

**ANNUAL REPORT
RETENTION LICENCE 8802 BOWRY CREEK
SAVAGE RIVER, TASMANIA**

for the period
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OCHRE AND UMBER DEPOSITS

BY

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1.0 Introduction

RL 8802 covers 9.5 square kilometres of ground located SW of Savage River township. It covers ochre/umber/talc, sand, magnesite and magnetite resources defined by Savage Resources Ltd. within the previous title, EL 4/61. Since the company intends to produce ochre and umber mineral leases have been applied for covering 5.75 square kilometres to include the ochre and umber areas considered best situated for production purposes.

1.1 Summary of previous exploration

The magnetite and magnesite resources were sufficiently defined in terms of their current minability prior to the granting of RL8802 (Shannon 1988). Work done since the granting of the RL has been all but exclusively on the ochre resource including work on a series of costean samples, which established the feasibility of producing natural ochre style pigments, and a drilling program has established indicated reserves of reds, yellows and browns considered to be large enough to support the 10,000 tonnes/year size operation being contemplated (Shannon, 1990, Annett, 1990).

1.2 Summary for the 1990-91 work season

During the reporting period just ended fieldwork projects were carried out to obtain some direct density measurements on ochres, to

define an area of the umber variety at Bowry Creek large enough to support mining, and to refine outcrop mapping of the magnesite. Further work was done on samples collected in the previous drilling and these were rebagged and stored indoors, bush tracks were kept open by chainsaw and winch. The dry slip colour atlas was photographed to provide a reproducible form of the data.

A start was made on processing some drillhole and costean samples to gain basic data on extractable fines and the composition of the extracted ochre at a first level stage of beneficiation. This work was conducted in a laboratory set up at Savage River. The work was halted after a representative assemblage of samples had been processed. Since then there have been delays connected with the company's refinancing arrangements (which have only recently been completed), and with the debate over the nature of the optimum style of product to place on the market. It is considered that a purified product chemically approaching an artificial iron oxide pigment would be more readily marketable than the natural ochre style product represented by the laboratory fines extract or by the dry-process micronizing approach previously tried out at the Savage Minerals Ballarat laboratory (Hosking 1989).

The aim of greater purity requires further processing to remove gangue minerals, and time consuming enquiries have been made to track down existing developed techniques which could be applied to the problem. A lead showing promise is a processing route developed

for the removal of goethite from talc concentrates.

The situation with respect to the resources other than pigment is kept under review and enquiry has been pursued in the hope of placing the magnetite with Savage River Mines and of placing some magnesite in agricultural use.

2.0 Field work projects

Two projects; the Bowry Creek umber project and the ochre density determinations required hand auger drilling and sample collection. As there is some overlap of the projects all the hand auger hole descriptions, locations and sample numbers are consolidated into table 1, and the data for determining densities for certain of the samples is given in table 2. Mapping work is reported by means of updates of sheets 2 and 6 of previous 1:1000 scale coverage (map supplement).

2.1 Hand auger drilling

Two types of auger were used, a 7.5cm posthole type auger for near surface work and a shell auger with extension rods for greater depths. As usual for the area a stone layer occurs at the base of the transported soil cover, and often stops an auger. Once through penetration to 3m could be achieved.

TABLE 1: AUGER HOLE LOCATIONS AND RESULTS

(a) BOWRY CREEK UMBER DEPOSIT

Note: the locations are described in terms of roughly West to East traverses in order North to South. Only the last three digits, giving location to the metre are given since all previous digits are common i.e. 347***mE; 5397***mN.

Isolated auger hole well north of main prospect area

Survey pt/ location code	RL.	E	N	Remarks
DH003	167.6	312	412	umber to 1.5m, 7YR 3/4.

Traverse 0, Bowry Creek prospect

BHB02	153.4	340	186	brownish yellow clayey ochre with siliceous "billy" concretions c.f. surface float boulders to 1.2m, hard bottom.
BTB1	150	348	206	brownish yellow ochre with limonite and siliceous billy concretions, 0-1m, samples BTB1, 10YR 6/9; BTB2, 10YR 5/8.

Traverse 1, Bowry Creek prospect

BHA02	153.4	330	186 168	yellow clay matrix breccia over greenschist.
BHA01	152.4	332	173	residual umber 1.4-1.5m below breccia.
BHB01	149.3	342	178	light umber 1.0-1.5m below breccia.
BTSG6	145.5	355	187	residual umber to 0.6m, samples BTSG6; 4YR 4/3, BTSG7; 5YR 4/3.
BT3	145.0	358	180	SE end of E costean, 1m residual umber exposed, sample BT3.
BT2	145.5	359	185	1m residual umber exposed, sample BT2.

Survey pt/ location code	RL.	E	N	Remarks
BT1	146.5	360	193	NE end of E costean 1m umber as above, sample BT1.
BGC01	143.8	365	192	1.5m yellow clay ochre with soft greenschist and umber clasts.
Traverse 2, Bowry Creek prospect				
BH001	146.9	338	165	0.2m umber sample BTSG3, 5YR 3/3.
BT4	145.5	343	168	SE end of W costean exposed 1.5m umber, sample BT4.
BTSG4	146.0	343	170	0.7m umber sample BTSG 4; 4YR 4/3 and sample BTSG 5; 4YR 3/4.
BTSG2	145.5	345	171	0.3m umber sample BTSG 2; 2YR 3/3.
BT6	145.0	348	171	sondage in costean exposed 5m umber, sample BT6.
BT5	145.0	350	173	NE end of W costean exposed 1.5m umber.
BG000	145.0	353	179	residual umber exposure 1m in road cutting plus 0.3m sample BTSG 1; 7YR 4/4.
BGB01	142.0	365	175	1m residual umber, samples BTSG 9; 6YR 3/3, BTSG 10; 5YR 3/4.
Traverse 3, Bowry Creek prospect				
BGA01	139.4	345	146	umber outcrop in creek, breccia, includes relict magnesite boulders.
BGE01	140.9	351	141	umber breccia (transported soil?) over hard rock at 1.4m.
nrBG002	141.8	356	141	umber sample BS1; 8YR 4/5, 0.3m.
BS002	145.0	365	137	umber sample BS2; 8YR 3/2, 0.3m.
BGF01	143.6	372	144	umber breccia to 2.0m hard at base.

Survey pt/ location code	RL.	E	N	Remarks
holeA	143.0	381	148	umber breccia to 2.0m, then wet strong yellow ochre 2.0-2.2, then alluvial grey clay with plant fragments! 2.2-2.5.
BGF02	144.5	389	150	reddish brown clay/ochre matrix breccia 0-1m, dull yellow clay/ochre with clasts 1.0-1.5m, peaty sandy breccia 1.5-2.5.
Traverse 4, Bowry Creek prospect				
BGC01	153.6	357	^{6/4} 121	dull yellow breccia and stones hard at 1m.
nrBGC04	155.5	367	116	residual umber, 0.75-1.25m, samples BS3a; 6YR 2/2, BS3b; 6YR 3/2.
BGB01	155.2	373	118	umber at 0.5m.
BGB02	154.8	383	121	umber at 1.5m.
BGB03	154.7	391	123	reddish brown breccia 0-2.9, umber 2.9-3.0m.
BGB04	151.3	402	129	reddish brown stratified ochre matrix breccia with 20% umber clasts 0-3.0m.
BGB06	147.0	401	141	yellow clay/ochre matrix breccia at 0.6m.
Traverse 5, Bowry Creek prospect				
BG005	161.9	373	103	residual umber 0.75-1.25 samples BS4a; 6YR 2/2, BS4b; 6YR 2/2.
BG006	165.0	380	094	residual umber 0.75-1.0, sample BTSG8; 8YR 3/4.
BG007	170.0	390	083	umber at 0.6m.
BG008	173.9	395	077	sandy umber breccia at 0.6m.
BG010	175.9	403	072	sand.

Miscellaneous scout holes, approximate positions

Survey pt/ location code	RL.	E	N	Remarks
holeB	147	376	135	umber c.f. BS2.
holeC	151	383	130	umber c.f. BS2.
holeD	142	380	180	clay/ochre c.f. B6C01.
holeE	143	390	170	clay/ochre c.f. B6C01.
holeF	144	394	160	clay/ochre c.f. B6C01.

(b) "HT" OCHRE SITE, SIDS CREEK

note: this area is located further north so the common digits of the grid position are as follows: 346***mE, 5400***mN

Survey pt/ location code	RL.	E	N	Remarks
HZ1SG1	181	631	367	clay/ochre, 0-29cm, brownish yellow 9YR 6/7.
HZ1SG2	181	631	367	clayey ochre, 29-58cm, strong brownish yellow 9YR 6/8.
HZ1SG3	181	635	367	clay/ochre, 0-32cm, brownish yellow 10YR 6/7.
HZ1SG4	181	635	367	clay/ochre and pug, 32-63.5cm, dull yellow 10YR 7/6.
HZ1SG5	181	636	370	clay/ochre, 0-32cm, brownish yellow 10YR 6/7.
HA1SG1	177	567	345	sandy reworked ochre, 0-31cm, strong brownish yellow 10YR 6/10.
HA1SG2	177	567	345	sandy reworked ochre, 31-59cm, strong brownish yellow 10YR 6/10.
HA1SG3	177	567	348	reworked ochre, 0-29cm, strong brownish yellow 10YR 6/10.
HA1SG4	177	567	348	reworked ochre, 29-59.5cm, strong brownish yellow 10YR 6/10.

Total 52 holes

3.0 Bowry Creek umber project

The spiral auger drilling effort succeeded in proving up reserves of the more normal varieties of ochre at Sid's bridge ("HT" site) but the dark brown, manganiferous variety, umber, is not present in that area and has its major known occurrence on Bowry Creek. Material from the stockpile on this site, derived from the costean program and duplicating costean sample BT5 was processed as sample SR50 and this extract attracted interest at a conference of iron oxide pigment specialists in Britain. Thus it became desirable to establish the prospect for a sufficient reserve of the umber variety.

The occurrence had been tested previously by a costean line that was taken down to 5m at one point without bottoming the deposit. The costean exposed residual type umber (which preserves textural features that are relicts of the original magnesite rock) and minor greenschist beds, which were mainly of a distinctive green talc phyllite. It was anticipated that there would be straightforward extensions along strike of the residual umber body.

Much of the ground is difficult of access for machinery so a hand auger approach was adopted. Even so line cutting was required to cope with dense after-fire regrowth vegetation.

3.1 Boundaries to the deposit

The augering was intended to map out the umber area, rather than to measure out a volume since the previous work shows that normal depths of these deposits is beyond reach of a hand auger. Initially samples were taken from measurable volumes so that density determinations could be made. It became apparent that there was severely limited extent to the deposit south along strike, where the umber is replaced by stony ochre. The larger stones were siliceous residuals of quartz/carbonate rock which is a lithology known in outcrop from only the eastern part of the magnesite. It was found that these boulders occurred for about 100m northward and the area is interpreted as a breccia pipe adjacent to the Main Creek Fault.

Similarly the eastern boundary proved to be defined against a breccia pipe characterized by soft greenschist clasts and umber clasts in a yellow clay-ochre matrix and the northern boundary by a pipe of sand. There were marginal phases of reworked umber between the residual umber mass and the allochthonous pipe fills. A small area along Bowry Creek has an autochthonous fill of green talc schist boulders in umber breccia matrix, with some magnesite boulders.

The residual umber can nevertheless be traced for 100m and is likely to provide a source for 10,000 tonnes of umber pigment extract, should an average depth of 10m of ore be available, which would seem

likely from the general picture gained from spiral auger drilling.

3.2 Other umber occurrences

Some 100m to the north the road section exposes umber in and adjacent to greenschist interpreted as marker 8. This outcrop is residual umber and may prove extensive if limited in width. 100m further north again some more umber was discovered in the scar pulled out by a fallen tree, and later confirmed by hand augering. This site was discovered while scouting for umber between markers 7 and 8, which is the locus of the most umber-like material at Main Creek.

3.3 Discussion

It is thought that the umber develops over that part of the magnesite area where manganese to iron ratio of the rock passes a critical level. There is a systematic decrease in iron content from east to west across the deposit whereas manganese content is fairly constant, thus the ratio Mn:Fe increases as the total iron decreases.

4.0 Ochre density project

The tonnage estimate made previously for the "HT site" drilling area

was made using unchecked assumptions as to the overall density of the material and prior to actual work on extracting ochre as fines from the samples. A check was warranted for the density which could not be obtained directly from the spiral auger samples, since the process of collecting the soft material causes compression and loss of interstitial water, and more compression and water loss occurs when the samples are transported. The problem of distortion of the sample in the sampling process can be approached by measuring the volume from which a sample is extracted, rather than that of the sample itself, and this was the approach that was applied.

4.1 Procedure for density determinations

Using a suitable hand auger, a hole of regular and measurable diameter and measurable depth is excavated, collecting all the material from it and storing it in a sealable plastic bag. It proved possible to measure the depth of the hole with a builder's retractable steel tape, discriminating to 0.5cm and to measure diameter discriminating by 1mm intervals with the aid of a set of cardboard discs graduated in 1mm intervals. This device worked surprisingly well. It was found that so long as the ochre was reasonably homogeneous and a well broken in posthole type auger was used, there was no difficulty in sizing the hole - the next smaller disc would drop and the next larger would only move if forced. The bags used could accommodate the sample from 1500 to 2000cc corresponding to some 30cm depth of hole with the auger favoured.

The ideal situation for use of the method occurred with the Bowry Creek residual umber; an even textured and fine grained material. Yet some quite gravelly material in the road at drillhole HA1 supported an acceptably regular hole, although most gravelly ground is unsuitable. If the hole widens at depth, as usually happens below a surficial root mat or stone layer it cannot be measured. The technique is accurate in stone-free near-surface situations and a rough guide only where the hole itself cannot be measured directly. Experimentation showed that even the most reliable augers had both a normal hole size and more variation than was expected.

4.2 Density data

TABLE 2: SPECIFIC GRAVITY DETERMINATIONS

Bowry Creek umber

Sample	interval	diam	vol	mass wet	SG wet	mass dry	SG dry
BTSG1 ✓	29.5	8.5	1674.0	2037	1.22	1032	0.6165
BTSG2 ✓	32.5	8.6	1887.9	2072	1.10	1122	0.5943
BTSG3 ✓	22.5	8.5	1276.8	1330	1.04	750	0.5874
BTSG4 ✓	29.5	8.5	1674.0	2063	1.23	1304	0.7790
BTSG5 ✓	33.0	8.5	1872.6	2386	1.27	1007	0.5340
BTSG6 ✓	30.0	8.5	1702.4	2080	1.22	1143	0.6714
BTSG7 ✓	33.0	8.5	1872.6	2390	1.28	1285	0.6862
BTSG8 ✓	23.0	8.8	1398.9	2473	1.77	1656	1.1837

Sample	interval	diam	vol	mass wet	SG wet	mass dry	SG dry
BTSG9 ✓	35.0	8.8	2128.7	2614	1.23	1479	0.6948
BTSG10 ✓	25.0	8.8	1520.5	2526	1.66	1330	0.8747

Yellow ochre next to umber area

BTB1 ✓	28.0	9.2*	1861	3456	1.86	2663	1.43
BTB2 ✓	30.0	9.2*	1994	3554	1.78	2690	1.35

* denotes less precise hole diameter measurement

Yellow ochre outcrops near auger holes HZ1 and HA1

HZ1SG1 ✓	29.0	8.4	1607.1	2792	1.74	2205	1.37
HZ1SG2 ✓	29.0	8.4	1607.1	2800	1.74	1969	1.23
HZ1SG3 ✓	32.0	8.4	1773.4	3151	1.78	2365	1.33
HZ1SG4 ✓	31.5	8.4	1745.7	3082	1.77	2203	1.26
HZ1SG5 ✓	30.0	8.4	1662.5	2970	1.79	2240	1.35
HA1SG1 ✓	31.0	8.5	1759.1	3367	1.91	2676	1.52
HA1SG2 ✓	28.0	8.5	1588.9	3419	2.15	2775	1.75
HA1SG3 ✓	29.0	8.5	1645.6	3061	1.86	2019	1.23
HA1SG4 ✓	30.5	8.5	1730.7	2893	1.67	1879	1.14

Extension to umber area south of Bowry Creek

BS1 ✓	20.0	9.0	1272.3	2289	1.80	1781	1.400
BS2 ✓	30.0	9.0	1908.5	1762	0.92	1153	0.6041
BS3a ✓	27.0	9.0	1717.7	1960	1.14	1064	0.6194
BS3b ✓	23.0	9.0	1463.2	2429	1.66	1428	0.9759
BS4a ✓	29.0	9.0	1844.9	3014	1.63	2290	1.2413
BS4b ✓	21.0	9.0	1336.0	3485	2.61	2553	1.9109

5.0 Estimation of the yield factor from available data.

Ideally these samples should be run through the laboratory process to extract and measure the ochre fines component, but approximate yield factors can be obtained by comparing the density measurements in this table against recovery factors from samples processed while the laboratory was operating, so long as the samples are a good match as to their nature and come from nearby drillholes etc.

Yield factor (tonnes crude ochre per cubic metre of ore in the ground) = specific gravity (dry) * recovery#

Recovery# = overflow mass (dry) / process mass (dry).

That is: $Yf = R\# * SG$

5.1 Bowry Creek umber

The material in most of the SG series samples is essentially the same as that in the costean, supporting the use of processed sample SR50 for this exercise. SR50 is taken from the stockpile comprising surplus material from the sondage, costean sample BT6. The recovery obtained in processing 0.532, but this recovery is misleading since the oversize reject material is, in this case almost all pellets of umber, with a little talc.

The blunging stage has not been effective in disintegrating the pigment fines in this case. A more appropriate processing could possibly get the recovery up to 0.9 or so.

But using the available figure for a generalized BT site -

$$Y_f = 0.532 * 0.6384 = 0.34 \text{ tonnes/cu. m.}$$

5.2 Examples from the "HT site" drilled area

For the HZ1 drillhole, the processed sample SR19 made from samples HZ1/1 and HZ1/2 gives a good match for the HZSG series samples which come from within a metre or so of that borehole.

So for a generalized HZ1 site -

$$Y_f = 0.2793 * 1.308 = 0.365 \text{ tonnes/cu. m.}$$

For the HA1 drillhole there are no nearby, appropriate samples that have been processed. The sand in HA1SG 1 and 2 samples render them comparatively dense. The sand factor is important in explaining variation in recovery.

For a low order estimate the processed sample for HA4/6, 7 is used

to give the following rough figure for the HA1 site -

$$Y_f = 0.4428 * 1.409 = 0.624 \text{ tonnes/cu. m.}$$

5.3 Discussion

The initial tonnage estimates for the ochre resource were made using an arbitrary density estimate of 1.24 and a variable recovery (cut factor) determined by a formula which attempted to quantify the ochre component by excluding visible clasts and the non-ochre component of the material as described in the logs, and constrained by a maximum a value of 0.5.

In practice values of 0.3 to 0.5 were most common. Since the determinations in table 2 above were made, the rough total yield from the laboratory work (concentrated on the main drilled ochre area) has become available and gives a recovery factor of the order of 0.32. The average dry density for the three ochre sites is 1.37 giving a general yield factor of 0.44 tonnes/cu m.

These indicative measurements show that the assumptions made for the tonnage estimate in appendix 3 of the previous report are within reason. The cut factor proves to be lower but the density higher than the estimates.

6.0 Dry slip colour determinations

The procedure for obtaining the dry slip colour for the revised logs for the winter drilling program (see volume for the summer drilling program), led to the preparation of an atlas of coloured blobs with specimens of the colours for all the samples from a particular bore displayed on one page. From the display it was possible to interpolate the Munsell colour chart with greater confidence. The blobs represent the natural colour of each sample when prepared as a thin mud and applied as a fingerprint to drawing paper. Previous attempts to produce a colour atlas were not sufficiently successful to warrant reproduction but since the final series was successful it is reproduced here in Appendix 1. The colours are not fully accurate but will give the reader a fair impression of the colours obtained.

6.1 Discussion

Annotations on the page for drillhole HB3 show some chemical and chromameter results from early work in the laboratory. In later work from the laboratory the Munsell scale was not used so comparisons cannot be made.

In the case of sample HB3/3, the corresponding processed sample CG01 is displayed as a small blob adjacent to it. It has essentially the same colour, however the chromameter reading of the sample in dry powder form was 9.6YR 5.8/5.4 which contrasts with the original dry

slip for HB3/3 of 10YR 5/10. The contrast between powder and slip may be enough to account for the difference; unfortunately the slip form cannot be measured in the instrument. But it has been found that chromameter readings taken on powders differ systematically from visual dry slip colours in being lighter, slightly redder and with lower chroma values than the dry slips.

2.0 Geological mapping and observations

The Bowry Creek umber project involved mapping of the approach road exposures and some local creek section exposures. Scouting work north of the approach road revealed a good outcrop of magnesite with associated greenschist outcrop and this was mapped in also. Certain outcrops previously recorded have not been accurately re-positioned but there is enough new and accurate information to warrant an update of the 1:1000 sheet for the area (sheet 6). In scouting ground immediately west of the Main Creek fault, which is the boundary of the umber, outcrops of magnetite were found along the segment south of Bowry Creek. Further west the base of the Bowry Formation is marked by a megaclast breccia with a clast approaching 10m across outcropping in the creek bed. This clast would appear to be from the underlying Timbs Formation.

Further work was also done in accurately locating magnesite outcrops in creek sections north and south of the HT ochre site drilling area, and this upgraded information is integrated with all the

drillhole locations in a revision of 1:1000 sheet 2. The grid of the original series needs adjustment to accommodate for the more accurate positions of the drillholes which are now tied in to state datum by theodolite survey.

8.0 Laboratory work

The laboratory is located at the Savage River township just a short distance from Savage's exploration office. The building is rented from Savage River Mines.

Savage has made minor modifications to the building to incorporate the following:

- sample preparation and drying area
- wet processing area
- geochemical analytical area and office.

The laboratory has been maintained by two full-time laboratory assistants who report directly to the Manager - Special Projects. These two positions were offered to suitably qualified people from within the local community.

The laboratory was installed to specifically analyse and process the

material previously collected during the costean and auger drill hole programmes. It was dedicated to the development and understanding of the pigmentary aspects of the fine-grained iron oxides.

8.1 Laboratory development.

In broad terms the development of the laboratory duties was designed so that the issuing beneficiated material would provide the basis for other, more complex and proprietary, test work.

Within this reporting period the work has included:

- fine particle size differentiation
- filtering analysis and implementation, with or without filter medium aids
- wet chemical analysis, specifically iron and manganese
- dry powder applications.

The laboratory has at the time of writing processed over 250 kg of raw material from 67 individual samples of either drill hole or costean material. This has provided a reserve of some 80 kg of beneficiated material, some of which now awaits further analysis.

Savage is currently evaluating the significance of research conducted by other resource and/or research companies with the intention of applying their processes, if warranted, on both the beneficiated and raw material. Unfortunately this has taken longer than expected.

8.2 Laboratory Procedures.

Samples are first selected for laboratory test work using those drill log descriptions provided by the senior geologist. Where possible composite samples are used should a series meet the following criteria:

- consistent colour, chroma and hue
- similar lithological impurities.

Samples are always air-dried prior to laboratory test work and dry screened to remove the +12mm oversize material.

8.2.1 Wet Process.

Essentially the process is one of sample dispersion within an aqueous medium of known pH. The process involves the use of a light scrubbing action of sufficient energy to provide disaggregation of

the lump material without any grinding or particle size diminution.

In practice this is achieved by the dispersion of the sample material into a pH modified solution and the resultant slurry agitated in a rubber-lined drum with a blunging/dispersant medium.

Upon the dispersion of the sample material the slurry is diluted to approximately 10-15% solids by weight and passed through a 0.5mm stainless steel screen. The oversize material is collected, dried and weighed.

The minus 0.5mm material reports to a stainless steel holding tank where under strict pH and slurry density control the material is hydrocycloned to achieve a pre-determined particle size classification.

Cyclone underflow material is allowed to settle with the supernatant water syphoned and removed. The resultant sediment is collected, dried and weighed.

Cyclone overflow material is collected in a stainless steel holding tank and the material filtered through (for laboratory purposes) a plate and frame filter. Filtering aids may be added dependent upon the speed of filtering. At the end of the filter process the filter papers are dried in an oven at low temperatures.

8.2.2 Dry Process.

Sufficient high shear forces are applied to the oven dried cyclone overflow material to disaggregate any lumps formed during the oven drying. This then constitutes the beneficiated material.

8.2.3 Chemical Analysis.

The iron and manganese chemical analyses are achieved using conventional wet chemical procedures.

However in order to facilitate the digestion of the sample, without the use of conventional hotplates and fume cupboards, the BHP Central Research Laboratories at Shortland, developed for Savage a digestion process that induces the boiling of the chemical solutions by the input of energy from a microwave source.

8.2.4 Minolta Chromameter Analysis.

The beneficiated material is loosely placed on to the surface of the material and a reading is taken. After the completion of this recording the chromameter is removed and its surface lens cleaned prior to its placement back on to the now slightly compacted surface of the material. A second reading is taken.

The average of the first and second readings is recorded for the whiteness (L), redness (a), yellowness (b), chroma (C) and hue angle (Ho).

Laboratory reports for the samples processed are presented in appendix 2.

8.3 Discussion.

The process route by which this beneficiated material has been produced has not been without its share of difficulties. Nevertheless the process route has now been optimised.

The scatter of the iron values was expected and its range merely reflects the choice of clay-rich as well as iron-rich sample material for the test work.

The colours displayed by the beneficiated material reflect the original colours of the sample material. However the small degree of size beneficiation has the effect of reducing the range of colours seen in the beneficiated material.

The beneficiation has essentially occurred through particle size differentiation of the original sample material. This material will now form the basis for a second stage of beneficiation which is intended to exploit the differing surface chemical characteristics

of pigmentary minerals and gangue to achieve purified products.

9.0 Surpac program data processing

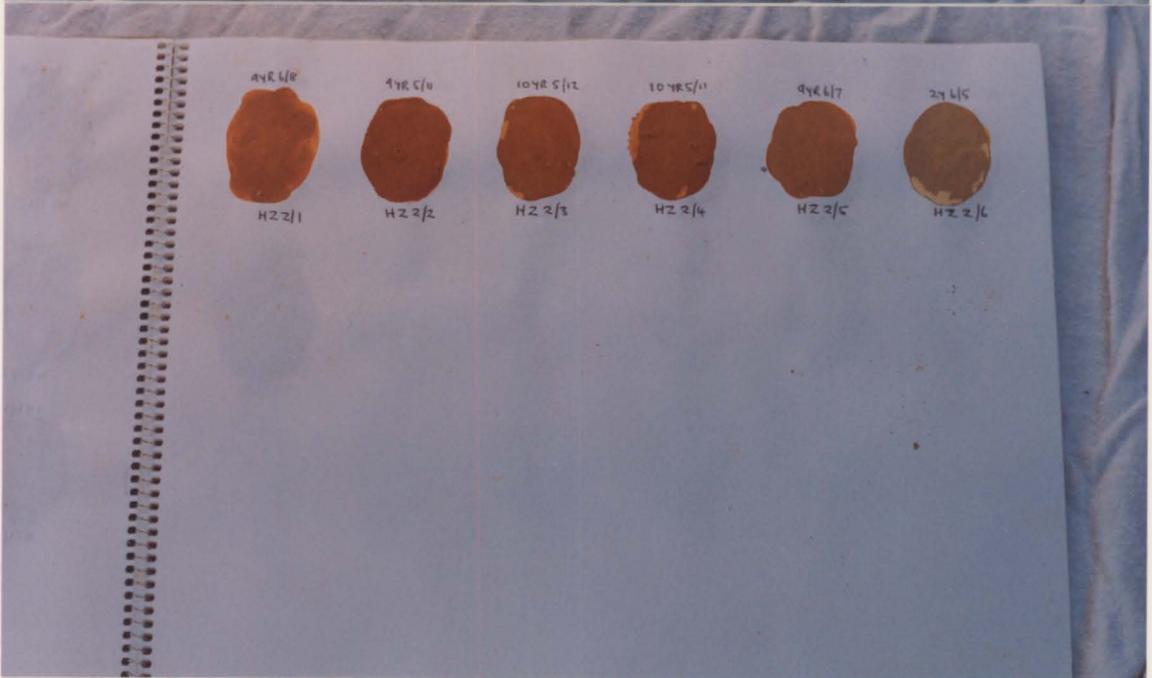
The database includes location and log information from the drilling logs and is kept up to date by incorporating data from the laboratory work. It was used in compiling the previous resource estimate. An up-to-date printout of drillhole sections is presented in appendix 3.

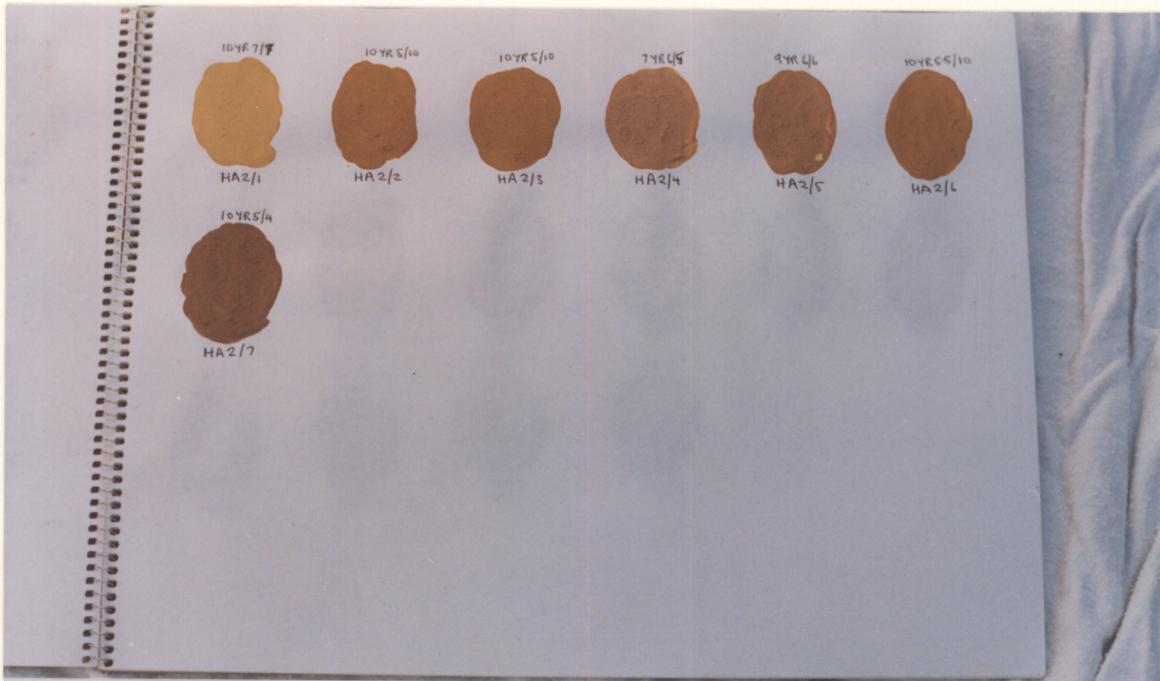
10.0 References.

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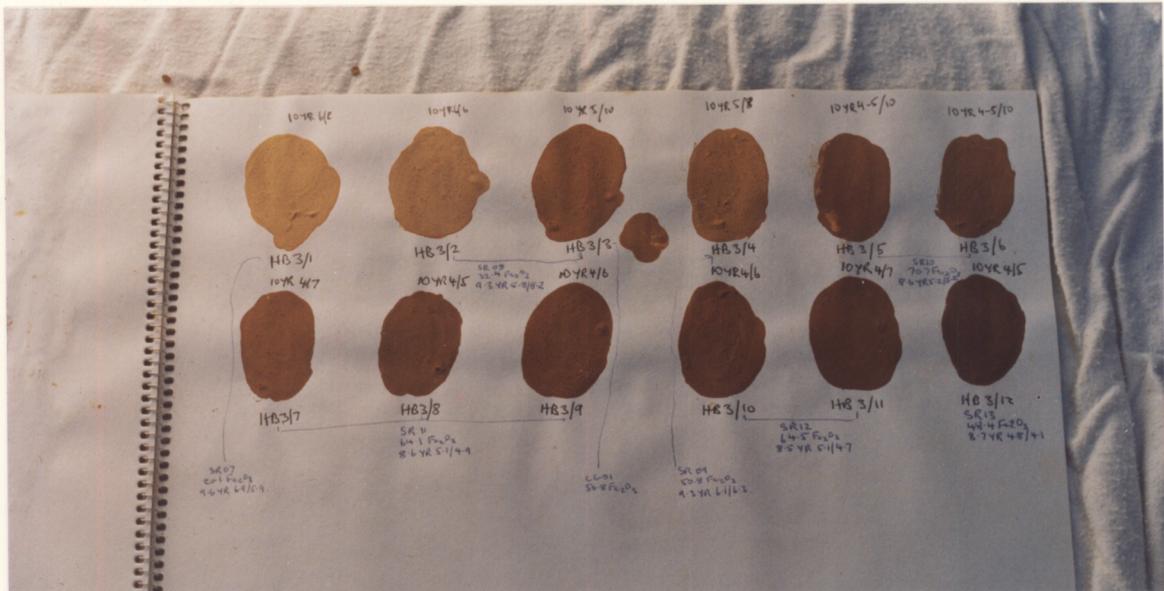
APPENDIX 1: PLATES OF SAMPLE
COLOURS

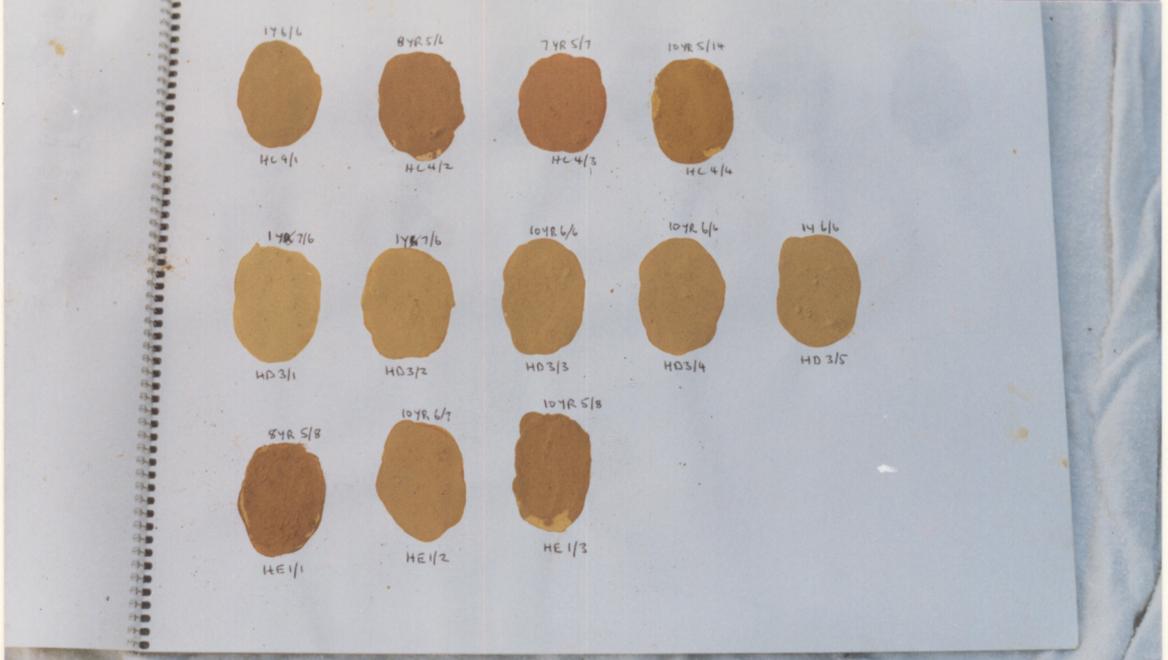
HZ1/1 - HZ1/13	30
HZ2/1 - HZ2/6	30
HA1/1 - HA1/17	30
HA2/1 - HA2/7	31
HA3/1 - HA3/16	31
HA4/1 - HA4/15	31
HA5/1 - HA5/17	32
HB1/1 - HB1/18	32
HB2/1 - HB2/13	32
HB3/1 - HB3/12	33
HC1/1 - HC1/13	33
HC2/1 - HC2/10	33
HC3/1 - HC3/6	34
HC4/1 - HC4/4	34
HD3/1 - HD3/5	34
HE1/1 - HE1/3	34
HC5/1 - HC5/20	34
HD1/1 - HD1/10	35
HD2/1 - HD2/5	35
HE2/1 - HE2/8	35
HE3/1 - HE3/9	35

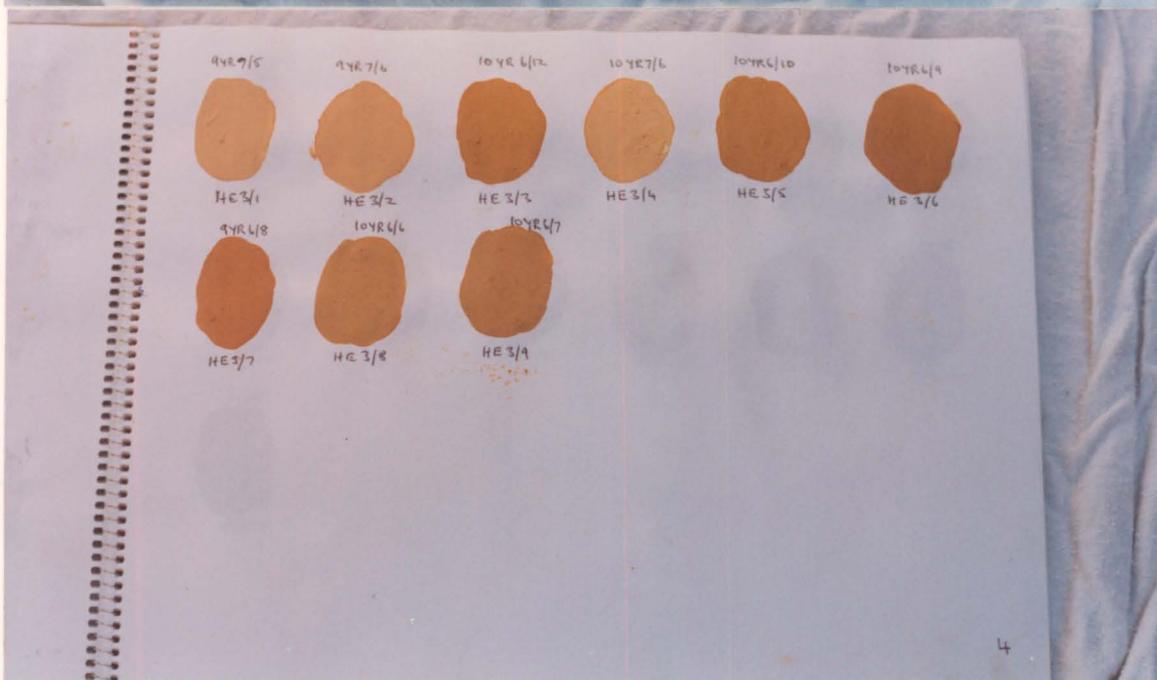
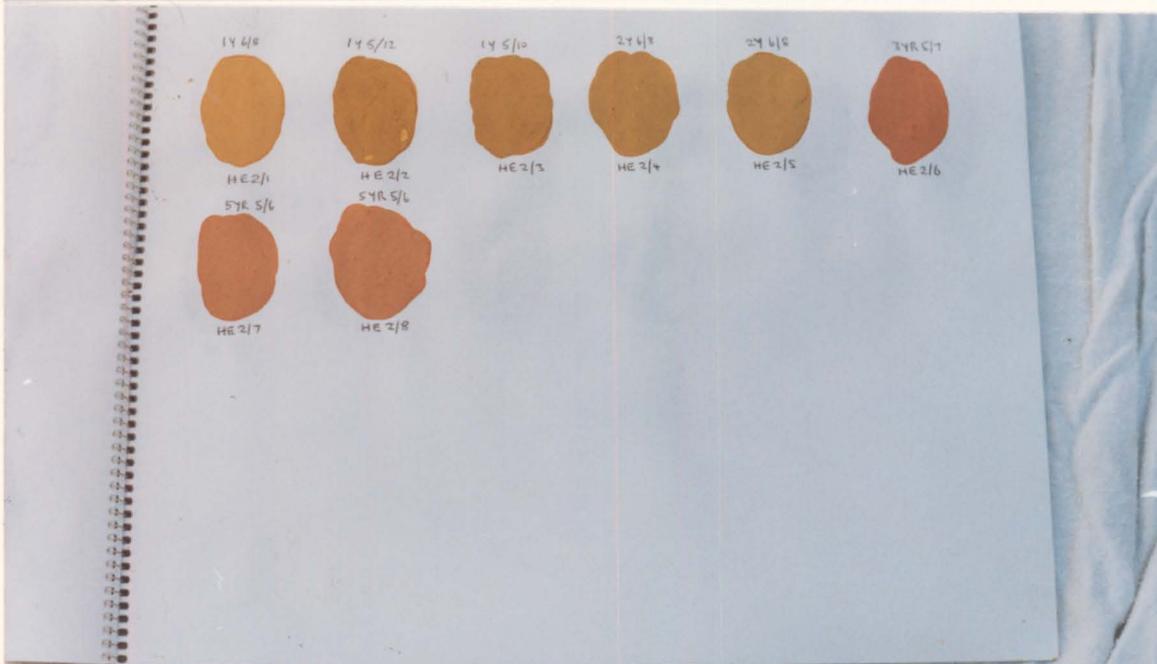












APPENDIX 2: LABORATORY SAMPLE DATA

SR01	38
SR02	39
SR03	40
SR04	41
SR05	42
SR06	43
SR07	44
SR08	45
SR09	46
SR10	47
SR11	48
SR12	49
SR13	50
SR14	51
SR15	52
SR16	53
SR17	54
SR18	55
SR19	56
SR20	57
SR21	58
SR22	59
SR23	60
SR24	61
SR25	62
SR26	63
SR27	64
SR28	65
SR29	66
SR30	67

SR31	68
SR32	69
SR33	70
SR34	71
SR35	72
SR36	73
SR37	74
SR38	75
SR39	76
SR40	77
SR41	78
SR42	79
SR43	80
SR44	81
SR45	82
SR46	83
SR47	84
SR48	85
SR49	86
SR50	87
SR51	88
SR52	89
SR53	90
SR54	91
SR55	92
SR56	93
SR57	94
SR58	95
SR59	96
SR60	97
SR61	98
SR62	99
SR63	100
SR64	101
SR65	102

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..Apr 3,90 Laboratory #..SR01

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5X0.01 %	of - 12 mm -0.01 %	Losses %
HT5/1	20500	15.9	2.4	9.5	48.4	37.8	4.3

Chemical Analysis Report :-

Fe₂ O₃ 93.1%
Mn 0.13%

Chemists Description of Product :-

Hue..Grey yellow Greyness..Visibly grey
Chroma..Good Attractiveness..Not impressive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
59.92	8.76	41.56	46.93	78.4

Filtration Comments :-

Paper Grade..27 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	nd
2	
3	
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..Apr 5,90 Laboratory #..SR02

<u>Bore - Cores</u>							
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HB 2/1	6000	18.3	0.4	8.5	17.4	54.9	19.3
HB 2/2	6500						
HB 2/3	5500						

Chemical Analysis Report :

Fe2 O3 54.8%

Mn 0.29%

Chemists Description of Product :-

Hue..Yellowish orange Greyness..There is a dirtyness
 Chroma..Poor - dull Attractiveness..Not pleasing

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
61.69	8.55	39.95	40.85	78.0

Filtration Comments :-

Paper Grade..27 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	nd
2	
3	
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 6,90 Laboratory #..SR03

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>		<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
HB 2/ 4	4500	16.3	0.2	13.9	34.2	39.9	12.0	
HB 2/ 5	5500							

Chemical Analysis Results :

Fe₂ O₃ 34.8%

Mn 0.33%

Chemists Description of Product :-

Hue..Brown Greyness..Fairly clean
Chroma..Fair (for a brown) Attractiveness..Nice colour

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
54.57	8.70	28.66	33.82	75.2

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	10
2	21
3	26
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 6,90 Laboratory #..SR04

Bore Core #	Mass gr g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HB 2/12	11000	18.5	0.3	21.9	12.6	59.0	6.5
HB 2/13	6000						

Chemical Analysis Results :-

Fe2 O3 26.8%

Mn 0.54%

Chemists Description of Product :-

Hue..Pale brown Greyiness..not a lot of greyiness
Chroma..Average / poor Attractiveness..Good colour

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
56.71	7.78	27.04	30.17	75.0

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n (very hard filter-cake)

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	10
2 (1/2)	4
3	20
4 (1/2)	3
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 11,90 Laboratory #..SR06

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5x0.01 %	of - 12 mm -0.01 %	Losses %
HB 2/ 9	11500	8.2	0.2	18.7	25.2	33.8	22.3
HB 2/10	4500						
HB 2/11	6500						

Chemical Analysis Report :-

Fe2 O3 23.1%
Mn 0.36%

Chemists Description of Product :-

Hue..Light brown, slightly yellow Greyness..Quite grey
Chroma..Dull Attractiveness..O.K.

Product Chroma-Meter Readings :-

L	+a	+b	C	Ho
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
59.17	7.62	29.49	32.87	77.5

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	8
2	24
3	9
4 (3/4)	8 * (leakage of 1.25 L)
5	20
6	7
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 17, 90 Laboratory #..SR07

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of	- 12 mm	Losses
					-0.5X0.01 %	-0.01 %	
HB 3/ 1	10000	17.2	0.1	8.1	32.7	49.9	9.3

Chemical Analysis Report :-

Fe₂ O₃ 20.1%

Mn 0.03%

Chemists Description of Product :-

Hue..Pale yellow Greyness..Quite white
 Chroma..Good Attractiveness..Good

Product Chroma-Meter Readings :-

L	+a	+b	C	Ho
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
69.96	7.34	37.33	38.96	80.1

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	59 (changed filter-paper)
2	61 (changed filter-paper)
3	65
4	5
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 18,90 Laboratory #..SR08

<u>Bore - Cores</u>							
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size</u>		<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HB 3/ 2	6000	5.1	0.8	11.9	29.1	47.1	11.9
HB 3/ 3	1200						

Chemical Analysis Report :-

Fe2 O3 32.4%

Mn 0.37%

Chemists Description of Product :-

Hue..Yellow / orange Greyness..Clean
 Chroma..Average Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
59.23	8.02	32.27	37.53	77.8

Filtration Comments :-

Paper Grade..27 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	109 (changed filter paper)
2	23
3	20 (changed filter paper)
4	3
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 19,90 Laboratory #..SR09

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HB 3/ 4	1800	15.3	1.3	8.7	21.4	61.0	8.9

Chemical Analysis Report :-

Fe₂ O₃ 50.8%
Mn 0.33%

Chemists Description of Product :-

Hue..Yellowish / orange Greyness..Clean colour
Chroma..Good Attractiveness..Good colour

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
61.78	9.30	39.53	43.15	77.7

Filtration Comments :- Soft filter-cake

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	4
2	10
3	13
4 (300 ml not filtered)	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 19, 90 Laboratory #..SR10

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
HB 3/ 5	10800	5.7	0.7	7.3	14.8	58.9	18.9
HB 3/ 6	5500						

Chemical Analysis Report :-

Fe₂ O₃ 70.7%

Mn 1.57%

Chemists Description of Product :-

Hue..Yellowish /brown Greyness..Quite grey
 Chroma..Poor Attractiveness..Below average

Product Chroma-Meter Readings :-

L	+a	+b	C	Ho
Whiteness	Redness	Yellowness	Chroma	Hue Angle
52.63	9.70	31.67	35.74	74.3

Filtration Comments :- Soft filter-cake

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	7
2	16 (changed filter paper)
3	11
4	9
5	3
6	6
7 (1/2)	5
8 (1.5 Lv lost with leaks & 150 ml not filtered)	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 24, 90 Laboratory #..SR11

<u>Bore - Cores</u>								
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HB 3/ 7	15000	20.0	0.3	13.0	22.3	50.0	14.6	
HB 3/ 8	14000							
HB 3/ 9	6000							

Chemical Analysis Report :-

Fe2 O3 64.1%
Mn 1.88%

Chemists Description of Product :-

Hue..Yellowish / brown Greyness..Slightly grey
Chroma..Good Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
52.11	9.16	29.76	33.71	73.6

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	4
2	13
3	4
4	2
5	5
6 (100 ml not filtered)	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 26, 90 Laboratory #..SR12

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HB 3/10	6500	17.8	0.3	11.5	20.8	46.5	21.2
HB 3/11	8000						

Chemical Analysis Report :-

Fe2 O3 64.5%
Mn 1.96%

Chemists Description of Product :-

Hue..Brownish /yellow Greyness..Even colour
Chroma..Average Attractiveness..No

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
51.26	9.15	28.74	32.70	73.5

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	3
2	7
3	5
4	8
5	10
6 (250 ml not filtered)	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 26, 90 Laboratory #..SR13

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
HB 3/12	6500	14.6	0.4	21.8	36.3	28.1	13.7

Chemical Analysis Report :-

Fe2 O3 48.4%
Mn 2.68%

Chemists Description of Product :-

Hue..Yellow Greyness..Slightly grey
Chroma..Good Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
48.89	7.86	25.10	29.06	74.3

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	23
2	3
3	4
4	2
5	4
6	3
7 (125 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..April 30, 90 Laboratory #..SR14

		<u>Bore - Cores</u>					
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size</u>	<u>Distribution of - 12 mm</u>		
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HA 4/ 4	3500	3.4	0.3	8.9	53.4	16.1	21.6

Chemical Analysis Report :-

Fe2 O3 34.2%

Chemists Description of Product :-

Hue..Yellow Greyiness..Slight
 Chroma..Good Attractiveness..Very good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>
65.52	9.21	38.52	na	na

Filtration Comments :-Tough filter-cake

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	30
2	93
3	192
4	? - filtered over-night
5	(80 ml not filtered)
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analyzed: May 1, 90 Laboratory #: SR15

Bore - Cones

Bore Core #	Mass gr g	H2O gr %	G/size +12mm %	Size distribution of 12*0.5 %	-0.5*0.01 %	-0.01 %	-12mm Losses %
HA4/2	6500	12.6	0.5	16.9	47.6	-	-

Chemical Analysis Report :-

Fe2O3

Mn

Chemist's Description of Product :-

Hue Greyness
Chroma Attractiveness

Product Chroma-meter Readings :-

L	+a	+b	C	H ₀
Whiteness	Redness	Yellowness	Chroma	Hue Angle
-	-	-	-	-

Filtration Comments :-

Paper Grade :- Additive Y/N :-

Filtrate Vol #	Time (mins)
1	210
2	235 half filtered
3	70

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 2, 90 Laboratory #..SR16

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5X0.01 %	of - 12 mm -0.01 %	Losses %
HC 1/ 1	6000	14.7	0.6	30.1	30.5	35.1	4.3
HC 1/ 2	4000						

Chemical Analysis Report :-

Fe2 O3 22.4%

Chemists Description of Product :-

Hue..Yellow Greyness..Quite white
 Chroma..Good Attractiveness..Fair

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z7 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	194
2	filtered over-night
3	260
4	1260
5	1320
6	(150 ml not filtered)
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 4, 90 Laboratory #..SR17

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size Size Distribution of - 12 mm</u>						
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
HC 1/ 4	3500	14.0	1.8	23.4	32.7	31.1	13.0	

Chemical Analysis Report :-

Fe2 O3 38.3%

Chemists Description of Product :-

Hue..Yellowish / brown Greyness..Clean
 Chroma..Good Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..27 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	3
2	8
3	15
4	22
5 (300 ml not filtered)	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 9, 90 Laboratory #..SR18

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size</u>		<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>	
#	g	%	%	%	%	%	%	
HZ 2/ 1	3500	19.5	0.4	21.3	49.7	27.5	1.5	
HZ 2/ 2	6500							
HZ 2/ 3	11500							

Chemical Analysis Report :-

Fe2 O3 42.2%

Chemists Description of Product :-

Hue..Deep orange Greyness..Neutral
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..27 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	115
2	470
3	filtered over-night
4	filtered over-night
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 10, 90 Laboratory #..SR19

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size</u>		<u>Size Distribution of - 12 mm</u>			<u>Losses</u>	
<u>Core</u>	<u>gr</u>	<u>gr</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>		
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
HZ 1/ 1	6000	11.3	0.3	13.5	52.8	27.9	5.7	
HZ 1/ 2	4000							

Chemical Analysis Report :-

Fe2 O3 38.3%

Chemists Description of Product :-

Hue..Brownish orange Greyness..Slightly grey
 Chroma..Average Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-Difficult filtration

Paper Grade..1 & 2 = Z7, bal. = Z9 Additive Y/N..+3 = y

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	165
2	filtered over-night
3	183
4	305
5	10
6	147
7	(1130 ml not filtered)
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 11, 90 Laboratory #..SR20

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm -0.5X0.01 %	-0.01 %	Losses %
HE 3/ 3	6500	6.8	1.4	16.0	35.4	42.2	6.4
HE 3/ 5	6500						

Chemical Analysis Report :-

Fe2 O3 40.3%

Chemists Description of Product :-

Hue..Reddish brown Greyness..Clean
 Chroma..Average Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	110
2	183
3 (1/2)	10
4	50
5	29
6 (125 ml not filtered)	
7	
8	
9	
10	

Savage Resources Limited
Main Creek Pigment - Laboratory Report

Date Analysed..May 21, 90 Laboratory #..SR21

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5X0.01 %	of - 12 mm -0.01 %	Losses %
JH 10	10000	9.1	1.1	15.1	35.6	37.4	11.9

Chemical Analysis Report :-

Fe2 O3 25.9%

Chemists Description of Product :-

Hue..Brown / yellow Greyiness..Very white
 Chroma..Poor Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	46
2	180 (changed filter paper)
3	170
4	50
5	10
6	35
7	8
8	21
9	20
10 (400 ml not filtered)	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 23, 90 Laboratory #..6R22

		<u>Bore - Cores</u>					
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HZ 1/ 4	4500	3.3	0.9	14.5	45.5	28.1	12.0
HZ 1/ 5	4500						

Chemical Analysis Report :-

Fe2 O3 31.8%

Chemists Description of Product :-

Hue..Yellowish orange Greyness..Slightly white
 Chroma..Average / good Attractiveness..Good colour

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	32
2	115
3	211
4	230
5 (120 ml not filtered)	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 25, 90 Laboratory #..SR23

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm -0.5x0.01 %	-0.01 %	Losses %
JH 10	12000	5.4	1.5	14.4	30.2	46.4	9.0

Chemical Analysis Report :-

Fe2 O3 23.6%

Chemists Description of Product :-

Hue..Brown / yellow Greyness..Quite white
 Chroma..Poor Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	15
2	30
3	25
4	179
5	60
6	45
7	20
8	44
9	45
10	6
11	13

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..May 30, 90 Laboratory #..SR24

Bore Core #	Mass ar g	<u>Bore - Cores</u>		<u>Size Distribution of - 12 mm</u>			
		H2 O ar %	O/size +12mm %	12x0.5 %	-0.5X0.01 %	-0.01 %	Losses %
JH 10	11000	5.5	0.9	14.9	41.6	41.4	2.0

Chemical Analysis Report :-

Fe2 O3 23.6%

Chemists Description of Product :-

Hue..Brown / yellow Greyness..Whitish
 Chroma..Good Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	60
2	50
3	29
4 (filtered over-night)	
5	25
6	180
7	15
8	54
9	9
10	19
11 (4/9)	20

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 1, 90 Laboratory #..SR25

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size Size Distribution of - 12 mm</u>						
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
JH 10	10500	6.4	1.3	13.8	41.9	39.1	5.2	

Chemical Analysis Report :-

Fe2 O3 23.9%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Whitish
 Chroma..Average / good Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	25
2	32
3	52
4	24
5	87
6	96
7	10
8	50
9	56
10 (200 ml not filtered)	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 4, 90 Laboratory #..SR26

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5X0.01 %	of - 12 mm -0.01 %	Losses %
HD 1/ 2	7500	4.0	0.7	10.0	36.5	39.7	13.9
HD 1/ 3	5000						
HD 1/ 4	3000						

Chemical Analysis Report :-

Fe2 O3 53.3%

Chemists Description of Product :-

Hue..Orange Greyness..Not light or dark
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	125
2	40
3	81
4 (filtered over-night)	
5	155
6	94
7 (160 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 6, 90 Laboratory #..SR27

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5x0.01 %	-0.01 %	
JH 10	11500	5.2	1.3	15.0	43.3	41.7	nil

Chemical Analysis Report :-

Fe2 O3 23.2%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Whiter than other JH 10's
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :- Relative Density of slurry = 1.373

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>	<u>#</u>	<u>(Mins)</u>
1	25	11	60
2	39	12	14
3	125	13	27
4	80	14 (4/9)	25
5	150		
6	11		
7	50		
8	65		
9	12		
10	26		

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 13, 90 Laboratory #..SR28

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of -0.5X0.01 %	- 12 mm -0.01 %	Losses %
HB 3/12	5000	8.8	nil	21.4	47.6	31.7	0.6

Chemical Analysis Report :-

Fe2 O3 51.3%

Chemists Description of Product :-

Hue..Dark brown / yellow Greyness..Slightly grey
 Chroma..Good Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	7
2	33
3	4
4	24
5 (2/3)	14
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 14, 90 Laboratory #..SR29

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
JH 10	11000	4.0	1.5	14.3	43.8	41.5	0.4

Chemical Analysis Report :-

Fe2 O3 27.2%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Slightly white
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :- Slurry Relative Density = 1.173

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	24
2	55
3	115
4	56
5	18
6	68
7	34
8	42
9	15
10	14

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SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

131065

Date Analysed..June 20, 90 Laboratory #..SR30

<u>Bore - Cores</u>							
<u>Bore Core #</u>	<u>Mass ar g</u>	<u>H2 O O/size Size Distribution of - 12 mm</u>					
		<u>ar %</u>	<u>+12mm %</u>	<u>12x0.5 %</u>	<u>-0.5x0.01 %</u>	<u>-0.01 %</u>	<u>Losses %</u>
HC 1/ 5	?	5.7	Nil	28.0	35.0	24.3	12.8
HC 1/ 6	?						
	8000						

Chemical Analysis Report :-

Fe2 O3 23.6%

Chemists Description of Product :-

Hue..Yellowish brown Greyness..Pale but dirty
 Chroma..Below average Attractiveness..Un-attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	15
2	13
3	3
4	9
5	7
6	13
7	17
8 (4/9)	9
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 20, 90 Laboratory #..SR31

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
HD 1/ 2	6400	4.5	nil	10.8	47.3	34.0	7.9

Chemical Analysis Report :-

Fe2 O3 52.2%

Chemists Description of Product :-

Hue..Dark yellow brown Greyness..Clean
 Chroma..Good / excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..1 = n : bal = y

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	225
2	?
3	165
4	50
5	76
6 (5/9)	76
7 (250 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 25, 90 Laboratory #..SR32

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
HD 1/ 3	3900	5.0	nil	9.7	41.8	40.2	8.3
HD 1/ 4	900						

Chemical Analysis Report :-

Fe2 O3 57.0%

Chemists Description of Product :-

Hue..Golden yellow Greyness..Slightly grey
 Chroma..Excellent Attractiveness..Very attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	65
2	25
3	73
4	25
5	80
6 (2/3)	67
7 (200 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 27, 90 Laboratory #..SR33

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of ~ 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HD 1/ 7	13000	9.3	0.3	9.1	33.2	49.6	8.1
HD 1/ 8	11500						

Sample Bulk Density HD 1/7 = 723 kg / t
 HD 1/8 = 773 kg / t

Chemical Analysis Report :-

Fe2 O3 26.2%

Chemists Description of Product :-

Hue..Pink yellowish Greyness..Some whiteness
 Chroma..Poor Attractiveness..O.K. but different

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	15
2	10
3	28
4	12
5	23
6 (75 ml not filtered)	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..June 29, 90 Laboratory #..SR34

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
HD 1/ 5	1700	11.3	nil	13.0	29.7	47.1	10.2	
HD 1/ 6	5500							

Chemical Analysis Report :-

Fe2 O3 73.0%

Chemists Description of Product :-

Hue..Yellow brown Greyness..Clean
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	16
2	7
3	17
4	30
5	54
6	8
7	18
8	22
9	27
10 (250 ml not filtered)	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 3, 90 Laboratory #..SR35

		<u>Bore - Cores</u>					
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size</u>	<u>Distribution of - 12 mm</u>		
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HQ 3/ 2	5500	5.4	3.3	27.9	39.7	21.8	10.6

Sample Bulk Density = 800 kg / t

Chemical Analysis Report :-

Fe2 O3 49.6%

Chemists Description of Product :-

Hue..Brownish yellow Greyness..Clean
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	23
2	70
3	(filtered over-night)
4	121
5	26
6	25
7	(filtered over-night)
8	208
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 4, 90 Laboratory #..SR36

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HQ 3/ 3	5000	7.3	0.9	18.7	32.4	37.7	11.3	
HQ 3/ 4	10500							

HQ 3/3 Sample Bulk Density = 827 kg / t

HQ 3/4 Sample Bulk Density = 1027 kg / t

Chemical Analysis Report :-

Fe2 O3 54.4%

Chemists Description of Product :-

Hue..Yellow reddish Greyness..Neutral
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	16
2	49
3	15
4	27
5	40
6	10
7	5
8	25
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 9, 90 Laboratory #..SR37

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HQ 3/ 5	16500	2.8	0.7	20.3	45.8	30.5	3.4	
HQ 3/ 6	9500							

HQ 3/5 Bulk Density = 973 kg / t

HQ 3/6 Bulk Density = 873 kg / t

Chemical Analysis Report :-

Fe2 O3 21.3%

Chemists Description of Product :-

Hue..Yellow brown Greyiness..Pale
 Chroma..Poor Attractiveness..Good colour

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	5
2	15
3	8
4	2
5 (4/9)	4
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

131073

Date Analysed..July 10, 90 Laboratory #..SR38

<u>Bore - Cores</u>								
<u>Bore</u> <u>Core</u> <u>#</u>	<u>Mass</u> <u>ar</u> <u>g</u>	<u>H2 O O/size Size Distribution of - 12 mm</u>						
		<u>ar</u> <u>%</u>	<u>+12mm</u> <u>%</u>	<u>12x0.5</u> <u>%</u>	<u>-0.5X0.01</u> <u>%</u>	<u>-0.01</u> <u>%</u>	<u>Losses</u> <u>%</u>	
HQ 3/ 7	13000	2.8	0.2	11.7	46.1	38.3	4.0	

HQ 3/7 Bulk Density = 973 kg / t

Chemical Analysis Report :-

Fe2 O3 14.4%

Chemists Description of Product :-

Hue..Yellow orange Greyness..Pale
 Chroma..Good to excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	9
2	61
3	53
4 (5/9)	70
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 13, 90 Laboratory #..SR39

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5X0.01 %	of - 12 mm -0.01 %	Losses %
HQ 3/ 8	10000	9.8	0.9	11.2	40.7	42.2	6.0
HQ 3/ 9	9000						

HQ 3/8 Bulk Density = 1073 kg / t
 HQ 3/9 Bulk Density = 1123 kg / t

Chemical Analysis Report :-

Fe2 O3 ? %

Chemists Description of Product :-

Hue..Yellow brown Greyness..Very pale
 Chroma..Poor / good Attractiveness..Good colour

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	6
2	21
3	6
4 (5/9)	13
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 17, 90 Laboratory #..SR40

<u>Bore - Cores</u>							
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size</u>		<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HQ 3/13	3000	3.0	4.6	24.6	27.7	36.8	10.0

HQ 3/13 Bulk Density = 873 kg / t

Chemical Analysis Report :-

Fe₂ O₃ 44.6%

Chemists Description of Product :-

Hue..Dark brown - yellow Greyness..Slightly grey
 Chroma..Good - excellent Attractiveness..Poor

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	8
2	25
3	2
4	4
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 19, 90 Laboratory #..SR41

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
HQ 3/10	12500	3.0	0.9	17.3	43.9	34.0	4.8
HQ 3/11	6500						
HQ 3/12	10000						

HQ 3/10 Bulk Density = 1123 kg / t
 HQ 3/11 Bulk Density = 1173 kg / t
 HQ 3/12 Bulk Density = 1123 kg / t

Chemical Analysis Report :-

Fe2 O3 18.5%

Chemists Description of Product :-

Hue..Yellow orange Greyness..Pale
 Chroma..Good Attractiveness..Good

Product Chroma-Meter Readings :-

L	+a	+b	C	Ho
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	8
2	47
3	6
4	8
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..July 25, 90 Laboratory #..SR42

<u>Bore - Cores</u>							
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HQ 4/ 2	15500	6.5	3.0	12.9	46.8	38.1	2.2
HQ 4/ 3	21000						
HQ 4/ 4	19000						
HQ 4/ 5	15500						

Bulk Density (kg/t): HQ 4/2 = 1279; HQ 4/3 = 966
 HQ 4/4 = 1029; HQ 4/5 = 966

Chemical Analysis Report :-

Fe2 O3 71.4%

Chemists Description of Product :-

Hue..Yellow orange Greyness..Slightly dirty
 Chroma..Good / excellent Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	18
2	57
3	25
4	17
5	12
6	20
7 (450 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 2, 90 Laboratory #..SR43

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5X0.01 %	-0.01 %	Losses %
HQ 4/ 6	17000	7.6	4.3	9.1	38.8	50.4	1.7
HQ 4/ 7	12500						
HQ 4/ 8	8000						

Bulk Density (kg/t) HQ 4/6 = 966; HQ 4/7 = 904; HQ 4/8 = 904

Chemical Analysis Report :-

Fe2 O3 82.3%

Chemists Description of Product :-

Hue..Orange brown Greyiness..Neutral
Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	17
2 (filter paper changed)	?
3	25
4	5
5	10
6	9
7	16
8 (200 ml not filtered)	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 10, 90 Laboratory #..SR44

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm -0.5X0.01 %	-0.01 %	Losses %
HQ 4/10	5500	8.0	3.8	23.9	36.2	37.2	2.6
HQ 4/11	5500						
HQ 4/12	1100						
HQ 4/13	13500						

Bulk Density (kg/t) HQ 4/10 = 904; HQ 4/11 = 966
HQ 4/12 = 716; HQ 4/13 = 1154

Chemical Analysis Report :-

Fe2 O3 78.2%

Chemists Description of Product :-

Hue..Orange yellow Greyness..Neutral
Chroma..Good / excellent Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	7
2	25
3	9
4	24
5	30
6 (6/9)	29
7 (250 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 16, 90 Laboratory #..SR45

<u>Bore - Cores</u>								
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size</u>	<u>Distribution of - 12 mm</u>			<u>Losses</u>
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5x0.01</u>	<u>-0.01</u>		
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HQ 5/ 5	13500	7.5	2.2	20.5	40.5	36.0		3.0
HQ 5/ 6	3000							

Chemical Analysis Report :-

Fe2 O3 54.1

Chemists Description of Product :-

Hue..Orange Greyiness..Light
 Chroma..Excellent Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	17
2	5
3	14
4	17
5	16
6 (100 ml not filtered)	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 20, 90 Laboratory #..SR46

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
HQ 5/ 7	700	3.5	2.3	20.5	40.5	36.0	3.0	
HQ 5/ 8	1000							

Chemical Analysis Report :-

Fe2 O3 44.8%

Chemists Description of Product :-

Hue..Yellow brown Greyiness..Pale
 Chroma..Good Attractiveness..Good

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	6
2	14
3	15
4 (3/9)	14
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 22, 90 Laboratory #..SR47

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 nm -0.5X0.01 %	-0.01 %	Losses %
HQ 5/ 9	4500	9.0	1.4	10.3	39.9	43.8	5.6

Chemical Analysis Report :-

Fe2 O3 69.4%

Chemists Description of Product :-

Hue..Yellow orange Greyness..Slightly grey
 Chroma..Good / excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	15
2	22
3	5
4	3
5	3
6	5
7 (6/9)	4
8 (200 ml not filtered)	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 23, 90 Laboratory #..SR48

		<u>Bore - Cores</u>						
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	
HQ 5/10	3500	2.5	0.3	7.1	36.3	53.3	3.3	
HQ 5/11	3000							

Chemical Analysis Report :-

Fe2 O3 74.8%

Chemists Description of Product :-

Hue..Yellow orange Greyness..Neutral
Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>HO</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	21
2	5
3	4
4	7
5	7
6	9
7 (5/9)	7
8 (150 ml not filtered)	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..August 28, 90 Laboratory #..SR49

Bore Core #	Mass gr	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HQ 5/12	3000	15.0	0.6	10.0	29.9	56.6	3.5
HQ 5/13	9500						
HQ 5/14	9500						
HQ 5/15	8000						

Chemical Analysis Report :-

Fe2 o# 73.9%

Chemists Description of Product :-

Hue..Orange Greyiness..Clean - neutral
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	5
2	7
3	33 (changed filter-paper)
4	4
5	2
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment Laboratory Report

Date Analysed..September 6, 90 Laboratory #..SR50

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5x0.01 %	of - 12 mm -0.01 %	Losses %
Bowry	9000	39.5	0.2	15.0	30.4	58.5	-3.9 *

* Mass gain ?

Chemical Analysis Report :-

Fe2 O3 Not Done

Chemists Description of Product :-

Hue..Dark brown / red Greyness..Dirty
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>	<u>#</u>	<u>(Mins)</u>
1	4	11	3
2	15	12	4
3	13	13	5
4	16	14 (6/9)	4
5	5		
6	2		
7	2		
8	3		
9	3		
10	5		

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..September 18, 90 Laboratory #..SR51

<u>Bore - Cores</u>							
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HA 4/ 5	10000	1.6	0.1	5.1	44.3	41.9	8.8
HA 4/ 6	300						

Chemical Analysis Report :-

Fe2 O3 23.0%

Chemists Description of Product :-

Hue..Yellow orange Greyiness..Pale
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	34
2	45
3	80
4	144
5	300
6 (3/9)	133
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..September 24, 90 Laboratory #..SR52

<u>Bore - Cores</u>							
<u>Bore</u>	<u>Mass</u>	<u>H2 O O/size</u>		<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HA 4/ 7	10500	1.5	0.2	4.4	40.6	53.8	1.2
HA 4/ 8	10500						

Chemical Analysis Report :-

Fe2 O3 27.1%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Dirty
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	37
2	15
3	55
4	60
5	36
6	68
7 (7/18)	24
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..October 2, 90 Laboratory #..SR53

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of -0.5X0.01 %	- 12 mm -0.01 %	Losses %
HA 5/ 1	4500	2.0	0.5	12.3	50.9	32.4	4.4
HA 5/ 2	6500						
HA 5/ 3	2800						

Chemical Analysis Report :-

Fe2 O3 61.2%

Chemists Description of Product :-

Hue..Yellow brown Greyiness..Clean
Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..y = 35 ml / L

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	64
2	104
3	102
4	93
5 (7/18)	108
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..October 8, 90 Laboratory #..SR54

Bore Core #	Mass ar g	Bore - Cores					
		H ₂ O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		
					-0.5x0.01 %	-0.01 %	Losses %
HA 4/ 9	14000	4.7	0.6	10.6	40.5	47.0	1.9
HA 4/10	7500						
HA 4/11	8000						

Chemical Analysis Report :-

Fe₂ O₃ 39.9%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Greyish
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	33
2	112
3	31
4 (3/9)	27
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..October 8, 90 Laboratory #..SR55

Bore Core #	Mass gr g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm -0.5x0.01 %	-0.01 %	Losses %
HA 5/ 4	3400	6.0	1.2	11.8	51.0	30.9	6.3

Chemical Analysis Report :-

Fe2 O3 53.3%

Chemists Description of Product :-

Hue..Yellow brown Greyness..Pale
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..y = 35 ml/L

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	53
2	83
3	187
4 (filtered over-night) ?	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..October 9, 90 Laboratory #..SR56

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HT 4	19000	12.0	3.5	9.8	26.2	27.4	36.6 *

* A large loss occurred due to filter problems

Chemical Analysis Report :-

Fe2 O3 73.9%

Chemists Description of Product :-

Hue..Yellow Greyness..Clean
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..y = 35 ml / L

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	126
2	39
3	32
4	40
5	118
6	123
7 (75 ml not filtered)	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 2, 90 Laboratory #..SR57

Bore Core #	Mass ar g	Bore - Cores					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm		Losses %
					-0.5X0.01 %	-0.01 %	
HC 1/ 7	3500	4.5	0.3	16.6	44.5	37.8	1.1
HC 1/ 8	5500						

Chemical Analysis Report :-

Fe2 O3 20.6%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Pale & dirty
 Chroma..Poor / good Attractiveness..Good

Product Chroma-Meter Readings :-

L	+a	+b	C	Ho
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	10
2	30
3	7
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 9, 90 Laboratory #..SR58

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5x0.01 %	of - 12 mm -0.01 %	Losses %
HC 1/ 9	7500	3.0	0.8	12.4	37.9	46.2	3.5
HC 1/10	2800						

Chemical Analysis Report :-

Fe2 O3 12.1%

Chemists Description of Product :-

Hue..Yellow brown Greyness..Pale
 Chroma..Poor Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	12
2	7
3 (7/9)	22
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 9, 90 Laboratory #..SR59

Bore Core #	Mass ar g	Bore - Cores		Size Distribution of - 12 mm				Losses %
		H2 O ar %	O/size +12mm %	12x0.5 %	-0.5X0.01 %	-0.01 %		
HC 1/11	5000	5.0	nil	8.2	45.9	41.4	4.5	

Chemical Analysis Report :-

Fe2 O3 19.8%

Chemists Description of Product :-

Hue..Red pink Greyness..Pale
 Chroma..Good Attractiveness..Very attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	7
2	40
3	3
4 (2/9)	1
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 12, 90 Laboratory #..SR60

<u>Bore - Cores</u>								
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>				
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>	
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HC 4/ 1	1800	2.0	0.7	14.9	58.9	21.1	5.1	

Chemical Analysis Report :-

Fe2 O3 20.0%

Chemists Description of Product :-

Hue..Yellow Greyiness..Pale
 Chroma..Good Attractiveness..O.K.

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	15
2	34
3	50
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 11, 90 Laboratory #..SR61

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of -0.5X0.01 %	-12 mm -0.01 %	Losses %
HC 4/ 2	2800	10.5	0.7	20.3	39.6	35.0	5.1
HC 4/ 3	11000						

Chemical Analysis Report :-

Fe2 O3 19.2%

Chemists Description of Product :-

Hue..Orange Greyness..Pale
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	6
2	17
3	40
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 13, 90 Laboratory #..SR62

Bore Core #	Mass ar g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm -0.5X0.01 %	-0.01 %	Losses %
HC 4/ 4	2200	12.0	1.7	13.3	38.5	40.2	8.0

Chemical Analysis Report :-

Fe₂ O₃ 63.2%

Chemists Description of Product :-

Hue..Yellow Greyness..Clean
 Chroma..Excellent Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	4
2	9
3	18
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 14, 90 Laboratory #..SR63

Bore Core #	Mass gr g	<u>Bore - Cores</u>					
		H2 O ar %	O/size +12mm %	Size 12x0.5 %	Distribution -0.5X0.01 %	of - 12 -0.01 %	mm Losses %
HZ 1/ 6	13000	4.0	0.5	12.6	35.6	31.2	20.7
HZ 1/ 7	14500						
HZ 1/ 8	8500						
HZ 1/ 9	6000						

Chemical Analysis Report :-

Fe2 O3 24.6%

Chemists Description of Product :-

Hue..Brown yellow Greyness..Pale
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z(Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	24
2	16
3	8
4 (2/9)	3
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 15, 90 Laboratory #..SR64

Bore Core #	Mass ar g	<u>Bore - Cores</u>						
		H ₂ O ar %	O/size +12mm %	Size 12x0.5 %	Distribution of - 12 mm			Losses %
					-0.5X0.01 %	-0.01 %		
HZ 1/10	8000	7.5	1.6	17.8	31.8	41.8	8.6	
HZ 1/11	9000							

Chemical Analysis Report :-

Fe₂ O₃ 24.6%

Chemists Description of Product :-

Hue..Brown Greyness..Slightly pale
 Chroma..Good Attractiveness..Un-attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

Filtration Comments :-

Paper Grade..Z9 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	16
2	56
3	9
4	
5	
6	
7	
8	
9	
10	

SAVAGE RESOURCES LIMITED
Main Creek Pigment - Laboratory Report

Date Analysed..November 19, 90 Laboratory #..SR65

		<u>Bore - Cores</u>					
<u>Bore</u>	<u>Mass</u>	<u>H2 O</u>	<u>O/size</u>	<u>Size Distribution of - 12 mm</u>			
<u>Core</u>	<u>ar</u>	<u>ar</u>	<u>+12mm</u>	<u>12x0.5</u>	<u>-0.5X0.01</u>	<u>-0.01</u>	<u>Losses</u>
<u>#</u>	<u>g</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
HZ 3/ 2	5500	1.0	2.8	29.2	49.4	17.5	3.9
HZ 3/ 3	7500						

Chemical Analysis Report :-

Fe2 O3 33.3%

Chemists Description of Product :-

Hue..Brown yellow Greyiness..Pale
 Chroma..Good Attractiveness..Attractive

Product Chroma-Meter Readings :-

<u>L</u>	<u>+a</u>	<u>+b</u>	<u>C</u>	<u>Ho</u>
<u>Whiteness</u>	<u>Redness</u>	<u>Yellowness</u>	<u>Chroma</u>	<u>Hue Angle</u>

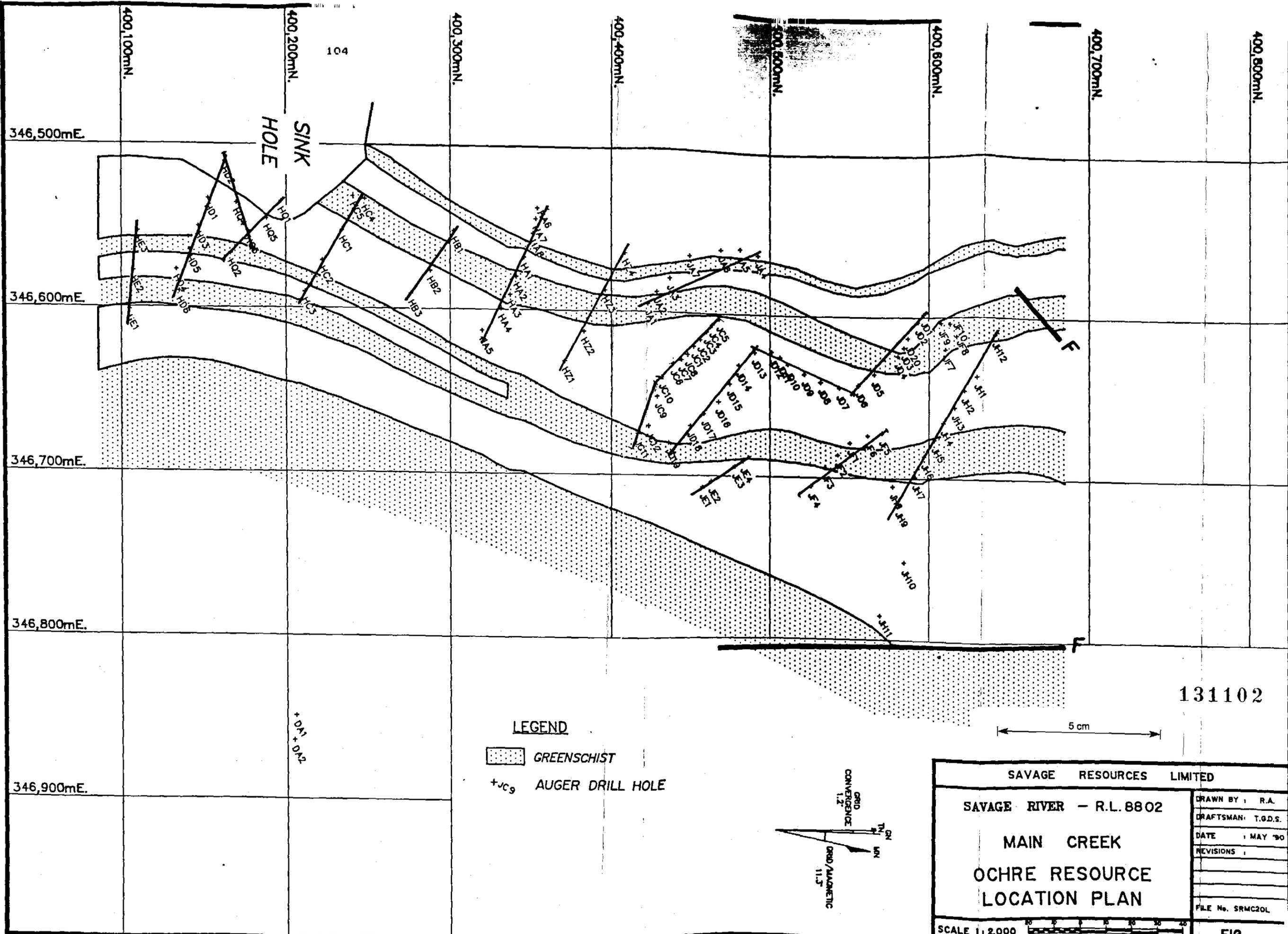
Filtration Comments :-

Paper Grade..29 Additive Y/N..n

<u>Filtrate Vol #</u>	<u>Time (Mins)</u>
1	14
2	44
3	62
4	
5	
6	
7	
8	
9	
10	

APPENDIX 3: COMPUTER BOREHOLE PROFILES

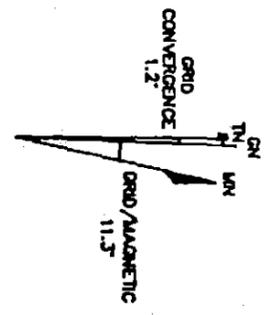
Main Creek Ochre Resource Location Plan	104
Profile JH12-JH1-JH2-JH3-JH4-JH5.	105
Profile JH5-JH6-JH7-JH8-JH9-JH10.	106
Profile JD1-JD2-JD20-JD3-JD4-JD5-JD6.	107
Profile JF5-JF6-JF1-JF2-JF3-JF4.	108
Profile JD13-JD12-JD11-JD10-JD9-JD8-JD7-JD6.	109
Profile JD13-JD14-JD15-JD16-JD17-JD18-JD19.	110
Profile JE4-JE3-JE2-JE1.	111
Profile JA4-JA5-JA6-JA7-JA3-JA2-JA1.	112
Profile JC5-JC4-JC3-JC2-JC1-JC8-JC7-JC6-JC10.	113
Profile JC10-JC9-JC12-JC11.	114
Profile HZ4-HZ3-HZ2-HZ1.	115
Profile HA6-HA7-HA8-HA1-HA2-HA3-HA4-HA5.	116
Profile HB1-HB2-HB3.	117
Profile HC4-HC5-HC1-HC2-HC3.	118
Profile HQ1-HQ5-HQ3-HQ2.	119
Profile HD2-HQ4-HQ3.	120
Profile HD2-HD1-HT5-HD3-HD5-HD4-HD6.	121
Profile HE3-HE2-HE1.	122



131102

LEGEND

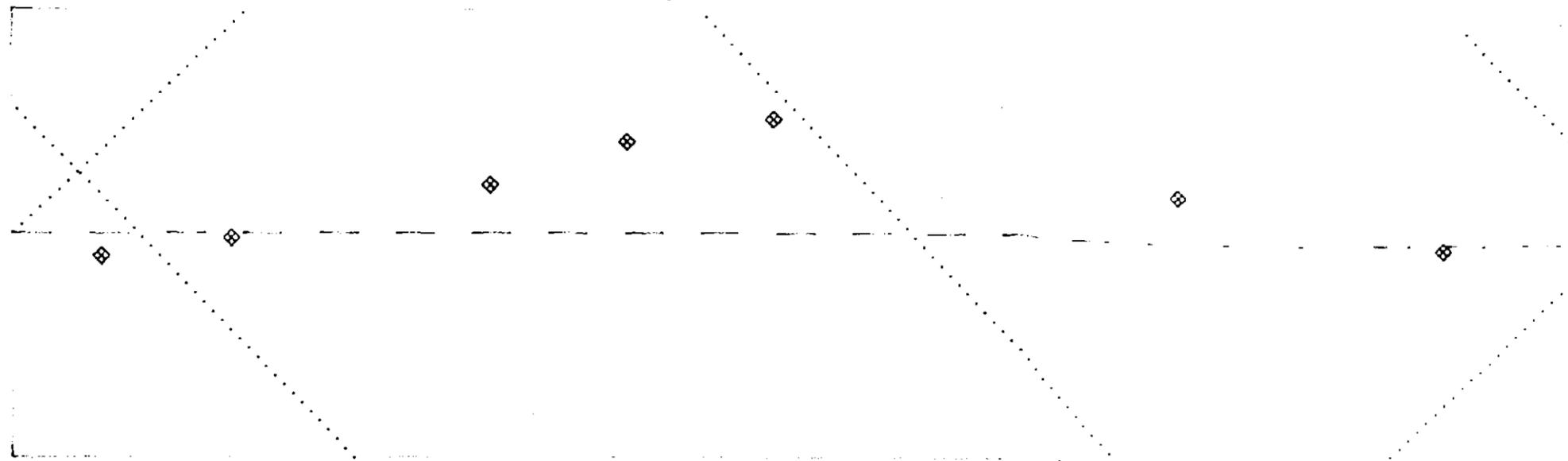
-  GREENSCHIST
- +vc₉ AUGER DRILL HOLE



SAVAGE RESOURCES LIMITED						
SAVAGE RIVER - R.L. 8802						
MAIN CREEK OCHRE RESOURCE LOCATION PLAN						
SCALE 1:2,000	<table border="1"> <tr> <td>DRAWN BY: R.A.</td> </tr> <tr> <td>DRAFTSMAN: T.G.D.S.</td> </tr> <tr> <td>DATE: 1 MAY '90</td> </tr> <tr> <td>REVISIONS:</td> </tr> <tr> <td>FILE No. SRMC20L</td> </tr> </table>	DRAWN BY: R.A.	DRAFTSMAN: T.G.D.S.	DATE: 1 MAY '90	REVISIONS:	FILE No. SRMC20L
DRAWN BY: R.A.						
DRAFTSMAN: T.G.D.S.						
DATE: 1 MAY '90						
REVISIONS:						
FILE No. SRMC20L						
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PLAN



Symbols

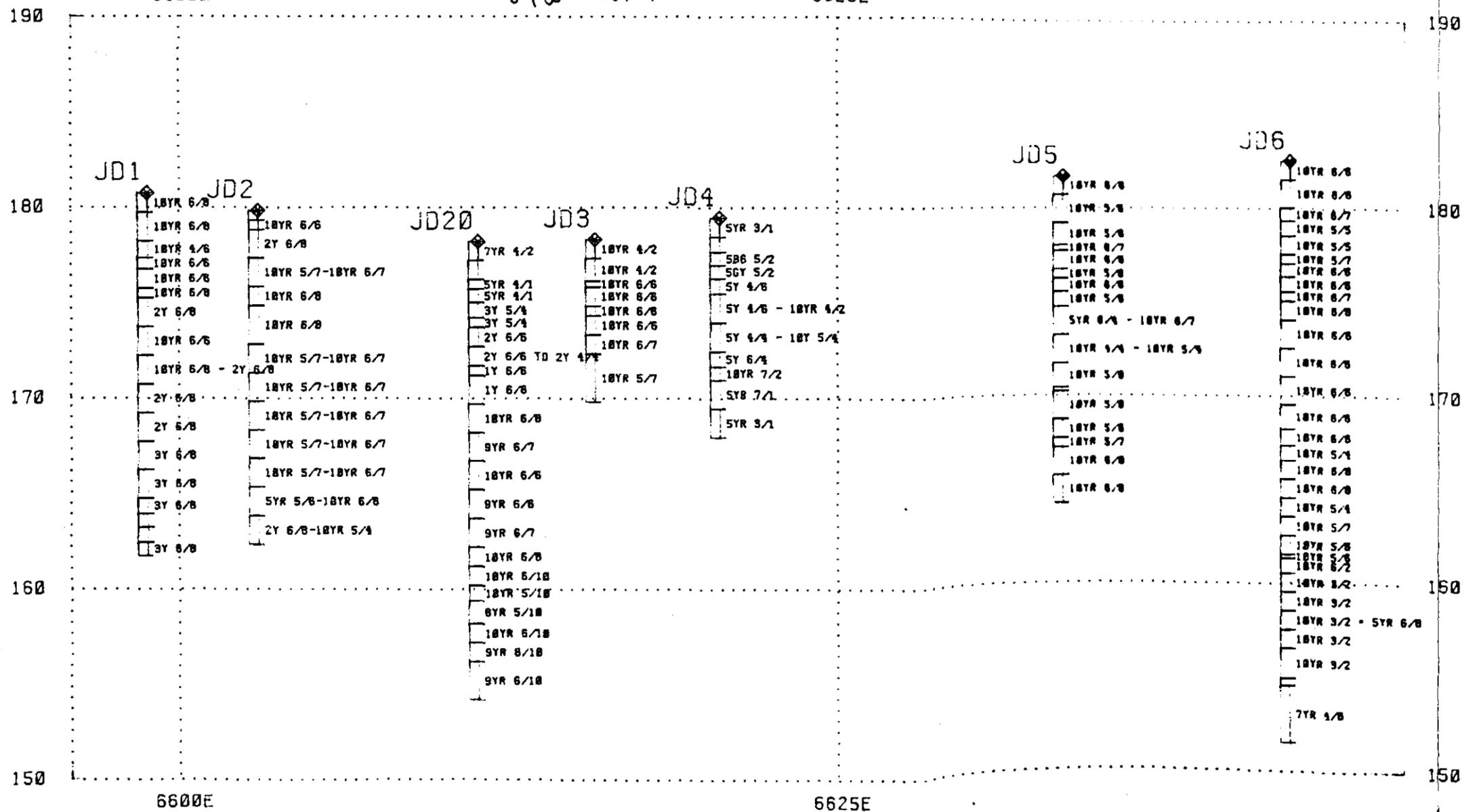
⊠ Drill Hole Collar

Scale As Indicated by Grid

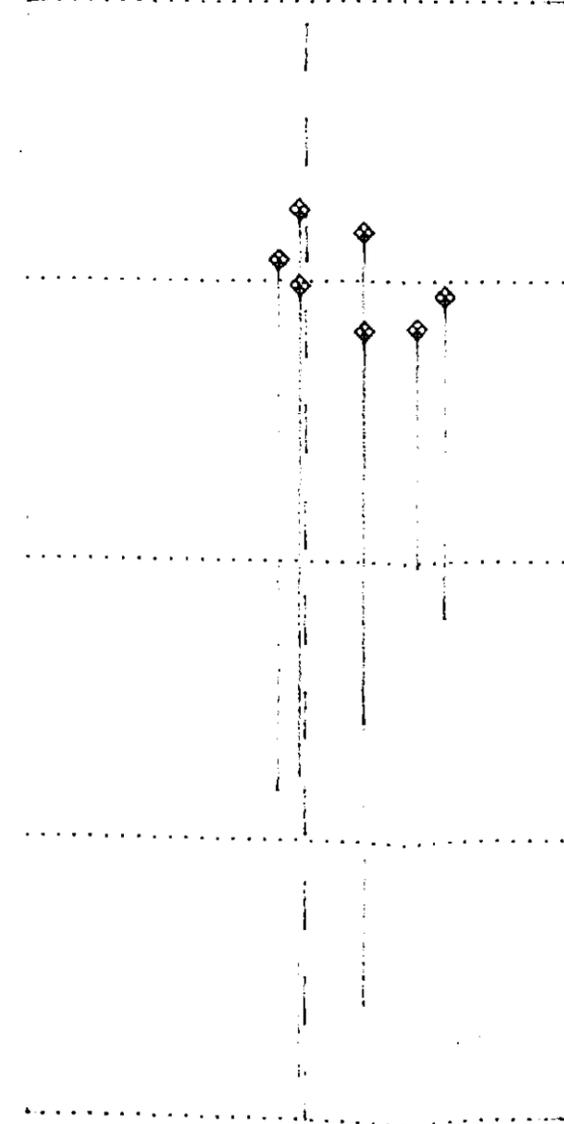
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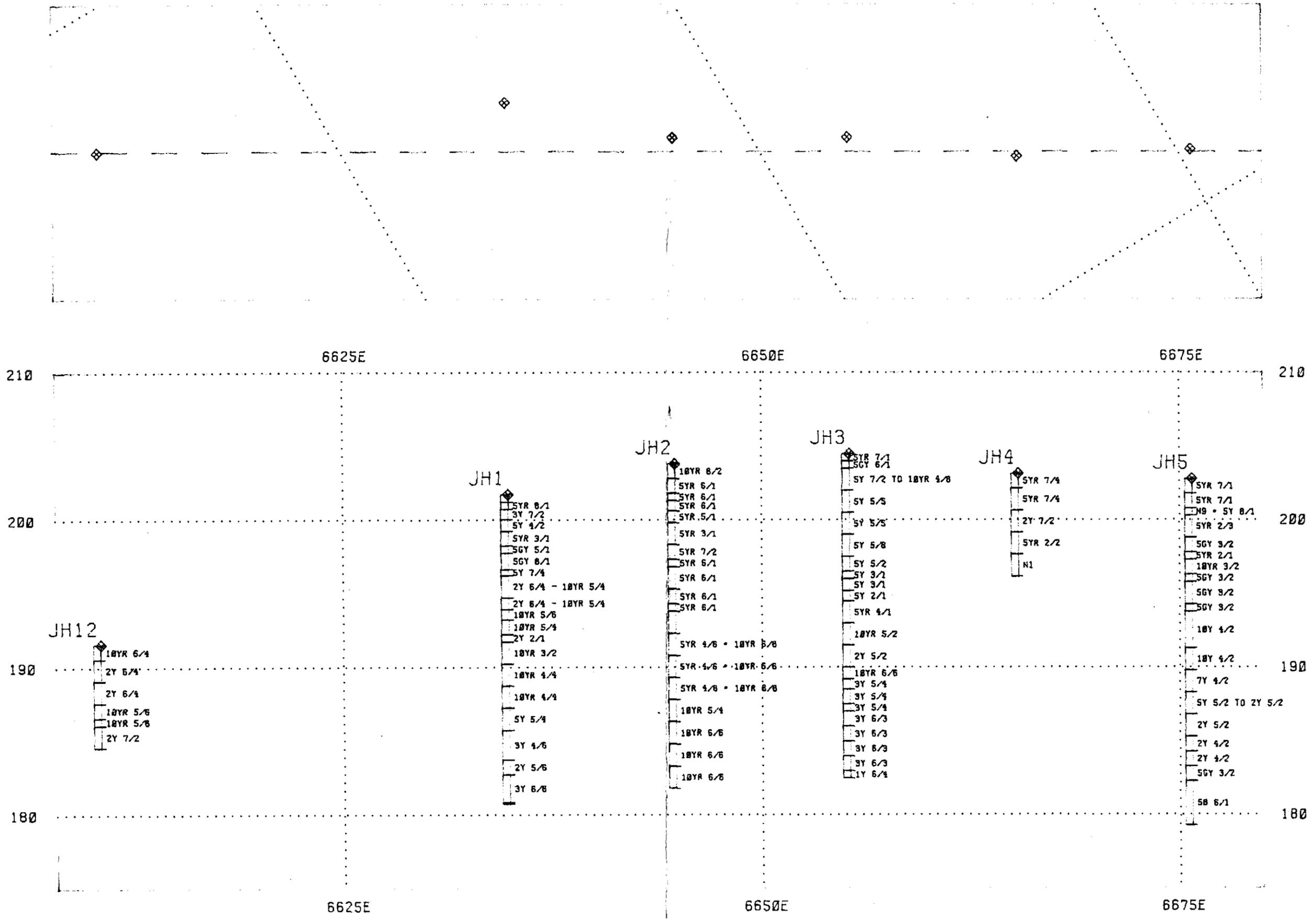
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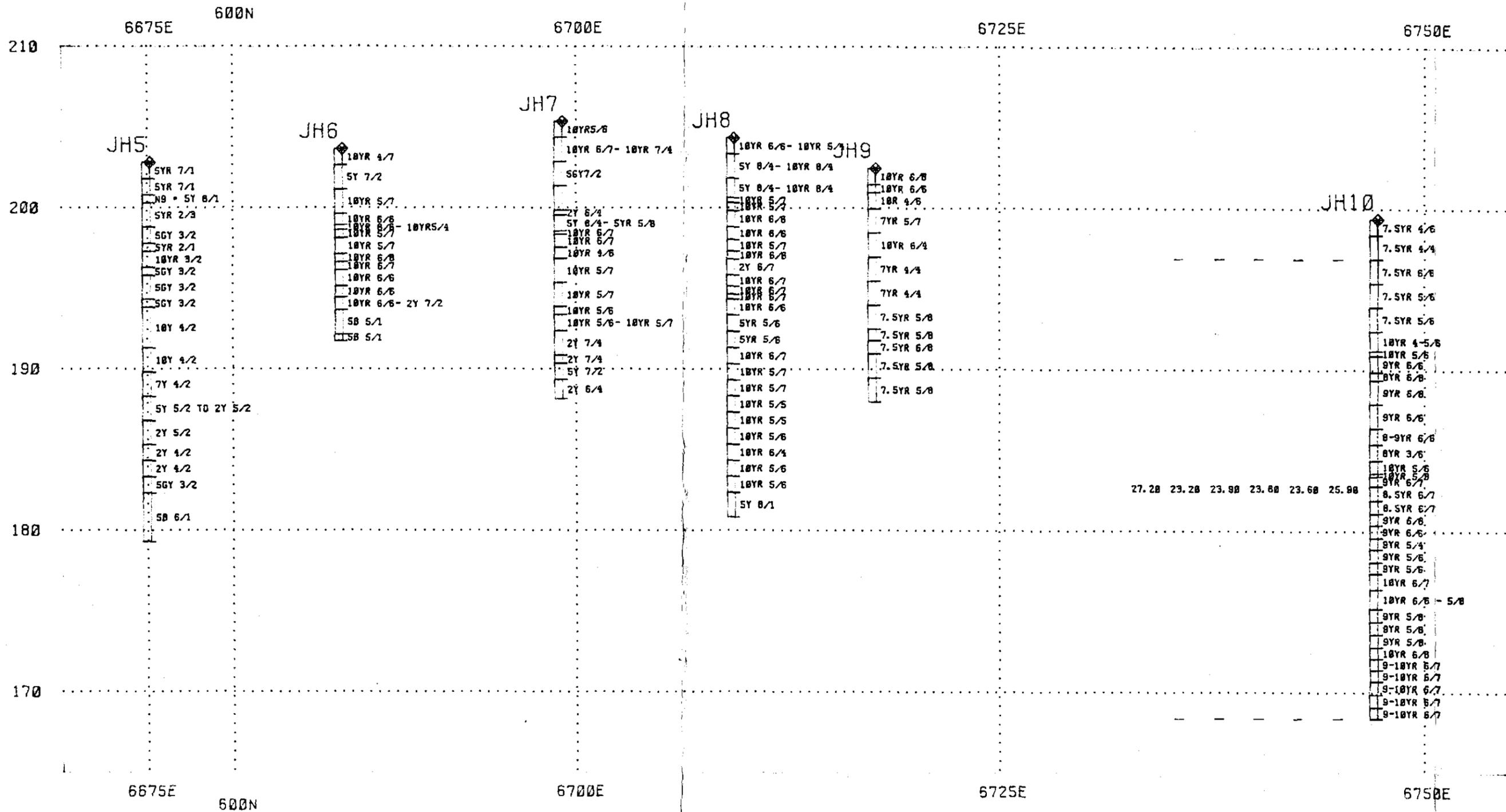
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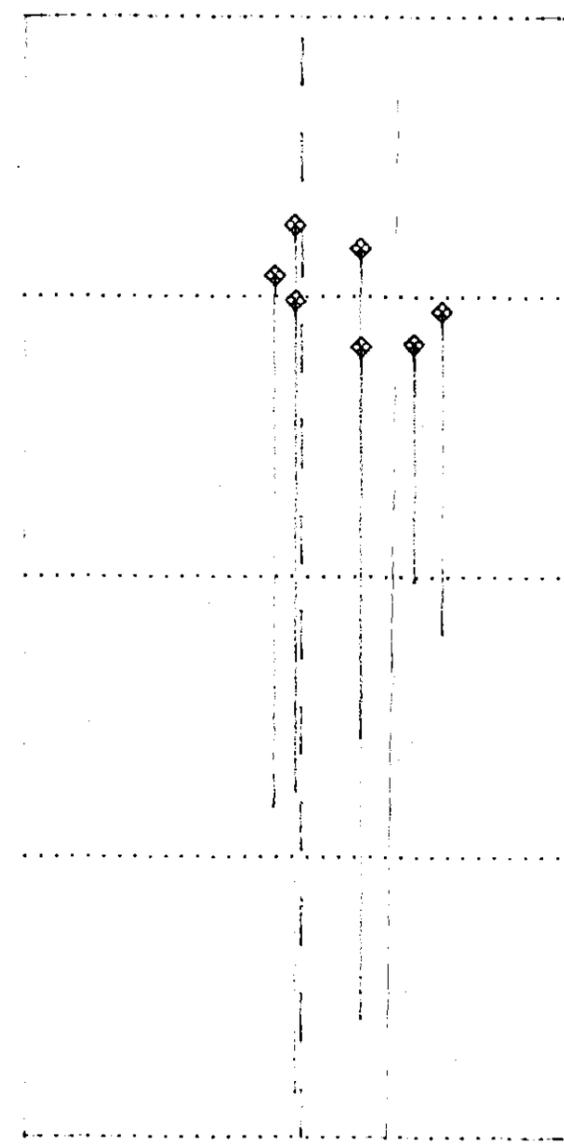
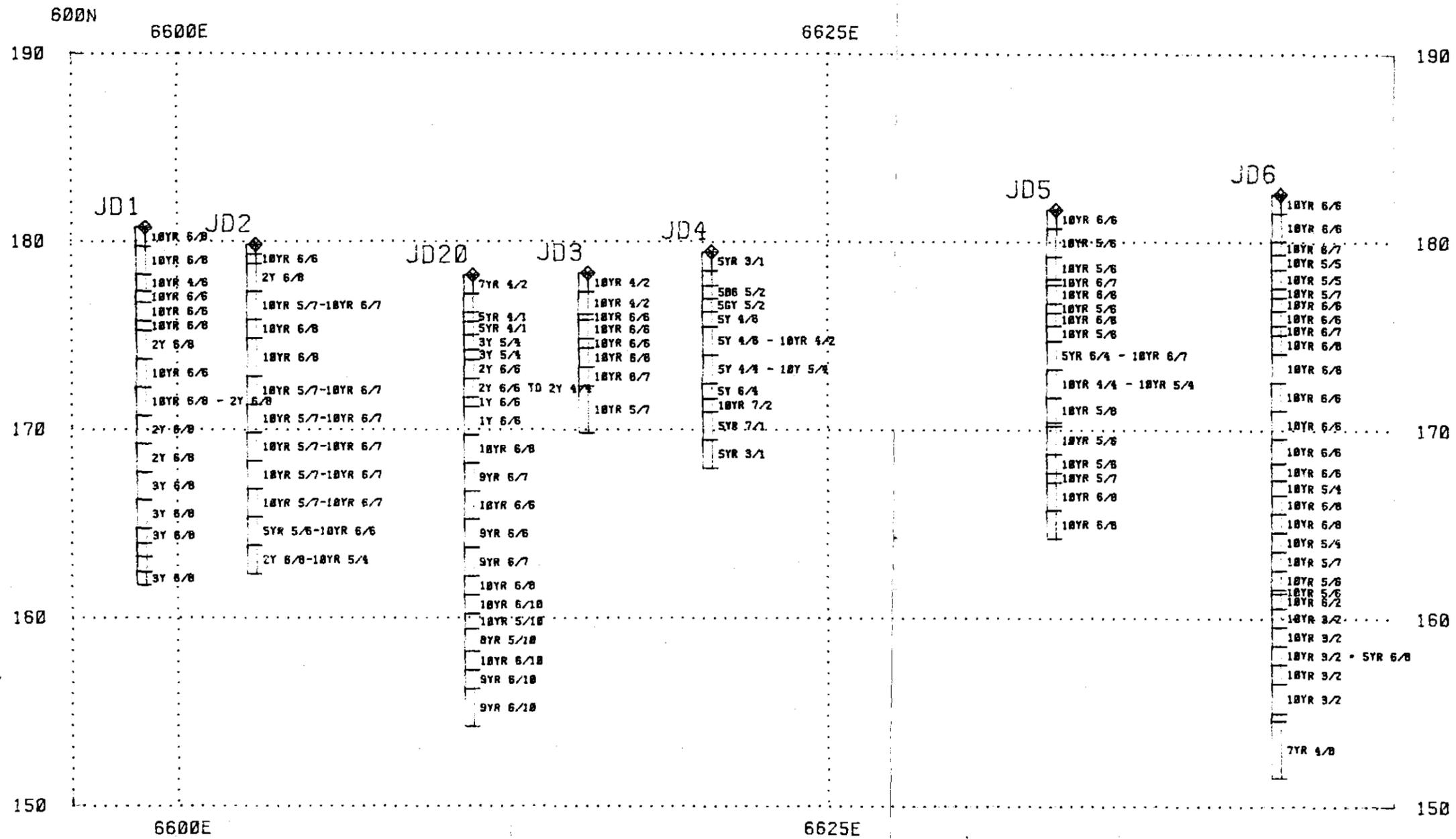
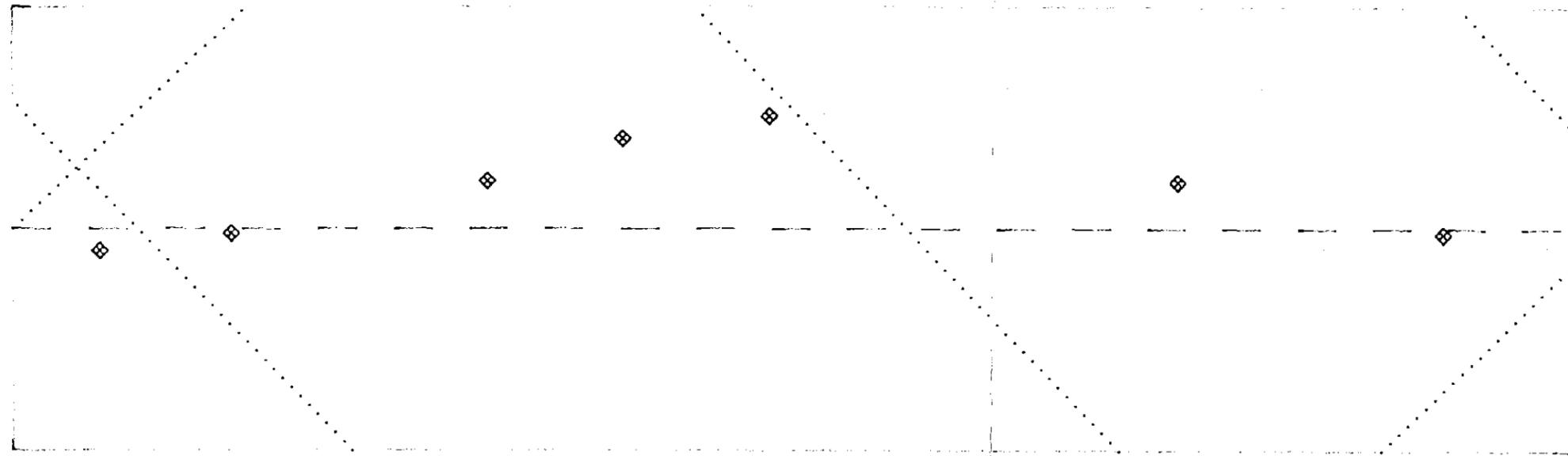


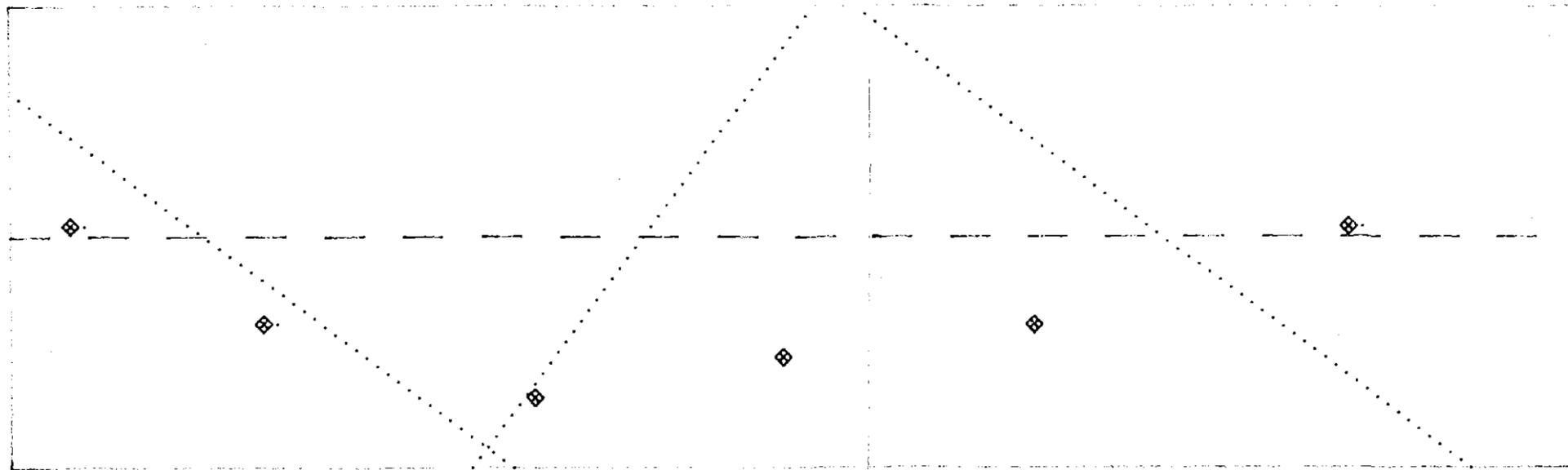
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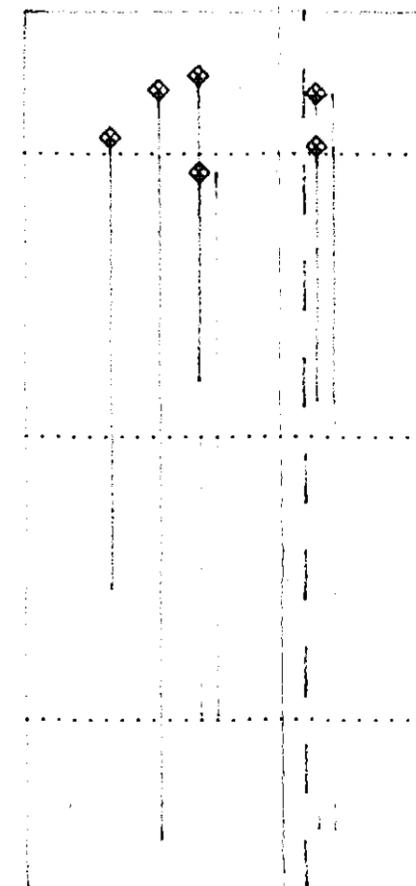
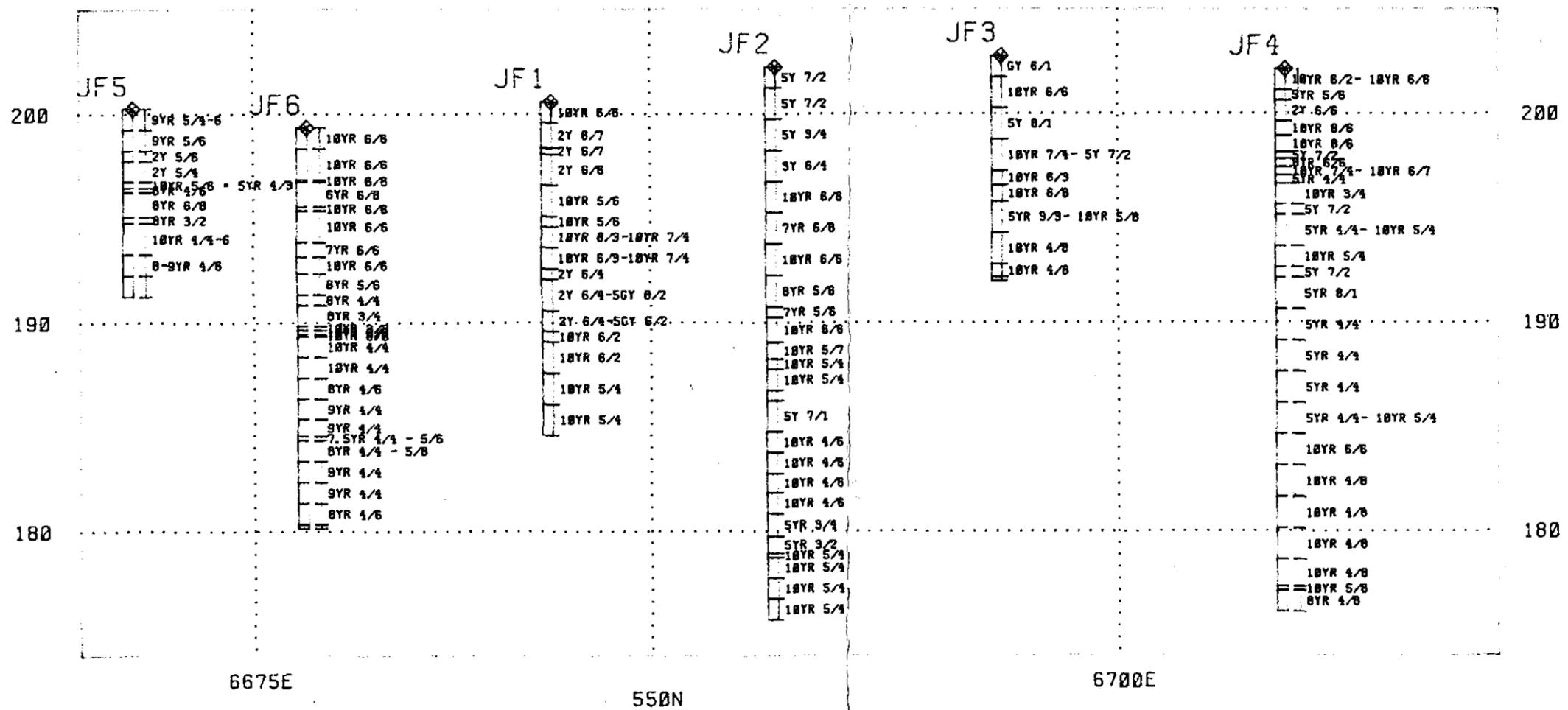


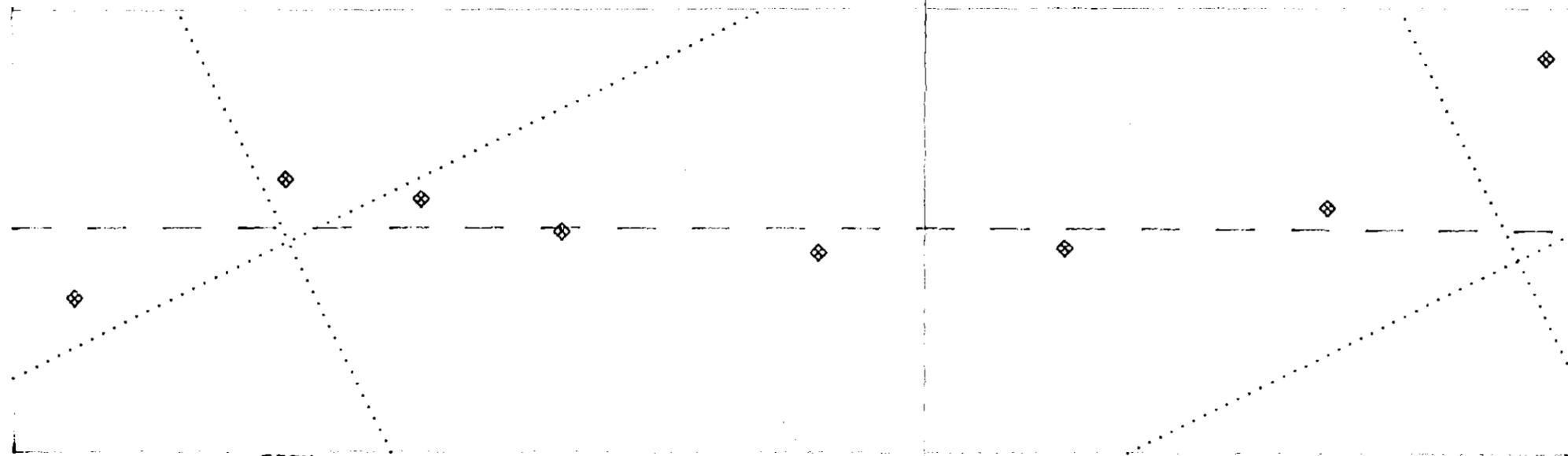


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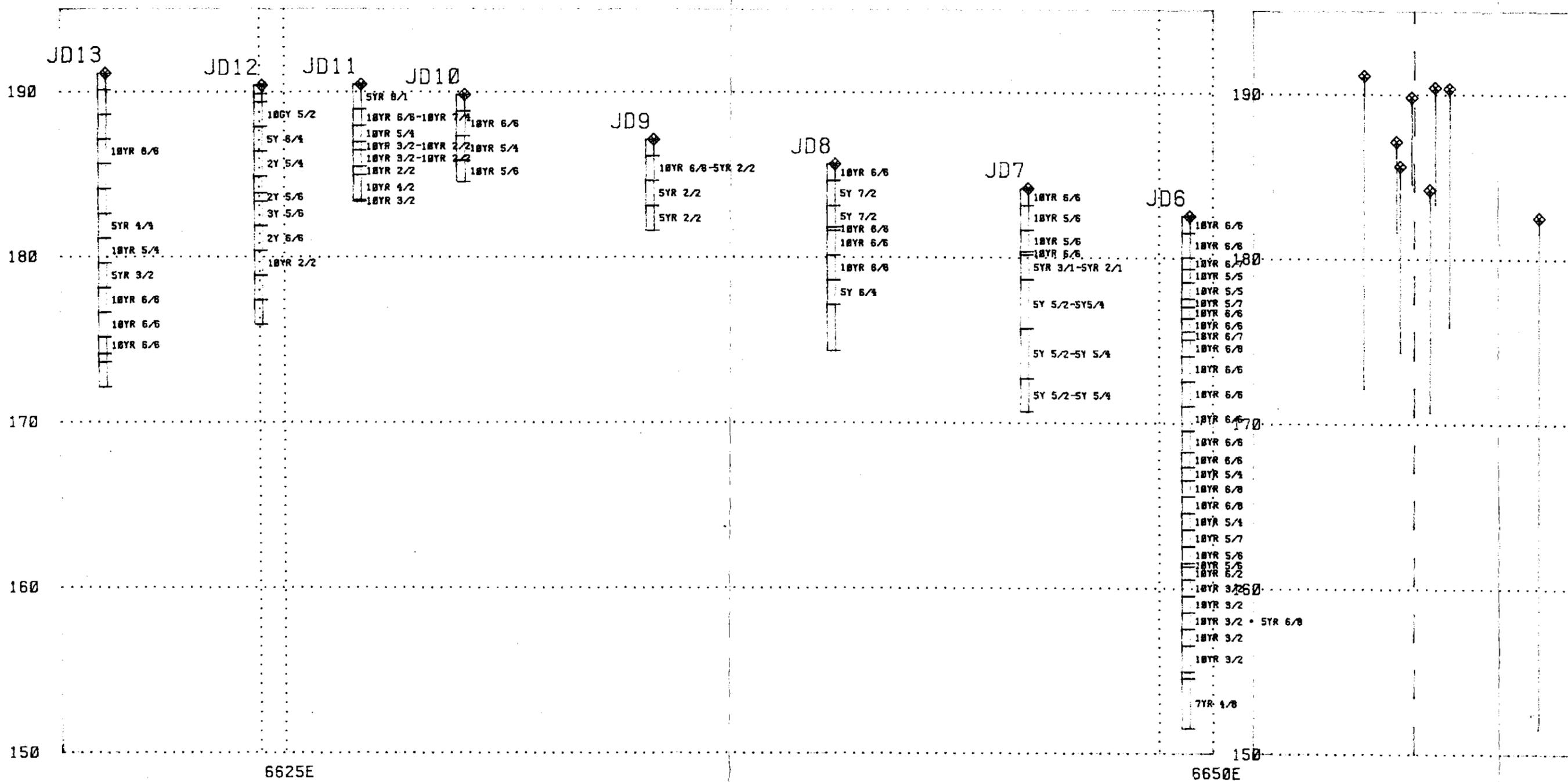
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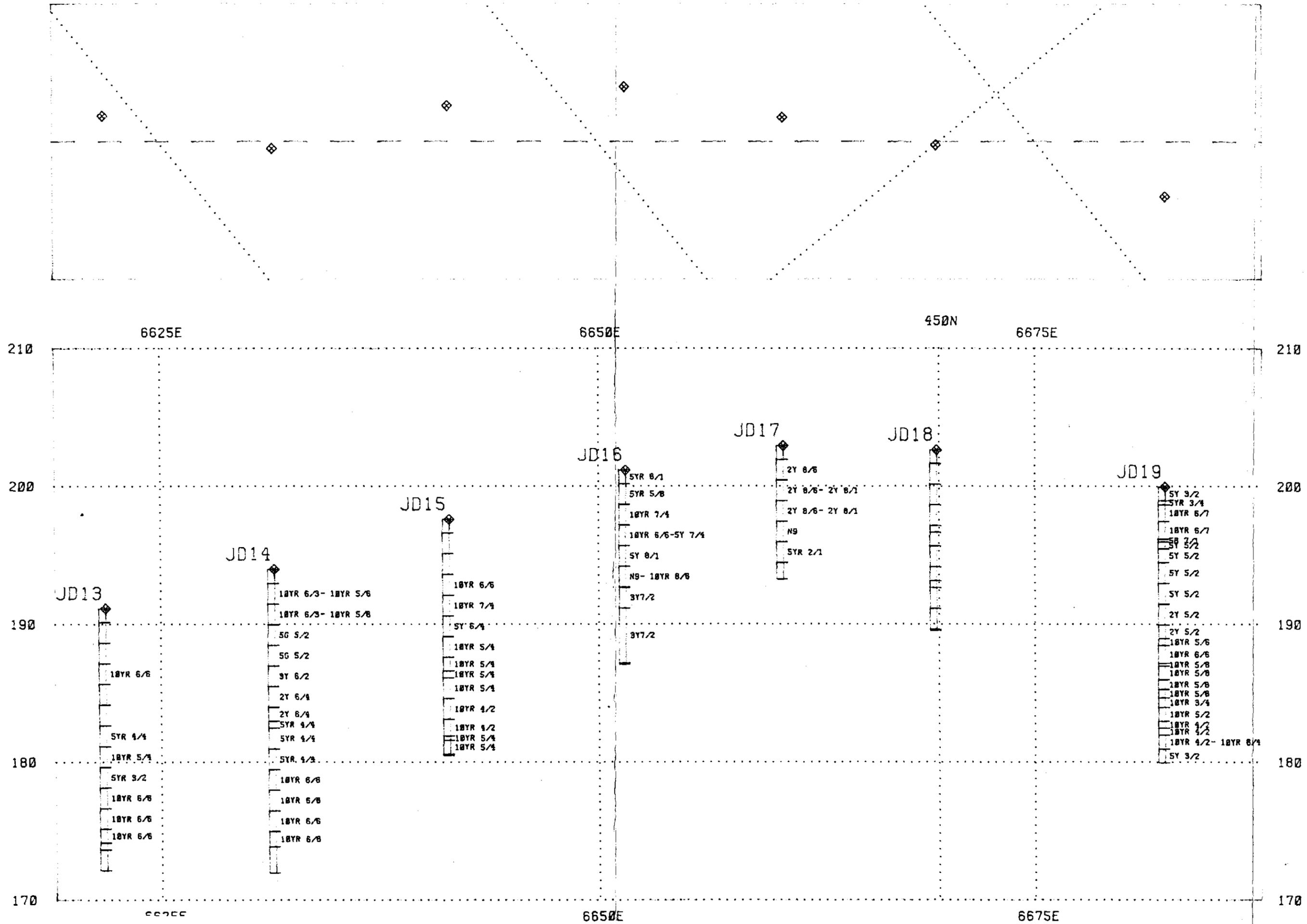


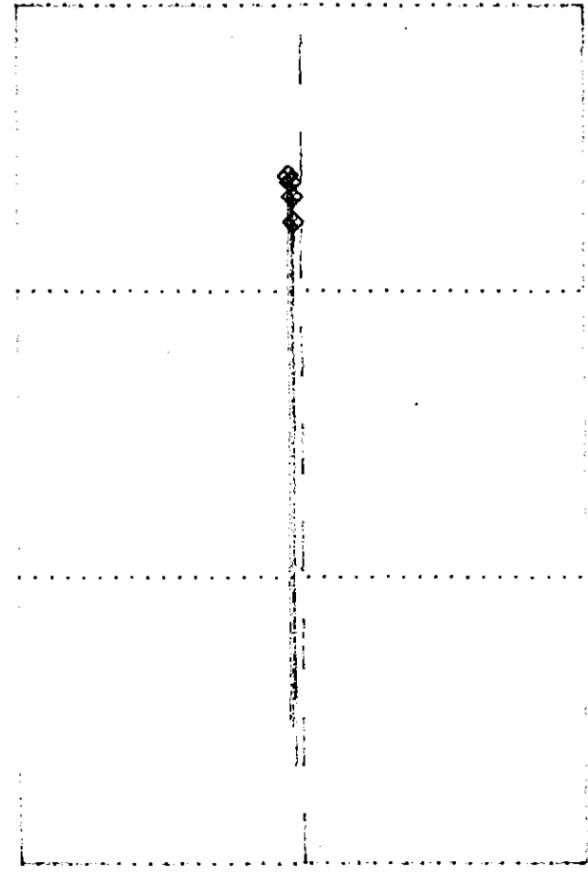
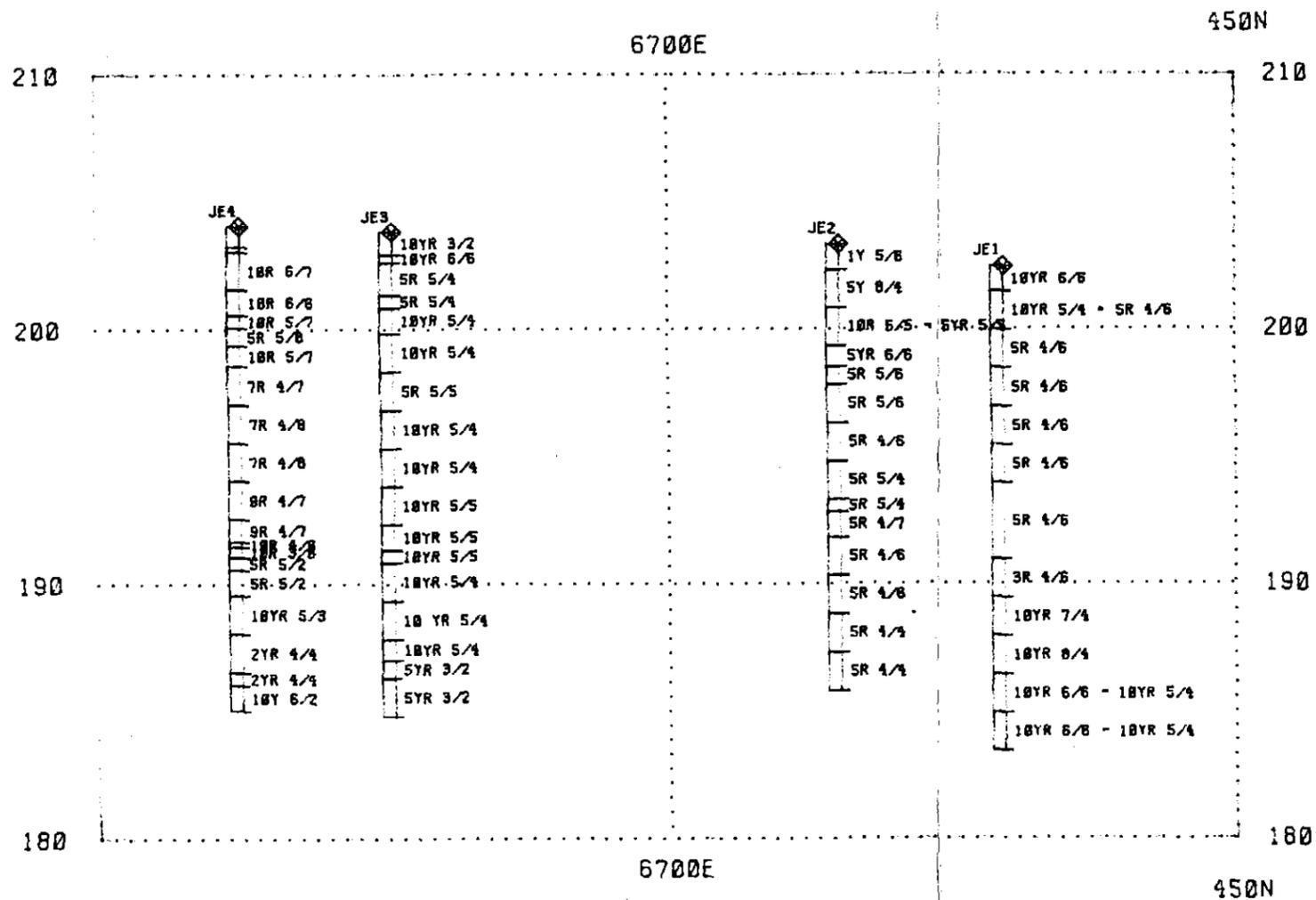
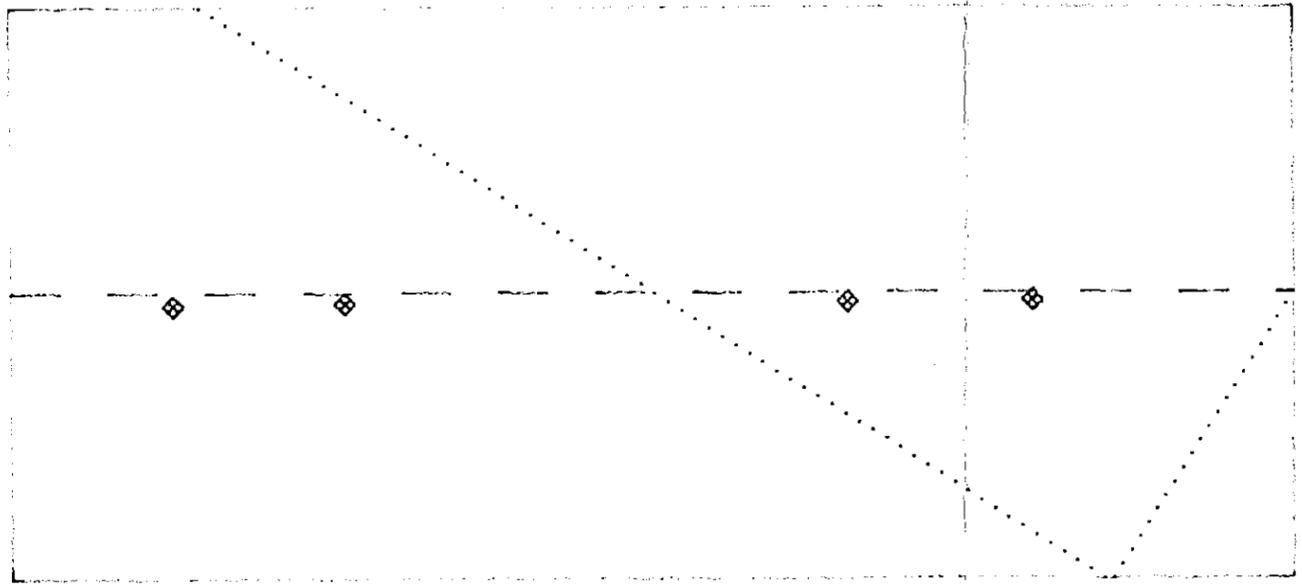


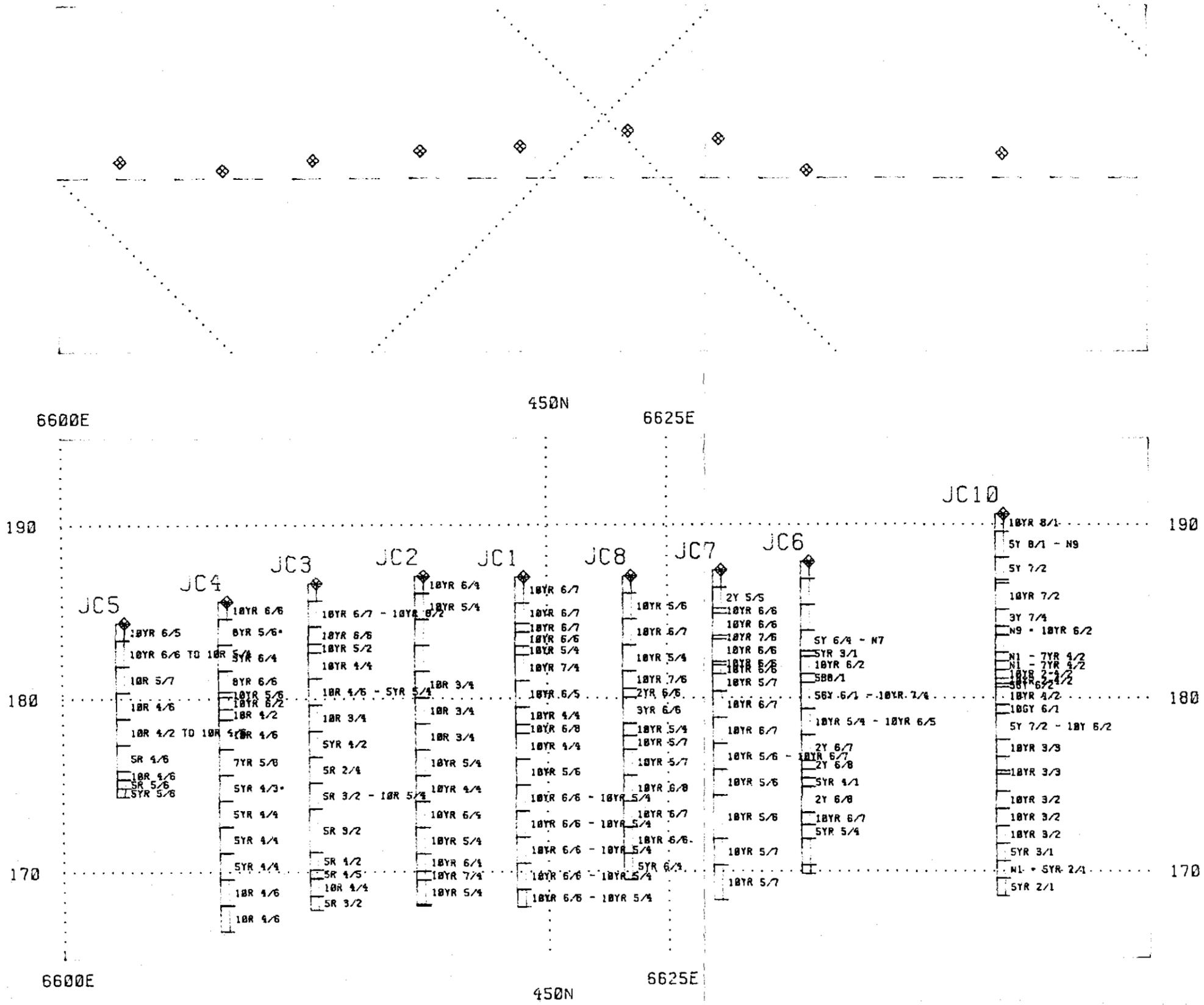
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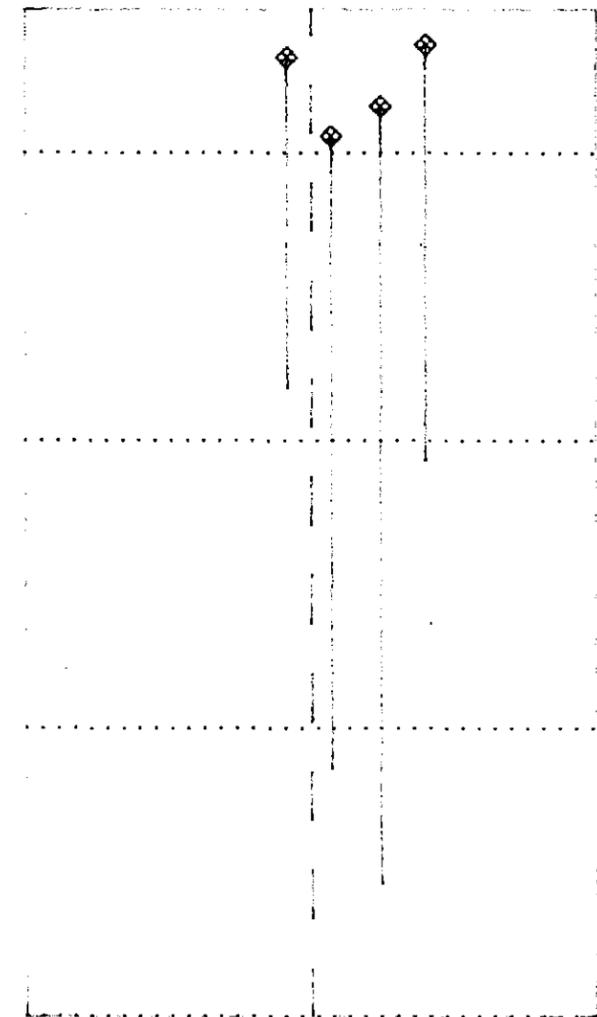
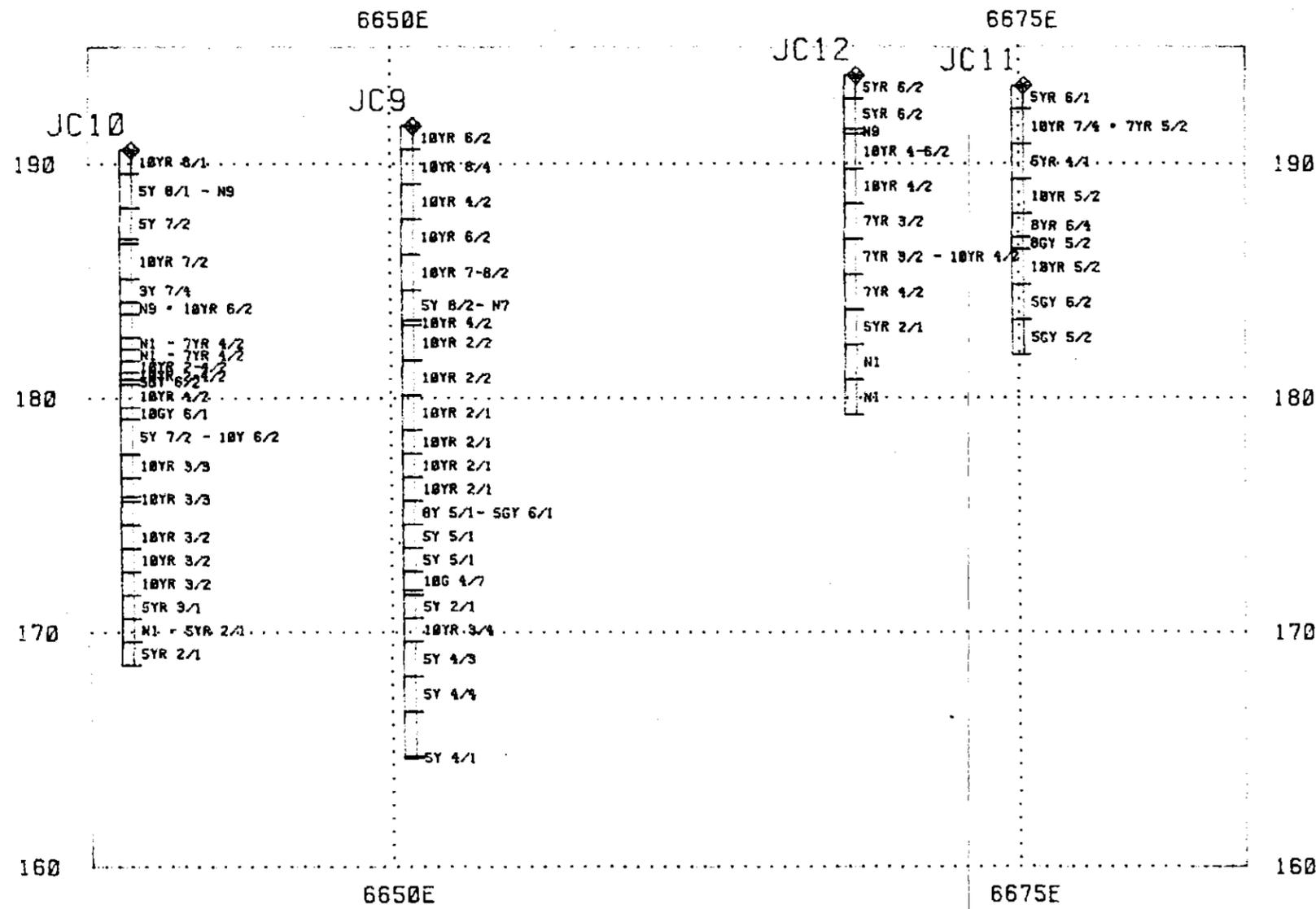
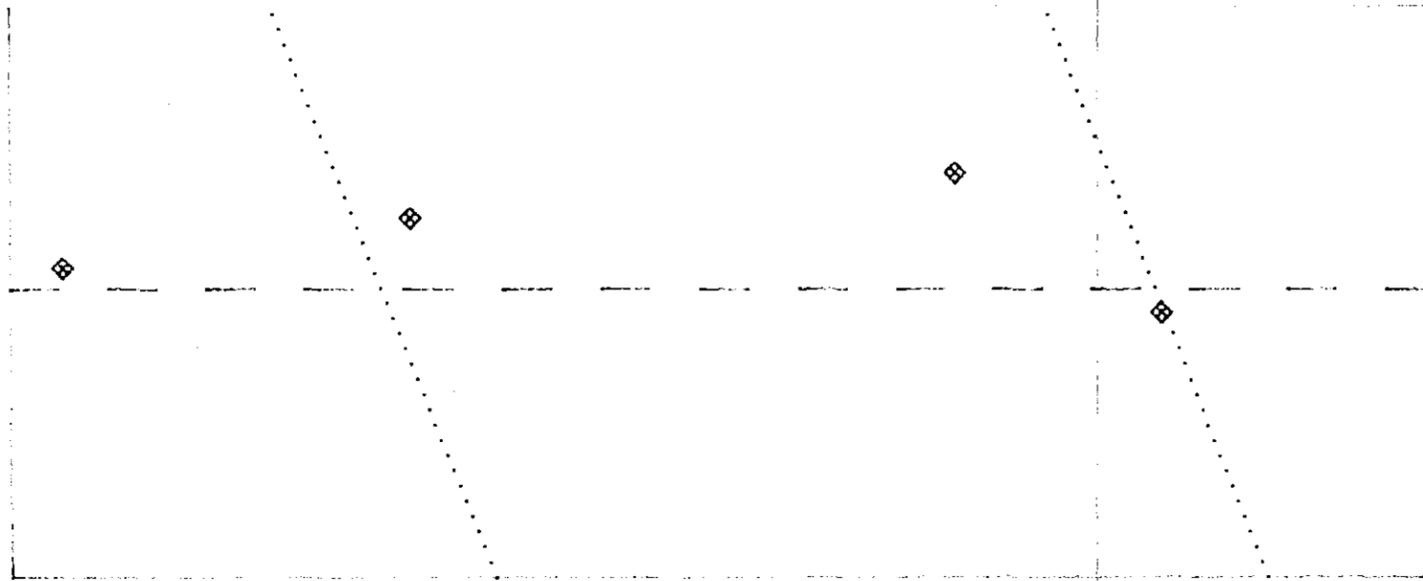
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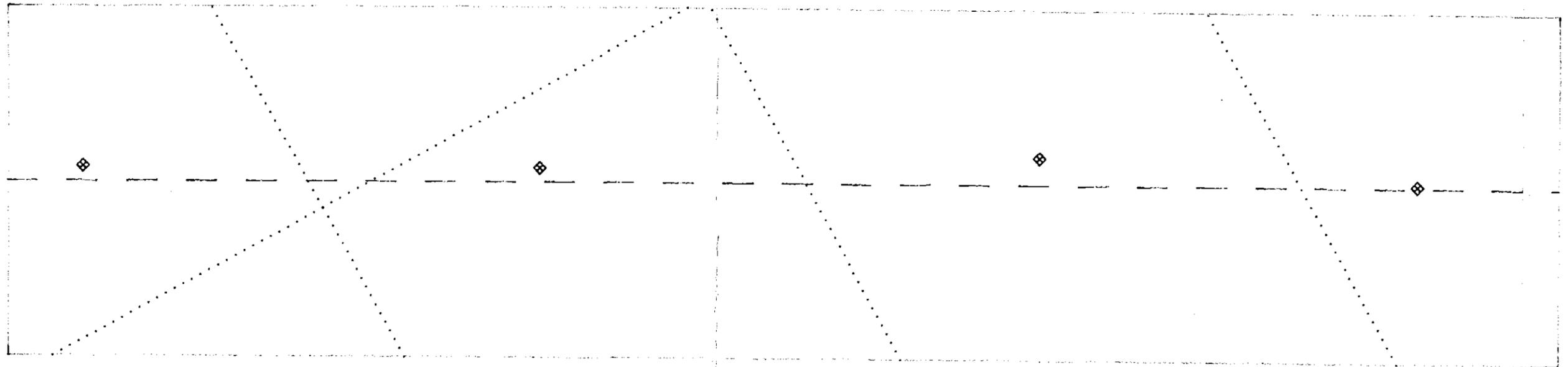








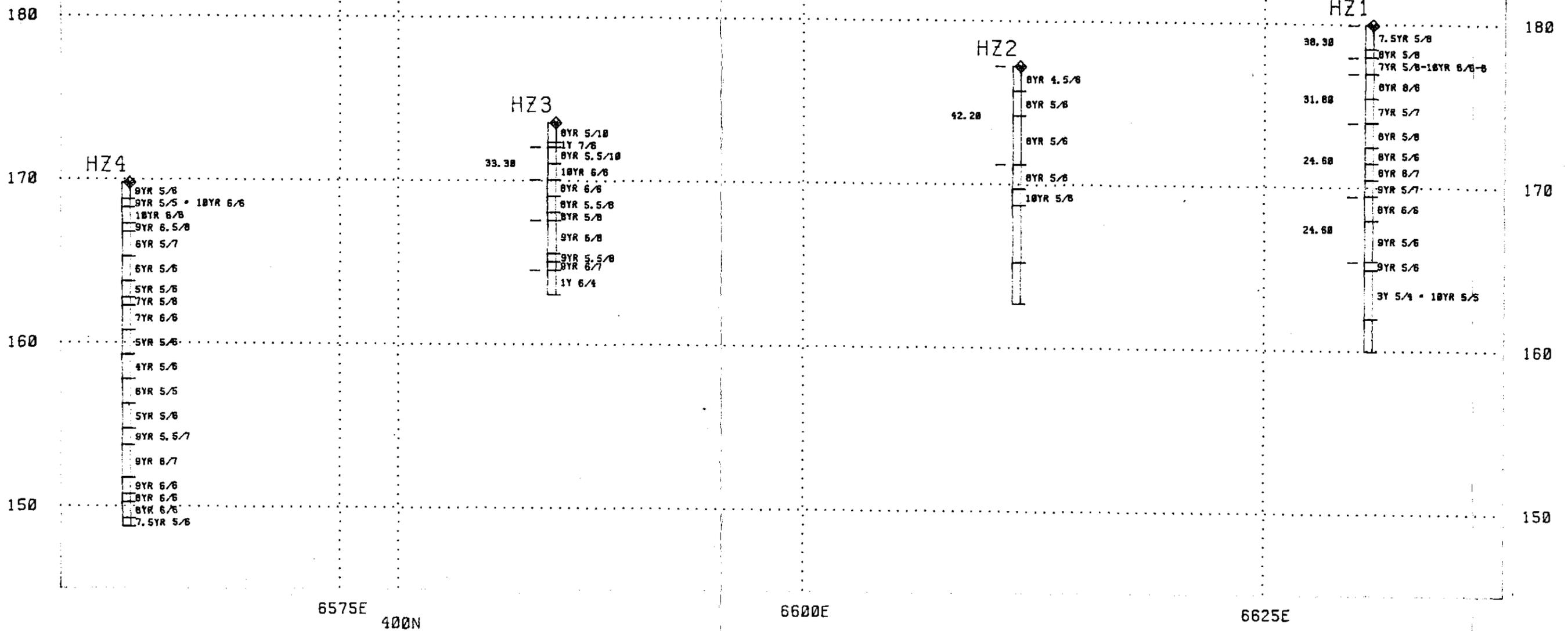


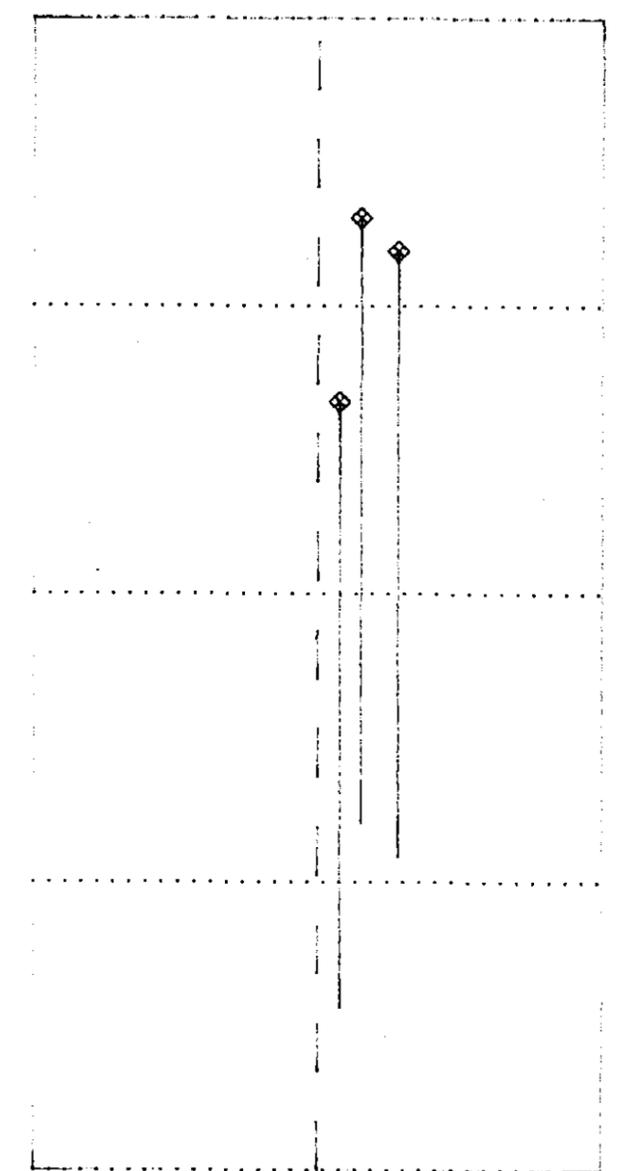
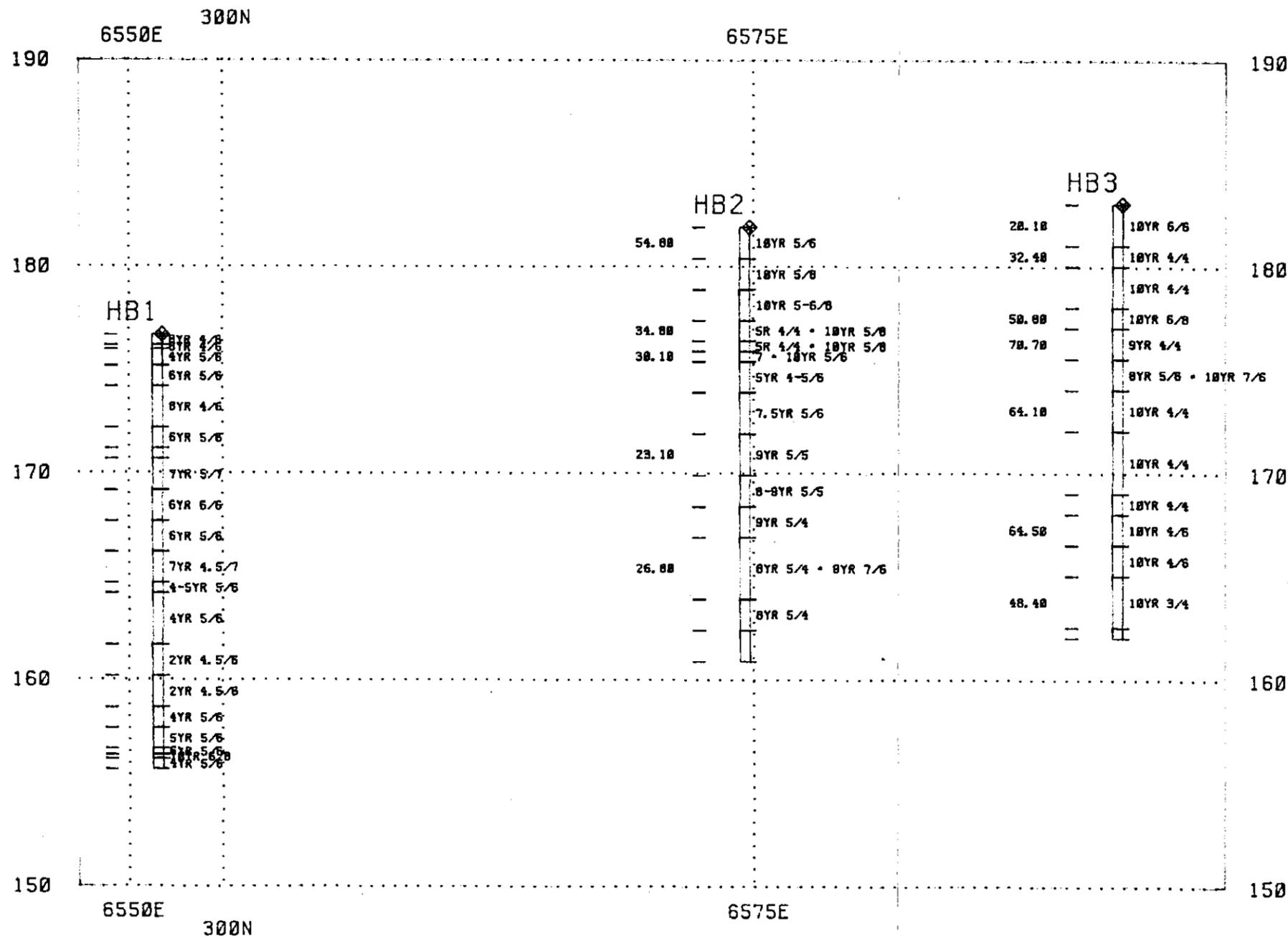
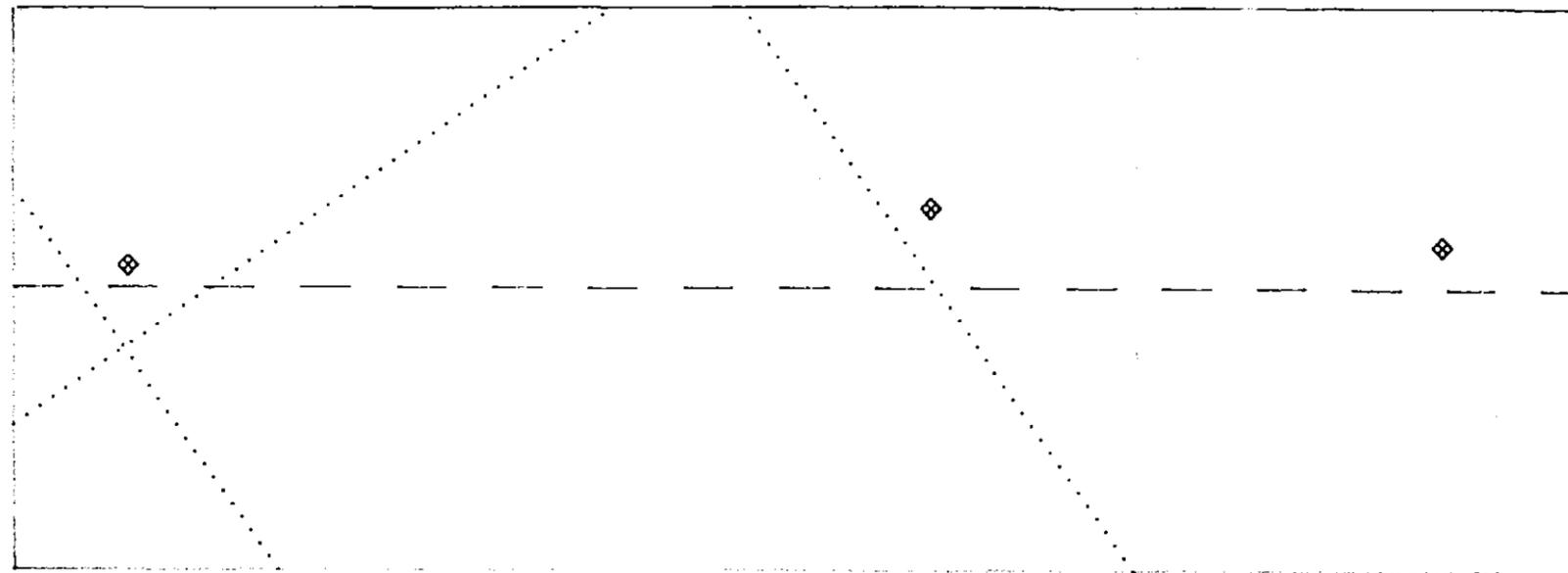


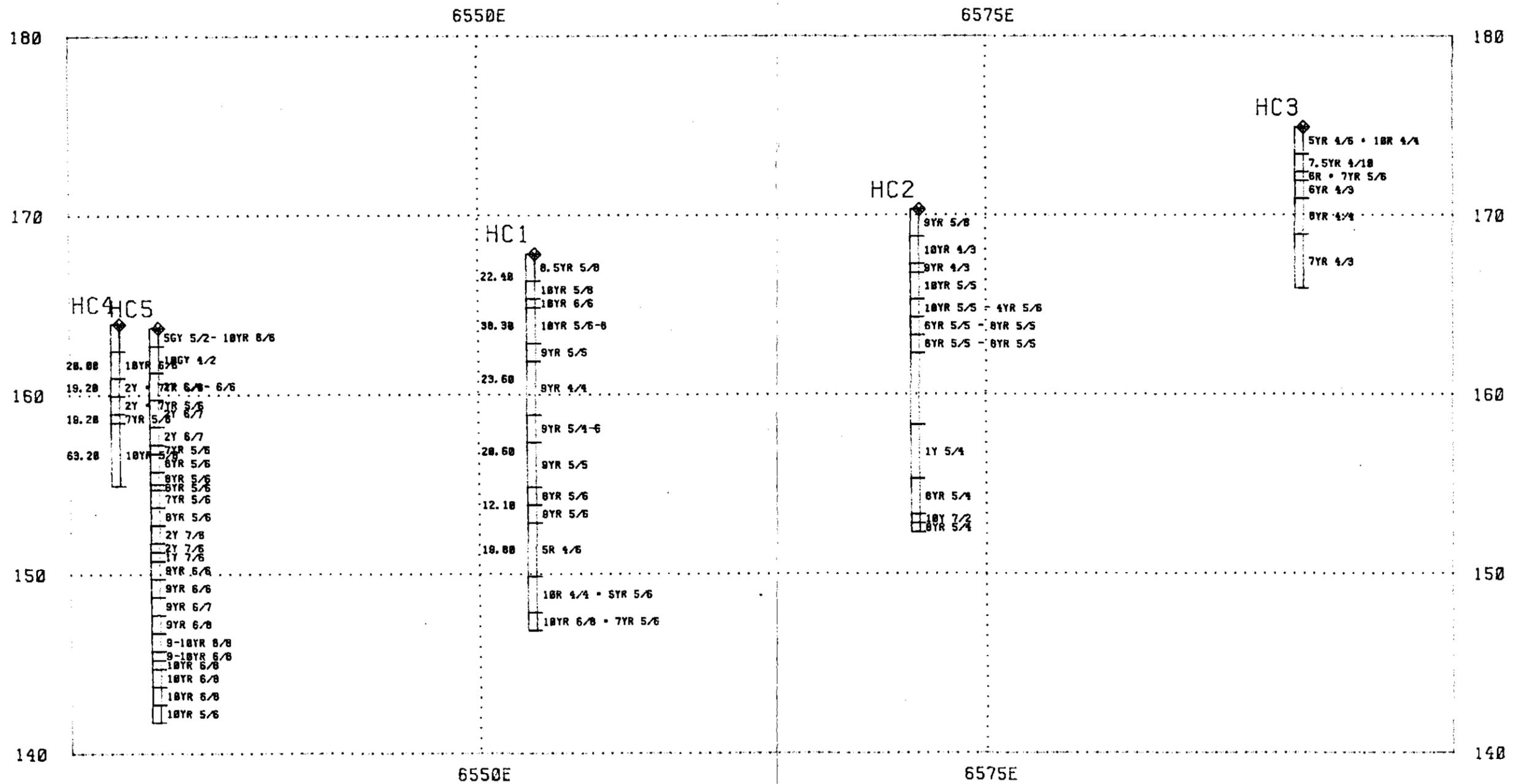
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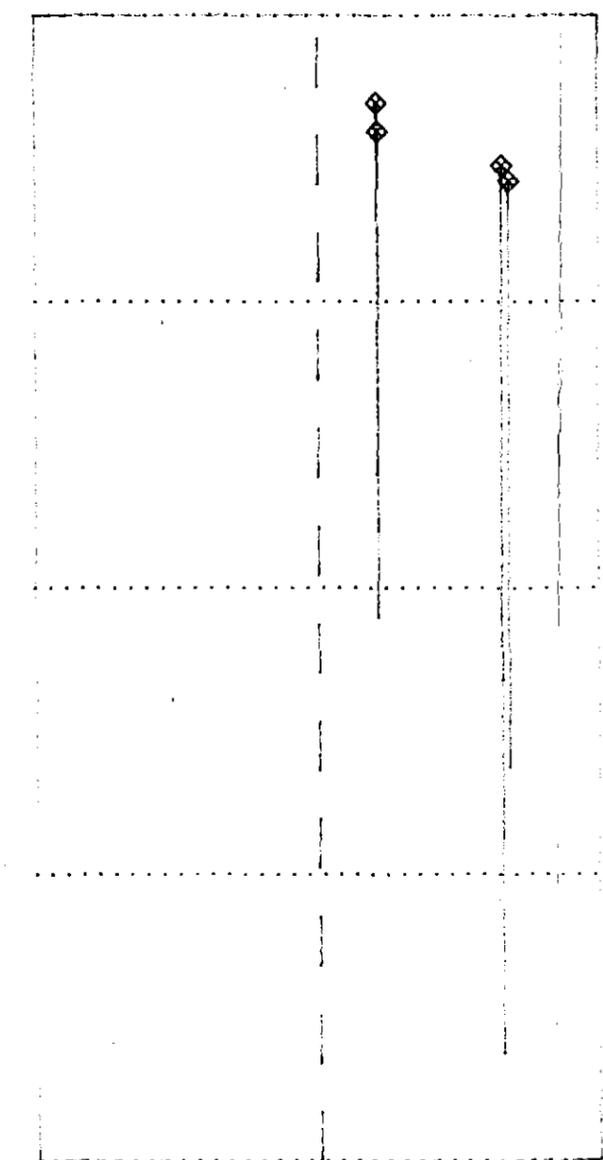
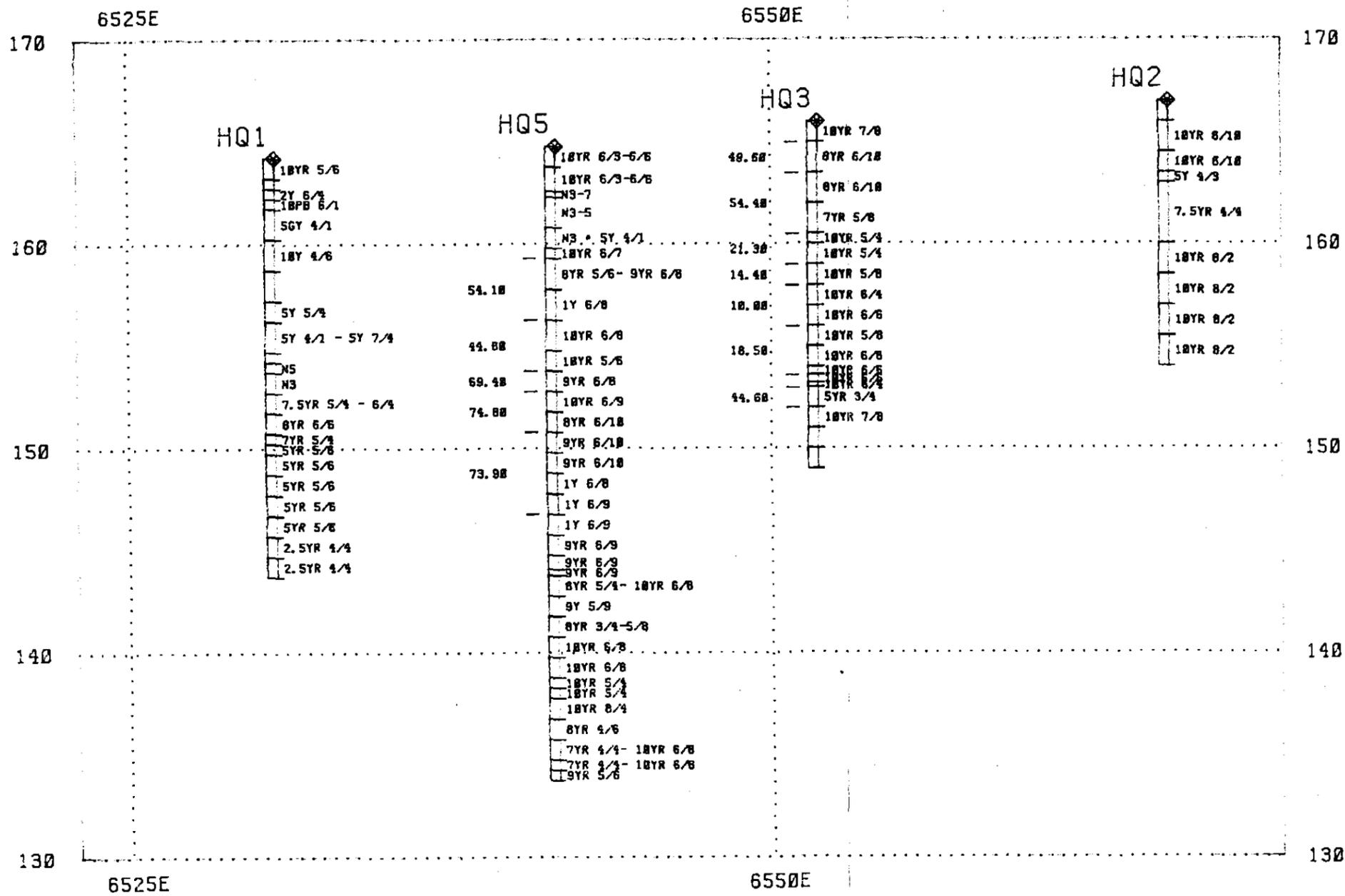
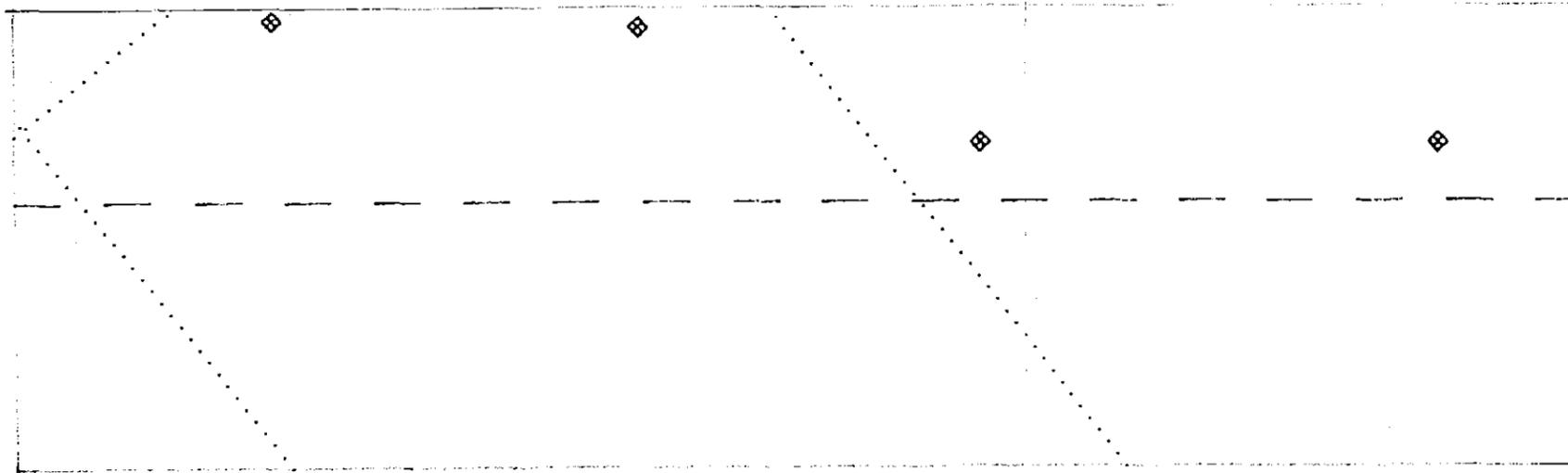
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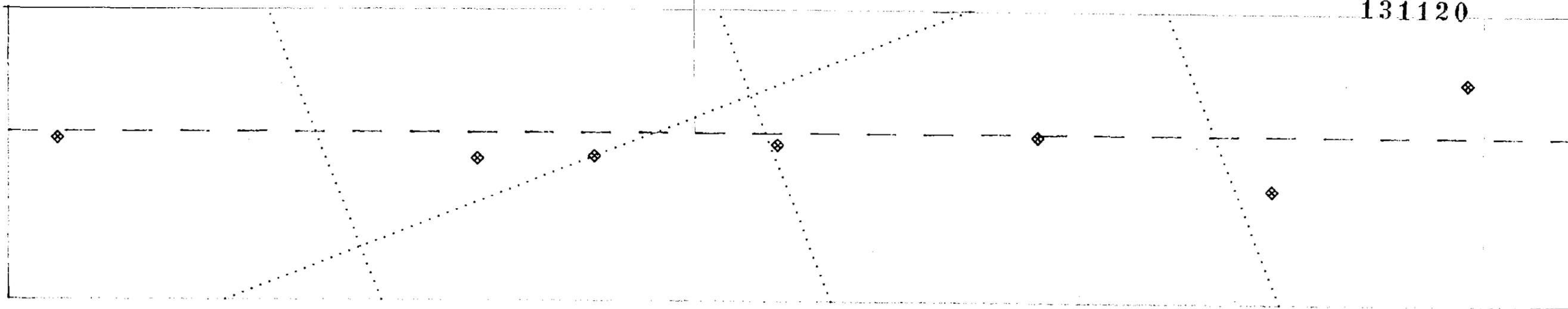






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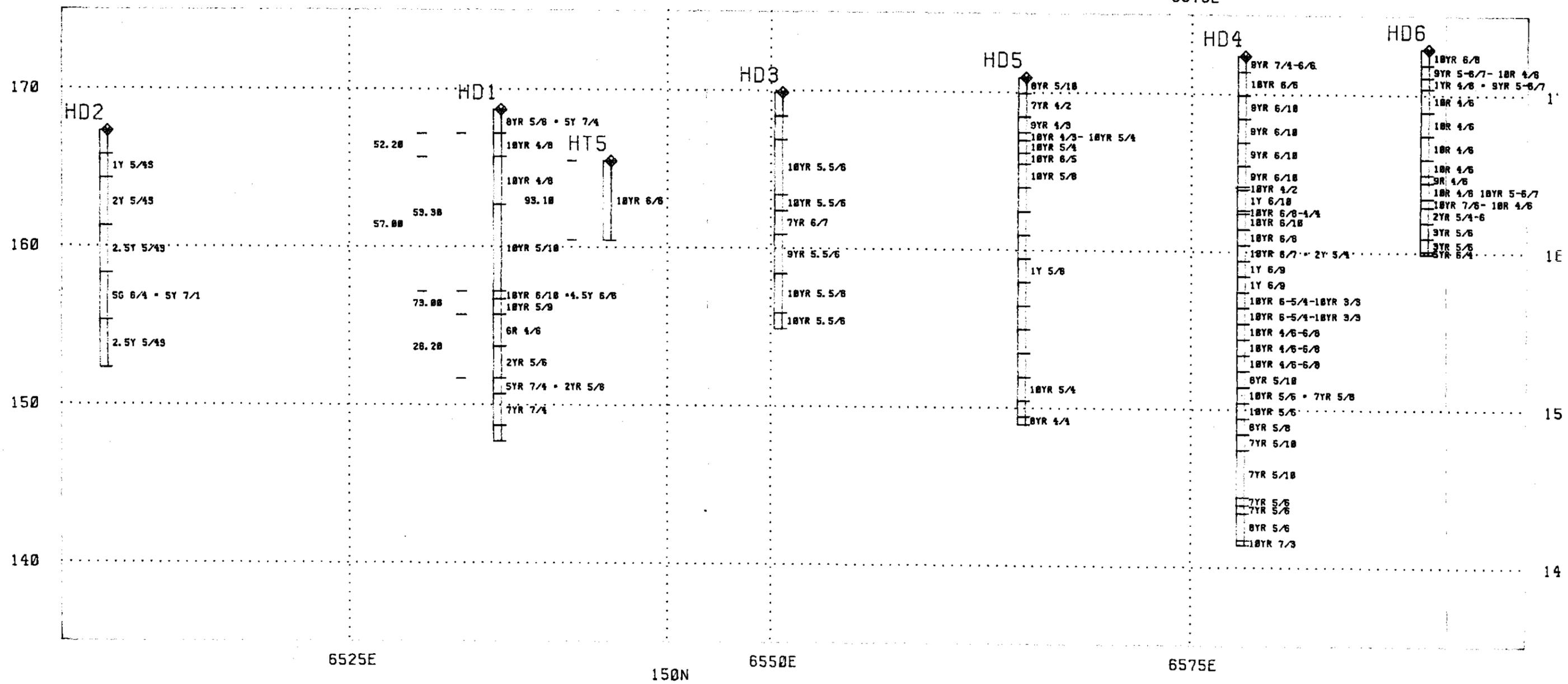


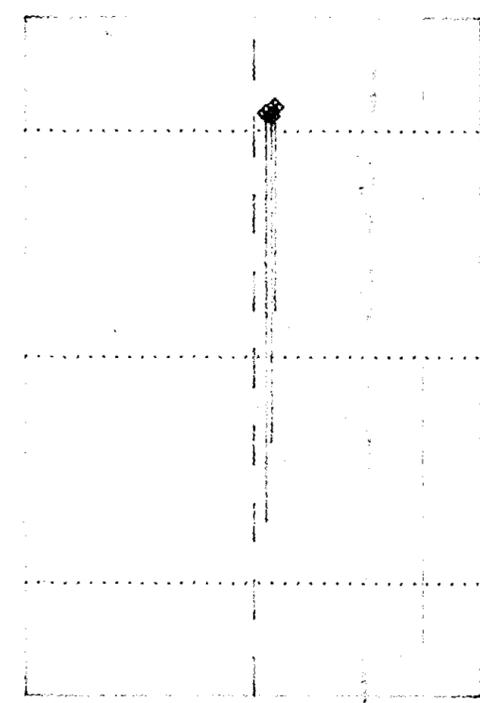
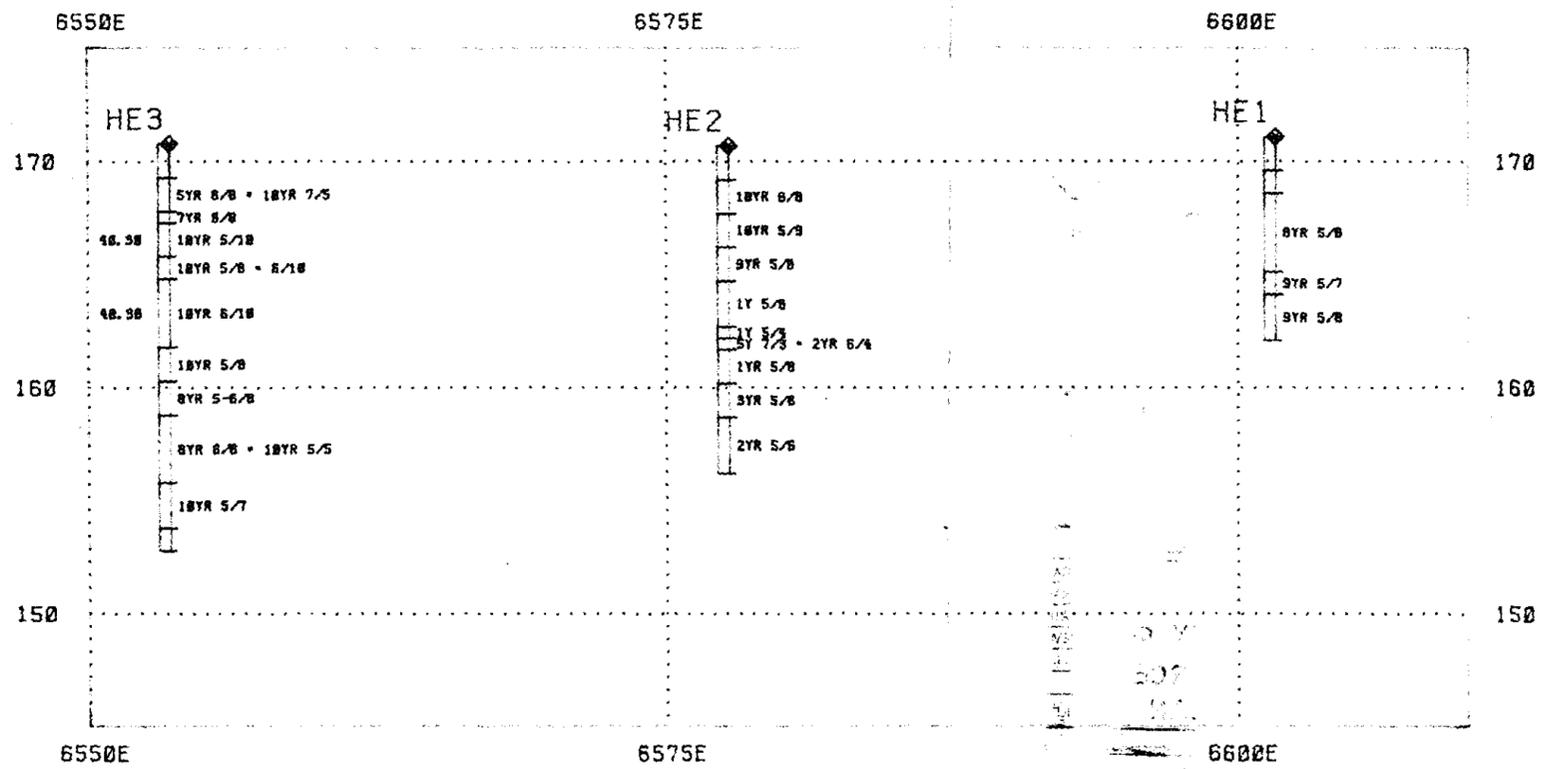
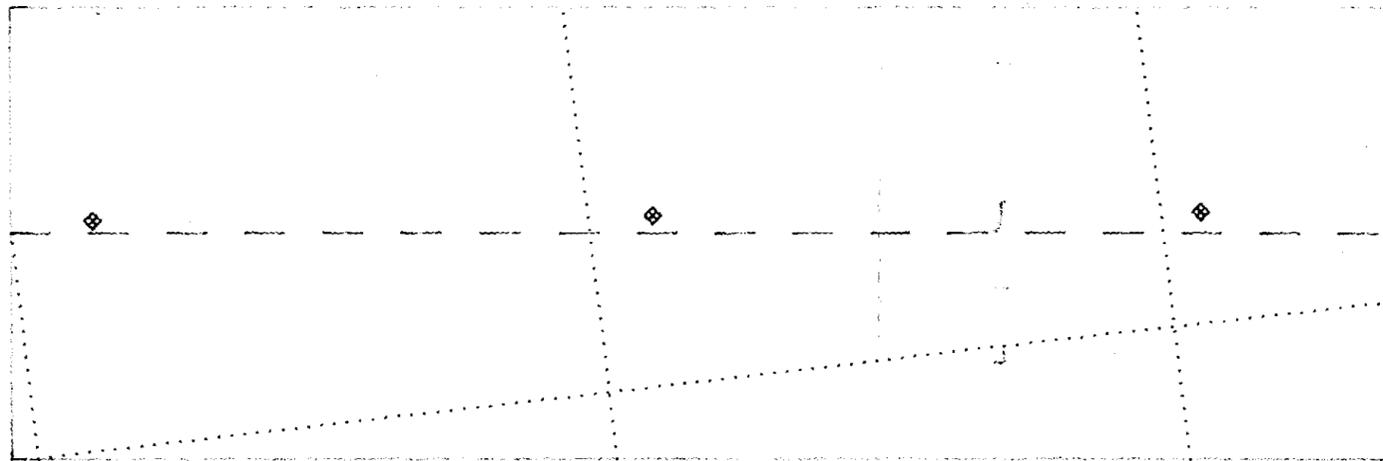
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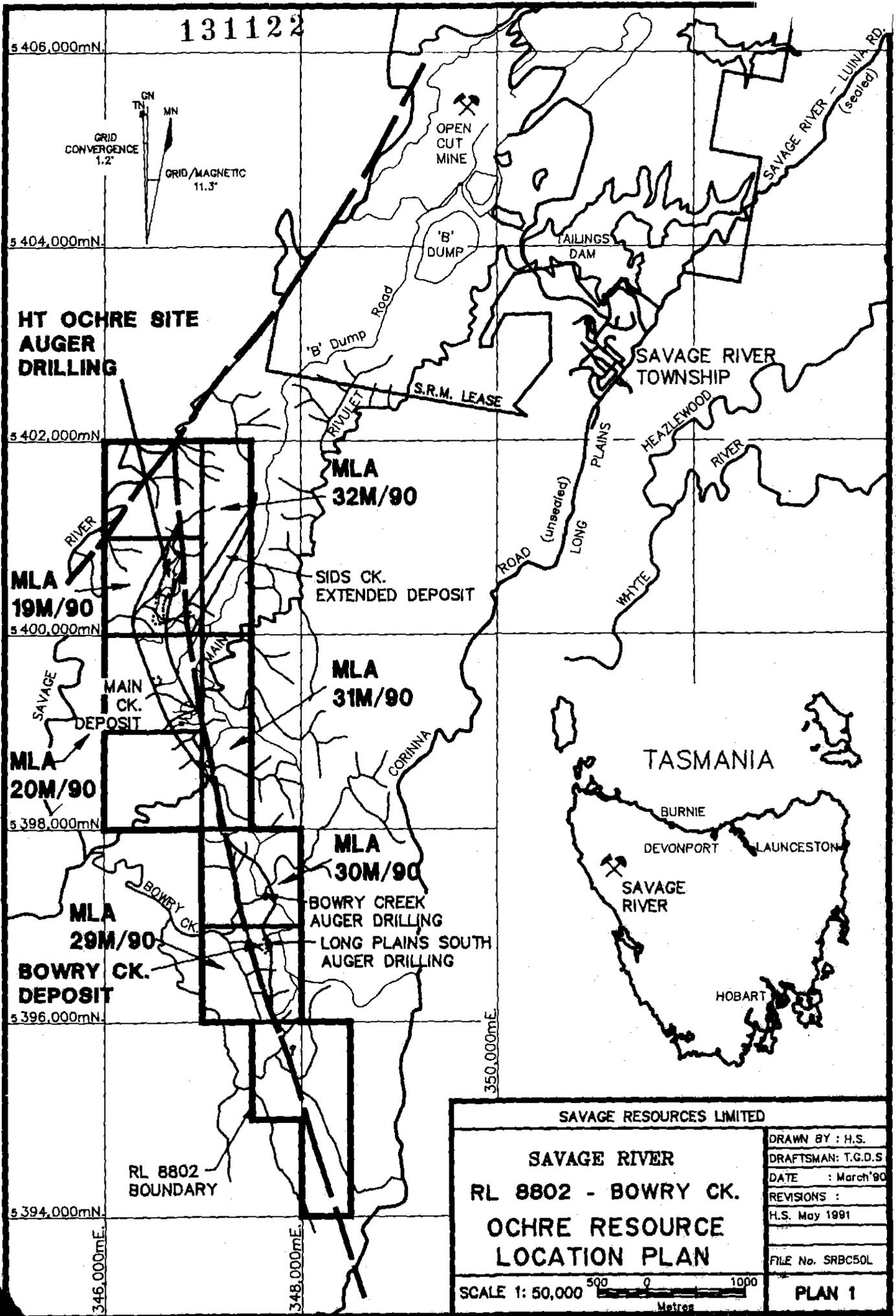
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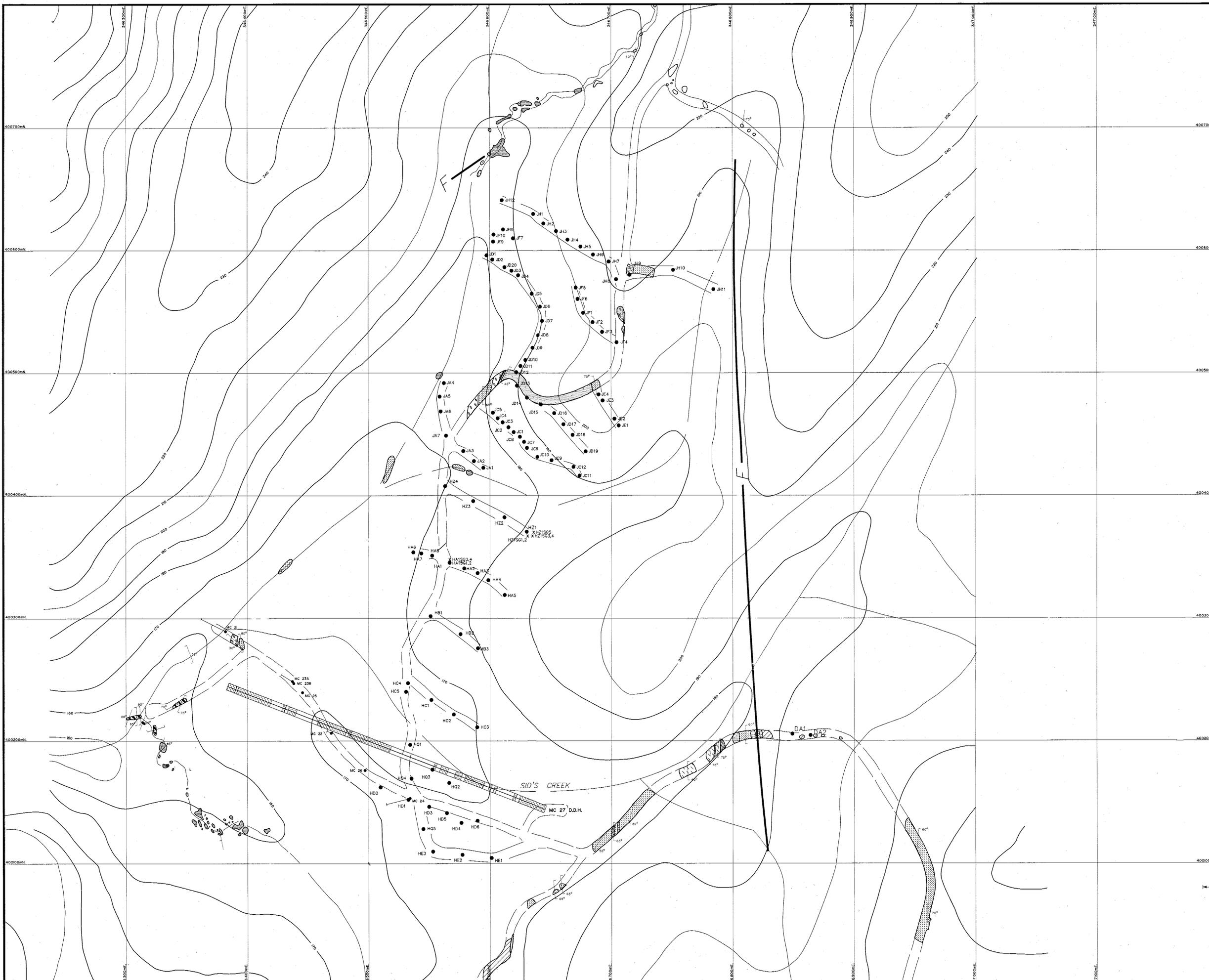


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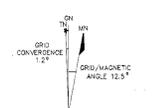
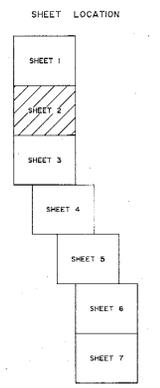


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SAVAGE RESOURCES LIMITED							
SAVAGE RIVER							
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LOCATION PLAN							
SCALE 1: 50,000							
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DRAFTSMAN: T.G.D.S							
DATE : March '90							
REVISIONS :							
H.S. May 1991							
FILE No. SRBC50L							
PLAN 1							



- LEGEND**
- CARBONATES - MAGNESITE, DOLOMITIC MAGNESITE
 - RESIDUAL 1 SAND AFTER CARBONATE
 - LIMONITE/SAND, PISOLITHS WITH SAND/OCHRE CLAY MATRIX
 - SILICA ROCK LEACHED OF CARBONATES
 - TALC
 - POROUS RESIDUAL OCHRE AFTER CARBONATE
 - LIMBER
 - REWORKED OCHRE WITH CLASTS AND CON?
 - GREENSCHIST BRECCIA USUALLY OVER CARBONATE
 - GREENSCHIST UNDIFFERENTIATED
 - GREENSCHIST WITH DISSEMINATED MAGNETITE
 - MAGNETITE ROCK
 - GREY SANDSTONE

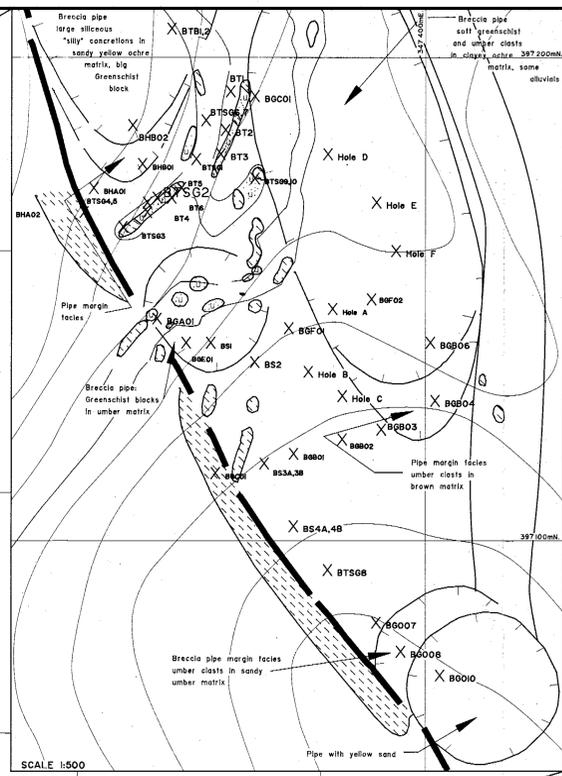
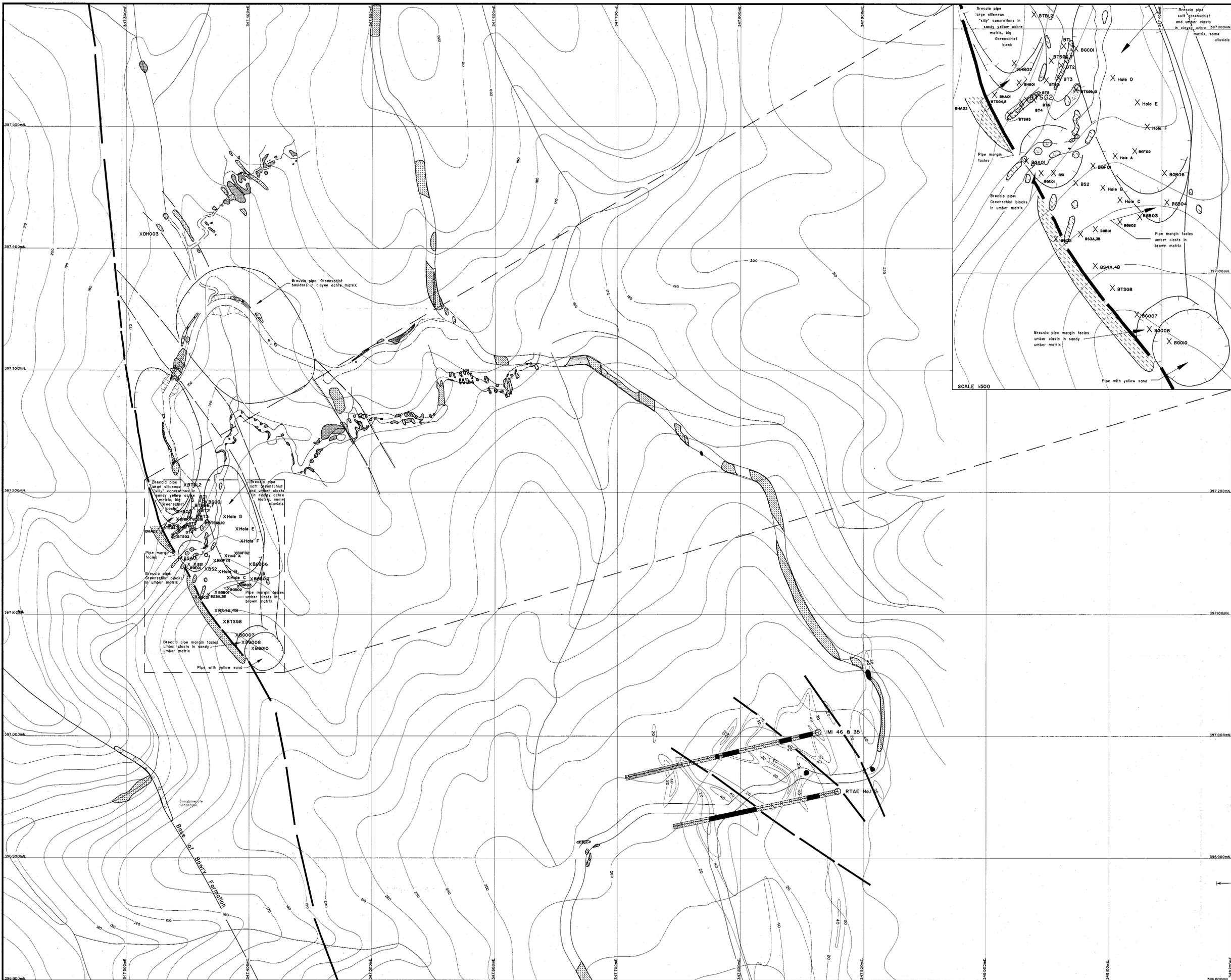


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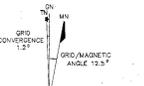
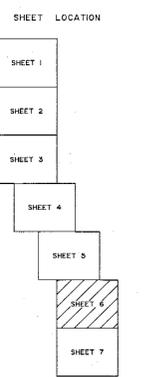
SAVAGE RESOURCES LIMITED	
SAVAGE RIVER E.I. 4 / 81	DRAWN BY: H.S.
MAIN CREEK MAGNESITE	DRAFTSMAN: T.D.S.
SHEET 2	DATE: Sep. 97
DRILLING, GEOLOGY	REVISIONS:
OUTCROP & INTERPRETATION	1. S. MAY 1998
SCALE 1:1000	FILE No. SRMCSH00C

FIG. 2.2

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- LEGEND**
- CARBONATES - MAGNESITE, DOLOMITIC MAGNESITE
 - RESIDUAL SAND AFTER CARBONATE
 - LIMONITE/SAND, PISOLITES WITH SAND/OCHE CLAY MATRIX
 - SILICA ROCK LEACHED OF CARBONATES
 - TALC
 - POROUS RESIDUAL OCHE AFTER CARBONATE
 - UMBER
 - REWORKED OCHE WITH CLASTS AND CON
 - GREENSCHIST BRECCIA USUALLY OVER CARBONATE
 - GREENSCHIST UNDIFFERENTIATED
 - GREENSCHIST WITH DISSEMINATED MAGNETITE
 - MAGNETITE ROCK
 - GREY SANDSTONE



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91-3266.

SAVAGE RESOURCES LIMITED

SAVAGE RIVER EL. 4 / 61
MAIN CREEK MAGNESITE
SHEET 6

DRILLING, GEOLOGY
OUTCROP & INTERPRETATION

SCALE 1:1000

DRAWN BY: T.E.S. DATE: FEB. 89 REVISIONS: 1. S. MAY 1991	FILE NO. 91MCSH6C FIG. 2.6
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