84-1249-13306

13, 306 EPORT ON COMBINED GEOPHYSICAL SURVEYS

GEOLOGICAL BRANCH ASSESSMENT REPORT

> CARRIED OUT ON THE "NOV" GROUP OF CLAIMS NEAR LIKELY, B.C. (Cariboo Mining Division)

> > FOR

APEX ENERGY CORP.

BY

INTERPRETEX RESOURCES LTD.

Vancouver, B.C. December 10, 1984

Project #84619 E.R. Rockel



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Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) REPORT ON GEOPHYSICAL SURVEYS	TOTAL COST \$9200.00
AUTHOR(S) E.R. Rockel SIGN	ATURE(S)
(Interpretex Resources Ltd.)	
DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILE	D .November .29, 1984 YEAR OF WORK 1984
PROPERTY NAME(S) NOV. Group	
COMMODITIES PRESENT .silver, gold, copper	· · · · · · · · · · · · · · · · · · ·
B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN	
MINING DIVISION Cariboo	NTS
LATITUDE .52.degrees, 37.minutes LON	GITUDE .121.degrees, .30.minutes
NAMES and NUMBERS of all mineral tenures in good standing (when worl (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified I	k was done) that form the property [Examples: TAX 1-4, FIRE 2 Mining Lease ML 12 (claims involved)] :
ov 1 - 20 units - tag #48429,record # 1355.	Nov 2 - 20 units, tag #48430, record#13
ov 3 - 16 units, tag #48431, record # 1357.	Sun Fr 1 unit, tag #78999, record #51
OTAL NO. OF UNITS - 57	· · · · · · · · · · · · · · · · · · ·
DWNER (S)	
Apex Energy Corp. (2)	
# 501 - 700 W. Pender Street	
Vancouver, B.C. V6C 1G8	
PERATOR(S) (that is Company paying for the work)	
1)	•••••••••••••••••••••••••••••••••••••••
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· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization Glacial debris in the survey area possibly un	, size, and attitude): nderlain by metasediments or meta-
volcanics. Induced polarization anomalies, p	possibly due to graphite, should be
tested for economic mineralization by bulldoz	zer, backhoe or drill where appropriate.
	•••••••••••••••••••••••••••••••••••••••
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REFERENCES TO PREVIOUS WORK R.F. Gerath, Thurbe Study, June 1, 1984. J.L. Deleen. Geochemic	er Consultants Ltd., Photogeological

(over)

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TYPE OF WORK IN THIS REPORT	EXT (IN	ENT OF WORK METRIC UNITS)	-		OI	N WHICH CLAIM	IS		COST APPORTIONED
GEOLOGICAL (scale, area)						· · ·			
Ground					· · · · · · · · ·				
Photo									
GEOPHYSICAL (line-kilometres)									
Ground				. 1 M	о о. п	· •			
Magnetic	3./5 km.		· · · · N	ov I, Nov	Z, Sun F	raction		· · · · · · · · · · · · · · · · · · ·	
Electromagnetic	5.25 km					*****		· · · · · · · · · · · /	
Induced Polarization	2.73 km				,	"			\$9200.00
Radiometric							••••••••••••••••••••••••••••••••••••••		•••
Seismic								• • • • • • • • • •	
Other									•••••
Airborne								•••••	
GEOCHEMICAL (number of samp	les analysed for	.)							
Soil									
Silt									
Rock									
Other								•••••	
DRILLING (total metres; number	of holes, size)								1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Core						•••••		• • • • • • • • • • •	
Non-core									
RELATED TECHNICAL								1 .	
Sampling/assaying					••••••		•••••••••••		
Petrographic		••••••••					•••••		•••••
Mineralogic				• • • • • • • • •	• • • • • • • • •	•••••	••••••		
Metallurgic		••••••			•••••	••••••			
PROSPECTING (scale, area)									
PREPARATORY/PHYSICAL									
Legal surveys (scale, area)									
Topographic (scale, area)									
Photogrammetric (scale, area)									
Line/grid (kilometres)									
Road, local access (kilometres)	•••••••••								
Trench (metres)						•••,•••••••			
Underground (metres)		· · · · · · · · · · · · · · · · · · ·							
			la esta da la composición de la composi En esta de la composición de la composic					TOTAL COST	\$9200.00
				i		r		IOTAL COST	
FOR MINISTRY USE ONLY		NAME OF PAC ACCOUN	۲	DEBIT	CREDIT	REMARKS:			

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted Date	Rept. No			Information Class
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1. SUMMARY

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Geophysical survey within Areas 1 and 3 of the "Nov" Group of claims indicates that areas of chargeable material may exist at various depths below surface.

Chargeable material in Area 3 is believed to be graphitic, whereas in Area 1 may be due to graphite or sulphides.

Magnetic survey data available indicate that unless suspected subcropping volcanic rocks are acidic, then either phyllite or some other non-magnetic sediment underlies the surveyed portions of Lines 2+00 N, 0+00 and 2+00 S in Area 1. Magnetic survey on Line 4+00 S hints at more magnetic subcrop, such as volcanics at 1275 W.

Before additional exploration is undertaken, the depth and type of glacial overburden should be determined in order to verify the assumptions of shallow depth to bedrock and hard bouldery non-conductive till. When verification is complete various I.P. anomalies should be tested for economic mineralization.

Although I.P. anomalies in Area 1 coincident with geochemical anomalies are high priority, purely geophysical parameters promote drill holes at Line 2+00 N-station 1175 W, Line 0+00-station 1075 W and Line 2+00 S-stations 1450 W and 1400 W.

Bulldozer or back-hoe work is recommended for testing the shallow anomalous zones in the phyllites within Area 3.

Additional induced polarization survey should be considered if results from subsurface exploration are encouraging. Magnetic coverage to the south of Line 4+00 S is recommended to test for more magnetic rock such as volcanics.

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2. INTRODUCTION

A DESCRIPTION OF

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2.1 Physiography

The NDV Group of claims is situated approximately 10 km. by road northeast of Likely, British Columbia and about 2 km. east of Poquette Lake. Access to the claims was by four wheel drive trucks on maintained logging roads and on unmaintained old logging roads. It was necessary, due to heavy snow cover, to have an old logging road graded by local contractors before access using four wheel drive truck was possible to "Area 1" of Nov 1 claim. Two four wheel drive trucks were used by survey personnel for the combined geophysical survey.

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Topography in Nov 1 claim was gently rolling to flat with cover ranging from logged-off areas with slash and windfall, to forested areas.

Topography in Nov 2 claim survey area was moderate to steep towards Spanish Creek. Some outcrop of phyllites and less glacial overburden are found in Area 2 of Nov 2 claim.

2.2 Geology and Mineralization

A detailed discussion of geology is not within the scope of this geophysical report. Various samples of float found within the area were used to predict possible subcrop rock types. Phyllite metasediments were found in Nov 2 claim and are believed, by this writer, to be widespread. Any volcanic rock overlying the phyllites in the area of geophysical coverage within Nov 1 would have to be acidic and/or thin according to magnetic profiles.

Gold mineralization reported in a similar geologic situation to the south plus gold, silver and copper geochemical anomalies in the NOV Group of claims indicates that the property has economic potential and should be adequately explored below glacial cover.

2.3 Objectives

The objectives of the survey were as follows: 1. - to discover areas of disseminated graphite or sulphides which may be the source of silver, copper and gold geochemical anomalies 2. - to determine if volcanic rocks may subcrop in the survey area as predicted from volcanic float discovered nearby 3. - to outline a suspected volcanic-metasediment contact in the vicinity of stations 300 W to 500 W on most lines 4. - to provide locations for drilling or trenching to test the subsurface for economic mineralization

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2.4 Method

A combined induced polarization, VLF electromagnetic and total field magnetic survey program was undertaken to fulfill the stated objectives.

2.5 Previous Work

A geochemical survey and geological mapping program was carried out during the months of August and September, 1983. The geochemical survey outlined various geochemically anomalous areas. Those pertinent to this report were silver-copper anomalies in Area 1 and gold anomalies in Area 3.

A photogeological study of the region was completed in June 1984 to predict the approximate depth of glacial overburden. The study indicated that glacial debris was probably of the order of 2 to 3 meters deep in the area covered by the present geophysical survey.

3. SURVEY SPECIFICATIONS

3.1 Survey Parameters

Survey lines were cut and chained about one year earlier. Second growth, windfall, missing or buried station tags and deep snow cover slowed survey production. In some cases parts of lines were difficult to follow and had to be re-chained before induced polarization survey.

Survey lines were spaced at 200 meter intervals with data stations located 25 meters apart. Portions of Lines 12+00 S and 14+00 S were surveyed using I.P. and VLF EM methods. Portions of Lines 2+00 N, 0+00 and 2+00 S were surveyed using I.P., VLF EM and magnetic methods. Magnetic measurements were taken on a portion of Line 4+00 S as well.

The following geophysical coverage was obtained during the survey:

Induced Polarization Survey - 2.725 km. VLF Electromagnetic Survey - 5.25 km. Total Field Magnetic Survey - 3.75 km.

3.2 Equipment Parameters

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Induced Polarization Survey
- frequency mode - 0.3125 Hz and 5.0 Hz
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- dipole-dipole array
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- electrode spacings a=25 meters, n=1 to 6
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- field measurements - Percent Frequency Effect
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voltage across receiver electrodes

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VLF Electromagnetic Survey

- transmitting stations Seattle, Washington - Annapolis, Maryland
- in-phase (dip-angle) and out-of-phase (quadrature) components measured in percent
- direction faced westerly and southerly

Magnetic Survey

A Distance

- measured total magnetic field
- magnetic variations controlled by magnetic base station recording every 30 seconds
- instrument accuracy +/- 1 gamma
- station repeatability +/- 3 gammas

3.3 Equipment Specifications

- see Appendix II

4. DATA CALCULATIONS AND PRESENTATION

Induced polarizations readings were used to calculate apparent resistivity and metal factor. These values were then plotted in pseudo-section form (Figures #4 to #7) for interpretation. Anomalous regions were plotted on "Geophysical Interpretation Map", Figure #3.

No calculations or corrections were applied to the VLF EM data. All data were plotted on profile form under I.P. pseudosections and were used as as aide for interpretation.

Total field magnetic readings were individually corrected for variations in the earth's magnetic field using magnetic base station values recorded at the same time. The effects of changes in magnetic content of operator's clothing was controlled by re-occupying operator field base station during the survey.

5. DISCUSSION OF RESULTS

All induced polarization results showed relatively high Percent Frequency Effect (PFE) values and low apparent resistivity values. In some regions noise prevented PFE readings, mainly for larger "n" spacings.

Corrected total field magnetic readings showed, in most cases, little local magnetic relief. A slight increase in total field toward the northeast due to regional magnetic variations with latitude is evident on Lines 0+00 and 2+00 N. Line 4+00 S showed a magnetic low of approximately 40 gammas in the vicinity of station 1275 W.

VLF EM data vary from inactive to very active. In some cases VLF EM conductors coincide with areas of low resistivity and high PFE.

Limited geophysical coverage due to time constraints and widely spaced lines (200 meters) prevents meaningful correlation of data from line to line. Thus interpolation of trends between lines will not be emphasized.

Area 3 was surveyed first. Excessive noise and a limited time to obtain geophysical results prompted a move to the primary area of interest, Area 1, on the second survey day.

6. CONCLUSIONS

6.1 General

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A lack of specific knowledge regarding glacial overburden depth and type of subcrop in the regions surveyed plus a limited amount of survey coverage confines the present interpretation to conclusions based on major assumptions.

The overlapping range of resistivity values for glacial sediments, clay, alluvium and consolidated sedimentary rocks such as slates, shales, sandstones, limestones, etc. plus the known presence of glacial debris overlying carbonaceous sedimentary rocks provides for two possible conclusions from geophysical data obtained during the present survey.

The first and simplest conclusion is based on the assumption that the glacial overburden is deep (greater than 75 meters) in all areas and that the anomalous induced polarization and resistivity results represent subsurface areas of chargeable wet clay or clay with sand and silt. This conclusion is supported by the flat magnetic expression on Lines 2+00 N, 0+00 and 2+00 S, which suggests that bedrock may be deeply buried. The clay material would then account for VLF EM anomalies and explain the somewhat active (noisy) VLF EM profiles on some parts of the survey lines.

A second conclusion must be considered when taking into account the photogeological study carried out over the claimed area by Thurber Consultants Ltd. in June, 1984. The study indicates that in areas coverd by the present survey program, the depth of glacial till, described as "probably hard and bouldery", varies from less than 2

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meters to locally deeper than 3 meters. Assuming that the glacial sediment depth estimates by Thurber Consultants are of the correct order of magnitude and that the till is rocky and relatively non-conductive, the writer concludes that induced polarization and VLF EM anomalies have been produced mainly by chargeable and conductive material within bedrock. The reported presence of outcropping bedrock in Area 3, combined with similar "active" geophysical data in Area 3, support the conclusion.

Magnetic data lead to an additional conclusion. Since the majority of volcanic rocks generally have high magnetic susceptibilites, whereas most sedimentary rocks show low magnetic susceptibilites, the flat magnetic response observed on Lines 2+00 N, 0+00 and 2+00 S, suggests that on these lines, sedimentary rather than volcanic rocks subcrop in the area covered by the present geophysical surveys. It is concluded that unless suspected volcanic rocks are acidic and thus non-magnetic, then either the same phyllite found in Area 3 continues into Area 1 or some other non-magnetic sediment, such as limestone, underlies the surveyed portions of Lines 2+00 N, 0+00 and 2+00 S.

6.2 Area 3

Phyllite outcrop between lines 12+00 S and 14+00 S and relatively steep topography, indicate probable shallow overburden. Thus the I.P. data are believed to result from the phyllite bedrock. Low resistivity values with corresponding high PFE readings (and therefore high metal factor (MF) values) from within the phyllites (moderate to deep), suggest a concentration of disseminated graphite below most of the limited amount of I.P. coverage obtained. VLF EM activity is also believed to be caused by conductivity within the phyllites. Some overburden masking on Line 12+00 S may have suppressed the VLF EM response in the region of I.P. coverage.

6.3 Area 1

It is probable that in this area also, disseminated graphite within phyllites of other chargeable material such as sulphides within different sedimentary rocks, have produced the low resistivity and high PFE values observed in the I.P. data. VLF EM anomalies are believed, again to reflect near surface bedrock conductivity associated with the chargeable material possibly with some masking and weak anomalies resulting from conductive overburden such as swamp.

Survey Line 2+00 N shows two regions of anomalous Metal Factor (high chargeability along with low resisitivity). The strong wide anomalous zone, from approximately 1300 W to the end of coverage at 1075 W, corresponds with activity on the VLF EM profiles and probably represents a change in rock type from more resistive rock southwest of 1300 W to less resistive rock, possibly containing graphite or

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sulphides to the northeast. VLF EM profiles on Line 2+00 N suggest that this less resistive rock could extend to about 400 W where VLF EM activity abruptly ceases.

Survey Line 0+00 shows two regions of anomalous metal factor values. The zone between stations 950 W and 1175 W appears to be deep (greater than 50 meters), whereas the anomalies between 1400 W and 1625 W range from shallow to deep. All are attributed to carbonaceous or other chargeable material such as sulphides within bedrock. Shallow I.P. anomalies are evident on VLF EM profiles, while the deep zone was not detected by the VLF method.

Survey Line 2+00 S again shows I.P. and VLF EM anomalies similar to those on other lines. In this case, VLF EM profiles indicate near surface conductive material throughout most of the geophysical coverage. I.P. anomalies are again believed to be caused by graphitic or sulphide material of various depths.

When applying VLF EM and magnetic data to address objective #3, it appears that a contact of some kind may occur at 400 S on Line 2+00 N. However, magnetic data suggest, as stated earlier, that no volcanic rock exists unless it is acidic and non-magnetic.

Magnetic survey on Line 4+00 S discovered a 45 gamma magnetic low at station 1275 W. This suggests that either a large magnetic boulder or a "finger" of magnetic rock, possibly volcanic, may underly this location. Objectives #2 thus may be partly satisfied, however more magnetic data towards the south is necessary to confirm the presence of more magnetic rock such as volcanics.

7. RECOMMENDATIONS

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The depth and type of glacial overburden should be determined in areas of anomalous I.P. response. If overburden is found to be deep (75 meters or more) and contain much clay material, then the conclusions based on major assumptions of shallow and non-conductive overburden must be treated with skeptisism. In that case, when the type and depth of overburden are known, a new exploration approach should be established before any additional exploration money is spent.

If bedrock is reached within the range of depths predicted by Thurber Consultants Ltd., then the I.P. anomalies shown should be tested to confirm their cause and determine if they represent economic mineralization.

Anomalies which fall within geochemically anomalous areas are obviously top priority for follow-up. From a geophysical standpoint,

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the writer feels that the priorities for drilling should be at Line 2+00 N station 1175 W (to a depth of approximately 50 meters), Line 0+00 station 1075 W (to a depth of at least 75 meters) and Line 2+00 S stations 1450 W and 1400 W (to depths of about 75 meters and 50 meters respectively).

Exploration of Area 3 should take the form of bulldozer or back-hoe work in areas of the I.P. survey and shallow overburden in order to uncover probable near surface carbonaceous phyllites and test for economic mineralization.

If results from subsurface exploration are encouraging, then additional induced polarization survey should be considered on the property. Additional magnetic coverage is recommended to test for additional magnetic anomalies towards the south of Line 4+00 S in Area 1.

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Respectfully submitted

INTERPRETEX RESOURCES LTD. Vancouver, British Columbia

E.R. ROCKEL Consulting Geophysicist



CERTIFICATE

I, Edwin Ross Rockel, Geophysicist of Vancouver, British Columbia, Canada, hereby certify that:

- 1. I received a B.Sc. degree in Geophysics from the University of British Columbia in 1966.
- 2. I have been practising my profession since graduation.
- 3. I am a Professional Geophysicist registered in the Province of Alberta.
- 4. I am a Professional Engineer registered in the Province of Saskatchewan.
- 5. I hold no direct or indirect interest in, nor expect to receive any benefits from, the mineral property or properties described in this report.

Date: Dec 10 /34

Vancouver, British Columbia

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Signed:

Edwin Ross Rockel B.Sc., P.Geoph., P. Eng.

REFERENCES

- 1. R.F. Gerath, Thurber Consultants Ltd., Photogeological Study, June 1, 1984
- 2. J.L. DeLeen, Geochemical Soil Survey, November 22, 1983

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APPENDIX I

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COST STATEMENT

INTERPRETEX RESOURCES LTD.

BOX 48239 BENTALL P.O. VANCOUVER, B.C. V7X 1A1 (604) 270-9392

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COST STATEMENT

For Geophysical Survey Work Conducted on the "NOV" Group Mineral Claims (Nov 1, Nov 2, Sun Fraction)

ON BEHALF OF

APEX ENERGY CORP.

1. COST BREAKDOWN

1.1 Contract Survey Cost - \$1200.00 per day - includes:

- personnel

- equipment rental

- transportation costs and vehicle rental
- food

– accommodation

1.2	Cost	of	Survey — 6 survey days x \$1200.00 per day —	\$7200.00
1.3	Cost	of	Mobilization-Demobilization - flat rate -	\$1000.00
1.4	Cost	of	Interpretation and Report - flat rate -	\$1000.00

TOTAL COST

\$9200.00

2. LOGISTICS BREAKDOWN

2.1 Personnel

Name	Residence	. Position
E.R. Rockel	Richmond, British Columbia	Consulting Geophysicist
T.R. Matich	Surrey, British Columbia	Geophysicist
R.K. Nishimura	Edmonton, Alberta	Geophysicist
G.J. McPherson	Surrey, British Columbia	Geophysical Operator
T.A. Gustafson	New Denver, British Columbia	Geophysical Operator

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Cost Statement continued

2.2 Equipment

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A DESCRIPTION OF

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Phoenix IPV-1 frequency induced polarization receiver Phoenix IPT-1 frequency induced polarization transmitter Phoenix MG-1 induced polarization motor generator Geonics EM-16 VLF electromagnetic LORAN receiver Geometrics (Exploranium) G-816 total field magnetometer Geometrics (Exploranium) G-856 total field magnetometer base station system four Radio Shack walkie talkies two Hewlett Packard 41-CV programable calculators one Hewlett Packard thermal printer Chevrolet Blazer 4 wheel drive truck GMC Suburban 4 wheel drive truck

2.3 Surveys

- Induced Polarization Survey

- frequency mode

- dipole dipole array
- electrode spacing 25 meters
- "n" spacings n=1 to n=6 inclusive

- VLF Electromagnetic Survey

- stations used - primary - Seattle - secondary (test) - Annapolis

- direction faced - westerly

- Magnetic Survey

- total field measurements - gammas

- readings individually corrected for variations in the earth's magnetic field using base station values

2.4 Dates

- Mobilization November 15, 1984

- Survey November 16 to November 21, 1984 inclusive

- Demobilization November 22, 1984
- Interpretation and report Nov./Dec., 1984 to be submitted within 30 days.



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APPENDIX II

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EQUIPMENT SPECIFICATIONS

PHOENIX INDUCED POLARIZATION

RECEIVER MODEL IPV1

1.1 SPECIFICATIONS

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Input Impedance	:	2 Megohms
Sensitivity	•	100 micro-Volt to 10 Volt in 5 ranges. Below 100 micro-Volt the frequency effect and voltage reading accuracy becomes less due to noise and dial error.
Instrument noise		+ .2% on 100 micro-Volt level + .1% on higher voltage levels
Operating frequencies	•	+ DC; .156 Hz; .313 Hz; 1.25 Hz; 2.5 Hz and 5.0 Hz.
		\pm DC; .125 Hz; .25 Hz; 1.0 Hz; 2.0 Hz and 4.0 Hz optionally available.
Frequency selection	. :	Via channel selector switch on front panel to select Fl or F2. Fl and F2 are programmable inside the receiver and have identical selection range.
50-60 Hz Filters	:	-60 dB
3d Harmonic Filter	: .	For each operating frequency the attenuation is at least 12 dB per octave.
Telluric Filter	•	12 dB per octave below .125 Hz.
SP Cancelling	:	Manual via a cancelling control which has 3 ranges; approx. \pm 5 mV; \pm 50 mV; \pm 500 mV. On AC the initial SP is cancelled by pushing a button.
Mode of Operating	:	The signal is amplified; The level is manually adjusted by a potentiometer until it is the same amplitude as a reference voltage. The attenuator and the potentiometer indicate the input voltage. The meter used for nulling also indicates the frequency effect.
Meter Dial	•	Graduated -5% to + 20% F.E. The polarity assumed is based on Fl as the low frequency.

1.1 SPECIFICATIONS - (continued)

Damping Reading response

Battery Voltage Battery Drain

Battery type

Temperature Sensitivity

Calibration

Temperature Range

Input Protection

Dimensions

Weight

Case

Manufacturer: PHOENIX GEOPHYSICS LIMITED 200 Yorkland Blvd. Willowdale, Ontario M2J 1R5 A fast mode for voltage level adjustment and a damped mode for the F.E. reading, which may be augmented by a continuously variable damping.

: On the standard damped mode to .2% of 100% signal within 30 sec.

: 12V to 27V

;

:

:

:

:

:

:

:

:

4.5 mA

: Not critical. Standard 9V transistor radio batteries are satisfactory in most cases.

Less than .1% per degree C for the voltage level and neglibgible for the frequency effect reading.

An internal .05 ohm \pm 1% resistor allows precise calibration of the system under all conditions.

Operation -40°C to +60°C ambient.

The input circuits are protected with voltage protection devices. Prolonged exposure to excessive voltage will cause a 10.000 ohm fuse resistor to burn out.

10 cm x 13 cm x 22 cm. incl. 1id.

1.1 Kg. (including lid, batteries and carrying strap)

Non-conductive plastic.

PHOENIX INDUCED POLARIZATION

Plant and

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TRANSMITTER MODEL IPT - 1

SPECIFICATIONS		
Frequency Domain		DC, .078, .156, .313, 1.25, 2.5 and 5.0 Hz.
Time Domain	:	<pre>1.6 sec+, 1.6 sec off, 1.6 sec-, 1.6 sec off. simultaneous transmission mode; 313 and 5.0 Hz. standard</pre>
Ammeter Ranges	•	30 mA, 100 mA, 300 mA, 1A, 3A and 10A full scale
Meter Display	:	A meter function switch selects the display of current level, regulation status, input frequency, output voltage, control voltage and line voltage.
Current Regulation	•	The change in output current is less than 0.2% for a 10% change in output voltage or electrode impedance.
Protection	:	The current is turned off automatically if it exceeds 150% full scale or if it is less than 5% full scale.
Output Voltage	:	75V, 150V, 300V, 600V and 1200V.
Output Current	:	3 mA to 10A
Output Power	:	2KW with MG-2 motor generator
Input Power	•	Three phase, 400 Hz (350 to 1000 Hz) 60V (50V to 80V) standard
Current Regulation	:	Achieved by feedback to the alternator of the motor generator unit.
Operating Temperature	:	-40 deg. C to +60 deg. C.
Thermal Protection	:	Thermostat turns off at 65 deg. C and turns back on at 55 deg. C internal temperature.
Dimensions	•	$20 \times 40 \times 55 $ cm.
Weight	•	17 kilograms

PHOENIX INDUCED POLARIZATION

MG - 2 MOTOR GENERATOR

Used with IPT-1 transmitter	r	
Output Power	•	2KVA at 400 Hz.
Engine Type	•	4 cycle Briggs and Stratton
Engine Size	:	5 HP at 3600 rpm.
Dimensions	:	40 x 45 x 60 cm.
Weight	:	34 kilograms

Manufacturer: PHOENIX GEOPHYSICS LIMITED 200 Yorkland Blvd. Willowdale, Ontario M2J 1R5

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GEONICS LIMITED VLF EM 16

Transmitting Stations Used:

Operating Frequency Range:

Parameters Measured:

Method of Reading:

Scale Range:

Readability:

Reading Time:

Source of Primary Field:

VLF transmitting stations

Any desired station frequency can be supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.

About 15-25 Hz

 The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid).
 The vertical out-of-phase (quadrature) component (the short axis of the polarization ellipsoid compared to the long axis).

In-phase from a mechanical inclinometer and quadrature from a calibrated dial. Nulling by audio tone.

In-phase ±150%; quadrature ±40%

 $42 \times 14 \times 9 \text{ cm} (16 \times 5.5 \times 3.5 \text{ in})$

±1%

10-40 seconds depending on signal strength

ON-OFF switch, battery testing push button,

Monotonic speaker, carrying case, manual of

operation, 3 station selector plug-in tuning units (additional frequencies are optional),

station selector, switch, volume control, quadrature, dial ±40%, inclinometer dial ±150%

6 size AA (penlight) alkaline cells. Life about

Operating Temperature Range: -40 to 50° C.

Operating controls:

Power Supply:

Dimensions:

Weight:

Instrument Supplied With:

Shipping Weight:

4.5 kg (10 1bs.)

set of batteries

1.6 kg (3.5 lbs)

200 hours

Name and Address of Manufacturer:

Geonics Limited 1745 Meyerside Drive/Unit 8 Mississauga, Ontario L5T 1C5

MODEL G-816

PORTABLE PROTON MAGNETOMETER

Sensitivity:

Range: Tuning:

Û

Gradient Tolerance:

Sampling Rate:

Output:

Power Requirements:

Temperature Range:

Accuracy (Total Field):

Sensor:

Size:

Weight:

±1 gamma throughout range

20,000 to 90,000 gammas (worldwide)

Multi-position switch with signal amplitude indicator light on display

Exceeds 800 gammas/ft

Manual pushbutton, one reading each 6 seconds

5 digit numeric display with readout directly in gammas

Twelve self-contained 1.5 volt "D" cell universally available flashlight-type batteries. Charge state or replacement signified by flashing indicator light on display.

Console and sensor: -40° to +85°c

Battery pack: 0° to $+50^{\circ}$ C (limited use to -15°C; lower temperature battery belt operation optional)

 ± 1 gamma through 0° to $\pm 50°$ C temperature range

High signal, noise cancelling, interchangeably mounted on separate staff or attached to back pack

Console: 3.5 x 7 x 11 inches (9 x 18 x 28 cm) Sensor: 3.5×5 inches (9×13 cm) Staff: 1 inch diameter x 8 ft. length (3 cm x 2.5 m)

Console (w/batteries): 5.51bs. 2.8kgs. 1.8kgs. Sensor and signal cable: 4.01bs. Aluminum staff: 2.01bs. 0.9kgs.

Total Weight

11.51bs. 5.2kgs.

EG-& G Canada Exploranium/Geometrics Division Unit #1 640 Hardwick Road Bolton, Ontario LOP 1AO

MODEL G-856

PROTON PRECESSION MEMORY MAGNETOMETER

Display

Six digit display of magnetic field to resolution of 0.1 gamma or time to nearest second. Additional three-digit display of station or day of year.

Resolution

Typically 0.1 gamma in average conditions. May degrade to lower resolution in weak fields, noisy conditions or high gradients.

Accuracy

One gamma, limited by remnant magnetism in sensor and crystal oscillator accuracy.

Julian clock with stability of 5 seconds per month at room temperature and 5 seconds per day over the temperature range of -20 to +50 degrees Celsius.

Tuning

Clock

Push button tuning from keyboard with current value displayed on request. Tuning range 20 to 90 kilogammas.

Gradient Tolerance Tolerates gradients to 5000 gammas/meter. When high gradients truncate count interval, maintains partial reading to an accuracy consistent with data.

Cycle Time

Complete field measurement in three seconds in normal operation. Internal switch selection for faster cycle (1.5 seconds) at reduced resolution or longer cycles.

Manual Read

Takes reading on command. Will store data in memory on command at operator's discretion.

Internal switch will cause the instrument to self-cycle, storing automatically, for time dependent measurements. Available intervals are 5, 10 and 30 seconds, 1,2,5, and

Self-Cycle

Memory

Stores 1,000 readings in portable mode, keeping track of time and station number. In base station operation, records last four digits of field at discrete intervals, allowing storage of over 2,500 readings.

Output

Plays data out in standard RS-232 format at selectable baud rates. Also outputs data in byte parallel, character serial BCD for use with digital recorders.

Inputs

Will accept an external sample command.

10 minutes depending on switch position.

SpecialAn internal switch allows adjustment of polarizationFunctionstime and count time to improve performance in marginalarea or improve resolutuon or to speed operation.

cont'd

G-856 cont'd

Physical

Instrument console: 7 x 10¹/₂ x 3¹/₂ inches (18 x 27 x 9 cm) 6 lbs (2.7 kg) Sensor: 3¹/₂ x 5 inches (9 x 13 cm) 4 lbs (1.8 kg) Staff: 1 inch x 8 feet (3 cm x 2.5 m) 2 lbs (1 kg)

Environmental

Power

Operates satisfactorily from -20 to 50 degrees Celsius. Weatherproof.

Meets specifications from 0 to 40 degrees Celsius.

Operates from 8 D-cell flashlight batteries (or 12 volts external power). May be operated at 18 volts external power to improve resolution. Power failure or replacement of batteries will not cause loss of data stored in memory.

Standard Accessories Sensor Staff Chest Harnes Two sets of batteries Operating Manual Applications Manual for Portable Magnetometers

Optional Accessories

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D

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RS-232 Interface Cable Rechargeable Battery Pack (mounts inside case in place of normal batteries) and Charger Cold weather battery belt Digital Tape Recorder with Interface Cables

EG & G Canada Exploranium/Geometrics Division Unit #1 640 Hardwick Road Bolton, Ontario LOP 1A0 APPENDIX III

J

DATA SHEETS & CALCULATION TAPES

INDUCED POLARIZATION DATA SHEETS

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PLINE	'NO 	14+(x@	201 9 5 501	N	1		
\triangle	Elect	h Le	ş	Volte	age	Curn	90
P,	Dp	N	pp	VR	VP	ĩ	PFE
100E	5	1	tés	100	2.39	.74	tofficile
_	4	2	75	10	4.97	.50	+ off scale
	3	3	625	10	1.21	.32	toff sale
-	2	4	50	IMV	175	.24	16.0 VN
	1	5	9375	IMV	1.79VN	.18	+ df sale
	IW	6	25	NFR			0
7SE	4	1	625	100	3.14	,50	19.0
	3	2	50	16	4,94	.32	R.S
	2	3	3.5	IMV_	5.58	.24	16.0N
	1	4	25	IMV	2.34	.18	+off scale
SUE	3	1	37.5	100	1.46	.32	toffscale
	2	2	25	10	091	24	Hoffsyle
	1.1	3	125	IMV	3.09	18	toffscale
25E	2		12.5	100	4.04	.24	15.0
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	، سبا	T. Q. SOW	(- 					
\triangle	Elec	trodes	Vo Ha	se	Curr	90			
P.	Dp	NPP	VR	VP	Ĺ	PFE			
SOW	2	\$ 1-375	100	4.96	.24	8.5			
	3	2.25	10	650	.32	18.0			
	4	3-12.5	10	3.09	.50	11.0			
	5	40	IMV	6.56	.20	toffside			
	6	5 125	IMV	511	.90	+ off >col			
ZSW	1	1-625	100	3.81	.18	10.0			
	2	2 -50	10	1.21	.24	20.0			
	3	3 - 59.5	IMV	7.75	.32	17.5			
	4	4.25	IMV	4.30	.50	7.5			
	5	5-125	IMV	1.56	.90	+ off sure			
	6	60	IMV	1.14 N	.90	toffscole			
OUW	<u> </u>	275	10	1.03	.18	15.0			
	2	3 05	IMV	371	.24	14.0			
	3	4 50	IMV	371	.32	12.0			
	4	5 385	IMV	2.52	50	11.0 VN			
	νį.	6 25	IMV	1.07 1	.90	40ff scale			
251	1	3 8.5	NFR						
	ン	4 75	IMV	2.2	.24	toff such			
	2	5 675	IMV	2.48	.32	offer der			
	4	6 50	NFR						
SOW	5	4 100	NFC	100 3	mall	otential			
	2	2 22	NFR						
<u> </u>	3	6 75	NER			· · · ·			
175W	1	5 125	NFR						
	2	6 100	NFR						
DOW	1	6 125	NFR		_				
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·	2	3	10	0.50	.19	HES		N234
	1	4	10	0.81	.24	OFF -	NEC	. 225
250E	3	1	11	2.95	.20	5.5		238
	2	ス	100	6.28	.19	OFT	+Tive	225
	1	3	10	0.39	.24	OFF The	VN	213
225E	2	ŀ	14	0.96	19	1.5		213
	1.	2	10	1.46	.24	OFF +1	IVE	200
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150E	2	<u> </u>	11	2.04	.19	10.5		163
	3	2	10	2.44	20	20+		175
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	2	3	10	1.70	117	14	.01	15
	1	4	10	1.68	.20	14	.01	Variator
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· .	5	5	IM	7.25	.23	N	R	14
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1375	1	3	10	5.45	.20	15	N	14
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	2	5	IM	2.00	.17	N	1R		14
	3	6	IM	0.78	.17	20	+	Ur	Norse
1325	1	5	10	0.75	120	20	+		13
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	3	2	10	4.01	,20	13.	5	1425
	4	3	10	0.85	.25	15	N	1488
	5	4	10	1.24	.23	12	N	1500
	6	5	10	2.47	.44	5,	0	1513
1200.	·			7 05	10	9		1483
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<u></u>	7		100	7.5	20	7	2	(3(3)
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575	2	4	/0	797	-22	10		1575
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	7	-4	10	5.97	20	0		1729
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1225	1	6	IM	11 83	11	0	P	13/2
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	2	3	10	8.61	.36	13.	0	12	14
	3	<u></u>	100	3.22	.36	10	0	/2	₽
	4		IV	3.55	,84		0	118	14
JOB No.: INST. TYP	846 E: RH	19 10en, R	AI	REA: N IPU-1	SERIAL	DATE:	No	1.19	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11502	1	5	10	1.96	.40	11	ON	, 12	ļ
2 3 100 0.96 3.6 13.0 11 4 2 100 8.53 84 10.5 11 5 1 1V $3.72.86$ 19.0 11 1125 1 6 10 $0.72.40$ 18 12 2 5 10 1.16 3.6 N 12 2 5 10 1.16 3.6 N 11 3 $4/0.3.38$ $.36$ 13 N 11 4 3 $100.2.35$ $.84$ 12.0 11 5 $2/00.8.40$ $.86$ 11.0 11.5 6 1 $1V.4.23$ $.96$ 10.5 11.5 6 10 $0.79.36$ 14 10 11.5 $400.1.67.49$ 84 13.0 11.50 11.50 $5 100.1.67.86$ 11.5 11.50 11.50 $5 100.6.94.96.94.96 11.0 11.55 11.50 $		2	4	10	3.3	.36		ON	120	1
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		<u></u>	5	10	1.52	84	17	R n/	1178	l
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		4	2	10%	112	.94	13	. <u>.</u>	1123	
5 5 10 0.95 .86 17 A) 11 13 6 4 10 3.29 .96 15 A 1100 1025 5 6 10 0.40 .86 A R 1100 6 5 10 1.13 .96 16 N 1088 1000 6 6 1M 4.52 .96 M R 1075 DOB NO.: 84619 AREA: NOV DATE: NOV 19 INST. TYPE: P4.061X JPV-1 SERIAL NO.: OPERATOR: ER PAGE NO. 3	1050	4	6	10	0.23	84	- 2	<u>ァ</u> レ	1135	
6 4 10 3.29 .96 15 N 1100 1025 5 6 10 0.42 .86 NR 1100 6 5 10 1.13 .96 16N 1088 1000 6 6 1M 4.52 .96 NR 1075 JOB NO.: 84619 AREA: NOV DATE: NOV 9 INST. TYPE: Phoed IX IPV - 1 SERIAL NO.: OPERATOR: ER PAGE NO.: 3		5	7	10	1.95	.86	17	- <u>1</u>	11/2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	· · · ·	6		10	3,29	.91.			(1.00	
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INST. TYPE: <u>P4.04 [X JPV-1</u> SERIAL No.: OPERATOR: <u>FR</u> PAGE No.: <u>3</u>	JOB No.:_	846	19	AF		01	DATE:	Nor	19	
	INST. TYPI	:: <u>Ph</u> o	eh Ix	IP	v-1	SERIAL	No.:			
	OPERATO	a:∠	1		· · · ·	P	AGE No.	: <u> </u>		
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STATION TX at 1150 0+00 LINE NO. STATION Electrodos Currof % REMARKS 1017290 DP z Pb. P · **9**1 VR \mathcal{N} VP .76 100 1113 2.73 075 2 5.50.76 1100 100 1088 2 235 .52 ハノ 0.82 1088 1050 2 100 76 3.21.52 1075 18,0 2 2 100 2 1063 1.72 .60 10,4 ~ (ots 2 4 2.94.76 1025 17N 10 .52 09.16 ' 3 2 1063 100 4.23 .60 1050 D 7 11 3.08,62 9.5 1037 ú .76 20+ 0.66 5 1063 1000 10 2 .52 18-5 A 4 1050 2.11 D 3 100 0.81 .60 1038 INN 2 12.5 100 4.96 ,62 1025 1.90 62 11.0 1013 4.06 176 1050 6 'M R 9.43 1038 .52 っれん M 3,63 60 4 10 ,0 1025 15 100 1.75 .62 13.0 1013 1000 12. 0 5.41 .62 100 788 6 IV 4.76 94 8.0 950 1025 6 2 MR IM 2.78 152 0.93 210 1013 3 160 .62 14 1000 4 4,85 4 lo5 7 Ż 151.5 100 .62 1.22 988 100 8.27 2 ,94 975 G 10 JOB No .: 84619 AREA: NOU 9 Nov DATE INST. TYPE: Phoen Tx IPU-T SERIAL No OPERATOR: ER 4 PAGE No .: METRES

LINE	NO	01	200	> **	STATI	ON_	Tx	11500
STATIO	NETer	troles	Vsk	tage	Curt	20	RE	MARKS
Pi	DP	N	UR	VP	2º	PA	FE ,	PHP
925	3	6	1M	3.07	.60	15	N	1000
	4	5	10	1-29	.62	19	.0	988
· · · ·	5	4	10	3.56	.62	14	. 5	775
	6	3	100	1.96	194	14.	0	963
900	14	0	/M	3.79	.62	18	N	975
	5	5	10	0:82	.62	20	+	763
	6	4	10	5.01	.94	14	5	950
875	5		10	0.48	.62	20	27	950
5. 	6	5	10	2.90	.94	9	.5	938
850	6	6	10	1.56	.94	20	+-	925
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JOB No INST. T OPERA	.: <u>84</u> уре: <u>Р</u> тоя: <u>Е</u>	619 40eu R	AI AI	REA: NO	L DV _SERIAL I	DATE: No.: AGE No	<i>Vor</i>	+19
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2+0 ctroda N 1 2 1 3 2 1 3 2 1 4	CN 1/6/72ge Ve Ve 10 7.16 10 1.41 100 2.98 10 2.55 10 2.55	STATION_ CUMP 9% CUMP 9% CUMP 9% PFE .80 15.0 .80 19.0 .40 19.0 .40 20	Tx @ /300 REMARKS 1263 1250 1238 N 1238
1 1 2 1 3 2 1 4	Ve Ve Ve Ve 10 7.16 10 1.41 100 2.98 10 2.55	CURVE 670 2 PFE .80 15.0 .80 19.0 .40 14.5 .40 20	REMARKS 1263 1250 1238 N 1238
N 1 2 1 3 2 1 4	VR VP 10 7.16 10 1.41 100 2.98 1MV 5.31 10 2.55	i PFE .80 15.0 .80 19.0 .80 14.5 .40 20	1263 1250 1238 N 1238
 2 3 2 4	10 7.16 10 1.41 100 2.98 1MV 5.31 10 2.55	.80 15.0 .80 19.0 .40 14.5 .40 20	1263 1250 1238 N 1238
2 1 3 2 1 4	10 1.41 100 2.98 1MV 5.31 10 2.55	.20 19.0 .20 14.5 .20 20	1250 1238 N 1238
1 3 2 1 4	100 2.98 1MV 5.31 10 2.55	.40 14.5	1238 N 1238
3 2 1 4	10 2.55	1.40 20 151)	N 1238
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<u> </u>	10 0073	.80 15.0	1213
	10 0,40VN	1.40 05-	1225
3	10 0.32 N	,80 OSt	1213
2	10 0.43~	.20 NR	1200
<u> </u>	10 4.93	.90 05+	11.88
5	10 0.51 N	.20 OSt	1213
<u> </u>	10 0,31	.40 NR	12.00
3	10 0.25	ED NR	1188
Z	10 0.28	.90 OSt	1175
1	10 7.74	072 165	1163
6	10 0202'	JO NR	1225
6	10 0.04	90 OS+	1200
5	10 0.41	\$0 14.5	1188
4	10 0.35	4095	1175
- 2,	1MV 2.91)	190 ost	1163
2	104.62	72 150	1150
1	100 1.53	52 054	1128
- Th	IMUZ15	.80 NR	1175
5	MHX 370	SO NR	1163
<u> </u>	INVITS	40 ND	1150
	10 174	77 110	VA 1138
2	10 3.76	1.57 75+	1125
619			Nov 2014
toensi	K IPU-1	SERIAL No:	
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		-	
	MEEET	17 METDES	
		1 10 0.49 1 10 0.51 1 10 0.51 1 10 0.31 1 10 0.31 2 10 0.25 2 10 0.28 1 10 7.74 6 10 0.08 5 10 0.08 5 10 0.41 4 10 0.35 3 14 2.40 2 10 4.62 1 100 2.57 5 14 3.20 4 14 1.78 5 10 1.74 2 10 3.76 6 19 AREA: A 10 1.74 2 10 3.76 6 19 AREA: A 10 - 174 - 10 1.78 - 10 1.74 - 10 1.74 - 10 1.78 - 10 1.74 - 10 1.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

LINE I	NO	2+00	N		STAT		T,Q 1	30
STATION	Ele	ctudes	Volt	ige	Curr	1 %	REMA	ARKS
1100	Dp	N	VR	Vp	Ĉ,	PFE	F	7/t · P
1100	2	6	IMV	2-66N	.80	NR		1175
•	3	- 5	INV	2.25	.80	NR		1163
	4	4	INV)	.39″	.90	NR		1150
	5		101	.65	72	12.0	N	11 38
	6	2	10 3	5.58	.52	OSt	-	1125
1075	3	6	10 0	1.73	-90	NR		1150
	Y.	5	100	.13	.90	NR		1138
	5	4	10 0.	20	.72	NR		1125
	6	3	100.	30	-7	NR		11/3
1050	4	6	100	17	90	05-		1125
<u>.</u>	5	5	100	34	.72	NR		11 13
	6	<u> </u>	10 D.	.42	.52	NR		1100
1025	5	_6	IMV :	2.24	72	<u>NR</u>		1100
	6	5	Inv	1.90	15)	NR		1088
1000	6	6	MV	2.31	.52		· · · · · · /	1075
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JOB No.:	84	619	ARE		6V	DATE:	Novi	20/54
INST. TYP	E:	hoeus	xtl	PV-1	_SERIA	L No.:	+**	
OPERATO	R:7	M		. —		PAGE NO	»: <u> </u>	
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STATION Trate LINE NO. 2+001/ REMARKS STATION Elettodes Court 20 Voltage Ρ. 1 VEE Ďp Vp N Ve 2 3.14 .80 1288 1300 W. 10. 1275 100 1.30 ,5, . 80 3 2 1263 4 3 0.45 NR .90 10 1250 5 IM 2.62 NR 4 .72 5 1238 6 2.22 .52 NR /M 9.5 1325 1313 1.57 .80 11/-13.5 1300 80 2.27 2 10D 3 2.78 .80 12.0 1288 3 10 ч 2,14 .90 05 -1215 4 IM MR 05-1263 5 5 78 2:09 M ,52 05 -1250 1.89 $\boldsymbol{\oslash}$ 6 M 1350 100 2,90 .80 11.0 1325 と 3 13 13 6.61 ,80 15.0 10 3 2 1300 13.0 10 1.78 80 3 4 17.5N 1288 .90 1.25 4 5 IM 5 1.28 20+ 1275 .72 0.73 ,80 14.0 1338 12 00 132-5 2.46 4 16.5 1325 2 0 ,20 0.94 14.5 1313 3 80 S In 1300 0.74 ,90 4 6 M N R .80 15.0 1350 4 5.12 1400 10 2.20 180 1338 Ż 5 15t N 10 1325 1.06.80 10 n 3 .80 1363 5 1.74 1425 10 n 0.93 .80 1350 1D 2 0.56.80 10 NR 1375 1456 84619 ABEA: NOV DATE: NON 26784 JOB No .: INST. TYPE: Phoenix IPV- SERIAL No .: 3 E PAGE No .:. OPERATOR: METRES

- Carlos Antonio

LINE	NO.	21	\checkmark		STATI	ON_	<u>Tx /</u>	1300	
STATION	El.	trodes	161	tase	Court	90	REN	ARKS	1
Pi	Oy	N	VR	Up	ī	PF	E	Plt	Pt
1600	6	6	10	1.50	.80	N	R	1525]
1575	5	6	10	5.34	.88	16	.0	1500	
	6	5	10	8.16	.80	13	.5	1513	
1350	4	6	10	3-18	.72	13	0	1475	
	5	5	100	1.06	.88	11.	σ	1488	
	6	4	100	1.72	.80	9.	0	1500	
1525	3	6	10	2.57	.70	14	.0	1450	
 	4	5	10	3.44	.72	11.	5	1463	.
·	5	4	100	1.28	,88	9.	5	1475	1
	6	3	100	2,98	.80	8.	0	1488	
1500	12	6	10	1.91	174		ON	1425	
1	3	5	10	3.64	.70	12	51	1438	
	4	<u> </u>	10	5.35	.72	9.	5	1450	
	<u>ح</u>	3	100	2.48	188	8.	0	1463	
	0	2	100	8.22	.80	6.	5	1475	
1475	1	6	10	1.20	,74	N	R_{-}	1400	ŀ
	2	.5	10	3.39	.74	15	N	1413	
	3	4	10	6.73	.70	/3	.5	1425	ŀ
1997 	4	3	100	1-05	.72	9.	5	1438	
	5	2	100	6.23	. 88	6.	5	1450	ŀ.
. `	6	1	12	2.93	.80	6.	0	1463	
1450	1	5	10	2.40	.74	15	,0	1388	
	2	4	10	7.01	,74	12,	0	1400	
	3	3	100	1.46	.70	10	0	1413	
	4	2	100	2.71	,72	8.	0	1425	
	5		$l\nu$	1.78	.88	6.	5	1438	
JOB No.:_ INST. TYP OPERATO	84 E: <u>194</u> R: <u>L=</u>	619 R	IP.	REA: 1	SERIAL N	DATE:_ No.: GE No.	Nor . 4	20	
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STATION	Er f	1	11	11	6	107	DEN	ADVS
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1-1	VR	N	UR	VP	2		12	PIT,
1425	/	4	100	0.92	-14	11-	5	1375
	2	3	100	2.67	174	10	.0	1388
	3	2	100	6.92	.70		0	400
	4-	<u> </u>	11	1-44	.72	6.	5	1413
1400	<u>K</u>	3	100	2.72	,74	/2	5	1363
	2	2	11	1.02	.74	9.	5	1375
	3		11	4.37	170	3.	0	1388
1375	+	2	100	0.48	.74	0	r = r	
	2	-+	100	2.23	174	D	s =-?	
1350	1		IV	2.63	174	8	.5	1338
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1375	1	2	1V	0.36-	.74			
	2	1						
					1			
1375	7	2	100	5.15	.74	14	.0	1350
	2)	IV	2.52	.74	11.	0	1363
						<u>-</u> /	-	
							7x .	1450
500	1	1	IV	2.68	.90	10	0	1488
525	1	2	ion	5 88	.90	9	2	1500
	}	Î	11/	1.91	.88		2	1428
1550	1	2	100	2 49	90	<i>b</i> ,	-	100
	2	2	100	4 72	20	7		1715
	2	4	100	2 23	180	<u></u>	2	1707
	<u>,</u>		10	0.00	1-12	6	0	17 30
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JOB No.:	846	19	AF	REA: N	00	DATE:	Nou	20
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OPERATOR	:0	<u> </u>	<u>.</u>		PA	GE No		
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STATION	Elect	trilos	Vo	1tage	Euro	+2	RE	MARKS
P_{j}	DP	N	VR	VE	2 2	.PJ=	E	P/4. 4
1575	1	4	100	0.98	. 90	13	.5	1525
-	2	3	100	1.57	.88	10	.5	1538
	3	2	100	5.10	.92	6.	5	1550
	4)	10	2.80	.96	4.	5,	1563
1600	1	5	10	1.46	.90	14	N	1538
	2	4	10	1.95	. 88	14	N	1550
	3	3	10	4.48	.92	_11	N	1563
	4	2	100	1.53	.96	8.	5	1575
	5	<u> </u>	100	5-95	1.62	3.	5	1588
1625	<u> </u>	6	10	1.38	.90	/3	.5	1550
	2		10	1.54	. 88	ß	.5	1563
	3	4	10	2.63	. 92	10.	5	1575
	4	3	10	6.16	.96	10	0	1588
	1	_2	100	<u>/.31</u>	.62	¥.	5	16 00
11.50	6		/ <u>/</u>	2.01	. 5 4	2.	5	1613
1630	2	_6	10	1.01	.88	-14	0	1575
	<u> </u>	<u> </u>	10	1.53	.92	/3,	0	1588
· · · · · · · · · · · · · · · · · · ·	7	4	10	3.08	.96	//-	5	1600
	3	3	10	4.42	.62	10	0	1613
11	6	1	100	3.05	154	3,	5	1625
1675	3	6	10	1.03	.92	/3-	5	1600
	4	5	10	1.95	,96	_/3	0	1613
	<u> </u>	- 4	10	2.44	.62	11.	5	1625
	6	3	100	1.24	.54	<i>A</i> .	5	/637
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	0.4.5	10	1	A				
JOB No.: -	<u>846</u>	17	AF	REA: M	ov _	DATE:_	No	20
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LINE I	NO	2+	DD	$\underline{\sim}$	STATI	ON_	Tx_	1450 u
STATION	Ele.	ctureday	1/01	tage	Currt	2	RE	MARKS
Pi	DP	N	UR	VP	5	PF	Б	PIt.
17004	4	6	10	1.61	.96	/3	. 0	1625
	5	. 5	10	1.88	.62	12	. 5	1638
	6	4	10	7.86	.54	7.	0	1650
1725	5	6	10	1.23	.62	14	5	1650
	6	5	10	4.38	.54	11-	5	1663
1750				Ē	OL			
		Like		2 +00	5	/×	/3	15 W
	Pp	N	VR	Vp	2	YF.	É	
1425	<u></u>	/	11	2.63	.72	9.	5	1413
1450W	1	2	100	3.57	.72	/3.	5	1425
	2		145	3.01	,96	10.	5	/438
1475			100	0.90	,72	19.	5	1438
	2	2	100	5,30	.96	16.	5	1450
)		V	2.05	.70	12	. 5	1463
1500	1	4	10	1.24	.72	20)+	1450
	2	3	10	5.01	.96	20	+	14.63
	3	2	100	1.37	.70	_/_	1.5	1475
	4	<u>}</u>	100	6.97	,96	2	0+	1488
1525	1.	5	10	1.21	-72	_/9	5	1463
	2	4	10	4.03	.96	[7.	5	1475
	3	3	10	9.35	.70	14	.5	14.88
	4		100	3.45	.96	14.	5	1500
	5	1	100	7.34	:96	20	+	1513
					70			
1525	1 _E	6	10	0.55	170	20	+	1450
	04	610			(m 1 /			
JOB No.:_	07	6/7		REA: N		DATE:	Nou	·. d [
INST. TYP	E:	FR	<u>~ }}</u>		SERIAL N	lo.:	1	
UPEHAIO	n:				PA	GE NO		
		s et al.		ĒT	GMETRE	S	T	D

LINE	NO	2.	102	_ ح <	STAT		7x	1375
STATION	Elec	tudes	10	Hage	Curra	+ %.	RI	EMARKS
Pi	DP	N	Ve	Up	ź	PF	5	PI+Pf
1550	1	6	10	1.34	.72	10	p n	1475
	2	5	10	4.37	.96	9.	0	1488
	3	4	100	1.00	,70	6.	5	1500
	4	3	100	3.46	.96	6,	5	1513
	5	2	60	6.39	.96	11.	5	1525
	6		$l \nu$	0:87	.44	14	.5,	1538
1575	2	6	n	1-39	.96	8	\mathcal{N}_{i}	1500
	3	5	10	2.94	.70	6	\mathcal{N}	1513
	4	4	10	7. 29	.78	7.	5	1525
	5	3	100	1.79	.96	11.	5	1538
· · ·	6	2	100	1.76	144	/3	.5	1550
1600	3	6	10	1.36	170		N	1525
	4	_5	10	3.21	.78		0	1538
	5	4	10	6.00	.96	16	. 5	1550
11 7	6		10	3.02	.44	12	.5	1563
1625	4	6	10	2.87	,78	11.	5	1550
	5	_5	10	5.10	,96	16.	0	1563
77=-	6	-4	10:	2.2/	.44	18.	3	1575
1050	5	_6	10	2.18	. 96	20	+	15:75
117 -	6	_5	10	0.89	,44	20	+	1588
1615	6	6	10	0.84	,44	20	+	1600
							<u>.</u>	
1575	TE .							
	2011							
JOB No.: _	846	19	AR	$R_{IEA} = \frac{1}{2}$	00	DATE:	No	124
INST, TYPE	=/	R	x L		SERIAL	No.:	1	
OPERATO	-1: <u></u>	<u> </u>	<u>_</u>		PA	GE No,		
				т	EMETRE	ES .		
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LINE	<u>NO.</u> _	07			STATI	<u>ON</u>	<u>/x</u>	1315
STATION	Flee	todes	16	Itage	Con.	£ %	RE	MARKS
<u>P,</u>	DP	N	UK	UP	Ż	P	FE	Plt.
1375	12	1	IV	0.54	.96	/¥	1.0	1388
·	3	2	10	0 0.7	2.70	20	.0	1400
	4	3	100	0.37	.78	20.	0	1413
	5	4	10	2.94	-96	20	0.	1425
	6	5	10	0.31	v 44	20	14	1438
1250	1		IV	1.15	.72	/9	5	136
	R	2	100	1.67	.96	16	0	/375
	3	3	10	5.07	.70	18	0	/388
	4	4	10	3.52	.78	20	+	1400
	5		10	2.95	1.96	18	N	/413
	6		10	0.37	.44	20	+	1425
1325	1	_2	100	2.12	1.72	20	<u>+</u>	1350
	2	3_	100	0.56	.96	18	.5	1363
	3	4	10	2.33	.70	20	.0	1375
	4	5	10	1.79	.78	20	.0	1388
	5	6	10	1.53	.96	_24)+	14 00
300		3_	100	1.08	.72	18	0	1338
	4	4	10	4.05	.96	14	5	1350
	3	. 5	10	1.72	.62	15	.5	1363
	4	6	10	1.55	.78	14.	5	1375
1275	<u> </u>	- 4	18	4.00	.72	18	5	1325
·	2	- 5	0	1.66	.96	15	0	1338
	3	6	10	0.76	.62	16	.0	1350
250	1	5	10	1.26	.72	16	N	1313
	2	6	10	0.56	.96	_//	$\overline{\mathcal{N}}$	1325
225	1	6	10	0.97	.72	19	N	1300
LOB No,: _ INST. TYPE OPERATOR	84 C 	619 10011 R	AI	REA: NU	SERIAL N	DATE: _ o.: GE No.:	A/91 	/ 21
				EŤ		S		

Second Content

STATION	Elec	tuda	16	Hace	Curn	7 Ø	REN	ARKS
70	Dp	N	UR	Up	ź	PA	FE	PIt.
1675	6	6		N	R-			1150
100.	6	_ 5	10	0.27	.24	14	0	1163
	5	6	10	0.45	.42	15	5	1175
1125	6	_ 4	10	1.03	,24	/3.	0	1175
	5	_ 5	10	1.58	. 42	15	N	11 88
	9	6	10	0.70	.70	7	N	1200
1150	6	3	10	2.41	,24	16	0	? 1188
	5	4	10	3.41	.42	15	1.0	1200
	9	5	10	1.22	.70	12	0	1213
	3	6	m	3.86	.32	N	R	1225
1175	6	2	10	5.30	1.24	13	.5	1200
	5	3	10	6.04	.42	17	.0	1213
	4	- 4	10	1-55	.70	/3.	5	1225
	3	5	/m	4.71	.32	16	.5	1238
. <u>.</u>	2	6	1M	4.98	.38		5N	1250
1200	6		100	2.20	.24	16	.0	1213
· · · · · · · · · · · · · · · · · · ·	5	2	100	1.51	.42	20	.0	1225
	4	3	10	2.51	.70	16	.0	1238
	3	4	10	0.76	132	17	n N	1250
	2	5	10	0.64	.38	1	8N	1263
	1	6	IM	3.72	.46	19	N	1275
225	5	_ []	V	3.19	.42	14	1.5	1238
	4	2	100	1,70	.70	/4	+.0	1250
	3	3	10	2.98	,32	20	.0	1263
	2	4	10	7.20	.38	13	.5	1275
·	1	_5	10	1.16	.46	16.	5	1288
JOB No.:_	840	619			\sim	DATE:	Nor.	21
INST. TYPE	:_ <u>P</u> 4	<u>peni</u>	XI	PU-1	SERIAL N	lo.:		
OPERATO	₽; <i>L</i> Ē	1		·	PA	GE No.	:_7	
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TATION	Elect	todos	1/01	tage	Com	t	REN	ARKS
P.	Pr	N	VR	VP	5	P	FE	pt+.
250	4	1	100	13.05	1.70	14	. 5	1263
	\$ 3	2	10	00.5	9.32	20	0.0	1275
	82	3	10	3,14	.38	9.	5	1288
275	51	<u> </u>	10	1.57	1.46	13	. 0	1300
1275	943	18	$\mu\nu$	1.45	132	- 18	.0	1288
100	62	2	100	1.81	138		. 5	1300
1	1	3	10	6.68	.46		0	/3/3
1300			100	1,29	1.38	18		1315
	1		100	2,17	1.96		.0	1325
325	1	<u> </u>	Įν	1.35	176	14	. 5	1338
				<u></u>				
······································	Q7-	R		<u> </u>		ched	10	at
	172			La se	15-	$\frac{2}{2}$	1	
				110	100	<u> </u>		· · · · · · · · · · · · · · · · · · ·
					1.		3.1	
					1		71	
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	L		<u> </u>		1		L,	· · · · · · · · · · · · · · · · · · ·
JOB No.:	846	19	A	REA: N	0V	DATE:	Ne	5021
INST. TYP	E:	FD F	X A	LTV-	SERIAL	No.:	5	
OPERATO	H:		······································	÷	P	AGE NO	.:	
				ET	UMETR	ES		

VLF EM DATA SHEETS

	NO. <u>'</u>			Jeall 12
STATION	IN-PHASE	OUT of PHASE	STRENGTH NULL	REMARKS
125E	+33	+2	r 1	
100 E	+21	_)		
75	+17	+1		
50	+29	+6		
25	+24	+5		€
0+00	+28	+4		
	+28	+2		
50	+38	+2		
	+30	0	+6+2	the the Proved
100m	+22	-2	+6 0	Noll
	+30	0	+9 +14	14 11
50	450	-3	t9 +4	" Seattle an
	+35	+7	+6+1	
BOOW	+47	- 1	+4,0	
325	+33	+4	+10+2	0
50	+23	+3	+10+1	13-5
	+17	+3	+7+2	5.92
3000	+27	+3	+6-1	25 9
			+18 +5	C. F.
50			+22 +1	
8			+18-4	
4002		· · · · · · · · · · · · · · · · · · ·	48-2	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- 		+17 - 1	
50		· · · ·	+18-1	
	·	· ·	45-1	· · ·
500W		<u> </u>	+10+2	
25			+12+3	old Road
JOB No.:	84619	AREA: N	OV - DATE:	Nov. 16/8"
INST. TYPI	E EM-1	6	_SERIAL No .:	
OPERATO	R: ER	FACING:4	PAGE NO	»: /
V.I	F		PMETRES	TO

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Station and

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LINE 1	NO. 00+00	с)С	STATION_	Seattle
STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH NULL WIDTH	REMARKS
1775	0	-3 /		
	+2	+4/		
750	-2	\checkmark		
• •	0	A7	<u> </u>	
1725	01	-4	Kerdone	· · · · · · · · · · · · · · · · · · ·
19				
1+00	+17	- 6	•	
117-	12			
1645	A T	+ 1		
11 Sh	0	14		
10.70	<u> </u>	70		
1675				
1042				
	Line 2N			
		1		
1700	-1	- 1	f.	<i>.</i>
1675	-2_	0		-
K50	-2	+2		
1625	-4	+5	- 16	· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·
·		-	-	
· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
i	1dria		01/	Novi KLKU
JOB NO.:_	E: FM-		SERIAL No:	VUV LUIST
OPERATO	R: TRM		Vest PAGE No	.:O
V.	L.F.		METRES	TO
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LINE N	<u>1000+0</u>	0	STATION_	reattle
STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH NULL WIDTH	REMARKS
1775	0	-3		
750	*-2	0		
725	0	-4		
100	+11	-6		
1675	_+7	-1		
1650	0	+6		12.00
1625	-11	+5		
1600	+ 5	+/		
1575	- 5	-4		
550	-2	+6		
1525	-2	+5		
1500	-1/-	+2		
475	$\frac{-\tau}{1}$	-3		
450	- 1	-4		
· U/2>	-4	-9	· · · · · · · · · · · · · · · · · · ·	
1700	- 9		·	
1200	->-	-1		
330				· · · · · · · · · · · · · · · · · · ·
2-5	-2	0		
122	-4			
1250	-4	$\frac{-\tau_1}{-1}$	·	
270	-5	+1		
200	-6	1		
175	- 2		·····	
115	-2			
1125	-6	4		
ilast	-6	+3		· · · · · · · · · · · · · · · · · · ·
JOB No.:	84619	AREA: 1/S	DATE: 1	In 18144
INST. TYPE:	EM-	16	SERIAL No .:	
OPERATOR	TRM		ST_PAGE NO .:_	1
VL	F			

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STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH NULL	REMARKS
1075	-4	+1	/ 1011	
1050	-3	0		
025	<u> </u>	-2		
icou	- 3	-1		
975	- 3	-2		
950	<u>~ 6 -</u>	0		
925	<u></u>	+1		
900	-2	- 1		
875	-	-5		
83	+1	-6		
825	+1	-4		
Se)	0	0		
775	- [+4		
7550	<u></u>	\Box		
72.5	+5	-3	· · · · ·	· · · · · · · · · · · · · · · · · · ·
700	+ 7	-2		an an tai
275		-3		
650	-8	-2		
625	-6	-2		·
600	- 11	+2		
575	- 6	-2		· · ·
550	+ 7	0	·	
525	+9	O		
500	0	\overline{O}		
475	0	+2		
450	\bigcirc	+4		
25	+5	-1'		
400 L	+7	-1		
OB No.:	84619		OU_DATE:	Nov 18184
INST. TYPE:	EM-	<u>/6</u> FACING:	SERIAL NO .:	
V.L	.F.		METRES	

STATION	IN-PHASE	OUT of PHASE	FIELD NULL	REMARKS
00	O	-1	/ / IID	
25	-2	-3		
so	-7	0		
100	-10	-1		
125	-2	+		
150	43	+2		
175	+1_	-/-	1	
200		-5	wider	
100	-4		null	
875		-2		
1/2 +	1+4	4-7		
325		3-6	VN	Ener mint
350	- 7	-7	VN	1
375	- 3	-52	VŇ	+
400	45	-6		
Line	2+00	\mathbb{N}		
20	- 5	-2		
25	- 2	-4		
客	-6			
75	-7	-5		
00		-2		
125	-2	-2		l.
	-4		150	
		-/	175	
<u>H</u>		-72	200	
	84610	A//	717	14/20
JOB No .:	EM-	AREA: 100	SERIAL No	
PERATOR	TRM		23 PAGE No	
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TATION	IN-PHASE	OUT of PHAS	E FIELD	REMARKS
20-	2	A	WIDTH	
425	-)	. 0		1 711 1
230	<u> </u>			while
2/201				
220			1	
20	<u> </u>	$\left \begin{array}{c} 0 \\ 0 \end{array} \right $	VV Cler	
270	-1	ñ.		
422	<u>a</u>	-4		
425	-110	+2	VAL SING S	aras moth
40	-10	76		
435	= 15	+6		
szo	- 19	+15		
525	-20-2	6 + 14		
53	-22	+12		
575	-15	+20	VERY WIL	o mult
600	-5	+16	J	
25	-11:00	+14		
550	-16	+\$		
675	-19	+10	1	
700	-32	42	Wide nu	∥
725	7-16	+#4		
750	- 1	+2		legel
775	-9	0		
20	-11	-4		
325	- 5	+2	7	
850	- 5	+2		
375	-7	Õ	1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
RO	- 7	+1		
JOB No.:	84619	AREA:	DATE:	Nov 14 Kg
INST. TYPE	TPM	<u> </u>	VEST NO.	
OPERATOR		FACING:	PAGE No	
			12 METRES	

しょう てきし	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	24 10.14	
	1.1.1.1.1.1		
	1 A.M.		
	- 12 <u>6</u> -		
	1257		

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	10. <u></u> +	ÓON		cattle
STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH WIDTH	REMARKS
72.5	-26	+6		
1:30	-20	<u>-ĭ</u>		
775	-12	+3		
∞	-15	1 + 10		
1925	+*/			<u>i segur</u>
Osto -	-19	***		
(A)	-15	<i>F10</i>		
1 set	***			
125	+(1			
175	<u>* 3</u> 2 7	-4		
200	+20	P		
1-17=	<i>~</i> 18			
1250	- 5	-114	VAL	
1275	-7	-10	VŇ7	
300	0	74	hlide	n. A
1325	=3	0		
1350	-5	43		
375	-5	+1	Ŧ	
40	-4.	0		
1425	- 1 S.	-2		
14:50	-2	72		
47-1	-4	-1-		*
50	-2	0		
525	-5	-2		
550	-3	-4		
515	- 7	-4		and a second second Second second
60	+3			
108 No.:	84619		VOV DATE:	Nov 14/84
NST. TYPE:	TRN	-10-	SERIAL No.:	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
JFERAIOR		Facing: <u>V V</u>	<u> </u>	:
V.L	. F.	DFEET 🐎 🖲	METRES	

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LINE N	NO. 12+C	<u>US</u>	STATION_	Seattle
STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH WIDTH	* REMARKS
325E	+33	7		
300	+24	-5		
275	+22	-3	4 oh	<u>(1)</u>
250	+20	o		
225	+20	+ \$		
200	122	0		
175	+25	-2		
150	大人キ	-3		
125	+20	-4	an an Araba	
100	+23	-3		
75	+20	-2		
50	+21	イン		
25E	+23	+)		
$\left[\infty \right]$	+20	0		·
25W	+21	0		
50	+23	+1		
75	+22	-2		
100	+19	+1		
125	+18	+2		
150	+17	+3		
175	+17	+2		
200	+13	6		level
225	+20	$\overline{\mathcal{O}}$		uphill
250	+24	+2		
275	+23	12		
300	+32	-4		
325	+29	- 3		
350	+14	10		
JOB No .:	84619			Nov21184
INST. TYP	E: EM	-16	_, SERIAL No.:	· · · · · · · · · · · · · · · · · · ·
OPERATO	R: TRM	FACING:	25 PAGE NO	»:
V .	L.F.		METRES	T2 -

LINE I	NO/2+0	205	STATION	Seattle
STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH WIDTH	REMARKS
3751	1 + 26	+2	wider	null
400	+24	\mathbf{O}		
425	+10	+10		
450	+24	-4		
473	+23	-6		
500	+20	-8		
	·	\sim		
6	11e 14t	ω_{S}		
500	1147			
300	+15	- 2		
450	+76	+ \		
475	+44	+3		
400	+27	-6	· · · · · ·	<u></u>
B75	+2.4	-		
350	+27	+6		· · · · · · · · · · · · · · · · · · ·
325	+26	+6		
	· · · · · · · · · · · · · · · · · · ·			
				in en en en tribue. Anne en
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	04619	A L.		1/2 51/20
JOB No,: _	EM-1		ALL DATE:	NOV LUCT
OPERATO	R: TRM		AST PAGE NO	
V . I	L.F.		EMETRES	T2 _

STATION	IN-PHASE	OUT of PHASE	FIELD STRENGTH NULL	REMARKS
3500	+2	0	WICR	nill
1325	-5	-4		······
1300	+7	+9		
1275	- (1	-5	\$	
250	+10	-2		
1225	-4	- 11	4	
1200	+2	12 .		
1175	+2	<u> </u>		
1150	47	-2		
112 > 112	- 4	+4	-17	<u> </u>
1 Control			-1+	<u> </u>
1 A	<u> </u>	+2		
ICK	+14	-11		
1/10	W-18	-5		
in		2		
1275m	-3	-5	wide	mill
40	-18	-4		
425	-15	+4		
1450	-6	+5		
1475	-2	0		
1970	-5	-5		1
1525	-6	+ 1	VENJ MO	e nul
153	- 4	-3		
1525	+2			
in	+3	-3	160 -3	
162	- 8	+0	17	out
150	- 3	1+4	11+00+1-	NAV 21 K
JOB No,:	E. EN	AREA: /VC	SERIAL NO.	INUY ALTE
OPERATO	R: TRM		PAGE NO	-3
\/ I		NEET	CHUETBES	-

MAGNETIC DATA SHEETS

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LINIC		den .		- 61	5 578	08 m
	D PAGE	20 - 71	JPERATOR AL		5781	2 8
TIME	STATION	READING	BASE STN.		FINAL	REMARKS
9.4	17+151	57810	HEADING	COnn.	VALUE	
41	50	₹11				· · · · · · · · · · · · · · · · · · ·
-	25	813				
42	11+00L/	805				
~	-	816				
43	50	814	ć .			
-	-	102				
944	16+00	813	-			
945-	-	8/0				
46	50	814				
-	-	815				· ·
.47	1500	818				
	-	816				
48	50	820				
48 -	-	820	-			
49	1400	826	-			<u></u>
-	-	821				
50	50	825				
_	-	824				
952-	1300	830				
953-	_	823				· · ·
54	50	819				
955	~	825				· · ·
50	1200	820			· ·	
57	4	816	· · · · ·			
9:58	50	57 816				
DATUM L	EVELS: EAS	e stn: <u>57</u> 0	800	FIELD BA	SE	۵
JOB NO.	846	19	AREA NO	/	DATE Nov	20 /84
INST. TYP	PE	6-916	·	SERIAL NO.		
OPERATO	ж <u> </u>	N		P	AGE NO	
MAG	NETIC		ON GATE			

FIEL	D BASE		. R	EADING		حک	
TIME	STATION		BASE STN. READING	TOTAL CORR.		REMARKS	
10:01-	11+250	57819					
02-	1100	814					
03-	-	823					
04	50	821					
<u>)5</u>	_	832					
06	10400	828	•				
01	-	. 827					
08	50	826					
09		830					
10	9100	831					
11	-	831					
14-	50	833			· · · · ·		
15-	-	834					
11-	8+00	833					
17-	-	830					
18-	.50	527					
19-	-	824				·	
21	700	821					
22	-	838					
23	כד	839					
24	-	839			1		
1	1.00	840					
3h-	-	842		·			
27-	20	837					
28-	-	846					
n 2G-	500	57 844	· · · · · · · · ·				
		F STN:					
	SNG	19	ADEA NIA		DATE NOU	20/84	
JUB NO.		- 516	HILA 121		UNIC TIVY		
OPERATO)R	12N	· · · · · · · · · · · · · · · · · · ·	F	AGE NO.	2	
		PROT	ON				

and the second s

FIE	D BASE		. R	2		
TIME	STATION		BASE STN. READING	TOTAL CORR		REMARKS
1031-	475W	57845				
32-	50	845				
33-	-	852				
34-	400	849				<u></u>
- 35-		852	· · ·			
36-	-	854			L	<u></u>
31-	-	764		****		
39	300	861				
40		863				
41-	50	871			↓	
H3	-	881	· ·			
<u> 44</u>	220	870			 	
<u> 44-</u>	• -	870				
41	5৩	871				
	~	870	1 A.			
- 44-	100	872				·······
51.	-	871				
52	50	869			<u> </u>	-
53-	~	873				
054-	0	57 869				
					<u> </u>	
·						· · · · · · · · · · · · · · · · · · ·
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					<u> </u>	
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DATUM L	EVELS: BASI	E STN:	1	S FIELD BA	SE	
JOB NO.	8461	9	area _ <i>N</i> (21		20/84
INST. TYP	PE	6-816	\$	SERIAL NO.		2
OPERATO	R KI			P/	AGE NO.	

LINE	NO. 2	HUO N	OPERATOR A	DJUST		3
FIE	LD BASE		- R	EADING		<u> </u>
TIME	STATION		BASE STN. READING	TOTAL CORR		REMARKS
11:07-	1+25W	57861				Road
09	50	859				
14	-	858				
15-	2100	854				
16-		857				
ル	50	853		•		
19-		846				
20-	300	845				
21-	-	- 844				
22-	57)	848				
23-	-	847				
24-	400	847		· .		
25-	-	846				
27-	- 50	\$43		· · · ·		
- 29 -	-	ষ্ঠিম				
31	うっか	842		-		
32	-	837				
33	50	835				
- 34-	-	848				
36	600	841				
37-	· · •	840				
_ 39	50	839				
40	-	873		-		
HI	700	840			-	•
42	-	839				
1143-	750 U	57841				
DATUM LI	EVELS: BASE	E STN:	7	FIELD BAS	SE	8
JOB NO.	846	19	REA NOI	<u> </u>	DATE NOV	20184
INST. TYP	е <u>́</u>	- 816	s	ERIAL NO.		
OPERATO	R/		· · · · · · · · · · · · · · · · · · ·	PA	GE NO	4
MAG	NETICS		ON GATE			
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LINE NO. 200 N OPERATOR ADJUST ъ FIELD BASE ъ READING BASE STN. TOTAL TIME STATION REMARKS READING CORR. 11:47 7+150 57837 48 800 835 49 834 ----.50 50 835 830 51 _ 52-900 830 53- -831 54- 50 829 56 821 -56- 1000 827 828 51-58-50 829 833 11.59-----1200- 1100 828 821 01-_ 02-50 824 823 63--820 04-1200 SIL OB-~~~ 815 07-50 817 08-----09-1300 819 22 814 -23 50 816 24 821 ~ 521 1400 DATUM LEVELS: BASE STN: FIELD BASE S. JOB NO. 87619 AREA NOU DATE NOV 20/54 INST. TYPE $\frac{G-8/6}{RN}$ SERIAL NO. PAGE NO. ______ PROTON MAGNETICS FLUXGATE

	NO	100/		DJUST		0
FIE	LD BASE		R			<u>م</u>
TIME	STATION		BASE STN. READING	TOTAL CORR		REMARKS
1227	14256	57824			•	
- 28	50	826				
29		824	14			
	1500	826				
30	-	828				
31-	50	831	•			
32-		8/8				
	1600	165				TRUCK :
34-	-	818				- 57817
35-	- 50	818				12=43-
36-		\$16				100'
31-	1700	816				
38 -	<i></i>	820				
	37T					
13 1	56 90	DOTON				\$
1:00		57818	57807	-7	57811	
	i					· · · · · · · · · · · · · · · · · · ·
	LINE	4/20	S			
43		-373-22				
1:21		57825				Rond
22	0	827				<u></u>
23-		026				······
		- UAU		. 1	<u> </u>	
						· · · · · · · · · · · · · · · · · · ·
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			L * _ L		<u>I </u>	
DATUM LE	VELS: EASE	· SIN: / Ω	ŏ	FIELD BAS	SE	ŏ
JOB NO.	0761	- <u>×1(</u>	REA <u>NO</u>		DATE /Vg	101 87
INST. TYPI		N	S	ERIAL NO.		6
UPERATO			DN	PA	GE NO.	
MAGI	NETICS	5 8 500	ATE			

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LIÑE	NO.	Ltubs			0	۵
FIE	LD BASE		_ [^] R	EADING		თ
TIME	STATION		BASE STN. READING	TOTAL CORR.		REMARKS
1:32	1375	57823	810			
33	50	825	811		-	
34		821	811	· · ·		
35	1300	821	811			
Bb		825	811			
36	50	825	811			
39-		827	811			· · ·
<u> 40</u> -	1200	525	811			·
43	-	823	812			
44	50	826	812			
45	-	824	812			
46-	1100	821	812	-		
48-		819	812			
49-	50	827	812			
50 -	-	883	912			
152	1000	51829	311			· · ·
		LINE	No	4,1000	6	
2:03-	12 10toon	57823	808			
04-	-	825	809			
06	50	825	810			
98		823	808			
09-	1100	821	809			-
11	_	824	811			
12	50	82H	811			
		817-	8/1			
DATUM LE JOB NO.	EVELS: BASE 8461 e G-8	stn:	AREA <u>NO</u>		DATE NOJ	20184
OPERATO	R2	N		PA	GE NO	3
MAG	NETICS		ON GATE		T	

FIF	ID BASE					م
TIME	STATION	READING	BASE STN.		FINAL	REMARKS
1.15-	12011	57815	2/7	COnn.	VALUE G	-
16-	12016	\$19	ر <i>ر</i> رو ارز و	<u></u>		
17_	57)	817	215		1	
19	-	TT6	815			
21-	1300	XH C	x15			
27	-	\$32	815	•.		ter te
27	50	831	814	1. 		ROAD
24		828	814			
25	1400	827	814			AFTER
26	~	827	814	······		
27	50	826	814	· · · · ·		
28-	-	826	816			
29-	150	827	817			
33-		833	819			.
35-	50	57 831	8,20			
	-					
	1600					<u></u>
		LINK	2700	3		
247	~	57822				a
· · ·	·					<u> </u>
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	-					1.
DATUM L JOB NO. INST. TYF OPERATO	EVELS: EASE 84161 PE PRR	e stn: 19 - A 816 11		FIELD BA	SE DATE AGE NO	8 1 <u>1</u> 84 8

INDUCED POLARIZATION CALCULATION TAPES

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RESISTIVITY & METAL FACTOR

"STA" - sub-surface plot point
"N" - electrode spacing multiplier
"M" - percent frequency effect
"Pa" - apparent resistivity
"MF" - metal factor

		1288 1 10.5 185 57 1275 2 15.5 31 506 1263 3 -1.0 2 -424 1250 4 -1.0 3 -292 1238 5 -1.0 7 -142		1375 4 1388 3 1400 2	11.5 117 98 10.0 170 59 5.0 186 27
AREA :NOV DATE :NOV. 20, 1984 LINE :2+00 N STA N M Pa MF 1263 1 15.0 42 356		1313 1 9.5 92 103 1300 2 13.5 53 252 1288 3 12.0 16 733 1275 4 -5.0 2 -2231 1263 5 -5.0 5 -1044 1250 6 -5.0 10 -521	•	1413 1 1363 3 1375 2 1388 1 1350 2 1363 1	6.5 74 69 12.5 173 72 9.5 260 37 3.0 294 10 14.0 131 107 11.0 160 69
1250 2 19.0 3 5719 1238 1 14.5 18 826 1238 3 20.0 3 6394 1225 2 15.0 6 2497	•	1325 2 11.0 68 161 1313 3 15.0 39 385 1300 4 13.0 21 620 1288 5 17.5 2 7639		1338 1 1488 1	8.5 167 51 10.0 140 71
1213 1 15.0 5 2836 1225 4 -5.0 5 -1061 1213 3 20.0 2 10610 1200 2 -1.0 1 -987 1188 1 20.0 3 7748		1275 6 20.0 5 4263 1338 3 14.0 43 326 1325 4 16.5 29 569 1313 5 14.5 19 748 1300 6 18.0 2 8296		1500 2 1488 1 1513 3 1525 2 1538 1	9.5 123 77 6.8 102 59 11.5 130 88 7.5 102 74 6.9 117 51
1213 5 20.0 11 1902 1200 4 -1.0 4 -274 1188 3 -1.0 1 -679 1175 2 20.0 1 34105		1350 4 15.0 60 249 1338 5 15.0 45 331 1325 6 11.0 35 315 1363 5 17.0 36 474		1525 4 1538 3 1550 2 1563 1	13.5 103 132 10.5 84 125 6.5 104 62 4.5 137 33
1163 1 16.5 5 3237 1225 6 -1.0 8 -121 1200 6 20.0 3 7579 1188 5 14.5 8 1715 1175 4 9.5 4 2304		1350 6 -1.0 31 -33 1375 6 -1.0 18 -54 1525 6 -1.0 49 -20		1538515504156331575215881	14.0 27 523 14.0 21 670 11.0 23 479 8.5 30 283 3.5 45 77
1163 3 20.0 2 13171 1150 2 15.0 12 1240 1138 1 20.0 23 859 1175 6 -1.0 9 -114		1590 6 16.0 160 100 1513 5 13.5 168 80 1475 6 13.0 117 112 1488 5 11.0 199 55		1550 6 1563 5 1575 4 1588 3 1499 2	13.5 40 334 13.5 29 468 10.5 27 390 10.0 30 331
1163 5 -1.0 5 -218 1150 4 -1.0 1 -687 1138 3 12.0 11 1111 1125 2 20.0 13 1541		1500 4 9.0 203 44 1450 6 14.0 97 144 1463 5 11.5 79 146 1475 4 9.5 137 69		1613 1 1575 6 1588 5 1600 4	2.5 175 14 14.0 30 462 13.0 27 474 11.5 30 380
1150 6 -1.0 8 -1.32 1138 5 -1.0 2 -420 1125 4 -1.0 302 -38 197 -1113 -3 -1.0 271069 4		1425 6 18.0 68 264 1438 5 12.5 86 146 1450 4 9.5 70 136 1463 3 8.0 133 60		1613 3 1625 2 1600 6 1613 5	10.0 34 298 3.5 106 33 13.5 30 457 13.0 34 388
03 1113 3 -1.0 3 -368 1125 6 -5.0 5 -1003 1113 5 -1.0 8 -128		1475 2 6.5 194 34 1400 6 -1.0 43 -23 1413 5 15.0 76 199 1425 4 13.5 91 149		1625 4 1637 3 1625 6 1638 5	11.5 37 310 4.5 108 42 13.0 44 294 12.5 50 250
1100 4 -1.0 8 -131 1100 6 -1.0 8 -122 1088 5 -1.0 6 -166 1075 6 -1.0 12 -85		1438 3 9.5 69 138 1450 2 6.5 133 49 1463 1 6.0 173 35 1388 5 15.0 53 280		1650 6 1663 5	14.5 52 277 11.5 134 86
		1400 4 12.0 89 134 1413 3 10.0 98 102 1425 2 8.0 71 113 1438 1 6.5 95 68			

1438 1 13.0 140 93 line 0+00 page 1

									1113	1	12.5	169	3 74	
 1077		40 E	005	473		<u> </u>								
1263	1	10.0	220	47					1190	2	13.5	136	; 99	
									1028	1	10.5	217	1 49	
1250	2	10.0	219	48					1000	-	1010			
1238	1	12.5	169	74					1000	- 7	<u>-</u>	E i	707	
									1000	С	29.0	- J.L 	373	-
1238	3	10.5	141	74					10/5	2	18.0	116	× 15	D
1005	5	11 0	147	75					1063	1	10.5	135	5 78	
1660	<u>د</u>	11.0	171	75										
1213	1	11.0	177	52					1075	.4	17.0	36	466	
									1963	3	13.0	. 83	157	
1225	ą	10.5	168	- 97					1050	2	11.0	137	3 83	
1213	3	13.0	113	115) .				1077	1	95	274	41	
1200	2	10.0	169	59			1		1901	1	21.0	697	71	
1188	1	11.0	199	55					1017	-				<i>.</i>
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1217	ç	11 0	01	174		÷			1050	4	18.5	38	484	
1210	್ತೆ	11.0	01	100					1038	- 3	17.0	64	267	
1600	.4	11.5	Q(4.07	140					1025	2	12.5	151	83	
1188	5	13.0	125	103)				1013	Í	11.0	144	76	
1175	2	10.5	191	- 55						-		-		
1163	1	19.0	204	93					1050	ź	-1.0	14 .	.71	
									10-10	י ב	-1.0	177	11 503	
1200	6	18.0	48	379					1000	J	13.0	38 57	302	
1188	5	-1.0	53 -	19		ł			1025	4	15.0	. 57	263	
1175	Ā	17.0	20	147					1913	3	13.0	133	98 (
44/7	7	10.0	170	171					1000	2	12.5	166	5 75	
1100	С	16.0	100	71					988	1	8.0	239	34	
1150	Z	11.0	184	60										
1138	1	10.5	208	51					1025	Ŕ	-1.A	14 -	-71	
									1010	ŝ	_1.0	56 .	.70	
1175	6	-1.0	25 -	40		i.			1010	ن د	1.0	20	- 107	
1163	.5	14.0	36	387					1000	- 7	14.0	- 74	197	
1150	4	13.0	62	211				1 A	<u> 988</u>	5	15.5	93	167	
1170	7	11 5	92	126					975	2	10.5	166	63	
11-00	0 0	11.5	177	120										
1120	4	11.0	100	01					1000	6	15.0	14	111	1
									988	5	19.0	34	554	
1150	6	-1.0	21 -	48					975	4	14.5	54	268	
1138	5	17.0	30	566					947	7	14 0	<u>a</u> o	142	
1125	4	15.0	50	302			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		703	С.	14.0	-0	172	
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									970	b	18.0	15	1115	
1125	6	20 Q	10	1929	ł				963	<u>,</u>	20.И	22	917	
1117	Ę	17 0	10	977				1	950	4	14.5	50	289	
1130	J A	15 0	70	300 464										
1100	4	13.0	J <u>C</u>	404					950	6	20.0	20	979	
				. .					938	5	19.5	51	383	
1199	6	-1.0	12 -	81										
1088	5	16.0	19	824			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		925	6	20.0	44	457	
									2013	~	201 W.	• 1	101	
1075	6	-1.0	12 -	88										

Contraction (1997)

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Contraction of

AREA Date Line Sta	: NOV : NOV : 2+0 N	. 21, 0 S M	1984 Pa	MF		1306 1363 1375 1388 1400	
1413 1425 1438	1	9.5 13.5 18.5	172 93 148	55 144 71		1338 1350 1363 1375	;
1438 1450 1463	3 2 1	19.5 16.5 12.5	59 104 138	331 159 91		1325 1338 1350	; ; ;
1450 1463 1475 1488	4 3 2 1	20.0 20.0 19.5 20.0	16 25 37 34	1232 813 529 585		1313 1325 1300	
1463 1475 1488	5475	19.5 17.5 14.5	28 40 63	704 442 230		1150 894	
1500 1513	2	14.5	68 36	214 555		1175	ĺ
1450 1475	6 6	20.0 10.0	21 49	965 204		1175 1188 1200	
1488 1500 1513 1525 1538	547921	9.0 6.5 6.5 11.5 14.5	75 135 170 125 94	120 48 38 92 154		1188 1200 1213 1225	
1500 1513 1525 1538 1550	60 UD 147 FV3 CU	8.0 6.9 7.5 11.5 13.5	38 69 97 88 75	209 87 78 131 179		1200 1213 1225 1238 1250	
1525 1538 1550 1563	64 - 64 GY	11.0 11.0 16.5 19.5	51 68 59 32	215 162 289 603		1213 1225 1238 1250 1263	12 13 41 15
1550 1563 1575	6 5 4	11.5 16.0 18.5	97 88 47	118 183 391		1275 1238 1259	6 1 2
1575 1588	6 5	20.0 20.0	60 33	334 599		1263 1275 1288	- 3 4 5
1690	6	20.0	50	397		1263	1
13 8 8 1400 1413 1425	12134	18.0 20.0 20.0 20.0	27 19 22 29	679 1032 895 693		1275 1288 1300	234
1438	5	20.0	12 75	1721		1288 1390	12
1363 1375 1388 1400 1413 1425	123454	17.5 16.0 18.0 28.0 18.0	75 33 34 43 51 22	209 488 527 470 355 981		1313 1313 1325 1338	3 1 2 1
1420	Q	28.U	44	701			

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1350 1363 1375 1388 1400	2 3 4 5 6	20.0 18.5 20.0 20.0 20.0	56 27 31 38 42	360 673 638 528 476	a the second the state of the state of the second state of the
1338 1350 1363 1375	3 4 5 6	18.0 14.5 15.5 14.5	71 40 46 52	255 365 339 277	and the second
1325 1338 1350	4 5 6	18.5 15.0 16.0	52 29 32	353 526 495	· · · · · · · · · · · · · · · · · · ·
1313. 1325	5	16.0 11.0	29 15	554 715	
1300	6	19.0	36	534	
1150 894	6	-1.0	+30	2 -37	7
1163 1175	56	14.0 15.5	19 28	755 548	
1175 1188 1200	456	13.0 15.0 7.0	40 62 26	321 242 265	
1188 1200 1213 1225	10 4 UD 40	16.0 15.0 12.0 -1.0	47 77 29 32 -	338 196 417 31	and and a set of the s
1200 1213 1225 1238 1250	21240	13.5 17.0 13.5 16.5 15.0	42 68 21 24 35	324 251 647 680 434	
1213 1225 1238 1250 1263 1275	0. 61 42 10 10	16.0 20.0 16.0 17.0 18.0 19.0	43 68 17 22 28 21	370 295 947 759 648 890	 A provide the second sec
1238 1250 1263 1275 1288	123.	14.5 14.0 20.0 13.5 16.5	358 46 44 55 42	41 306 456 247 397	
1263 1275 1288 1300	1- 72 1-2 -4	14.5 20.0 9.5 13.0	21 29 39 2 32	706 679 44 404	
1288 1390 1313	1 2 3	18.0 18.5 18.0	214 90 68	84 206 263	and the second sec
1313 1325	1 2	18.0 17.0	90 90	199 189	
1338	1	14.5	136	106	

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AREA Date Line Sta	: NO : NO : 12 N	V V 17 +00 S N	P	a M	F
288 275 262 250 238	C.T. after C.J. P.D. more and	11.0 20.0 -5.0 -1.0 -1.0	323 93 15 - 26 - 27 -	34 215 337 38 36	
263 259 238 225	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8.0 11.5 5.0 5.0	606 128 12 - 32 -	13 90 403 157	
238 225 213		5.5 20.0 20.0	695 28 8	8 720 2612	
213 200	1 2	7.5 20.0	238 11	31 1744	
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MAGNETIC CALCULATION TAPES

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150	57859	-5	57854			1	825	57828	-5	57823
175	57858	-4	57854		1.1	1	858	57829	-6	57823
200	57854	-4	57850			1	975	57833	-6	57827
225	57857	-4	57853		:	1	199	57828	-6	57822
250	57853	-4	57849			1	125	57821	-7	57814
275	57846	-4	57842			1	150	57824	-7	57817
300	57845	-4	57841			1	175	57823	-7	57816
325	57844	-3	57841			1	200	57820	-7	57813
350	57848	-3	57845			1	225	57816	-7	57809
375	57847	-4	57843			1	250	57815	-8	57807
499	57847	-5	57842			1	275	57817	-8	57809
425	57846	-6	57840			1	390	57819	-8	57811
450	57843	-5	57838			1	325	57814	-4	57810
475	57848	-4	57844			1	350	57816	-4	57812
500	57842	-4	57838			1	375	57821	-4	57817
525	57837	-4	57833			1	499	57821	-4	57817
559	57835	-4	57831			1	425	57824	-4	57820
575	57848	-4	57844			- 1	459	57826	-4	57822
600	57847	-4	57843			1	475	57824	-4	57829
625	57840	-4	57836			1	500	57826	-4	57822
650	57839	-4	57835			1	525	57828	-4	57824
675	57843	-4	57839			1	550	57831	-4	57827
709	57840	-4	57836			1	575	57818	-4	57814
725	57839	-3	57836			1	600			
750	57841	-3	57838							
775	57837	-3	57834			1	625	57818	-4	57814
809	57835	-3	57832			1	650	57818	-3	57815
825	57834	-3	57831			. 1	675	57816	-3	57813
859	57835	-3	57832			1	780	57816	-3	57813
875	57830	-3	57827			1	725	57820	-3	57817
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450	57845	-6	57839
425	57852	-7	57845
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375	57852	-8	57844
350	57854	-8	57846
325	57864	-9	57855
300	57861	-9	57852
275	57863	-9	57854
250	57871	-9	57862
225	57881	-10	57871
200	57870	-9	57861
175	57870	-10	57860
150	57871	-9	57862
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1 1 1 1 15.0 19.0 20.0 18.5 20.0 ((1.0) 20.0 (14.0) 20.0 · · · · · · · · · · · · · · · · MR @ 14 NR NR 20.0 11.0 20.0 20.0 17.5 11 8 8 12 7 1067 1460 1132 NR NR 1545 1323 6996 2136 2763 $? \leftarrow = = = = = ?$



