done during these base metal programs, and as a result the gold potential for the area was not assessed nor was the geological setting appreciated until recent gold discoveries were made elsewhere along the belt.

Property Geology

The geology underlying the property consists of felsic, intermediate and mafic volcanic tuffs and flows which are intruded by local high level porphyry bodies. The south edge of the property is underlain by a sedimentary unit containing a conglomerate horizon that contains traces of gold, Thompson, R.(1936). Drilling done in the late 1960's to early 1970's was directed at a portion of a number of conductors within the bounds

of the property with the purpose of base metal exploration. Examination of the drill logs and in some cases the drill core which is on file at the Resident Geologist office at Kirkland Lake has shown that a number of stratabound disseminated (non-conductive) sulphides occur within the volcanic section as well as massive sulphides. These sulphide zones are extensions of iron formation - exhalitive units in the area. This type of setting is similar to that of the Agnico Eagle mine in Quebec, portions of the Inco Casa Berardi discovery and Hemlo in Ontario. Siliceous and sericite alteration occurs in the host rocks (seen by the writer in both old drill core and outcrop) which act as guides to tracing out sulphide horizons that may contain concentrations of precious or base metals. In other words the areas with greatest alteration would likely occur near and adjacent to areas with metal concentrations.

Analysis of disseminated pyrite in a porphyritic unit in Noranda hole BK 75-2 which is situated 2000 feet west of the Mikwam River (claim L 848 389) on the Deerfoot property assayed .03 oz Au/3 feet showing that gold is present and is anomalous in this sulphide and porphyry (possibly porphyritic rhyolite) environment (logs on file at MNR, Kirkland Lake). Therefore further exploration for stratabound sulphide and porphyry gold deposits within this area is warrented.

Outcrops on the central part of the property contain intense

silicification and brecciation indicating a center of hot spring activity within this section of volcanics. Nearby porphyry bodies may also indicate a volcanic centre area.

CONCLUSIONS and RECOMMENDATIONS

A survey grid at 120m line spacings and 20m pickets should be established on the property for control followed by a geological mapping program. Northwest-southeast cross lines should be run on the property. Horizontal loop EM using a 100m coil separation would establish the location of conductors relative to the grid and help map stratigraphy. Induced polarization is required to map disseminated sulphides within the felsic tuffs and porphyry units which form the main target on the property.

Several conductors outlined by the Conwest surveys will have to be reevaluated for gold potential and disseminated sulphide type zones, particularly in the vicinity of the porphyry outcrops will have to be explored.

BUDGET

Phase I			
Line cutting	24 mi @ $300/mi	$ 7,200.00	
Geological Mapping and Rock analysis	20 mi @ $500/mi	10,000.00	
Electromagnetic survey	24 mi @ $200/mi	4,800.00	
Transportation and Subsistence		2,500.00	
Reports and Supervision		2,000.00	
SUB TOTAL			$ 26,500.00
Phase II			
I.P. Surveys	10 mi @ $1,600/mi	16,000.00	
Travel and Subsistence		2,000.00	
Preliminary Drilling	1,500' @ $ 18/ft	27,000.00	
Assaying		1,500.00	
Drill Supervision		2,500.00	
SUB TOTAL			49,000.00
TOTAL OF PHASE I, & II			$75,500.00

Phase III

Further diamond drilling and detailed geophysical surveys contingent on results of Phase I and II.

Respectfully Submitted,

R. S. Middleton

Robert S. Middleton, P. Eng.

Hal Newsome
For R. Middleton

REFERENCES

Grabowski, G. and Waldron, D.
1981 Blakelock Township, Cochrane District, Ontario Geological Survey, Preliminary Map p. 2170, Kirkland Lake Data Series Scale 1:15840

Grabowski, G. and Waldron, D.
1981 Hoblitzell Township, Cochrane District, Ontario Geological Survey, Preliminary Map, p. 2171 Kirkland Lake Data Series Scale 1:15840

Grabowski, G. And Waldron, D.
1981 Tweed Township, Cochrane District, Ontario Geological Survey, Preliminary Map p. 2169, Kirkland Lake Data Series, Scale 1:15840

Johns G. W.
1982 Geology of the Burntbush - Detour Lakes Area NTS 32E/W., Cochrane District, Ontario O.G.S. Rept. 199 with map 2453

Thomson, J.E.
1936 Geology of the Burntbush River Area Ontario Dept. of Mines, Annual Report, Vol. 45, Part 6, p.49 - 63

Wilson, B.C.
1979 Geology of the Two Peak Lake Area District of Cochrane, Ontario Geological Survey Report 184 incl. Map 2410 Scale 1" = 1/2 mile

MAPS

Claim Maps:	Blakelock Twp. Plan	M419	1" = 40 claims
	Hoblitizell Twp. Plan	M503	1" = 40 claims
	Tweed Twp.	M608	1" = 40 claims

Topographic Maps:	Little Abitibi	42H/SE	1" = 2 miles
	Cochrane,	42H	1:250,000
	Two Peak Lake	42H/8	1:50,000

Aeromagnetic Maps:	Burntbush Lakes	Map 23586	1"= 1 mile	42H/9
	Two Peak Lake	Map 2357 G	1"= 1 mile	42H/8

Ontario Department of Mines

1968 Coral Rapids - Cochrane Sheet
Map 2161 Geological Compilation Series
1" = 4 miles

ARTICLES

Northern Miner

1984a Teck - Golden Knight financing on results from Casa Berardi, February 23, 1984

1984b Inco-Golden Knight gold find at Casa Berardi grows in stature, April 26, 1984

1984c Junior Mining Feature Report generate top excitement in hund at Casa Berardi, June 21, 1984.

1984d Inco, Golden Knight step up Casa Berardi, October 25, 1984.

1985 Newmont - CSA, April 19, 1985 p.A17.

ASSESSMENT FILES - TORONTO

Conwest Exploration Company - File 63.1028

Noranda Exploration Company Limited - File 2.1658

Hudson Bay Exploration & Development Company - File 2.2395

Geophysical Engineering Limited - Drill File No. 10, 11

CERTIFICATION

I, Robert S. Middleton, P.Eng., of 136 Cedar Avenue South, in the City of Timmins, Province of Ontario, certify as follows concerning my report on the Deerfoot Resources Inc. property and dated May 17, 1985.

1) I am a member in good standing of:

   a) Geological Association of Canada (FGAC)
   b) The Association of Professional Engineers of Ontario
   c) European Association of Exploration Geophysicists
   d) Society of Exploration Geophysicists

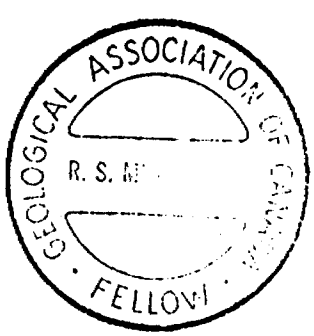
2) I am a graduate of the Michigan Technological University, Houghton, Michigan, U.S.A. with a B.S. degree in Applied Geophysics obtained in 1968, and an M.S. degree in Geophysics in 1969.

3) I have been practising my profession in Canada, occasionally in the United States, Central America, Europe and South Africa for the past 14 years.

4) I have no direct interest in the properties, leases or securities of Deerfoot Resources Inc. nor do I expect to receive any.

5) The attached report is a product of:

   a) Data listed in the references.
   b) Assessment work files - Ministry of Natural Resources, Kirkland Lake, Ontario.
   c) Discussions with colleagues who have worked in the area.
   d) My personal acquaintance with the Burntbush - Casa Berardi, Agnico Eagle area which I have examined and reported on for other companies.
   e) A personal visit to the property.



Dated May 17, 1985,
TIMMINS, Ontario

R. Middleton

Robert S. Middleton, P.Eng.

INCO - GOLDEN KNIGHT RESOURCES
Drill Results
Casa Berardi Township, Quebec

Golden Pond Area - Summary of Drill Results - N. Miner (June 21, 1984 and March 14, 1985). Intersections longer than 6 feet averaging .08 oz/ton or higher are noted.

Section	Hole No.	Dip	Interval (ft) From		To	Inter-Section (ft)	Oz Au/Ton
119+00E	70202	-65°N					wm*
	70213	-60°N	604.4	-	610.7	6.3	.11
	70220	-60°N					nil
119+50E	70201	-65°N					wm
	40670	-50°N	269.5	-	279.1	9.6	.78
120+00E	70203	-65°N					wm
	70219	-60°N	216.6	-	223.9	7.3	.23
121+00E	70261	-60°N					wm
	70204	-55°N					wm
	70226	-65°N	644.9	-	652.3	7.4	.08
	70222	-60°N	582.3	-	612.7	30.4	.08
			634.2	-	645.0	10.8	.13
			850.6	-	864.8	14.2	.14
	70218	-60°N	329.1	-	335.5	6.4	.13
121+50E	70223	-62°N	374.3	-	385.8	11.5	.08
			986.0	-	991.8	5.8	.10
			1014.7	-	1023.1	8.4	.10
	70216	-60°N	626.6	-	741.7	115.1	.09
	70221	-60°N	445.3	-	464.4	19.1	.08
			634.3	-	646.6	12.3	.16
	70212	-60°N	232.2	-	238.8	6.6	.24
			292.9	-	299.3	6.4	.17
122+00E	70262	-60°N	405.2	-	412.7	7.5	.13
	70224	-60°N	261.5	-	271.3	9.8	.11
			1124.1	-	1134.5	10.4	.15
	70205	-55°N	434.4	-	450.5	16.1	.12
			456.7	-	478.0	21.3	.10
			924.9	-	938.3	13.4	.15
	70206	-55°N	437.3	-	464.6	27.3	.10
			557.7	-	564.6	6.9	.13

Section	Hole No.	Dip	Interval (ft) From		To	Inter-Section (ft)	Oz Au/Ton
122+50E	70214	-60°N	380.6	-	408.6	28.0	.12
			892.0	-	900.0	8.0	.11
	70231	-58°N	314.5	-	324.7	10.2	.09
			555.8	-	565.6	9.8	.11
	70211	-60°N	347.8	-	363.7	15.9	.14
			410.8	-	418.8	8.0	.10
123+00E	70264	-55°N					wm
	70263	-55°N	416.1	-	430.3	14.2	.14
			591.0	-	598.7	7.7	.11
			609.0	-	615.5	6.5	.15
	70266	-60°N	850.9	-	859.3	8.4	.17
	70217	-60°N	225.1	-	241.4	16.3	.12
			285.6	-	292.6	7.0	.09
			325.4	-	332.7	7.3	.10
			502.8	-	521.1	18.3	.24
123+50E	70232	-60°N	314.6	-	326.0	11.4	.21
	70234	-55°S	399.5	-	454.2	54.7	.13
			550.9	-	558.1	7.2	.12
			683.4	-	696.0	12.6	.30
124+00E	70265	-60°N					nil
	70267	-60°N	584.7	-	596.0	11.3	1.02
			1106.0	-	1112.2	6.2	.69
	70235	-60°N	614.6	-	620.7	6.1	.11
			898.2	-	908.9	10.7	.33
	70269	-60°N	336.9	-	377.6	40.7	0.17
			446.0	-	461.2	15.2	0.08
			662.2	-	671.8	9.6	0.23
125+00E	70268	-65°N	1214.7	-	1238.0	23.3	0.29
	70236	-60°N	303.0	-	312.0	9.0	.20
			340.3	-	355.5	15.2	.21
			453.0	-	494.3	41.3	.15
	70258	-65°N	339.0	-	420.5	81.5	0.23
126+00E	70249	-60°N	788.9	-	795.0	6.1	0.66
	70237	-60°N	548.3	-	559.4	11.1	.33
			666.0	-	674.4	8.4	.15
127+00E	70256	-57°N					wm
	70238	-60°N					wm
	70257	-55°N	470.6	-	495.5	24.9	0.26
			593.5	-	609.2	15.7	0.73
		including	601.6	-	608.4	6.8	1.46
128+00E	70243	-60°N					wm
	70242	-55°N	522.3	-	532.3	10.0	.23
			608.4	-	626.4	18.0	.19
			713.0	-	723.2	10.2	.17
			756.2	-	766.2	10.0	.12
	70230	-55°N	386.1	-	396.0	9.9	0.09
			572.2	-	607.1	34.9	0.11

Section	Hole No.	Dip	Interval (ft) From		To	Inter-Section (ft)	Oz Au/Ton
	70250	-60°N					wm
	70241	-55°N	516.0	-	522.2	6.2	.14
129+00E	70254	-59°N	1103.5	-	1110.2	6.7	0.13
	70239	-55°N	741.2	-	746.2	5.0**	0.16
	70255	-65°S					nil***
122+00E	70259	-65°N	267.1	-	273.8	6.7	.11
			361.0	-	411.1	50.1	.14
124+00E	70260	-60°N	322.5	-	331.4	8.9	.33
122+50E	70270	-60°N	270.0	-	301.0	31.0	.09
125+00E	71703	-64°N	638.0	-	653.7	15.7	.08
			1327.6	-	1338.9	11.3	.12
125+00E	71704	-66°N	536.1	-	609.7	73.6	.13
		including	566.4	-	581.1	14.7	.20
			639.7	-	646.5	6.8	.13
124+00E	71706	-62°N	499.3	-	513.3	14.0	.08
124+50E	71707	-60°N	405.7	-	437.3	31.6	.09
			806.0	-	827.6	21.6	.08
124+00E	71708	-60°N	474.4	-	498.5	24.1	.08
			579.2	-	586.1	6.9	.09
124+50E	71709	-62°N	335.1	-	369.0	33.9	.15
		including	349.7	-	356.0	6.3	.45
			400.1	-	418.2	18.1	.15

Results Announced August 23, 1984 - Northern Miner

MAIN	71720	972.1	-	983.5	11.4	.21
		1018.2	-	1046.1	27.9	.11
ZONE	71723	1180.5	-	1211.1	30.6	.29
		1200.8	-	1204.7	3.9	1.05
		1259.0	-	1266.7	7.7	.17
	71710	1265.1	-	1284.8	19.7	.08
	71728	667.8	-	677.8	10.0	.12
EAST	71733	255.5	-	262.4	6.9	.11
		372.9	-	396.0	23.1	.20
ZONE	71731	281.1	-	288.8	7.7	.13
		310.5	-	351.2	40.7	.19
		436.9	-	457.6	20.7	.14
	71732	527.5	-	532.4	4.9	.29
NEW	71727	545.7	-	564.8	19.1	.09
		878.4	-	888.9	10.5	.08
WEST	71726	619.0	-	627.4	8.4	.10
ZONE	71730	164.3	-	216.7	52.4	.22

Section	Hole No.	Dip	Interval (ft) From	To	Inter-Section (ft)	Oz Au/Ton
Results Announced March 14, 1985 - Northern Miner						
	71742		1136.0	- 1144.1	8.1	0.12
			1246.0	- 1281.8	35.8	0.56
	incld.		1269.9	- 1281.8	11.9	1.02
	71752		512.9	- 538.9	26.0	0.26
			578.7	- 589.9	11.2	0.08
			603.5	- 718.8	115.3	0.19
	incld.		613.9	- 676.3	62.4	0.28
	71774		387.0	- 394.3	7.3	0.59

* wm = weak or narrow mineralization, nil = barren hole
** intersection less than 6.0 feet
*** deviated off target area

DIAMOND DRILL HOLE LOGS
DF-1-86 - DF-3-86
for
DEERFOOT RESOURCES INC.
Blakelock Township
Logged by
M.G. Beaulne

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

DIAMOND DRILL HOLE LOG

PROJECT:	DEERFOOT RESOURCES	HOLE NUMBER:	DF-1-86 M-106
AREA:	BLAKELOCK TOWNSHIP	LOCATION:	L28W 2+50S
CLAIM NUMBER:	755547	AZIMUTH:	170°
CORE SIZE:	BQ	DIP:	-50°
DRILLED BY:	FORRAGE SONDEX	DATE:	NOVEMBER 25, 1986
LOGGED BY:	M.G. BEAULNE	CASING:	48 FEET
CORE STORED AT:	MNR LIBRARY	LENGTH:	188 FEET
OBJECTIVE:	IP ANOMALY	ACID TESTS:	@48' -47° @188' -49°

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

Project Deerfoot Resources - Blakelock M-106

DIAMOND DRILL HOLE LOG

Hole No. 1 Page 1 of 4

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
0	48	CASING								
48	74'7"	MAFIC TUFF (dacitic) -light to medium grey green in colour -fine grained with occasional fine to medium grained zones -chloritized -numerous carbonate stringers at 80°-90° TCA -occasional minor quartz veins with associated PY & PO -locally garnetiferous, garnets associated with disseminated PO (magnetic) and or magnetite -banded appearance -siliceous with very finely disseminated PY & PO	85							
		54'6" -1/2" quartz veinlet								
		56'6"-59'0" -numerous PY stringers fracture filling		3-5%	89751	56'6"	59'0"	2'6"	13	
		57'1" -1/2" quartz veinlet with associated replacement PY		PY <1	89757 89758	63' 68'	68' 73'	5' 5'	9 12	
		58'3" -1/2" quartz veinlet with vuggy PY		<1%	89759	73'	74'7"	1'7"	11	
		68' Onwards -becoming more garnetiferous -garnets occur in discreet bands 80-85° TCA and are magnetic, garnets up to 1/4" in diameter								
		68-71 -many calcium carbonate stringers								
74'7"	81'9"	MAFIC TUFF (andesitic) contact 70° -with occasional quartz eyes -pinkish grey rock -banded 75-80°	70	<1 <1	89760 89761	74'7" 76'9"	76'9" 81'9"	2'2" 5'	11 10	

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 1 Page 2 of 4

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
		-calcite stringers -occasional thin chloritic bands -some localized disseminated PY & PO -upper contact 75°, carbonate stringers & PY fracture filling 75'9" -1/2" quartz-carbonate bleb with PY&PO 76'9"-80'6" -many fine calcium carbonate stringers -76'9" and 81'9" faults -. shistose 3"-80°								
81'9"	110'9"	MAFIC TUFF (dacitic) -as above			89762	81'9"	85'3"	3'6"	12	
		82'5"-85'3" -thinly layered garnetiferous -1/2" quartz veins with associated PY 94'10"								
		-3/4" quartz vein with vuggy PY			G89752	94'6"	95'6"	1'	7	
		96'6"-101'								
		-very garnetiferous banded 85-90°			G89763	95'6"	100'6"	5'	13	
		101-104 -becoming paler grey, less chloritized								
110'9"	116'1 1/2"	TUFF (laminated) -fine grained - aphanitic -grey-brown in colour, somewhat pinkish -banded subverticle -very finely laminated -micateous partings -tourmaline crystals along some parting planes -occasional small garnets <1/16" -no apparent mineralization -somewhat siliceous	90°		G89753	110'9"	116'1 1/2"		6	
116'1 1/2"	143.4	MAFIC TUFF (dacitic) -similar to above, however quartz and								

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

Project Deerfoot Resources - Blakelock M-106

DIAMOND DRILL HOLE LOG

Hole No. 1 Page 3 of 4

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE				Analytical Result		
From	To				Number	From	To	Length (feet)	Au (ppb)		
		carbonate veins become fewer and garnets occur only occasionally and rarely as discreet bands			G89764	127'	129'	2'	11		
		135'-136'3"									
		139'1"-141'3"									
		-feldspar porphyry dykes	80°		G89765	135'	136'3"	1'3"	14		
		-light grey									
		-mottled texture									
		-sodic feldspar crystals up to 1/8" in diameter in a biotite rich matrix									
		141'3" onwards									
		-less siliceous									
		-becoming more andesitic									
143'4"	172'	ADNESITIC TUFF			G89366	150'3"	153'3"	3'	7		
		-gradual change in composition no sharp break	80°		G89767	155'	160'	5'	6		
		-less chloritized			G89768	167'	169'10"	2'10"	9		
		-rock is medium grey in colour									
		-generally fine grained with some coarse grained sections									
		-very finely disseminated pyrite and pyrite fractured filling from 143'4"-151'									
		-micateous parting									
		143'4"-148'5"									
		-coarser grained									
		148'5"-154'9"									
		-many carbonate stringers and some chlorite									
		161'10"-169'10"									
		-many carbonate stringers									
		-little or no mineralization									
		-little or no chlorite									
		169'10"-172'									
		-fine grained chloritic									
172'	179'9"	TUFF									

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 1 Page 4 of 4

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
		-very finely laminated at approximately 70°	70°							
		-very fine grained			G89754	172'	176'6"	4'6"	8	
		-midly chloritized to 176			G89755	176'6"	178'1"	1'5"	7	
		-micateous partings			G89756	178'1"	179'9"	1'8"	7	
		-very little mineralization								
		176'6"-178'1"								
		-banding deformed ie. crenulated								
		-no chlorite at all								
		-core is brownish and very soft micateous								
		178'1"-179'9"								
		-chloritized and quartz carbonate stringer up to 1/4" in width								
179'9"	188'	AUDESITIC TUFF								
		-similar to above	70°							
		-chloritic								
		-many carbonate stringers								
		-some very thin bands of micateous tuff								
	188'	END OF HOLE								

ROBERT S MIDDLETON EXPLORATION SERVICES INC.

DIAMOND DRILL HOLE LOG

PROJECT:	DEERFOOT RESOURCES	HOLE NUMBER:	DF-2-86 M-106
AREA:	BLAKELOCK TOWNSHIP	LOCATION:	21+30W 875S
CLAIM NUMBER:	848384	AZIMUTH:	150°
CORE SIZE:	BQ	DIP:	-50°
DRILLED BY:	FORRAGE SONDEX	DATE:	NOVEMBER 28, 1986
LOGGED BY:	M.G. BEAULNE	CASING:	74'
CORE STORED AT:	MNR LIBRARY	LENGTH:	230 FEET
OBJECTIVE:	EM ANOMALY	ACID TESTS:	@74' -52°

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 2 Page 1 of 3

Footage From	Footage To	ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sulphides	SAMPLE Number	SAMPLE From	SAMPLE To	SAMPLE Length (feet)	Analytical Result Au (ppb)	Analytical Result
0	74	CASING								
74	98'7"	MAFIC TUFF (andesitic) -dark grey in colour -fine to medium grained -small garnets occur in some sections -pyrite occurs as small blebs or fracture filling, pyrite is not very common -somewhat chloritic -occasional quartz veinlets up to 1/2" width -some PO stringers (few)		<1	G89796	87'	92'	5'	11	
98'7"	107'9"	MAFIC TUFF Dacitic -lighter in colour -more dacitic -contact displaced by minor faulting -not as garnetiferous -pyrite and PO blebs and fracture fillings and some minor disseminated pyrite and PO -some banding at 45° to core axis								
107'9"	122'	ARGILITE -medium grey -fine grained -contact 30° -some pyrite along bealding planes	30°		G89797	110'6"	115'6"	5'	5	
122'	230'	MAFIC TUFF (Dacitic) -similar to above 125'-131'6" -more garnetiferous 131'8" -2" quartz carbonate vein -core quite blacky 135'6" -altered brown banded foliation at			G89798	135'	137'	2'	44	

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

Project Deerfoot Resources - Blakelock M-106

DIAMOND DRILL HOLE LOG

Hole No. 2 Page 2 of 3

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
		80° to core axis -quartz carbonate blebs disseminated PY&PO 143'8"-144'8"			G89799	143'8"	144'8"	1'	.8	
		-altered disseminated PY&PO&2" quartz carbonate vein 148'10"-151'7"			G89800	148'10"	151'7"	2'9"	11	
		-altered disseminated PY&PO & blebs and quartz stringers 157'-161'2"								
		-very fine grained and thinly bedded -contact at 30° to core axis 163'9"-166'	30°							
		-altered -minor mineralization 167'6"-170'								
		-darker, finer grained, more minor mineralization ie. stringers and fracture filling contact 25-30° 173'-177'	30°		G89801	167'6"	170'	2'6"	15	
		-altered quartz rich blebs -brown in colour -calcium carbonate stringers -PY&PO fracture filling and blebs 178'-187'5"			G89802	173'	177'	4'	47	
		-argillite -181'4"-181'10" brecciated zone in quartz and carbonate -core very blocky and ground! -between 167 and 187'5" 2-3' ground most probably around 185' 187'5"-222'7"			G89803	180'6"	187'5"	4'1"	10	
		-fine grained, finely laminated -mafic -not badly broken -small undeveloped garnets -core angles 25°-30° -little mineralization								

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

Project Deerfoot Resources - Blakelock M-106

DIAMOND DRILL HOLE LOG

Hole No. 2 Page 3 of 3

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
		222'7"-227'7" -feldspar porphery dyke -phenocrysts up to 1/2" -contacts irregular -disseminated pyrite to 1% -quartz blebs and pyrite at upper contact		1	G89804	222'7"	227'7"	5'	10	
		229'-230' -quartz vein and ground core -some minor pyrite			G89805	229'	230'	1'	10	
	230	END OF HOLE								

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

DIAMOND DRILL HOLE LOG

PROJECT:	DEERFOOT RESOURCES	HOLE NUMBER:	DF-3-86 M-106
AREA:	BLAKELOCK TOWNSHIP	LOCATION:	2130W 525S
CLAIM NUMBER:	848393	AZIMUTH	160°
CORE SIZE:	BQ	DIP:	-50°
DRILLED BY:	FORRAGE SONDEX	DATE:	DECEMBER 1, 1986
LOGGED BY:	M.G. BEAULNE	CASING:	72'
CORE STORED AT:	MNR LIBRARY	LENGTH:	401 FEET
OBJECTIVE:	IP ANOMALY	ACID TESTS:	77 FEET -51° 250 FEET -47° 400 FEET -47°

ROBERT S. MIDDLETON EXPLORATION
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DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 3 Page 1 of 5

Footage From	Footage To	ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sulphides	SAMPLE Number	SAMPLE From	SAMPLE To	SAMPLE Length (feet)	Analytical Result Au (ppb)		
0	72	CASING									
72	112	GRANITE -grey to pinkish grey -medium to coarse grained, average grain size 1/16-1/8", some up to 1/4" diameter -fairly biotitic -minor disseminated PY throughout with occasional PY fracture filling -occasional minor quartz stringer with associated PY 82' -1/4" quartz stringer with PY 35° 106'-109' -more pinkish potasium feldspar rich -106'6" 1 1/2" quartz vein at 45° -no mineralization		<1							
112	190	ALTERED BASALTIC TUFF -hard, siliceous -colour varies from dark grey to brown to cream -well mineralized with PY&PO occuring as blebs and disseminated, some sections up to 20% an average 3-5% -top contact -75° -fine grained -some sections appear brecciated ie. flow breccia from 1/16" to 1/8" in size -rock appears heavily altered 112'-114' -tuffaceous appearance -10% pyrite with some associated PO -pyrite stringers at 70° to core axis -dark grey quartz bleb at 113'7" -2" diameter with assoicated PY&PO -dark grey in colour	75° 70°	10	G89769	112'	114'	2'	615		

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 3 Page 2 of 5

Footage From	Footage To	ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sulphides	SAMPLE Number	SAMPLE From	SAMPLE To	SAMPLE Length (feet)	Analytical Result Au (ppb)	
		-BIM contact 65°								
		114'-116'								
		-brown in colour		3	G89770	114'	116'	2'	14	
		-quartz eyes up to 1/16"								
		-mineralization occurs as blebs								
		116'-141'								
		-quartz eyes less apparent, occur occasionally			G89771	116'	117'	1'	16	
					G89772	117'	122'	5'	15	
		-116'2" large 1" PYPO bleb associated with calcium carbonate stringer			G89773	122'	127'	5'	18	
					G89774	127'	132'	5'	20	
		-118' onward rock is paler in colour		5-8	G89775	132'	137'	5'	23	
		PY&PO occur mostly as blebs approximately 5-8%			G89776	137'	141'	4'	108	
		-some sections appear very siliceous								
		-127'6" 1/2" quartz stringer	65°							
		-138'8" 1" quartz stringer, no mineralization								
		-139'10" 3/4" quartz stringer, rock appears more altered at this stage								
		-141' 1/2" quartz with massive pyrite associated and some blebs of graphite								
		141'-145'4"								
		-tuffaceous			G89777	141'	145'4"	4'4"	96	
		-dark grey to black								
		-interbedded argillaceous bands		8-10						
		-8-10% PY&PO, massive								
		145'4"-148'5"			G89778	145'4"	148'5"	3'1"	19	
		-more heavily altered			G89779	148'5"	154'6"	6'1"	20	
		-147'-148'5"- many pyrrotite bands			G89780	154'6"	159'6"	5'	17	
		-151'4"-1/4" calcium carbonate stringer with potasium (orange mineralization)			G89781	159'6"	161'10"	2'4"	8	
		154'6"-161'10"								
		-tuffaceous BIM contact 30°			G89782	161'10"	166'10"	5'	16	
		-163'6" & 166'6" quartz stringers								
					G89783	166'10"	172'	5'3"	14	
		166'10"-186'								
		-brown altered quartz eyes			G89784	172'	177'	5'	12	
		pyrite and pyrrotite mostly as			G89785	177'	182'	5'	16	
		blebs and fracture filling			G89786	182'	186'	4'	15	

ROBERT S. MIDDLETON EXPLORATION
SERVICES INC.

DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 3 Page 3 of 5

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sulphides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
		186'-190'								
		-tuffaceous	55	10	G89787	186'	190'	4'	15	
		-disseminated pyrite and pyrrotite also large blebs 1 1/2" quartz veins at 187' and 187'10"								
		-well mineralized -10%								
		-BIM contact 55° - large blebs along top side of BIM contact - pyrite and pyrrotite								
190	282	MAFIC TUFF (ANDESITIC)								
		190'-215'9"								
		-rock has changed to a palish grey, mineralization has stopped, only very occasional blebs and some flakes along fracture			G89788	190'	193'	3'	23	
		-fine grained								
		-somewhat altered								
		-locally bleached								
		215'9"								
		-altered								
		-brown in colour	65		G89789	215'9"	218'3"	2'6"	17	
		-mineralized			G89790	218'3"	222'	3'9"	19	
		-similar to section preceeding 190'-215'9"								
		-quartz vein along contact and quartz blebs and pyrrotite								
		-contact appears to be at 65°								
		215'9"-222'								
		-many pyrrotite stringers and blebs locally up to 25% average 3% pyrite: pyrrotite 6:1								
		222'								
		-after 222' mineralization decreases drastically, rock is still brown and altered but only very occasionally								
		-small blebs of pyrite and pyrrotite occur, even these decrease downward so that after 229' rock appears totally								

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DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 3 Page 4 of 5

Footage		ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sulphides	SAMPLE				Analytical Result	
From	To				Number	From	To	Length (feet)	Au (ppb)	
		barren -large and medium quartz eyes apparent from 229'-244', especially at 230'-230'6" and 236' where they are 1/8" diameter -rock banded at 40° - foliation								
		259'-259'6" -brecciated, subangular clasts in matrix of apparently similar composition- -259' onwards-very occasional pyrite and pyrrotite blebs -263' 4" quartz vein with large blebs of pyrite and pyrrotite -sulphides make up 60% of core			G89791	263'	264'4"	1'4"	13	
		265' -low angled pyrite stringers - 1/16" - fracture filling 35°								
		275'-277'6" -low angled lamination 20° -some disseminated pyrite			G89792	275'	277'6"	2'6"	11	
		277'6"-281'6" -many quartz carbonate stringers at 30° -finely laminated pyrite	2%		G89793	277'6"	281'7"	4'1"	11	
282	366'8"	ANDESITIC TUFF -alteration not as evident -no sharp contact with above, alteration seems to decrease sharply after 282' -rock is green with pruplish bands at 35° -fine grained -occasional quartz stringers -minor blebs of pyrite -322' onwards-purplish bands become less frequent and there is some occasional carbonated zones 323'6"-325' -approximately 1" quartz vein running									

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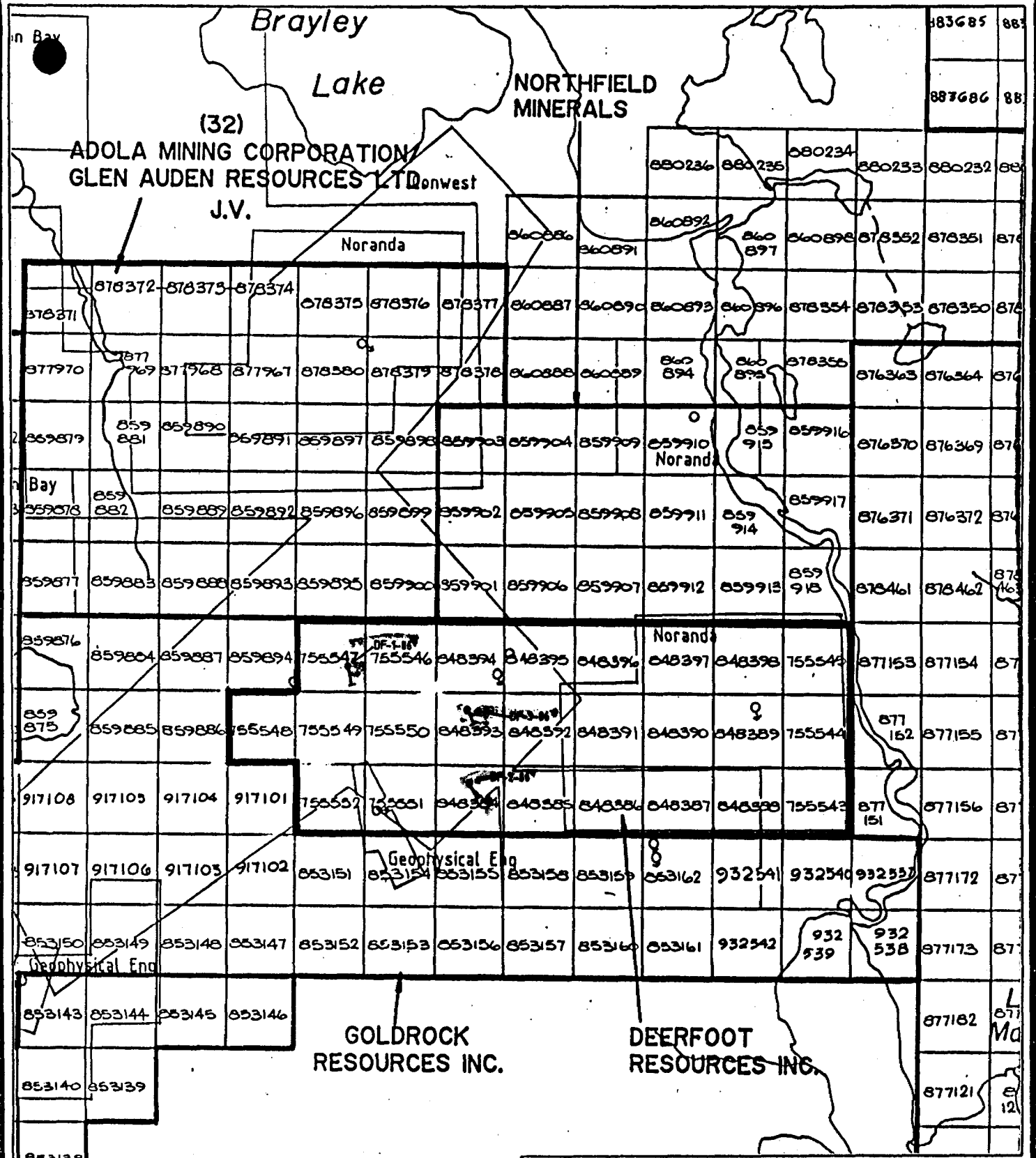
DIAMOND DRILL HOLE LOG

Project Deerfoot Resources - Blakelock M-106

Hole No. 3 Page 5 of 5

Footage From	Footage To	ROCK TYPE AND DESCRIPTION	Core Angle to Axis	% Sul-phides	SAMPLE Number	SAMPLE From	SAMPLE To	SAMPLE Length (feet)	Analytical Result Au (ppb)		
		parallel to core			G89794	323'6"	325'	1'6"	10		
		361'-366'8"									
		-becoming altered									
		-finely banded									
		-some brecciation									
		-brown in colour									
		-little mineralization									
366'8"	371'	MEDIUM GRAINED FELSPATHIC DYKE			G89795	366'8"	371'	4'4"	16		
		-disseminated pyrite throughout approximately 1%									
		-biotite crystals									
		-possibly a porphyry									
		-contacts faulted and ground									
371'	401'	ARGILITE									
		-dark grey in colour									
		-mafic									
		-finely laminated at 25°-35° occasionally at 50°									
		-some localized pyrite blebs									
	401'	END OF HOLE									



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for ASSESSMENT REPORT		
	Title CLAIM MAP & DDH LOCATIONS DEERFOOT RESOURCES PROJECT		Fig.
	Date:	Scale: 1:31680	N.T.S.:
	Drawn:	Approved:	File: M-106

SCALE = 1:1250

RESISTIVITY

CHARGEABILITY

CHARGEABILITY PROFILE

-10 0 10 20 30 40 50

3750

3500

3250

3000

2750

2500

2250

2000

1750

1500

1250

1000

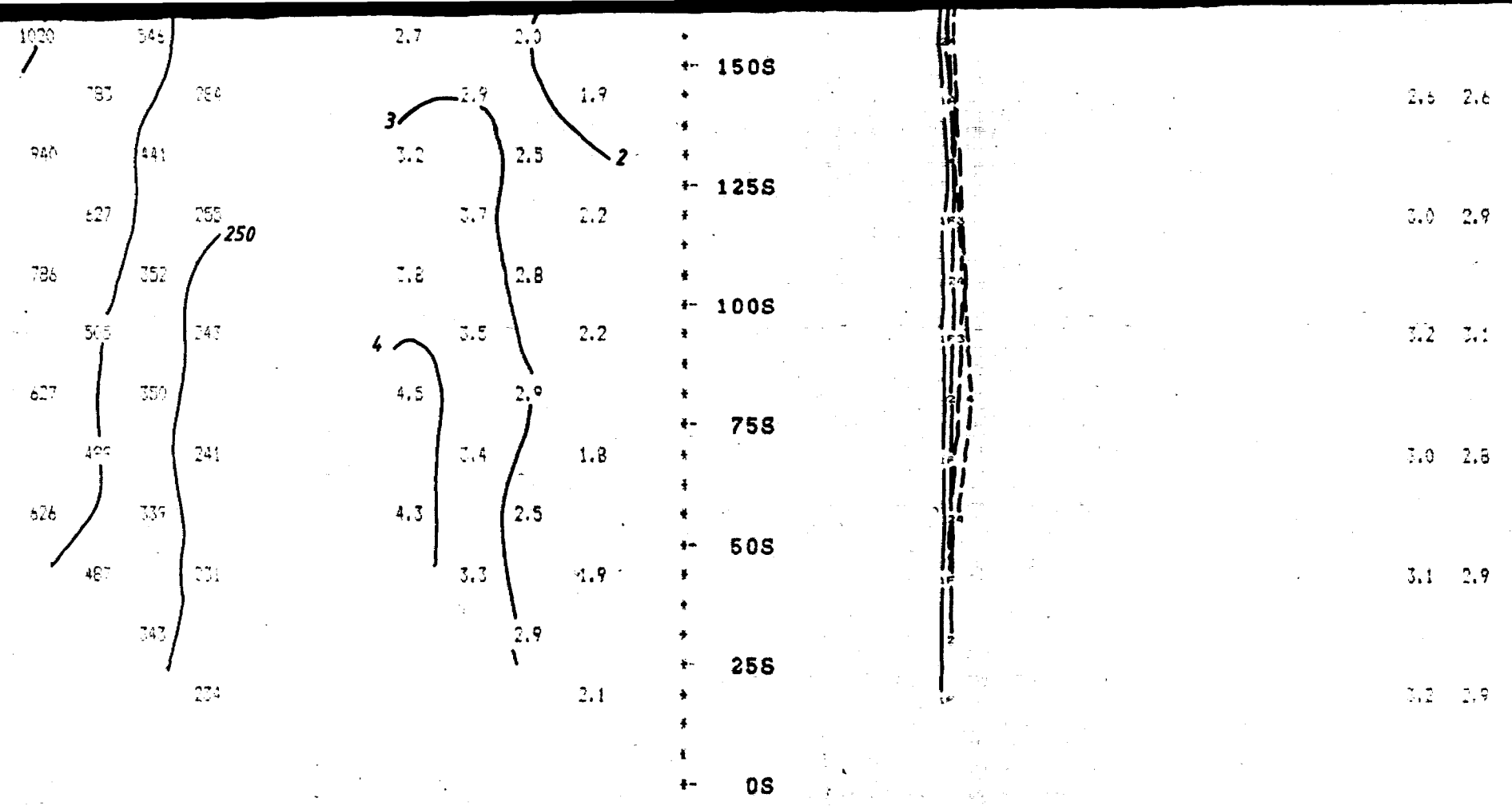
1K

500

500

250

7
8
9
10
11
9
7
5
3
8
6
3
2



Property : BLAKELOCK TWP.

Client : DEERFOOT RESOURCES LTD.

Date of Survey : 25/6/86

Operator : CGK

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

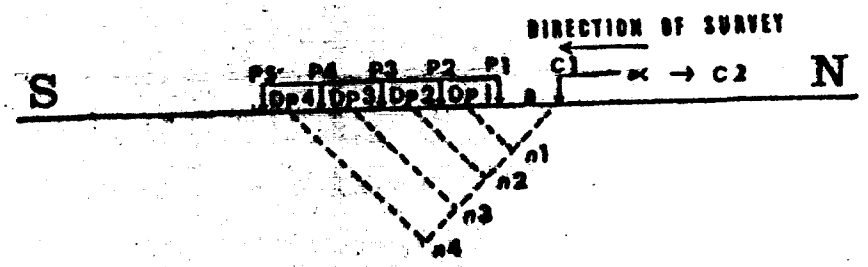
Receiver : SCINTREX IPR-11

Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 360 ms

Integration Time : 780 ms



63.5003

OM86-6-C-018

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R.S. MIDDLETON EXPLORATION SERVICES INC.

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IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 28 W

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

-10 0 10 20 30 40 50

+-1150S

+-1125S

+-1100S

+-1075S

+-1050S

+-1025S

+-1000S

+- 975S

+- 950S

+- 925S

+- 900S

+- 875S

2500

5K

2500

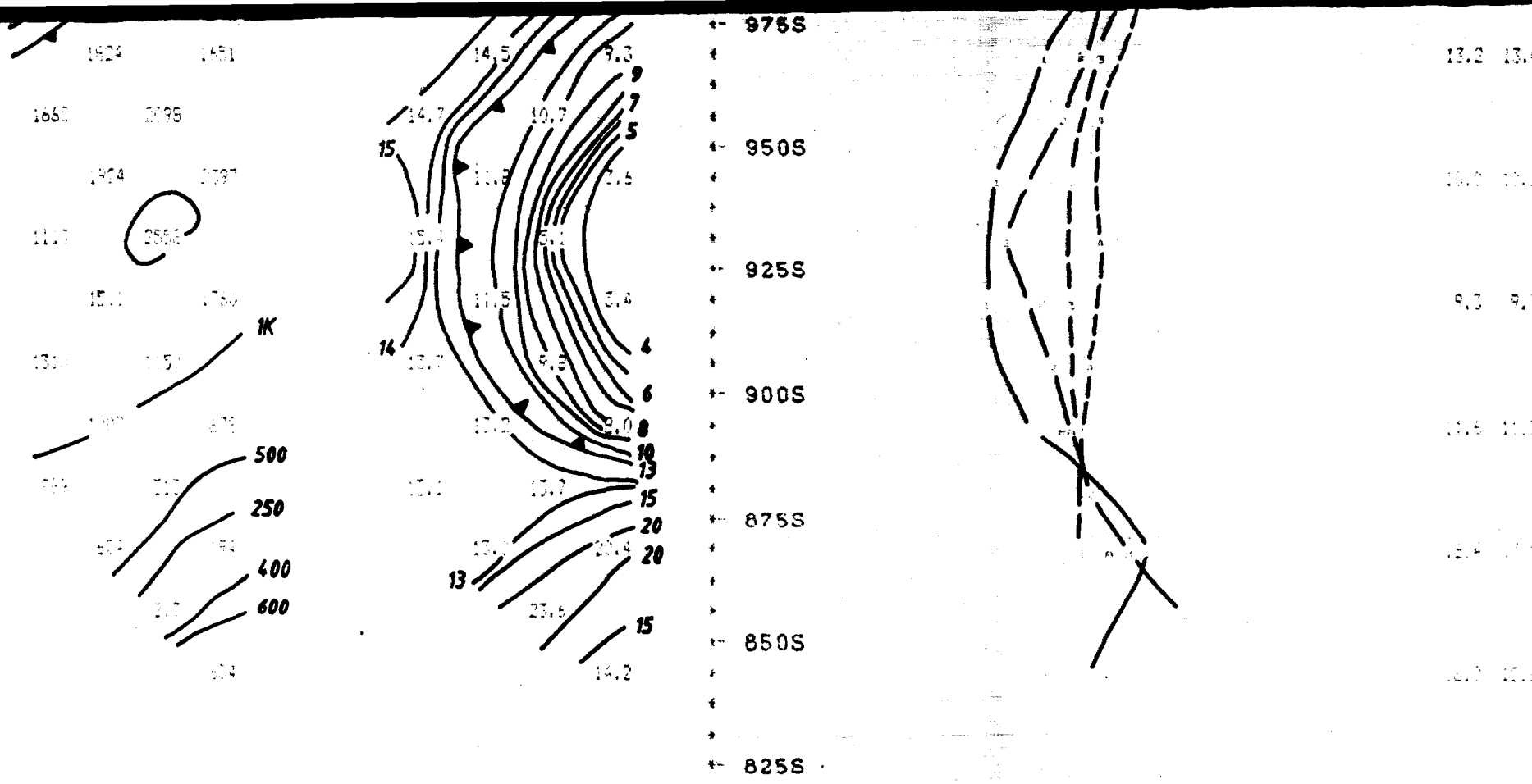
5K

2500

1K

500

250



Property : BLAKELOCK TWP.

Client : DEERFOOT RESOURCES LTD.

Date of Survey : 24/6/86

Operator : CDJ

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

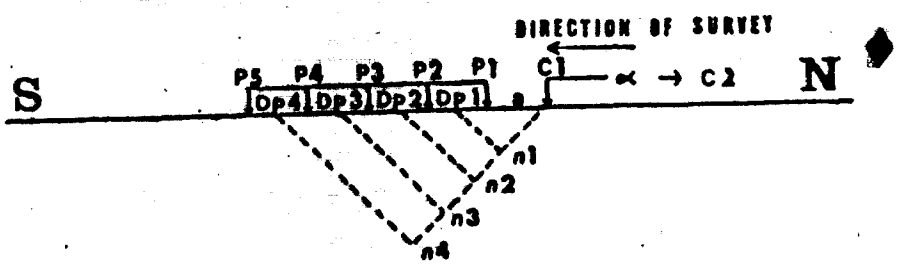
Receiver : SCINTREX IPR-11

Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 360 ms

Integration Time : 780 ms



63.5003

OM86-6-C-018

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R.S. MIDDLETON EXPLORATION

SERVICES INC.

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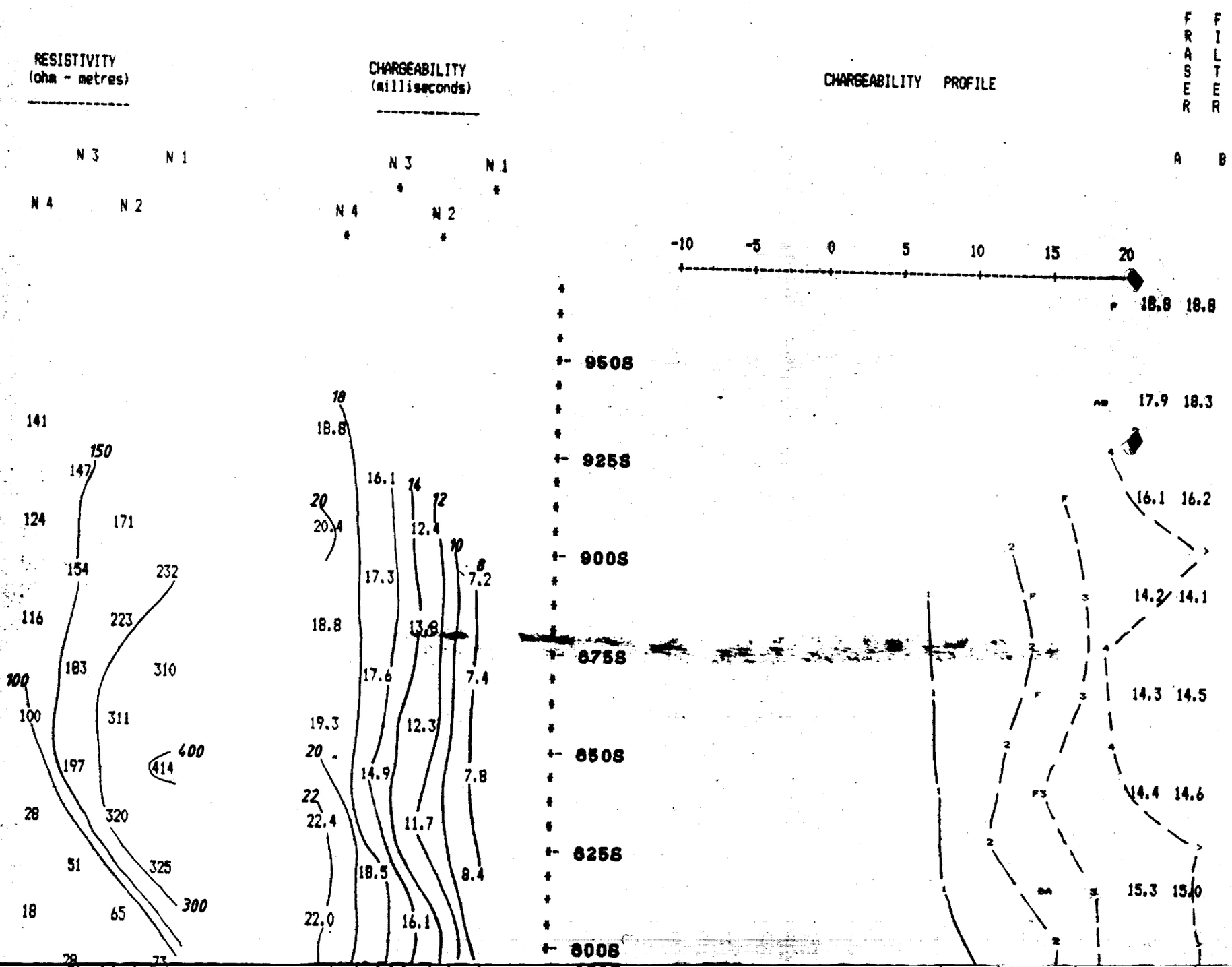
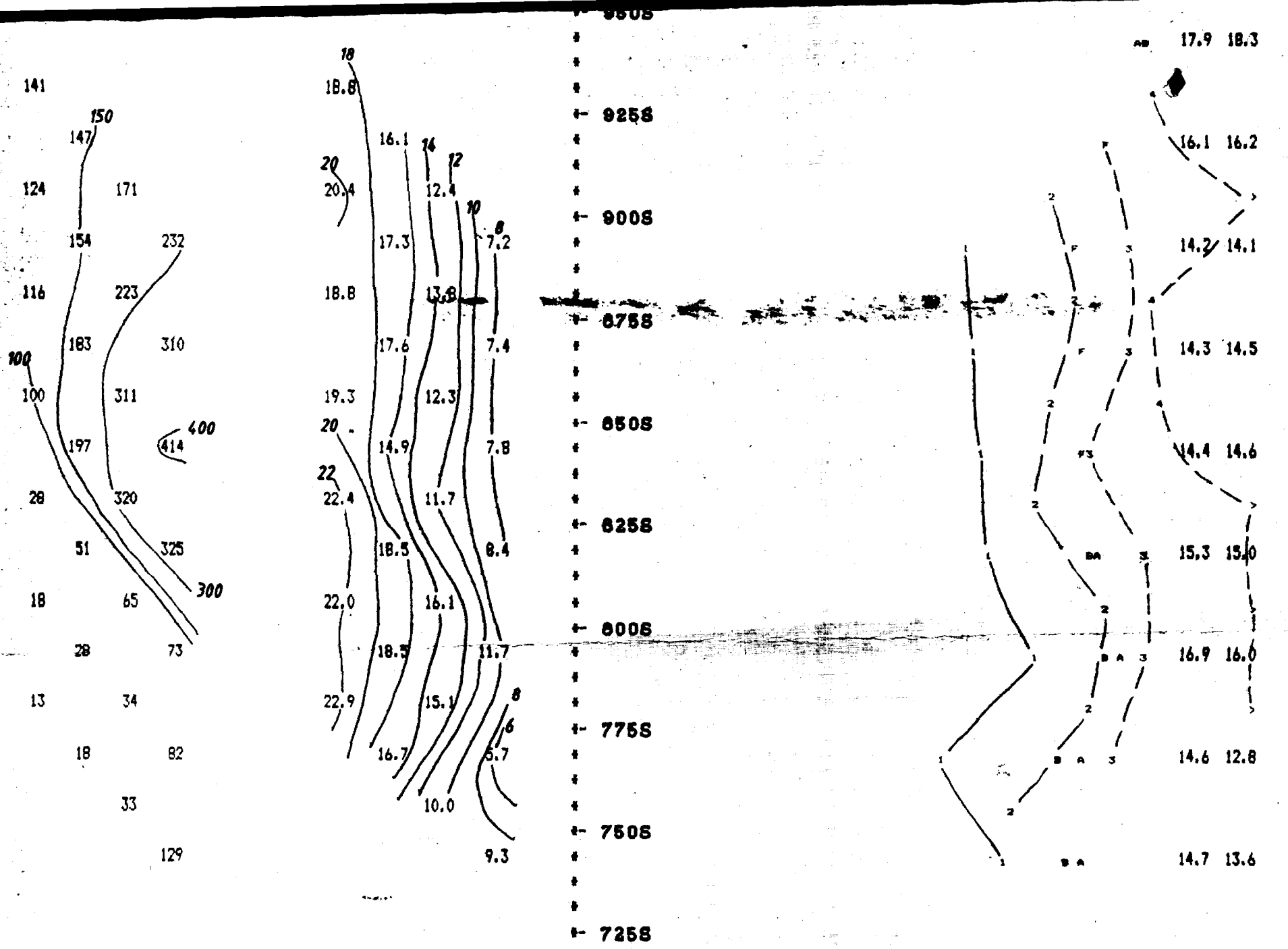
IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 30 W

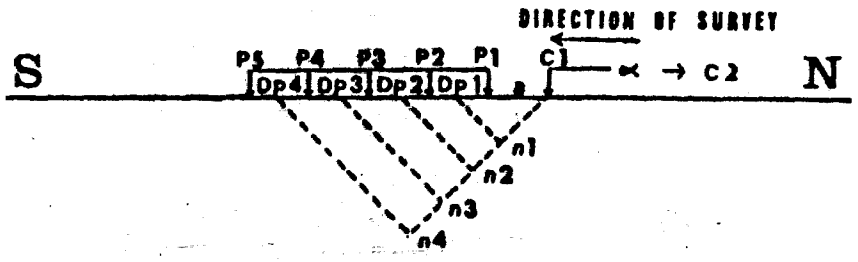
SCALE : 1:1250


RESISTIVITY
(ohm - metres)
CHARGEABILITY
(milliseconds)
CHARGEABILITY PROFILE
FRASER FILTER
N 3
N 1
N 4
N 2
A
B
-10
-5
0
5
10
15
20
9508
9258
9008
8758
8508
8258
8008
141
147
150
124
171
154
232
116
223
183
310
100
100
311
197
400
414
28
320
51
325
300
18
65
18.8
18
16.1
14
20
20.4
12
12.4
10
8
7.2
17.3
18.8
13.8
17.6
7.4
19.3
12.3
20
14.9
7.8
22
22.4
11.7
18.5
8.4
22.0
16.1
18.8
18.8
17.9
18.3
16.1
16.2
14.2
14.1
14.3
14.5
14.4
14.6
15.3
15.0



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 27/7/86
Operator : DGH
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



63.5003
OM86-6-C-018

****

R.S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 21 W

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

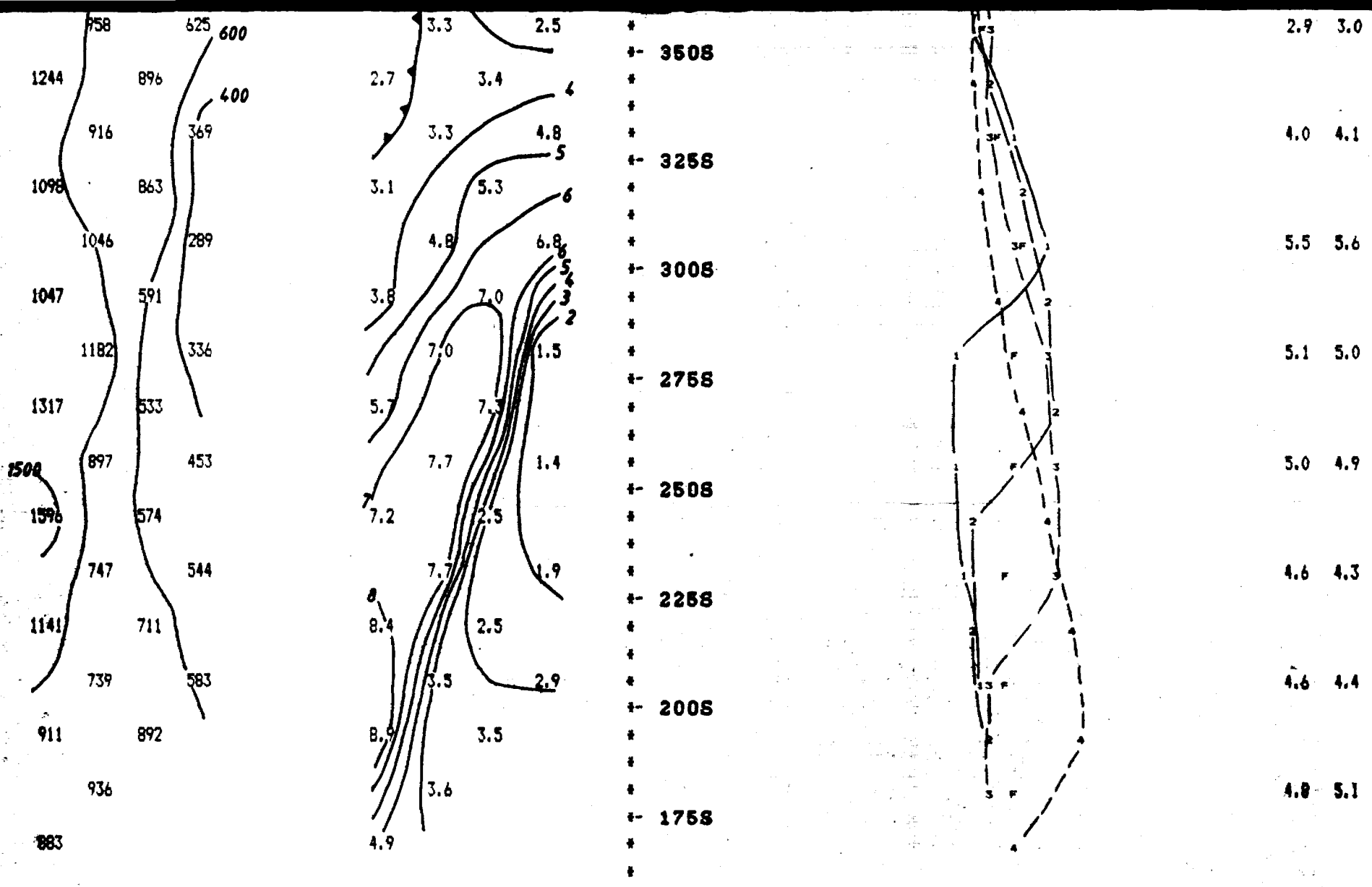
CHARGEABILITY PROFILE

FRASER FILTER

N 3 N 1 N 4 N 2

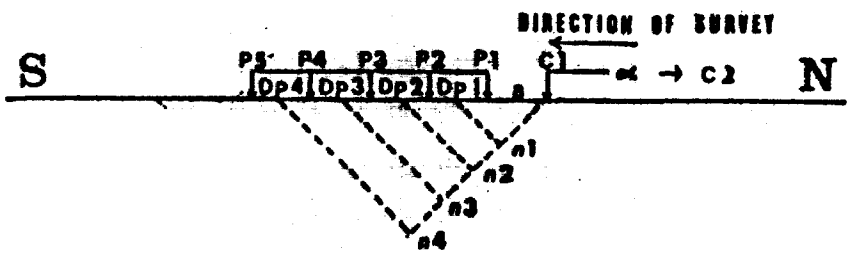
-10 -5 0 5 10 15 20

RESISTIVITY N4	RESISTIVITY N2	CHARGEABILITY N4	CHARGEABILITY N2		FRASER FILTER A	FRASER FILTER B
	418		1.8			
	802		2.9	6758		
859	454	2.7	1.6			
1225	752	2.6	2.2	6508		
1188	468	2.9	1.0		2.1	2.0
1510	797	2.9	1.9	6258		
1145	451	2.6	1.0		2.0	1.9
1520	755	2.6	1.6	6008		
1107	552	2.2	1.3		1.9	1.9
1481	983	2.3	1.3	5758		
1014	464	2.0	1.6		1.9	1.9
1429	992	2.3	2.0	5508		
1083	395	1.8	2.3		2.3	2.3
1343	832	2.0	2.7	5258		
1425	378	2.4	2.1		2.4	2.4
1393	780	2.2	2.5	5008		
1244	418	2.6	1.0		2.2	2.2
1894	667	2.9	2.3	4758		
1109	493	2.8	1.2		2.2	2.2
1566	686	3.3	1.6	4508		
896	466	3.0	1.9		2.4	2.4
1401	817	3.2	1.8	4258		
940	546	2.6	2.4		2.6	2.6
1125	822	3.4	2.4	4008		
1062	629	3.0	2.2		2.7	2.7
1151	756	2.5	2.6	3758		
958	625	3.3	2.5		2.9	3.0
1244	896	2.7	3.4	3508		
916	369	3.3	4.8		4.0	4.1
1098	863	3.1	5.3	3258		
1046	289	4.8	6.8		5.5	5.6
1047	591	3.8	7.0	3008		
1182	336	7.0	1.5		5.1	5.0



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 26/7/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



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OM86-6-C-018

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R.S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 3 W

SCALE : 1:1250

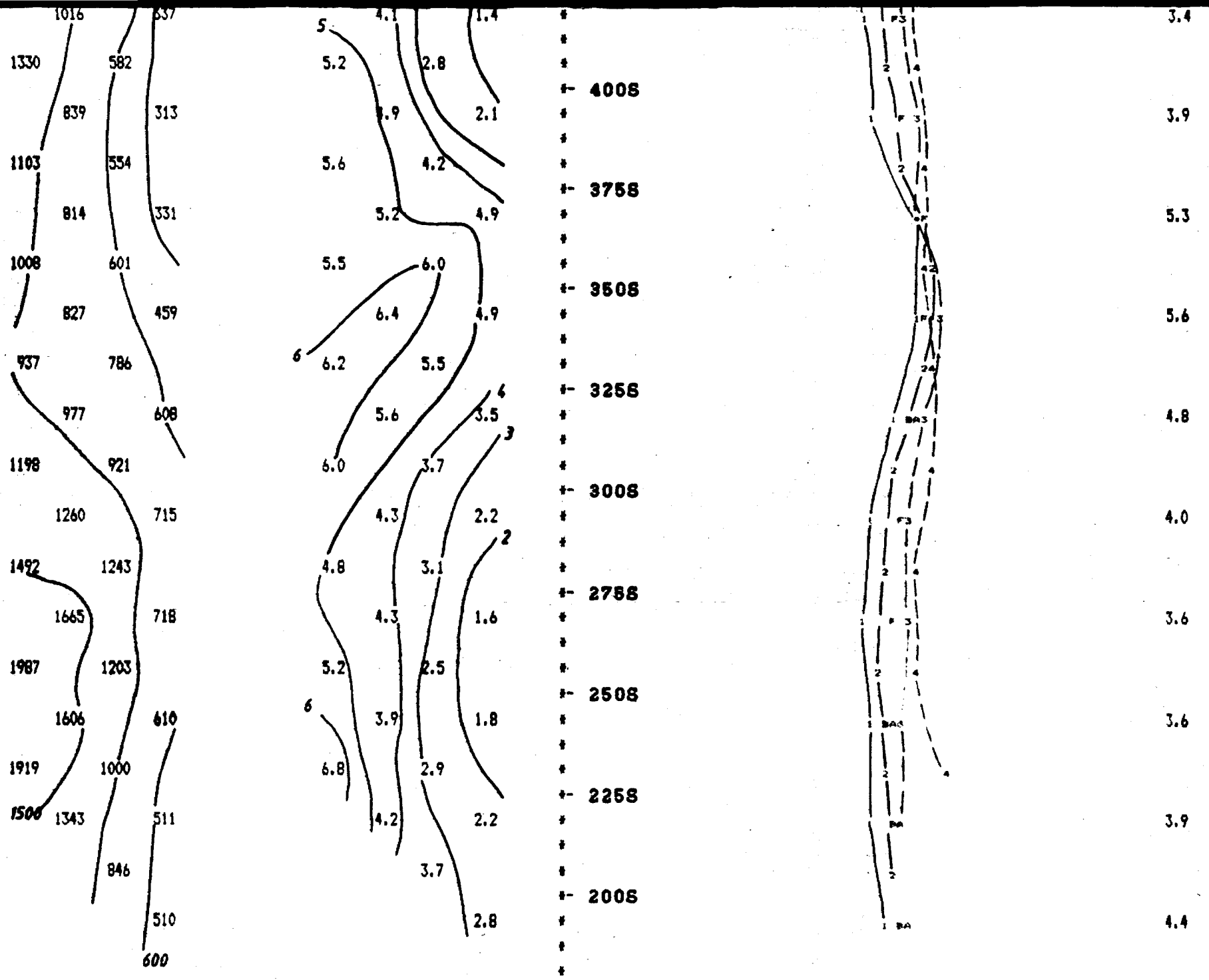
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

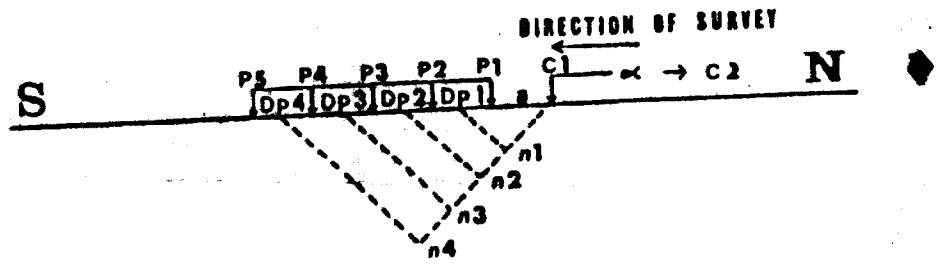
FRASER FILTER

	N 3	N 1	N 3	N 1	-10 -5 0 5 10 15 20	A	B
	N 4	N 2	N 4	N 2			
						4.4	4.4
7258							
						3.6	3.5
7008							
						3.6	3.9
	1998	1534 1500	4.0	3.0			
6758							
	1952	1177 1K	4.0	1.9		3.4	3.4
	2127	2002	4.7	3.2			
6508							
	2460	459	4.6	2.2		3.5	3.3
	2533	1046	5.1	2.7			
6258							
	1207	820	4.3	2.4		3.3	3.2
	1340	1166	4.0	2.9			
6008							
	1439	950	3.0	2.8		3.4	3.6
	1728	1297	2.6	3.4			
5758							
	1716	1076	3.2	2.9		3.5	3.7
	1635	1598	4.0	3.4			
5508							
	1533	1033	5.1	2.8		4.0	3.9
	1702	1018	5.1	5.1			
5258							
	1182	720	5.3	4.8		5.0	4.9
	1335	1023	5.6	4.9			
5008							
	1339	776	5.4	4.2		4.8	4.7
	1572	1196	5.4	4.4			
4758							
	1584	540	4.7	1.6		3.8	3.8
	2013	828	4.9	2.9			
4508							
	1141	416 400	4.0	2.1		3.6	3.7
	1444	715	4.6	2.7			
4258							



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 26/7/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



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OM86-6-C-018

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R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 5 W

SCALE : 1:1250

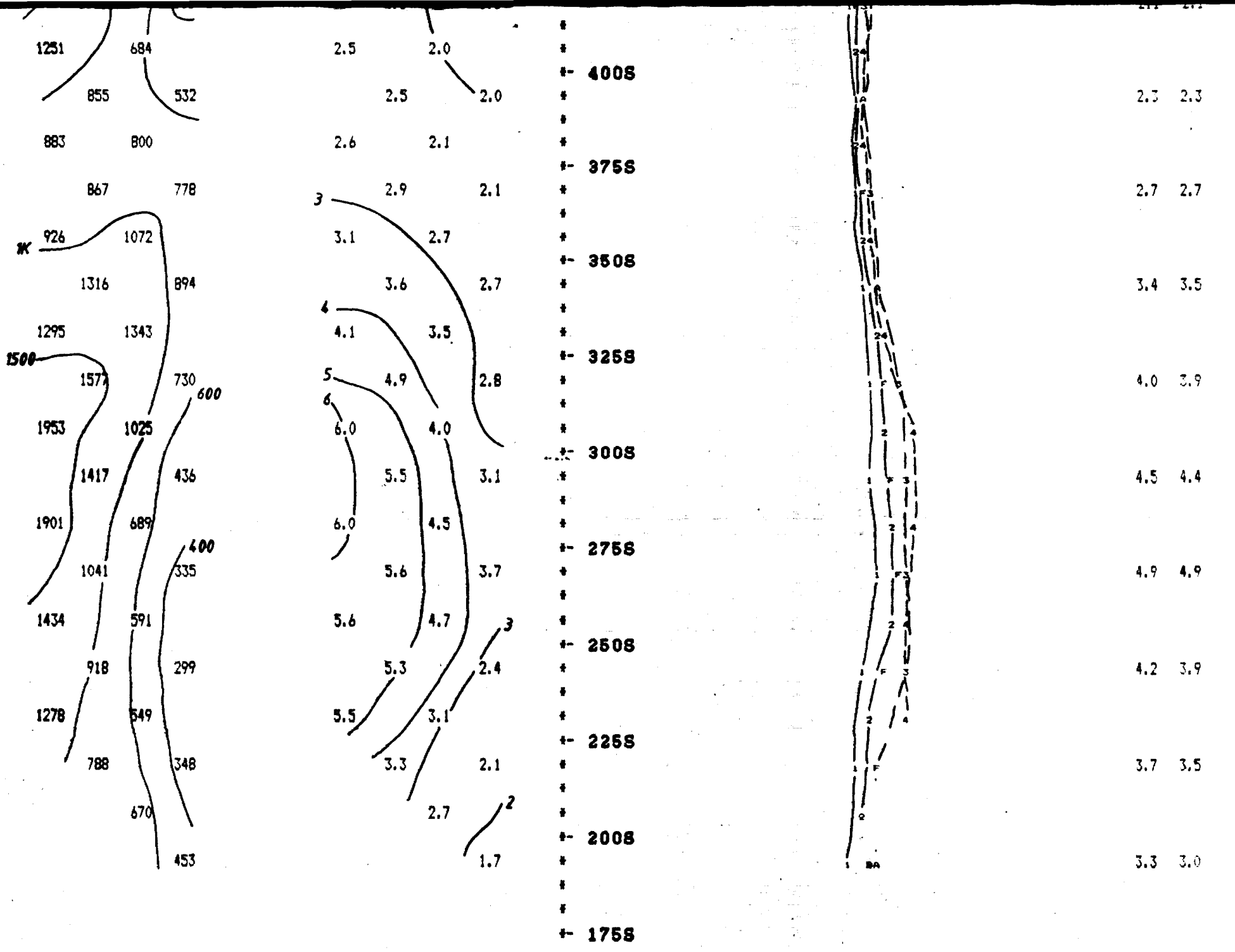
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

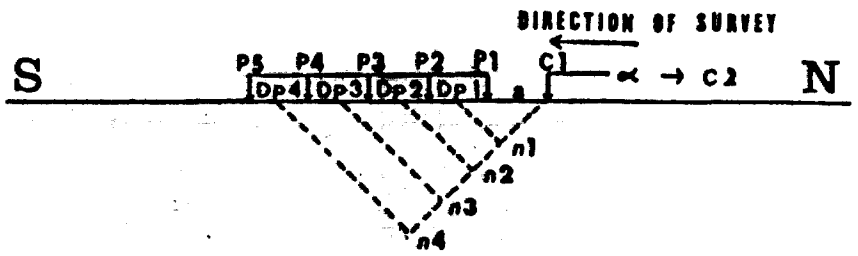
FRASER FILTER

N 3	N 1	N 3	N 1	-10 -5 0 5 10 15 20	A	B
N 4	N 2	N 4	N 2			
				7+00S	1.5	1.4
				7200S	1.7	1.7
1386		1.4				
1110	1K	1.9		7000S	1.5	1.4
1535	678	1.4	1.3	6800S		
1024	385	1.3	1.2	6600S	1.4	1.4
1307	739	1.7	1.3	6400S		
1051	530	1.3	1.2	6200S	1.3	1.3
1233	935	1.3	1.1	6000S		
1209	612	1.6	1.2	5800S	1.3	1.4
1464	975	1.3	1.1	5600S		
1312	841	1.7	1.3	5400S	1.4	1.4
1511	1362	1.6	1.3	5200S		
1763	1045	1.6	1.5	5000S	1.6	1.6
2003	1713	1.7	1.5	4800S		
2187	726	1.9	1.4	4600S	1.6	1.6
2458	1127	1.8	1.3	4400S		
1375	884	1.9	1.6	4200S	1.8	1.8
1654	1227	1.7	1.6	4000S		
1573	636	2.1	1.5	3800S	1.8	1.8
2048	975	2.3	1.7	3600S		
1401	540	2.0	1.5	3400S	1.9	1.8
1863	936	2.3	1.7	3200S		
1392	416	2.0	1.6	3000S	2.0	2.0
1829	791	2.3	1.8	2800S		
1103	581	2.7	1.4	2600S	2.1	2.1



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 25/7/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



63.5003
OM86-6-C-018

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R.S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 2 W

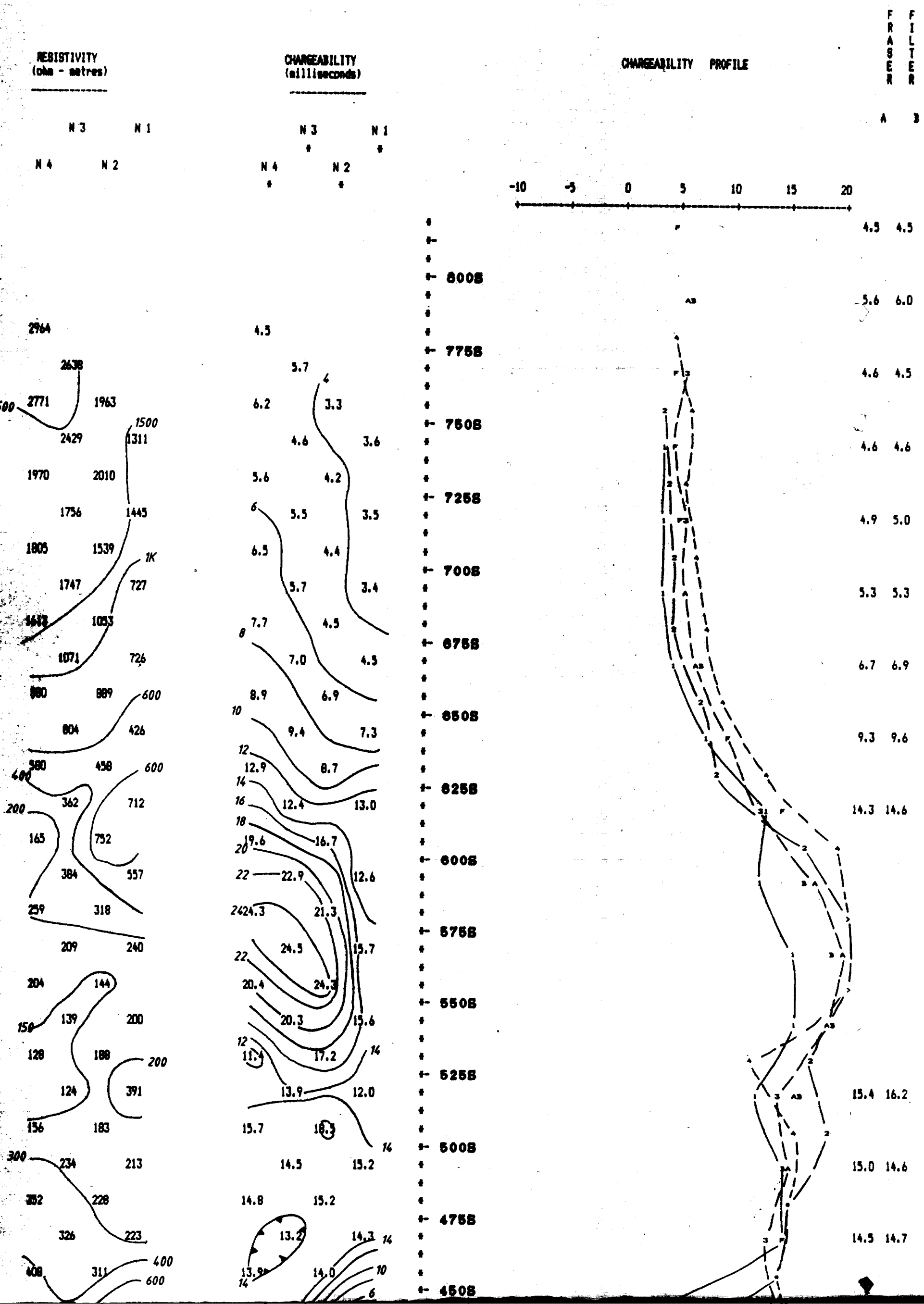
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

FRASER FILTER



SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

FRASER FILTER

N 3 N 1 N 4 N 2

-10 -5 0 5 10 15 20

8008 7758 7508 7258 7008 6758 6508 6258 6008 5758 5508 5258 5008 4758 4508

2964 2638 2771 1963 2429 1970 2010 1756 1445 1805 1539 1747 727 726 880 889 804 426 560 458 362 712 165 752 384 557 259 318 209 240 204 144 139 200 128 188 124 391 156 183 234 213 352 228 326 223 408 311

2500 1500 1K 600 400 200 300

4.5 5.7 6.2 3.3 4.6 3.6 5.6 4.2 5.5 3.5 6.5 4.4 5.7 3.4 7.7 4.9 7.0 4.5 8.9 6.9 9.4 7.3 12.9 8.7 12.4 13.0 19.6 16.7 22.9 12.6 24.3 21.3 24.5 15.7 20.4 24.3 20.3 15.6 11.4 17.2 13.9 12.0 15.7 14.5 15.2 14.8 15.2 13.2 14.3 13.9 14.0

4 6 8 10 12 14 16 18 20 22 24 14 10 6

4.5 4.5
5.6 6.0
4.6 4.5
4.6 4.6
4.9 5.0
5.3 5.3
6.7 6.9
9.3 9.6
14.3 14.6
15.4 16.2
15.0 14.6
14.5 14.7

SCALE : 1:1250

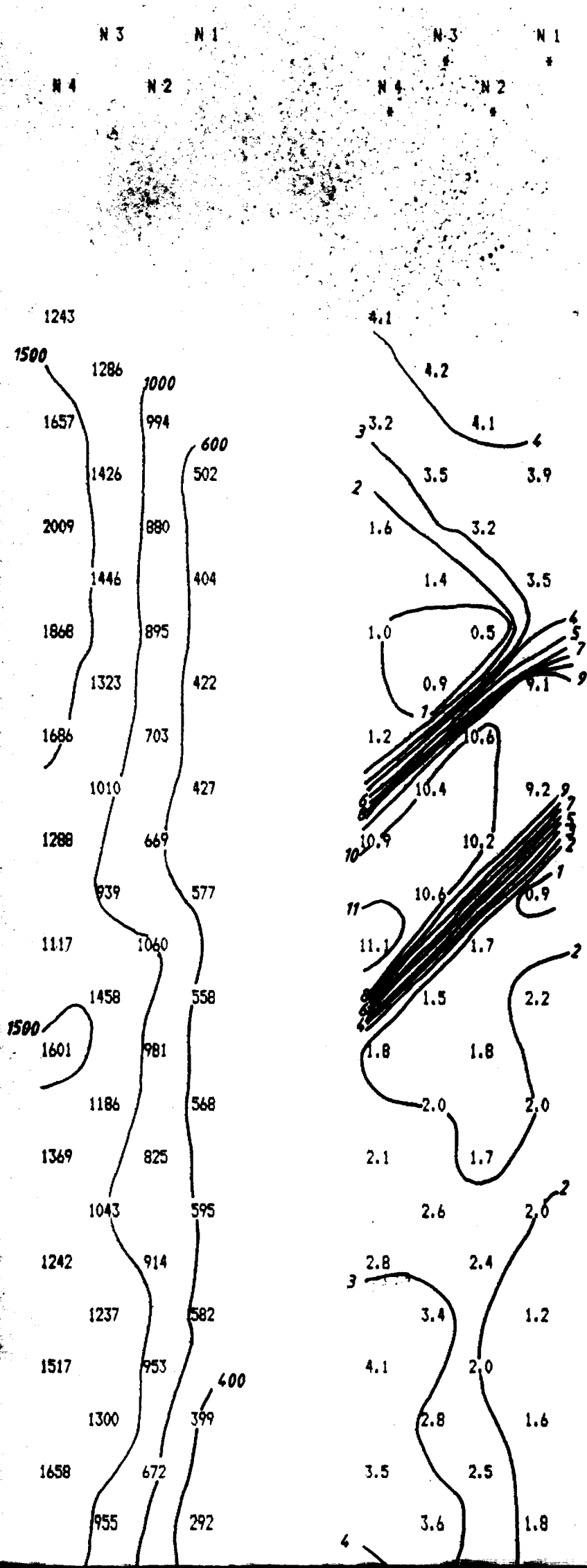
RESISTIVITY
(ohm - metres)

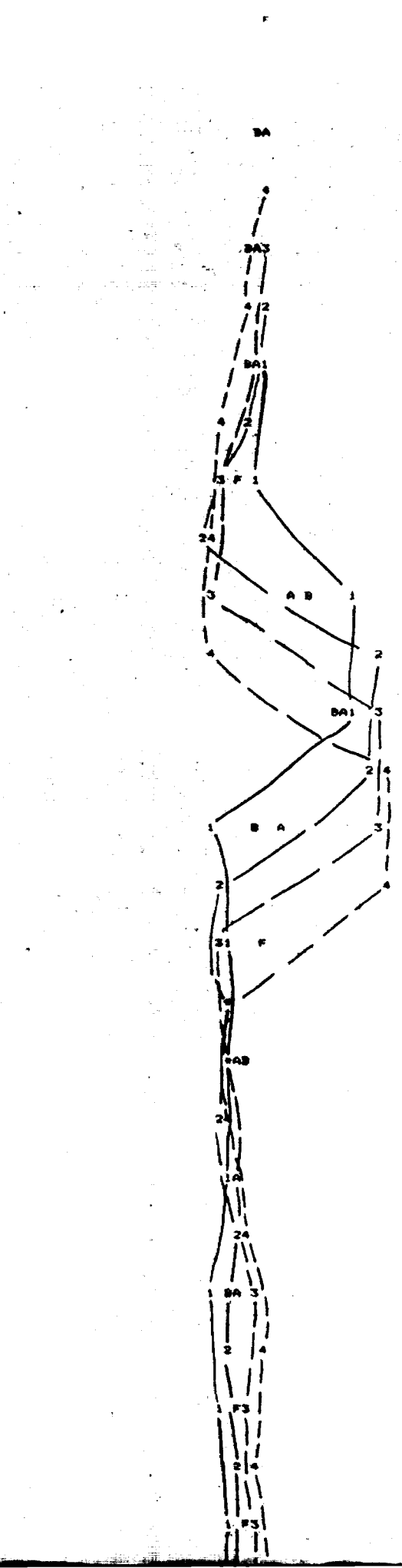
CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

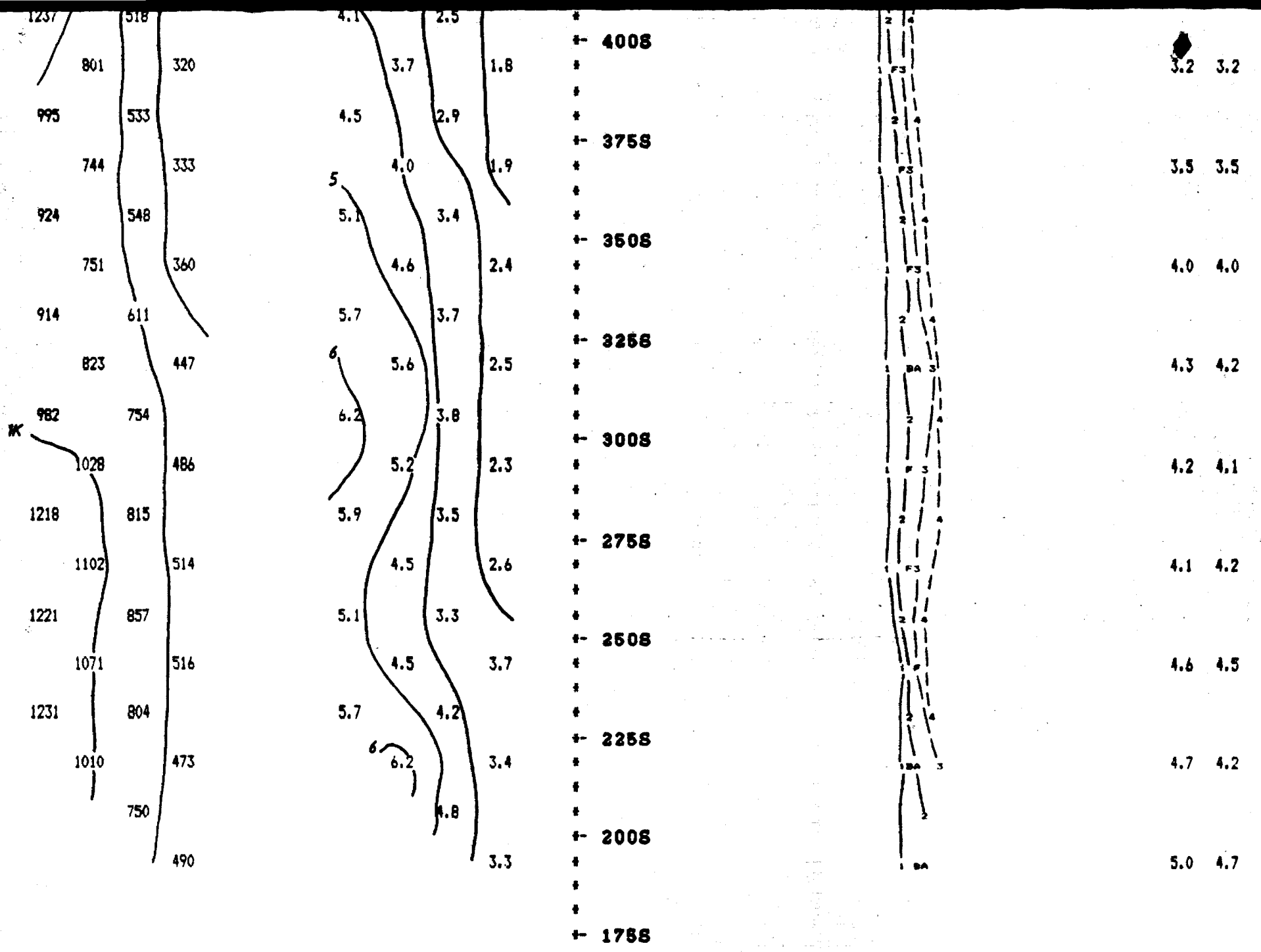
FRASER FILTER

A B



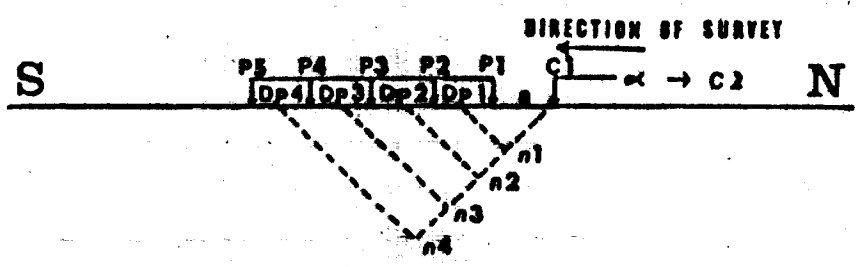


4.1	4.1
4.0	3.7
3.7	3.1
3.3	3.2
2.3	2.4
5.7	6.7
8.3	7.9
5.2	3.6
3.8	4.2
2.6	3.2
2.4	2.4
2.4	2.2
2.7	2.7
	3.0



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 25/7/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



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****

R.S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 4 W

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

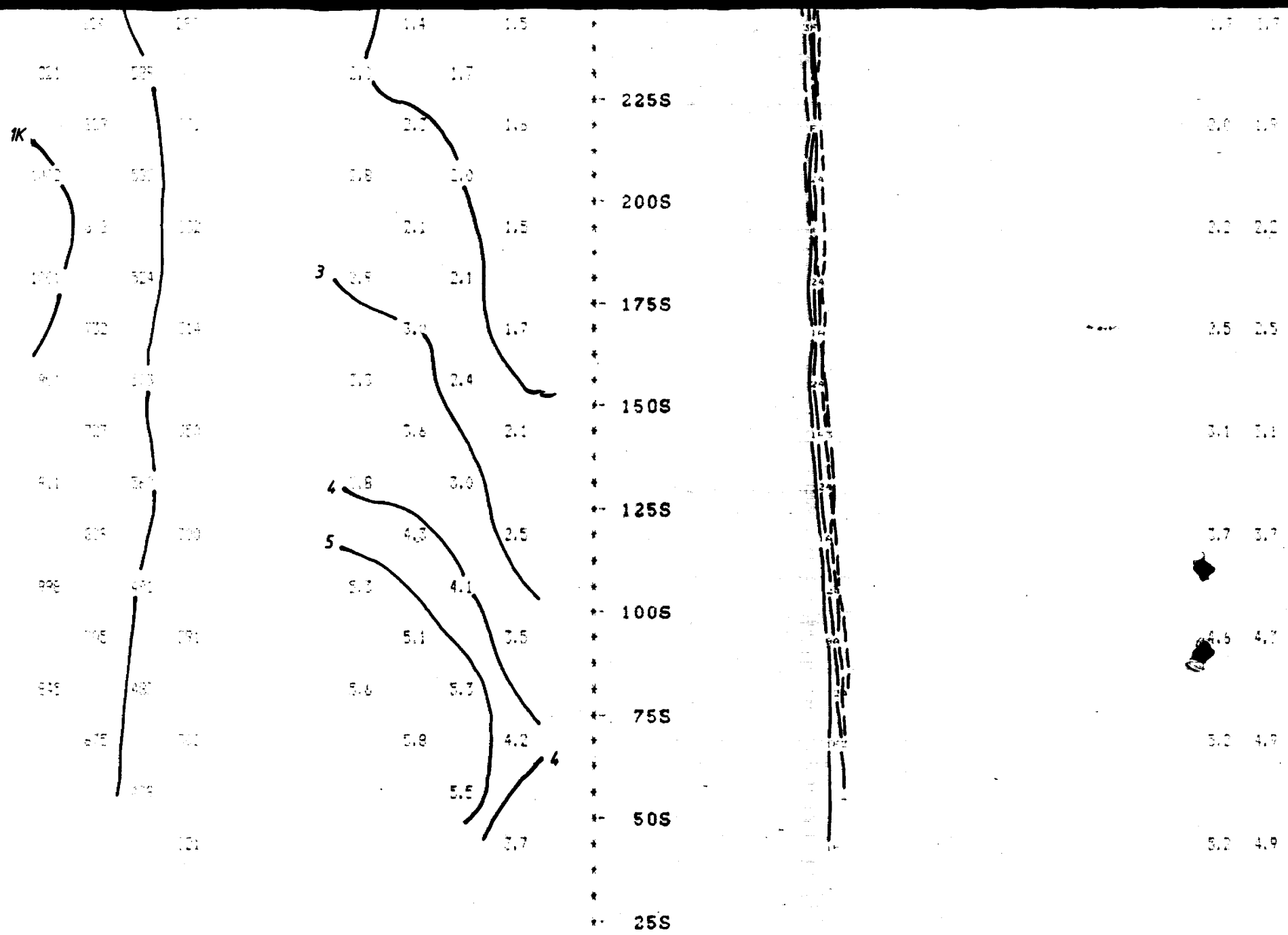
CHARGEABILITY PROFILE

N 3 N 1 N 4 N 2

-10 0 10 20 30 40 50

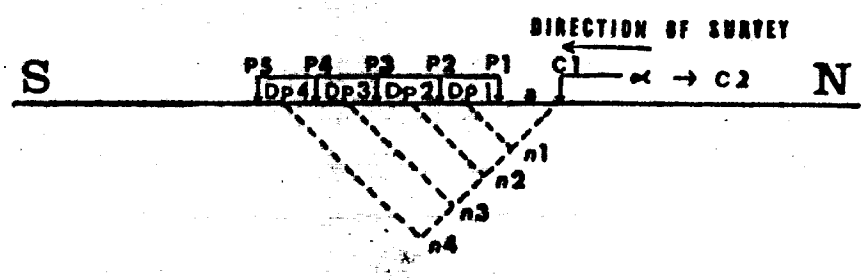
525S
500S
475S
450S
425S
400S
375S
350S
325S
300S
275S
250S

500 1K 20 15 10 9 7 5 3 2 1 0 8 6 4



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES LTD.

Date of Survey : 27/6/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



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R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 24 W

SCALE : 1:1250

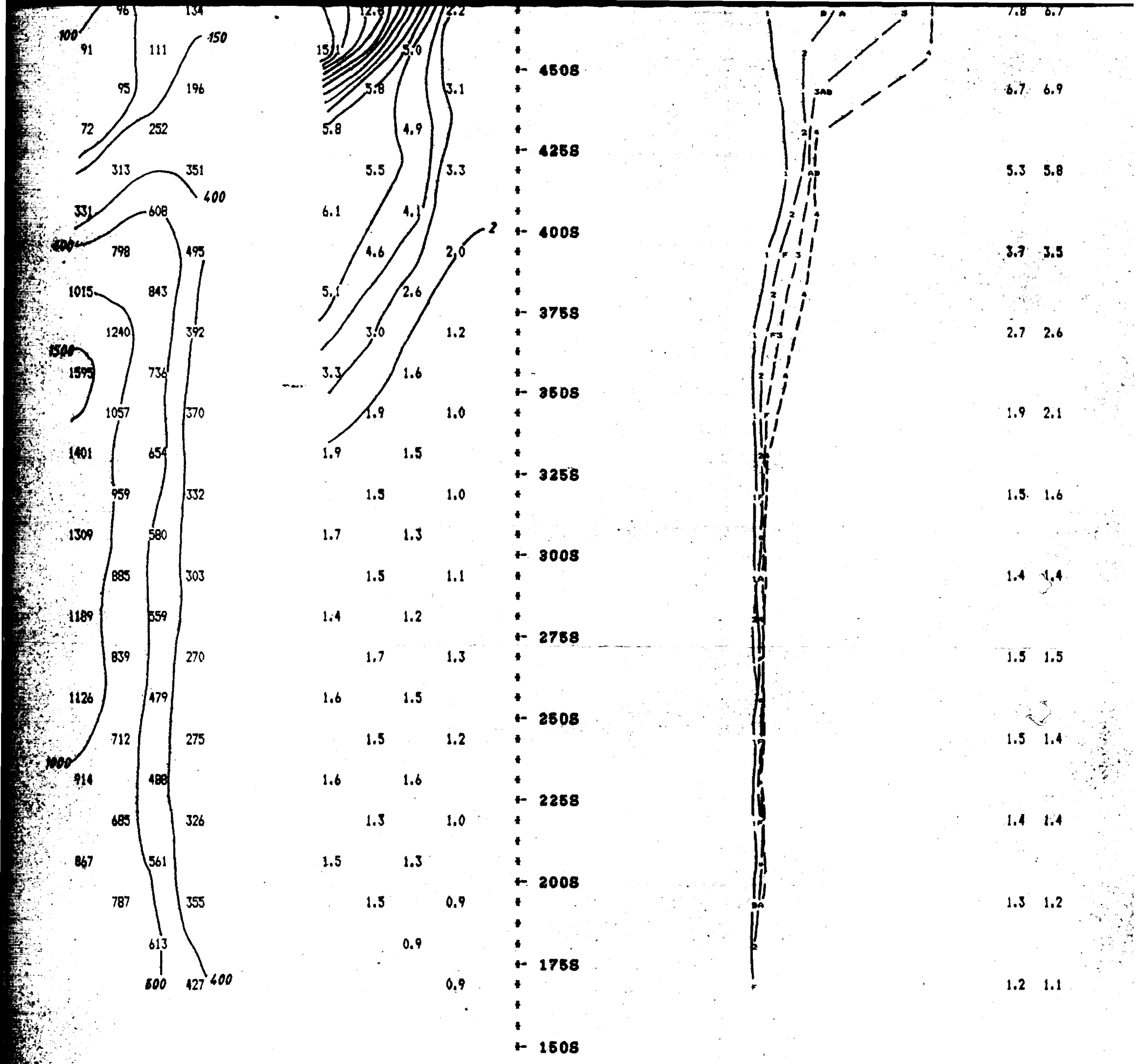
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

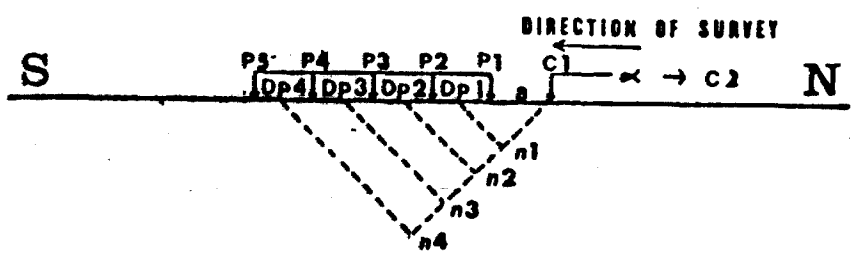
FRASER FILTER

	N 3	N 1	N 3	N 1				A	B
	N 4	N 2	N 4	N 2	-10	-5	0	5	10	15	20		
												9.1	9.1
					8758								
												7.6	7.4
					8508								
												6.5	6.5
					8258								
												5.8	5.9
					8008								
												6.1	6.2
					7758								
												6.6	6.8
					7508								
												7.5	7.3
					7258								
												9.2	8.8
					7008								
												10.1	10.2
					6758								
												7.5	7.2
					6508								
												4.7	4.5
					6258								
												3.5	3.9
					6008								
												3.6	4.1
					5758								
												4.5	4.5
					5508								
												6.2	6.1
					5258								
												8.6	8.7
					5008								
												9.4	9.1
					4758								



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 27/7/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



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OM86-6-C-018

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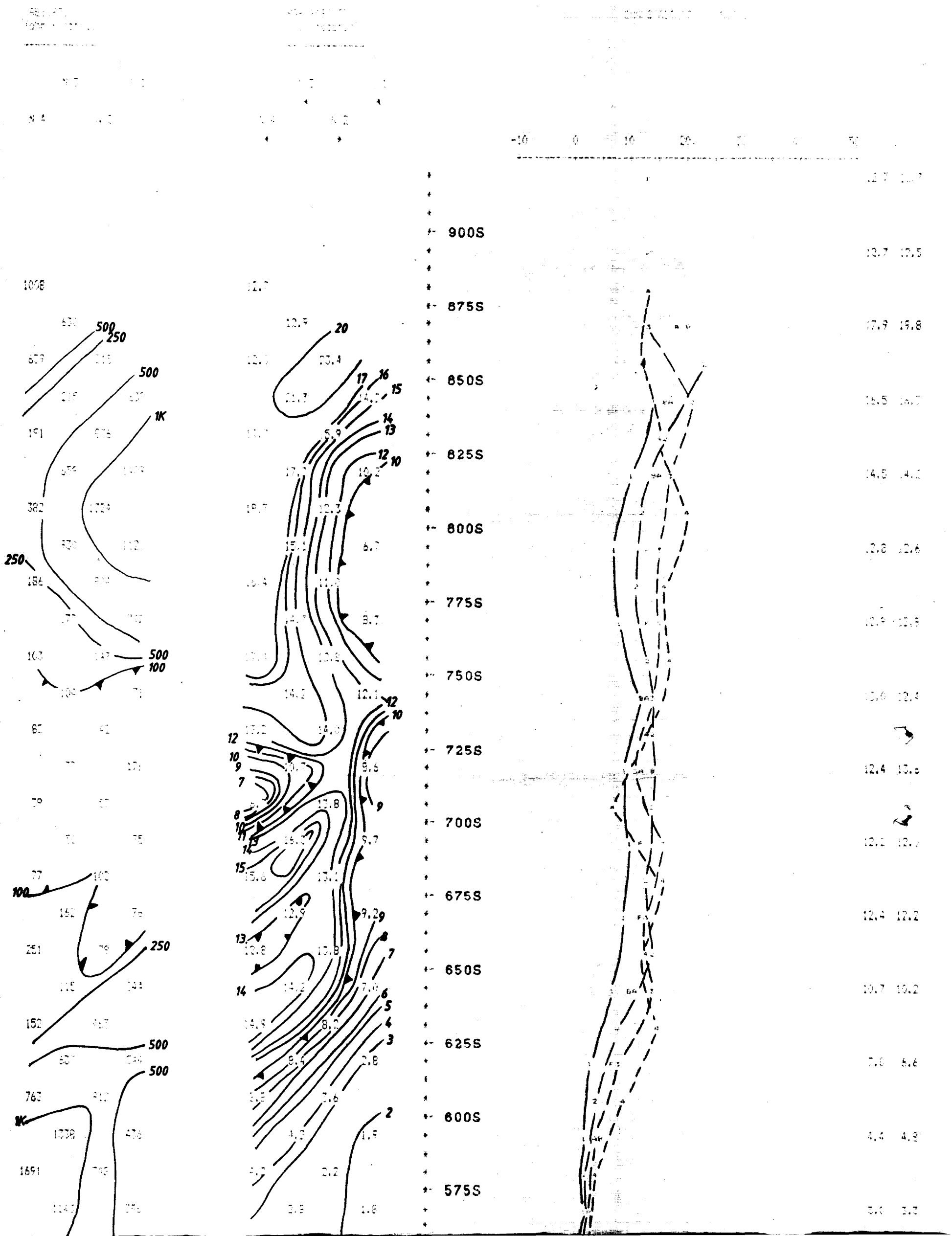
R.S. MIDDLETON EXPLORATION SERVICES INC.

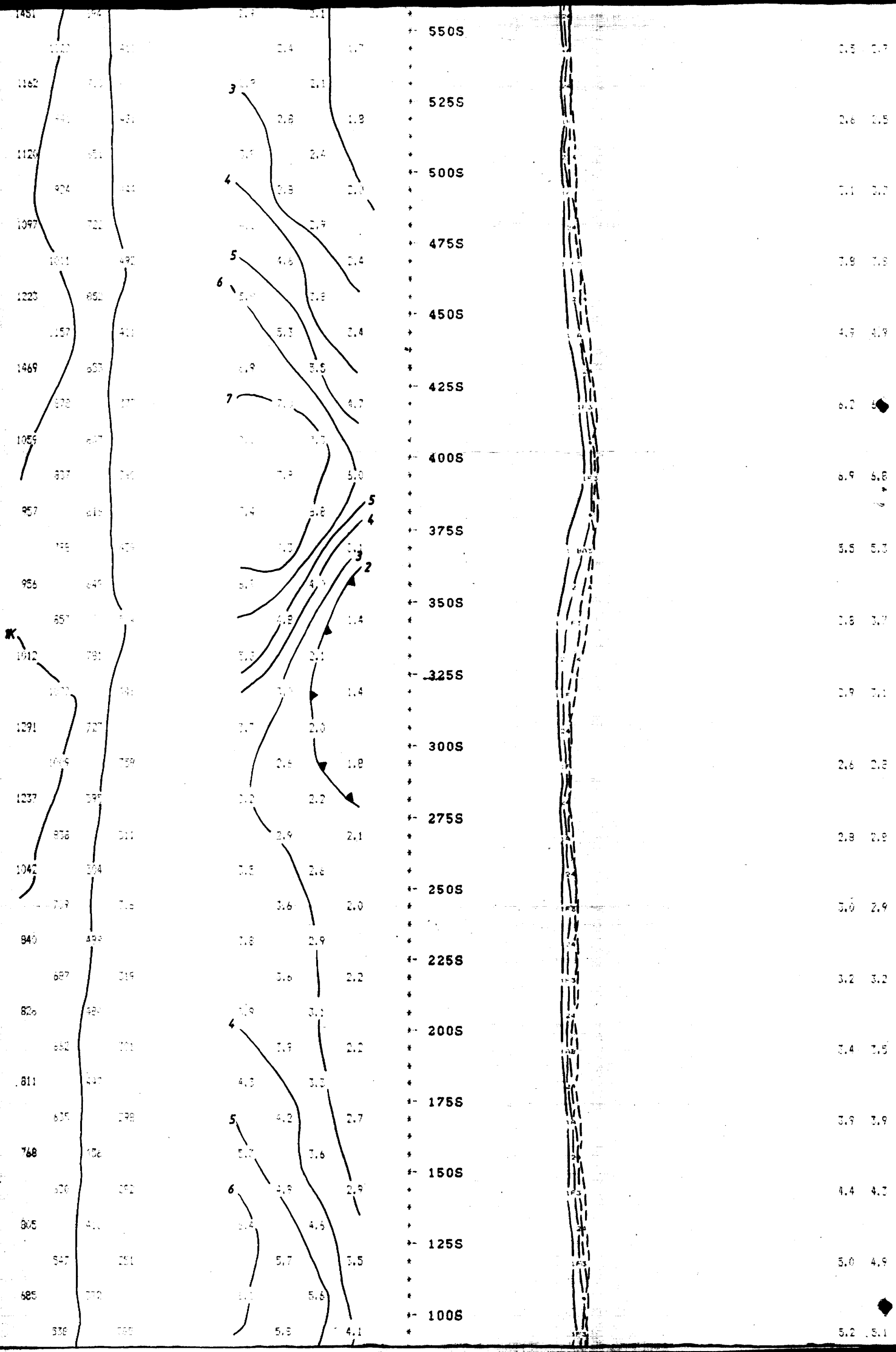
****

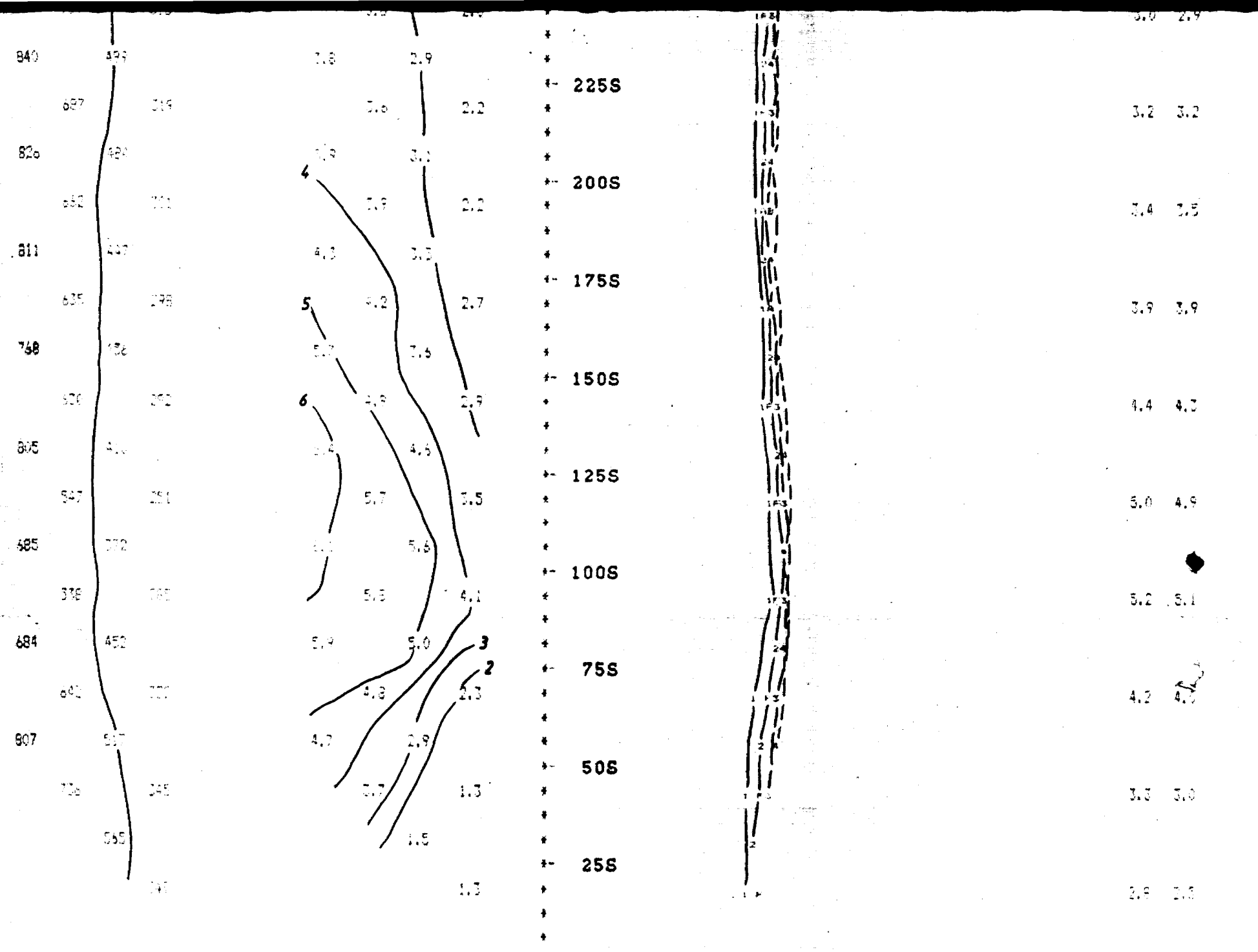
IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 19 W

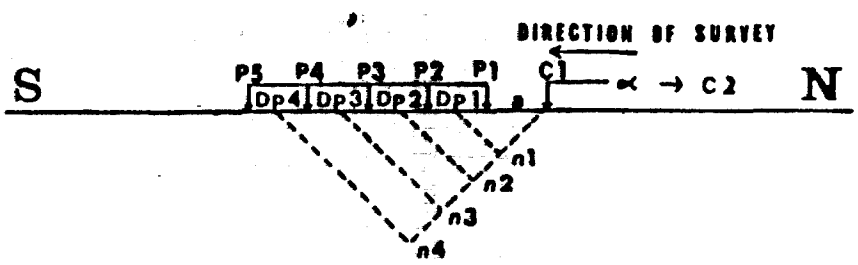

900S
875S
850S
825S
800S
775S
750S
725S
700S
675S
650S
625S
600S
575S


550S
525S
500S
475S
450S
425S
400S
375S
350S
325S
300S
275S
250S
225S
200S
175S
150S
125S
100S



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES LTD.

Date of Survey : 05/6/86
Operator : SGS
Electrode Array : POLE-DIPOLE
Mode : TIME DOMAIN
Receiver : GDD RT-2
Transmitter : GDD TX-1
Pulse Width : 2 sec
Delay Time : 2 sec
Integration Time : 20 sec



63.5003
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MIDDLETON EXPLORATION SERVICES INC.

Pseudosections for N = 1 to 5

Spacing = 25 M

LINE 30 W

SCALE : 1 : 1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

FRASER FILTER

A B

-10 0 10 20 30 40 50

N 3 N 2 N 1

1K

13 12 11 9 8 7 6 5 4 3 10 7 8 9 10 11 5

13.1 13.1

13.2 13.2

12.3 12.1

11.0 10.9

9.5 9.3

8.9 8.8

8.2 8.2

7.5 7.4

7.9 7.8

8.5 8.6

8.1 8.0

8.6 8.6

8.6 8.7

8.7 8.7

1150S

1125S

1100S

1075S

1050S

1025S

1000S

975S

950S

925S

900S

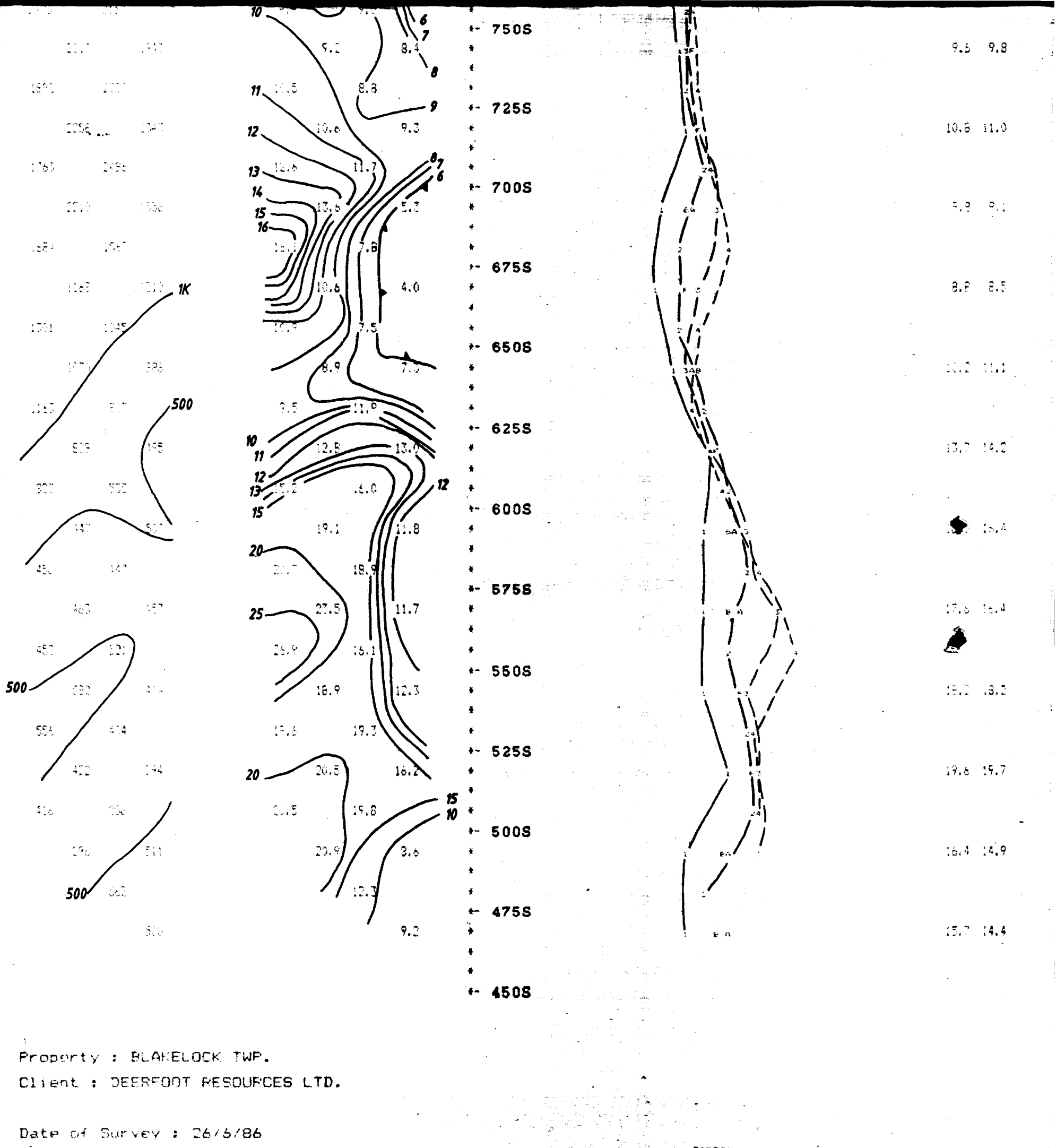
875S

850S

825S

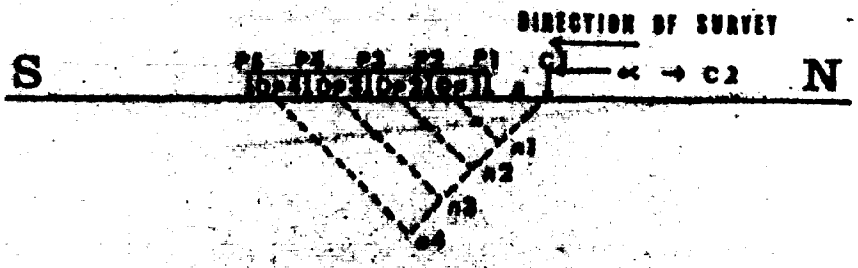
800S

775S



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES LTD.

Date of Survey : 26/6/86
Operator : CDJ
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



63.5003
OM86-6-C-018

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 24 W

+- 3605

5.1 4.5

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

F F
R° I
A L
S T
E E
R R

A B

N 3 N 1

N 4 N 2

-10 0 10 20 30 40 50

21.0 21.0

17.2 15.3

15.1 15.3

8.4 9.9

12.0 14.1

10.9 13.1

9.1 8.2

6.0 6.7

8.3 9.5

10.4 9.3

7.0 8.6

9.0 8.7

8.8 10.4

+-1125S

+-1100S

+-1075S

+-1050S

+-1025S

+-1000S

+- 975S

+- 950S

+- 925S

+- 900S

+- 875S

+- 850S

+- 825S

5k

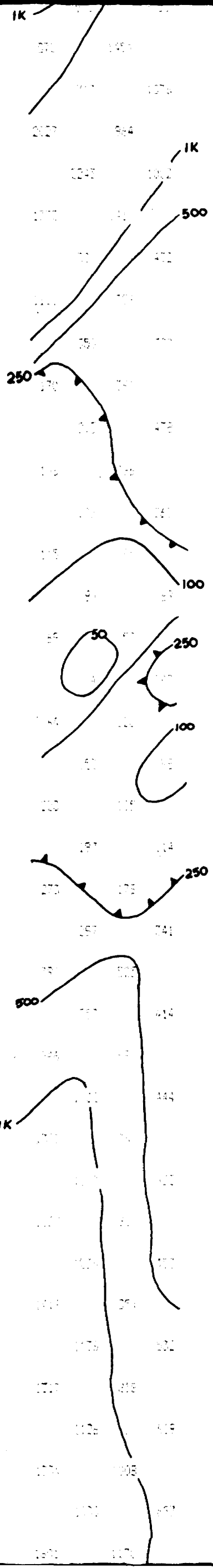
10k

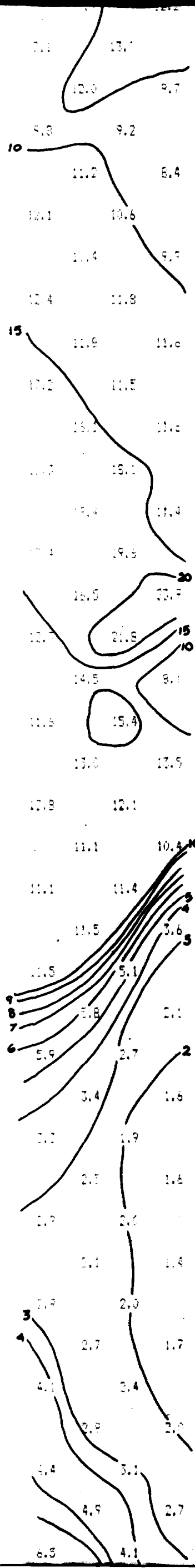
20

15

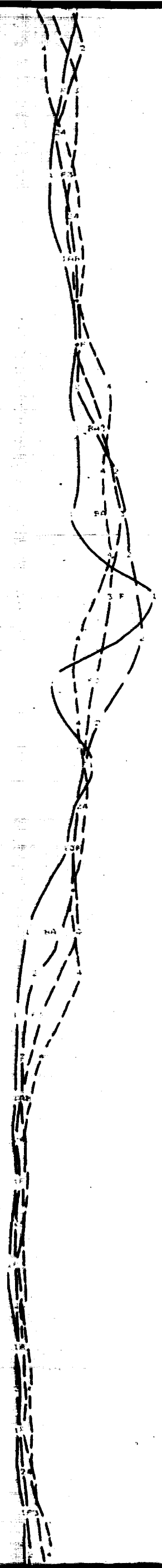
10

5

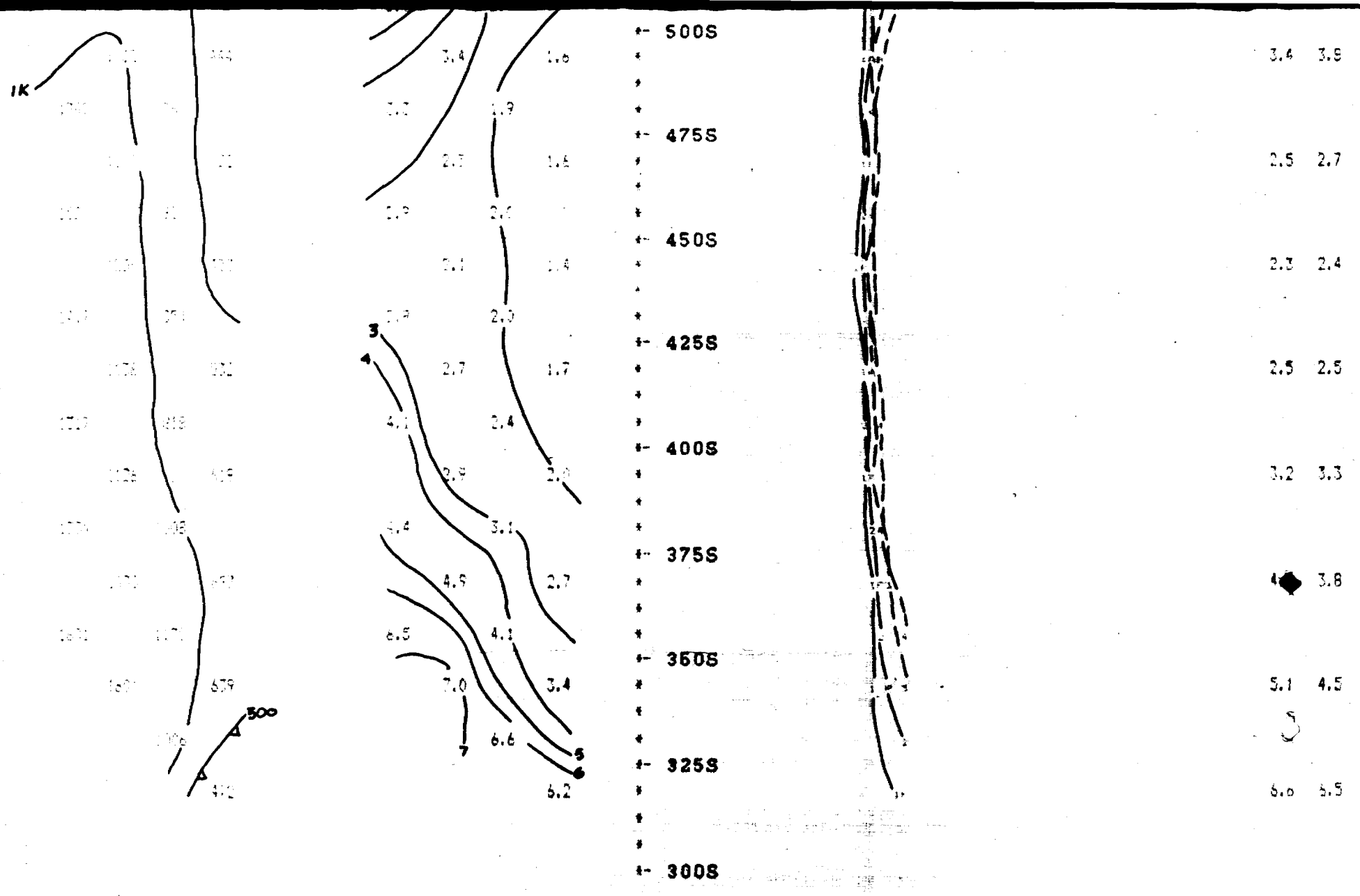




800S
775S
750S
725S
700S
675S
650S
625S
600S
575S
550S
525S
500S
475S
450S
425S
400S
375S



9.8 9.5
10.1 9.9
11.5 11.5
12.7 12.8
14.5 14.2
15.9 15.3
19.3 18.9
13.7 14.1
13.1 12.9
11.5 11.5
7.9 7.4
5.2 5.2
3.4 3.8
2.5 2.7
2.3 2.4
2.5 2.5
3.2 3.3
4.2 3.8



Property : BLAKELOCK TWP.

Client : DEERFOOT RESOURCES LTD.

Date of Survey : 26/6/86

Operator : CDJ

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

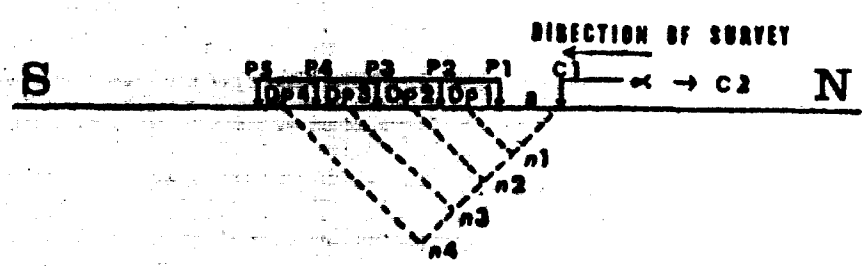
Receiver : SCINTREX IPR-11

Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 360 ms

Integration Time : 780 ms



63.5003
OM86-6-C-018

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 28 W

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

FRASER FILTER

A B

N 3 N 1 N 4 N 2

-10 -5 0 5 10 15 20

8008 20.1 20.1

7758 18.8 18.6

7508 15.9 15.6

7258 16.2 16.3

7008 1.90000E1

6758 2.02000E1

6508 2.40000E1

6258 1.76000E1

6008 1.29000E1

5758 14.0 16.4

5508 12.2 10.4

5258 1.67000E1

5008 1.54000E1

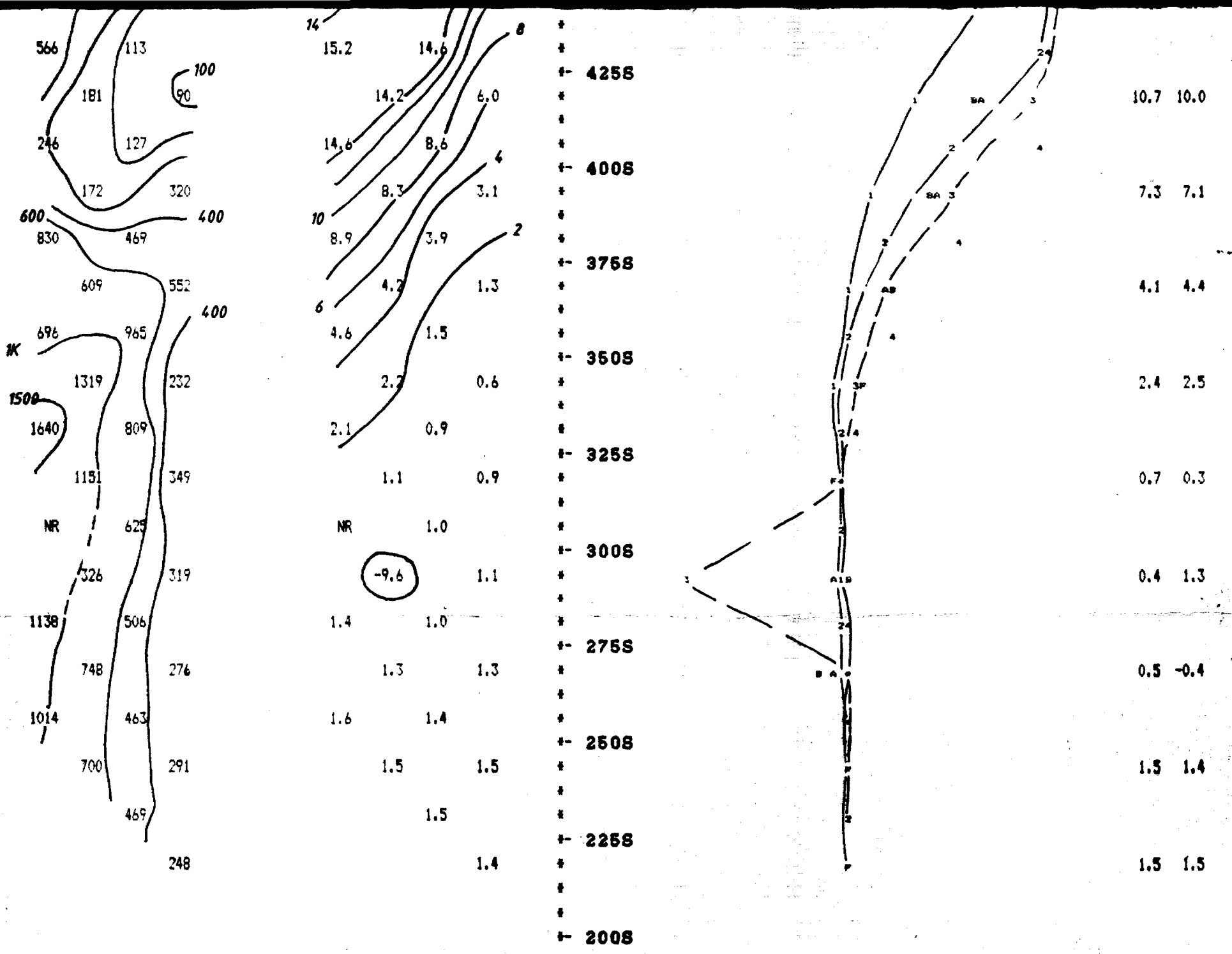
4758 13.3 13.4

4508 13.4 14.3

13.1 12.9

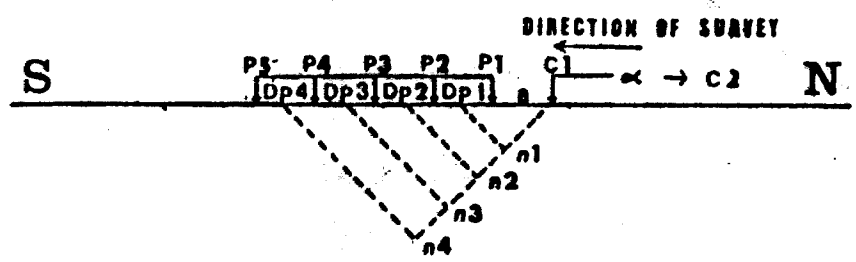
13 17 9 33 8 132 11 10 NR 20 NR NR NR 11 NR NR 4 NR NR NR 15 NR NR NR 22 NR 9 7 96 4 78 63 227 71 219 100 200 276 225 250 365 313 500 502 172 700 760 247 200 397 139

20.1 20 17.7 19.4 10.6 17.6 9.2 10 18.5 22.0 25.0 17.5 NR 25.8 NR 15.0 23.0 8.5 15.4 NR 14.5 20.7 29.7 24.0 62.2 11.8 47.3 -36.9 32.4 4.1 NR -4.6 -5.6 6.2 NR 10.0 16 13.4 6.3 18 20.3 15.5 12 21.8 11.2 20 18.8 19.3 21.0 9.1 19.5 12.7 13.1 9.8 10 14 13.1 11.9 11.6 11.7 11.5 15.3 12 15.7 10.6



Property : BLAKELOCK TWP.
Client : DEERFOOT RESOURCES

Date of Survey : 28/7/86
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 360 ms
Integration Time : 780 ms



****
R.S. MIDDLETON EXPLORATION
SERVICES INC.
****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 21 W

#63.5003
OM86-C-018

SCALE : 1:1250

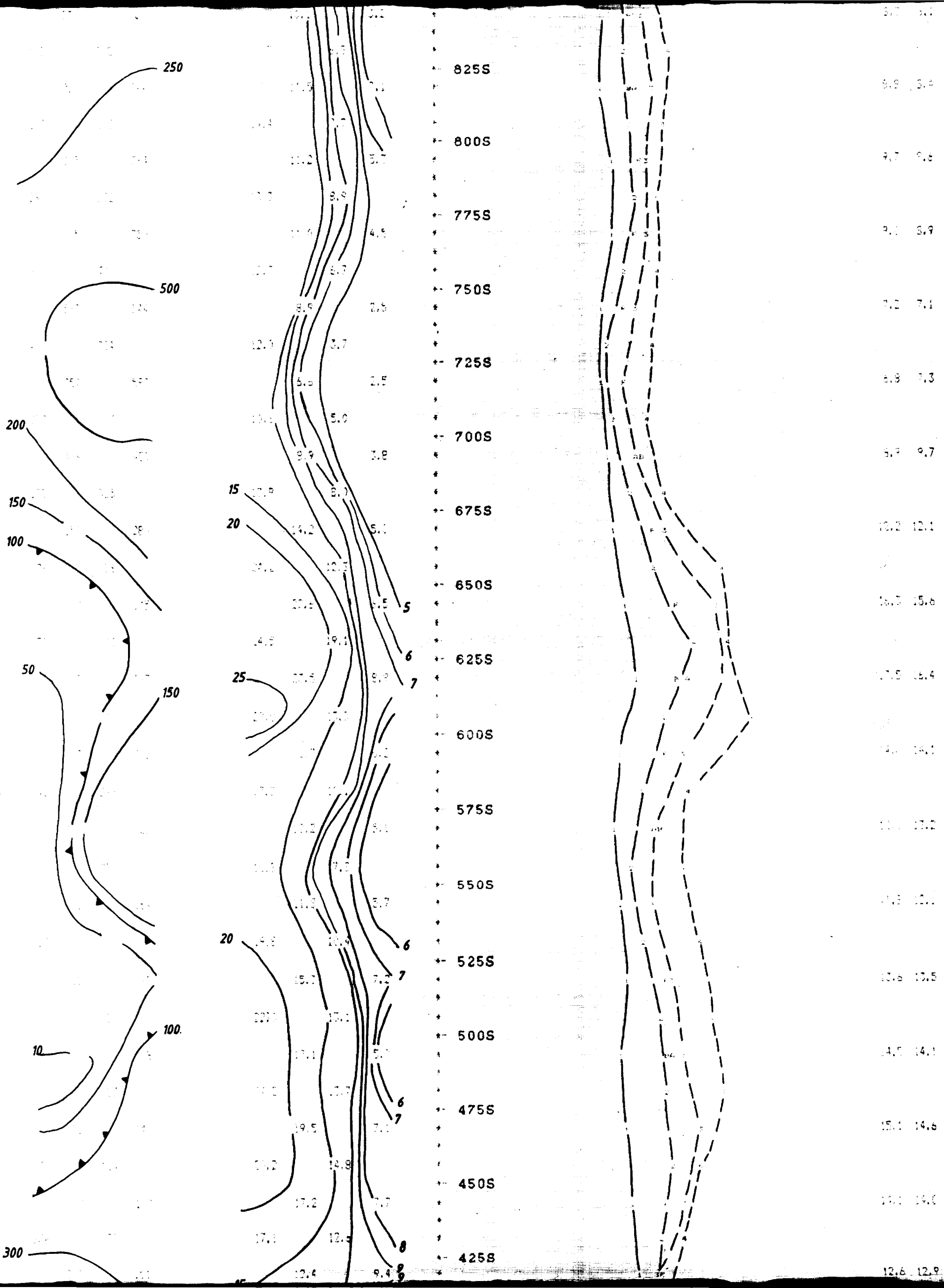
RESISTIVITY
(ohm - metres)

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROFILE

FRASER FILTER

	N 3	N 1		N 3	N 1		A	B
	N 4	N 2		N 4	N 2	-10 0 10 20 30 40 50		
						1125S	4.5	4.5
							4.2	4.0
	3147			4.5		1100S		
		2027		4.1			4.3	4.2
	2157	1852		3.8	4.5	1075S		
				4.2	4.0		4.0	4.0
		1K			3	1050S		
				3.9	3.4		3.1	3.0
				4.0	2.7	1025S		
							3.1	3.2
		500		2.6	2.6			
					2	1000S		
				3.5			2.8	2.9
			4					
						975S	2.9	2.9
			5					
						950S	3.6	3.7
			6					
		250	7			925S		
			8					
			9			900S		
			10					
						875S		
						850S		


250
500
200
150
100
50
150
10
100
300
15
20
5
6
7
25
20
6
7
6
7
6
7
8
9
9
825S
800S
775S
750S
725S
700S
675S
650S
625S
600S
575S
550S
525S
500S
475S
450S
425S

500

1000

1000

15

10

8

6

5

4

2

4

3

2

1

400S

375S

350S

325S

300S

275S

250S

225S

200S

175S

150S

125S

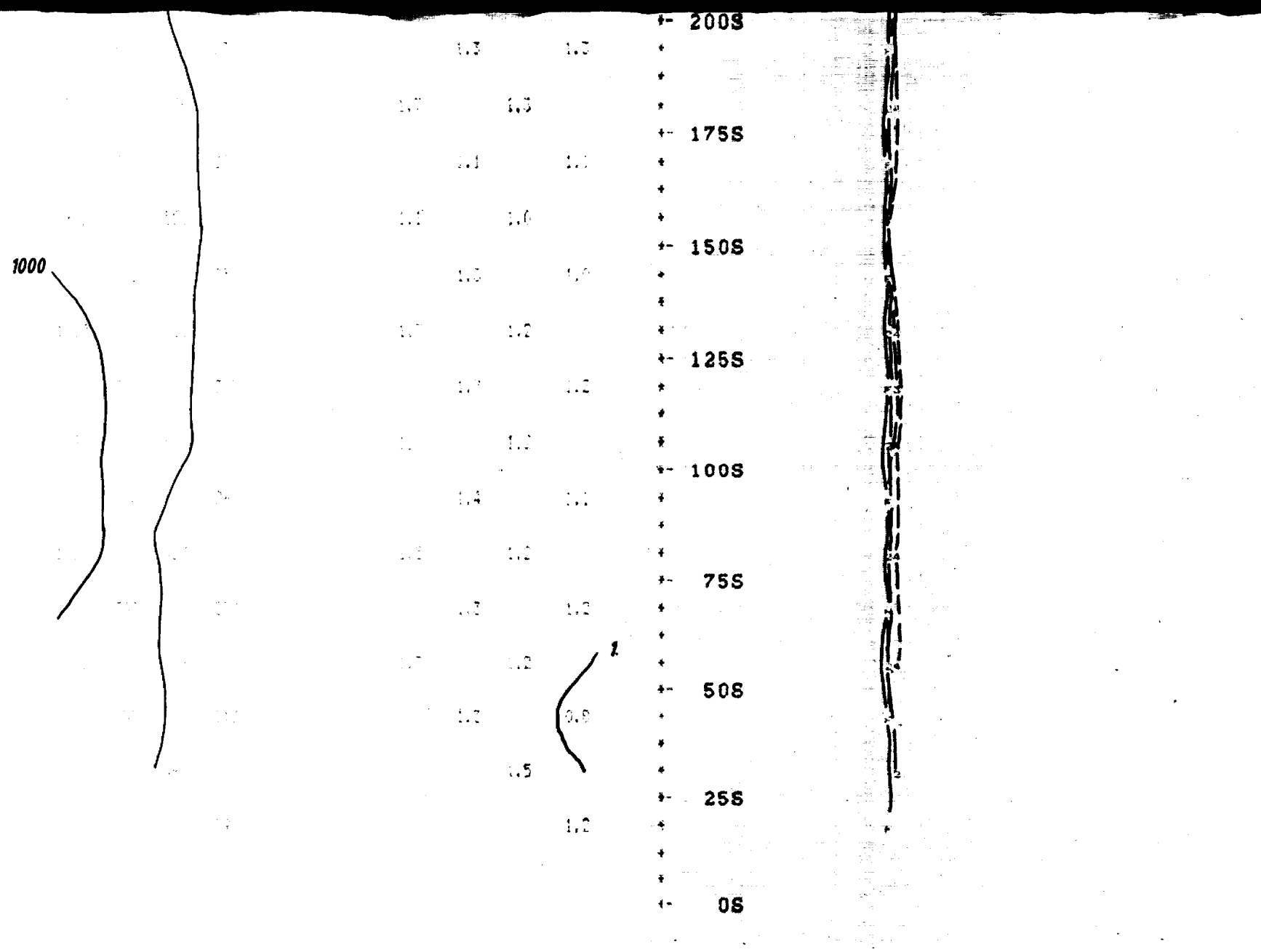
100S

75S

50S

25S

0S



: PLAYBLOCK TWP.

: MIDWEST RESOURCES LTD.

Date of Survey : 27/6/86

Operator : EDJ

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

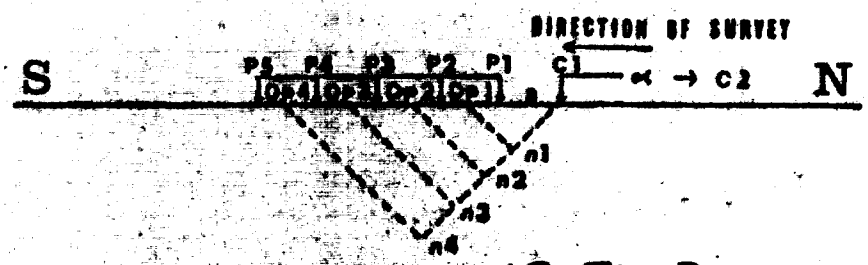
Receiver : SCINTREX IPR-11

Transmitter : SCINTREX TSQ-3

Cycle Time : 2 Sec on 2 Sec off

Pulse Time : 250 ms

Integration Time : 780 ms



63.5003
OM86C-018

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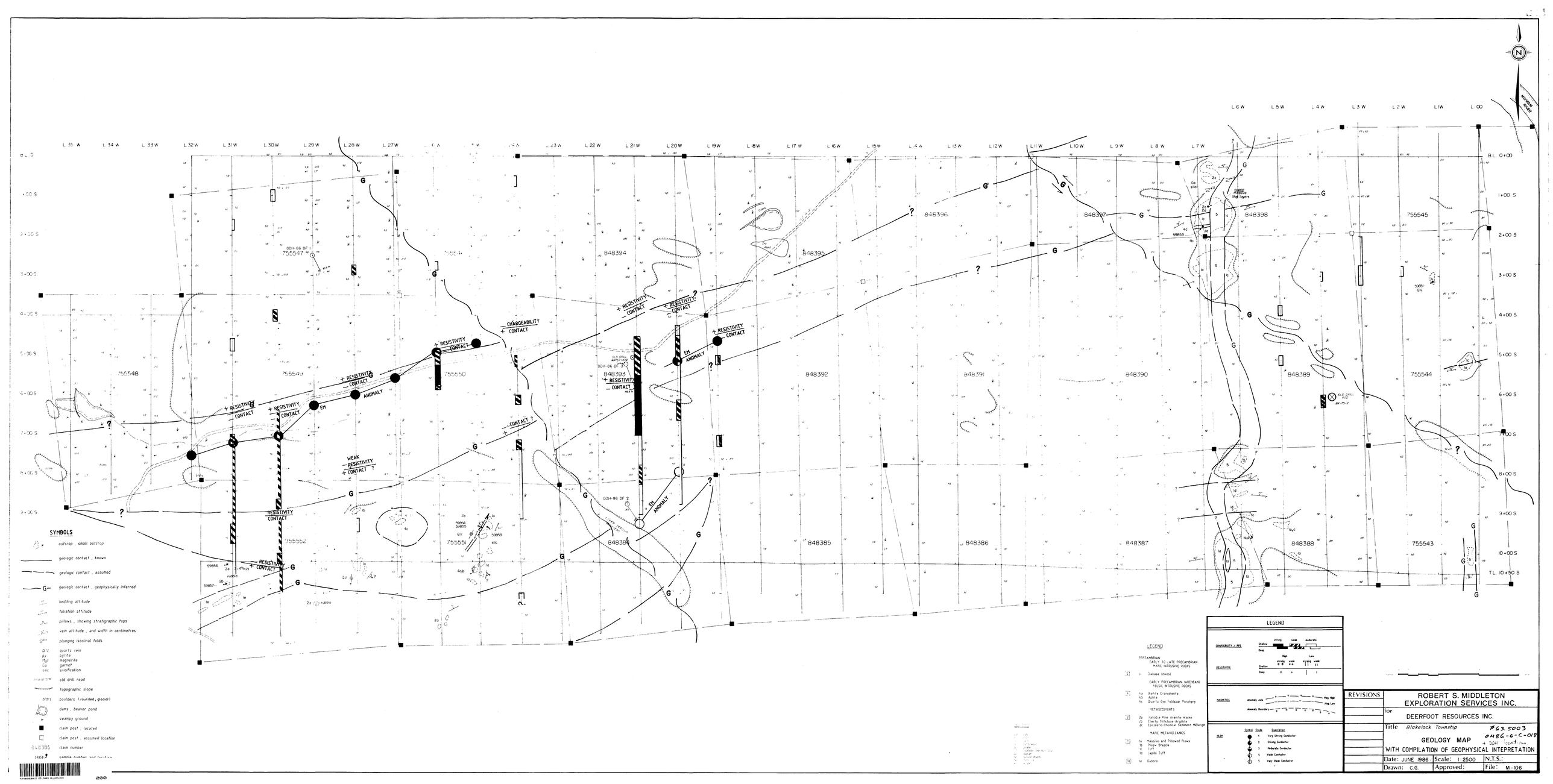
R.S. MIDDLETON EXPLORATION SERVICES INC.

****

IP Pseudosections for N = 1 to 4

'a' Spacing = 25 M

LINE 30 W


L 35 W
L 34 W
L 33 W
L 32 W
L 31 W
L 30 W
L 29 W
L 28 W
L 27 W
L 26 W
L 25 W
L 24 W
L 23 W
L 22 W
L 21 W
L 20 W
L 19W
L 18W
L 17 W
L 16 W
L 15W
L 14 W
L 13 W
L 12W
L 11W
L 10W
L 9 W
L 8 W
L 7 W
L 6W
L 5W
L 4 W
L 3 W
L 2 W
L 1W
L 00
BL 0+00
1+00 S
2+00 S
3+00 S
4+00 S
5+00 S
6+00 S
7+00 S
8+00 S
9+00 S
10+00 S
TL 10+50 S
DDH-86 DF 1
DDH-86 DF 2
755547
755548
755549
755550
755551
755552
755543
755544
755545
848385
848386
848387
848388
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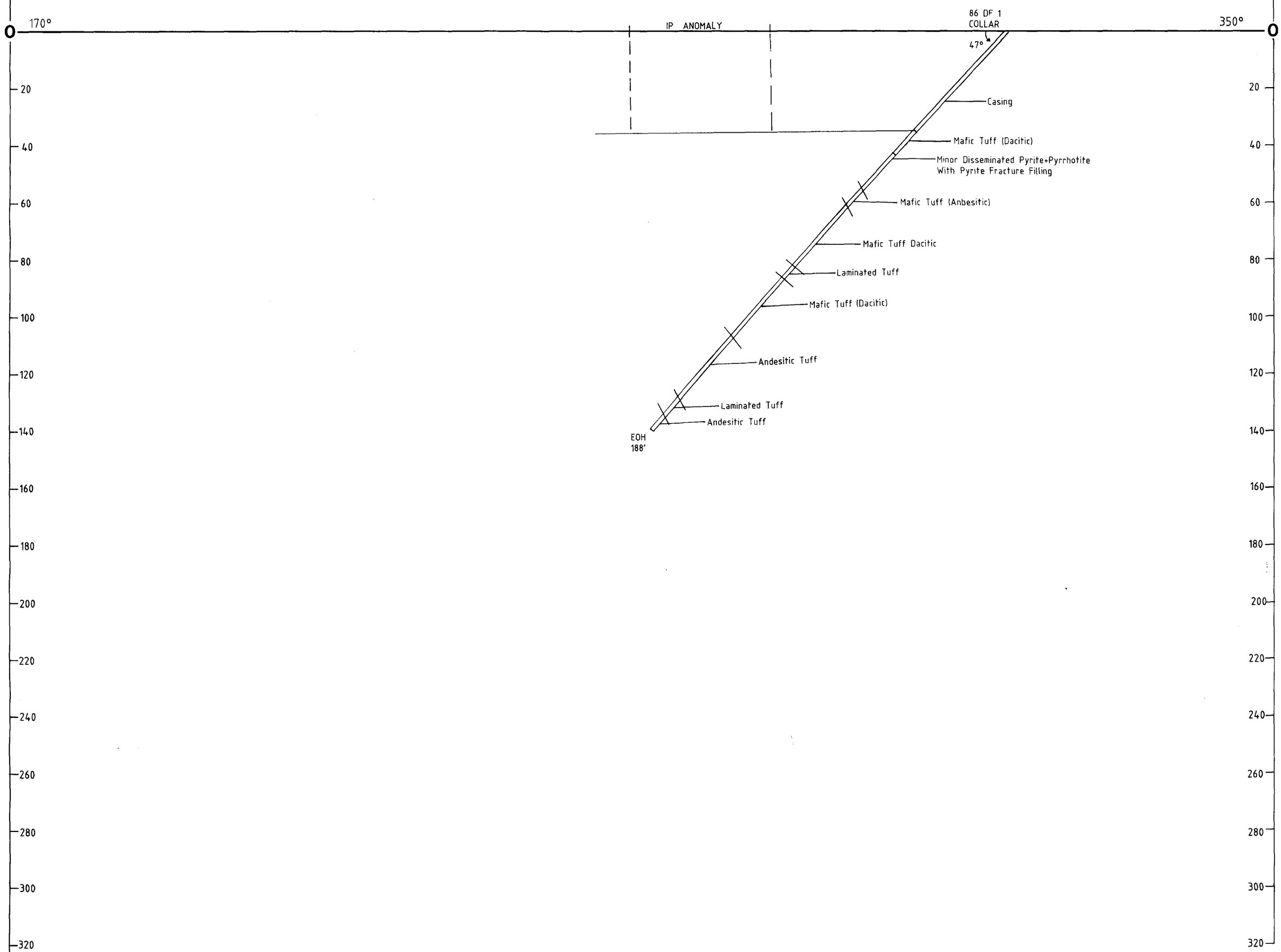
848397
848398
+ RESISTIVITY CONTACT
CHARGEABILITY + CONTACT
EM ANOMALY
WEAK RESISTIVITY + CONTACT ?
CONTACT ?
RESISTIVITY CONTACT
SYMBOLS
outcrop , small outcrop
geologic contact , known
geologic contact , assumed
geologic contact , geophysically inferred
bedding attitude
foliation attitude
pillows , showing stratigraphic tops
vein attitude , and width in centimetres
plunging isoclinal folds
QV quartz vein
py pyrite
Mgt magnetite
Ga garnet
silic silicification
old drill road
topographic slope
blders boulders (rounded , glacial)
dams , beaver pond
swampy ground
claim post , located
claim post , assumed location
848386 claim number
59856 sample number and location
LEGEND
PRECAMBRIAN
EARLY TO LATE PRECAMBRIAN MAFIC INTRUSIVE ROCKS
Diabase (dikes)
EARLY PRECAMBRIAN (ARCHEAN) FELSIC INTRUSIVE ROCKS
1a Biotite Granodiorite
1b Aplite
1c Quartz Eye Feldspar Porphyry
METASEDIMENTS
2a Variable Fine Arenite-Wacke
2b Cherty Siltstone-Argillite
2c Epiclastic-Chemical Sediment Melange
MAFIC METAVOLCANICS
1a Massive and Pillowed Flows
1b Pillow Breccia
1c Tuff
1d Lapilli Tuff
1e Gabbro
LEGEND
CHARGEABILITY / IPE
RESISTIVITY
MAGNETICS
Anomaly Axis
Anomaly Boundary
HLEM
Symbol Scale Description
1 Very Strong Conductor
2 Strong Conductor
3 Moderate Conductor
4 Weak Conductor
5 Very Weak Conductor
REVISIONS
ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
for
DEERFOOT RESOURCES INC.
Title Blakelock Township
#63.5003
0486-6-C-015
GEOLOGY MAP
WITH COMPILATION OF GEOPHYSICAL INTERPRETATION
Date: JUNE 1986
Scale: 1:2500
N.T.S.:
Drawn: C.G.
Approved:
File: M-106

SECTION LOOKING 260°



47 ° dip at collar
49 ° dip at 188'
° dip at
° dip at
° dip at
° dip at

· Hole collared at L 28W , 2+50S
· Azimuth 170 °
· Elevation
· Length of hole 188'
· Logged by M.G. BEAULNE
· Drilled by FORAGE SONDEX

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

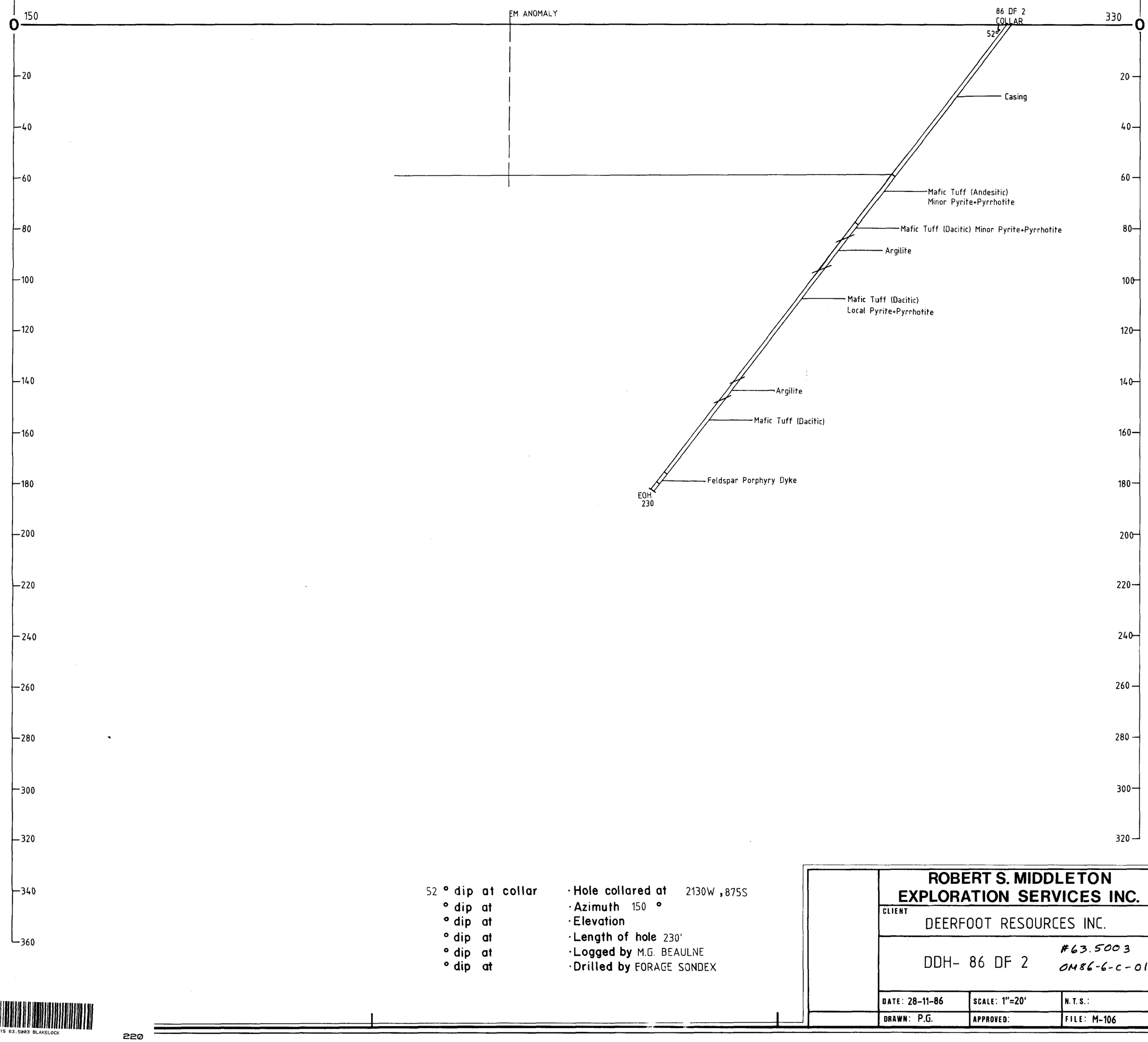
CLIENT
DEERFOOT RESOURCES INC.

DDH- 86 DF 1

#63.5003
OM86-6-C-018

DATE: 28-11-86	SCALE: 1"=20'	N.T.S.:
DRAWN: P.G.	APPROVED:	FILE: M-106

SECTION LOOKING 240°



52 ° dip at collar
° dip at
° dip at
° dip at
° dip at
° dip at

· **Hole collared at** 2130W , 875S
· **Azimuth** 150 °
· **Elevation**
· **Length of hole** 230'
· **Logged by** M.G. BEAULNE
· **Drilled by** FORAGE SONDEX

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

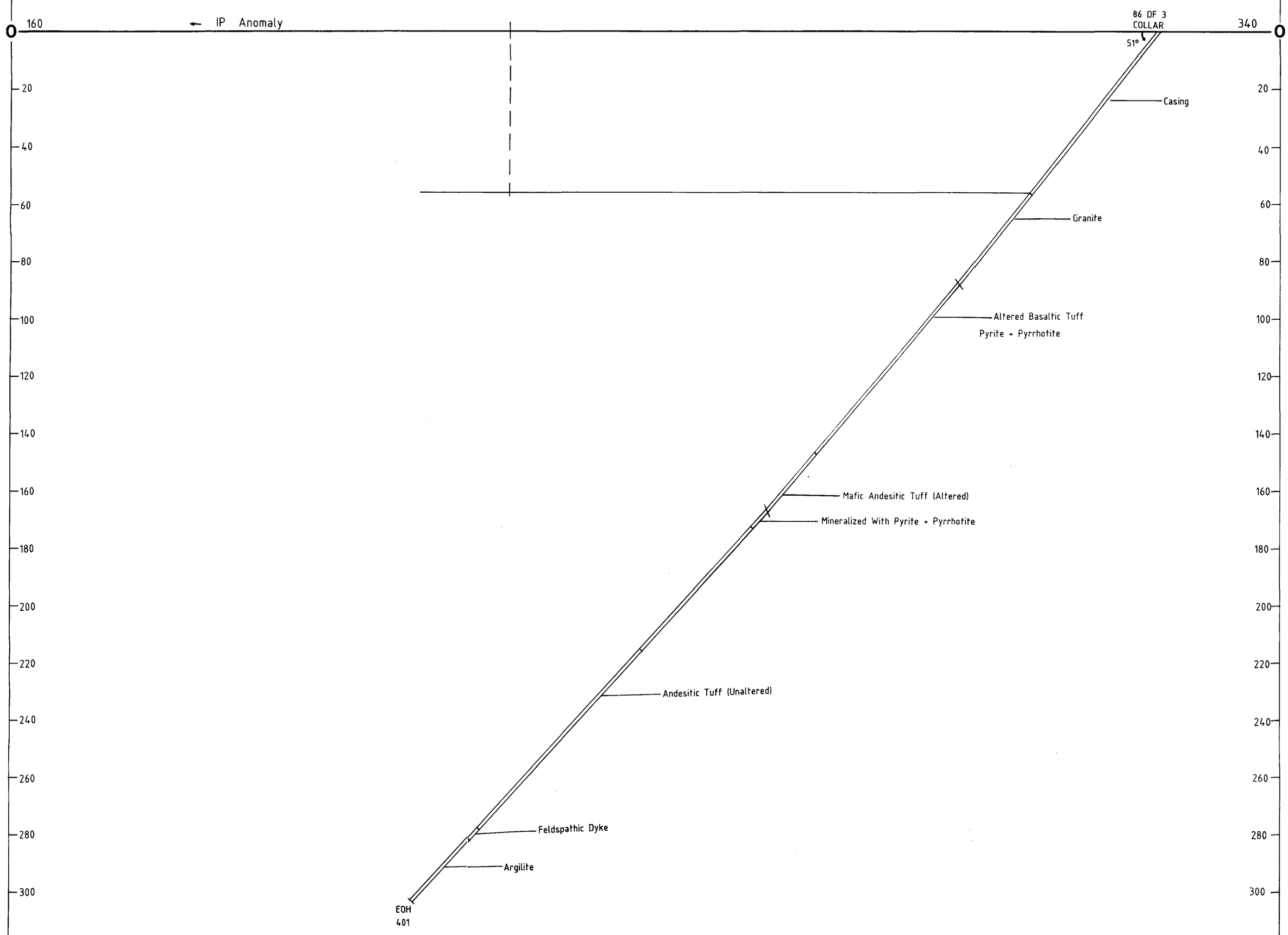
CLIENT
DEERFOOT RESOURCES INC.

DDH- 86 DF 2

#63.5003
OM86-6-c-018

DATE: 28-11-86	SCALE: 1"=20'	N.T.S.:
DRAWN: P.G.	APPROVED:	FILE: M-106

SECTION LOOKING 250°



52 ° dip at collar
47 ° dip at 250
47 ° dip at 400
° dip at
° dip at
° dip at

· Hole collared at 2130W , 525S
· Azimuth 160 °
· Elevation
· Length of hole 401
· Logged by M.G. BEAULNE
· Drilled by FORAGE SONDEX

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

CLIENT
DEERFOOT RESOURCES INC.

DDH - 86 DF 3

#63.5003
OM86-6-C-018

DATE: 1-12-86	SCALE: 1"=20'	N.T.S.:
DRAWN: P.G.	APPROVED:	FILE: M-106