

83-#299-11371

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RYAN ENERGY CORP.  
GEOPHYSICAL REPORT  
ON AN  
Airborne VLF-Electromagnetometer and  
Magnetometer Survey  
ACE 1 - ACE 8 claims; Kamloops Mining Div.  
Latitude 50°30'N Longitude 121°34'W  
NTS 92I/5E 92I/12E  
Authors: E.Trent Pezzot, B.Sc. Geophysicist  
Glen E. White, B.Sc., P.Eng.  
Consulting Geophysicist  
Date of Work: July 5, 1983  
Date of Report: July 14, 1983

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,371**



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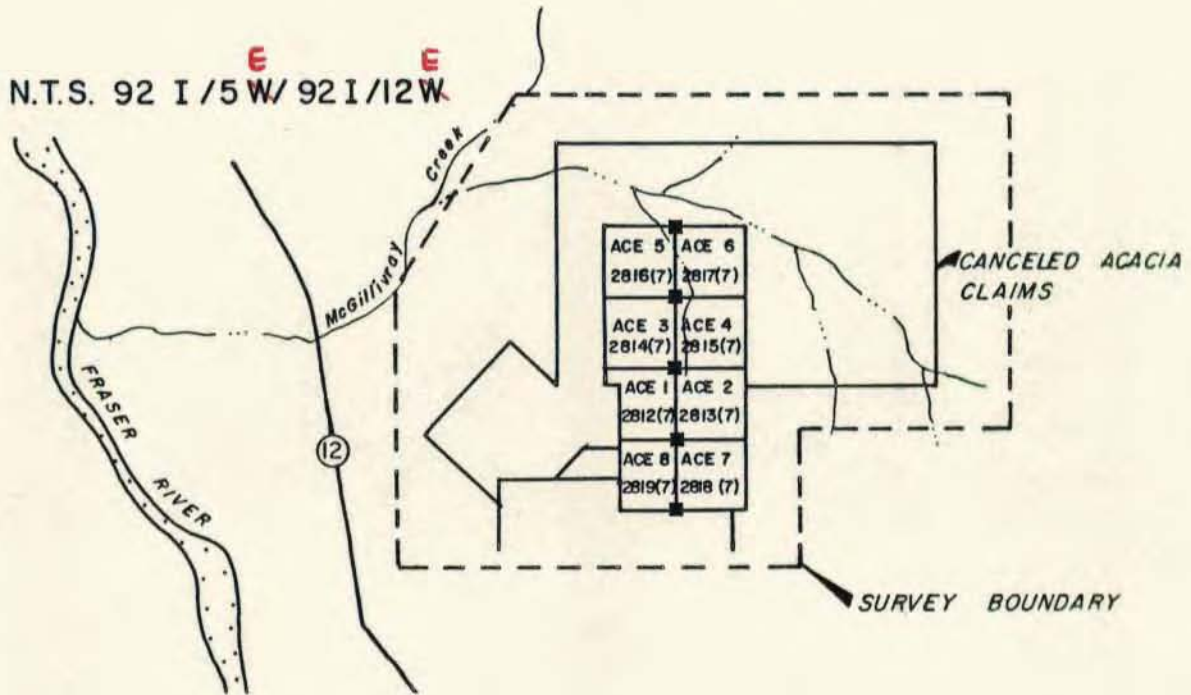
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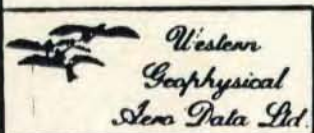
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RYAN ENERGY CORP.  
LOCATION AND CLAIMS MAP



## INTRODUCTION

On July 5, 1983 Western Geophysical Aero Data Ltd. conducted approximately 80 kilometres of airborne magnetometer and VLF-electromagnetometer survey across the ACE claim group on behalf of Ryan Energy Corp.

Previous soil sampling and geological evaluations of this area detected anomalous areas of copper, zinc, lead, silver, cobalt and magnetite mineralization. The intent of this survey was to determine whether the mineralization could be detected by magnetic or electromagnetic methods and if possible, map extensions to existing mineralized zones and detected new areas of interest.

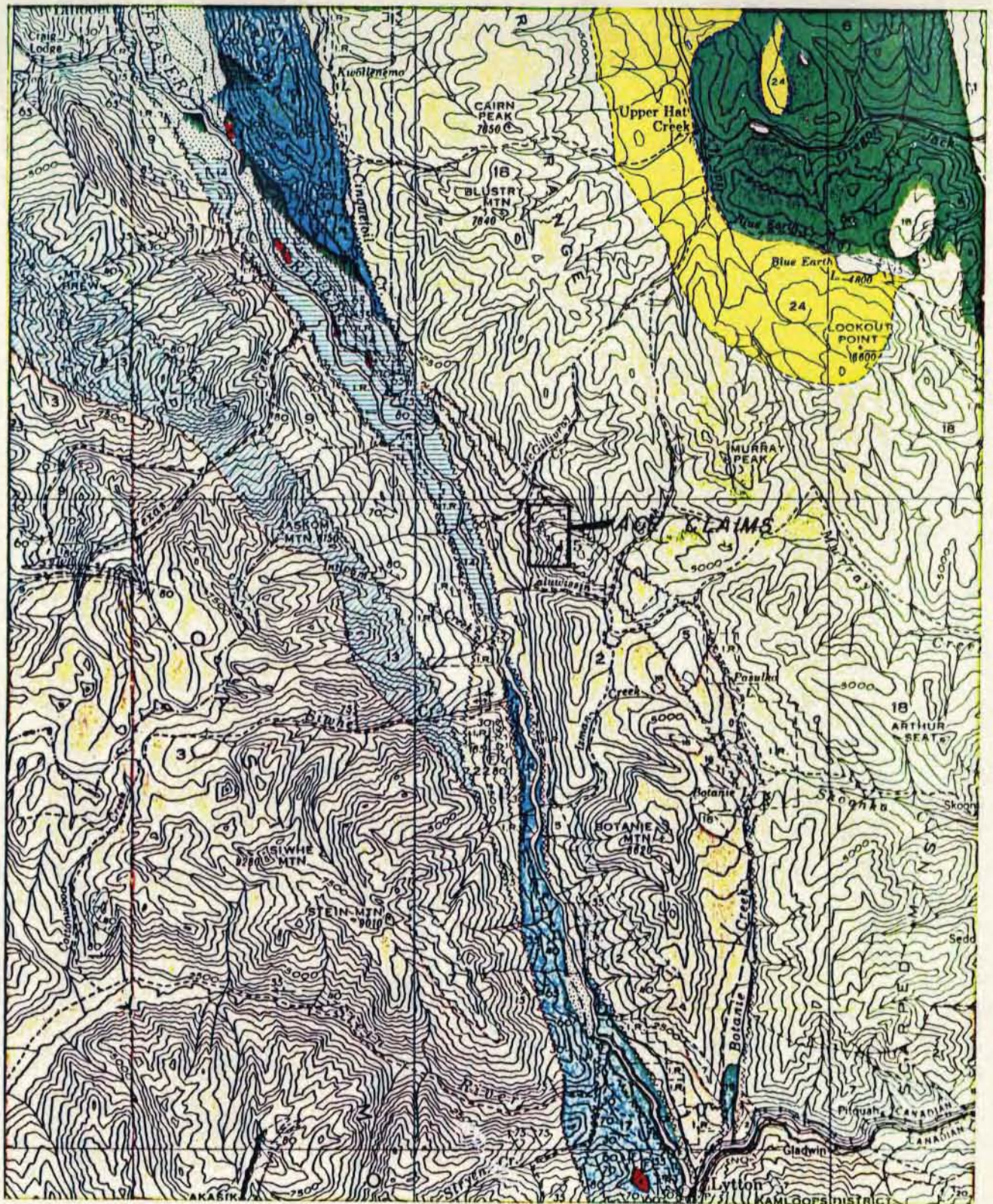
## PROPERTY

The property surveyed is comprised of 8 contiguous mineral claims listed below and illustrated on Figure 1.

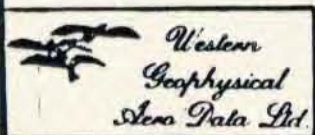
<u>Claim Name</u>	<u>Record #</u>	<u>Expiry Date</u>
ACE 1-8	2812-2819	July 11, 1983

## LOCATION AND ACCESS

The property is located approximately 20 miles north of Lytton, B.C., immediately south of McGillivray Creek and east of the Fraser River. The claims lie along the west side of the Clear Range, which forms a series of steep mountain slopes draining westward into the Fraser River. Elevations on the property range from 1500 feet to 5000 feet. Approximate geographical co-ordinates are latitude  $50^{\circ}30'N$  and longitude  $121^{\circ}34'W$ . The claims lie within the Kamloops Mining Division and NTS 92I/5E and 92I/12E.



GENERAL GEOLOGY



B.C. Highway #12 passes within 1 kilometre of the claim group. A secondary gravel road extends eastward from Highway 12 and follows McGillivray Creek to the area immediately northwest of the claim group. Access on to the property is provided via a 4x4 passable road which extends south from McGillivray Creek to a mineralization deposit on the north slope of a mountain ridge.

### GEOLOGY

The following excerpt is taken from a report by D.C. Malcolm, P.Eng. dated March 14, 1980. The report was written for Acacia Mineral Development Corporation Ltd. on their MAC Claim group. These claims have since been forfeited and a portion of them re-staked as the ACE Claims. The report describes in detail the geology of the claims area.

#### "GENERAL GEOLOGY

The area is on the east side of the Fraser River in a fault block or graben that lies east and parallel with the Coast Range Mountains.

The block is underlain by Permian, Triassic, Jurassic and Cretaceous sediments and Tertiary crystalline rocks. It is bounded by major faults along the Fraser River valley and by faults which extend from the British Columbia-Washington State boundary through Princeton, Merritt, to the Chilcotin.

The fault block is intensely faulted and altered over large areas which often contain large copper mines and prospects.

#### CLAIM GEOLOGY

The rocks on the claims are extensively brecciated sediments and volcanics (andesite, cherty tuffs, limestone breccias). They are intruded near the mouth of McGillivray Creek by diorites of the Mount Lytton batholyth and to the east at the headwaters of the creek by quartz diorite.



Feldspar porphyry dikes intrude brecciated andesites and limestone breccias. The dikes and adjacent intruded rocks contain disseminated chalcopyrite, magnetite and bornite. Andesites, further from the dikes, contain massive and disseminated pyrite. Large areas of these pyritized rocks form limonite surface gossans.

#### DEPOSITS

The main deposits occur at the summit of a ridge and along its flanks between elevations 4,500 and 5,000 feet. On the north side of the ridge a number of small hand trenches expose sheared and brecciated feldspar porphyry and altered limy volcanics. Five samples over an area 200 feet by 200 feet, averaged 0.42% copper.

A road has been built from McGillivray Creek to the lower part of the deposit on the north slope of the ridge. Trenches have been roughed out partly across the deposit at elevations 4,650 and 4,800 feet.

On the south side of the ridge, 1,500 feet south of these trenches, chalcopyrite occurs with magnetite in old trenches and malachite stained feldspar porphyry forms a slide in a dry gulch. One picked sample assayed 0.37 oz. silver, per ton and 7.16% copper.

On the road, at elevation 3,300 feet, a porphyry dike was exposed. Chalcopyrite bearing limestone breccia float occurs near it.

Pyritic deposits occur over a large area east of the porphyry dikes and extend across the claims. Two outcrops have been sampled and assayed 0.095% and 0.15% copper.

A spring, at elevation 3,600 feet near McGillivray Creek, deposits a white precipitate which showed 1.19% silicon and 84.75% alumina.

In 1973, 1974, and 1975 a number of small trenches were made and the road was extended to the top of the hill."

PREVIOUS WORK

Two phases of exploration activity are known of by the authors, both of which were conducted on behalf of Acacia Mineral Development Corporation Ltd. across the MAC Claim group. A geological evaluation based on personal examinations made in 1971, July 23, 1972 and April 29, 1976 by D.C. Malcolm, P.Eng. is described in a report dated July 14, 1976. A program of grid layout and soil sampling was conducted across these claims in June, 1978. The results of this survey were detailed in a Geochemical Report dated November 28, 1978 by Glen E. White, B.Sc., P.Eng.

No further work on these claims is known of by the authors.





AIRBORNE VLF-ELECTROMAGNETIC AND MAGNETIC SURVEY

This survey system simultaneously monitors and records the output signal from a proton precession magnetometer and two VLF-EM receivers installed in a bird designed to be towed 100 feet below a helicopter. A gimbal and shock mounted TV camera, fixed to the helicopter skid, provides input signal to a video cassette recorder allowing for accurate flight path recovery by correlation between the flight path cassette and air photographs of the survey area. A KING KRA-10A radar altimeter allows the pilot to continually monitor and control terrain clearance along any flight path.

Continuous measurements of the earth's total magnetic field intensity and of the total horizontal VLF-EM field strength of two transmission frequencies are stored in three independent modes: an analogue strip chart recorder, digital magnetic tapes and a digital video recovery system. A three-pen analogue power recorder provides direct, unfiltered recordings of the three geophysical instrument output signals. A Hewlett-Packard 9875 tape drive system digitally records all information as it is processed through an on-board micro-computer. The magnetic and electromagnetic data is also processed through the onboard micro-computer, incorporating an analogue to digital converter and a character generator, then superimposed along with the date, real time and terrain clearance upon the actual flight path video recording to allow exact correlation between geophysical data and ground location. The continuous input magnetic signal is processed at the maximum A/D converter rate, averaged and updated on the video display every second. Correlation between the strip chart, digital tape and the video flight path recovery tape is controlled via fiducial marks common to all systems. Line identification, flight direction and pertinent survey information are recorded on the audio track of the video recording tape.

## DATA PROCESSING

Field data is digitally recorded on magnetic cassettes in a format compatible with the Hewlett-Packard 9845 computer. The flight path locations are digitized, thus the information can be processed as either time series or space point data.

Total field intensity magnetic information is routinely edited for noise spikes and corrected for any diurnal variations recorded on a base magnetometer located in the survey area.

Total field intensity VLF-EM signals are sensitive to topographic changes and receiver oscillation. Oscillation effects can be removed by filters tuned to the dominant period. Long period terrain effects can be removed by subtracting a polynomial fitted base level from the data. The degree of the polynomial can be selected to best represent terrain variations observed in the survey area.

Short period terrain effects often have similar response parameters to target conductive features. An interpretational technique often useful in distinguishing between terrain anomalies and conductor anomalies is to observe the difference between the responses from two transmitter stations. Terrain variations normally affect both data sets to a similar degree and are much reduced on a difference plot. The amplitude of the response due to a conductive body is dependent upon the relationship between the conductors' strike and direction to the transmitter station. In most instances the anomalous responses will vary between frequencies and therefore remain evident on the difference plot.

## DISCUSSION OF RESULTS

Twenty-three survey lines totalling some 80 kilometres were flown to cover the ACE 1-8 claim group and surrounding area. The magnetic data is presented in contour form on Figure 2 of this report. VLF-EM data is included as Figures 3-5.

Aerial photography was used to guide flight path recovery, however, due to the distortion caused by the steep terrain, data has been plotted over a topographic base. The geology illustrated in the report by D.C. Malcolm has also been transferred to the topographic base.

Two northwest-southeast trending magnetic lows are evident across the survey area. One follows a geologically defined fault across the southwest corner of the claims area. The second follows McGillivray Creek. Terrain clearance effects across the valley formed by McGillivray Creek are not influencing the magnetic field intensity in this area and it is likely that another fault is present.

A north-south trending magnetic high correlates with a mountain ridge on the east side of McGillivray Creek. No geological evidence of a lithology change is reported in this area. The magnetic data may be reflecting an unmapped facies change within the volcanic unit; possibly a dioritic phase or simply an increased content of higher magnetic susceptibility materials. A closed magnetic high located on line 20 immediately west of this ridge is likely an outlier of the same rock unit.

A number of other isolated magnetic highs are observed in the data. A 500 gamma high on the east end of lines 3,4 and 5 occurs in an area where chalcopyrite and magnetite mineralization has been reported.



A small and weak magnetic high near the centre of line 15 coincides with a feldspar porphyry dyke. A magnetic increase is observed on the western ends of lines 15 and 16 along McGillivray Creek. Diorites have been mapped in this area and are likely the source of the increased magnetic field intensity readings. Another high associated with McGillivray Creek is observed on the west ends of lines 21, 22 and 23. A strong magnetic high is located on the west ends of lines 6 and 7 within a granodiorite unit.

No distinct magnetic lineaments are observed to correlate with either the porphyry dykes or the limestone unit which are mapped within the claims area.

The VLF-EM data is presented in profile form over the same topographic and geological base map used to illustrate the magnetic contours. The Seattle frequency data (Figure 3) shows a subtle shift in the field intensity which correlates with the G.S.C. defined fault crossing the southwest corner of the survey area. In addition, the northwest-southeast trending belt of limestone is reflected as a slight conductivity increase. This response extends further south than the unit as indicated by D.C. Malcolm. Similar increased conductivity responses are observed along the eastern border of the ACE 7 claim and 500 metres east of the ACE 2 and ACE 4 claims. The higher amplitude VLF-EM responses noted on the east ends of lines 8 -13 and 20 -23 are possibly reflections of increased conductivity but more likely caused by the steep mountain slopes in the area.



Superimposed over these general trends are a number of isolated anomalies which likely reflect discreet, high conductivity bodies. These responses occur primarily on lines 17, 15 and 7 as illustrated on Figures 2,3 and 5. They are evident on the Seattle frequency data which indicates a northerly strike to the causitive units.

#### SUMMARY AND CONCLUSIONS

On July 5, 1983 Western Geophysical Aero Data Ltd. conducted some 80 kilometres of airborne magnetometer and VLF-electromagnetometer survey across the ACE 1 - ACE 8 claims on behalf of Ryan Energy Corporation.

A magnetic low trend and subtle shift in the amplitude of the VLF-EM signal closely follow a G.S.C. defined northwest-southeast trending fault in the southwest corner of the survey grid. A similiar magnetic low follows McGillivray Creek which suggests this drainage system is fault controlled. A band of limestone which crosses the claims area is evident as an amplitude increase in the Seattle frequency VLF-EM data. No anomalous magnetic readings are associated with this horizon. The VLF-EM anomaly is wider than the mapped limestone unit and more likely a result of the pyritization associated with this intrusion than the intrusion itself. Based on the VLF-EM response the pyritized halo extends to the southeast of the limestone horizon indicated on the geology map presented in the report by D.C. Malcolm. Two feldspar porphyry dykes which strike north-south across the property are not evident in either the magnetic or electromagnetic data.

A number of isolated magnetic and conductivity highs are observed in the data which are not explained on the basis of the general geological description provided in this report. Many occur near the trenched areas and may be explained by a review of this information.

#### RECOMMENDATIONS

A good correlation exists between the known geology and the geophysical trends observed from this survey. This indicates that anomalous geophysical responses are resulting from an anomalous geological environment and are likely related to the mineralization observed in the area. A number of small magnetic and electromagnetic anomalies are observed across the claim area which warrant further investigation. These areas are identified as "Areas of Interest" on the magnetic contour map (Figure 2) and listed below.

- i) East end of lines 3-5; Magnetic anomaly in area of reported magnetite and chalcopyrite mineralization.
- ii) Center line 7; Strong VLF-EM anomalies at the southern end of the limestone horizon mapped by D.C. Malcolm.
- iii) Center line 15; A magnetic dipole with the high located 700 meters east of the low and coincident VLF-EM anomalies. Similiar VLF-EM anomalies located 200 metres north.

Further investigation of these areas should consist initially of a comparison between the location of the anomalies and known mineralization from trenching and/or geochemical assays.

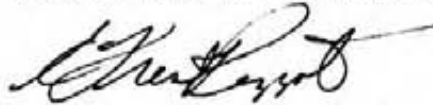


Unexplained geophysical anomalies should then be identified by geological prospecting.

The encouraging coincidence of mineralization and VLF-EM conductivity anomalies strongly supports a volcanogenic massive sulphide model. Due to the steep terrain and widespread pyritization, a deep penetrating time domain electromagnetometer survey is recommended over an induced polarization technique. This survey will detect and delineate any buried source to the surface trends.

In addition to the work recommended above, ground prospecting should also be conducted across those anomalies located on unclaimed land. Depending upon these results, additional claim staking may be required.

Respectfully Submitted



E. Trent Pezzot, B.Sc.  
Geophysicist



Glen E. White, B.Sc., P.Eng.  
Consulting Geophysicist

INSTRUMENT SPECIFICATIONSBARRINGER AIRBORNE MAGNETOMETER

**MODEL:** Nimbin M-123  
**TYPE:** Proton Precession  
**RANGE:** 20,000 to 100,000 gammas  
**ACCURACY:**  $\pm$  1 gamma at 24 V d.c.  
**SENSITIVITY:** 1 gamma throughout range  
**CYCLE RATES:**  
     Continuous 0.6, 0.8, 1.2 and 1.9 seconds  
     Automatic 2 seconds to 99 minutes in 1 second steps  
     Manual Pushbutton single cycling at 1.9 seconds  
     External Actuated by a 2.5 to 12 volt pulse longer than 1 millisecond.

**OUTPUTS:**  
     Analogue 0 to 99 gammas or 0 to 990 gammas  
             - automatic stepping  
     Visual 5 digit numeric display directly in gammas

**EXTERNAL OUTPUTS:**  
     Analogue 2 channels, 0 to 99 gammas or 0 to 990 gammas at 1 m.a. or 1 volt full scale deflection.  
     Digital BCD 1, 2, 4, 8 code, TTL compatible.

**SIZE:** Instrument set in console  
           30 cm X 10 cm X 25 cm

**WEIGHT:** 3.5 Kg

**POWER REQUIREMENTS:** 12 to 30 volts dc, 60 to 200 milliamps maximum.

**DETECTOR:** Noise cancelling torroidal coil installed in airfoil.



INSTRUMENT SPECIFICATIONSSABRE AIRBORNE VLF SYSTEM

Source of Primary Field: VLF radio stations in the frequency range of 14KHz to 30 KHz.

- Type of Measurement: -Horizontal field strength
- Number of Channels: -Two; Seattle, Washington at 24.8 KHz  
-Cutler, Maine at 17.8 KHz
- Type of Sensor: -Two ferrite antennae arrays, one for each channel, mounted in magnetometer bird.
- Output: -0 - 100 mV displayed on two analogue meters ( one for each channel)  
-recorder output posts mounted on rear of instrument panel
- Power Supply: -Eight alkaline 'AA' cells in main instrument case (life 100 hours)  
-Two 9- volt alkaline transistor batteries in bird (life 300 hours)
- Instrument Console: -Dimensions -30 cm x 10 cm x 25 cm  
-Weight - 3.5 Kg.

INSTRUMENT SPECIFICATIONSFLIGHT PATH RECOVERY SYSTEMi) T.V. Camera

Model: RCA TC2055 Vidicon  
Power Supply: 12 volt dc  
Lens: variable, selected on basis of expected terrain clearance  
Mounting: Gimbal and shock mounted to housing  
- housing bolted to helicopter skid

ii) Video Recorder

Model: Sony SLO - 340  
Power Supply: 12 volt dc / 120 volt AC (60Hz)  
Tape: Betamax  $\frac{1}{2}$ " video cassette - optional length  
Dimensions: 30 cm X 13 cm X 35 cm  
Weight: 8.8 Kg  
Audio Input: Microphone in - 60 db low impedance microphone  
Video Input: 1.0 volt P-P, 75 $\Omega$  unbalanced, sync negative from camera

iii) Altimeter

Model: KING KRA-10A Radar Altimeter  
Power Supply: 27.5 volts dc  
Output: 0-25 volt (1 volt /1000 feet) dc signal to analogue meter, 0-10 v (4mv/ft) analogue signal to microprocessor  
Mounting: fixed to T.V. camera housing, attached to helicopter skid

INSTRUMENT SPECIFICATIONSDATA RECORDING SYSTEMi) Chart Recorder

Type: Esterline Angus Miniservo III Bench AC Ammeter -  
Voltmeter Power Recorder

Model: MS 413 B

Specification: S-22719, 3-pen servo recorder

Amplifiers: Three independent isolated DC amplifiers  
(1 per channel) providing range of acceptable input signals

Chart: 10 cm calibrated width 2-fold chart

Chart Drive: Multispeed stepper motor chart drive,  
Type D850, with speeds of 2, 5, 10, 15,  
30 and 60 cm/hr. and cm/min.

Controls: Separate front mounted slide switches for  
power on-off, chart drive on-off, chart  
speed cm/hr - cm/min. Six position chart  
speed selector. Individual front zero  
controls for each channel.

Power Requirements: 115/230 volts AC at 50/60 Hz  
(Approximately 30 VA)

Writing System: Disposable fibre tipped ink cartridge  
(variable colors)

Dimensions: 38.6 cm X 16.5 cm X 43.2 cm

Weight: 9.3 Kg

ii) Digital Video Recording System

Type: L.M. Microcontrols Ltd. Microprocessor Control  
Data Acquisition System

Model: DADG - 68

Power Requirements: 10-14 volts dc, Maximum 2 amps

Input Signal: 3, 0-100 mvolt dc signals  
1, 0-25 volt dc signal

Microprocessor: Motorola MC-6800

CRT Controller: Motorola MC-6845

Character Generator: Motorola MCM-6670

Analogue/Digital Converter: Intersil 7109

Multiplexer: Intersil IH 6208

Digital Clock: National MM 5318 chip  
9 volt internal rechargeable nickle-  
cadmium battery

Fiducial Generator: Internally variable time set controls  
relay contact and audio output

Dimensions: 30 cm X 30 cm X 13 cm

Weight: 3 Kg

DATA RECORDING SYSTEM (CON'T)iii) Digital Magnetic Tape

Type: Hewlett Packard cartridge tape unit

Model: 9875A

Power Requirements: 24 volt d.c.

Data Format: HP's Standard Interchange Format (SIF)

Tape Cartridge: HP 98200A 225K byte cartridge compatible with HP Series 9800 desktop computers.

Tape Drive: Dual tape drives providing up to 8 hours continual recording time.

Controller: Internal micro-computer provides 23 built in commands.

: External computer generated commands.

COST BREAKDOWN

<u>Personnel</u>	<u>Rates</u>		<u>Production</u>		<u>Subtotal</u>
	<u>Field</u>	<u>Office</u>	<u>Field</u>	<u>Office</u>	
E.Trent Pezzot; Geophysicist	450/day	260.	July 5 (1 day)		450.00
				June 27- July 11 (6 days)	1,560.00
M. McDermott: Navigator	250/day	150.	July 5 (1 day)		250.00
				June 30- July 7 (5 days)	750.00
				Sub total	\$3,010.00
Helicopter .....					1,745.00
Vehicle .....					120.00
Equipment Lease .....					900.00
Meals & Accommodations .....					50.00
Materials .....					135.00
Photographics .....					16.00
Maps .....					7.00
Computer, Processing and Plotting .....					780.00
Drafting .....					550.00
Reproduction .....					122.00
Interpretation and Report .....					1,100.00
Delivery, Courier .....					65.00
				Total	\$8,600.00



STATEMENT OF QUALIFICATIONS

NAME: PEZZOT, E. Trent

PROFESSION: Geophysicist - Geologist

EDUCATION: University of British Columbia -  
B.Sc. - Honors Geophysics and Geology

PROFESSIONAL  
ASSOCIATIONS: Society of Exploration Geophysicist

EXPERIENCE: Three years undergraduate work in  
geology - Geological Survey of Canada,  
consultants.

Three years Petroleum Geophysicist,  
Senior Grade, Amoco Canada Petroleum  
Co. Ltd.

Two years consulting geophysicist,  
Consulting geologist - B.C., Alberta,  
Saskatchewan, N.W.T., Yukon, western  
U.S.A.

Three years geophysicist with Glen E.  
White Geophysical Consulting & Services  
Ltd.

STATEMENT OF QUALIFICATIONS

**NAME:** WHITE, Glen E., P. Eng.

**PROFESSION:** Geophysicist

**EDUCATION:** B.Sc. Geophysicist - Geology  
University of British Columbia.

**PROFESSIONAL ASSOCIATIONS:** Registered Professional Engineer,  
Province of British Columbia.

Associate member of Society of Exploration Geophysicists.

Past President of B.C. Society of Mining Geophysicists.

**EXPERIENCE:** Pre-Graduate experience in Geology -  
Geochemistry - Geophysics with Anaconda  
American Brass.

Two years Mining Geophysicist with Sulmac  
Exploration Ltd. and Airborne Geophysics  
with Spartan Air Services Ltd.

One year Mining Geophysicist and Technical  
Sales Manager in the Pacific north-west for  
W.P. McGill and Associates.

Two years Mining Geophysicist and supervisor  
Airborne and Ground Geophysical Divisions  
with Geo-X Surveys Ltd.

Two years Chief Geophysicist Tri-Con Explor-  
ation Surveys Ltd.

Eleven years Consulting Geophysicist.

Active experience in all Geologic provinces  
of Canada.



APPENDIX

Data Listing





TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
LINE: RE1	flown WEST on 83/07/05				14:24:32	58066	24	42	83
14:23:33	58383	45	55	114	14:24:33	58066	23	39	101
14:23:34	58383	52	54	117	14:24:34	58248	19	40	76
14:23:35	58383	53	65	148	14:24:35	58430	22	30	77
14:23:36	58383	78	70	123	14:24:36	58430	21	46	81
14:23:37	58383	84	86	124	14:24:37	58426	18	38	113
14:23:38	58383	92	89	120	14:24:38	58426	21	40	78
14:23:39	58383	89	79	142	14:24:39	58426	21	40	80
14:23:40	58383	102	96	145	14:24:40	58426	21	40	119
14:23:41	58383	95	88	130	14:24:41	58426	18	35	114
14:23:42	58383	60	86	120	14:24:42	58426	19	39	76
14:23:43	58383	86	79	124	14:24:43	58426	17	28	76
14:23:44	58383	87	76	153	14:24:44	58426	18	36	92
14:23:45	58383	52	51	156	14:24:45	58426	19	33	81
14:23:46	58383	42	43	134	14:24:46	58218	21	35	116
14:23:47	58383	46	46	133	14:24:47	58010	19	30	84
14:23:48	58383	46	47	139	14:24:48	57922	20	37	100
14:23:49	58383	45	49	142	14:24:49	57922	21	32	85
14:23:50	58383	32	45	131	14:24:50	57966	19	34	115
14:23:51	58322	24	44	130	14:24:51	57966	19	31	102
14:23:52	58262	28	52	130	14:24:52	57907	20	29	111
14:23:53	58262	29	51	159	14:24:53	57849	20	29	77
14:23:54	58292	29	51	156	14:24:54	57907	18	22	81
14:23:55	58292	27	54	124	14:24:55	57907	18	28	114
14:23:56	58195	32	50	123	14:24:56	57907	16	26	115
14:23:57	58099	37	55	123	14:24:57	57907	18	34	116
14:23:58	58099	42	55	123	14:24:58	58016	20	29	112
14:23:59	58056	41	59	153	14:24:59	58126	21	28	80
14:24: 0	58077	28	55	111	14:25: 0	58126	21	31	108
14:24: 1	58077	26	46	112	14:25: 1	58124	19	26	108
14:24: 2	58017	31	45	125	14:25: 2	58124	21	28	71
14:24: 3	57958	33	48	138	14:25: 3	58125	20	28	69
14:24: 4	57958	31	47	135	14:25: 4	58125	19	26	81
14:24: 5	57987	32	48	108	14:25: 5	58125	18	28	108
14:24: 6	57987	31	44	107	14:25: 6	58125	19	30	75
14:24: 7	57987	31	48	141	14:25: 7	58125	19	27	75
14:24: 8	57987	30	40	139	14:25: 8	58125	19	31	82
14:24: 9	57987	32	47	135	14:25: 9	58125	15	28	80
14:24:10	57987	32	54	134	14:25:10	58125	16	30	115
14:24:11	57965	28	49	139	14:25:11	58125	16	28	119
14:24:12	57943	30	46	117	14:25:12	58125	15	25	87
14:24:13	57965	30	52	108	14:25:13	58247	15	23	86
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14:24:25	57965	26	43	103	14:25:25	58254	13	27	131
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14:24:27	58066	23	45	123	14:25:27	58254	13	25	108
14:24:28	58168	24	37	123	14:25:28	58254	12	22	108
14:24:29	58066	25	42	117	14:25:29	58254	16	26	130
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14:25:35	57982	15	31	94	14:18:35	57990	36	45	93
14:25:36	57982	13	30	94	14:18:36	57963	27	36	131
14:25:37	57986	15	30	128	14:18:37	57963	22	32	130
14:25:38	59340	14	27	130	14:18:38	57976	12	28	88
14:25:39	60017	13	26	94	14:18:39	57976	2	21	86
14:25:40	60694	13	27	92	14:18:40	57976	3	9	93
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14:25:42	58606	15	30	129	14:18:42	57932	1	14	138
14:25:43	57911	12	37	128	14:18:43	57868	5	19	100
14:25:44	57903	15	28	96	14:18:44	57911	6	19	91
14:25:45	57912	10	22	92	14:18:45	57887	29	33	133
14:25:46	57912	10	27	99	14:18:46	57863	57	54	128
14:25:47	59169	8	24	125	14:18:47	57863	59	54	95
14:25:48	59797	10	21	124	14:18:48	57863	46	44	102
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14:25:50	58885	14	27	95	14:18:50	57764	37	40	136
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14:25:52	57993	14	25	129	14:18:52	57763	35	40	101
14:25:53	58439	10	28	133	14:18:53	57763	34	42	105
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14:25:58	58439	12	25	120	14:18:58	57807	36	35	137
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14:26:23	57630	12	27	123	14:19:23	57527	32	24	152
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14:26:25	57630	8	26	134	14:19:25	57567	34	27	121
14:26:26	57630	16	21	145	14:19:26	57567	32	30	113
14:26:27	57630	6	23	144	14:19:27	57567	31	27	150
14:26:28	0	0	0	0	14:19:28	57567	31	24	146
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14:19:35	57722	32	28	94	14:20:35	57532	4	35	137
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14:19:37	57809	27	23	134	14:20:37	0	0	0	0
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14:19:40	58028	26	23	97	14:13:46	58382	6	29	119
14:19:41	58028	26	24	99	14:13:47	58382	16	31	121
14:19:42	58173	25	22	118	14:13:48	58382	26	60	119
14:19:43	58204	26	26	127	14:13:49	58382	31	59	82
14:19:44	58204	27	26	134	14:13:50	58382	33	41	93
14:19:45	58204	27	24	106	14:13:51	58382	45	47	92
14:19:46	58220	23	25	104	14:13:52	58382	52	44	83
14:19:47	58193	27	21	137	14:13:53	58382	34	45	83
14:19:48	58193	25	24	104	14:13:54	58382	29	33	101
14:19:49	58088	25	23	104	14:13:55	58337	21	33	128
14:19:50	57993	25	21	109	14:13:56	58337	34	40	128
14:19:51	57993	26	23	148	14:13:57	58260	48	46	129
14:19:52	57892	25	27	149	14:13:58	58364	36	44	88
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14:19:55	57635	26	28	134	14:14: 1	57786	12	39	87
14:19:56	57635	27	28	164	14:14: 2	58285	32	46	96
14:19:57	57605	26	27	161	14:14: 3	58352	43	61	92
14:19:58	57605	25	27	165	14:14: 4	58352	53	57	94
14:19:59	57605	26	24	143	14:14: 5	58347	52	42	131
14:20: 0	57516	27	28	171	14:14: 6	58347	44	40	125
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14:20: 3	57530	24	26	126	14:14: 9	58164	45	45	129
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14:20:16	57478	17	26	114	14:14:22	57804	31	35	88
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14:14:42	57710	32	33	80	14:15:42	57361	27	19	102
14:14:43	57722	30	33	82	14:15:43	57379	26	19	100
14:14:44	57722	33	29	123	14:15:44	57379	28	24	144
14:14:45	57732	31	27	122	14:15:45	57293	26	25	133
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14:14:48	57832	31	28	116	14:15:48	57145	22	23	146
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14:14:53	57891	29	24	117	14:15:53	57271	20	20	113
14:14:54	57891	28	23	120	14:15:54	57271	18	19	156
14:14:55	57899	29	22	76	14:15:55	57271	20	30	150
14:14:56	57901	23	24	76	14:15:56	57366	20	28	117
14:14:57	57901	24	24	122	14:15:57	57420	18	25	116
14:14:58	57793	25	25	124	14:15:58	57474	23	27	155
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14:15:20	57113	26	19	85	14:16:20	57565	16	27	144
14:15:21	57113	27	20	124	14:16:21	57547	14	27	125
14:15:22	57071	29	22	125	14:16:22	57530	13	27	163
14:15:23	57071	27	19	86	14:16:23	0	0	0	0
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14:15:35	57212	28	22	133	14:10:10	58573	34	42	120
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14:10:16	58104	37	35	88	14:11:16	57215	23	19	105
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14:10:19	57849	34	32	130	14:11:19	57187	21	17	140
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14:10:28	57606	27	24	101	14:11:28	57358	16	22	113
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14:10:34	57692	26	23	106	14:11:34	57500	10	25	121
14:10:35	57684	26	21	107	14:11:35	57643	10	23	91
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14:11: 9	57306	24	16	151	14: 5:46	58833	34	36	70
14:11:10	57355	24	20	138	14: 5:47	58833	39	41	72
14:11:11	57405	22	18	143	14: 5:48	58761	29	53	121
14:11:12	57355	22	12	106	14: 5:49	58761	39	41	118

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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14: 5:51	58419	43	37	87	14: 6:51	57590	19	14	154
14: 5:52	58419	37	34	121	14: 6:52	57721	20	9	157
14: 5:53	58486	34	34	80	14: 6:53	57721	19	14	178
14: 5:54	58486	33	33	110	14: 6:54	57630	22	21	174
14: 5:55	57794	32	38	76	14: 6:55	57630	23	25	148
14: 5:56	57103	29	33	72	14: 6:56	57639	25	27	143
14: 5:57	57103	31	39	118	14: 6:57	57648	23	25	125
14: 5:58	57700	36	39	124	14: 6:58	57648	19	21	117
14: 5:59	57700	29	37	88	14: 6:59	57645	20	24	137
14: 6: 0	57700	35	33	109	14: 7: 0	57645	19	24	125
14: 6: 1	57556	33	31	89	14: 7: 1	57605	20	19	105
14: 6: 2	57556	31	31	87	14: 7: 2	57569	22	20	109
14: 6: 3	57556	25	22	84	14: 7: 3	57569	21	19	119
14: 6: 4	57560	30	23	90	14: 7: 4	57537	21	21	153
14: 6: 5	57569	30	27	124	14: 7: 5	57537	20	22	161
14: 6: 6	57569	27	27	113	14: 7: 6	57478	21	24	137
14: 6: 7	57532	26	28	93	14: 7: 7	57419	26	23	168
14: 6: 8	57532	28	29	116	14: 7: 8	57419	19	23	163
14: 6: 9	57547	34	30	85	14: 7: 9	57448	18	23	150
14: 6:10	57562	30	27	84	14: 7:10	57448	17	21	172
14: 6:11	57562	28	24	80	14: 7:11	57383	19	25	149
14: 6:12	57569	24	24	122	14: 7:12	57318	18	27	171
14: 6:13	57569	28	21	80	14: 7:13	57327	17	20	168
14: 6:14	57569	29	28	86	14: 7:14	57327	19	18	137
14: 6:15	57594	25	23	85	14: 7:15	57348	18	22	134
14: 6:16	57594	28	16	127	14: 7:16	57344	19	23	128
14: 6:17	57623	28	19	114	14: 7:17	57344	19	24	151
14: 6:18	57642	27	21	91	14: 7:18	57344	18	22	148
14: 6:19	57690	25	20	95	14: 7:19	57344	18	23	150
14: 6:20	57690	25	24	97	14: 7:20	57362	20	24	121
14: 6:21	57746	24	21	116	14: 7:21	57362	15	25	152
14: 6:22	57746	24	23	95	14: 7:22	57385	15	22	152
14: 6:23	57821	25	23	97	14: 7:23	57385	17	23	141
14: 6:24	57821	26	25	96	14: 7:24	57385	18	23	131
14: 6:25	57800	26	20	135	14: 7:25	57446	16	22	131
14: 6:26	57800	26	19	128	14: 7:26	57503	20	24	158
14: 6:27	57800	27	19	128	14: 7:27	57503	17	25	147
14: 6:28	57722	28	20	105	14: 7:28	57532	19	33	130
14: 6:29	57699	28	27	106	14: 7:29	57562	19	24	133
14: 6:30	57677	25	25	105	14: 7:30	57562	17	26	130
14: 6:31	57677	27	22	140	14: 7:31	57562	16	25	163
14: 6:32	57647	25	22	138	14: 7:32	57654	15	21	159
14: 6:33	57647	25	28	107	14: 7:33	57747	15	23	163
14: 6:34	57662	22	22	126	14: 7:34	57747	13	27	148
14: 6:35	57622	27	22	160	14: 7:35	57747	13	27	150
14: 6:36	57583	25	18	162	14: 7:36	57730	14	29	178
14: 6:37	57583	26	18	146	14: 7:37	57730	12	24	175
14: 6:38	57583	27	21	151	14: 7:38	0	0	0	0
14: 6:39	57621	27	14	176	LINE: RE6	flown WEST	on 83/07/05		
14: 6:40	57621	24	17	169	14: 0:28	57962	33	28	101
14: 6:41	57668	27	15	146	14: 0:29	57962	35	31	106
14: 6:42	57682	23	21	137	14: 0:30	57962	60	51	122
14: 6:43	57676	23	22	132	14: 0:31	58063	56	61	115
14: 6:44	57676	25	20	160	14: 0:32	58063	45	46	138
14: 6:45	57683	23	20	162	14: 0:33	58063	34	45	102
14: 6:46	57683	25	19	146	14: 0:34	58162	38	45	130
14: 6:47	57668	23	20	148	14: 0:35	58162	38	46	122
14: 6:48	57611	24	16	180	14: 0:36	58162	34	48	131
14: 6:49	57611	22	15	169	14: 0:37	58131	33	42	91

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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14: 0:39	58091	40	32	131	14: 1:39	57693	25	22	122
14: 0:40	58036	43	39	127	14: 1:40	57667	25	26	148
14: 0:41	58036	46	43	86	14: 1:41	57667	25	24	138
14: 0:42	58033	60	50	82	14: 1:42	57687	25	26	105
14: 0:43	58033	65	44	122	14: 1:43	57687	24	33	107
14: 0:44	57993	60	50	106	14: 1:44	57687	24	32	102
14: 0:45	57993	60	47	88	14: 1:45	57657	23	31	94
14: 0:46	57969	63	58	122	14: 1:46	57657	24	33	128
14: 0:47	57959	55	50	79	14: 1:47	57642	26	36	128
14: 0:48	57959	62	44	76	14: 1:48	57619	22	29	136
14: 0:49	57964	47	34	118	14: 1:49	57619	24	30	101
14: 0:50	57960	56	30	74	14: 1:50	57584	22	30	103
14: 0:51	57956	52	33	118	14: 1:51	57584	21	26	138
14: 0:52	57940	41	41	83	14: 1:52	57575	22	25	104
14: 0:53	57940	54	39	156	14: 1:53	57574	21	27	107
14: 0:54	57918	52	33	121	14: 1:54	57574	21	27	142
14: 0:55	57905	44	38	84	14: 1:55	57530	19	28	124
14: 0:56	57927	53	39	82	14: 1:56	57530	20	35	142
14: 0:57	57927	50	38	127	14: 1:57	57497	21	33	113
14: 0:58	57939	49	42	124	14: 1:58	57470	19	32	121
14: 0:59	57939	48	36	113	14: 1:59	57457	16	32	155
14: 1: 0	57957	43	35	129	14: 2: 0	57477	18	30	160
14: 1: 1	57946	40	37	103	14: 2: 1	57477	17	29	160
14: 1: 2	57946	34	35	101	14: 2: 2	57477	18	28	159
14: 1: 3	57951	33	30	131	14: 2: 3	57612	19	30	156
14: 1: 4	57966	35	24	132	14: 2: 4	57748	18	28	136
14: 1: 5	57981	34	23	128	14: 2: 5	57748	18	30	137
14: 1: 6	58044	30	23	92	14: 2: 6	57748	17	36	153
14: 1: 7	58044	27	27	88	14: 2: 7	57748	18	35	135
14: 1: 8	57997	27	34	126	14: 2: 8	57894	17	33	155
14: 1: 9	57997	34	38	84	14: 2: 9	58040	16	33	141
14: 1:10	57951	36	34	86	14: 2:10	57894	17	36	142
14: 1:11	57951	37	40	83	14: 2:11	57894	17	33	170
14: 1:12	57935	34	38	85	14: 2:12	57894	16	27	165
14: 1:13	57935	30	30	102	14: 2:13	57894	14	29	145
14: 1:14	57916	27	26	126	14: 2:14	58057	14	29	145
14: 1:15	57891	28	26	94	14: 2:15	58221	14	28	142
14: 1:16	57891	28	26	92	14: 2:16	58057	0	14	0
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14: 1:18	57902	28	29	138	14: 2:18	58139	0	16	0
14: 1:19	57884	26	32	104	14: 2:19	58221	15	33	146
14: 1:20	57854	29	35	107	14: 2:20	58139	19	32	168
14: 1:21	57854	30	34	147	14: 2:21	58139	13	34	149
14: 1:22	57827	27	33	151	14: 2:22	58139	13	34	144
14: 1:23	57827	26	36	118	14: 2:23	58139	13	22	145
14: 1:24	57827	25	29	126	14: 2:24	58139	13	33	163
14: 1:25	57827	25	29	127	14: 2:25	58139	18	33	165
14: 1:26	57813	25	33	129	14: 2:26	58074	12	28	149
14: 1:27	57806	25	30	152	14: 2:27	58009	16	30	152
14: 1:28	57806	26	27	151	14: 2:28	58009	11	30	171
14: 1:29	57808	26	29	111	14: 2:29	58041	11	27	181
14: 1:30	57776	26	29	107	14: 2:30	58041	14	24	166
14: 1:31	57768	25	32	141	14: 2:31	58041	5	23	193
14: 1:32	57768	24	26	129	14: 2:32	58041	2	18	184
14: 1:33	57733	23	29	139	14: 2:33	58041	7	24	201
14: 1:34	57713	23	30	148	14: 2:34	58041	1	27	203
14: 1:35	57693	23	31	133	14: 2:35	0	0	0	0
14: 1:36	57693	21	23	149	LINE: RE7	flown EAST	on 83/07/05		
14: 1:37	57693	24	29	139	13:57:33	57690	2	26	270

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:57:36	57690	1	20	215	13:58:36	57521	13	6	118
13:57:37	57690	1	20	215	13:58:37	57521	22	6	151
13:57:38	57690	1	12	221	13:58:38	57497	26	2	117
13:57:39	57690	1	14	225	13:58:39	57487	16	5	122
13:57:40	57690	1	12	200	13:58:40	57487	2	11	125
13:57:41	57690	1	14	194	13:58:41	57485	3	14	156
13:57:42	57690	11	13	185	13:58:42	57485	0	18	150
13:57:43	57690	8	14	142	13:58:43	57480	7	13	116
13:57:44	57690	6	17	179	13:58:44	57493	6	16	143
13:57:45	57690	3	18	171	13:58:45	57493	1	11	141
13:57:46	57690	1	16	142	13:58:46	57512	7	4	141
13:57:47	57690	2	12	135	13:58:47	57512	9	6	146
13:57:48	57690	0	18	135	13:58:48	57545	4	9	109
13:57:49	57690	1	17	158	13:58:49	57545	9	9	110
13:57:50	57690	2	15	119	13:58:50	57587	5	13	111
13:57:51	57705	11	15	110	13:58:51	57587	1	16	114
13:57:52	57720	12	14	101	13:58:52	57603	8	7	114
13:57:53	57720	9	19	133	13:58:53	57609	6	12	110
13:57:54	57720	5	11	125	13:58:54	57616	20	10	124
13:57:55	57720	13	6	93	13:58:55	57639	31	3	108
13:57:56	57720	10	13	106	13:58:56	57639	22	4	103
13:57:57	57840	5	17	138	13:58:57	57639	24	13	103
13:57:58	57960	2	14	101	13:58:58	57639	28	8	109
13:57:59	57897	2	16	94	13:58:59	57657	20	13	103
13:58:00	57897	2	14	94	13:59:00	57657	12	9	134
13:58:01	57897	9	12	107	13:59:01	57671	16	11	131
13:58:02	57897	13	10	107	13:59:02	57686	19	10	95
13:58:03	57954	12	13	135	13:59:03	57686	7	10	102
13:58:04	58011	9	10	136	13:59:04	57689	19	1	139
13:58:05	57954	9	11	101	13:59:05	57689	28	1	140
13:58:06	58050	22	9	107	13:59:06	57704	12	5	110
13:58:07	58147	11	12	136	13:59:07	57704	0	9	110
13:58:08	58200	2	10	139	13:59:08	57751	7	10	107
13:58:09	58200	2	21	127	13:59:09	57751	20	11	137
13:58:10	58226	1	18	101	13:59:10	57665	26	10	139
13:58:11	58253	5	8	100	13:59:11	57665	19	11	98
13:58:12	58370	18	13	142	13:59:12	57665	16	9	96
13:58:13	58370	17	13	141	13:59:13	57815	12	7	149
13:58:14	58148	16	11	104	13:59:14	57815	14	10	145
13:58:15	58406	16	11	109	13:59:15	57809	32	12	108
13:58:16	58406	17	8	142	13:59:16	57809	39	24	106
13:58:17	58277	10	9	114	13:59:17	57809	21	2	103
13:58:18	58331	12	10	133	13:59:18	57809	41	10	135
13:58:19	58386	2	16	135	13:59:19	57871	38	11	128
13:58:20	58386	1	19	108	13:59:20	57871	59	21	83
13:58:21	58310	1	20	113	13:59:21	57905	67	25	83
13:58:22	58310	8	13	140	13:59:22	57921	55	21	81
13:58:23	58220	9	8	142	13:59:23	57921	49	11	121
13:58:24	58162	8	10	119	13:59:24	57936	41	9	88
13:58:25	58162	10	11	114	13:59:25	57938	29	10	81
13:58:26	58101	16	9	114	13:59:26	57932	42	21	80
13:58:27	58101	17	3	147	13:59:27	57932	28	3	82
13:58:28	57977	4	9	147	13:59:28	57929	14	4	125
13:58:29	57843	2	15	113	13:59:29	57929	16	13	87
13:58:30	57843	3	14	117	13:59:30	57947	18	16	85
13:58:31	57910	0	18	150	13:59:31	57979	45	26	85
13:58:32	57772	2	14	130	13:59:32	57979	42	16	128
13:58:33	57635	5	8	153	13:59:33	58001	61	34	125



TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:59:36	58006	65	5	89	13:54:11	57346	33	49	125
13:59:37	57959	25	17	84	13:54:12	57329	23	49	86
13:59:38	57959	35	26	123	13:54:13	57262	30	46	88
13:59:39	57947	8	17	118	13:54:14	57262	29	47	128
13:59:40	57953	5	20	84	13:54:15	57173	28	44	125
13:59:41	57965	3	21	85	13:54:16	57173	27	35	130
13:59:42	57977	29	30	124	13:54:17	57173	24	42	99
13:59:43	57977	35	39	112	13:54:18	57073	26	40	103
13:59:44	57977	18	25	135	13:54:19	57073	26	37	113
13:59:45	57986	23	16	101	13:54:20	57080	24	38	148
13:59:46	58019	33	23	103	13:54:21	57080	23	41	131
13:59:47	57949	26	25	136	13:54:22	57105	27	43	131
13:59:48	57949	30	29	106	13:54:23	57105	35	47	102
13:59:49	58073	30	26	122	13:54:24	57221	37	48	97
13:59:50	58011	30	29	100	13:54:25	57221	24	37	131
13:59:51	58075	29	32	98	13:54:26	57247	26	35	130
13:59:52	58139	34	38	134	13:54:27	57247	29	35	97
13:59:53	58139	34	35	103	13:54:28	57357	31	37	135
13:59:54	58139	32	30	91	13:54:29	57357	31	39	119
13:59:55	58139	30	28	84	13:54:30	57403	35	38	139
13:59:56	57821	25	29	111	13:54:31	57403	46	47	97
13:59:57	57804	24	28	122	13:54:32	57469	36	41	100
13:59:58	57804	25	24	125	13:54:33	57466	36	40	101
13:59:59	57797	31	27	92	13:54:34	57481	36	41	138
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14: 0: 1	57774	30	33	149	13:54:36	57535	38	39	130
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14: 0: 3	57744	31	31	131	13:54:38	57628	53	39	131
14: 0: 4	57759	32	21	133	13:54:39	57628	41	37	126
14: 0: 5	57671	41	15	156	13:54:40	57676	36	36	88
14: 0: 6	57583	45	15	147	13:54:41	57676	35	38	122
14: 0: 7	57583	33	18	106	13:54:42	57676	38	41	91
14: 0: 8	57580	21	26	102	13:54:43	57689	44	46	95
14: 0: 9	57580	47	32	96	13:54:44	57689	48	46	129
14: 0:10	57588	82	38	131	13:54:45	57730	36	43	95
14: 0:11	57588	101	40	126	13:54:46	57694	35	44	110
14: 0:12	0	0	0	0	13:54:47	57694	34	41	98
LINE: RE@	flown WEST	on 83/07/05			13:54:48	57606	37	32	142
13:53:49	57445	8	30	113	13:54:49	57606	34	27	143
13:53:50	57445	11	32	109	13:54:50	57606	32	35	111
13:53:51	57445	11	37	136	13:54:51	57528	31	29	105
13:53:52	57445	10	27	137	13:54:52	57185	29	30	147
13:53:53	57498	4	35	92	13:54:53	57185	25	36	145
13:53:54	57552	5	21	84	13:54:54	57386	18	30	151
13:53:55	57552	13	47	81	13:54:55	57386	14	30	114
13:53:56	57623	17	47	120	13:54:56	57604	9	37	108
13:53:57	57623	17	50	104	13:54:57	57604	18	32	113
13:53:58	57698	22	43	124	13:54:58	57433	32	35	148
13:53:59	57660	34	54	82	13:54:59	57433	28	32	138
13:54: 0	57660	45	53	84	13:55: 0	57432	22	31	142
13:54: 1	57660	49	70	120	13:55: 1	57354	25	32	119
13:54: 2	57662	51	58	120	13:55: 2	57354	25	30	148
13:54: 3	57664	48	57	76	13:55: 3	57337	22	34	147
13:54: 4	57525	49	56	76	13:55: 4	57337	22	37	105
13:54: 5	57525	44	51	81	13:55: 5	57345	23	34	106
13:54: 6	57446	42	50	124	13:55: 6	57345	22	36	100
13:54: 7	57446	37	49	120	13:55: 7	57419	20	30	93
13:54: 8	57395	37	52	79	13:55: 8	57494	23	32	128

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:55:11	57607	25	37	88	13:56:11	57893	31	42	125
13:55:12	57607	25	38	132	13:56:12	57893	27	54	85
13:55:13	57133	27	36	129	13:56:13	57862	26	49	83
13:55:14	57475	31	42	92	13:56:14	57877	30	42	123
13:55:15	57817	47	54	102	13:56:15	57861	29	38	124
13:55:16	57908	33	40	113	13:56:16	57846	29	31	84
13:55:17	57908	24	35	100	13:56:17	57778	27	38	87
13:55:18	58077	22	31	130	13:56:18	57711	26	35	100
13:55:19	58077	26	30	91	13:56:19	57711	33	52	103
13:55:20	58077	28	31	96	13:56:20	57711	30	43	86
13:55:21	58077	28	36	92	13:56:21	57619	24	38	92
13:55:22	58094	33	47	129	13:56:22	57594	21	48	97
13:55:23	58094	41	46	130	13:56:23	57594	19	29	119
13:55:24	58099	54	57	90	13:56:24	57585	20	41	127
13:55:25	58099	81	78	130	13:56:25	57585	20	31	135
13:55:26	58099	69	74	119	13:56:26	57600	22	35	109
13:55:27	58099	47	52	127	13:56:27	57602	20	42	109
13:55:28	58103	55	59	82	13:56:28	57582	22	36	138
13:55:29	58117	73	60	82	13:56:29	57582	21	43	132
13:55:30	58117	50	46	85	13:56:30	57556	25	42	98
13:55:31	58068	48	43	128	13:56:31	57541	28	46	95
13:55:32	58057	55	45	79	13:56:32	57541	25	45	136
13:55:33	58057	50	47	83	13:56:33	57551	19	35	108
13:55:34	58057	45	46	82	13:56:34	57551	20	39	125
13:55:35	58057	49	45	64	13:56:35	57565	19	40	89
13:55:36	58003	39	51	113	13:56:36	57573	20	40	87
13:55:37	57950	59	59	129	13:56:37	57573	23	41	127
13:55:38	57950	44	58	132	13:56:38	57563	20	36	113
13:55:39	57950	27	53	95	13:56:39	57543	21	41	113
13:55:40	57915	29	49	128	13:56:40	57526	21	42	124
13:55:41	57915	37	38	130	13:56:41	57526	24	40	92
13:55:42	57913	43	37	91	13:56:42	57513	24	43	93
13:55:43	57912	38	40	93	13:56:43	57508	21	43	133
13:55:44	57912	33	35	91	13:56:44	57517	21	40	101
13:55:45	57912	36	41	128	13:56:45	57517	19	43	98
13:55:46	57876	48	52	155	13:56:46	57511	20	39	105
13:55:47	57876	48	55	88	13:56:47	57506	17	35	104
13:55:48	57859	40	51	88	13:56:48	57506	14	35	98
13:55:49	57867	38	51	134	13:56:49	57509	16	31	96
13:55:50	57880	35	49	121	13:56:50	57512	17	38	95
13:55:51	57893	33	43	115	13:56:51	57512	17	37	138
13:55:52	57888	32	43	86	13:56:52	57504	16	36	137
13:55:53	57882	35	40	82	13:56:53	57501	17	39	138
13:55:54	57888	39	38	93	13:56:54	57276	12	37	107
13:55:55	57888	41	37	90	13:56:55	56996	11	35	112
13:55:56	57875	32	49	86	13:56:56	56996	8	27	112
13:55:57	57868	40	42	91	13:56:57	57570	17	33	144
13:55:58	57855	35	44	87	13:56:58	57570	12	31	153
13:55:59	57855	33	45	89	13:56:59	57638	16	41	159
13:56: 0	57874	29	52	127	13:57: 0	57638	21	36	143
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13:56: 2	57864	29	44	90	13:57: 2	57710	16	36	177
13:56: 3	57878	30	33	93	13:57: 3	57710	17	39	175
13:56: 4	57878	32	27	130	13:57: 4	57724	14	28	177
13:56: 5	57900	30	30	128	13:57: 5	57724	22	33	191
13:56: 6	57900	26	37	88	13:57: 6	57724	15	34	210
13:56: 7	57890	29	42	92	13:57: 7	57724	11	27	204
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13:57:11	57769	20	34	217	13:48:50	57226	24	28	137
13:57:12	57808	12	33	205	13:48:51	57226	26	33	99
13:57:13	57794	22	35	206	13:48:52	57226	29	41	99
13:57:14	57794	14	34	217	13:48:53	57226	31	46	135
13:57:15	57794	15	41	216	13:48:54	57358	38	44	135
13:57:16	57782	15	29	214	13:48:55	57360	40	46	121
13:57:17	57774	15	34	222	13:48:56	57383	34	56	93
13:57:18	57784	14	29	227	13:48:57	57383	58	58	94
13:57:19	57765	14	32	229	13:48:58	57432	43	44	148
13:57:20	57747	12	27	175	13:48:59	57432	40	43	117
13:57:21	57747	13	31	237	13:49: 0	57461	32	39	98
13:57:22	57740	23	33	226	13:49: 1	57469	43	42	94
13:57:23	57737	15	35	253	13:49: 2	57501	41	38	97
13:57:24	57736	14	33	251	13:49: 3	57501	37	53	132
13:57:25	57736	14	28	254	13:49: 4	57535	44	43	101
13:57:26	57736	17	35	251	13:49: 5	57535	46	44	106
13:57:27	57736	26	27	252	13:49: 6	57556	48	46	97
13:57:28	57736	10	25	266	13:49: 7	57558	46	45	96
13:57:29	57736	9	25	263	13:49: 8	57552	45	44	95
13:57:30	57668	13	25	253	13:49: 9	57480	35	43	131
13:57:31	57601	7	25	246	13:49:10	57561	39	41	97
13:57:32	57668	4	25	274	13:49:11	57563	39	43	98
LINE: RE9	flown WEST	on 83/07/05			13:49:12	57563	37	39	94
13:48:13	57485	17	28	149	13:49:13	57533	37	38	131
13:48:14	57544	15	30	143	13:49:14	57533	38	42	99
13:48:15	57544	16	40	149	13:49:15	57521	26	36	86
13:48:16	57514	14	45	138	13:49:16	57520	30	35	91
13:48:17	57494	24	45	124	13:49:17	57520	29	40	134
13:48:18	57494	27	35	121	13:49:18	57500	27	33	133
13:48:19	57422	35	50	110	13:49:19	57500	23	36	97
13:48:20	57410	41	53	134	13:49:20	57509	21	36	99
13:48:21	57410	46	51	138	13:49:21	57509	26	39	141
13:48:22	57372	45	50	91	13:49:22	57435	28	39	145
13:48:23	57366	34	46	89	13:49:23	57435	27	37	117
13:48:24	57366	40	48	83	13:49:24	57435	26	37	119
13:48:25	57386	31	47	126	13:49:25	57435	21	29	121
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13:48:27	57412	36	44	86	13:49:27	57426	24	39	116
13:48:28	57401	36	44	93	13:49:28	57468	22	35	136
13:48:29	57392	36	39	132	13:49:29	57468	26	40	100
13:48:30	57392	36	35	137	13:49:30	57468	27	39	95
13:48:31	57269	36	42	137	13:49:31	57556	30	38	135
13:48:32	57269	27	42	100	13:49:32	57556	31	39	133
13:48:33	57269	34	44	97	13:49:33	57628	29	38	135
13:48:34	57160	30	39	103	13:49:34	57760	24	38	107
13:48:35	57160	30	42	136	13:49:35	57760	27	41	146
13:48:36	57150	30	43	137	13:49:36	57879	26	41	140
13:48:37	57150	25	43	136	13:49:37	57929	30	45	133
13:48:38	57150	25	46	107	13:49:38	57929	30	41	109
13:48:39	57150	25	48	109	13:49:39	57971	27	44	97
13:48:40	57106	25	43	138	13:49:40	57963	27	41	129
13:48:41	57106	22	39	142	13:49:41	57963	35	42	130
13:48:42	57079	22	40	119	13:49:42	57954	35	46	138
13:48:43	57079	22	36	115	13:49:43	57954	37	48	138
13:48:44	57062	24	40	152	13:49:44	57954	35	48	107
13:48:45	57062	22	39	135	13:49:45	57857	40	46	140
13:48:46	57062	23	42	113	13:49:46	57857	39	48	139
13:48:47	57122	22	39	108	13:49:47	57834	34	42	99

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:49:50	57806	27	38	132	13:50:50	57482	12	25	108
13:49:51	57811	28	38	133	13:50:51	57482	12	28	140
13:49:52	57811	26	36	132	13:50:52	57478	10	20	110
13:49:53	57824	28	38	108	13:50:53	57478	12	28	139
13:49:54	57796	33	38	112	13:50:54	57458	13	32	109
13:49:55	57796	36	42	148	13:50:55	57458	12	30	121
13:49:56	57792	37	42	124	13:50:56	57438	16	30	141
13:49:57	57792	34	39	155	13:50:57	57438	13	32	132
13:49:58	57793	31	34	125	13:50:58	57449	15	33	110
13:49:59	57793	29	37	115	13:50:59	57464	13	31	134
13:50:0	57793	28	38	136	13:51:0	57464	12	30	142
13:50:1	57796	29	33	137	13:51:1	57502	10	31	145
13:50:2	57796	29	31	134	13:51:2	57502	10	23	147
13:50:3	57796	29	31	105	13:51:3	57551	14	27	113
13:50:4	57808	28	34	116	13:51:4	57598	12	28	114
13:50:5	57808	36	42	98	13:51:5	57598	12	26	147
13:50:6	57802	41	44	132	13:51:6	57630	9	25	121
13:50:7	57802	30	41	85	13:51:7	57630	10	32	124
13:50:8	57781	39	40	83	13:51:8	57658	10	26	144
13:50:9	57781	36	39	121	13:51:9	57687	11	29	113
13:50:10	57738	36	34	122	13:51:10	57702	8	30	147
13:50:11	57738	39	34	83	13:51:11	57702	8	17	149
13:50:12	57715	32	29	86	13:51:12	57702	9	26	147
13:50:13	57715	34	29	86	13:51:13	57784	17	27	116
13:50:14	57676	30	28	127	13:51:14	57856	7	22	111
13:50:15	57676	34	33	94	13:51:15	57856	10	28	148
13:50:16	57667	32	33	131	13:51:16	57894	7	31	138
13:50:17	57643	30	26	95	13:51:17	57776	15	38	117
13:50:18	57643	31	28	96	13:51:18	57893	10	35	139
13:50:19	57643	33	32	129	13:51:19	57893	15	32	120
13:50:20	57620	31	34	135	13:51:20	57834	7	31	120
13:50:21	57607	31	37	96	13:51:21	57791	14	31	153
13:50:22	57607	31	36	97	13:51:22	57748	8	27	131
13:50:23	57581	29	35	119	13:51:23	57791	7	29	129
13:50:24	57581	31	38	95	13:51:24	57791	8	30	174
13:50:25	57573	29	35	93	LINE: RE10	flown WEST	on 83/07/05		
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13:50:27	57576	26	32	88	13:41:50	57557	11	29	140
13:50:28	57575	26	42	89	13:41:51	57557	3	30	161
13:50:29	57575	19	32	106	13:41:52	57678	2	31	156
13:50:30	57575	26	32	87	13:41:53	57678	4	28	125
13:50:31	57581	27	31	89	13:41:54	57678	12	25	116
13:50:32	57575	28	34	133	13:41:55	57678	5	26	114
13:50:33	57575	24	34	134	13:41:56	57992	5	33	152
13:50:34	57577	22	30	135	13:41:57	57992	3	36	156
13:50:35	57577	22	36	98	13:41:58	57923	4	37	116
13:50:36	57577	20	29	95	13:41:59	57923	4	42	88
13:50:37	57576	20	35	132	13:42:0	57923	4	34	109
13:50:38	57576	19	29	115	13:42:1	57690	15	48	134
13:50:39	57576	19	28	131	13:42:2	57690	13	48	134
13:50:40	57570	19	27	99	13:42:3	57577	18	47	131
13:50:41	57570	20	34	100	13:42:4	57492	20	43	92
13:50:42	57543	18	25	130	13:42:5	57492	22	47	107
13:50:43	57531	17	33	128	13:42:6	57449	18	38	106
13:50:44	57531	17	30	114	13:42:7	57449	18	48	136
13:50:45	57515	14	33	97	13:42:8	57330	23	44	128
13:50:46	57505	15	34	102	13:42:9	57269	17	42	98
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TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:42:13	57163	15	39	92	13:43:13	57356	11	36	147
13:42:14	57085	16	40	95	13:43:14	57356	6	29	136
13:42:15	57085	13	27	89	13:43:15	57410	6	35	98
13:42:16	57029	16	39	125	13:43:16	57410	8	28	97
13:42:17	57029	15	38	126	13:43:17	57368	11	35	96
13:42:18	57006	15	40	84	13:43:18	57368	11	37	131
13:42:19	57029	13	34	82	13:43:19	57367	12	39	132
13:42:20	57029	12	34	126	13:43:20	57359	11	38	97
13:42:21	57029	11	27	122	13:43:21	57359	10	28	79
13:42:22	57066	11	34	81	13:43:22	57363	10	44	98
13:42:23	57078	10	25	82	13:43:23	57368	15	39	112
13:42:24	57078	9	41	92	13:43:24	57374	11	36	130
13:42:25	57127	7	22	125	13:43:25	57410	10	41	101
13:42:26	57127	9	35	92	13:43:26	57410	10	31	104
13:42:27	57132	8	32	93	13:43:27	57430	16	39	139
13:42:28	57123	7	22	97	13:43:28	57430	12	35	140
13:42:29	57123	9	36	144	13:43:29	57430	15	39	110
13:42:30	57094	8	35	146	13:43:30	57430	11	39	111
13:42:31	57094	8	26	148	13:43:31	57536	12	36	150
13:42:32	57097	10	32	97	13:43:32	57536	11	38	135
13:42:33	57119	7	34	89	13:43:33	57582	12	32	135
13:42:34	57143	14	35	119	13:43:34	57582	14	43	96
13:42:35	57143	8	35	102	13:43:35	57582	12	45	97
13:42:36	57165	10	38	128	13:43:36	57582	11	44	125
13:42:37	57190	11	36	95	13:43:37	57664	11	42	139
13:42:38	57190	11	24	99	13:43:38	57664	13	44	144
13:42:39	57288	12	37	139	13:43:39	57674	18	39	128
13:42:40	57288	12	32	135	13:43:40	57673	17	40	134
13:42:41	57286	14	30	136	13:43:41	57673	17	42	165
13:42:42	57348	17	40	95	13:43:42	57686	17	43	160
13:42:43	57348	18	41	98	13:43:43	57692	15	28	140
13:42:44	57348	21	40	133	13:43:44	57715	19	36	136
13:42:45	57348	18	30	120	13:43:45	57715	13	39	135
13:42:46	57407	20	42	131	13:43:46	57739	19	50	160
13:42:47	57435	21	39	98	13:43:47	57739	14	36	137
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13:42:49	57449	18	34	123	13:43:49	57742	14	30	130
13:42:50	57449	24	48	106	13:43:50	57742	19	38	161
13:42:51	57467	23	38	134	13:43:51	57742	16	40	157
13:42:52	57464	22	46	98	13:43:52	57742	19	36	114
13:42:53	57464	24	45	101	13:43:53	57737	15	33	113
13:42:54	57462	18	39	137	13:43:54	57745	14	36	146
13:42:55	57462	16	33	136	13:43:55	57745	12	28	133
13:42:56	57459	19	40	102	13:43:56	57757	14	32	128
13:42:57	57459	18	29	106	13:43:57	57757	11	41	134
13:42:58	57450	17	26	147	13:43:58	57769	12	35	139
13:42:59	57450	17	35	150	13:43:59	57763	12	34	136
13:43: 0	57442	18	44	117	13:44: 0	57772	12	31	154
13:43: 1	57439	16	38	119	13:44: 1	57782	11	30	149
13:43: 2	57433	19	37	134	13:44: 2	57782	13	35	144
13:43: 3	57431	13	28	121	13:44: 3	57792	19	39	108
13:43: 4	57431	13	36	145	13:44: 4	57792	14	35	103
13:43: 5	57419	12	25	150	13:44: 5	57792	14	32	104
13:43: 6	57422	12	38	118	13:44: 6	57793	13	29	102
13:43: 7	57422	11	37	124	13:44: 7	57784	15	23	123
13:43: 8	57432	16	34	153	13:44: 8	57784	20	25	102
13:43: 9	57432	9	37	147	13:44: 9	57788	20	32	106
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13:44:13	57695	20	38	118	13:45:13	57512	10	29	125
13:44:14	57695	17	38	151	13:45:14	57563	2	31	118
13:44:15	57663	13	32	148	13:45:15	57563	15	35	155
13:44:16	57663	15	26	122	13:45:16	57605	4	26	148
13:44:17	57663	14	25	123	13:45:17	57605	2	17	144
13:44:18	57612	14	22	159	13:45:18	57670	8	25	115
13:44:19	57612	12	19	153	13:45:19	57637	2	28	116
13:44:20	57607	12	21	118	13:45:20	57637	4	31	157
13:44:21	57607	12	19	125	13:45:21	57637	2	23	150
13:44:22	57607	12	28	128	13:45:22	57784	3	32	150
13:44:23	57599	12	32	163	13:45:23	57931	10	30	126
13:44:24	57599	10	31	164	13:45:24	57931	4	29	128
13:44:25	57606	15	33	127	13:45:25	57931	3	29	140
13:44:26	57596	10	28	115	13:45:26	57931	11	24	152
13:44:27	57585	10	22	106	13:45:27	57931	3	19	160
13:44:28	57585	13	25	103	13:45:28	57931	5	16	162
13:44:29	57580	16	21	100	13:45:29	57931	1	11	173
13:44:30	57580	10	20	124	13:45:30	57931	2	20	186
13:44:31	57597	10	23	132	13:45:31	57931	4	21	193
13:44:32	57596	13	26	105	13:45:32	57931	6	18	192
13:44:33	57596	8	30	143	LINE: RE11				
13:44:34	57596	9	31	130	13:35:59	57298	13	27	192
13:44:35	57596	11	36	99	13:36: 0	57298	24	26	187
13:44:36	57611	8	32	97	13:36: 1	57341	17	25	193
13:44:37	57627	14	27	100	13:36: 2	57341	17	27	181
13:44:38	57627	8	27	134	13:36: 3	57385	16	26	176
13:44:39	57621	7	28	135	13:36: 4	57470	22	25	151
13:44:40	57619	6	26	102	13:36: 5	57470	16	28	166
13:44:41	57572	7	26	104	13:36: 6	57608	15	28	154
13:44:42	57572	8	20	111	13:36: 7	57608	15	22	150
13:44:43	57548	6	24	109	13:36: 8	57849	19	26	117
13:44:44	57548	10	23	141	13:36: 9	58161	18	27	110
13:44:45	57525	6	30	108	13:36:10	58161	23	28	144
13:44:46	57521	5	26	111	13:36:11	58161	20	27	148
13:44:47	57521	3	21	108	13:36:12	58389	19	37	150
13:44:48	57521	6	23	138	13:36:13	58389	17	37	115
13:44:49	57492	5	24	113	13:36:14	58389	20	41	116
13:44:50	57437	5	27	107	13:36:15	58025	34	43	132
13:44:51	57437	6	27	106	13:36:16	58025	45	43	112
13:44:52	57393	5	23	143	13:36:17	57816	37	39	141
13:44:53	57393	4	25	141	13:36:18	57816	44	39	109
13:44:54	57363	5	28	103	13:36:19	57503	45	38	113
13:44:55	57352	4	24	104	13:36:20	57503	37	40	146
13:44:56	57352	4	27	145	13:36:21	57401	42	42	152
13:44:57	57360	11	28	145	13:36:22	57372	36	41	138
13:44:58	57374	4	31	107	13:36:23	57283	34	43	105
13:44:59	57374	4	28	102	13:36:24	57283	34	35	102
13:45: 0	57384	5	30	104	13:36:25	57237	34	34	140
13:45: 1	57384	11	33	136	13:36:26	57237	33	36	134
13:45: 2	57390	5	28	137	13:36:27	57149	35	39	100
13:45: 3	57390	10	30	109	13:36:28	57120	36	39	102
13:45: 4	57388	7	27	125	13:36:29	57120	37	39	145
13:45: 5	57398	4	29	109	13:36:30	57120	31	38	136
13:45: 6	57398	3	28	149	13:36:31	57165	34	36	137
13:45: 7	57424	2	20	151	13:36:32	57165	31	38	101
13:45: 8	57424	7	30	121	13:36:33	57165	27	34	104
13:45: 9	57459	8	32	123	13:36:34	57196	27	36	104
13:45:10	57486	4	28	128	13:36:35	57196	25	38	129

flown WEST on 83/07/05

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:36:38	57190	27	34	127	13:37:38	57606	35	39	125
13:36:39	57160	25	36	130	13:37:39	57627	29	49	82
13:36:40	57160	25	37	163	13:37:40	57627	32	40	87
13:36:41	57139	26	37	162	13:37:41	57623	30	37	132
13:36:42	57152	26	38	134	13:37:42	57623	33	37	132
13:36:43	57164	26	33	124	13:37:43	57639	37	39	136
13:36:44	57164	26	41	123	13:37:44	57636	32	37	109
13:36:45	57155	25	38	120	13:37:45	57636	40	39	140
13:36:46	57155	24	32	136	13:37:46	57698	38	43	135
13:36:47	57155	24	36	100	13:37:47	57698	36	40	135
13:36:48	57184	27	33	100	13:37:48	57731	33	37	95
13:36:49	57184	30	38	131	13:37:49	57744	33	37	95
13:36:50	57196	32	37	134	13:37:50	57732	34	35	99
13:36:51	57196	32	42	95	13:37:51	57732	36	36	116
13:36:52	57196	35	43	93	13:37:52	57732	36	37	127
13:36:53	57235	32	41	94	13:37:53	57757	33	37	94
13:36:54	57235	34	41	128	13:37:54	57757	35	36	88
13:36:55	57255	32	42	95	13:37:55	57755	37	37	126
13:36:56	57273	33	37	108	13:37:56	57755	33	37	128
13:36:57	57273	34	37	97	13:37:57	57754	28	33	135
13:36:58	57283	37	36	95	13:37:58	57759	25	34	107
13:36:59	57283	31	38	133	13:37:59	57757	24	29	108
13:37: 0	57298	38	36	91	13:38: 0	57757	23	29	137
13:37: 1	57288	39	36	94	13:38: 1	57762	24	26	133
13:37: 2	57288	42	37	134	13:38: 2	57762	27	28	129
13:37: 3	57304	42	40	104	13:38: 3	57759	28	29	91
13:37: 4	57304	42	40	101	13:38: 4	57765	30	32	89
13:37: 5	57335	42	40	127	13:38: 5	57772	34	33	125
13:37: 6	57363	37	38	85	13:38: 6	57772	40	37	127
13:37: 7	57363	40	40	86	13:38: 7	57778	41	37	88
13:37: 8	57363	30	38	132	13:38: 8	57779	42	38	88
13:37: 9	57375	35	33	135	13:38: 9	57779	34	27	130
13:37:10	57375	27	31	107	13:38:10	57779	36	27	131
13:37:11	57375	35	29	105	13:38:11	57779	35	28	96
13:37:12	57342	30	36	144	13:38:12	57797	38	31	118
13:37:13	57342	29	33	153	13:38:13	57793	35	24	98
13:37:14	57306	29	34	137	13:38:14	57793	39	29	138
13:37:15	57294	26	34	112	13:38:15	57759	39	30	135
13:37:16	57292	27	33	105	13:38:16	57759	41	30	136
13:37:17	57292	26	36	136	13:38:17	57708	30	29	131
13:37:18	57292	28	34	133	13:38:18	57708	40	33	88
13:37:19	57292	29	33	91	13:38:19	57699	32	41	126
13:37:20	57288	30	36	94	13:38:20	57699	39	35	87
13:37:21	57288	31	35	105	13:38:21	57703	40	38	88
13:37:22	57288	30	36	109	13:38:22	57697	41	37	89
13:37:23	57290	27	37	140	13:38:23	57697	41	28	132
13:37:24	57290	30	34	102	13:38:24	57684	35	24	122
13:37:25	57290	30	37	101	13:38:25	57684	35	24	126
13:37:26	57328	29	36	99	13:38:26	57658	33	23	125
13:37:27	57328	28	39	134	13:38:27	57658	30	29	122
13:37:28	57152	25	37	95	13:38:28	57614	34	31	136
13:37:29	57399	25	34	112	13:38:29	57614	26	30	134
13:37:30	57419	28	29	108	13:38:30	57614	28	28	137
13:37:31	57419	29	33	124	13:38:31	57600	24	29	107
13:37:32	57464	30	36	119	13:38:32	57600	28	28	111
13:37:33	57496	31	37	88	13:38:33	57587	25	28	119
13:37:34	57541	34	35	84	13:38:34	57587	25	30	146
13:37:35	57541	37	42	90	13:38:35	57592	26	27	137

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:38:38	57579	27	21	92	13:39:38	57643	9	18	185
13:38:39	57588	24	21	123	13:39:39	57643	23	16	177
13:38:40	57588	30	26	126	13:39:40	57643	10	15	168
13:38:41	57597	24	28	89	13:39:41	57643	10	13	124
13:38:42	57597	27	25	90	13:39:42	0	0	0	0
13:38:43	57597	26	24	93	LINE: RE12	flown WEST			on 83/07/05
13:38:44	57591	19	26	116	13:30:40	57281	16	31	139
13:38:45	57569	21	24	86	13:30:41	57330	12	34	129
13:38:46	57518	23	22	85	13:30:42	57330	15	32	149
13:38:47	57518	24	17	98	13:30:43	57378	10	33	129
13:38:48	57518	24	24	135	13:30:44	57378	14	32	103
13:38:49	57469	23	21	121	13:30:45	57378	11	34	113
13:38:50	57451	21	20	94	13:30:46	57416	11	35	142
13:38:51	57451	20	25	92	13:30:47	57416	9	24	106
13:38:52	57435	22	25	122	13:30:48	57448	12	29	109
13:38:53	57435	19	25	129	13:30:49	57448	14	31	136
13:38:54	57435	19	25	85	13:30:50	57531	19	30	113
13:38:55	57435	18	20	84	13:30:51	57531	20	32	150
13:38:56	57460	20	25	127	13:30:52	57758	18	34	137
13:38:57	57460	20	27	127	13:30:53	57758	22	31	126
13:38:58	57460	20	29	124	13:30:54	58218	18	34	101
13:38:59	57482	17	20	123	13:30:55	58476	22	33	155
13:39:0	57482	21	22	122	13:30:56	58465	15	35	150
13:39:1	57482	19	23	80	13:30:57	58465	15	42	153
13:39:2	57444	19	23	82	13:30:58	58465	26	46	120
13:39:3	57444	21	28	128	13:30:59	58186	37	48	121
13:39:4	57400	18	25	108	13:31:0	57870	42	47	158
13:39:5	57400	18	26	127	13:31:1	57870	42	53	152
13:39:6	57400	20	23	93	13:31:2	57626	44	40	130
13:39:7	57372	17	26	134	13:31:3	57626	43	44	159
13:39:8	57372	17	29	134	13:31:4	57626	36	46	126
13:39:9	57349	17	23	140	13:31:5	57367	36	47	127
13:39:10	57353	16	30	109	13:31:6	57367	31	41	138
13:39:11	57357	16	23	115	13:31:7	57367	33	38	146
13:39:12	57357	14	22	142	13:31:8	57269	33	36	109
13:39:13	57387	11	19	117	13:31:9	57230	33	37	108
13:39:14	57428	11	23	116	13:31:10	57230	33	41	139
13:39:15	57461	14	22	119	13:31:11	57204	33	38	139
13:39:16	57461	14	20	148	13:31:12	57170	36	42	135
13:39:17	57461	11	24	146	13:31:13	57167	31	42	102
13:39:18	57519	15	28	144	13:31:14	57167	35	43	117
13:39:19	57575	17	23	105	13:31:15	57167	29	40	146
13:39:20	57575	14	23	107	13:31:16	57167	27	43	139
13:39:21	57547	17	21	139	13:31:17	57167	23	37	121
13:39:22	57643	12	23	96	13:31:18	57167	25	30	128
13:39:23	57740	12	26	92	13:31:19	57136	26	36	131
13:39:24	57643	13	21	90	13:31:20	57136	26	38	154
13:39:25	57643	12	20	90	13:31:21	57140	27	44	111
13:39:26	57643	11	23	97	13:31:22	57140	32	44	104
13:39:27	57643	12	21	96	13:31:23	57140	37	47	103
13:39:28	57643	8	21	114	13:31:24	57160	33	44	138
13:39:29	57643	14	19	123	13:31:25	57160	35	46	136
13:39:30	57643	7	16	136	13:31:26	57193	33	50	91
13:39:31	57643	13	12	154	13:31:27	57193	31	44	88
13:39:32	57643	4	17	173	13:31:28	57193	31	48	93
13:39:33	57643	2	17	176	13:31:29	57222	30	39	94
13:39:34	57643	2	17	164	13:31:30	57222	35	40	106
13:39:35	57643	3	21	189	13:31:31	57248	36	43	94



TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:31:34	57261	44	51	96	13:32:34	57758	37	28	86
13:31:35	57324	33	52	133	13:32:35	57758	43	26	86
13:31:36	57324	41	52	133	13:32:36	57758	32	27	130
13:31:37	57367	30	53	93	13:32:37	57330	39	35	133
13:31:38	57367	39	41	93	13:32:38	57330	40	35	133
13:31:39	57396	39	38	133	13:32:39	57782	31	35	109
13:31:40	57396	41	41	132	13:32:40	57782	34	32	110
13:31:41	57426	27	41	96	13:32:41	57782	30	32	127
13:31:42	57426	40	40	105	13:32:42	57792	33	33	95
13:31:43	57375	37	44	110	13:32:43	57783	38	23	95
13:31:44	57375	35	39	124	13:32:44	57783	41	26	98
13:31:45	57334	30	42	144	13:32:45	57783	38	22	136
13:31:46	57334	29	41	116	13:32:46	57718	36	31	135
13:31:47	57334	32	42	115	13:32:47	57718	31	28	108
13:31:48	57277	33	37	154	13:32:48	57714	39	30	88
13:31:49	57277	33	38	152	13:32:49	57681	39	32	82
13:31:50	57271	33	39	121	13:32:50	57681	40	37	123
13:31:51	57282	33	39	127	13:32:51	57670	40	37	119
13:31:52	57282	34	42	128	13:32:52	57670	32	31	121
13:31:53	57318	34	42	129	13:32:53	57670	26	28	82
13:31:54	57318	31	44	158	13:32:54	57673	37	26	85
13:31:55	57371	34	42	153	13:32:55	57673	36	18	83
13:31:56	57405	32	42	123	13:32:56	57666	29	19	133
13:31:57	57405	30	36	120	13:32:57	57666	33	22	133
13:31:58	57405	35	38	147	13:32:58	57666	32	24	109
13:31:59	57438	33	38	113	13:32:59	57594	27	30	108
13:31:60	57438	36	36	112	13:33:0	57594	28	30	140
13:32:0	57438	38	39	147	13:33:1	57594	30	29	137
13:32:1	57492	37	44	143	13:33:2	57523	26	26	104
13:32:2	57492	41	46	120	13:33:3	57523	25	29	100
13:32:3	57525	38	47	113	13:33:4	57513	23	26	136
13:32:4	57525	37	45	111	13:33:5	57513	23	23	133
13:32:5	57525	34	44	121	13:33:6	57501	23	20	95
13:32:6	57556	33	38	119	13:33:7	57483	25	18	99
13:32:7	57540	36	42	115	13:33:8	57498	29	21	112
13:32:8	57554	34	37	104	13:33:9	57484	26	23	134
13:32:9	57569	32	36	109	13:33:10	57471	25	24	96
13:32:10	57605	29	36	124	13:33:11	57457	25	25	99
13:32:11	57605	31	29	112	13:33:12	57451	24	26	100
13:32:12	57605	35	33	145	13:33:13	57451	24	25	130
13:32:13	57623	34	35	118	13:33:14	57491	24	31	111
13:32:14	57642	34	37	141	13:33:15	57491	20	26	130
13:32:16	57642	31	40	126	13:33:16	57496	23	23	103
13:32:17	57636	30	38	157	13:33:17	57476	24	26	113
13:32:18	57636	29	37	132	13:33:18	57476	24	29	142
13:32:19	57661	24	37	134	13:33:19	57487	20	23	146
13:32:20	57647	27	36	136	13:33:20	57487	24	25	120
13:32:21	57647	27	31	121	13:33:21	57377	23	28	117
13:32:22	57675	25	30	136	13:33:22	57377	21	25	141
13:32:23	57675	31	29	138	13:33:23	57377	23	24	149
13:32:24	57693	31	33	103	13:33:24	57377	22	25	145
13:32:25	57699	31	33	103	13:33:25	57324	24	25	111
13:32:26	57699	47	43	104	13:33:26	57324	24	27	100
13:32:27	57699	35	38	135	13:33:27	57324	25	28	92
13:32:28	57709	42	40	118	13:33:28	57419	25	25	115
13:32:29	57755	39	41	94	13:33:29	57419	25	27	127
13:32:30	57755	36	36	108	13:33:30	57458	22	27	90
13:32:31	57732	37	31	91	13:33:31	57505	24	28	90

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13:33:34	57537	23	28	89	13:25:47	57234	28	45	142
13:33:35	57594	21	29	94	13:25:48	57234	30	42	163
13:33:36	57594	19	33	106	13:25:49	57234	29	39	167
13:33:37	57594	17	28	101	13:25:50	57208	29	44	156
13:33:38	57594	19	27	137	13:25:51	57163	28	39	154
13:33:39	57594	19	26	109	13:25:52	57163	28	46	175
13:33:40	57594	16	30	120	13:25:53	57133	27	41	150
13:33:41	57594	14	25	128	13:25:54	57133	29	49	161
13:33:42	57626	21	19	140	13:25:55	57144	29	49	136
13:33:43	57659	15	16	158	13:25:56	57144	25	41	129
13:33:44	57637	9	16	180	13:25:57	57161	24	48	162
13:33:45	57631	5	19	176	13:25:58	57161	23	35	156
13:33:46	57631	3	15	195	13:25:59	57151	25	48	154
13:33:47	57631	5	22	187	13:26:0	57139	26	44	122
13:33:48	57631	16	31	202	13:26:1	57139	28	45	149
13:33:49	57631	9	23	177	13:26:2	57123	30	44	144
13:33:50	57631	11	17	186	13:26:3	57123	33	46	142
13:33:51	57631	13	16	163	13:26:4	57120	30	49	105
LINE: RE13	flown WEST	on 83/07/05			13:26:5	57142	35	50	101
13:25:6	58138	13	41	151	13:26:6	57142	35	46	137
13:25:7	58279	15	42	113	13:26:7	57161	32	43	119
13:25:8	58364	16	36	114	13:26:8	57161	31	43	140
13:25:9	58364	17	30	111	13:26:9	57202	27	46	96
13:25:10	58364	15	39	138	13:26:10	57234	30	47	94
13:25:11	58278	12	32	140	13:26:11	57234	30	49	99
13:25:12	58278	25	51	105	13:26:12	57251	35	47	100
13:25:13	58278	34	54	104	13:26:13	57251	29	40	96
13:25:14	58278	29	57	145	13:26:14	57251	37	42	92
13:25:15	57728	27	37	141	13:26:15	57251	37	46	96
13:25:16	57631	29	52	142	13:26:16	57333	39	45	95
13:25:17	57631	33	53	100	13:26:17	57333	38	47	132
13:25:18	57631	47	53	114	13:26:18	57373	36	40	131
13:25:19	56912	48	55	102	13:26:19	57405	34	45	84
13:25:20	56912	46	53	137	13:26:20	57405	37	48	84
13:25:21	57271	40	50	101	13:26:21	57405	33	45	123
13:25:22	57271	37	50	141	13:26:22	57411	39	48	125
13:25:23	57284	32	51	104	13:26:23	57411	41	44	84
13:25:24	57298	32	56	143	13:26:24	57395	38	44	87
13:25:25	57298	30	53	143	13:26:25	57241	34	41	87
13:25:26	57293	34	52	147	13:26:26	57241	32	41	127
13:25:27	57272	36	48	112	13:26:27	57308	33	42	131
13:25:28	57272	37	47	111	13:26:28	57308	27	47	98
13:25:29	57231	35	47	141	13:26:29	57308	30	44	101
13:25:30	57231	39	48	133	13:26:30	57311	27	43	99
13:25:31	57271	35	48	150	13:26:31	57311	25	42	138
13:25:32	57318	28	50	118	13:26:32	57261	29	39	122
13:25:33	57318	28	51	116	13:26:33	57261	35	41	106
13:25:34	57318	28	47	152	13:26:34	57228	33	39	108
13:25:35	57288	27	39	151	13:26:35	57228	33	41	141
13:25:36	57288	28	45	124	13:26:36	57232	33	39	144
13:25:37	57288	29	41	124	13:26:37	57232	34	43	117
13:25:38	57311	30	44	159	13:26:38	57242	33	40	119
13:25:39	57279	31	40	149	13:26:39	57285	31	45	122
13:25:40	57279	30	44	128	13:26:40	57285	29	48	121
13:25:41	57248	31	47	131	13:26:41	57323	26	43	153
13:25:42	57228	31	46	130	13:26:42	57323	29	38	123
13:25:43	57228	29	43	155	13:26:43	57333	33	43	117
13:25:44	57219	29	47	125	13:26:44	57356	33	38	151

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13:26:47	57371	35	41	136	13:27:47	57642	35	31	128
13:26:48	57371	33	43	101	13:27:48	57654	23	31	95
13:26:49	57406	38	48	100	13:27:49	57649	26	33	99
13:26:50	57406	40	49	133	13:27:50	57577	28	30	107
13:26:51	57406	38	45	95	13:27:51	57577	25	27	151
13:26:52	57462	37	43	103	13:27:52	57511	25	27	129
13:26:53	57474	35	44	110	13:27:53	57511	27	27	134
13:26:54	57474	33	36	127	13:27:54	57511	28	22	157
13:26:55	57491	36	40	137	13:27:55	57433	27	21	167
13:26:56	57491	37	40	130	13:27:56	57472	13	10	0
13:26:57	57500	36	38	131	13:27:57	57472	0	0	0
13:26:58	57515	38	43	154	13:27:58	57472	0	0	0
13:26:59	57533	37	45	158	13:27:59	57472	0	0	0
13:27:00	57533	36	41	158	13:28:00	57452	13	14	0
13:27:01	57565	34	43	162	13:28:01	57433	26	29	149
13:27:02	57607	30	45	136	13:28:02	57390	27	30	161
13:27:03	57607	31	47	136	13:28:03	57390	25	26	132
13:27:04	57607	30	45	163	13:28:04	57390	22	26	128
13:27:05	57620	31	37	145	13:28:05	57402	23	25	155
13:27:06	57614	32	40	149	13:28:06	57402	19	24	147
13:27:07	57618	32	40	163	13:28:07	57444	16	26	102
13:27:08	57618	32	44	165	13:28:08	57365	20	24	97
13:27:09	57633	31	40	191	13:28:09	57365	31	20	104
13:27:10	57633	32	42	159	13:28:10	57365	27	25	139
13:27:11	57647	32	34	149	13:28:11	57393	19	23	138
13:27:12	57647	30	38	158	13:28:12	57393	24	24	136
13:27:13	57687	28	41	129	13:28:13	57322	25	29	94
13:27:14	57687	27	41	145	13:28:14	57334	20	26	93
13:27:15	57691	31	38	104	13:28:15	57282	24	25	135
13:27:16	57699	35	35	100	13:28:16	57282	22	26	139
13:27:17	57708	34	33	117	13:28:17	57297	20	22	118
13:27:18	57708	33	34	146	13:28:18	57297	25	24	125
13:27:19	57708	39	31	132	13:28:19	57297	24	22	155
13:27:20	57708	34	32	89	13:28:20	57297	22	21	148
13:27:21	57713	46	39	89	13:28:21	57346	23	23	133
13:27:22	57711	45	39	88	13:28:22	57346	21	23	96
13:27:23	57711	36	38	126	13:28:23	57346	20	23	96
13:27:24	57716	44	42	152	13:28:24	57346	20	24	90
13:27:25	57716	44	40	90	13:28:25	57346	22	25	96
13:27:26	57742	37	37	91	13:28:26	57424	21	26	136
13:27:27	57742	37	32	122	13:28:27	57424	22	26	137
13:27:28	57756	34	33	133	13:28:28	57461	21	21	101
13:27:29	57756	32	30	134	13:28:29	57461	20	25	140
13:27:30	57746	36	25	99	13:28:30	57479	21	23	113
13:27:31	57762	39	28	104	13:28:31	57479	19	23	145
13:27:32	57759	40	29	113	13:28:32	57505	20	19	127
13:27:33	57773	30	30	141	13:28:33	57492	20	22	143
13:27:34	57787	34	33	137	13:28:34	57550	19	23	173
13:27:35	57817	30	31	101	13:28:35	57608	17	24	173
13:27:36	57817	28	31	95	13:28:36	57608	17	20	130
13:27:37	57807	31	32	131	13:28:37	57608	17	11	161
13:27:38	57807	34	36	132	13:28:38	57608	16	10	201
13:27:39	57776	29	31	96	13:28:39	57608	11	18	203
13:27:40	57636	36	32	88	13:28:40	57608	6	23	187
13:27:41	57636	33	30	125	13:28:41	57608	5	17	179
13:27:42	57643	31	28	124	13:28:42	57608	12	22	150
13:27:43	57643	38	29	121	13:28:43	57608	9	20	159
13:27:44	57639	32	32	81	13:28:44	57608	11	19	138

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13:28:47	57608	15	10	104	13:18:36	57169	35	49	119
13:28:48	0	0	0	0	13:18:37	57199	34	56	148
13:28:49	0	0	0	0	13:18:38	57199	32	46	146
LINE: RE14	flown WEST	on 83/07/05			13:18:39	57230	30	52	122
13:17:40	57747	14	58	93	13:18:40	57259	26	40	119
13:17:41	57747	12	57	92	13:18:41	57259	28	46	148
13:17:42	57747	1	44	89	13:18:42	57267	30	45	144
13:17:43	57747	2	42	87	13:18:43	57267	29	39	136
13:17:44	57666	8	50	126	13:18:44	57267	24	44	93
13:17:45	57666	11	60	117	13:18:45	57300	30	55	93
13:17:46	57613	17	58	89	13:18:46	57314	32	52	95
13:17:47	57562	13	53	85	13:18:47	57322	26	55	85
13:17:48	57562	9	58	96	13:18:48	57322	35	55	93
13:17:49	57487	9	44	93	13:18:49	57376	35	59	91
13:17:50	57487	18	60	141	13:18:50	57437	30	58	128
13:17:51	57370	22	59	126	13:18:51	57437	26	49	128
13:17:52	57253	23	60	111	13:18:52	57451	29	44	132
13:17:53	57302	24	59	122	13:18:53	57451	26	38	97
13:17:54	57302	24	46	115	13:18:54	57492	33	38	94
13:17:55	57339	24	55	126	13:18:55	57492	32	43	128
13:17:56	57338	19	48	152	13:18:56	57520	30	48	123
13:17:57	57338	19	61	143	13:18:57	57520	37	50	127
13:17:58	57217	17	32	146	13:18:58	57536	39	60	94
13:17:59	57217	20	37	165	13:18:59	57575	38	62	96
13:18: 0	57126	25	49	148	13:19: 0	57575	30	46	92
13:18: 1	57126	15	33	168	13:19: 1	57622	27	50	137
13:18: 2	57126	22	53	159	13:19: 2	57622	30	56	143
13:18: 3	56986	25	51	153	13:19: 3	57648	22	49	116
13:18: 4	56986	29	54	166	13:19: 4	57651	25	48	145
13:18: 5	56986	21	44	137	13:19: 5	57651	30	45	133
13:18: 6	57054	15	55	142	13:19: 6	57700	28	46	98
13:18: 7	56973	21	57	122	13:19: 7	57694	26	46	89
13:18: 8	56973	15	61	120	13:19: 8	57701	36	51	85
13:18: 9	57013	17	56	148	13:19: 9	57701	40	52	86
13:18:10	56965	16	57	142	13:19:10	57718	42	55	126
13:18:11	56917	18	55	114	13:19:11	57718	38	48	127
13:18:12	56965	20	44	105	13:19:12	57718	31	53	127
13:18:13	56965	22	52	112	13:19:13	57718	26	42	94
13:18:14	56965	22	54	111	13:19:14	57735	29	33	95
13:18:15	56965	26	52	105	13:19:15	57735	30	23	131
13:18:16	56965	22	57	103	13:19:16	57722	34	24	129
13:18:17	56884	22	56	110	13:19:17	57722	37	33	90
13:18:18	56884	25	56	113	13:19:18	57704	39	40	90
13:18:19	56889	21	44	152	13:19:19	57704	39	41	85
13:18:20	56892	22	42	108	13:19:20	57713	34	48	126
13:18:21	56902	24	47	106	13:19:21	57689	43	54	124
13:18:22	56902	27	51	135	13:19:22	57666	40	47	87
13:18:23	56914	28	52	108	13:19:23	57666	37	47	87
13:18:24	56914	27	57	124	13:19:24	57686	31	49	92
13:18:25	56920	35	56	89	13:19:25	57686	28	46	130
13:18:26	56920	36	56	91	13:19:26	57627	34	40	128
13:18:27	56985	30	68	136	13:19:27	57568	35	37	106
13:18:28	56985	28	58	137	13:19:28	57568	37	43	110
13:18:29	57046	23	48	100	13:19:29	57487	33	36	115
13:18:30	57076	28	39	99	13:19:30	57487	31	40	145
13:18:31	57126	28	35	95	13:19:31	57406	36	43	101
13:18:32	57126	28	36	131	13:19:32	57406	33	40	90
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13:19:36	57503	24	42	87	LINE: RE15	flown EAST	on 83/07/05		
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13:19:38	57504	27	29	128	13:13:58	57920	15	22	134
13:19:39	57504	30	32	130	13:13:59	57920	14	17	113
13:19:40	57473	29	35	130	13:14: 0	57920	18	24	104
13:19:41	57397	24	35	99	13:14: 1	57920	17	20	135
13:19:42	57397	30	41	102	13:14: 2	57877	12	17	119
13:19:43	57388	28	38	109	13:14: 3	57834	10	13	128
13:19:44	57388	22	39	137	13:14: 4	57834	9	14	101
13:19:45	57412	21	34	138	13:14: 5	57855	8	11	103
13:19:46	57451	20	40	105	13:14: 6	57855	5	11	125
13:19:47	57451	20	37	108	13:14: 7	57829	2	0	125
13:19:48	57404	22	36	142	13:14: 8	57803	1	7	134
13:19:49	57389	26	39	142	13:14: 9	57803	8	19	90
13:19:50	57389	26	38	107	13:14:10	57816	12	14	113
13:19:51	57389	24	35	101	13:14:11	57728	12	16	100
13:19:52	57362	22	36	135	13:14:12	57640	10	12	121
13:19:53	57362	20	36	120	13:14:13	57519	13	13	107
13:19:54	57339	22	29	129	13:14:14	57461	10	14	111
13:19:55	57339	26	43	102	13:14:15	57461	11	13	113
13:19:56	57339	25	42	99	13:14:16	57461	11	15	141
13:19:57	57339	22	37	129	13:14:17	57357	12	14	119
13:19:58	57402	27	31	125	13:14:18	57357	13	16	132
13:19:59	57402	29	35	122	13:14:19	57357	13	19	131
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13:20: 1	57407	26	31	90	13:14:21	57288	11	13	93
13:20: 2	57407	26	31	133	13:14:22	57288	12	5	127
13:20: 3	57363	25	32	133	13:14:23	57300	12	7	124
13:20: 4	57363	21	29	98	13:14:24	57300	16	8	86
13:20: 5	57344	22	26	109	13:14:25	57300	11	9	80
13:20: 6	57345	22	28	107	13:14:26	57300	11	6	89
13:20: 7	57345	22	28	144	13:14:27	57318	12	10	88
13:20: 8	57353	25	32	136	13:14:28	57360	7	10	92
13:20: 9	57353	23	33	94	13:14:29	57360	12	12	89
13:20:10	57373	22	26	99	13:14:30	57374	9	11	123
13:20:11	57373	23	28	101	13:14:31	57374	9	18	125
13:20:12	57382	22	25	138	13:14:32	57356	8	18	66
13:20:13	57382	23	29	142	13:14:33	57326	8	9	85
13:20:14	57400	22	26	113	13:14:34	57326	14	7	85
13:20:15	57441	20	27	119	13:14:35	57330	9	14	121
13:20:16	57441	22	26	139	13:14:36	57330	9	18	120
13:20:17	57441	20	24	177	13:14:37	57330	10	15	81
13:20:18	57550	20	38	158	13:14:38	57330	8	15	82
13:20:19	57635	18	24	179	13:14:39	57342	7	9	79
13:20:20	57635	23	21	186	13:14:40	57342	6	10	121
13:20:21	57635	10	18	202	13:14:41	57361	7	11	124
13:20:22	57694	4	24	195	13:14:42	57361	6	9	83
13:20:23	57694	1	29	171	13:14:43	57361	6	13	87
13:20:24	57694	3	28	163	13:14:44	57358	14	4	128
13:20:25	57789	7	32	167	13:14:45	57365	3	6	131
13:20:26	57789	12	17	144	13:14:46	57372	5	10	130
13:20:27	57789	18	19	108	13:14:47	57388	5	11	98
13:20:28	57178	18	13	102	13:14:48	57388	5	12	99
13:20:29	57437	15	13	140	13:14:49	57403	13	15	130
13:20:30	57437	15	12	142	13:14:50	57403	9	15	127
13:20:31	57360	13	12	150	13:14:51	57408	12	15	95
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13:14:56	57442	2	7	119	13:15:56	57684	23	25	119
13:14:57	57442	9	3	77	13:15:57	57684	32	31	119
13:14:58	57462	1	7	79	13:15:58	57686	36	31	118
13:14:59	57462	8	1	119	13:15:59	57688	38	37	81
13:15: 0	57470	8	4	118	13:16: 0	57688	32	32	116
13:15: 1	57471	14	15	77	13:16: 1	57688	24	39	123
13:15: 2	57503	15	14	123	13:16: 2	57747	19	32	89
13:15: 3	57503	17	12	119	13:16: 3	57735	13	26	76
13:15: 4	57515	20	15	120	13:16: 4	57698	27	20	73
13:15: 5	57515	18	18	81	13:16: 5	57698	42	44	79
13:15: 6	57522	15	14	81	13:16: 6	57831	34	44	84
13:15: 7	57515	16	26	81	13:16: 7	57831	25	14	84
13:15: 8	57515	9	12	82	13:16: 8	57831	5	18	81
13:15: 9	57516	5	8	88	13:16: 9	57801	16	39	125
13:15:10	57516	4	7	79	13:16:10	57801	16	44	126
13:15:11	57516	4	11	83	13:16:11	57794	16	41	83
13:15:12	57517	9	11	119	13:16:12	57794	16	26	79
13:15:13	57517	15	15	82	13:16:13	57794	11	19	77
13:15:14	57532	23	23	102	13:16:14	57729	16	20	98
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13:15:16	57523	26	35	92	13:16:16	57708	8	24	118
13:15:17	57523	25	33	119	13:16:17	57708	11	32	77
13:15:18	57493	26	33	116	13:16:18	57708	9	31	86
13:15:19	57493	28	39	72	13:16:19	57699	12	26	119
13:15:20	57488	28	36	75	13:16:20	57699	7	26	84
13:15:21	57507	28	36	79	13:16:21	57701	8	30	88
13:15:22	57507	27	34	80	13:16:22	57712	7	27	90
13:15:23	57522	23	34	122	13:16:23	57712	13	36	103
13:15:24	57522	26	46	78	13:16:24	57663	11	28	109
13:15:25	57525	25	34	80	13:16:25	57640	11	26	105
13:15:26	57492	22	28	78	13:16:26	57640	10	29	99
13:15:27	57492	20	23	118	13:16:27	57640	12	25	89
13:15:28	57447	14	18	120	13:16:28	57578	15	30	124
13:15:29	57447	11	16	76	13:16:29	57578	12	31	94
13:15:30	57447	10	21	76	13:16:30	57578	15	33	82
13:15:31	57387	10	27	121	13:16:31	57569	16	35	81
13:15:32	57387	11	21	92	13:16:32	57570	15	29	110
13:15:33	57397	13	37	80	13:16:33	57570	12	25	88
13:15:34	57397	13	26	126	13:16:34	57566	9	25	128
13:15:35	57432	19	27	87	13:16:35	57566	12	33	135
13:15:36	57432	15	24	86	13:16:36	57526	13	30	95
13:15:37	57467	14	23	129	13:16:37	57480	12	26	95
13:15:38	57467	13	24	129	13:16:38	57480	11	32	132
13:15:39	57472	15	23	91	13:16:39	57437	9	30	130
13:15:40	57476	14	23	88	13:16:40	57437	10	37	117
13:15:41	57476	16	25	126	13:16:41	57443	15	45	94
13:15:42	57512	15	19	127	13:16:42	57437	12	40	135
13:15:43	57512	16	24	84	13:16:43	57439	12	23	138
13:15:44	57536	14	22	82	13:16:44	57439	16	32	89
13:15:45	57547	18	19	84	13:16:45	57430	15	26	87
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13:15:47	57591	13	23	80	13:16:47	57412	13	30	88
13:15:48	57617	14	17	79	13:16:48	57370	15	33	132
13:15:49	57617	16	24	77	13:16:49	57370	10	36	97
13:15:50	57641	19	27	80	13:16:50	57348	7	27	120
13:15:51	57640	14	26	117	13:16:51	57331	13	38	100
13:15:52	57640	13	30	72	13:16:52	57317	10	39	111
13:15:53	57635	12	16	73	13:16:53	57317	12	37	107

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13:16:55	57285	13	30	101	13:10:43	57772	27	44	112
13:16:56	57240	14	29	100	13:10:44	57772	26	51	134
13:16:57	57240	14	29	136	13:10:45	57730	24	43	139
13:16:58	57211	14	29	131	13:10:46	57639	24	50	102
13:16:59	57211	12	33	135	13:10:47	57639	26	49	106
13:17: 0	57167	15	35	99	13:10:48	57539	26	48	141
13:17: 1	57167	13	30	102	13:10:49	57539	26	49	143
13:17: 2	57147	14	38	104	13:10:50	57589	24	54	125
13:17: 3	57147	18	34	99	13:10:51	57463	21	43	116
13:17: 4	57086	14	32	100	13:10:52	57338	25	48	151
13:17: 5	57015	14	32	105	13:10:53	57338	29	52	150
13:17: 6	57015	14	40	142	13:10:54	57338	25	50	134
13:17: 7	56980	12	28	119	13:10:55	57228	26	52	117
13:17: 8	56980	15	36	104	13:10:56	57146	26	45	116
13:17: 9	56942	15	42	131	13:10:57	57146	27	50	143
13:17:10	56900	20	44	95	13:10:58	57052	25	42	146
13:17:11	56891	15	36	115	13:10:59	57052	25	55	112
13:17:12	56884	17	43	152	13:11: 0	57052	24	52	112
13:17:13	56884	17	41	131	13:11: 1	57052	25	50	116
13:17:14	56864	17	44	108	13:11: 2	56919	25	51	149
13:17:15	56858	15	40	122	13:11: 3	56919	25	43	150
13:17:16	56892	12	43	141	13:11: 4	56898	26	51	122
13:17:17	56892	13	38	137	13:11: 5	56891	25	43	123
13:17:18	56971	13	37	101	13:11: 6	56891	26	52	152
13:17:19	57067	11	33	104	13:11: 7	56913	24	55	144
13:17:20	57067	11	37	142	13:11: 8	56913	25	56	149
13:17:21	57171	11	28	131	13:11: 9	56908	27	51	122
13:17:22	57171	11	35	146	13:11:10	56924	26	54	122
13:17:23	57299	14	31	105	13:11:11	56933	23	41	141
13:17:24	57434	14	38	103	13:11:12	56933	25	56	122
13:17:25	57504	11	43	102	13:11:13	56919	27	54	128
13:17:26	57504	15	40	135	13:11:14	56902	25	50	90
13:17:27	57631	10	38	136	13:11:15	56902	27	54	94
13:17:28	57686	14	39	93	13:11:16	56919	25	54	132
13:17:29	57686	10	30	91	13:11:17	56919	25	54	134
13:17:30	57804	11	37	129	13:11:18	56916	26	52	96
13:17:31	57804	8	25	116	13:11:19	56923	26	45	97
13:17:32	57804	7	37	127	13:11:20	56923	24	47	96
13:17:33	57895	10	38	97	13:11:21	56923	25	46	128
13:17:34	57902	6	44	129	13:11:22	56943	25	41	128
13:17:35	57902	3	31	107	13:11:23	56960	27	50	92
13:17:36	57855	9	47	142	13:11:24	56972	26	43	90
13:17:37	57855	12	52	140	13:11:25	56972	26	48	131
13:17:38	57855	20	53	103	13:11:26	57021	25	49	123
13:17:39	57747	20	45	97	13:11:27	57021	23	51	126
13:17:40	0	0	0	0	13:11:28	57045	26	48	94
LINE: RE16	flown WEST	on 83/07/05			13:11:29	57075	28	50	88
13:10:30	57974	20	57	91	13:11:30	57075	30	54	125
13:10:31	57930	24	56	91	13:11:31	57121	28	46	121
13:10:32	57920	29	57	106	13:11:32	57121	29	52	78
13:10:33	57920	30	56	110	13:11:33	57136	28	43	82
13:10:34	57909	29	54	153	13:11:34	57136	28	47	95
13:10:35	57909	27	58	110	13:11:35	57142	31	50	136
13:10:36	57882	26	47	142	13:11:36	57142	28	48	87
13:10:37	57857	26	53	116	13:11:37	57142	29	53	85
13:10:38	57857	25	55	116	13:11:38	57142	27	43	82
13:10:39	57857	22	57	108	13:11:39	57181	25	49	85
13:10:40	57825	23	49	109	13:11:40	57181	24	48	128
13:10:41	57803	26	46	107	13:11:41	57222	24	50	94

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
13:11:42	57222	22	52	96	13:12:42	57615	31	40	141
13:11:43	57222	25	49	94	13:12:43	57565	35	43	145
13:11:44	57273	24	44	134	13:12:44	57565	29	40	115
13:11:45	57273	27	48	131	13:12:45	57539	31	34	120
13:11:46	57285	25	47	127	13:12:46	57545	31	40	159
13:11:47	57314	28	48	92	13:12:47	57551	27	37	136
13:11:48	57314	29	52	88	13:12:48	57563	27	41	109
13:11:49	57350	29	52	94	13:12:49	57563	24	45	106
13:11:50	57350	29	50	100	13:12:50	57606	23	38	138
13:11:51	57350	26	57	95	13:12:51	57606	24	36	136
13:11:52	57415	29	51	95	13:12:52	57570	28	36	97
13:11:53	57382	32	54	137	13:12:53	57570	33	37	95
13:11:54	57438	35	50	122	13:12:54	57553	30	43	96
13:11:55	57495	35	51	94	13:12:55	57553	25	37	135
13:11:56	57495	33	45	132	13:12:56	57531	26	34	136
13:11:57	57495	31	53	97	13:12:57	57531	25	34	120
13:11:58	57553	33	54	97	13:12:58	57501	27	33	132
13:11:59	57553	30	49	132	13:12:59	57466	26	36	113
13:12: 0	57575	30	50	130	13:13: 0	57453	26	29	100
13:12: 1	57575	29	50	99	13:13: 1	57440	26	34	137
13:12: 2	57599	31	39	98	13:13: 2	57440	25	36	98
13:12: 3	57592	34	52	102	13:13: 3	57426	28	33	101
13:12: 4	57587	36	51	135	13:13: 4	57426	27	32	96
13:12: 5	57587	27	45	103	13:13: 5	57382	27	36	135
13:12: 6	57601	34	45	105	13:13: 6	57382	30	33	138
13:12: 7	57608	36	50	141	13:13: 7	57347	25	28	103
13:12: 8	57608	36	54	131	13:13: 8	57364	30	30	111
13:12: 9	57628	36	54	132	13:13: 9	57364	30	27	145
13:12:10	57628	33	46	136	13:13:10	57357	29	30	142
13:12:11	57682	32	49	111	13:13:11	57350	28	36	142
13:12:12	57705	28	39	140	13:13:12	57350	30	30	109
13:12:13	57705	29	44	130	13:13:13	57350	28	32	114
13:12:14	57693	30	51	108	13:13:14	57367	25	30	107
13:12:15	57693	31	36	140	13:13:15	57367	25	27	137
13:12:16	57705	32	40	103	13:13:16	57383	26	30	128
13:12:17	57717	35	47	106	13:13:17	57388	25	27	104
13:12:18	57691	34	46	138	13:13:18	57388	24	27	102
13:12:19	57691	35	49	98	13:13:19	57394	25	26	101
13:12:20	57688	36	43	96	13:13:20	57393	23	25	99
13:12:21	57683	35	46	105	13:13:21	57402	23	23	95
13:12:22	57684	32	41	110	13:13:22	57387	24	30	91
13:12:23	57684	35	47	115	13:13:23	57387	25	27	100
13:12:24	57683	36	44	135	13:13:24	57372	25	27	137
13:12:25	57683	36	42	104	13:13:25	57372	24	27	136
13:12:26	57683	33	41	107	13:13:26	57358	25	26	96
13:12:27	57669	35	39	105	13:13:27	57342	24	30	96
13:12:28	57656	32	41	135	13:13:28	57342	24	31	136
13:12:29	57656	38	45	94	13:13:29	57342	22	21	137
13:12:30	57652	37	46	91	13:13:30	57323	22	27	100
13:12:31	57652	35	41	131	13:13:31	57323	24	23	100
13:12:32	57652	35	41	128	13:13:32	57323	24	26	103
13:12:33	57652	36	38	124	13:13:33	57309	24	29	128
13:12:34	57652	37	41	125	13:13:34	57309	24	24	103
13:12:35	57652	31	39	85	13:13:35	57300	25	22	131
13:12:36	57695	36	42	125	13:13:36	57300	26	24	149
13:12:37	57695	36	38	127	13:13:37	57273	27	26	126
13:12:38	57687	36	35	85	13:13:38	57273	24	24	161
13:12:39	57687	34	34	89	13:13:39	57262	26	23	131
13:12:40	57687	34	35	101	13:13:40	57262	26	23	127
13:12:41	57615	31	36	104	13:13:41	57267	26	30	118



TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13: 5:59	57327	24	24	131	13: 6:59	57511	16	16	94
13: 6: 0	57327	25	29	127	13: 7: 0	57577	11	15	95
13: 6: 1	57327	27	23	126	13: 7: 1	57577	16	20	95
13: 6: 2	57327	27	24	109	13: 7: 2	57605	23	23	92
13: 6: 3	57306	28	23	113	13: 7: 3	57649	30	29	92
13: 6: 4	57306	25	25	143	13: 7: 4	57649	27	31	93
13: 6: 5	57292	28	22	142	13: 7: 5	57649	24	28	132
13: 6: 6	57292	25	19	124	13: 7: 6	57666	18	18	130
13: 6: 7	57283	21	22	123	13: 7: 7	57666	15	15	88
13: 6: 8	57283	17	16	152	13: 7: 8	57625	12	19	88
13: 6: 9	57284	13	14	157	13: 7: 9	57625	12	26	87
13: 6:10	57284	20	12	125	13: 7:10	57662	13	26	126
13: 6:11	57284	11	11	132	13: 7:11	57662	17	22	106
13: 6:12	57297	13	9	138	13: 7:12	57662	19	20	81
13: 6:13	57290	12	13	161	13: 7:13	57662	20	22	89
13: 6:14	57290	11	13	124	13: 7:14	57688	20	26	80
13: 6:15	57358	12	17	148	13: 7:15	57698	19	26	116
13: 6:16	57382	17	20	130	13: 7:16	57698	18	30	117
13: 6:17	57382	15	22	130	13: 7:17	57716	15	27	76
13: 6:18	57378	19	20	149	13: 7:18	57725	12	23	71
13: 6:19	57378	11	15	113	13: 7:19	57725	15	17	107
13: 6:20	57351	10	10	110	13: 7:20	57745	15	17	71
13: 6:21	57359	10	10	104	13: 7:21	57745	14	24	94
13: 6:22	57359	13	10	134	13: 7:22	57729	11	15	69
13: 6:23	57359	13	16	133	13: 7:23	57690	14	14	73
13: 6:24	57393	13	17	128	13: 7:24	57690	13	18	113
13: 6:25	57398	11	13	94	13: 7:25	57658	13	22	74
13: 6:26	57406	10	14	97	13: 7:26	57658	12	18	106
13: 6:27	57406	17	16	128	13: 7:27	57676	15	11	69
13: 6:28	57419	14	20	131	13: 7:28	57676	22	16	72
13: 6:29	57419	12	20	130	13: 7:29	57704	29	25	70
13: 6:30	57419	10	16	107	13: 7:30	57704	27	30	107
13: 6:31	57397	10	11	132	13: 7:31	57704	36	32	111
13: 6:32	57397	10	10	125	13: 7:32	57690	27	33	76
13: 6:33	57397	13	13	129	13: 7:33	57690	33	37	77
13: 6:34	57397	13	13	131	13: 7:34	57677	27	48	117
13: 6:35	57397	17	16	95	13: 7:35	57677	20	29	118
13: 6:36	57387	15	16	135	13: 7:36	57652	18	28	76
13: 6:37	57387	13	14	136	13: 7:37	57652	21	24	85
13: 6:38	57387	12	14	135	13: 7:38	57652	12	17	81
13: 6:39	57387	17	11	103	13: 7:39	57651	15	18	82
13: 6:40	57401	21	14	107	13: 7:40	57651	28	32	94
13: 6:41	57401	21	21	107	13: 7:41	57713	34	35	122
13: 6:42	57425	19	24	138	13: 7:42	57713	28	36	115
13: 6:43	57425	15	13	136	13: 7:43	57713	30	35	120
13: 6:44	57403	15	12	104	13: 7:44	57732	28	32	81
13: 6:45	57413	13	20	103	13: 7:45	57732	21	27	113
13: 6:46	57413	15	24	133	13: 7:46	57732	15	23	85
13: 6:47	57456	10	22	97	13: 7:47	57696	9	15	82
13: 6:48	57466	11	17	97	13: 7:48	57697	13	20	121
13: 6:49	57466	14	17	97	13: 7:49	57697	12	25	116
13: 6:50	57474	17	14	89	13: 7:50	57693	16	31	78
13: 6:51	57474	17	21	94	13: 7:51	57695	16	32	81
13: 6:52	57485	19	17	94	13: 7:52	57695	14	30	121
13: 6:53	57493	17	18	91	13: 7:53	57695	13	31	121
13: 6:54	57495	14	21	92	13: 7:54	57695	13	26	119
13: 6:55	57495	17	17	124	13: 7:55	57707	13	26	79
13: 6:56	57488	13	17	100	13: 7:56	57707	10	23	77

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13: 7:59	57743	10	17	120	13: 8:59	56987	15	33	147
13: 8: 0	57749	11	22	84	13: 9: 0	56987	14	35	152
13: 8: 1	57749	10	20	85	13: 9: 1	56987	14	37	130
13: 8: 2	57758	13	23	121	13: 9: 2	56987	14	35	132
13: 8: 3	57758	11	24	84	13: 9: 3	56915	17	29	133
13: 8: 4	57758	13	25	78	13: 9: 4	56915	14	35	155
13: 8: 5	57758	13	29	108	13: 9: 5	56907	13	27	155
13: 8: 6	57739	13	30	83	13: 9: 6	56913	16	36	127
13: 8: 7	57739	12	28	119	13: 9: 7	56914	13	35	136
13: 8: 8	57711	10	21	63	13: 9: 8	56914	12	28	155
13: 8: 9	57704	13	28	88	13: 9: 9	56959	10	32	153
13: 8:10	57704	20	30	76	13: 9:10	56959	16	37	109
13: 8:11	57672	19	33	119	13: 9:11	56960	10	40	107
13: 8:12	57646	19	30	116	13: 9:12	56960	14	35	113
13: 8:13	57646	17	27	123	13: 9:13	56946	19	37	144
13: 8:14	57616	14	25	128	13: 9:14	56958	14	37	110
13: 8:15	57595	18	27	131	13: 9:15	56958	12	38	110
13: 8:16	57595	13	28	128	13: 9:16	56958	13	41	118
13: 8:17	57586	13	27	90	13: 9:17	56955	13	45	116
13: 8:18	57586	12	26	83	13: 9:18	56955	14	37	126
13: 8:19	57586	16	28	86	13: 9:19	56948	16	39	106
13: 8:20	57586	12	20	87	13: 9:20	56948	15	42	107
13: 8:21	57598	15	32	124	13: 9:21	56948	16	40	113
13: 8:22	57598	15	30	82	13: 9:22	56957	15	36	113
13: 8:23	57598	13	20	119	13: 9:23	56950	15	56	143
13: 8:24	57598	13	24	86	13: 9:24	56960	16	42	137
13: 8:25	57579	11	26	88	13: 9:25	56976	16	42	104
13: 8:26	57579	11	31	115	13: 9:26	56976	16	34	101
13: 8:27	57563	11	28	124	13: 9:27	57001	18	44	135
13: 8:28	57540	12	31	86	13: 9:28	57001	15	33	134
13: 8:29	57540	11	28	85	13: 9:29	57040	15	41	131
13: 8:30	57534	16	28	124	13: 9:30	57092	14	44	98
13: 8:31	57534	15	29	108	13: 9:31	57092	10	35	94
13: 8:32	57507	13	28	130	13: 9:32	57180	15	41	128
13: 8:33	57472	17	25	87	13: 9:33	57180	14	33	127
13: 8:34	57472	17	30	127	13: 9:34	57267	16	36	85
13: 8:35	57426	16	28	128	13: 9:35	57389	16	36	84
13: 8:36	57426	17	31	92	13: 9:36	57389	15	46	83
13: 8:37	57381	17	28	96	13: 9:37	57389	18	42	123
13: 8:38	57352	15	31	94	13: 9:38	57591	13	31	124
13: 8:39	57333	20	31	135	13: 9:39	57591	14	36	124
13: 8:40	57333	15	25	139	13: 9:40	57591	18	38	121
13: 8:41	57319	14	31	100	13: 9:41	57741	12	38	128
13: 8:42	57319	14	26	102	13: 9:42	57741	10	29	125
13: 8:43	57319	14	28	106	13: 9:43	57772	10	40	84
13: 8:44	57235	13	23	104	13: 9:44	57798	9	27	84
13: 8:45	57235	11	30	124	13: 9:45	57798	12	33	89
13: 8:46	57196	14	33	132	13: 9:46	57833	11	37	90
13: 8:47	57166	12	32	104	13: 9:47	57833	14	39	129
13: 8:48	57166	13	35	103	13: 9:48	57899	14	42	91
13: 8:49	57149	13	32	139	13: 9:49	57899	14	43	91
13: 8:50	57149	13	28	136	13: 9:50	58024	16	42	95
13: 8:51	57149	12	31	107	13: 9:51	58024	10	37	96
13: 8:52	57149	13	22	110	13: 9:52	58112	10	39	125
13: 8:53	57149	14	31	107	13: 9:53	58112	7	40	126
13: 8:54	57108	12	29	107	13: 9:54	58112	11	39	83
13: 8:55	57108	16	38	140	13: 9:55	58267	12	36	82
13: 8:56	57074	16	36	134	13: 9:56	58267	7	35	123

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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13: 9:59	58276	18	49	75	13: 3:46	58052	31	57	143
13:10: 0	58276	17	54	78	13: 3:47	57965	30	42	148
13:10: 1	58276	15	49	80	13: 3:48	57965	31	57	115
13:10: 2	58272	14	43	120	13: 3:49	57902	31	62	114
13:10: 3	58262	11	46	88	13: 3:50	57839	31	58	120
13:10: 4	58262	10	36	87	13: 3:51	57902	32	56	134
13:10: 5	58248	9	38	86	13: 3:52	57807	31	67	146
13:10: 6	58232	10	36	126	13: 3:53	57712	32	48	122
13:10: 7	58232	3	36	124	13: 3:54	57578	30	54	127
13:10: 8	58240	9	34	89	13: 3:55	57578	31	61	134
13:10: 9	58240	5	38	89	13: 3:56	57422	31	58	166
13:10:10	58245	5	35	89	13: 3:57	57422	31	56	156
13:10:11	58245	10	34	127	13: 3:58	57299	29	45	168
13:10:12	58245	8	38	85	13: 3:59	57223	29	54	149
13:10:13	58245	9	35	81	13: 4: 0	57223	29	52	149
13:10:14	58273	10	38	82	13: 4: 1	57196	29	49	168
13:10:15	58274	7	42	122	13: 4: 2	57196	26	48	164
13:10:16	58274	2	29	121	13: 4: 3	57179	27	49	159
13:10:17	58275	14	53	85	13: 4: 4	57179	27	52	144
13:10:18	58275	20	47	88	13: 4: 5	57154	24	50	162
13:10:19	58300	30	63	87	13: 4: 6	57154	26	47	159
13:10:20	58300	23	63	95	13: 4: 7	57154	27	41	159
13:10:21	58284	26	60	85	13: 4: 8	57073	25	48	138
13:10:22	58250	20	46	84	13: 4: 9	57073	25	39	140
13:10:23	58250	19	53	85	13: 4:10	57045	25	47	142
13:10:24	58035	17	56	127	13: 4:11	57041	26	45	154
13:10:25	58148	22	55	113	13: 4:12	57041	24	35	143
13:10:26	58148	27	46	129	13: 4:13	57041	23	44	147
13:10:27	58148	27	61	88	13: 4:14	57041	23	45	150
13:10:28	58148	23	47	84	13: 4:15	57022	27	45	176
13:10:29	57974	20	50	129	13: 4:16	57022	27	47	179
LINE: RE18	f loun WEST	on 83/07/05			13: 4:17	56992	25	45	171
13: 3:18	58236	22	56	75	13: 4:18	56982	30	45	152
13: 3:19	58236	21	61	116	13: 4:19	56982	30	46	136
13: 3:20	58502	36	61	114	13: 4:20	56998	28	46	148
13: 3:21	58527	42	66	116	13: 4:21	56998	27	42	146
13: 3:22	58527	32	52	82	13: 4:22	57026	27	45	120
13: 3:23	58411	32	54	122	13: 4:23	57051	28	46	122
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13: 3:25	58411	28	44	90	13: 4:25	57090	26	47	114
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13: 3:28	58245	27	58	133	13: 4:28	57116	25	41	133
13: 3:29	58235	33	45	136	13: 4:29	57176	27	41	153
13: 3:30	58235	31	48	95	13: 4:30	57237	27	43	153
13: 3:31	58235	33	48	96	13: 4:31	57237	27	43	115
13: 3:32	58195	31	56	136	13: 4:32	57237	27	42	104
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13: 3:35	58225	26	55	108	13: 4:35	57443	30	45	129
13: 3:36	58225	29	57	144	13: 4:36	57522	27	47	90
13: 3:37	58171	29	56	133	13: 4:37	57534	27	48	93
13: 3:38	58170	28	53	109	13: 4:38	57534	25	48	127
13: 3:39	58170	28	54	111	13: 4:39	57557	27	46	129
13: 3:40	58160	29	46	108	13: 4:40	57557	29	47	91
13: 3:41	58149	29	55	116	13: 4:41	57546	29	47	95
13: 3:42	58149	28	48	105	13: 4:42	57539	27	34	97
13: 3:43	58139	28	54	105	13: 4:43	57516	26	42	101

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13: 4:46	57504	24	43	108	13: 5:46	57463	26	26	146
13: 4:47	57517	28	37	110	13: 5:47	57462	26	28	116
13: 4:48	57517	27	44	135	13: 5:48	57453	27	32	112
13: 4:49	57551	26	38	136	13: 5:49	57453	26	28	132
13: 4:50	57551	28	41	103	13: 5:50	57453	24	28	136
13: 4:51	57551	30	39	102	13: 5:51	57454	24	25	99
13: 4:52	57621	28	37	98	13: 5:52	57457	24	26	105
13: 4:53	57621	25	36	130	13: 5:53	57451	21	25	150
13: 4:54	57657	29	39	106	13: 5:54	57451	18	23	127
13: 4:55	57696	28	42	98	13: 5:55	57411	21	26	154
13: 4:56	57718	28	46	106	13: 5:56	57399	20	25	118
13: 4:57	57718	30	37	93	13: 5:57	57362	21	23	130
13: 4:58	57718	28	47	115	13: 5:58	57362	24	23	153
13: 4:59	57718	32	43	125	13: 5:59	57327	24	24	131
13: 5: 0	57693	31	44	97	13: 6: 0	57327	25	29	127
13: 5: 1	57693	30	41	97	13: 6: 1	57327	27	23	126
13: 5: 2	57624	29	42	131	13: 6: 2	57327	27	24	109
13: 5: 3	57624	30	36	134	13: 6: 3	57306	28	23	113
13: 5: 4	57565	29	41	101	13: 6: 4	57306	25	25	143
13: 5: 5	57520	32	40	100	13: 6: 5	57292	28	22	142
13: 5: 6	57516	32	41	136	13: 6: 6	57292	25	19	124
13: 5: 7	57516	31	42	139	13: 6: 7	57283	21	22	123
13: 5: 8	57464	32	38	136	13: 6: 8	57283	17	16	152
13: 5: 9	57464	32	40	103	13: 6: 9	57284	13	14	157
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13: 5:11	57449	28	44	132	13: 6:11	57284	11	11	132
13: 5:12	57449	31	47	133	13: 6:12	57297	13	9	138
13: 5:13	57456	30	38	136	13: 6:13	57290	12	13	161
13: 5:14	57457	26	39	103	LINE: RE19	flown EAST	on 83/07/05		
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13: 5:17	57459	36	40	130	12:59:54	57434	15	20	130
13: 5:18	57452	34	37	108	12:59:55	57388	6	21	131
13: 5:19	57555	30	37	111	12:59:56	57388	5	20	100
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13: 5:21	57571	33	40	146	12:59:58	57329	5	17	105
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13: 5:27	57486	33	32	144	13: 0: 4	57371	7	12	170
13: 5:28	57486	32	32	117	13: 0: 5	57413	6	16	165
13: 5:29	57486	33	30	116	13: 0: 6	57413	11	16	137
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13: 5:31	57437	33	37	145	13: 0: 8	57466	8	17	123
13: 5:32	57429	33	36	107	13: 0: 9	57475	19	14	141
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13: 5:34	57425	32	33	122	13: 0:11	57489	12	19	121
13: 5:35	57432	31	34	117	13: 0:12	57506	17	22	102
13: 5:36	57432	31	34	124	13: 0:13	57506	15	23	100
13: 5:37	57432	30	36	113	13: 0:14	57517	18	16	117
13: 5:38	57432	29	30	117	13: 0:15	57517	11	12	93
13: 5:39	57424	26	31	148	13: 0:16	57503	14	14	93
13: 5:40	57424	28	30	151	13: 0:17	57503	15	12	95
13: 5:41	57434	28	28	146	13: 0:18	57488	13	13	91
13: 5:42	57445	25	29	119	13: 0:19	57488	15	18	118
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13: 0:23	57477	13	15	126	13: 1:23	57640	12	18	97
13: 0:24	57477	10	19	125	13: 1:24	57609	11	23	91
13: 0:25	57466	12	17	130	13: 1:25	57593	10	22	98
13: 0:26	57467	11	21	97	13: 1:26	57616	11	22	89
13: 0:27	57467	17	21	100	13: 1:27	57586	12	27	129
13: 0:28	57476	15	26	99	13: 1:28	57557	17	32	97
13: 0:29	57476	15	25	127	13: 1:29	57557	16	30	96
13: 0:30	57485	17	26	95	13: 1:30	57476	18	32	130
13: 0:31	57484	18	29	94	13: 1:31	57476	18	24	133
13: 0:32	57484	20	25	135	13: 1:32	57516	17	17	97
13: 0:33	57473	19	24	134	13: 1:33	57450	20	20	134
13: 0:34	57473	17	17	94	13: 1:34	57384	14	26	132
13: 0:35	57451	16	15	120	13: 1:35	57384	15	27	129
13: 0:36	57428	16	12	97	13: 1:36	57384	15	26	91
13: 0:37	57428	14	15	95	13: 1:37	57384	14	21	91
13: 0:38	57428	19	16	129	13: 1:38	57384	15	27	96
13: 0:39	57401	16	17	127	13: 1:39	57438	20	35	129
13: 0:40	57417	15	16	92	13: 1:40	57438	19	28	130
13: 0:41	57417	13	11	96	13: 1:41	57390	18	23	103
13: 0:42	57474	9	16	90	13: 1:42	57382	17	27	112
13: 0:43	57474	12	20	122	13: 1:43	57382	14	23	113
13: 0:44	57538	11	17	122	13: 1:44	57376	17	26	143
13: 0:45	57557	14	17	88	13: 1:45	57376	16	29	142
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13: 0:47	57539	11	15	123	13: 1:47	57298	19	32	118
13: 0:48	57539	12	15	122	13: 1:48	57298	17	31	119
13: 0:49	57539	12	15	85	13: 1:49	57298	19	30	146
13: 0:50	57539	10	13	84	13: 1:50	57199	15	30	133
13: 0:51	57455	15	14	83	13: 1:51	57132	17	30	100
13: 0:52	57455	13	18	117	13: 1:52	57132	16	33	105
13: 0:53	57426	12	22	116	13: 1:53	57102	14	30	134
13: 0:54	57426	14	21	82	13: 1:54	57102	15	29	130
13: 0:55	57426	14	20	82	13: 1:55	57095	15	28	99
13: 0:56	57423	13	30	84	13: 1:56	57091	13	24	94
13: 0:57	57423	14	21	120	13: 1:57	57091	15	33	122
13: 0:58	57433	9	17	91	13: 1:58	57088	14	36	100
13: 0:59	57433	9	16	89	13: 1:59	57088	13	36	126
13: 1: 0	57433	9	16	88	13: 1:60	57095	12	35	128
13: 1: 1	57439	15	23	101	13: 2: 0	57115	8	30	94
13: 1: 2	57439	13	20	126	13: 2: 1	57118	4	17	101
13: 1: 3	57439	13	17	101	13: 2: 2	57118	7	36	100
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13: 1: 5	57492	14	28	98	13: 2: 4	57142	0	29	122
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13: 1: 8	57510	14	17	94	13: 2: 7	57142	2	18	93
13: 1: 9	57559	12	18	99	13: 2: 8	57147	12	27	128
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13: 1:11	57604	12	22	97	13: 2:10	57161	9	38	96
13: 1:12	57635	13	22	95	13: 2:11	57130	5	27	93
13: 1:13	57666	11	22	121	13: 2:12	57130	12	40	126
13: 1:14	57666	15	19	96	13: 2:13	57067	8	35	97
13: 1:15	57700	10	24	125	13: 2:14	57067	10	33	99
13: 1:16	57700	14	30	125	13: 2:16	57047	11	39	133
13: 1:17	57716	18	31	123	13: 2:17	57047	8	37	135
13: 1:18	57688	16	25	87	13: 2:18	57068	4	29	95
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13: 2:23	57260	8	31	132	12:56:43	58354	64	93	99
13: 2:24	57260	16	42	99	12:56:44	58354	74	64	100
13: 2:25	57428	11	26	101	12:56:45	58354	80	62	124
13: 2:26	57428	8	41	137	12:56:46	58354	19	64	121
13: 2:27	57491	10	43	93	12:56:47	58354	26	65	114
13: 2:28	57491	10	44	94	12:56:48	58354	25	66	85
13: 2:29	57556	12	28	90	12:56:49	58354	24	50	87
13: 2:30	57607	3	38	89	12:56:50	58354	25	65	116
13: 2:31	57607	13	34	128	12:56:51	58518	23	58	81
13: 2:32	57663	14	44	99	12:56:52	58682	23	47	83
13: 2:33	57663	14	44	97	12:56:53	58682	24	67	93
13: 2:34	57663	12	39	102	12:56:54	58771	25	69	81
13: 2:35	57735	9	30	108	12:56:55	58771	26	66	108
13: 2:36	57735	8	41	108	12:56:56	58726	25	67	70
13: 2:37	57752	11	40	131	12:56:57	58726	25	55	89
13: 2:38	57752	8	41	100	12:56:58	58775	25	66	73
13: 2:39	57752	10	41	106	12:56:59	58824	31	66	75
13: 2:40	57784	7	25	121	12:57: 0	58824	24	66	112
13: 2:41	57784	9	40	101	12:57: 1	58670	22	51	116
13: 2:42	57835	11	40	126	12:57: 2	58493	20	64	78
13: 2:43	57871	13	50	130	12:57: 3	58443	21	61	79
13: 2:44	57959	16	48	94	12:57: 4	58443	19	61	89
13: 2:45	57959	18	44	132	12:57: 5	58387	18	59	114
13: 2:46	58054	13	41	135	12:57: 6	58387	16	64	91
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13: 2:49	58121	10	42	136	12:57: 9	58263	17	54	131
13: 2:50	58121	10	27	135	12:57:10	58140	19	61	98
13: 2:51	58091	11	37	128	12:57:11	58140	17	47	128
13: 2:52	58091	12	38	95	12:57:12	58140	18	59	100
13: 2:53	58091	12	32	95	12:57:13	58062	14	57	98
13: 2:54	58007	17	42	131	12:57:14	58062	16	51	126
13: 2:55	58007	15	43	111	12:57:15	58083	14	50	124
13: 2:56	58007	15	39	100	12:57:16	58095	13	55	110
13: 2:57	57945	12	39	90	12:57:17	58094	18	57	102
13: 2:58	57917	11	36	119	12:57:18	58094	16	61	121
13: 2:59	57917	11	38	93	12:57:19	58105	14	59	124
13: 3: 0	57925	11	36	123	12:57:20	58105	14	62	100
13: 3: 1	57925	10	32	125	12:57:21	58073	12	37	101
13: 3: 2	57966	10	32	86	12:57:22	58024	13	56	130
13: 3: 3	57995	18	37	91	12:57:23	58024	12	55	127
13: 3: 4	57995	19	38	93	12:57:24	57990	12	55	91
13: 3: 5	58045	14	35	120	12:57:25	57990	11	45	117
13: 3: 6	58045	5	27	128	12:57:26	57990	10	48	89
13: 3: 7	58068	8	43	96	12:57:27	58070	14	54	92
13: 3: 8	58045	31	57	96	12:57:28	58070	10	61	122
13: 3: 9	58049	44	58	129	12:57:29	58073	9	58	129
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13: 3:11	58063	20	40	86	12:57:31	57994	12	63	98
13: 3:12	58022	13	56	91	12:57:32	57994	15	63	132
13: 3:13	58012	19	46	132	12:57:33	58029	10	55	117
13: 3:14	58012	25	42	126	12:57:34	58029	12	51	126
13: 3:15	58048	29	50	85	12:57:35	58029	10	51	126
13: 3:16	58048	31	45	106	12:57:36	58029	9	53	101
13: 3:17	58048	28	50	81	12:57:37	58183	8	49	102
13: 3:18	0	0	0	0	12:57:38	58218	8	48	103
13: 3:19	0	0	0	0	12:57:39	58218	11	57	130
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12:57:43	58353	9	60	129	12:58:43	57358	8	43	168
12:57:44	58287	8	43	126	12:58:44	57372	21	42	174
12:57:45	58287	12	53	94	12:58:45	57372	7	44	176
12:57:46	58287	9	54	126	12:58:46	57350	7	44	166
12:57:47	58208	8	58	124	12:58:47	57345	8	43	163
12:57:48	58208	7	40	123	12:58:48	57345	8	39	170
12:57:49	58245	8	55	91	12:58:49	57329	7	51	164
12:57:50	58223	7	34	91	12:58:50	57326	7	40	164
12:57:51	58223	15	64	93	12:58:51	57324	7	39	142
12:57:52	58223	11	62	130	12:58:52	57324	7	35	132
12:57:53	58074	8	36	130	12:58:53	57324	7	42	117
12:57:54	58035	8	56	98	12:58:54	57349	11	40	141
12:57:55	57976	9	58	102	12:58:55	57349	6	40	137
12:57:56	57976	13	56	135	12:58:56	57369	13	40	110
12:57:57	57969	8	58	133	12:58:57	57394	5	44	140
12:57:58	57969	11	62	102	12:58:58	57394	5	29	120
12:57:59	57972	8	58	105	12:58:59	57402	10	40	142
12:58:00	57967	15	56	107	12:59:00	57402	7	40	140
12:58:01	57967	11	74	134	12:59:01	57402	13	40	108
12:58:02	57941	9	64	107	12:59:02	57406	8	39	136
12:58:03	57916	10	33	99	12:59:03	57406	7	36	137
12:58:04	57916	10	58	100	12:59:04	57407	7	41	105
12:58:05	57763	10	53	99	12:59:05	57407	7	34	100
12:58:06	57763	9	53	135	12:59:06	57407	7	37	105
12:58:07	57763	7	31	133	12:59:07	57407	6	31	105
12:58:08	57548	7	53	104	12:59:08	57419	9	41	133
12:58:09	57442	7	54	104	12:59:09	57431	13	39	129
12:58:10	57442	8	57	137	12:59:10	57441	7	38	103
12:58:11	57265	7	46	132	12:59:11	57448	6	32	108
12:58:12	57265	7	57	95	12:59:12	57448	8	23	109
12:58:13	57117	6	41	96	12:59:13	57458	8	32	106
12:58:14	57063	10	56	103	12:59:14	57458	14	36	107
12:58:15	57073	6	56	139	12:59:15	57446	9	27	105
12:58:16	57073	6	53	116	12:59:16	57445	8	36	107
12:58:17	57096	7	45	119	12:59:17	57445	14	34	142
12:58:18	57143	7	36	123	12:59:18	57441	8	38	114
12:58:19	57172	7	51	129	12:59:19	57441	7	35	113
12:58:20	57172	5	36	130	12:59:20	57451	8	39	116
12:58:21	57211	16	44	122	12:59:21	57451	17	38	138
12:58:22	57211	7	33	119	12:59:22	57450	9	31	141
12:58:23	57211	7	50	125	12:59:23	57450	6	22	141
12:58:24	57257	7	49	126	12:59:24	57434	7	31	119
12:58:25	57261	7	47	149	12:59:25	57424	14	31	115
12:58:26	57261	6	49	149	12:59:26	57424	9	30	109
12:58:27	57247	7	50	127	12:59:27	57426	8	33	144
12:58:28	57289	7	46	130	12:59:28	57426	7	27	142
12:58:29	57289	8	43	157	12:59:29	57455	6	33	109
12:58:30	57260	7	40	159	12:59:30	57473	14	29	105
12:58:31	57260	6	46	148	12:59:31	57473	7	30	129
12:58:32	57290	14	45	139	12:59:32	57473	7	31	119
12:58:33	57296	8	49	165	12:59:33	57507	8	16	96
12:58:34	57296	7	48	165	12:59:34	57505	7	28	97
12:58:35	57330	7	46	156	12:59:35	57503	14	27	100
12:58:36	57330	7	38	160	12:59:36	57503	8	29	131
12:58:37	57358	7	43	139	12:59:37	57505	7	27	129
12:58:38	57355	6	32	144	12:59:38	57505	7	35	130
12:58:39	57355	12	44	167	12:59:39	57514	7	29	103
12:58:40	57367	12	44	167	12:59:40	57514	7	28	109

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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12:59:42	57525	5	26	104	12:53:29	57510	18	5	81
12:59:43	57521	6	20	131	12:53:30	57510	18	5	81
12:59:44	57522	10	25	116	12:53:31	57476	18	3	115
12:59:45	57522	6	27	135	12:53:32	57476	16	4	79
12:59:46	57497	6	25	144	12:53:33	57447	17	5	77
12:59:47	57497	5	21	150	12:53:34	57447	17	1	82
12:59:48	57451	5	31	146	12:53:35	57447	13	8	76
12:59:49	57443	6	15	141	12:53:36	57403	15	11	84
12:59:50	57434	7	26	133	12:53:37	57391	15	1	75
12:59:51	57434	6	24	124	12:53:38	57375	14	8	85
12:59:52	57434	11	21	101	12:53:39	57375	18	7	81
12:59:53	57434	7	23	97	12:53:40	57359	15	3	104
12:59:54	57434	15	20	130	12:53:41	57359	15	6	110
12:59:55	57388	6	21	131	12:53:42	57348	15	3	74
12:59:56	57388	5	20	100	12:53:43	57348	16	2	75
12:59:57	57358	3	13	132	12:53:44	57357	18	4	115
12:59:58	57329	5	17	105	12:53:45	57357	17	7	97
12:59:59	57329	1	11	116	12:53:46	57362	18	3	86
13: 0: 0	57342	1	9	150	12:53:47	57362	18	12	114
13: 0: 1	57342	1	9	126	12:53:48	57368	16	10	89
13: 0: 2	57351	1	11	145	12:53:49	57368	15	10	89
13: 0: 3	57371	1	9	144	12:53:50	57368	18	2	92
13: 0: 4	57371	7	12	170	12:53:51	57372	16	1	117
13: 0: 5	57413	6	16	165	12:53:52	57372	13	1	107
13: 0: 6	57413	11	16	137	12:53:53	57372	18	2	84
13: 0: 7	57466	8	16	130	12:53:54	57363	14	5	93
13: 0: 8	0	0	0	0	12:53:55	57363	13	8	122
LINE: RE21	flown EAST	on 83/07/05			12:53:56	57350	17	6	87
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12:52:59	57597	23	7	145	12:53:59	57320	15	26	94
12:53: 0	57597	22	6	109	12:54: 0	57320	13	33	123
12:53: 1	57597	20	10	110	12:54: 1	57317	13	43	82
12:53: 2	57641	20	11	119	12:54: 2	57332	13	30	83
12:53: 3	57641	19	9	138	12:54: 3	57332	14	35	116
12:53: 4	57643	17	23	100	12:54: 4	57349	13	29	105
12:53: 5	57670	17	10	95	12:54: 5	57345	17	30	114
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12:53: 7	57701	17	5	121	12:54: 7	57345	17	37	91
12:53: 8	57701	15	6	117	12:54: 8	57296	18	36	118
12:53: 9	57714	16	10	82	12:54: 9	57296	10	22	116
12:53:10	57722	16	5	92	12:54:10	57307	9	26	100
12:53:11	57722	17	12	94	12:54:11	57307	13	30	88
12:53:12	57752	15	2	87	12:54:12	57307	12	33	108
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12:53:14	57773	16	17	82	12:54:14	57336	17	39	124
12:53:15	57774	17	9	85	12:54:15	57350	16	36	89
12:53:16	57774	16	8	106	12:54:16	57358	16	39	91
12:53:17	57764	17	5	105	12:54:17	57358	17	40	99
12:53:18	57751	17	5	83	12:54:18	57370	16	45	94
12:53:19	57713	17	4	108	12:54:19	57370	17	51	118
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12:53:21	57673	16	11	94	12:54:21	57393	16	43	90
12:53:22	57673	18	4	114	12:54:22	57393	13	52	92
12:53:23	57629	17	6	84	12:54:23	57395	17	49	121
12:53:24	57586	17	7	84	12:54:24	57399	13	27	110
12:53:25	57586	15	9	83	12:54:25	57406	12	45	117
12:53:26	57553	17	12	118	12:54:26	57426	15	42	88
12:53:27	57553	17	3	114	12:54:27	57426	14	46	122



TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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12:54:30	57452	10	40	83	12:55:30	57620	5	65	120
12:54:31	57452	11	34	82	12:55:31	57675	11	55	118
12:54:32	57477	13	41	80	12:55:32	57700	5	67	122
12:54:33	57477	16	44	114	12:55:33	57760	9	79	110
12:54:34	57484	16	48	75	12:55:34	57760	7	73	149
12:54:35	57480	14	48	75	12:55:35	57829	10	58	149
12:54:36	57480	12	43	76	12:55:36	57829	5	67	118
12:54:37	57476	14	41	109	12:55:37	57829	6	60	118
12:54:38	57472	14	50	110	12:55:38	57990	7	75	144
12:54:39	57472	20	63	110	12:55:39	57990	9	77	142
12:54:40	57457	20	62	82	12:55:40	57990	7	74	104
12:54:41	57457	14	33	83	12:55:41	57990	2	66	104
12:54:42	57432	15	52	88	12:55:42	58181	8	79	97
12:54:43	57421	8	47	119	12:55:43	58181	6	73	103
12:54:44	57421	7	43	108	12:55:44	58211	9	76	136
12:54:45	57391	9	39	90	12:55:45	58211	4	81	106
12:54:46	57391	11	34	93	12:55:46	58222	5	79	108
12:54:47	57381	7	39	121	12:55:47	58216	7	85	138
12:54:48	57381	6	42	124	12:55:48	58216	6	83	134
12:54:49	57368	8	40	95	12:55:49	58201	7	79	104
12:54:50	57367	15	56	97	12:55:50	58201	9	75	116
12:54:51	57367	21	78	128	12:55:51	58167	7	51	114
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12:54:53	57371	16	74	91	12:55:53	58123	8	52	144
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12:54:55	57349	12	58	94	12:55:55	58110	12	56	129
12:54:56	57349	6	43	121	12:55:56	58110	11	74	114
12:54:57	57334	12	67	121	12:55:57	58134	6	38	116
12:54:58	57325	15	43	91	12:55:58	58134	8	69	139
12:54:59	57316	13	68	87	12:55:59	58134	6	71	142
12:55:00	57290	13	64	124	12:56:00	58182	18	53	116
12:55:01	57290	5	52	122	12:56:01	58224	14	76	116
12:55:02	57290	6	43	125	12:56:02	58224	16	76	130
12:55:03	57255	9	60	93	12:56:03	58265	9	76	140
12:55:04	57242	5	61	91	12:56:04	58265	11	69	102
12:55:05	57242	3	52	92	12:56:05	58321	22	73	102
12:55:06	57244	6	45	120	12:56:06	58370	26	94	100
12:55:07	57244	5	62	121	12:56:07	58370	29	93	130
12:55:08	57240	5	67	90	12:56:08	58390	37	104	125
12:55:09	57240	6	53	81	12:56:09	58393	32	110	89
12:55:10	57240	12	55	120	12:56:10	58393	25	69	90
12:55:11	57240	3	51	117	12:56:11	58388	22	92	99
12:55:12	57240	4	64	114	12:56:12	58388	8	61	97
12:55:13	57227	4	59	92	12:56:13	58387	10	66	128
12:55:14	57228	4	52	94	12:56:14	58387	8	72	126
12:55:15	57228	4	57	122	12:56:15	58387	2	58	88
12:55:16	57238	4	71	98	12:56:16	58381	5	33	88
12:55:17	57255	7	65	104	12:56:17	58381	22	60	124
12:55:18	57272	7	66	103	12:56:18	58365	33	91	128
12:55:19	57272	7	65	137	12:56:19	58365	39	108	97
12:55:20	57311	7	58	131	12:56:20	58365	51	124	132
12:55:21	57311	3	61	118	12:56:21	58365	48	129	95
12:55:22	57349	11	59	97	12:56:22	58430	33	125	90
12:55:23	57349	3	46	100	12:56:23	58430	44	113	118
12:55:24	57349	5	65	136	12:56:24	58480	38	95	97
12:55:25	57446	4	46	138	12:56:25	58517	31	77	101
12:55:26	57446	12	79	109	12:56:26	58517	25	49	94
12:55:27	57522	12	83	110	12:56:27	58550	5	40	88

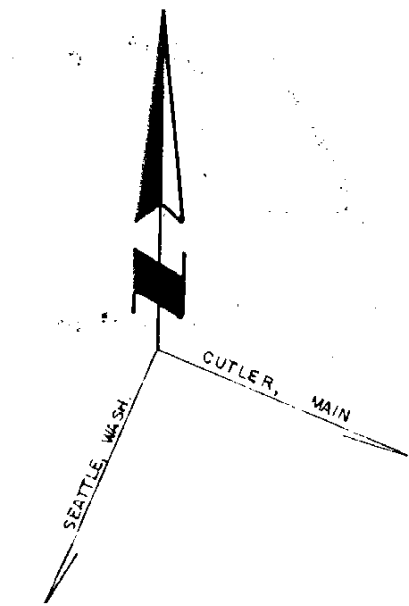
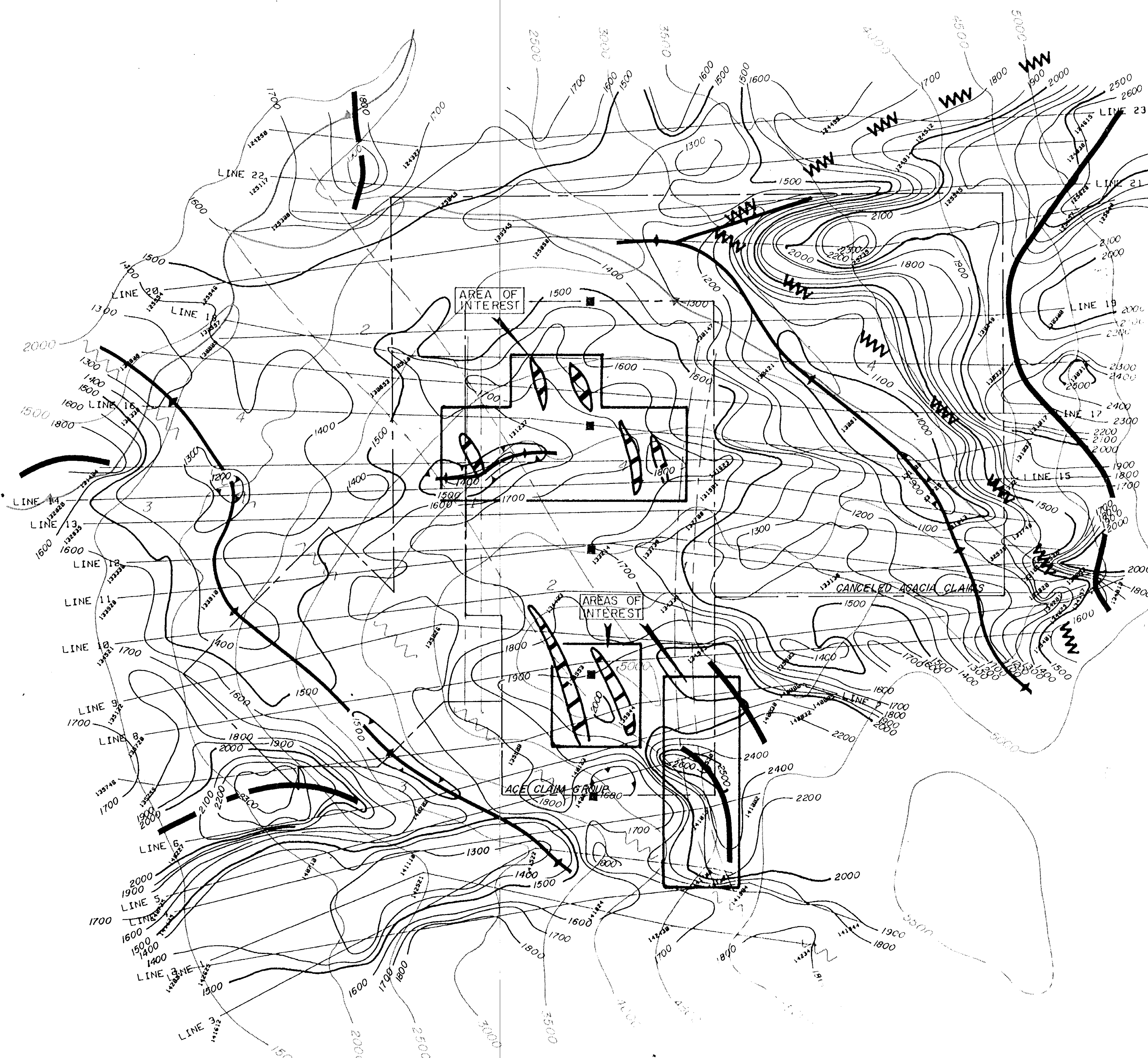
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12:56:30	58495	27	73	97	12:49:13	58091	19	27	96
12:56:31	58495	18	46	126	12:49:14	58145	19	30	102
12:56:32	58454	21	44	102	12:49:15	58145	17	32	112
12:56:33	58435	28	51	102	12:49:16	58145	22	26	152
12:56:34	58407	9	44	104	12:49:17	58145	19	29	157
12:56:35	58407	19	81	137	12:49:18	58060	19	28	128
12:56:36	58371	34	130	138	12:49:19	57976	18	28	132
12:56:37	58371	51	134	114	12:49:20	57976	17	30	154
12:56:38	58376	56	136	111	12:49:21	58018	16	26	154
12:56:39	58383	49	130	129	12:49:22	57981	16	31	120
12:56:40	58383	43	127	109	12:49:23	57944	17	25	146
LINE: RE22	flown WEST	on 83/07/05			12:49:24	57930	19	28	120
12:48:25	58623	19	37	91	12:49:25	57930	15	30	123
12:48:26	58623	18	39	113	12:49:26	57937	19	28	155
12:48:27	58623	18	41	88	12:49:27	57937	18	29	153
12:48:28	58623	17	31	86	12:49:28	57863	16	29	150
12:48:29	58623	25	37	124	12:49:29	57789	21	28	120
12:48:30	58623	33	38	132	12:49:30	57789	17	31	122
12:48:31	58623	28	38	82	12:49:31	57789	14	31	157
12:48:32	58623	42	34	83	12:49:32	57715	16	27	126
12:48:33	58623	38	40	80	12:49:33	57661	16	26	118
12:48:34	58693	31	40	124	12:49:34	57604	15	19	123
12:48:35	58693	39	39	75	12:49:35	57604	16	29	125
12:48:36	58658	40	37	73	12:49:36	57632	18	28	159
12:48:37	58657	35	35	75	12:49:37	57632	15	25	129
12:48:38	58656	36	35	71	12:49:38	57530	16	25	132
12:48:39	57853	26	35	117	12:49:39	57429	16	27	132
12:48:40	57051	33	38	115	12:49:40	57429	23	25	155
12:48:41	57797	26	40	67	12:49:41	57383	15	24	115
12:48:42	58543	40	38	67	12:49:42	57383	16	27	153
12:48:43	58543	40	41	67	12:49:43	57383	21	28	128
12:48:44	58170	28	39	112	12:49:44	57383	21	28	128
12:48:45	58170	33	39	114	12:49:45	57383	17	26	155
12:48:46	58256	27	39	65	12:49:46	57383	19	27	126
12:48:47	58343	38	38	137	12:49:47	57346	16	26	121
12:48:48	58343	34	37	74	12:49:48	57309	16	24	120
12:48:49	58299	26	37	68	12:49:49	57309	21	25	155
12:48:50	58299	28	42	66	12:49:50	57274	18	25	132
12:48:51	58299	30	37	64	12:49:51	57274	18	27	137
12:48:52	58282	27	45	115	12:49:52	57287	18	22	129
12:48:53	58266	30	36	118	12:49:53	57287	17	23	130
12:48:54	58266	29	31	74	12:49:54	57296	17	24	132
12:48:55	58319	25	37	76	12:49:55	57296	21	23	130
12:48:56	58296	24	38	127	12:49:56	57291	17	23	128
12:48:57	58296	26	35	115	12:49:57	57291	17	23	124
12:48:58	58261	28	32	84	12:49:58	57328	17	38	121
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12:49:0	58269	19	34	74	12:50:0	57365	16	20	147
12:49:1	58260	22	29	74	12:50:1	57389	17	22	137
12:49:2	58260	24	31	120	12:50:2	57378	21	30	111
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12:49:4	58313	21	32	77	12:50:4	57378	19	20	139
12:49:5	58301	24	34	126	12:50:5	57398	17	20	147
12:49:6	58320	24	32	127	12:50:6	57426	16	22	105
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12:49:8	58310	22	32	125	12:50:8	57454	18	22	138
12:49:9	58310	21	32	87	12:50:9	57454	16	21	136
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TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
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12:50:16	57432	15	22	115	12:51:16	57663	16	2	173
12:50:17	57437	14	24	124	12:51:17	57628	21	1	172
12:50:18	57443	21	21	151	12:51:18	57628	17	2	193
12:50:19	57437	13	19	151	12:51:19	57645	16	5	193
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12:50:25	57462	14	1	127	12:43:40	57584	8	22	102
12:50:26	57462	14	4	126	12:43:41	57568	14	25	105
12:50:27	57468	16	5	127	12:43:42	57564	9	25	131
12:50:28	57468	19	1	135	12:43:43	57573	14	28	111
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12:50:56	57761	15	4	132	12:44:11	57412	15	26	113
12:50:57	57761	15	1	84	12:44:12	57403	15	25	114
12:50:58	57925	14	8	77	12:44:13	57403	7	24	149
12:50:59	57843	13	3	81	12:44:14	57446	13	30	140
12:51: 0	57920	17	1	129	12:44:15	57446	19	38	136
12:51: 1	57997	17	4	125	12:44:16	57520	19	39	100
12:51: 2	57997	16	1	92	12:44:17	57607	19	41	138
12:51: 3	57948	16	0	88	12:44:18	57607	19	37	140
12:51: 4	57853	19	0	91	12:44:19	57640	17	36	101
12:51: 5	57810	16	2	130	12:44:20	57629	17	32	101
12:51: 6	57810	16	1	110	12:44:21	57585	17	34	102
12:51: 7	57776	15	1	131	12:44:22	57585	17	37	138
12:51: 8	57744	16	1	94	12:44:23	57509	15	30	135
12:51: 9	57744	16	5	101	12:44:24	57509	15	27	102
12:51:10	57727	15	0	104	12:44:25	57442	17	32	103

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
12:44:26	57397	21	44	98	12:45:26	57834	14	42	141
12:44:27	57397	18	34	97	12:45:27	57821	13	47	105
12:44:28	57363	18	44	141	12:45:28	57830	11	46	141
12:44:29	57363	16	34	144	12:45:29	57830	12	47	141
12:44:30	57359	15	37	114	12:45:30	57830	13	41	133
12:44:31	57359	13	35	117	12:45:31	57836	9	31	135
12:44:32	57442	10	27	117	12:45:32	57839	21	39	95
12:44:33	57442	12	30	143	12:45:33	57839	24	58	94
12:44:34	57527	11	30	145	12:45:34	57863	24	62	134
12:44:35	57606	12	32	104	12:45:35	57863	25	47	128
12:44:36	57606	13	28	101	12:45:36	57924	26	41	123
12:44:37	57675	18	38	143	12:45:37	57966	19	43	82
12:44:38	57675	15	40	117	12:45:38	57966	17	36	80
12:44:39	57675	15	26	112	12:45:39	58001	11	46	123
12:44:40	57708	13	37	112	12:45:40	58001	20	43	122
12:44:41	57708	17	35	115	12:45:41	58152	26	48	79
12:44:42	57708	11	40	121	12:45:42	58208	24	34	77
12:44:43	57673	14	38	144	12:45:43	58208	12	20	123
12:44:44	57673	9	34	124	12:45:44	58208	19	34	123
12:44:45	57673	9	35	130	12:45:45	58208	32	48	72
12:44:46	57602	8	29	155	12:45:46	58208	32	40	69
12:44:47	57602	12	28	157	12:45:47	58260	30	47	69
12:44:48	57587	13	36	155	12:45:48	58260	27	47	117
12:44:49	57584	16	38	126	12:45:49	58281	30	50	117
12:44:50	57578	11	40	155	12:45:50	58281	22	43	63
12:44:51	57578	11	42	150	12:45:51	58290	26	38	62
12:44:52	57579	11	38	125	12:45:52	58337	20	39	116
12:44:53	57582	17	38	131	12:45:53	58337	22	40	63
12:44:54	57599	11	38	131	12:45:54	58358	43	61	59
12:44:55	57599	11	29	136	12:45:55	58358	55	74	58
12:44:56	57630	12	37	137	12:45:56	58348	39	73	65
12:44:57	57630	21	38	141	12:45:57	58348	57	77	118
12:44:58	57630	14	33	144	12:45:58	58376	43	75	116
12:44:59	57630	14	47	144	12:45:59	58376	45	74	138
12:45:00	57741	12	44	175	12:46:00	58441	33	76	116
12:45:01	57741	12	32	147	12:46:01	58441	26	46	73
12:45:02	57768	16	43	143	12:46:02	58441	21	47	136
12:45:03	57768	11	39	140	12:46:03	58441	23	49	98
12:45:04	57793	12	41	149	12:46:04	58601	42	56	73
12:45:05	57793	10	42	123	12:46:05	58634	46	72	70
12:45:06	57794	12	29	157	12:46:06	58634	39	69	74
12:45:07	57794	9	36	117	12:46:07	58634	46	65	118
12:45:08	57795	10	27	113	12:46:08	58670	39	58	118
12:45:09	57790	18	37	122	12:46:09	58670	30	38	75
12:45:10	57790	17	45	116	12:46:10	58670	23	38	79
12:45:11	57790	16	46	120	12:46:11	58738	32	38	124
12:45:12	57810	16	43	117	12:46:12	58783	58	86	120
12:45:13	57823	15	32	119	12:46:13	58783	73	80	61
12:45:14	57823	14	42	119	12:46:14	58829	0	75	79
12:45:15	57829	19	43	142	12:46:15	58829	0	51	68
12:45:16	57836	9	37	153	12:46:16	58736	37	38	118
12:45:17	57869	11	56	154	12:46:17	58736	13	31	115
12:45:18	57869	17	51	119	12:46:18	58685	3	32	68
12:45:19	57916	11	36	153	12:46:19	58685	11	27	67
12:45:20	57854	11	24	113	12:46:20	58690	16	32	69
12:45:21	57854	19	46	147	12:46:21	58690	12	35	66
12:45:22	57895	17	56	110	12:46:22	58690	20	53	67
12:45:23	57849	18	61	100	12:46:23	58728	52	59	70
12:45:24	57849	18	44	106	12:46:24	58733	80	80	73
12:45:25	57834	20	45	144	12:46:25	58733	85	82	80

TIME	MAG	VLF1	VLF2	ALT	TIME	MAG	VLF1	VLF2	ALT
12:46:26	58720	85	73	80	12:46:29	58731	40	90	80
12:46:27	58720	62	80	105	12:46:30	58736	11	79	77
12:46:28	58731	82	91	144	12:46:31	58755	35	73	117

INSTRUMENT	MAXIMUM VALUE OBSERVED	MINIMUM VALUE OBSERVED
MAGNETOMETER	60694	56858
VLF1<SEATTLE>	102	1
VLF2<ANNPLIS>	136	1



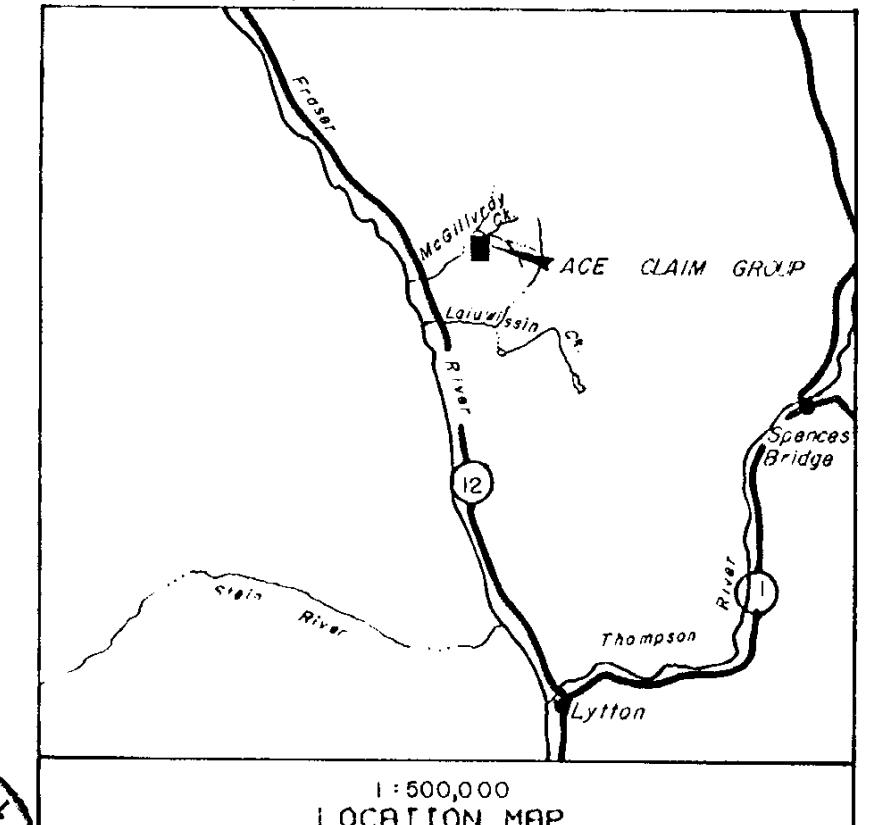
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,371**

**KEY**

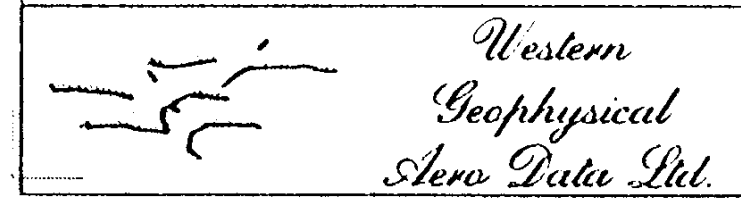
- INSTRUMENT: Barringer M 123 Magnetometer
- Data corrected for diurnal variations
- Base Value = 56000 gammas
- Contour Interval = 100 gammas
- == Roads
- - - Claim boundary
- Claim post
- W W W Inferred Fault
- ▨ VLF-EM Conductor
- Magnetic High
- Magnetic Low

N.T.S. 92 I/5, 92 I/12



**GEOLOGICAL LEGEND:**

- |   |                         |
|---|-------------------------|
| 1 | Feldspar porphyry dykes |
| 2 | Limestone               |
| 3 | Granodiorite            |
| 4 | Andesite - Volcanics    |
- W W W Geologically interpreted fault

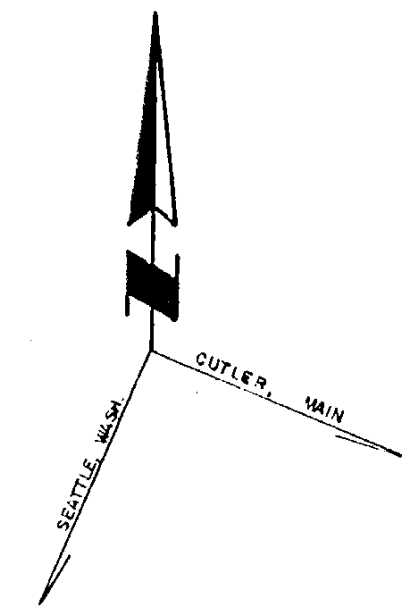
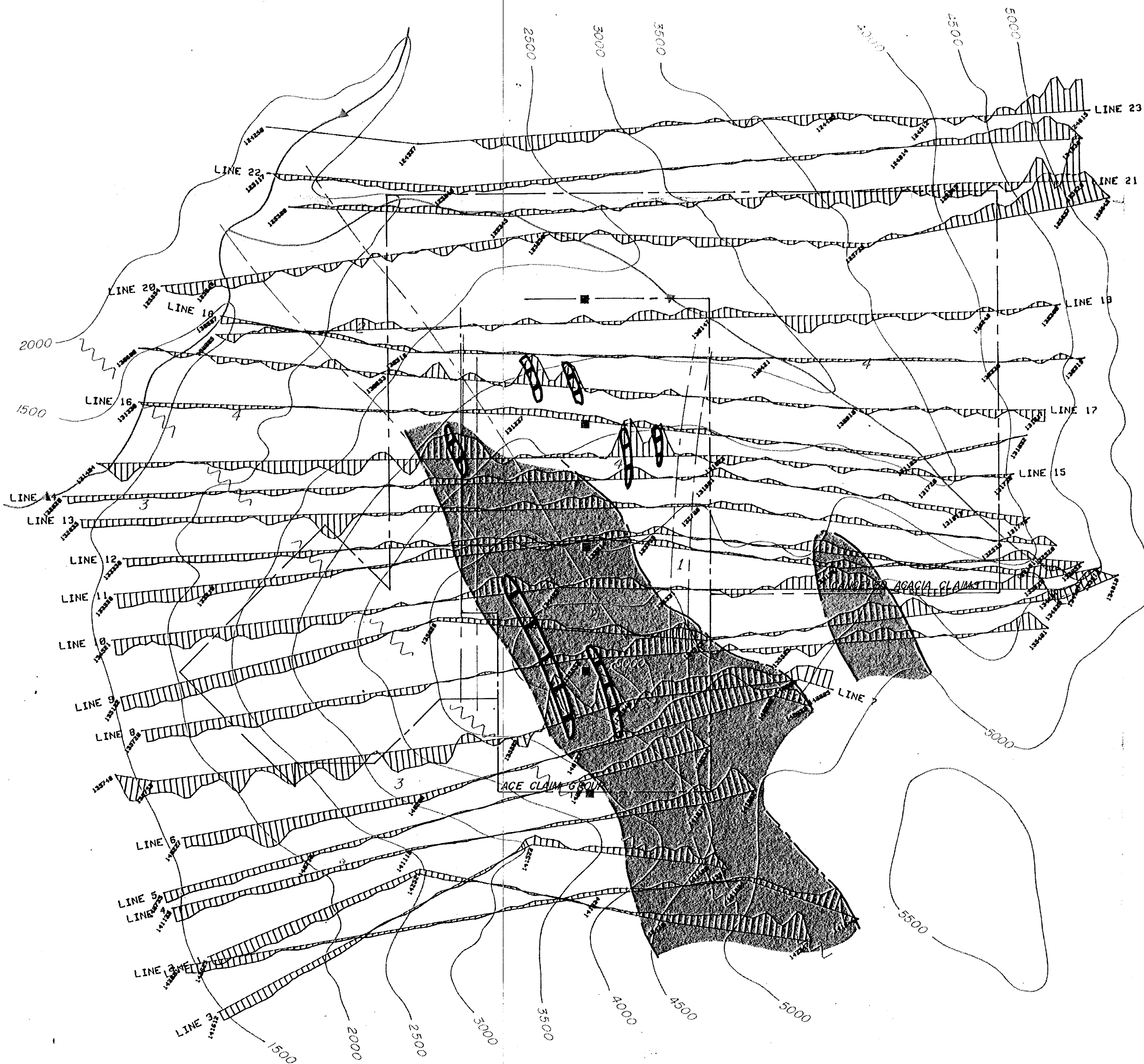


To accompany the Geophysical Report on the Ace Claims

**RYAN ENERGY CORP.  
ACE CLAIM GROUP  
MAGNETIC INTENSITY CONTOUR MAP  
TOTAL MAGNETIC FIELD INTENSITY (GAMMAS)**

DATE: JULY 5/83

FIG.: 2



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

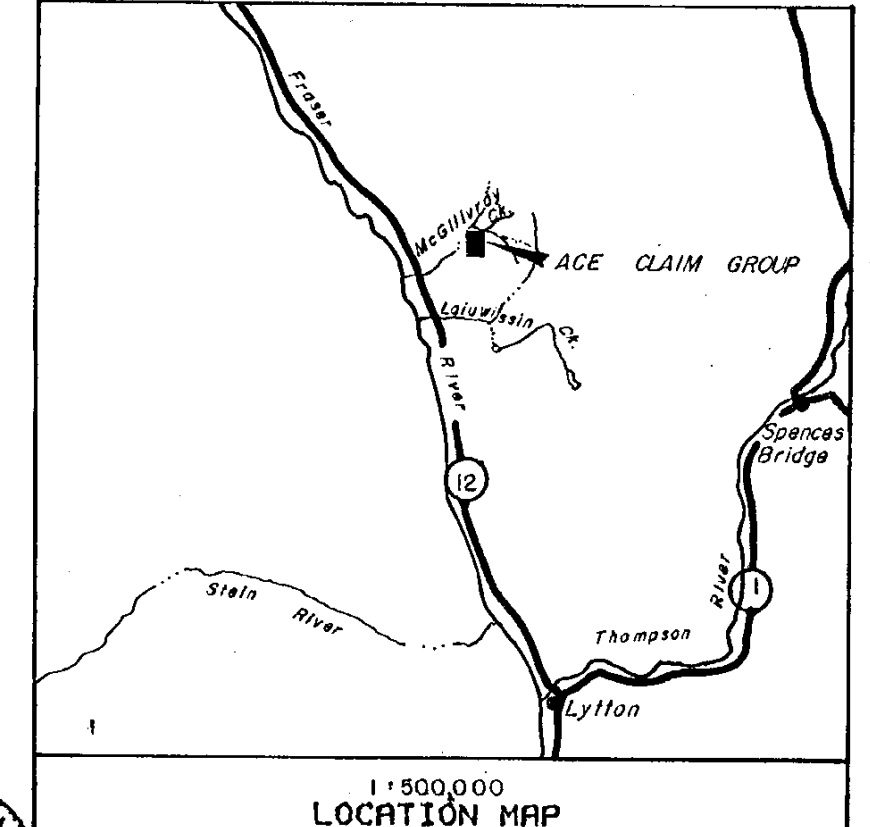
**11,371**

- KEY**
- INSTRUMENT: Sabre Total Field Intensity VLF-EM
  - Transmitter Station, Seattle (24.8 KHz)
  - Vertical Scale, 10%/cm.
  - == Roads
  - - - Claim boundary
  - Claim post
  - ⊃ Highly conductive responses
  - ▨ Zone of increased conductivity

**GEOLOGICAL LEGEND:**

- |   |                         |
|---|-------------------------|
| 1 | Feldspar porphyry dykes |
| 2 | Limestone               |
| 3 | Granodiorite            |
| 4 | Andesite - Volcanics    |
- ~~~~~ Geologically interpreted fault

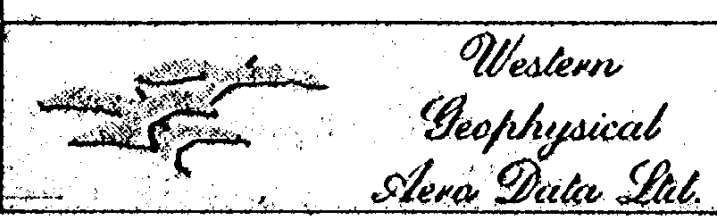
N.T.S. 92 I/5, 92 I/12



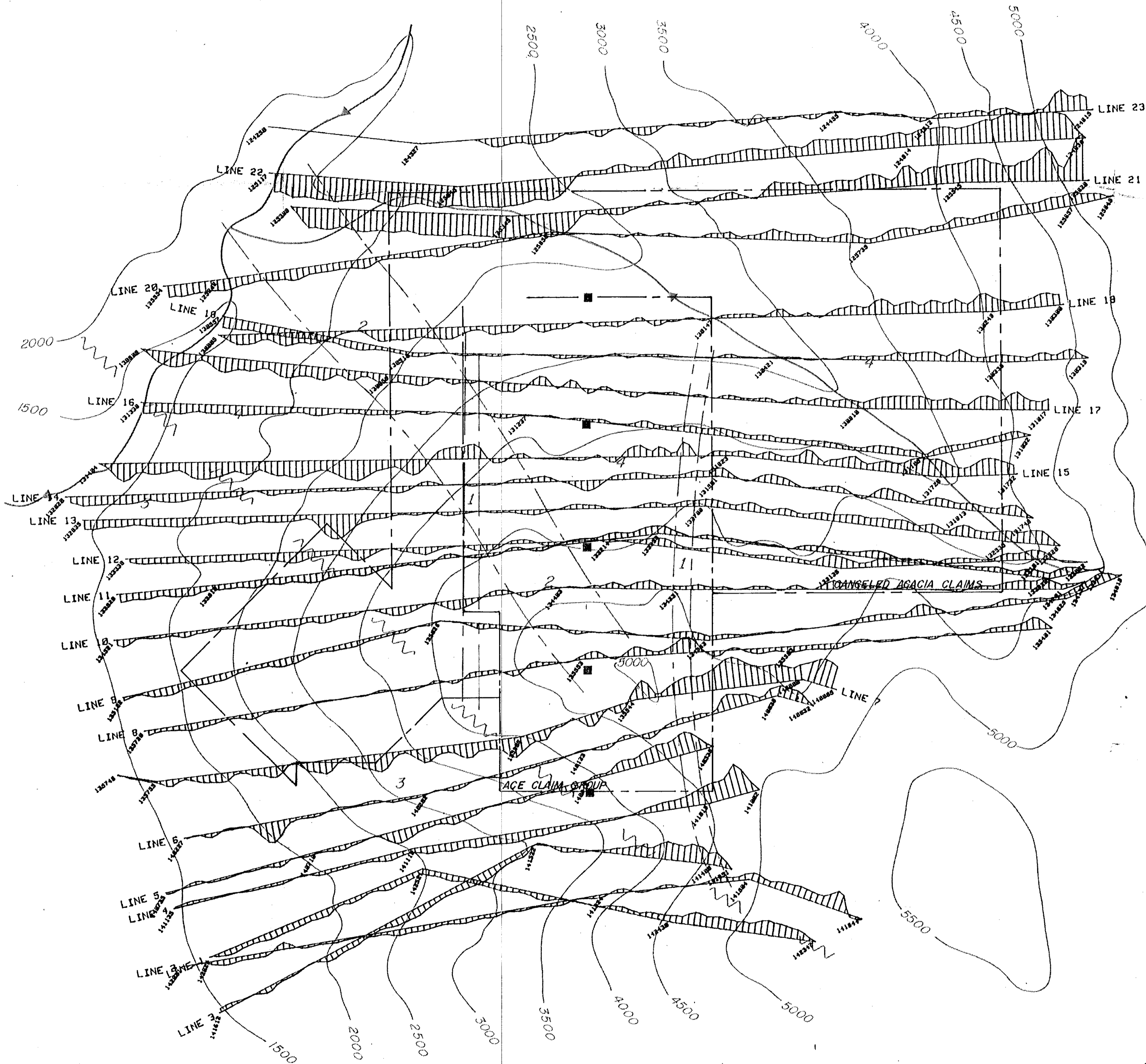
**RYAN ENERGY CORP.  
ACE CLAIM GROUP  
TOTAL FIELD INTENSITY VLF-EM  
VLF-EM PROFILES (SEATTLE)**

DATE: JULY 5/83

FIG.: 3



To accompany the Geophysical Report on the Ace Claims



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,371**

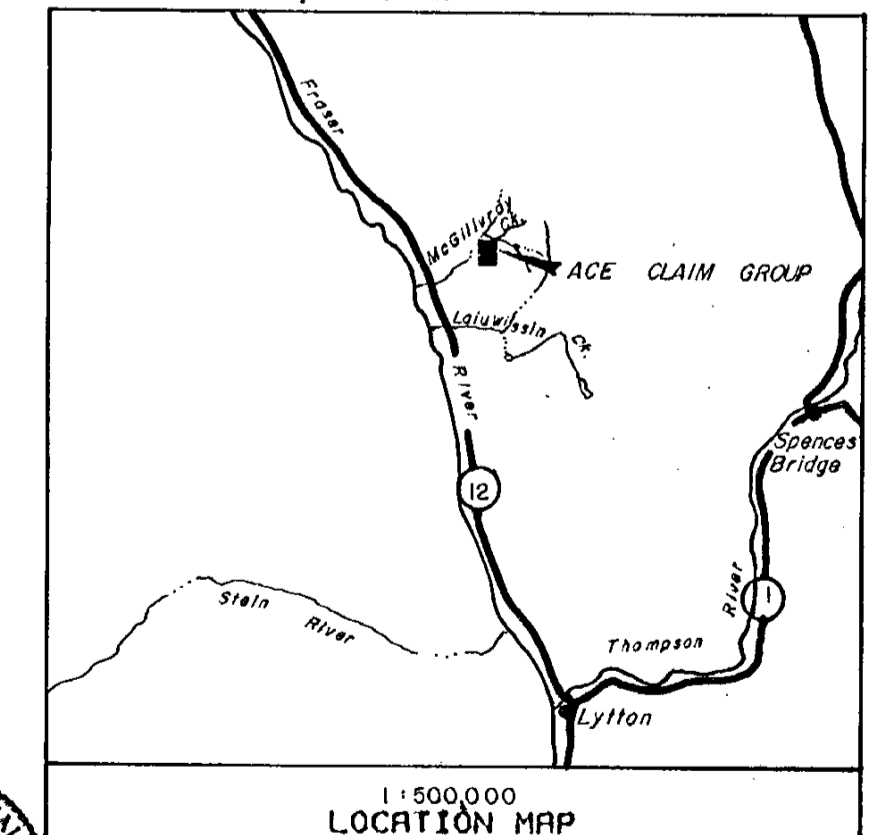
**KEY**

INSTRUMENT: Sabre Total Field Intensity VLF-EM  
 Transmitter Station, Cutler (17.8 Khz)  
 Vertical Scale, 10%/cm.  
 Roads  
 Claim boundary  
 Claim post

**GEOLOGICAL LEGEND:**

- |   |                         |
|---|-------------------------|
| 1 | Feldspar porphyry dykes |
| 2 | Limestone               |
| 3 | Granodiorite            |
| 4 | Andesite - Volcanics    |
- ~ ~ ~ ~ Geologically interpreted fault

N.T.S. 92 I/5, 92 I/12



**RYAN ENERGY CORP.  
ACE CLAIM GROUP  
TOTAL FIELD INTENSITY VLF-EM  
VLF-EM PROFILES (CUTLER)**

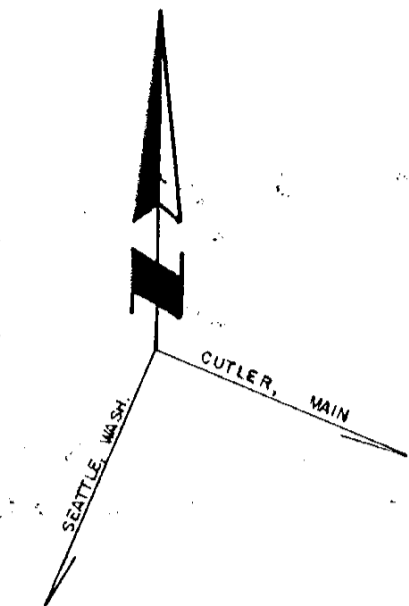
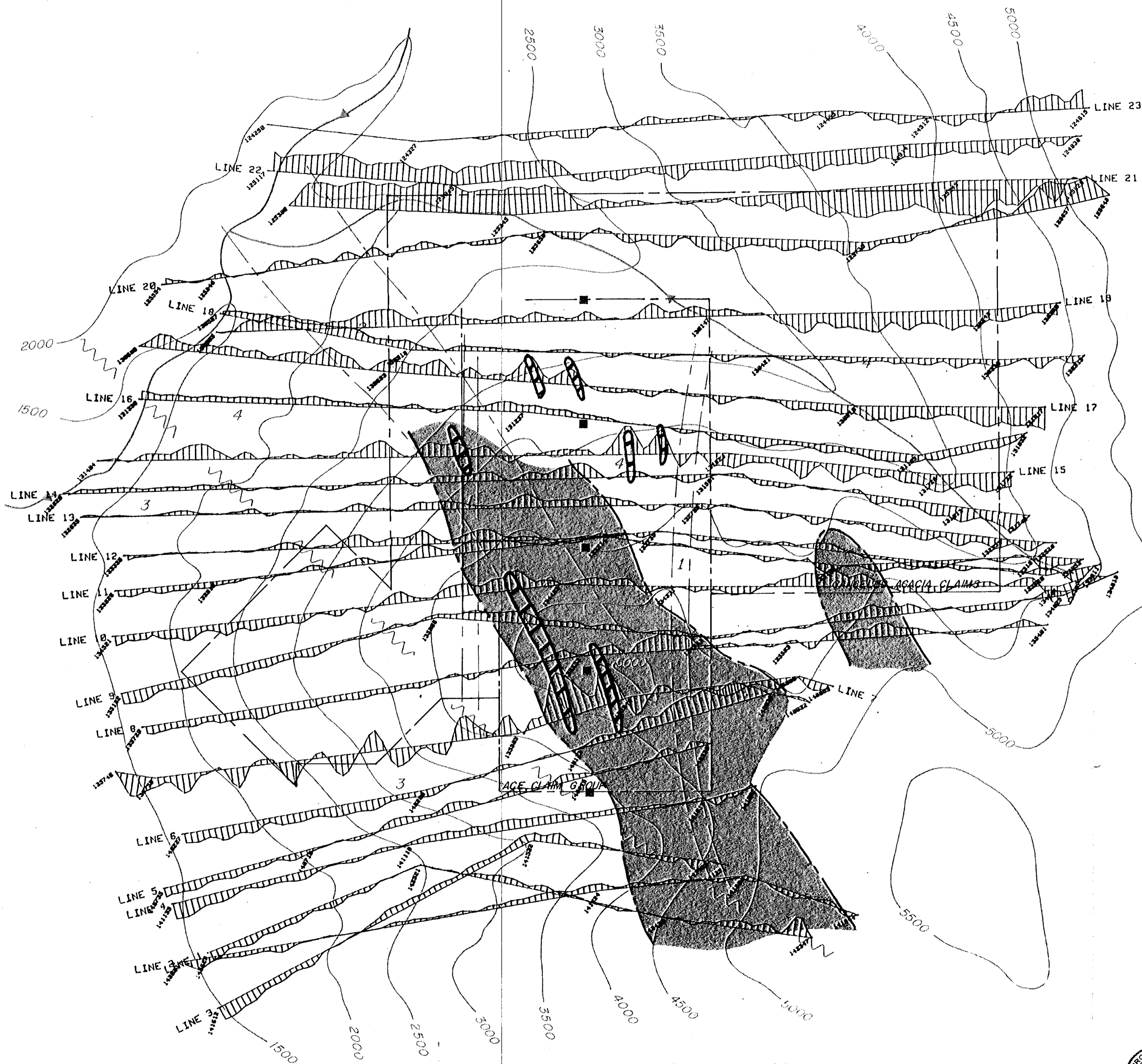
DATE: JULY 5/83

FIG.: 4



To accompany the Geophysical Report on the Ace Claims





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,371**

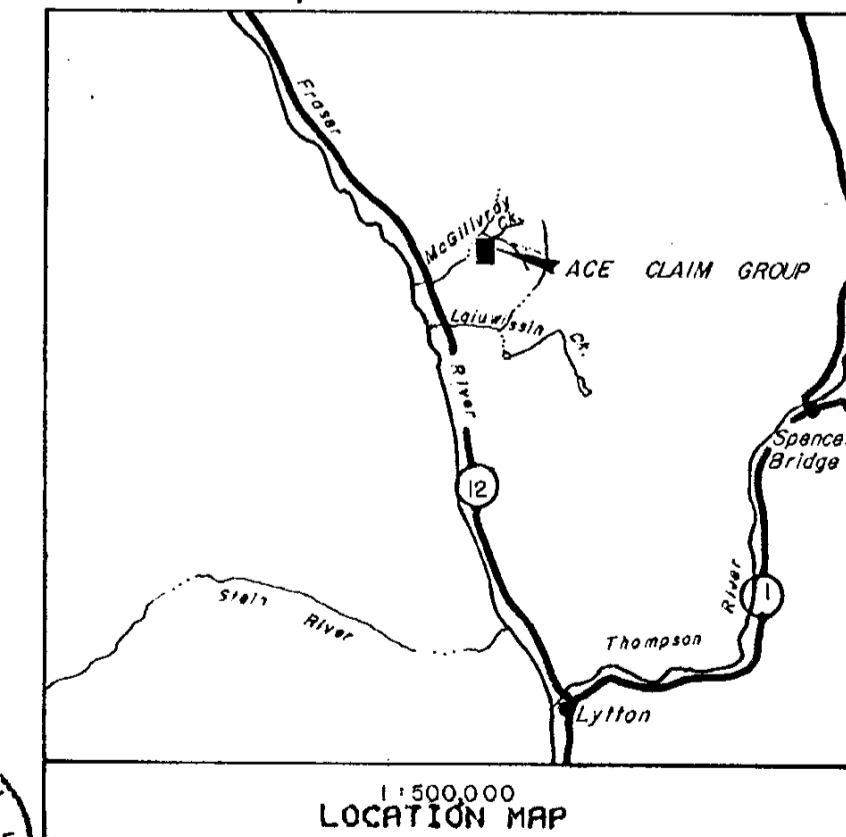
KEY

- INSTRUMENTS: Sabre Total Field Intensity VLF-EMS
- Transmitter Station#1, Seattle (24.8 Khz)
- Transmitter Station#2, Cutler (17.8 Khz)
- Vertical Scale, 10%/cm.
- == Roads
- - - Claim boundary
- Claim post
- Highly conductive responses
- Zone of increased conductivity

**GEOLOGICAL LEGEND:**

- |   |                         |
|---|-------------------------|
| 1 | Feldspar porphyry dykes |
| 2 | Limestone               |
| 3 | Granodiorite            |
| 4 | Andesite - Volcanics    |
- Geologically interpreted fault

N.T.S. 92 I/5, 92 I/12

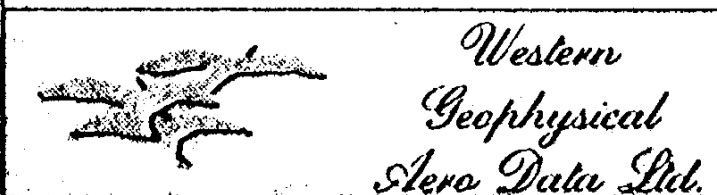


METRES  
0 100 200 300 400 500 600 700 800

**RYAN ENERGY CORP.  
ACE CLAIM GROUP  
VLF-EM DIFFERENCE PROFILES  
(SEATTLE - CUTLER)**

DATE: JULY 5/83

FIG.: 5



To accompany the Geophysical Report on the Ace Claims