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NEVADA BUREAU OF MINES AND GEOLOGY/178
UNIVERSITY OF NEVADA, RENO
RENO, NEVADA 89557-0088 U.S.A.

STAR GROUP PROPERTY, GOLD HILL DISTRICT, STOREY COUNTY, NEVADA

1200 1211 Comstock.

839

EVANS COPY

An Analysis of 839

STAR GROUP PROPERTY

Gold Hill District

Storey County, Nevada

839

An Analysis of

Star Group Property

Gold Hill District

Storey County, Nevada

David LeCount Evans

June 26, 1982

I N D E X

STAR GROUP PROPERTY

Gold Hill Mining District
Storey Co., Nevada

AN ANALYSIS

DAVID LECOUNT EVANS. CONSULTING GEOLOGIST

Foreword:

Contacted by owners on May 3, the writer first visited the property on May 7, 1982. Field studies were continued on the 24 th and 26th.

Inasmuch as first personal conclusions were favorable, if one might add to established structural interpretations, from May 27 to June 6 the writer reviewed all Comstock studies, constructed a series of trial detailed maps and cross sections, applied principals suggested by earlier (1972) field studies, and considered the district's position in the light of 1982's new tectonic reasoning.

Guided by details from the above, fifteen samples were cut on June 1 and 8. Prepared for assaying by Domini Sample Preparation of Sparks, fire assays have been provided by the Nevada Assay Office, Frank W. Jones, assayer.

An orderly study and sampling of the Star Group would have been impossible without the assistance of the owners, Messrs. George Antunovich and John Curran.

Summary:

The property, 1½ miles southwest of the center of the Comstock lode, and 3/4 miles west of the Yellow Jacket-Belcher production area, (the last outstanding producers on the Comstock allignment) suggests a possible continuation of Comstock structural controls and host rocks.

Submitted maps indicate the possibility of two thrust faults; such can be conveniently projected into the major Comstock fault zone. Conclusions and recommendations are tied to the belief that the Star Group, lying between faults, despite low sample results, merits exploration.

Urged is the use of maps and sections which accompany this text.

Conclusions:

It is concluded that:

(1) with reference to Fig. 6, the three sections, comparing in section the Comstock and the Star areas, the 45° dip of major limiting-footwall structure is repeated in the study area;

(2) considering Figures 1 and 1-b, plan maps indicate a continuity of structure between the two areas;

(3) section X-X' (Figures 5 and 6) shows a relationship between Belcher, Overman and, perhaps Yellow Jacket, and the Star thrust; and Section Y-Y' (Fig.6) indicates a similar situation between the Imperial deposit and Crown Point thrust;

(4) comparable dormant possibilities along the Crown Point thrust in the Star Group block is an interesting possibility;

(5) Comstock successes were based on those scattered masses of high-grade 'Bonanza' ore (which did not outcrop) discovered only by determination and "dead-reckoning". Today's geophysical programs provide a surer approach.

Recommendations:

It is recommended that:

(1) a geophysical survey, preferably by induced potential (IP), for purposes of determining better sulphide possibilites, be made over the 13 claim area;

(2) diamond drilling be undertaken to test any geophysical anomalies.

Location of Property:

The Star property lies in section 36, Twp. 17 N, Rge. 20 E;

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section 31, Twp. 17 N, Rge. 21 E; section 1, Twp. 16N, Rge. 20 E; and section 6, Twp. 16 N, Rge. 21 E.

Located in the Gold Hill district, the south continuation of the Comstock district, center of property is 3/4 miles west of Yellow Jacket-Belcher gold-silver production.

General and Limiting Conditons:

Access: Claims are reached via a good dirt road, the Ophir Grade, branching west from State Highway 17, just north of the Imperial pit (south of Virginia City). Recent encroachment by Houston Oil and Gas operations may necessitate future repairs or re-building.

East limit of property is approximately one mile from turn-off. Approach to east and west areas is provided by jeep roads, from the Ophir Grade road and the Mt. Davidson, north trending branch.

Terrain is such that access can be made with minimum effort to any part of the property.

Climate: With elevations of 6000 to 7000 feet, a typical Nevada high-desert climate provides about 7½ inches of precipitation, most of it as light snow in winter months. Snow cover does not last and year round operation is assured.

Water Supply: at property is short (if any); however at about one mile south on American Flat, recent milling operatons appear to have had adequate supply.

Power Supply: available at Gold Hill or American Flat, both about one mile distant.

Mill Sites and Tailings Disposal: none exists at the property; however, recent efforts by H. O. & G. created a mill and tailings

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pond at an American Flat site, one mile away.

Labor Supply: The district and other Nevada mining districts would assure trained miners and millmen.

Miscellanaeous: The area is so situated that it would not infringe on the long developed rights and way of life of the nearbye communities.

Legal Title:

With reference to Figure 2, the property consists of thirteen standard mining claims, all contiguous and as follows:

Bright Star
Midnote Star
Evening Star
Morning Star
Silver Star
Luster Star
Gold Star
Blue Star
Northern Star
Western Star
South Star
Volcano
Moonlight.

Held by Messrs. George Antunovich of Sparks and John Curran of Virginia City (both Nevada), owners report that claims are properly recorded, together with Certificates of Location and accompanying maps in the Storey County Courthouse. Assessment work is complete and up to date.

Claim locations, corners and side centers are very well marked. The examination did not include a courthouse check.

History of Property and District:

It is believed that the property's various old pits, short tunnels, occasional scattered shafts and a 200 foot shaft in Crown Point ravine (just north of the Moonlight) represent activities of the early 1860s, 70s and 80s, indicated by Knickerbocker (1865), Baltimore (1861), Belcher (1868) et cetera. This is not to infer that there

was no later activity. The area's ups and downs are unquestionably related to Comstock history. Quoting from Bulletin 70, Nevada Bureau of Mines, 1969:

> " - - - The Comstock Lode was discovered in the 1850s and by 1863 had produced about $10 million of gold and silver from near surface ores - - - ".
>
> " - - - the 1870s saw the discovery of a large high-grade ore body in the 1000 foot level of the Crown Point mine - - - - - also the discovery of the Con. Virgina (1200 feet below surface) - -".
>
> " - - - production sharply declined after 1880 - - - and during the period 1900-1920 - - operations during the period were largely confined to mining old stope fills, low grade ore in the upper levels and treatment of old dumps."
>
> " - - - the period from 1920 to 1950 was marked by the mining of large tonnages of low grade ore, from open pits, and underground block caving and top-slicing methods."

Recent efforts, confined to the old, overworked lines of production, to revive Comstock mining, have not met with any success.

Bulletin 70 lists annual production in tons, ounces gold and ounces silver as well as dollars. From tables, the following totals can be compared with the history outlined above.

Period	(approx) Tons	Oz/T Au	Oz/T Ag
1859-1880	7,800,500	0.76	18.47
1881-1907	3,155,700	0.41	11.16
1908-1924	2,570,500	0.18	3.58
1925-1950	5,055,200	0.095	1.57

From other sources the nearbye Overman, having mined (1861-1877) 104,000 tons @ 0.42 Oz.Au and 5.75 Oz. Ag, for the period 1878-1937, produced only 234,000 tons @ 0.1 Oz. Au and 1.2 Oz. Ag; which closely matches the Comstock 1925-1956 average, shown above.

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Geology:

Comstock

The Star Group, well within the confines of the Comstock District, must be considered within that area's geological characteristics.

Described by Gianella (1934), Calkins (1944), Thompson (1956) and Bonham (1969)there is general agreement in the fact that the oldest rocks, consisting of metasediments and metavolcanics are of Triassic age (ie: 210 million years before present). Modern tectonic thinking would consider the material as old ocean plate. Outcrops occur south of the area, more or less west of Silver City. This analysis believes that the Triassic metamorphic units will be found at greater depth beneath the Comstock.

Of concern is the geological column of younger Tertiary rocks which have contributed to Comstock ore emplacement. Considering them from older to younger, they are as follows:

(1) Hartford Hill Rhyolite; 23 MYBP Lower Miocene ;

(2) Alta andesitic volcanic flows and breccias, with the Sutro sedimentary unit at top;lower to middle Miocene;

(3) American river andesites, intrusive into the above;

(4) Davidson granodiorite; also intrusive;

(5) Kate Peak volcanics; 12.9 MYBP;late Miocene

(6) Mineralization 12.2 million years B,P.

(7) Very recent volcanics.

Structurally all concur that the main Comstock ore bodies, have been controlled by the Comstock fault; but differences exist with some considering the Silver City fault as a continuation of the Comstock, with others continuing the Comstock southwest to west of

American Flat.

All agree that the Comstock structure is the major control with the sulphide ores lying in the broken fault zone or in other fracture systems dipping into the fault.

All consider the Comstock a normal fault, with dip of 45° East and with displacement of from 2500 to 3450 feet; as based on Sutro member occurrences in Crown Point ravine and where cut in the Sutro tunnel.

And there is agreement that the Alta unit, cropping out over 50% of the area, is the principal host rock for the gold-silver deposits.

Mineralization, slightly later than Kate Peak is described as "epithermal" which is to say "in rocks of shallow depth from low temperature hydrothermal solutions". Hydrothermal solutions can be from deep seated igneous rocks, or the water can be provided as meteoric (from surface) water moving down from above.

Geology

Star Group Area

Reference is made to Figures 2,3,4 and 5, 400 scale map and cross-sections which graphically portray the writer's mapping and interpretations. Note the legend on Figure 2 which also applies to all cross sections.

Stratigraphy:

Alta formation: The Sutro member (Ts) consisting of a sedimentary series made up of weakly bedded andesite and rhyolitic volcanic debris, as well as, a section of finely grained, evenly bedded green to gray shale, provides an excellent marker. It stands out from the underlying Alta volcanic unit. Estimated is about 125 feet of thickness.

The Alta volcanic unit, generally soft and altered, with yellow to tan coloration (and white), locally with bedding, and differs markedly from overlying Sutro. Mark is (Ta.)

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Hartford Hill rhyolite (Tr), underlying the Alta, enters the Star Group picture only on its south, and details are omitted. It is to be expected in depth.

The Triassic metavolcanics and metasediments do not reach the Star Group area; again, they are expected in depth.

Structure:

Excellent surface control (an enlargement of the 1 to 2000 sheets based on air-borne controls) provides confidence in the obvious "doming" of units between the Ophir Grade and Crown Point ravine. The folding cannot be denied; on the other hand, cause of folding lends itself to fault interpretation.

All sections show pronounced north dip from top of fold, down into Crown Point ravine; and all sections show reversal to south dip, as indicated on Section B-B', after crossing the ravine to its north side, where slopes actually parallel the dip of fault shown on sections. Two structures are considered:

Crown Point Control: Considering a Crown Point fault and projecting it down ravine center, a relationship with the Imperial can be established, with dip of fault easterly beneath the deposit (see Section Y-Y', Fig.6)

Returning up ravine with the same dip, the Crown Point structure dips south beneath the Star Group which, with its 45° and less, provides the overthrust interpretation.

Star Thrust Control: With reference to Figure 2 and the east end of the Evening Star claim, State maps show the Bright Star fault ending at its juncture with a strong northeast-southwest fault line.

The latter, developed in full to the the northeast on submitted Fig. 2, is interpreted by Section X-X'. Considering the X-X' (1000 scale) of Fig.6, note that the Star structure with 45° southeast dip fits easily into the Belcher deposit as its controlling foot-wall structure.

Referring to X-X' (400 scale) on Fig.5 the same complexities are repeated, at enlarged scale) with the footwall area of the fault showing a simple undistorted picture, but the hanging wall with younger Alta (Ta) actually beneath older Hartford Hill (Tr); a situation possibly explained by 'overturning' against a thrust fault.

Star thrust continuation to the southwest is a matter of interpretation as indicated by differences on Figures 1, 1-b and 2.

Indications are that both structures offer overthrust possibilities, that they bound the Star Group and, considering Figures 1 and 1-b, are in line with the major Comstock structure (a normal fault.)

Geology — Star Group Area

Mineralization:

Sutro Unit: Except for scattered clusters of bright red jasper, accompanied by some white opaque chert, the unit is without mineralization or alteration.

Alta Volcanic Unit: Resembling in some ways the bleached and barren Alta formation of the district, the unit does appear to have an over-amount of ferruginous clay. It is locally laced with later white quartz in veins, veinlets and pockets, with some finely divided sulphides below oxidation.

Owners have reported some free gold recovered by panning. Scattered samples of quartz mineralization, as listed below, show promising value. Note the writer's Sample # DLE 2, assaying 0.54 Ox/T in gold and 0.8 Oz/T in silver; and also his many "blanks".

All testing has been in exposed Alta, away from Sutro protective capping. Even that, cleaned off by dozer, was in the surface to near-surface horizon and badly weathered.

Suffice it to conclude that the quartz mineralization is wide spread and that the Alta is not just a bleached, barren-appearing unit.

Samples:

Fifteen samples were taken during the course of examination. Materials were cut over variable widths with weights per sample amounting to six to twelve pounds. Locations are shown on Figure 2, marked 1 through 15 by heavy lettering.

The property was sampled on February 2, 1981 by the Houston Oil and Gas Company, then active in the area. Cuts indicate that results were from chip-sampling. Numbered in a #127 group, locations are shown on Fig.2 in finer lettering.

Results of both programs, as well as samples taken by owners, indefinite as to location, are listed on suceeding pages.

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Samples:

D. L. Evans Group

Sample #	Claim	Ounces/Ton Gold	Ounces/Ton Silver	Comments
1	Midnight Star	Tr	0.1	Sutro unit
2	Midnight Star	0.54	0.8	(2)
3	Midnight Star	Tr	0.1	(3)
4	Midnight Star	0.01	0.1	(4)
5	Blue Star	0.01	0.1	(5)
6	Blue Star	Tr	0.1	(6)
7	Blue Star	0.01	0.1	(7)
8	Blue Star	0.01	0.1	(8)
9	North Star	Tr	0.1	(9)
10	Moonlight	0.02	0.1	(10)
11	Moonlight	Tr	0.1	(11)
12	Moonlight	0.01	0.1	(12)
13	Ravine Shaft	Tr	0.1	(13)
14	Volcano	Tr	0.1	(14)
15	Blue Star	0.12	0.6	(15)
	Averages	0.22	0.5	Quartz-Samples 2, 14 & 15
		0.006	0.1	Alteration-all samples

Comments:

(2) 10' trench in Alta, at Sutro contact; vertical cuts of quartz and altered rock.

(3) Red Alta soil at Sutro contact.

(4) Volcanic breccia, altered; grab across 40 feet.

(5) Cut in white to yellow gougy material with quartz fragments at base of Sutro.

(6) Long cut at common corner of Morning, Evening, Blue and Gold Stars; upper end; 20' in soft oxidized Alta.

(7) Same cut, 50' south of #6; 8 feet across rotten soft, sugary quartz; heavy weathering.

(8) Continuation of soft quartz under surface rubble.

(9) Tunnel above McKenzie cabin site. Laminated Alta, soft and oxidized; 12' of width at portal.

(10) McKenzie trend; cut north of air shaft, east side; 15' of rotten oxide and some quartz.

(11) Same cut, west side, across 35' of oxidized rotten Alta and scattered quartz.

Samples:

Comments

(12) Workings in Alta, just below Sutro cover; grab sample from dumps.

(13) Old shaft in Crown Point Arroyo; grab sample from Alta oxides on dump.

(14) In saddle; Alta just below Sutro; dozer cut, material with quartz, mixed from three shallow pits; viewed favorably, but results negative.

(15) North side of Ophir grade road; cut 100' east of old Ballard Tun, at base of Sutro; quartz and some sulphides.

Houston Group

Sample #	Ounces per Ton		Comments
	Gold	Silver	
12720	----	----	Missing
12721	0.003	0.08	
12722	0.004	0.09	See DLE 9
12723	0.100	0.19	See DLE 10&11
12724	0.004	0.18	dto
12725	0.002	0.10	See DLE 6,7,8
12726	Nil	0.05	dto
12727	0.001	0.09	dto
12728	Nil	0.04	dto
12729	Nil	0.03	dto
12730	0.001	0.06	
12731	0.002	0.09	
12732	0.004	0.04	
12733	0.002	0.08	Evening Star
12734	?	?	Blacked out
12735	?	?	Blacked out
12736	0.004	0.07	Morning Star
12737	0.004	0.07	Morning Star
12738			Missing
12739	0.002	0.02	Midnight Star See DLE 3

Samples cut by owners and in Star Group files follow on page 12.

Results are categorized under Vein Quartz and Alteration.

Samples

From Star Group Files

Vein Quartz

Date	Ounces per Ton Gold	Silver	Comments
5/69	0.093	0.31	
7/10/71	0.082	0.56	
7/10/71	0.37	Nil	
9/30/71	0.28	0.42	Midnight Star
8/27/73	0.14	0.19	Midnight Star
11/2/73	1.15	1.15	
8/27/73	0.32	0.42	Midnight Star
11/2/73	0.08	0.16	
9/4/74	0.40	0.41	
11/26/75	0.02	0.50	Luster Star, be-
11/26/75	Nil	0.44	low road.
7/14/76	0.02	0.18	
6/29/78	0.04	0.44	
6/29/78	0.560	0.52	
8/3/78	0.050	0.13	
8/3/78	0.230	0.05	
9/26/79	0.230	0.73	
	0.239	0.39	Average 17 samples

Alteration

7/16/70	0.05	0.45	
7/16/70	0.04	0.09	
7/16/70	0.01	Nil	
7/16/70	0.01	Nil	
7/16/70	0.04	Nil	Ballard Tun. Dump
7/16/70	0.03	0.14	dto
9/ 4/70	0.01	Nil	
9/ 4/70	0.01	Nil	
9/13/73	Nil	Nil	
9/13/73	0.01	Nil	
5/13/74	0.01	1.92	
5/13/74	Nil	2.50	
6/19/81	0.05	0.99	
5/ 8/74	Nil	Nil	
5/ 8/74	0.01	Nil	
9/ 4/74	Nil	Nil	
11/13/75	Nil	0.48	
11/13/75	0.010	0.57	
10/16/75	0.050	1.71	Average of 27 samples
6/19/81	0.03	0.41	
10/16/75	0.040	0.56	0.027 Oz/T Gold
8/26/77	0.010	0.19	
8/26/77	Nil	Nil	0.039 Oz/T Silver
8/13/78	Trace	0.04	
1/11/80	Trace	0.04	
1/ 7/80	0.20	0.11	
1/ 7/80	0.10	0.42	

Resume'

Star Group studies and a review of all Comstock State and Federal bulletins suggest similarities.

The Alta formation dominates the surface of both areas, but low surface values for the Comstock must remain conjecture, since details are not provided.

Quartz exposures with low values, at surface, follow the Comstock fault, and quartz,with values, cuts altered Alta, in the few Star Group prospect pits observed.

Alteration of the Alta, in the Star Group prospect area is associated with very low gold and silver values; and it is assumed that such might have characterized Comstock alteration. Supportive, perhaps,are the values of production for the period, 1925-1950 (when operators were handling large volume) consisting of 0.095 ounnces in gold and 1.59 ounces in silver.

Both areas have limiting footwall structures, the Comstock with its 45° fault and the Star Group with the writer's postulated Crown Point 40 to 45° fault. Our second limiting fault (Star Thrust) appears to have no counterpart in the Central Comstock area but is a controlling feature of the producing trend from the Imperial to the Belcher, on the south.

Trend of the Crown Point limiting structure extends to the Comstock footwall structure and its quartz exposures.

Comstock ore bodies lay as 'plumbs' in the fault, per se, and in structural controls dipping towards the fault. The few observed exposures of Star Group quartz dip counter-to and towards the Crown Point limiting fault.

Obvious are the differences in fault interpretation, ie: this analysis geared to overthrust movement, in contrast to the long-accepted

premise that the Comstock is a normal fault, with hanging wall moving down dip. However, in 1882, Becker did conclude that the range was "shoved upward".

Despite this major difference in interpretation, the fact remains that the Star Group area, with its structural indications, reflects an area with dormant ore possibilities.

Structure is strong and would serve several purposes:

(1) movement up structure would shatter the moving hanging-wall mass and provide lines of access for future mineralizing solutions;

(2) a major structure, such as the Crown Point thrust, would be the principle control for upward moving-mineral bearing solutions;

(3) secondary fracture systems in the hanging-wall mass, dipping into the Crown Point footwall structure, would provide ore-producing controls such as those in the hanging wall area of the Comstock.

Recapitulation:

Repeated is the observation that the surface is such that access to any part of the property provides no problems.

Assuming that geophysical results justify drilling, initial probing per hole (with water table at or about 6600 feet) should not exceed 400 feet for testing oxide and sulphide possibilities. Should initial drilling be favorable, additional penetration per hole would approach 800 feet.

Respectfully submitted,

David LeCount Evans

Reno, Nevada,
June 26, 1982.

DAVID LECOUNT EVANS, CONSULTING GEOLOGIST

Houston shuts down operations

6-26-82

GOLD HILL — A brief renewal of mining on the famed Comstock Lode, once the richest place on earth, is ending with the closure of a silver ore mill and laying off of 40 mill workers.

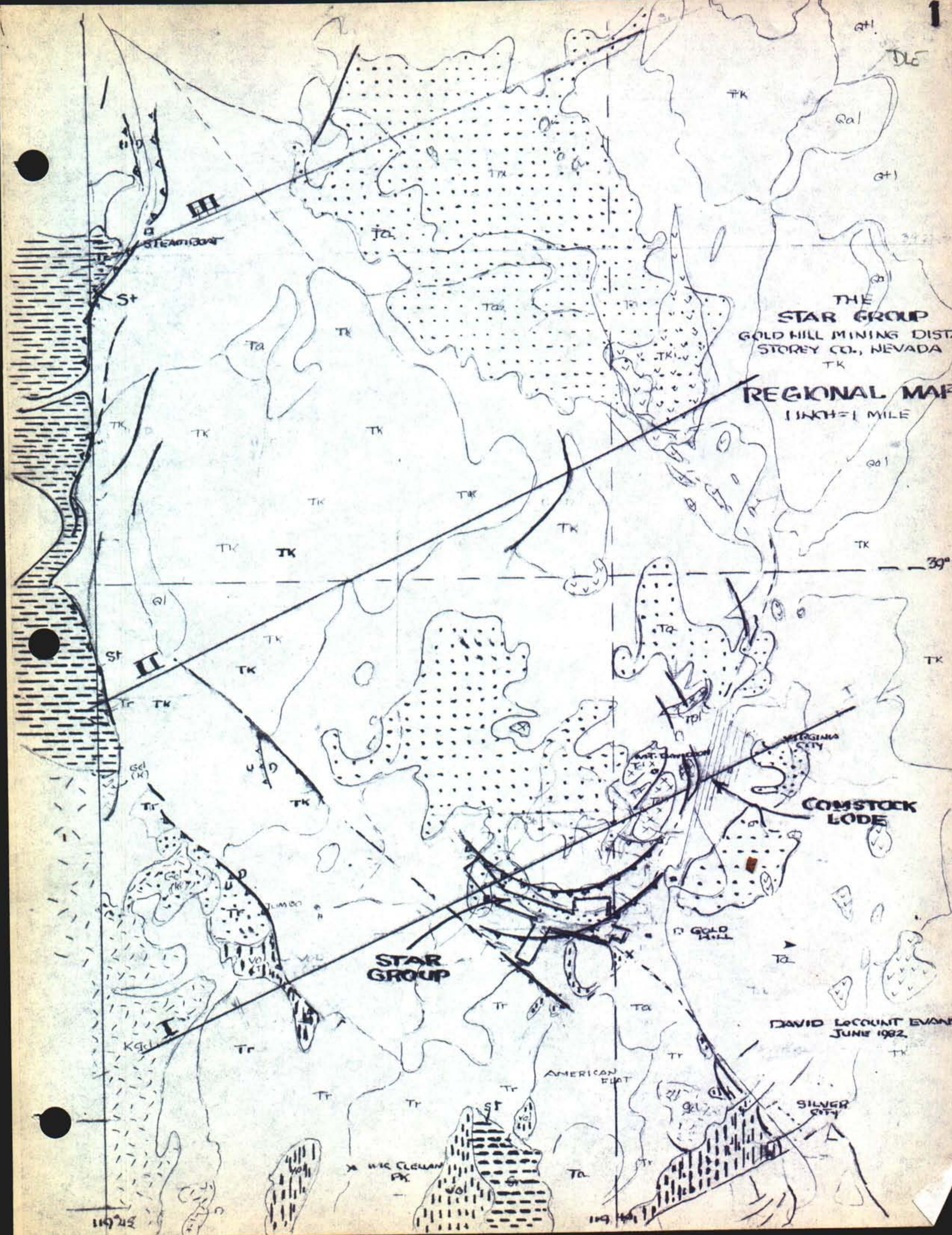
Houston International Minerals Corp., which alternatively caused excitement and hot debate in its four-year mining venture here, announced Friday its Comstock Mill at nearby American Flats will be mothballed next Wednesday.

"It's the closing of another chapter," said Dan Martin, Houston's Nevada manager. "Whether the book goes on from here is anybody's guess."

There's still undetermined mineral wealth deep below the famed old mining towns of Gold Hill, Silver City and Virginia City, Martin said, but it would take money and "a lot of intestinal fortitude" to unearth it.

Silver and gold worth an estimated $500 million to $700 million at the time was carted out of labyrinthine tunnels deep in the arid mountains here before mining peaked a century ago.

There was renewed mining activity in the early 1900s, but until Houston started exploration in 1978 there had been no large-scale mining activity since the 1930s.


THE
STAR GROUP
GOLD HILL MINING DIST
STOREY CO., NEVADA
REGIONAL MAF
1 INCH=1 MILE
COMSTOCK
LODE
STAR
GROUP
DAVID LeCOUNT EVAN
JUNE 1982
STEAMBOAT
VIRGINIA
CITY
GOLD
HILL
SILVER
CITY
AMERICAN
FLAT
III
II
I
39°
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TK
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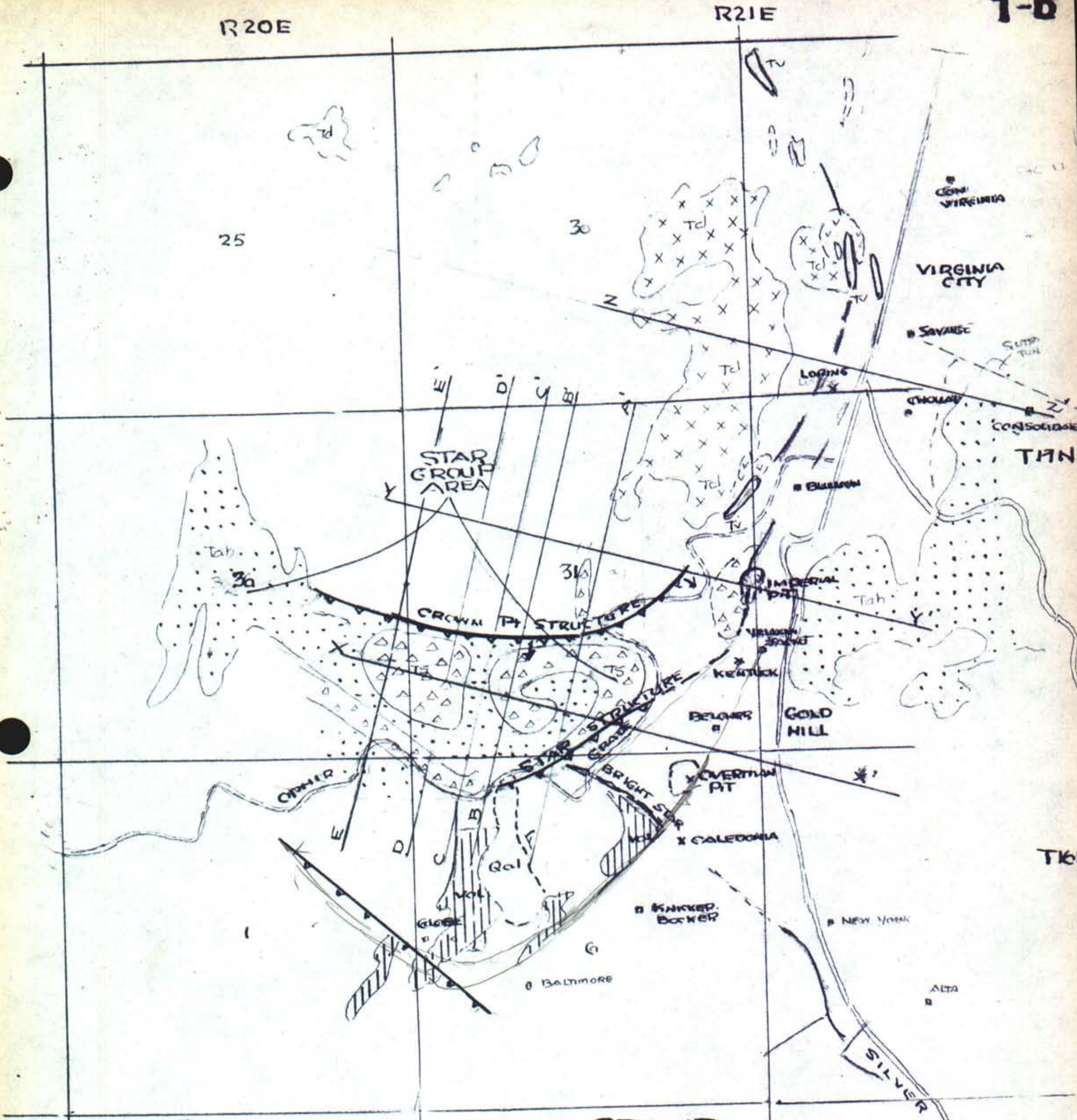


STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

COMSTOCK AREA INDEX MAP

1 INCH = 2000 FT.

DAVID LeCOUNT EVANS
CONS. GEOL.
JUNE 1982

JOB NO. ..... SUBJECT ..... DATE ..... BY .....
SHEET NO. ..... OF ..... DATE ..... CHKD. BY .....

WESTERN STAR

SILVER STAR

MIDNIGHT STAR

CROWN POINT THRUST

RANGE SHEET 13

MORNING STAR

BLUE STAR

EVENING STAR

LUSTER STAR

SOUTH STAR

GOLD STAR

BRIGHT STAR FAULT

THRUST FAULT

OVERMAN PIT

MOONLIGHT VOLCANO

NORTHERN STAR

6800

6600

6400

7000

6200

6000

Qal STREAM DEPOSITS

TS SUTRO SEDIMENTARY MEMBER OF ALTA FORMATION - LOWER TERTIARY

Ta LAVAS & PYROCLASTICS OF ALTA - STIPPLING DENOTES HIGH ALTERATION LOWER TERTIARY.

Tr HARTFORD HILL RHYOLITE VOLCANIC ASH - LOWEST TERTIARY

"+" SYMBOL ON SECTIONS

Vol META VOLCANIC ROCKS OF TRIASSIC AGE OCEAN PLATE ORIGIN MERITS CONSIDERATION

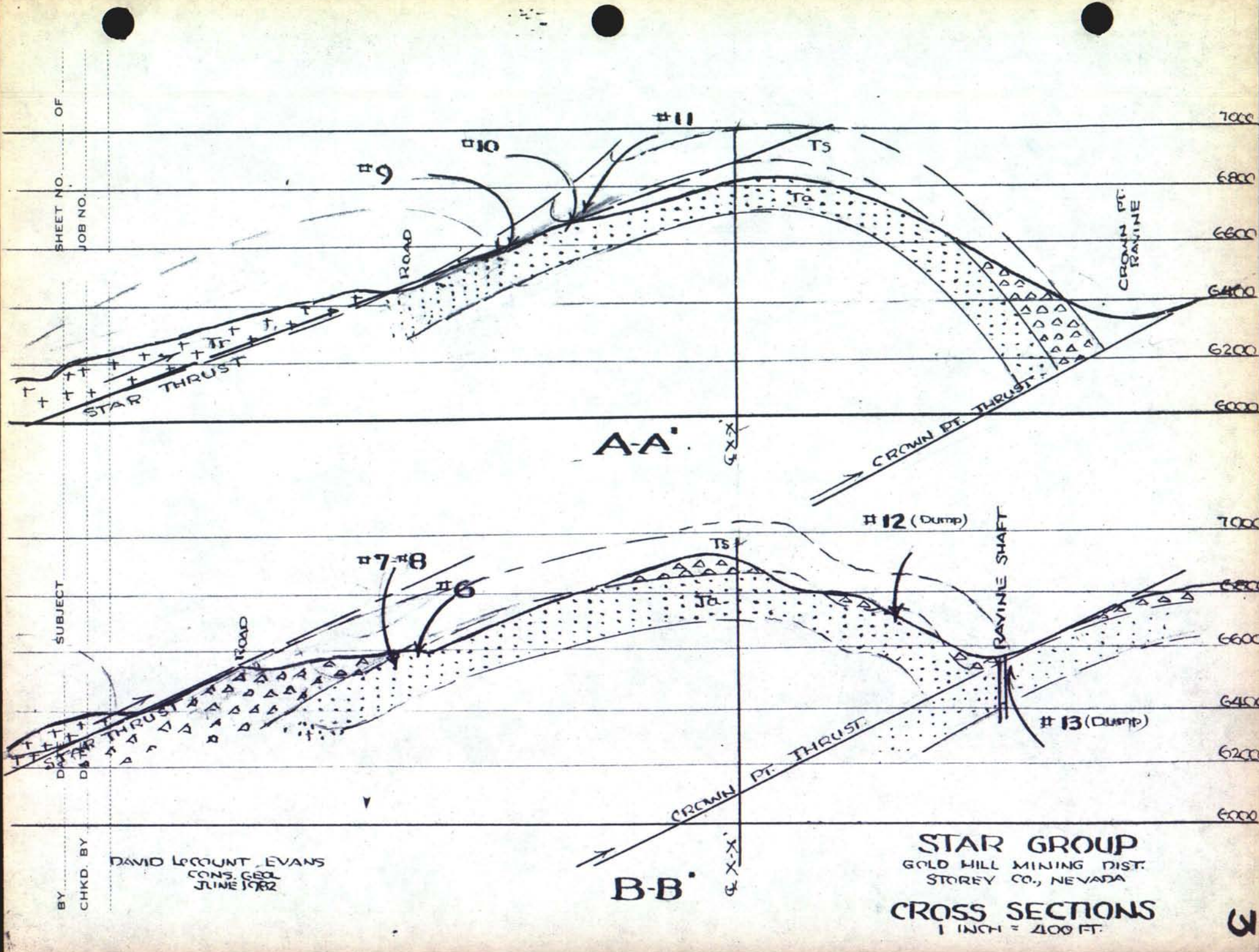
QUAT. / EOCENE OLIGOCENE / TRIASSIC

DAVID Le COUNT EVANS
CONS. GEOL.
JUNE 1982

STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA

SURFACE GEOLOGY
SAMPLE LOCATIONS
CLAIMS

1 INCH = 400 FT



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JOB NO.

SUBJECT

BY DAVID LeCOUNT EVANS
CONS. GEOL
JUNE 1982

CHKD. BY

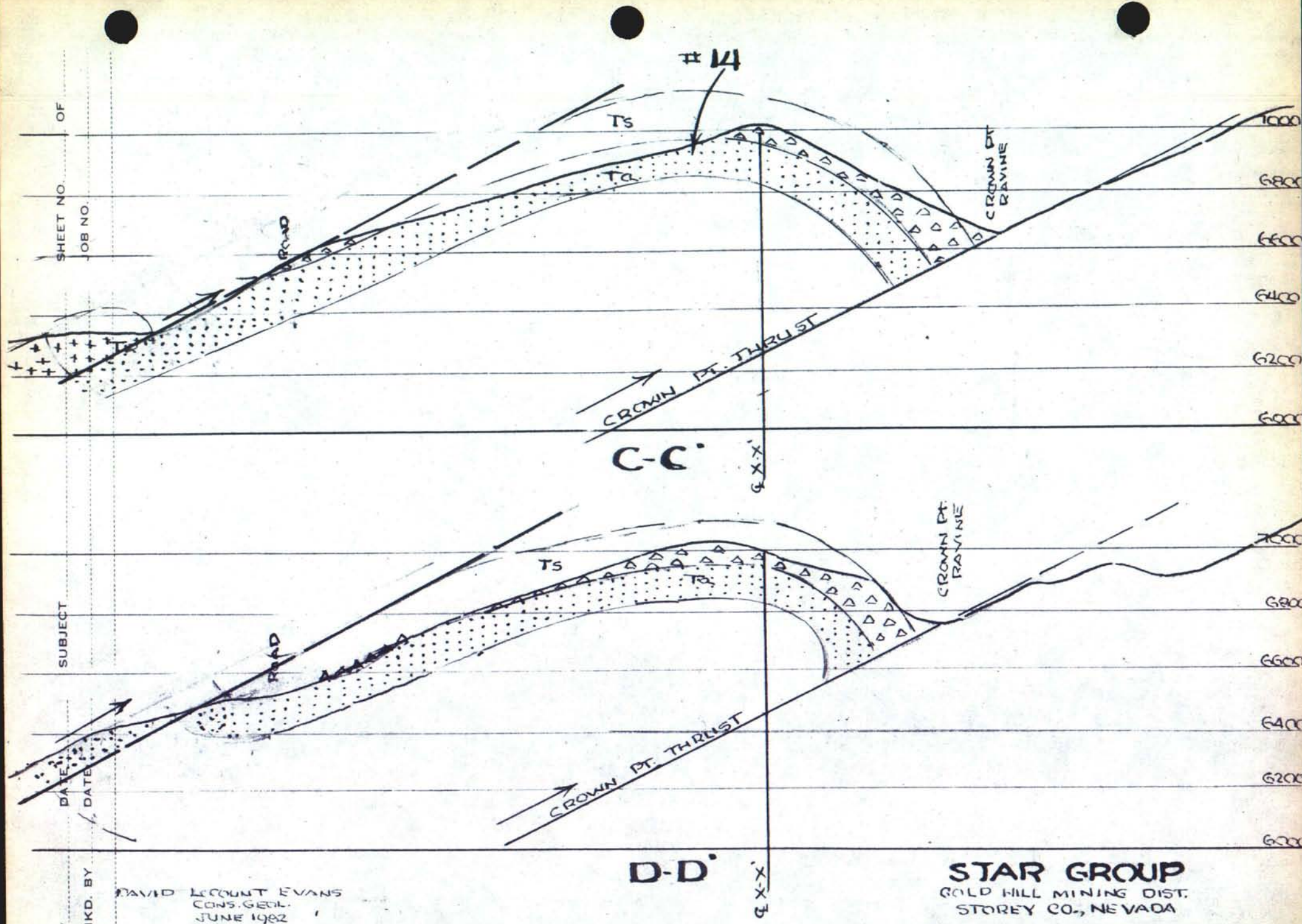
STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

CROSS SECTIONS

1 INCH = 400 FT.

3



SHEET NO. OF

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JUNE 1982

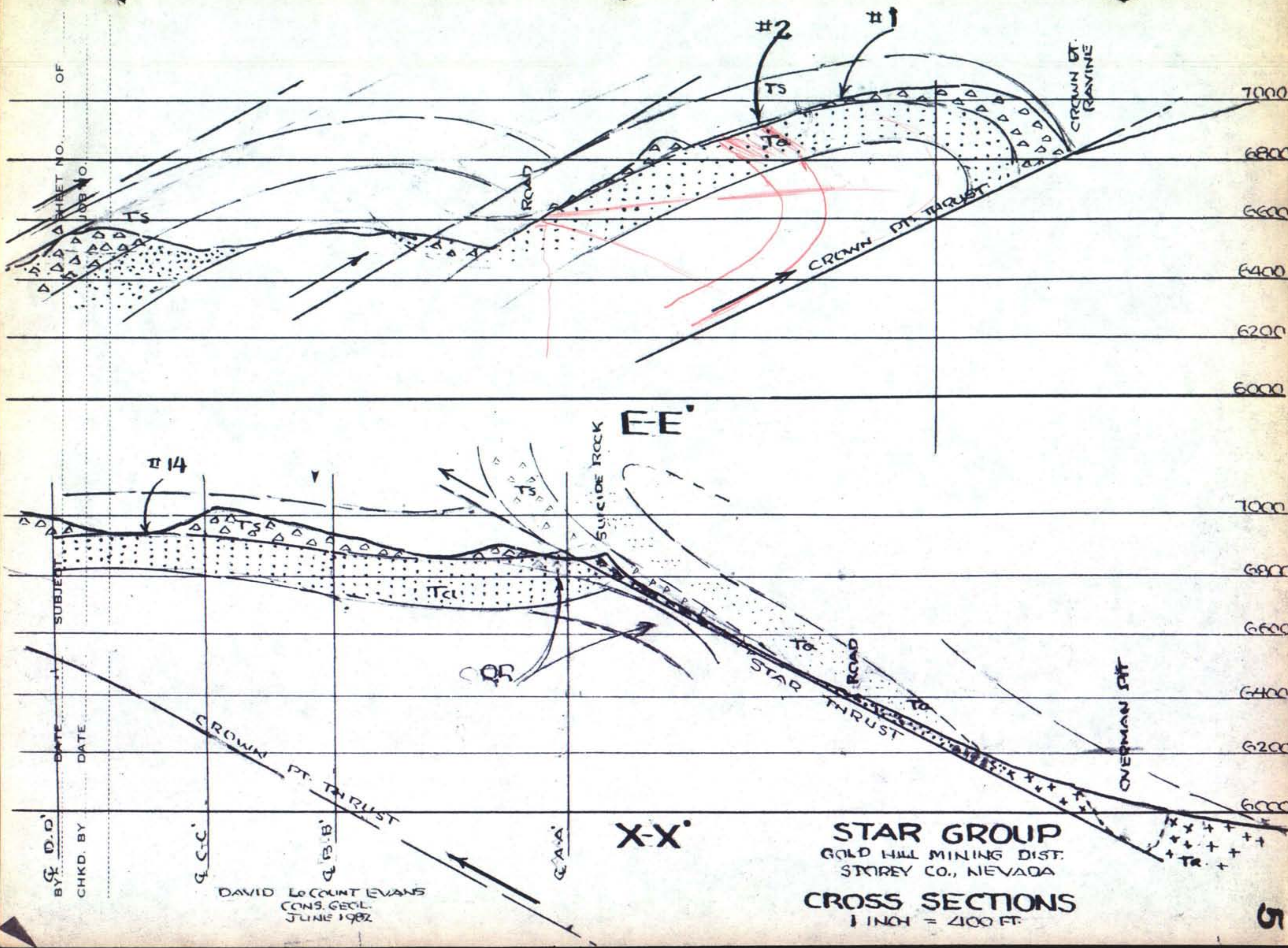
STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

CROSS SECTIONS

1 INCH = 400 FT.

4


#2
#1
TS
Ta
CROWN PT. RAVINE
ROAD
CROWN PT. THRUST
7000
6800
6600
6400
6200
6000
E-E'
#14
TS
Ta
SUICIDE ROCK
STAR THRUST
ROAD
OVERMAN PT
CROWN PT. THRUST
QR
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X-X'
D-D'
C-C'
B-B'
A-A'
SHEET NO.
OF
JOB NO.
SUBJECT
BY
DATE
CHKD. BY
DATE
DAVID LeCOUNT EVANS
CONS. GEOL.
JUNE 1982
STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA
CROSS SECTIONS
1 INCH = 400 FT.
5

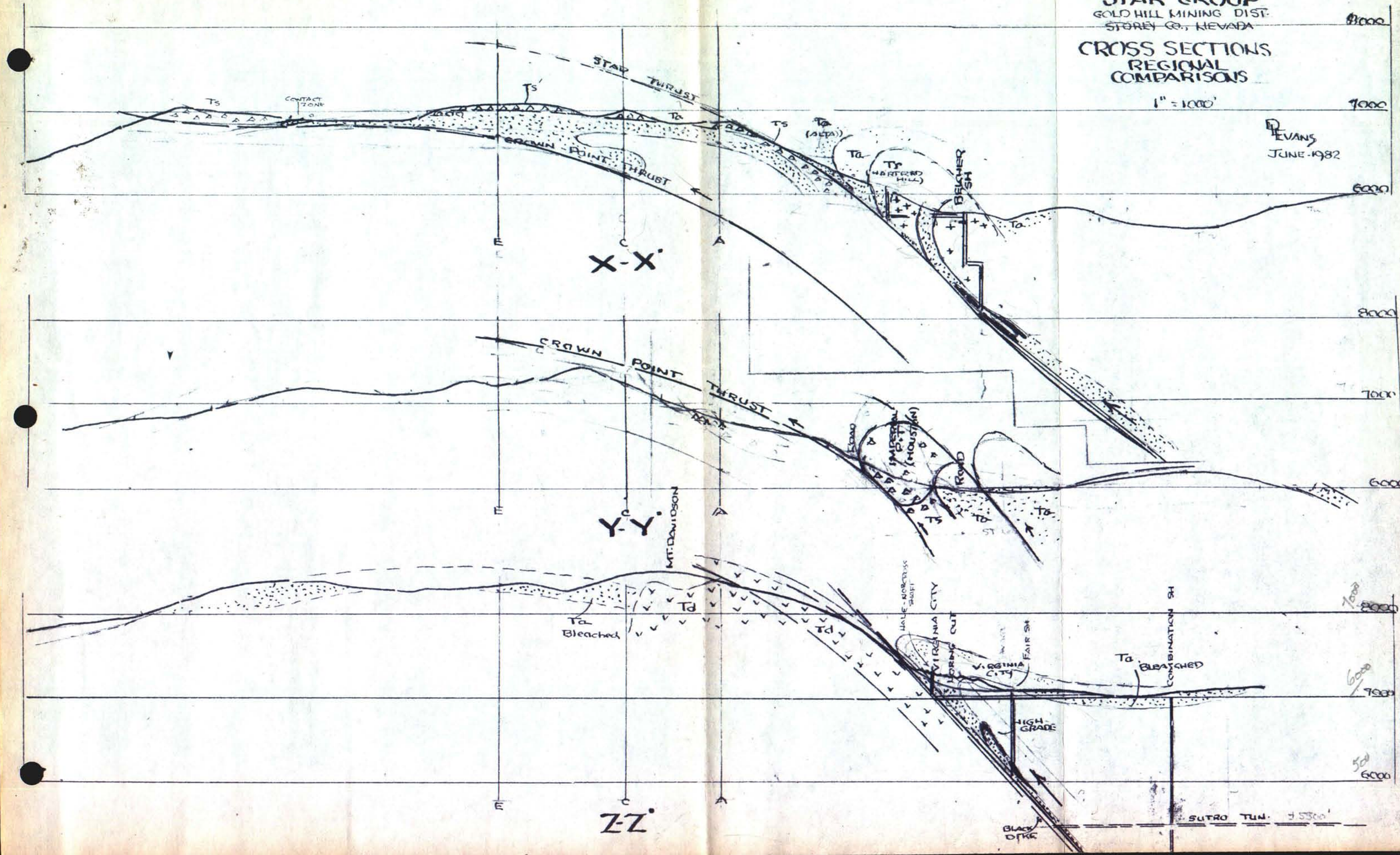
STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

CROSS SECTIONS REGIONAL COMPARISONS

1" = 1000'

D. L. EVANS
JUNE-1982



R20E-R21E

T17N

T16N

COMSTOCK DISTRICT

STOREY CO., NEVADA

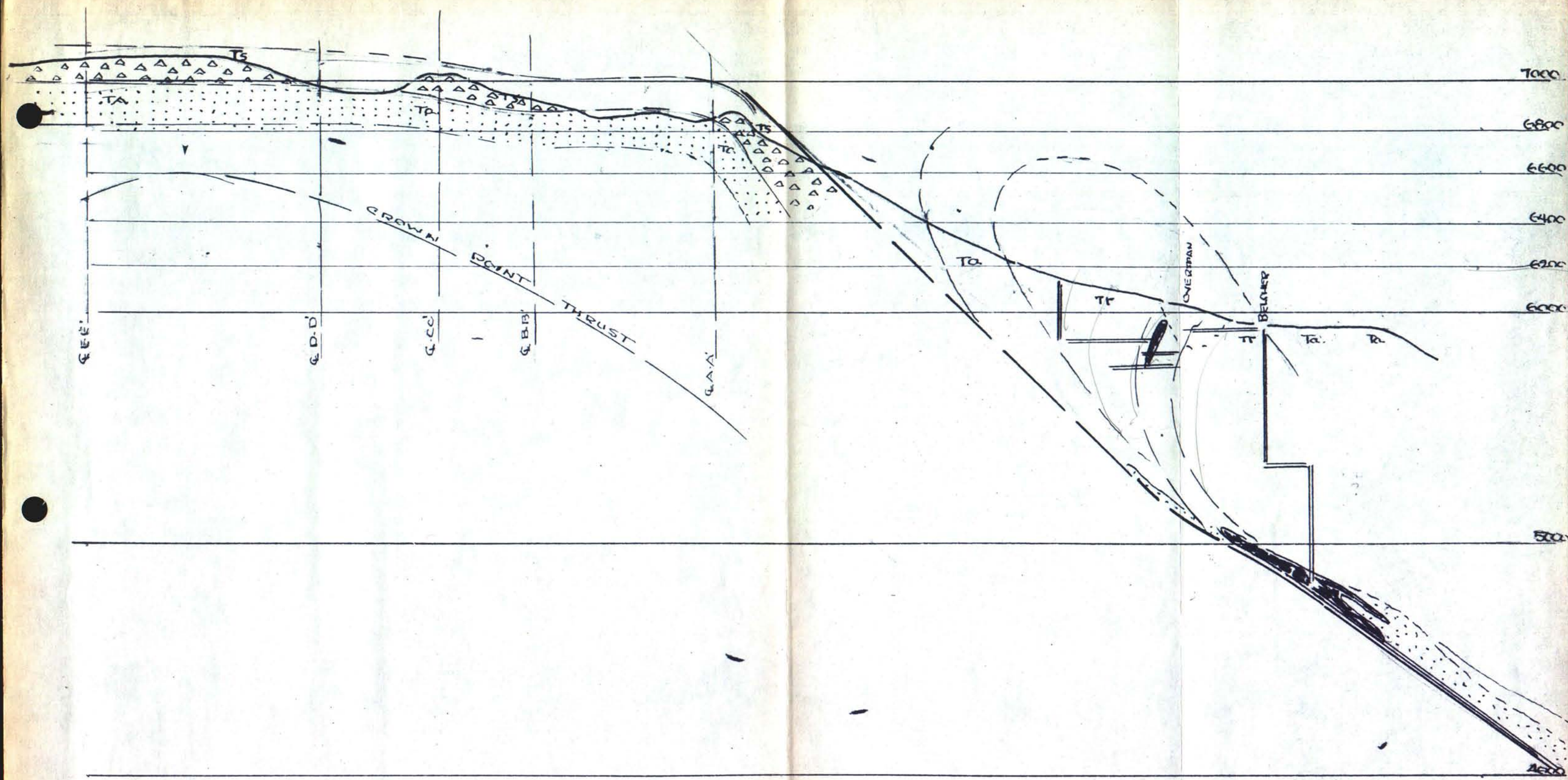
SURFACE GEOLOGY

1 IN = 2000 FT.

AFTER F.C. CALKINS
1944

WITH ADDED INTERPRETATION
AS MAPPED BY
DAVID LeCOUNT EVANS
1972
1982

D.L. EVANS
7/20/82



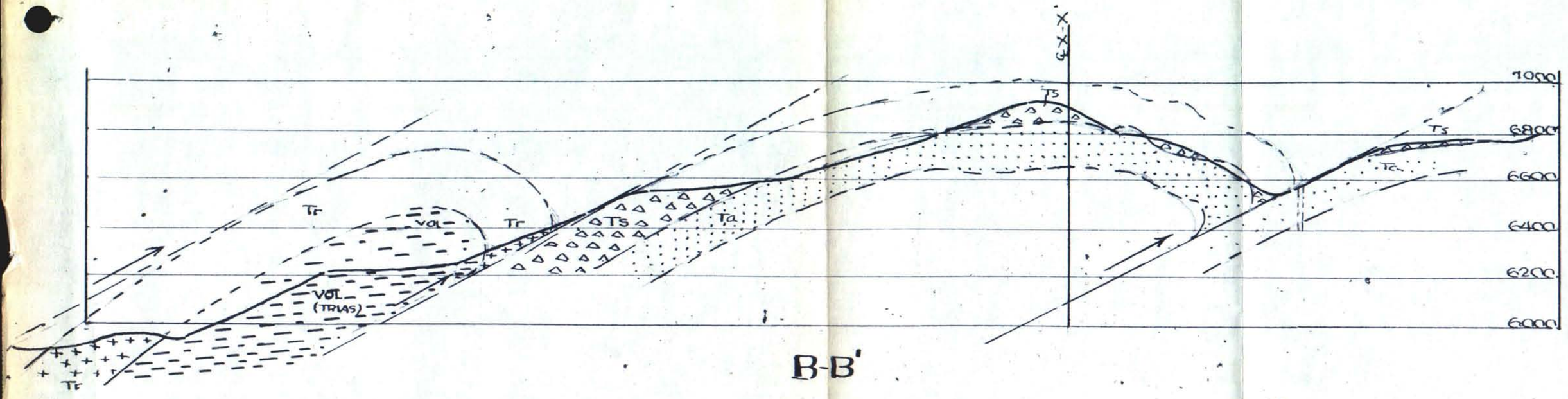
DAVID LeCOUNT EVANS
CONS. GEOL.
JULY - 1982.

STAR GROUP

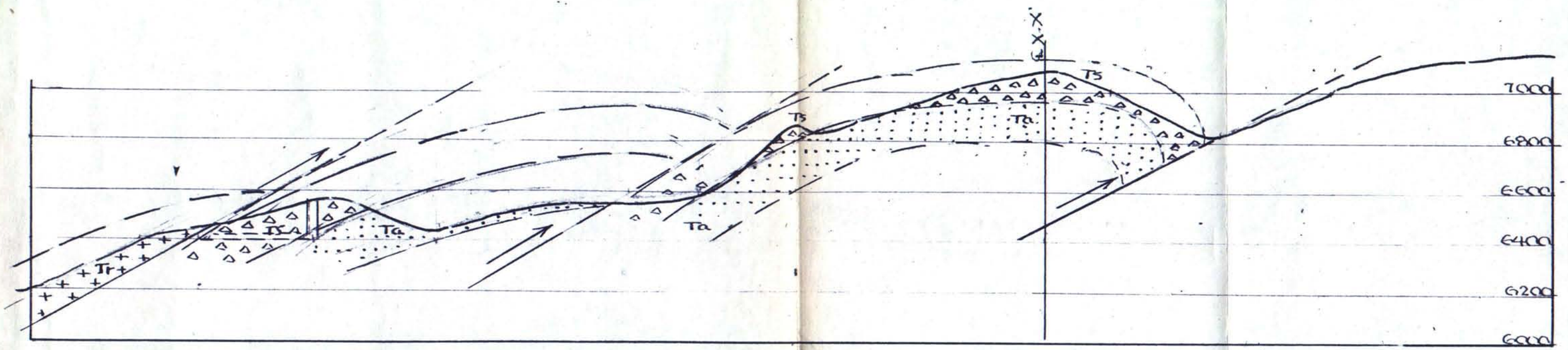
GOLD HILL MINING DIST.
STOREY CO., NEVADA

EXTENDED SECTION X-X'

1 IN. = 400 FT.



B-B'



E-E'

DAVID LeCOUNT EVANS
CONS. GEOL
JULY-1982

STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

EXTENDED SECTIONS

1 IN. = 400 FT.

R21E

31

T17N

T16N

CROWN PT. THRUST SURFACE

CROWN PT. THRUST AT 6000 DATUM

SURFACE OXIDE ZONE A

ZONE A AT 6000 DATUM

ZONE B AT 6000 DATUM

CROWN PT THRUST AT 5000 DATUM

OPHIR GRADE

STAR FAULT (SURFACE)

POST-TYLER THRUST
PRE-CROWN PT. THRUST

SILVER CITY TREND

DH-1
DH-2
DH-3
DH-4
DH-5
DH-6

AIR SH.

YELLOW JACKET
1,977,000 T
Au - 0.33 oz
Ag 7.52 oz
GROSS
$17,016,736

KENTUCK
211,623 T
Au: 0.65 oz.
Ag: 10.63 oz
Gross $ 5,763,296

CROWN POINT

BELCHER

2,277,272 T
Au - 0.82 oz
Ag 10.69 oz
GROSS
$ 20,378,601

OVERMAN PIT
5695

CALEDONIA
300,5 T
Au: 0.32 oz
Ag: 5.15 oz.
Gross
$400,000

6

PLAN MAP

BELCHER AREA THRU STAR GROUP

REGIONAL PROJECTIONS WEST

LISING

YELLOW JACKET, KENTUCK
CROWN POINT & BELCHER
UNITS AND CONTROLS

THRUST ALTERNATIVE
INTERPRETATION

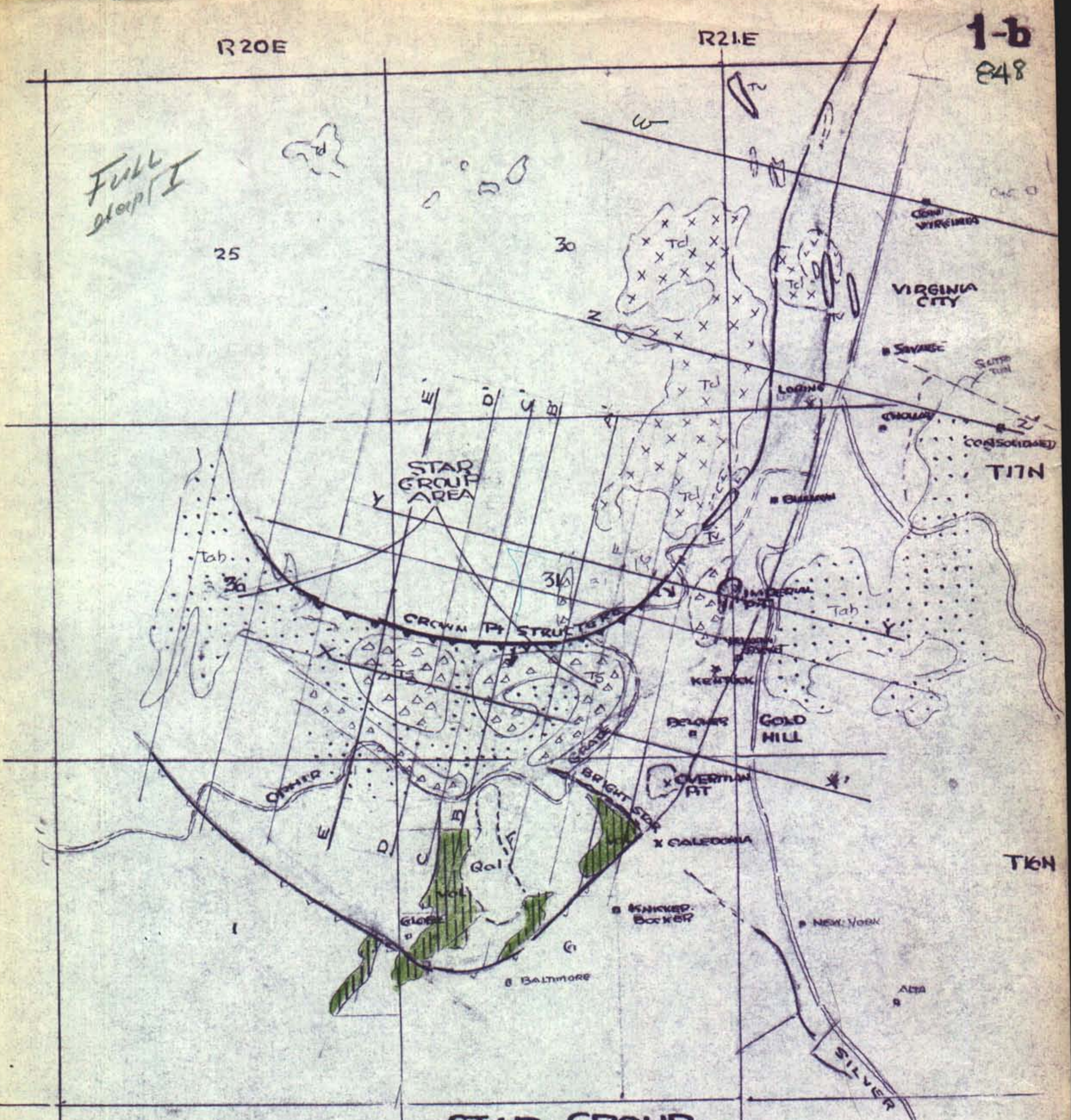
APPLIED TO

ALL CROSS SECTIONS

1"=400'

DAVID Le COUNT EVANS
CONS. GEOL.

JANUARY 2, 1985
RENO, NEVADA



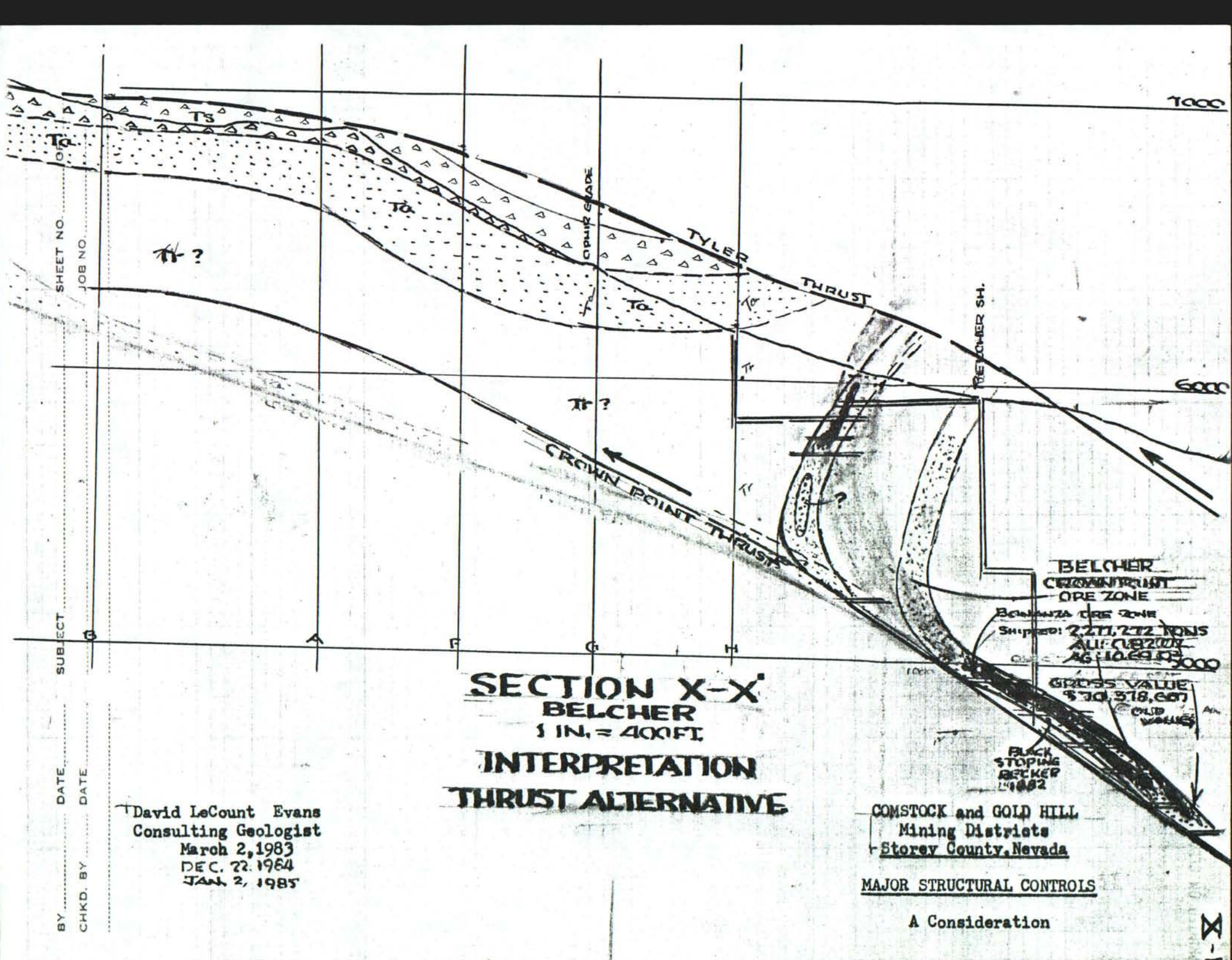
STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

COMSTOCK AREA INDEX MAP

1 INCH = 2000 FT.

DAVID LeCOUNT EVANS
CONS. GEOL.
JUNE 1982
FEB. 1983



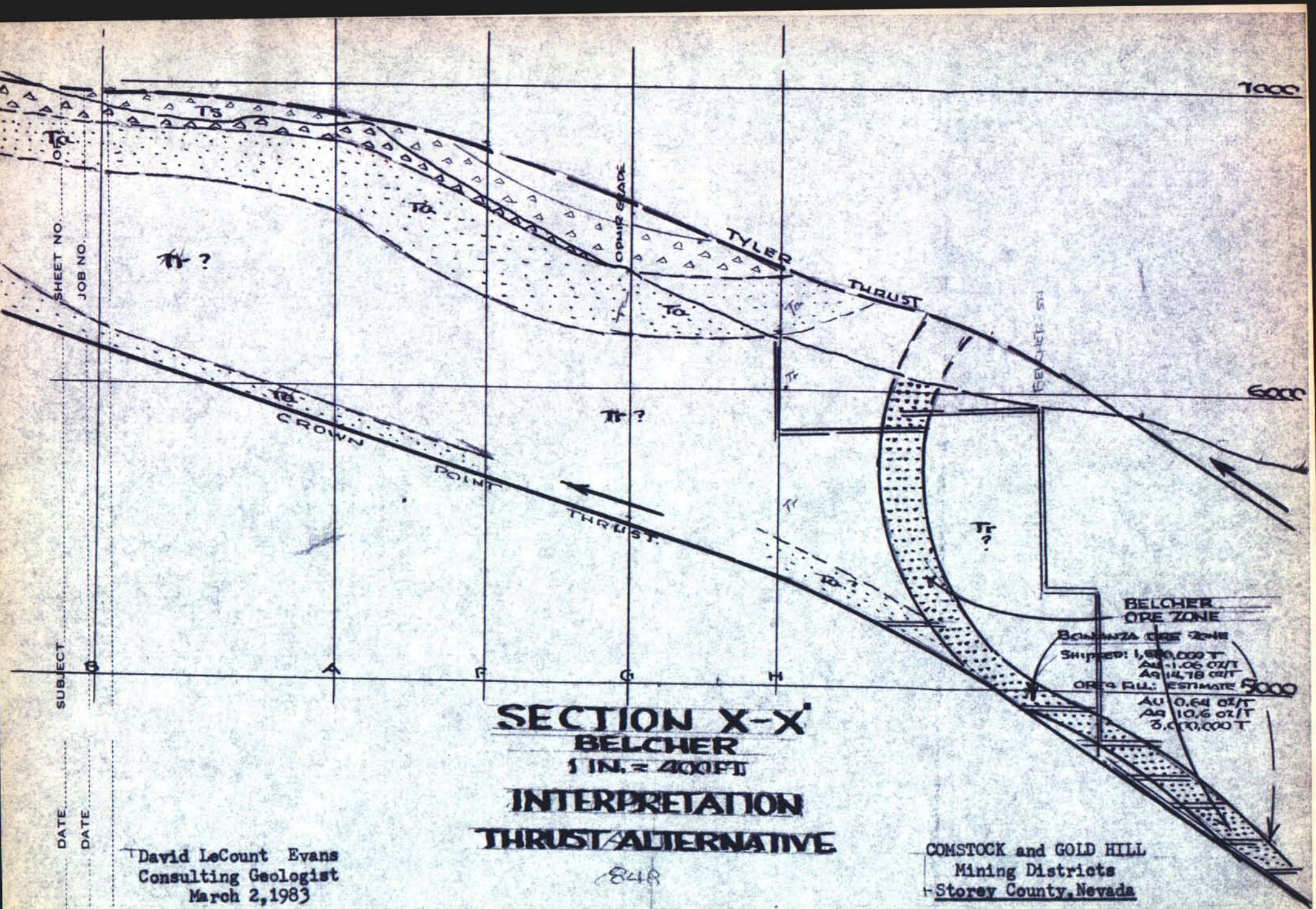
SECTION X-X'
BELCHER
1 IN. = 400 FT.
INTERPRETATION
THRUST ALTERNATIVE

David LeCount Evans
Consulting Geologist
March 2, 1983
DEC. 22, 1984
JAN. 2, 1985

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration



SECTION X-X'

BELCHER

1 IN. = 400 FT

INTERPRETATION

THRUST ALTERNATIVE

848

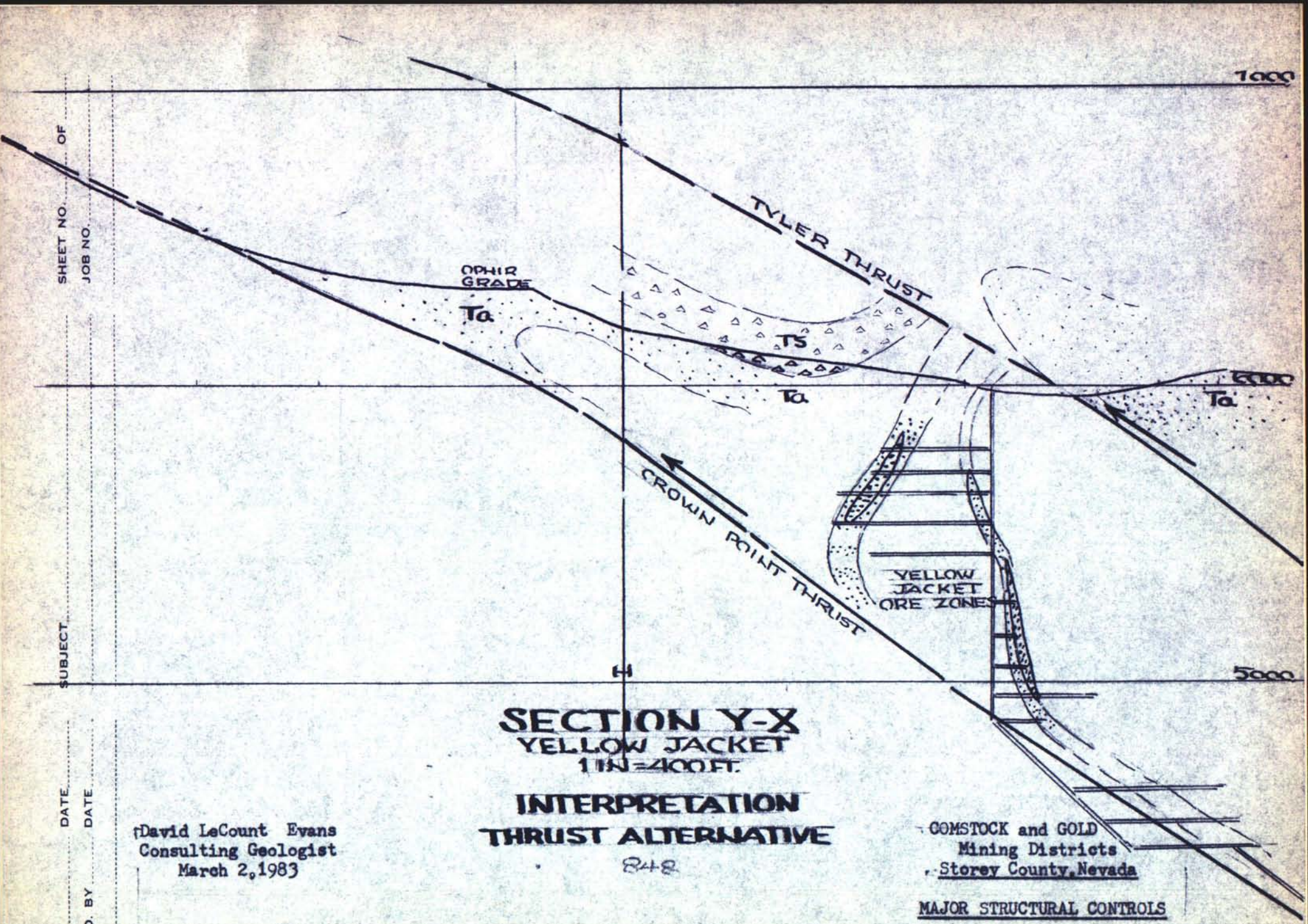
David LeCount Evans
Consulting Geologist
March 2, 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

SUBJECT
DATE
BY
CHKD. BY
DATE
SHEET NO.
JOB NO.



SECTION Y-X
YELLOW JACKET
1 IN = 400 FT.

INTERPRETATION
THRUST ALTERNATIVE

848

David LeCount Evans
Consulting Geologist
March 2, 1983

COMSTOCK and GOLD
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

SUBJECT

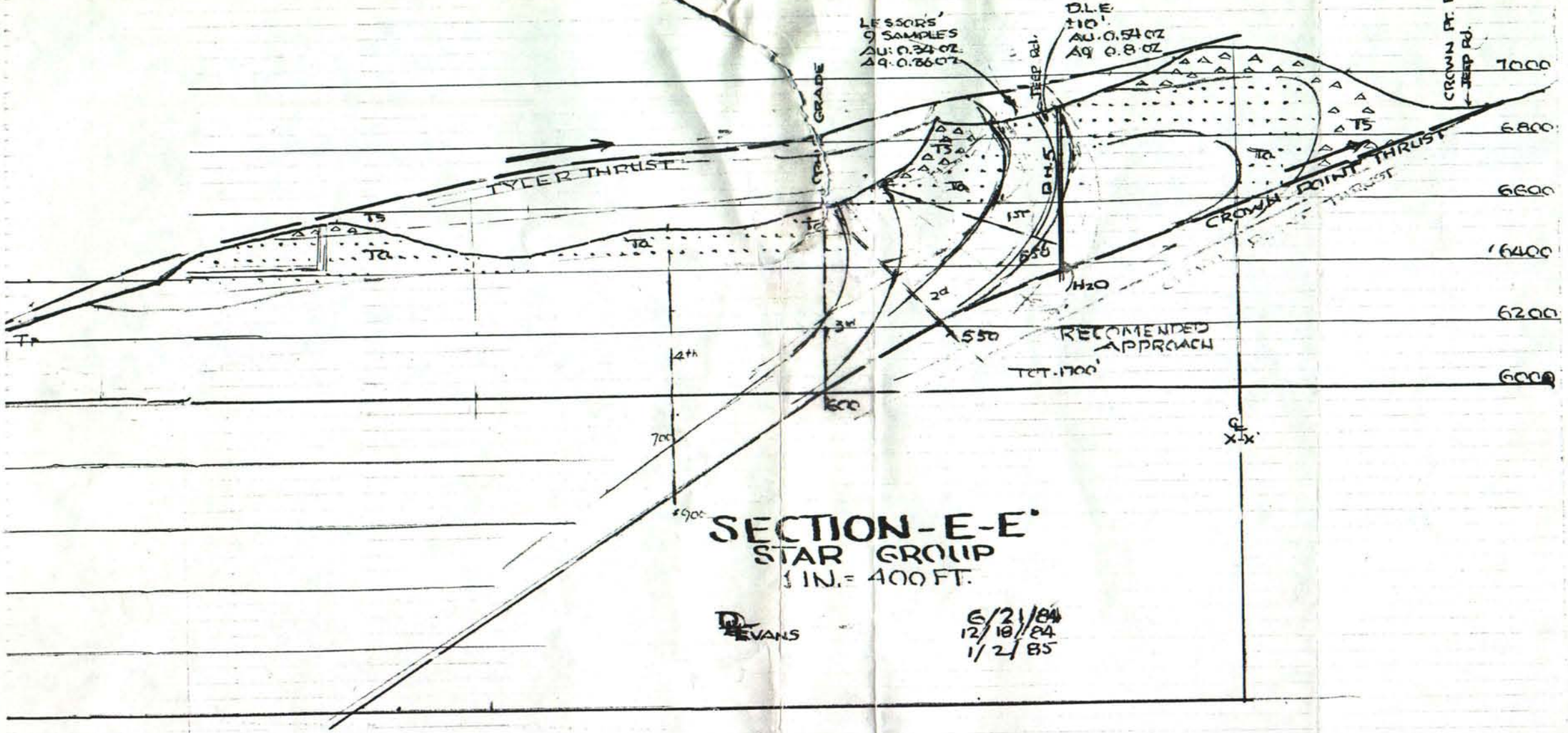
SHEET NO. OF

JOB NO.

BY DATE

CHKD. BY DATE

IX-b-4

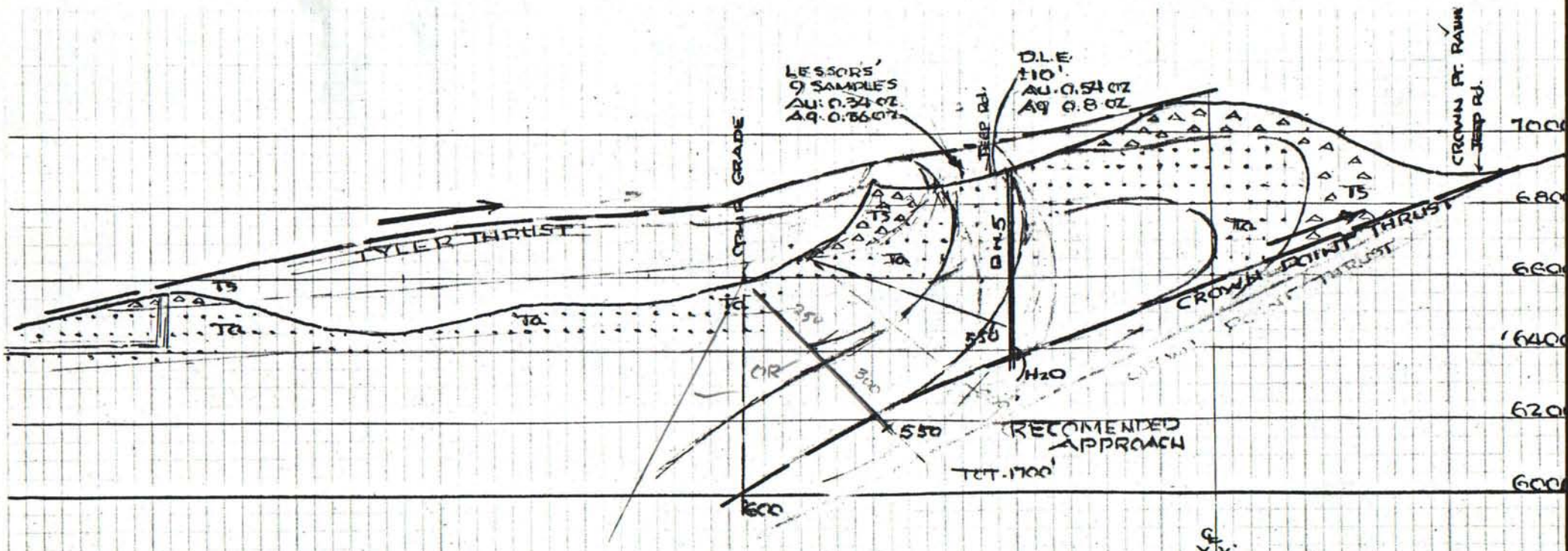


SECTION-E-E'
STAR GROUP
1 IN. = 400 FT.

D.E. EVANS

6/21/84
12/18/84
1/2/85

FILE
681

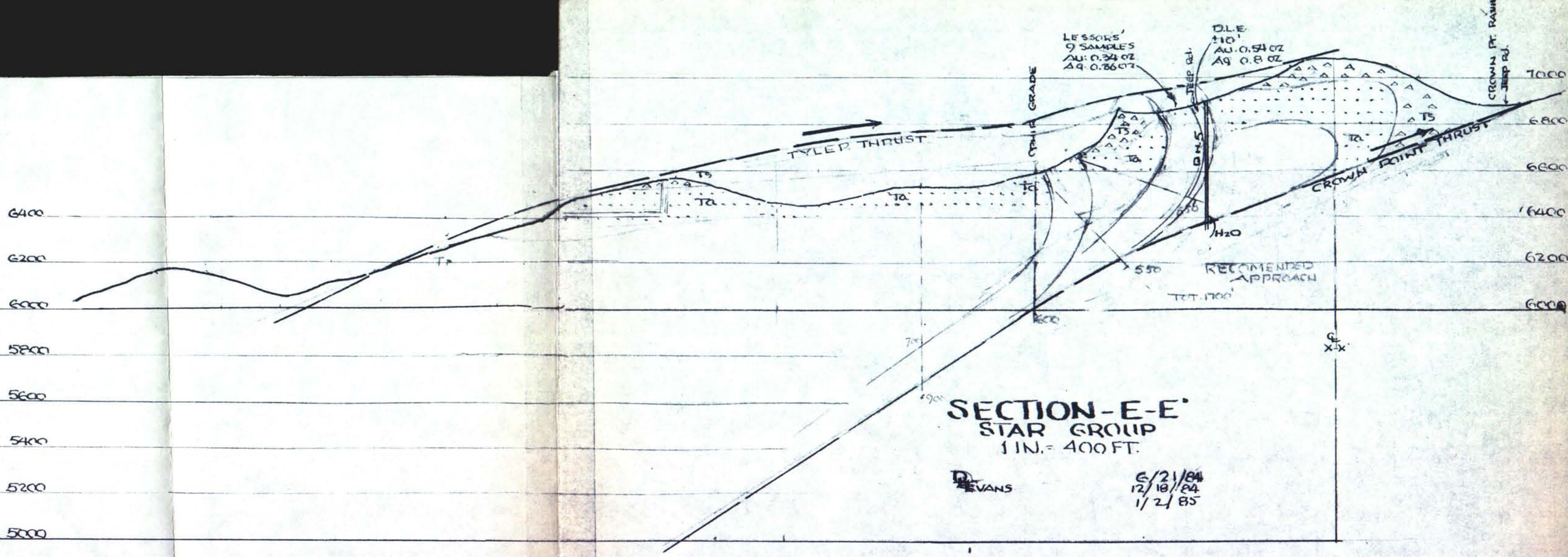


SECTION - E-E'
STAR GROUP
1 IN. = 400 FT.

DE

6/21/84
12/10/84

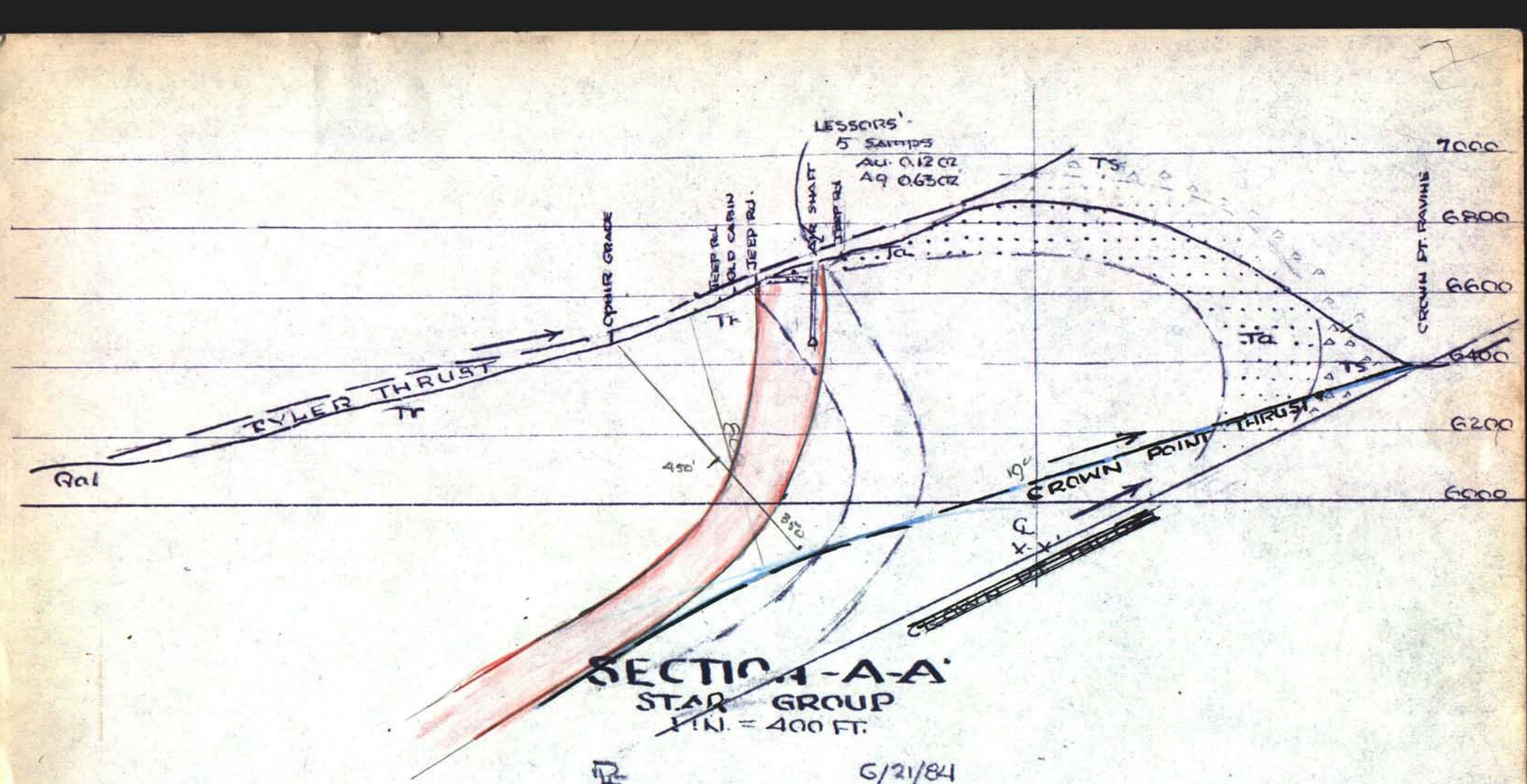
250 x 30 = 7500
350 x 20 = 7000
9500
140 samples = 1000
10500



SECTION - E-E'
STAR GROUP
1 IN. = 400 FT.

D. EVANS

6/21/84
12/18/84
1/2/85

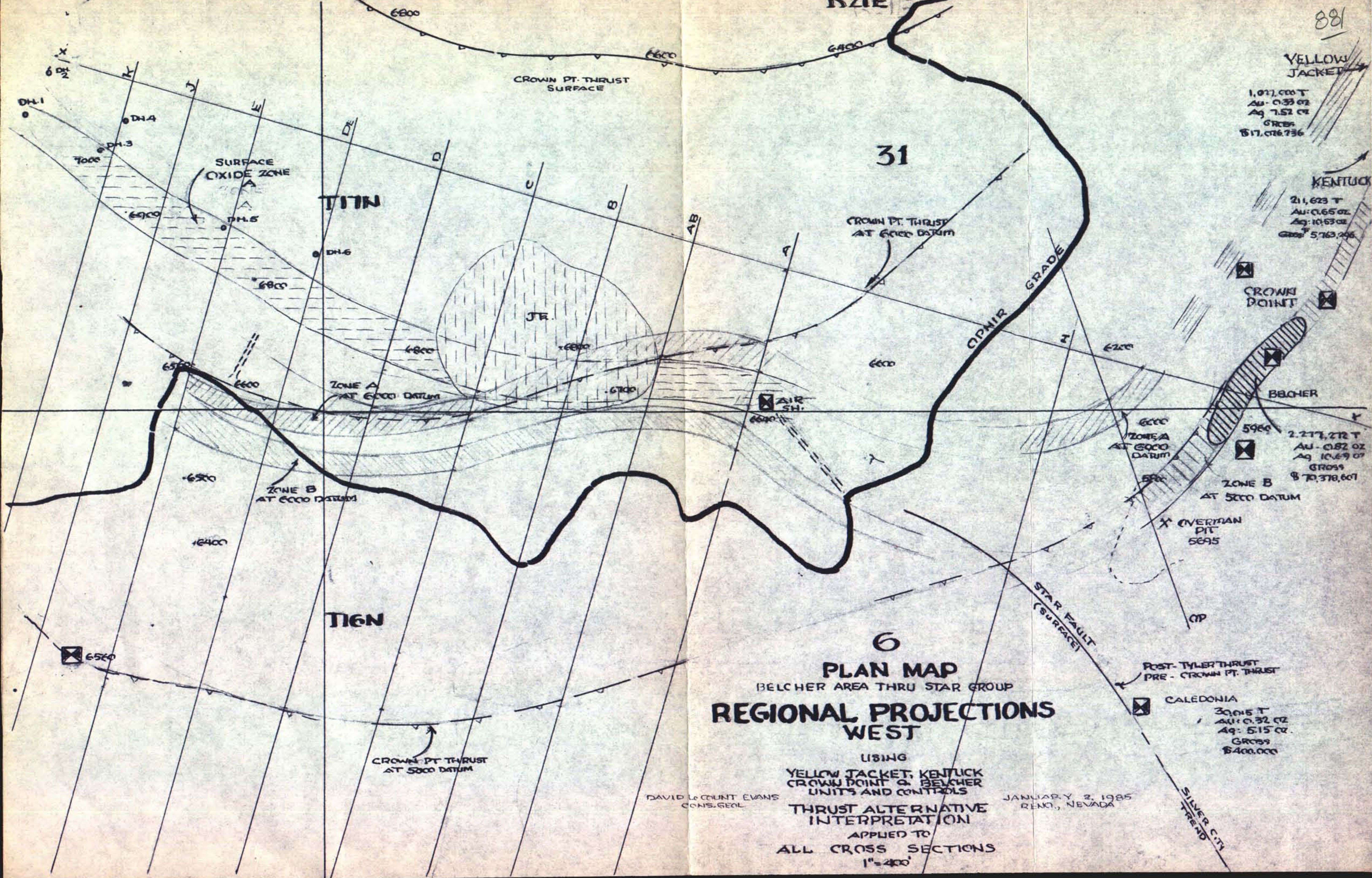


SECTION A-A'
STAR GROUP
H.N. = 400 FT.

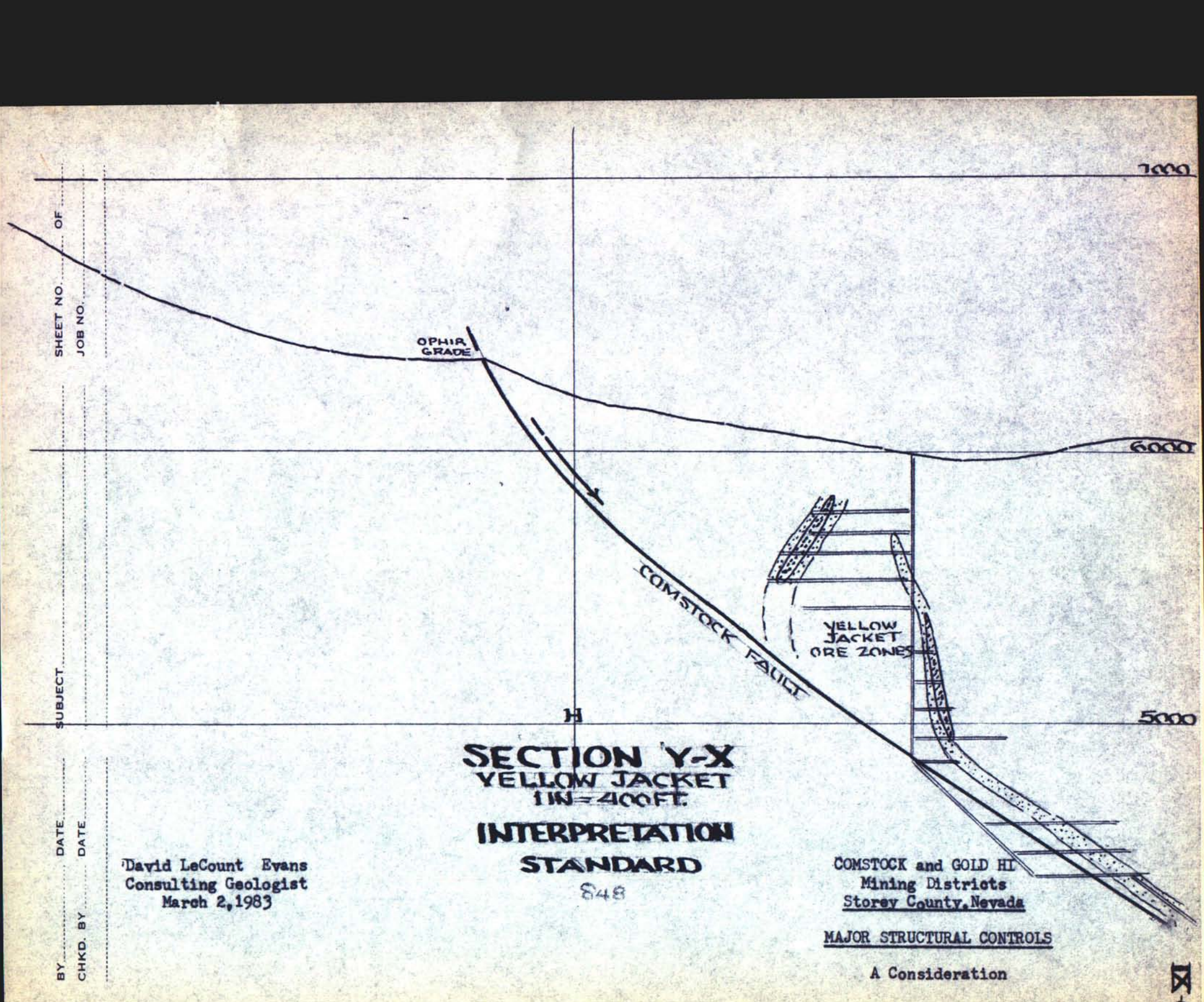
6/21/84
12/18/84

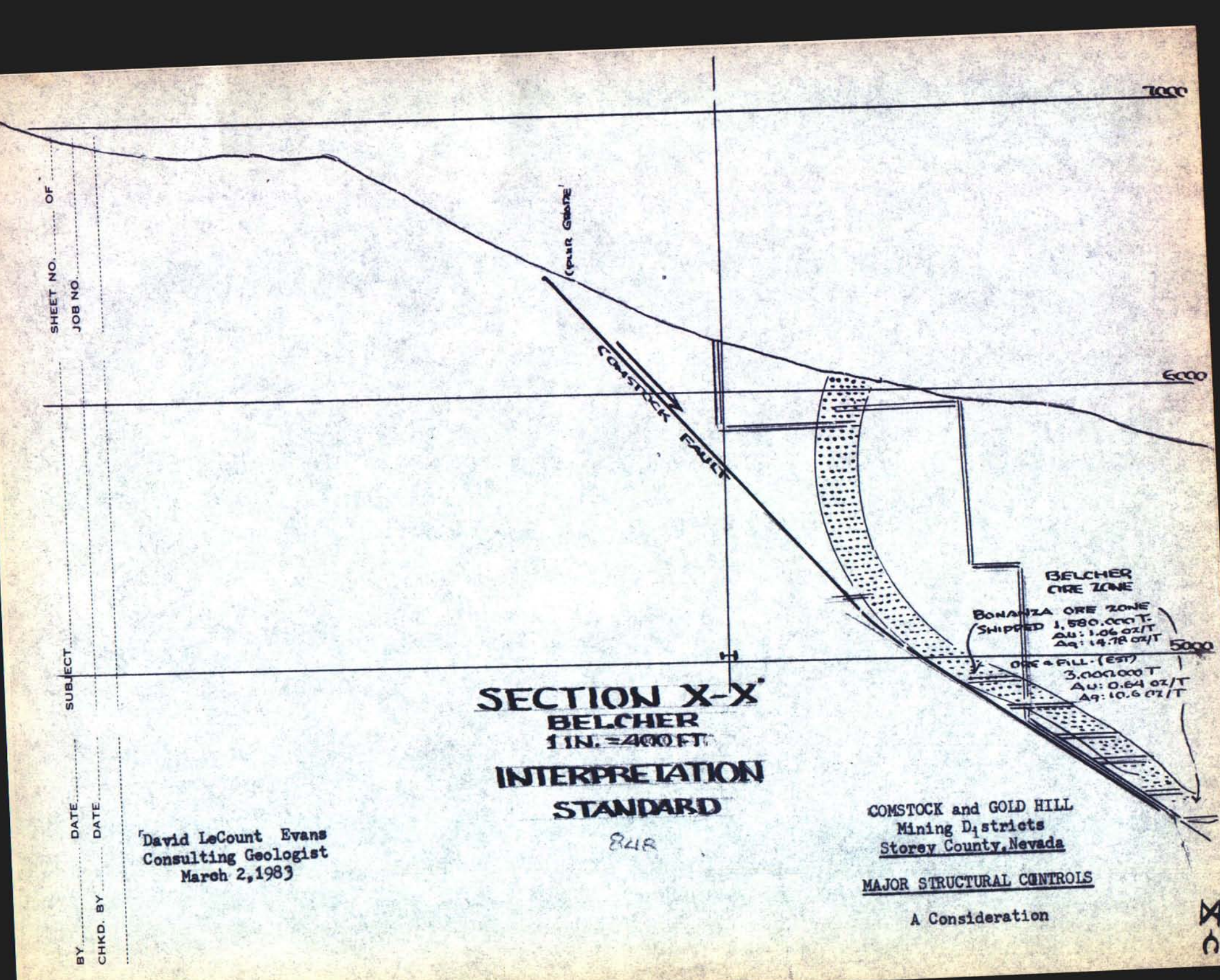
400 X 10. 4000
350 X 20 7000
11,000
+ 40 samps x 25 1,000
12,000

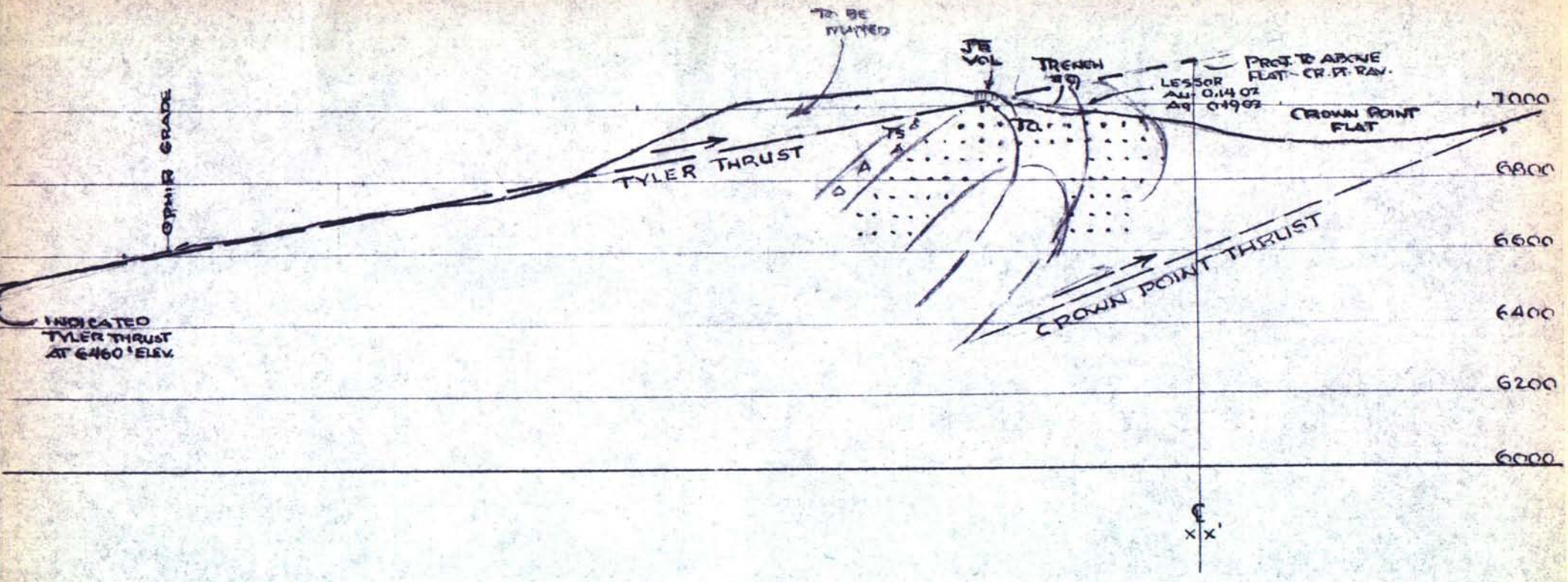
64,000



881
CROWN PT. THRUST SURFACE
31
TI7N
TI6N
SURFACE OXIDE ZONE A
DH.1
DH.3
DH.4
DH.5
DH.6
JE.
CROWN PT. THRUST AT 6000 DATUM
OPHIR GRADE
ZONE A AT 6000 DATUM
ZONE B AT 6000 DATUM
AIR SH.
ZONE A AT 6000 DATUM
ZONE B AT 5000 DATUM
OVERMAN PIT 5695
YELLOW JACKET
1,077,000 T
Au - 0.33 oz
Ag 7.52 oz
GROSS
$17,076,736
KENTUCK
21,623 T
Au: 0.65 oz
Ag: 10.63 oz
GROSS $ 5,763,296
CROWN POINT
BELCHER
2,277,272 T
Au - 0.82 oz
Ag 10.69 oz
GROSS
$ 70,378,607
STAR FAULT (SURFACE)
POST-TYLER THRUST
PRE- CROWN PT. THRUST
CALEDONIA
30,015 T
Au: 0.32 oz
Ag: 5.15 oz.
GROSS
$400,000
SILVER CITY TREND
CROWN PT THRUST AT 5000 DATUM
6
PLAN MAP
BELCHER AREA THRU STAR GROUP
REGIONAL PROJECTIONS
WEST
USING
YELLOW JACKET, KENTUCK
CROWN POINT & BELCHER
LIMITS AND CONTROLS
THRUST ALTERNATIVE
INTERPRETATION
APPLIED TO
ALL CROSS SECTIONS
1" = 400'
DAVID LeCOUNT EVANS
CONS. GEOL.
JANUARY 2, 1985
RENO, NEVADA


7000
6000
5000
OPHIR GRADE
COMSTOCK FAULT
YELLOW JACKET ORE ZONES
H
SECTION Y-X
YELLOW JACKET
1 IN = 400 FT.
INTERPRETATION
STANDARD
848
David LeCount Evans
Consulting Geologist
March 2, 1983
COMSTOCK and GOLD HI
Mining Districts
Storey County, Nevada
MAJOR STRUCTURAL CONTROLS
A Consideration
SHEET NO. OF
JOB NO.
SUBJECT
BY DATE
CHKD. BY DATE


7000
6000
5000
SHEET NO. OF
JOB NO
SUBJECT
DATE
BY
CHKD. BY
DATE
(PLAIR GRADE)
COMSTOCK FAULT
BELCHER ORE ZONE
BONANZA ORE ZONE
SHIPPED 1,580,000 T.
Au: 1.06 oz/T
Ag: 14.78 oz/T
ORE & FILL (EST)
3,000,000 T
Au: 0.64 oz/T
Ag: 10.6 oz/T
SECTION X-X'
BELCHER
1 IN. = 400 FT.
INTERPRETATION
STANDARD
RLR
David LeCount Evans
Consulting Geologist
March 2, 1983
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada
MAJOR STRUCTURAL CONTROLS
A Consideration



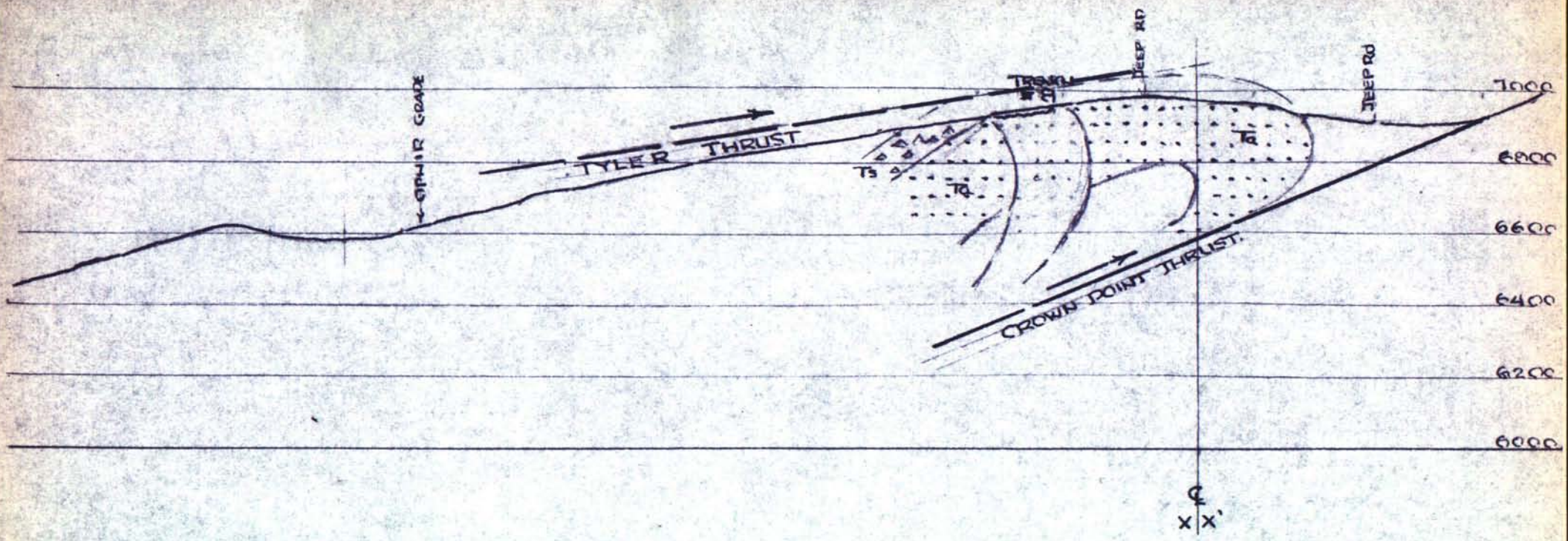
SECTION - L-L'

STAR GROUP

1 IN. = 400 FT.

DE

6/21/84

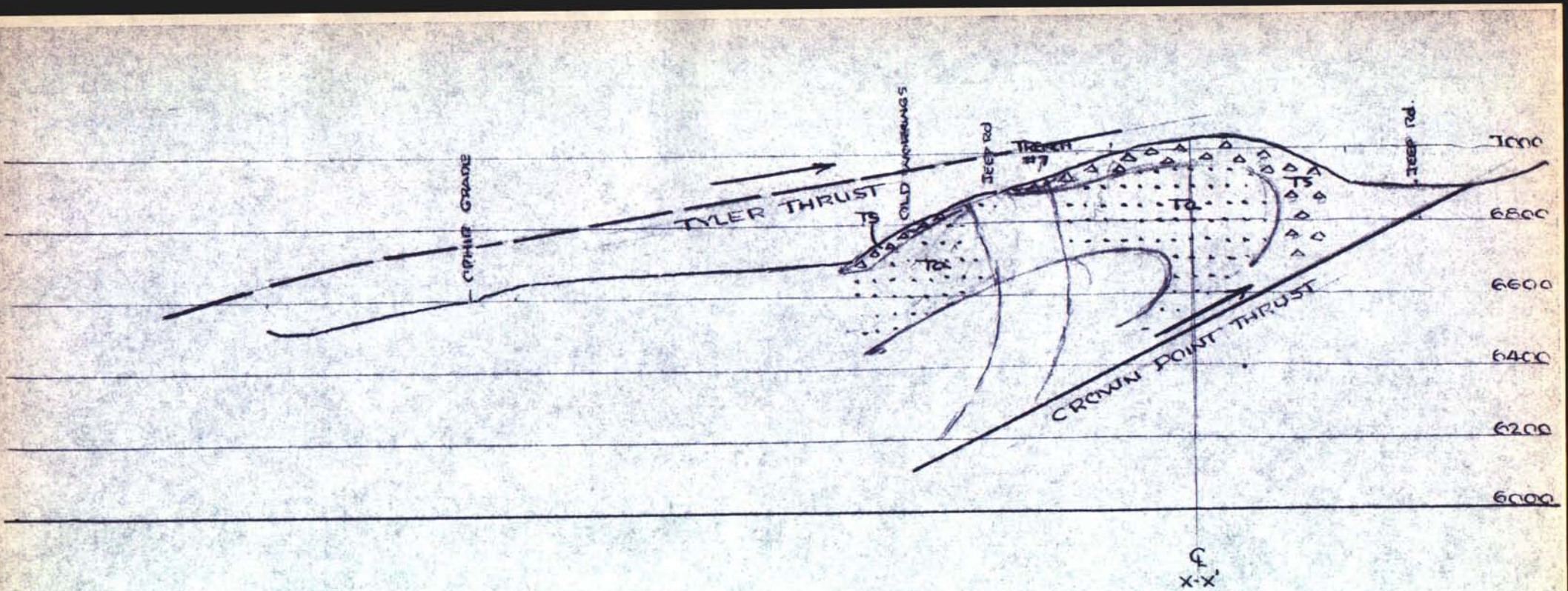


SECTION - K-K'

STAR GROUP

1 IN. = 400 FT.

DE 6/21/84



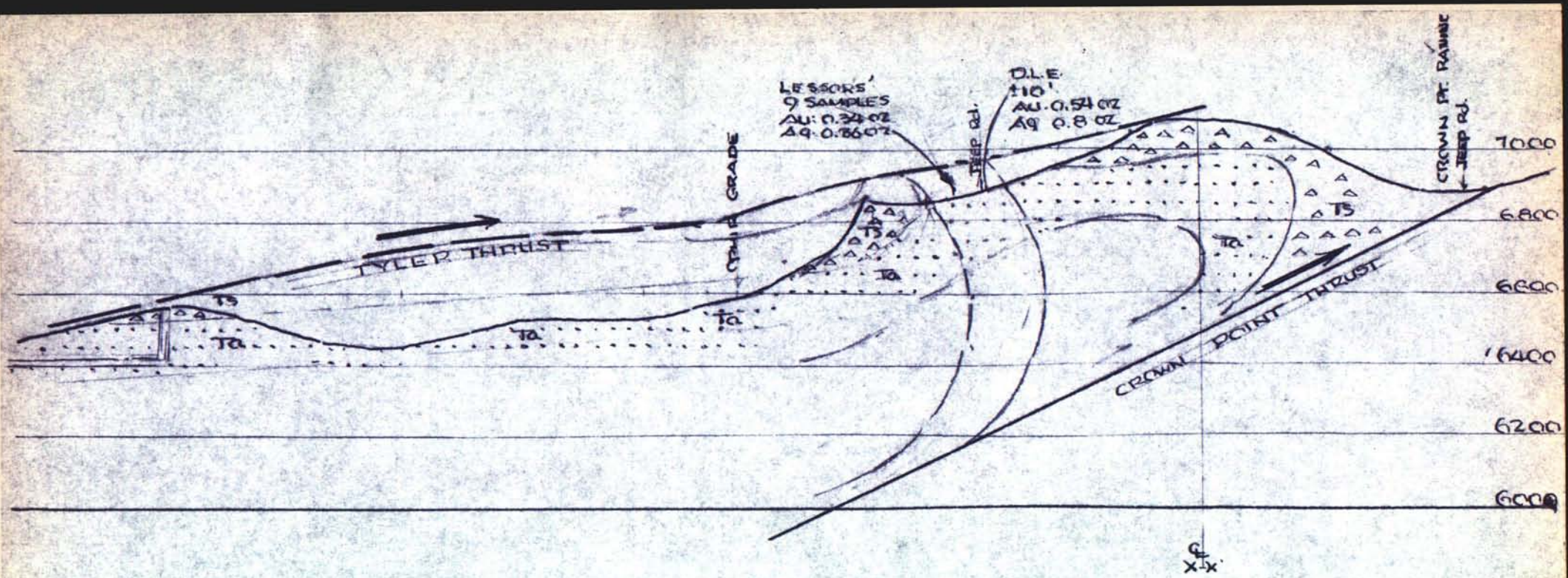
SECTION - J-J'

STAR GROUP

1 IN. = 400 FT.

6/21/84

J-J

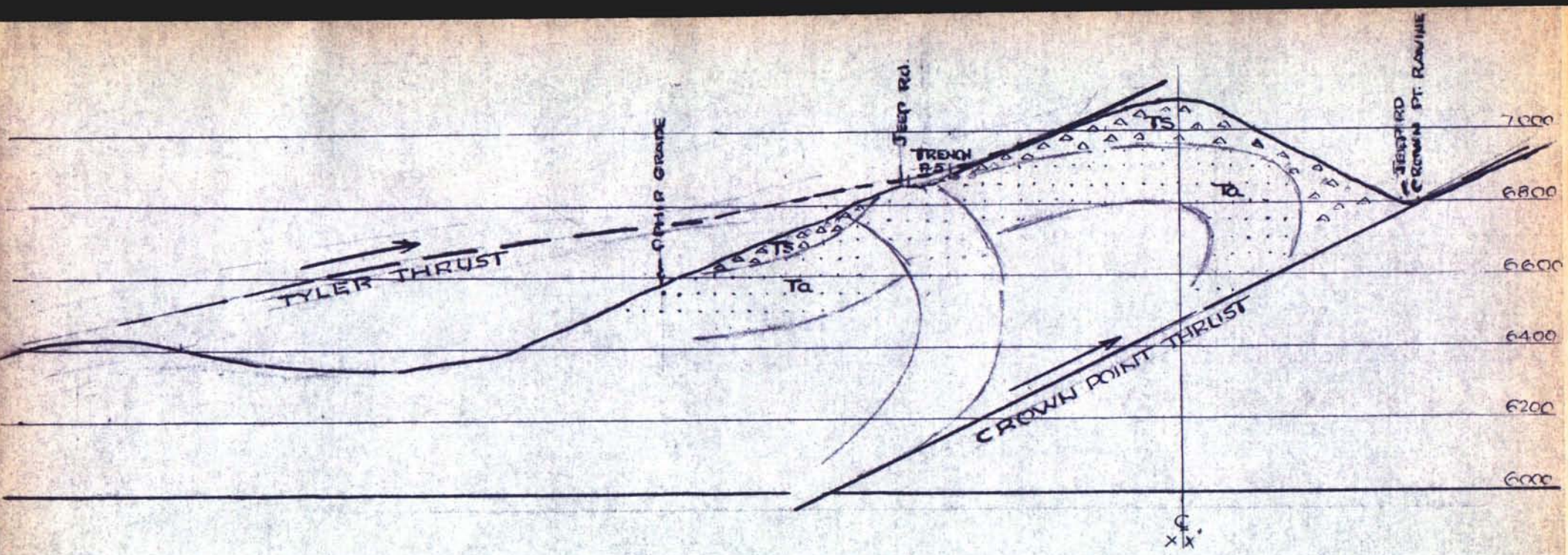


SECTION - E - E'

STAR GROUP

1 IN. = 400 FT.

6/21/84



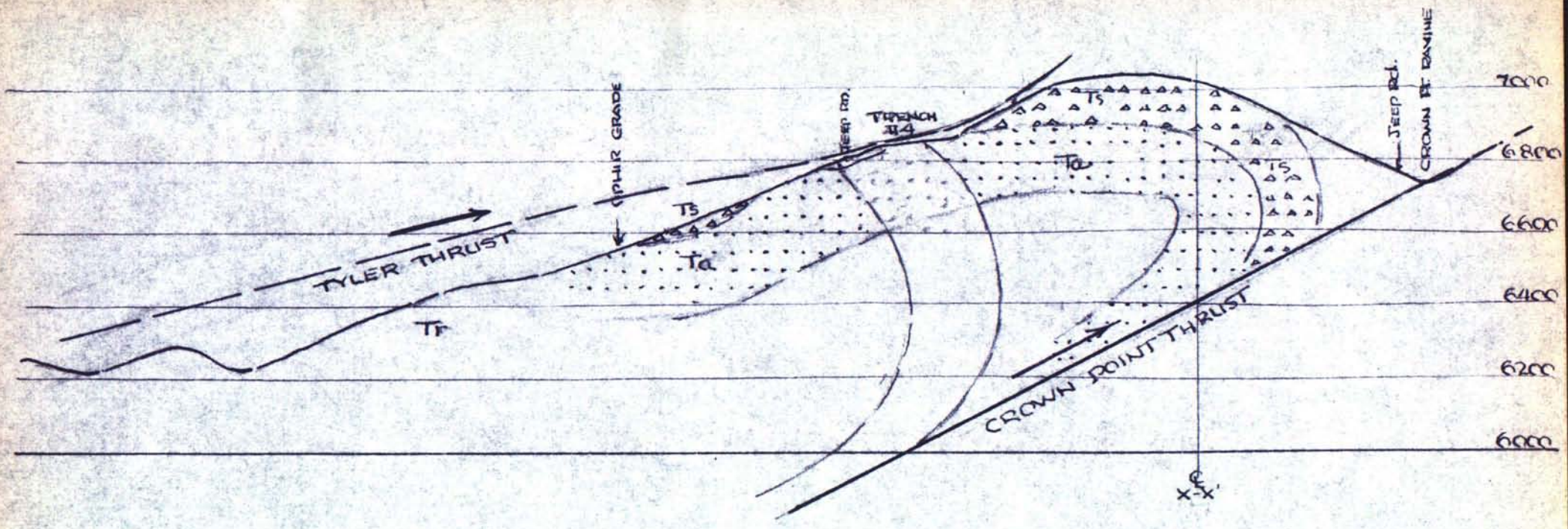
SECTION DE-DE'

STAR GROUP

1 IN = 400 FT.

TE

6/21/84



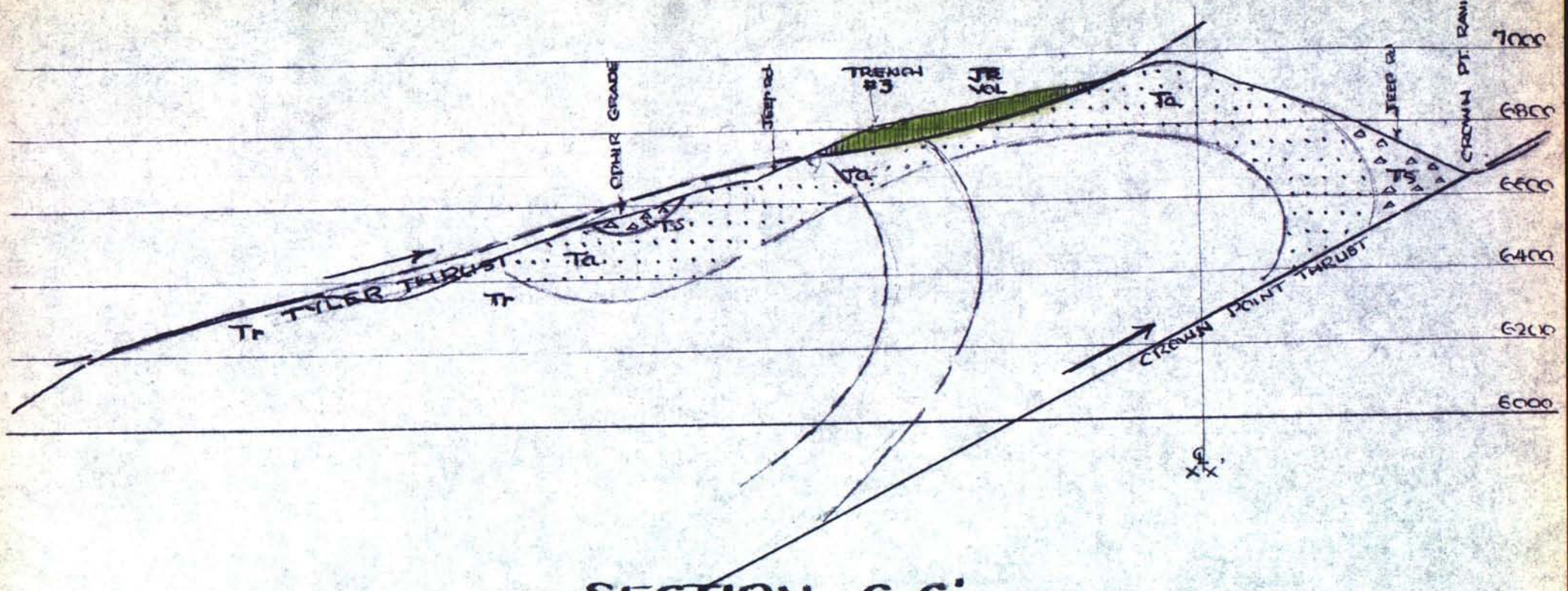
SECTION - D-D'

STAR GROUP

1 IN. = 400 FT.

RE

6/21/84

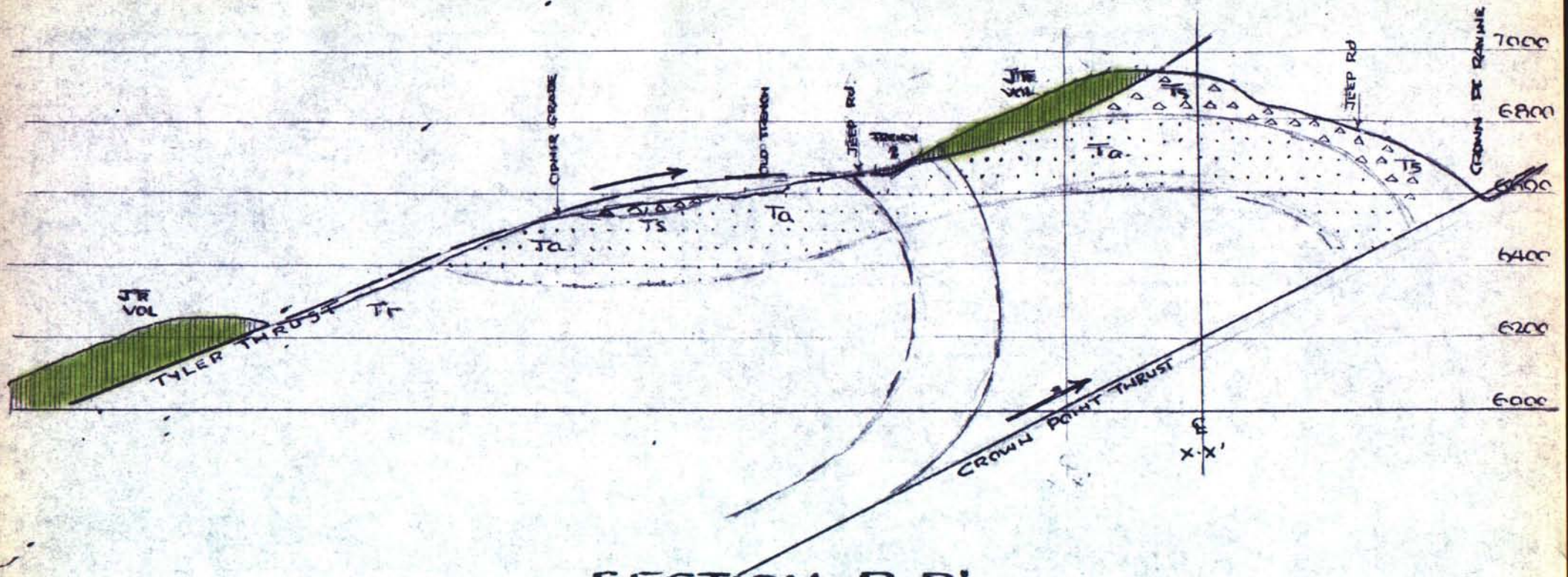


SECTION - C-C'

STAR GROUP

1 IN. = 400 FT.

TPE 6/21/84

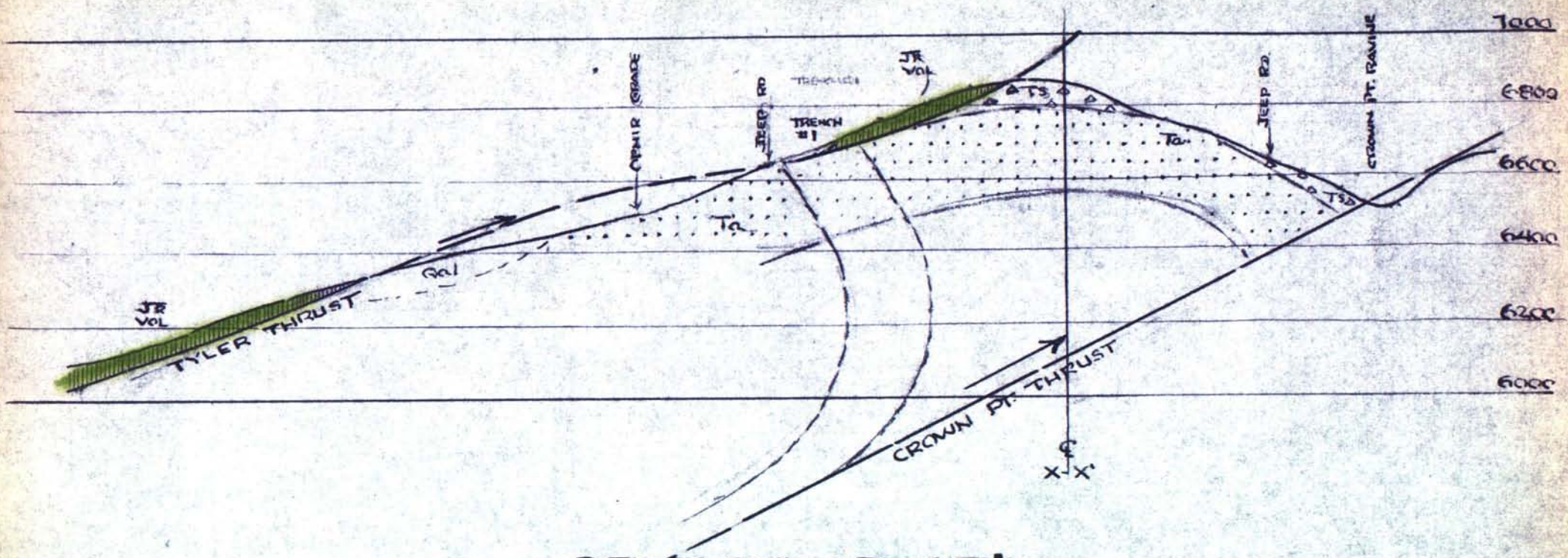


SECTION - B-B'

STAR GROUP

1 IN = 400 FT.

RE 6/21/84

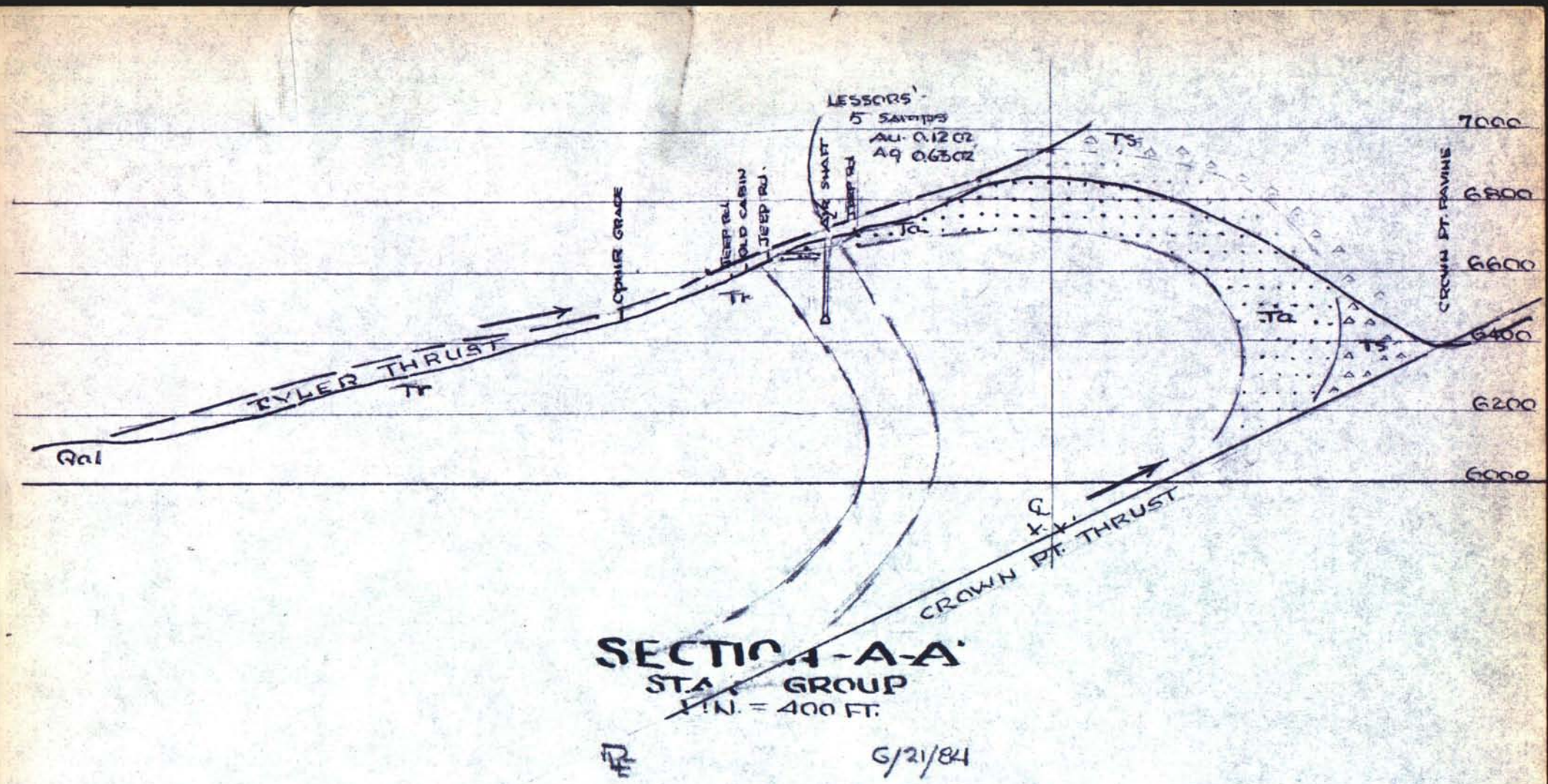


SECTION-AB-AB'

STAR GROUP

1 IN = 400 FT.

6/21/84

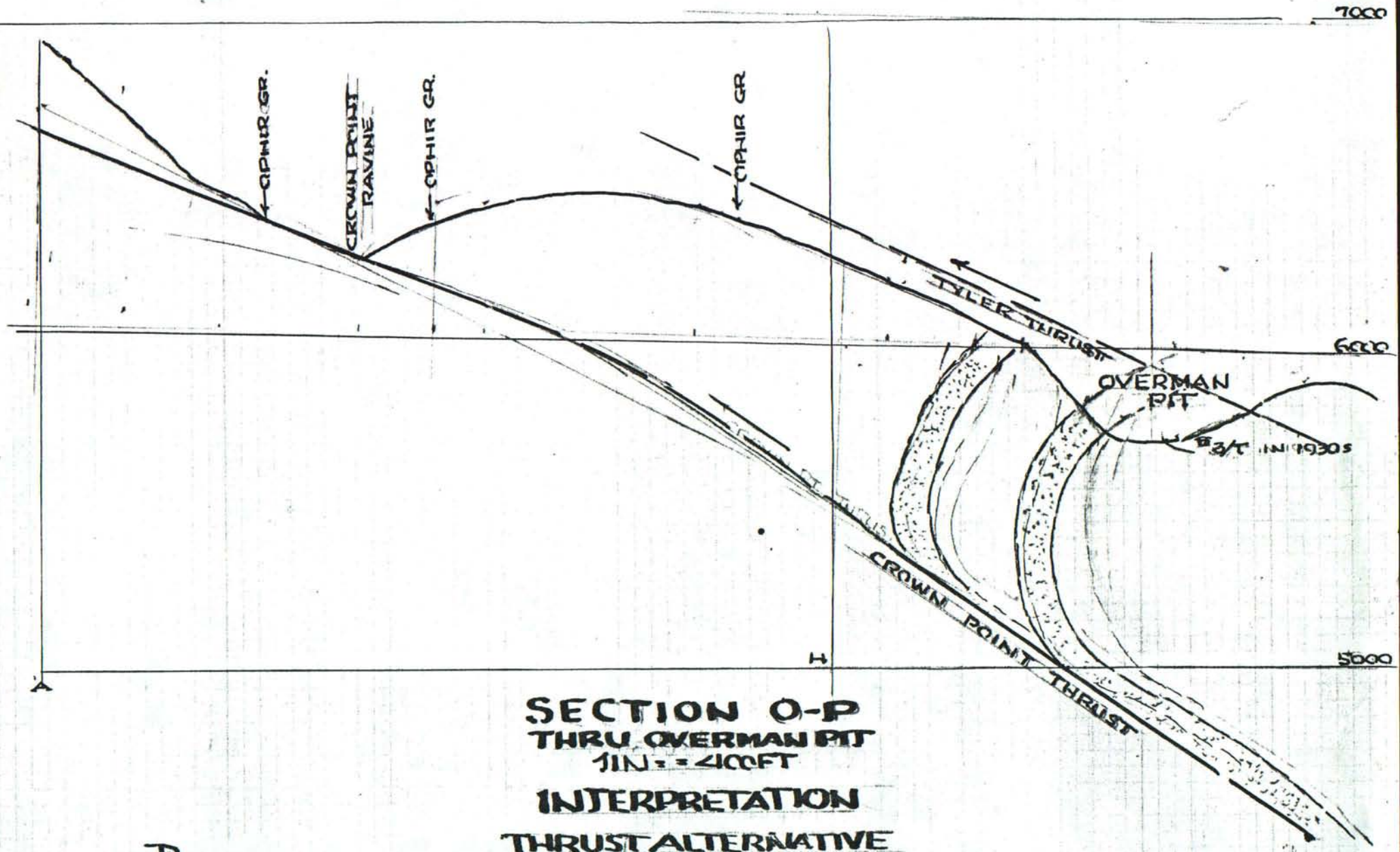


SECTION A-A'

STA GROUP

V.E. = 400 FT.

6/21/84



SECTION O-P
THRU OVERMAN PIT
1IN = 400FT

INTERPRETATION

THRUST ALTERNATIVE

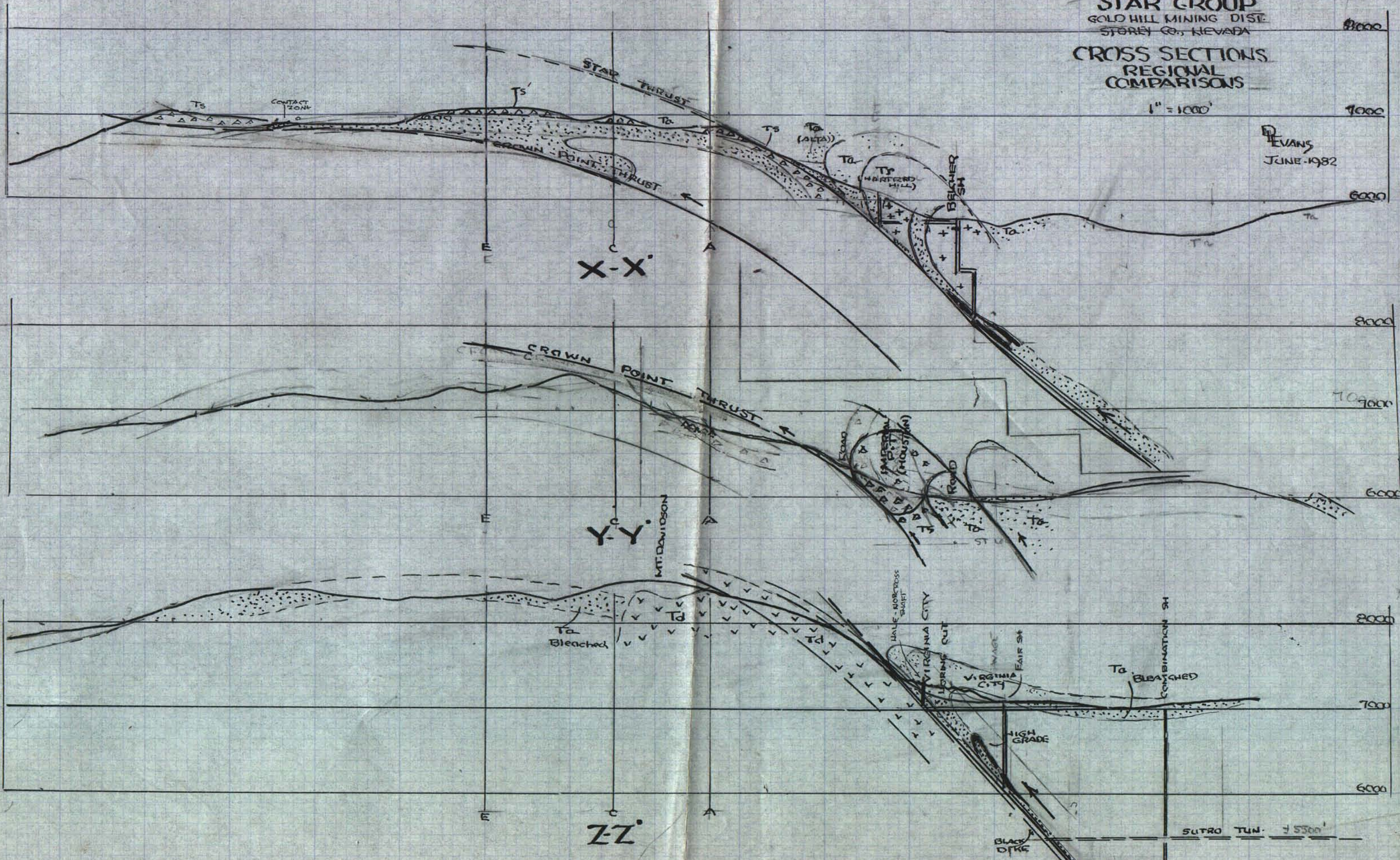
D EVANS
DEC. 1984
JAN. 25 1985

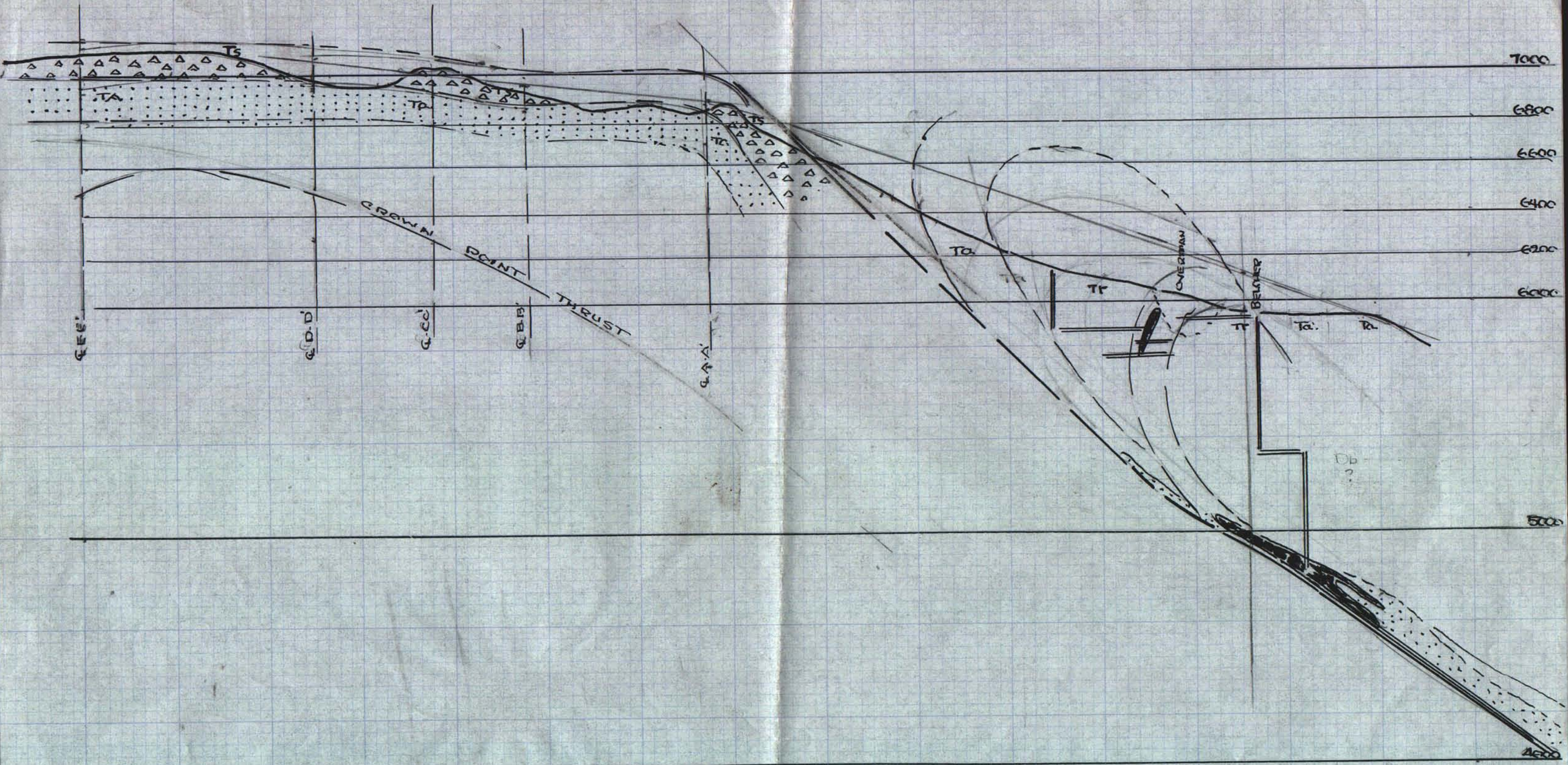
STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA

CROSS SECTIONS
REGIONAL
COMPARISONS

1" = 1000'

D L EVANS
JUNE-1982





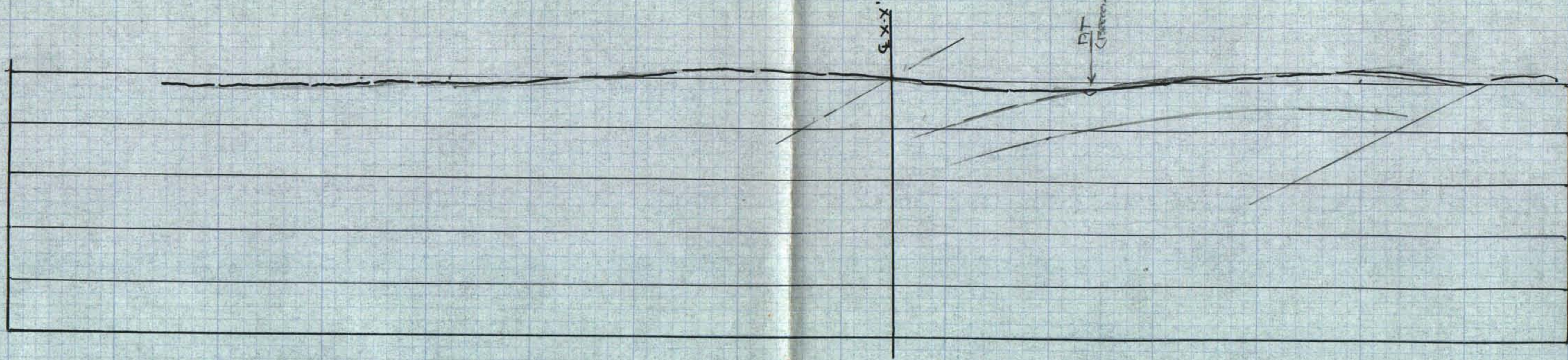
DAVID LeCOUNT EVANS
CONS. GEOL.
JULY - 1982.

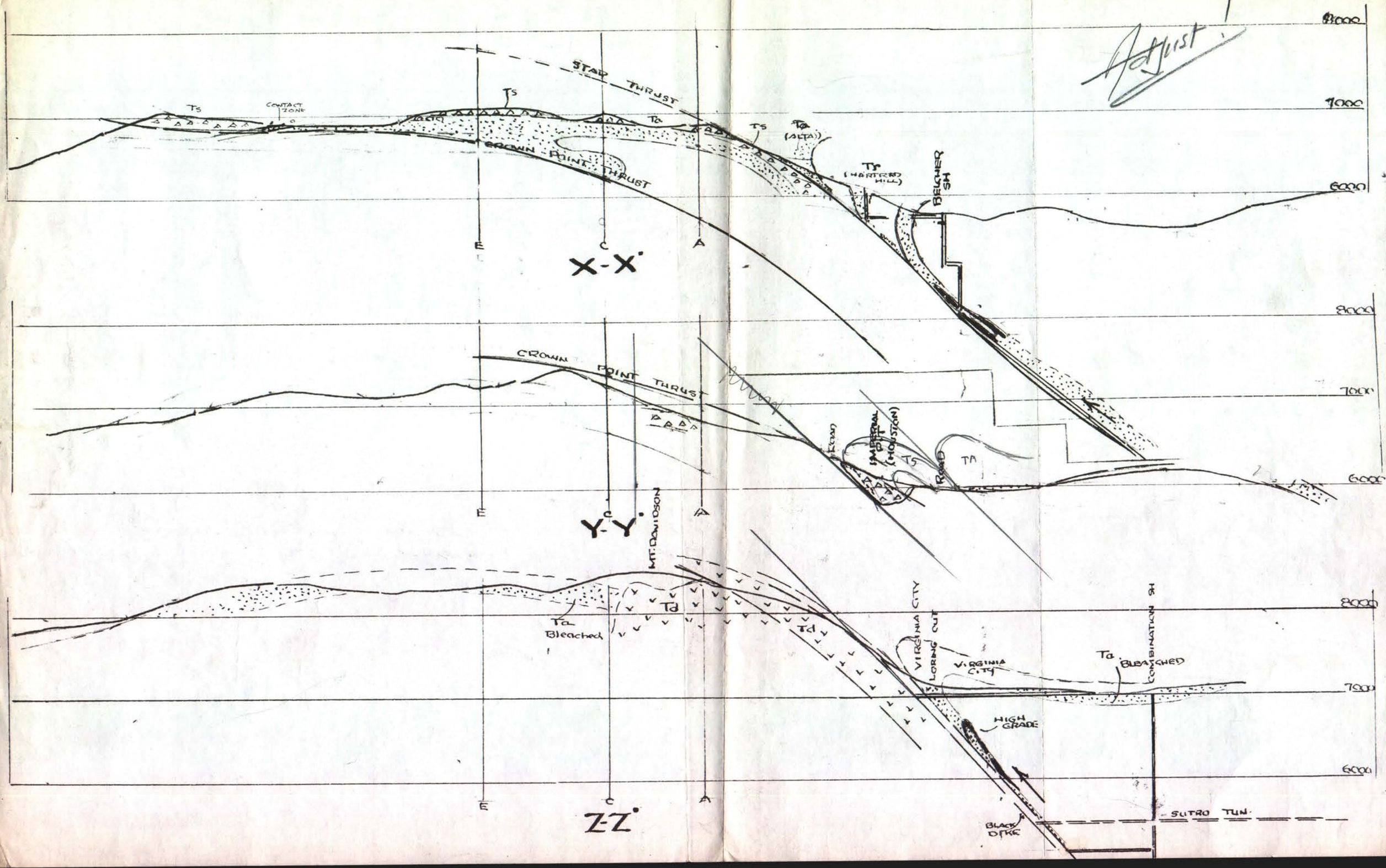
STAR GROUP

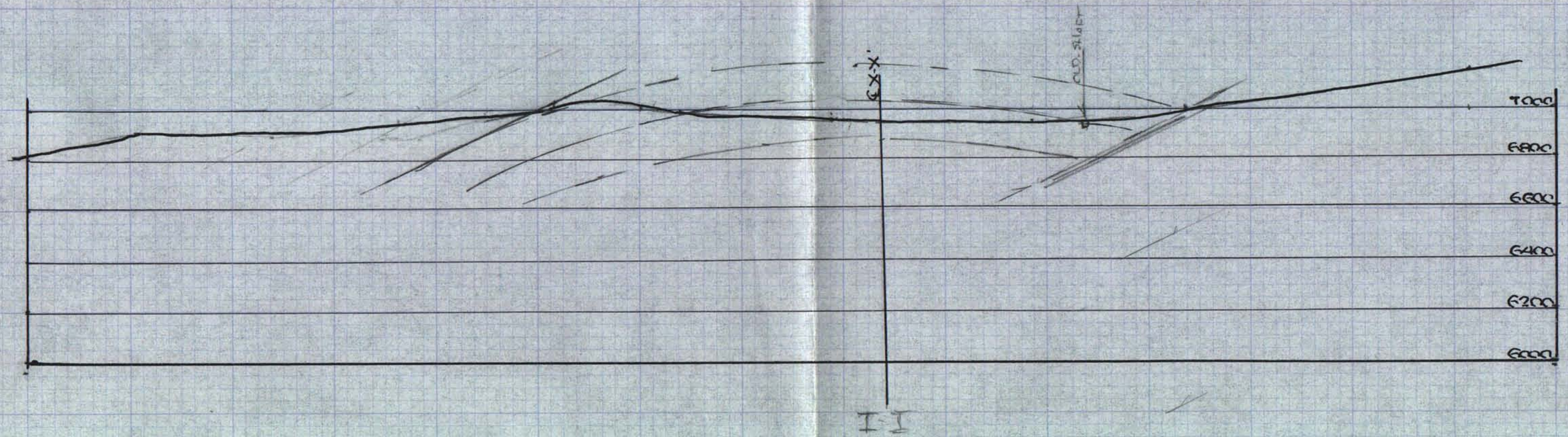
GOLD HILL MINING DIST.
STOREY CO., NEVADA

EXTENDED SECTION X-X'

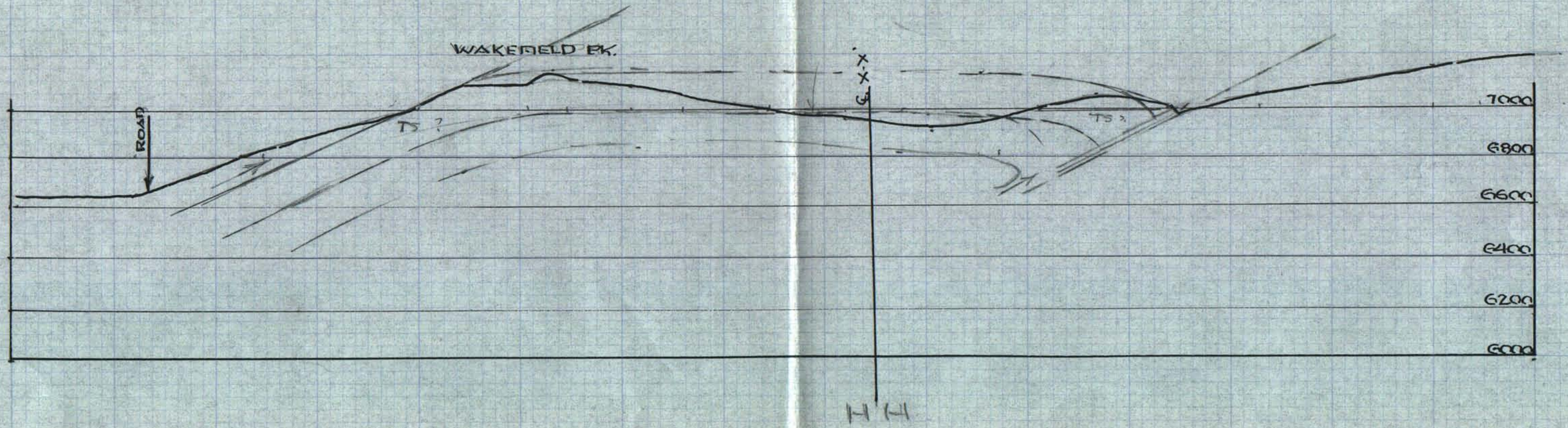
1 IN. = 400 FT.


℄ X-X'
DT

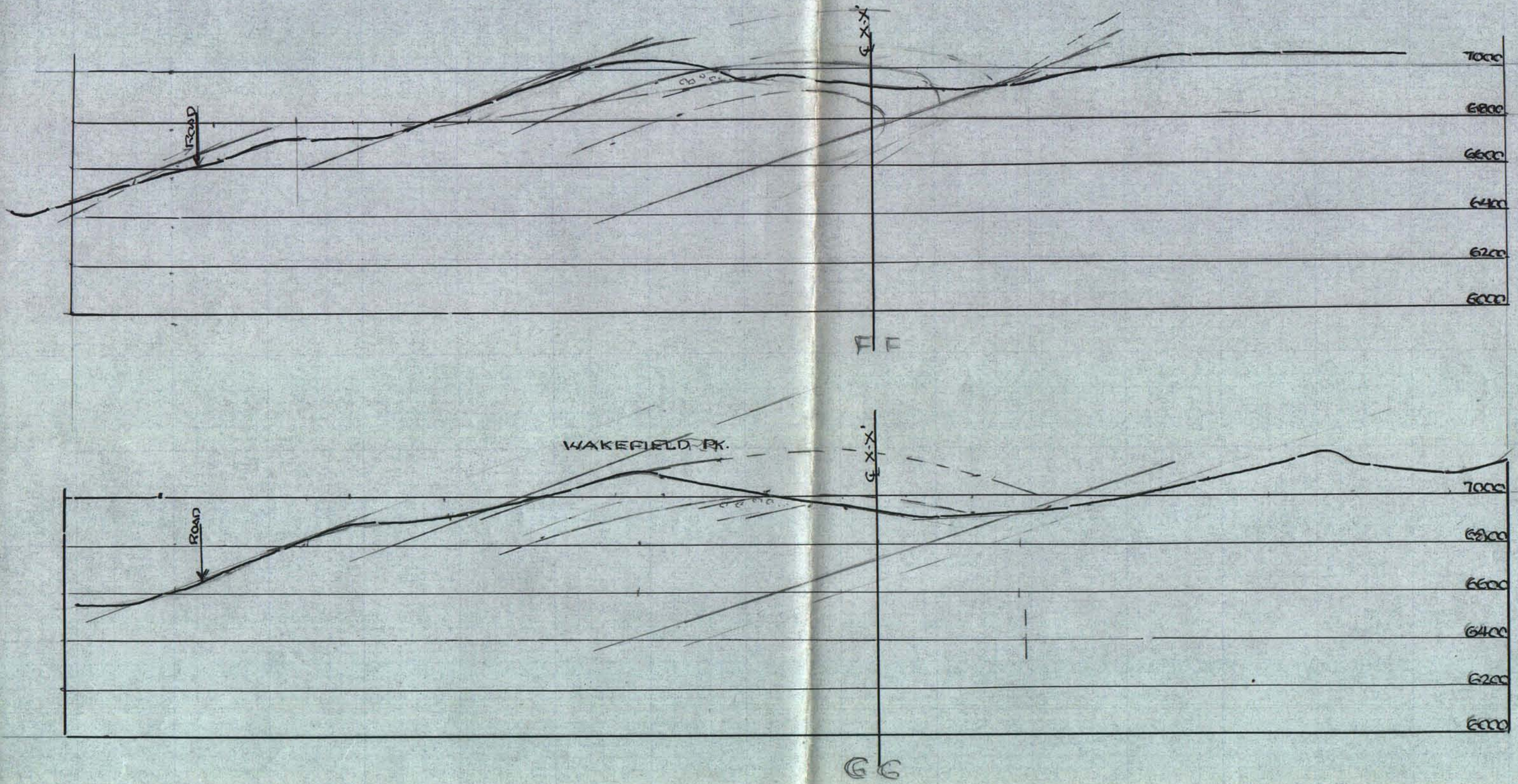

Adjust
STAR THRUST
Ts
CONTACT ZONE
Ta
CROWN POINT THRUST
Tr (HARTFORD HILL)
BELCHER SH
E
C
A
X-X'
8000
7000
6000
CROWN POINT THRUST
IMPERIAL PIT (HOUSTON)
ROAD
Y-Y'
MT. DAVIDSON
Td
Ta Bleached
VIRGINIA CITY
LORING CUT
Ta BLEACHED
COMBINATION SH
HIGH GRADE
SUTRO TUN.
BLACK DIKE
Z-Z'


G.X-X'
CLD. SHED
7000
6800
6600
6400
6200
6000

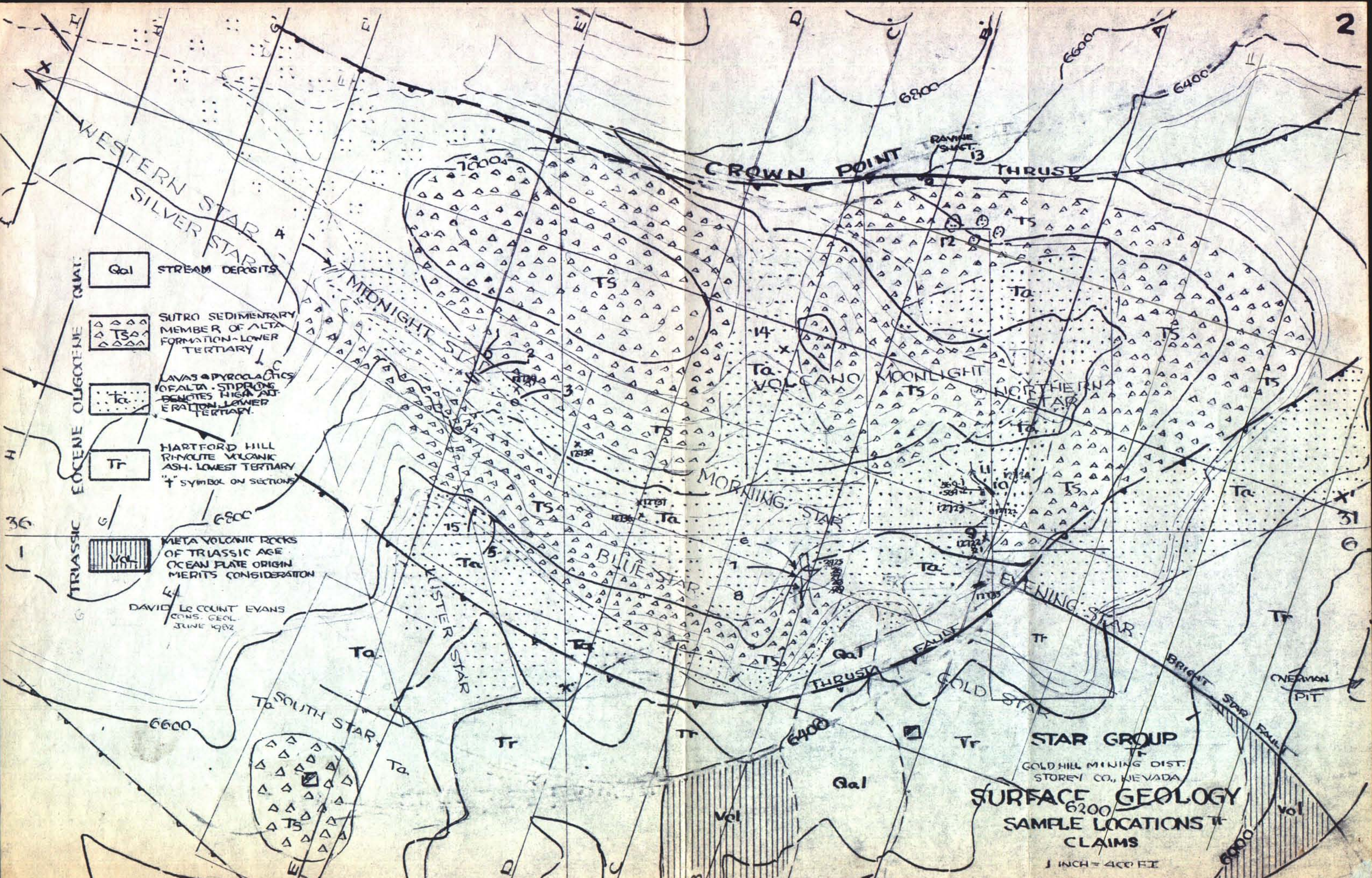
I - I


WAKEFIELD PK.
ROAD
TS ?
TS ?
G. X-X'
7000
6800
6600
6400
6200
6000

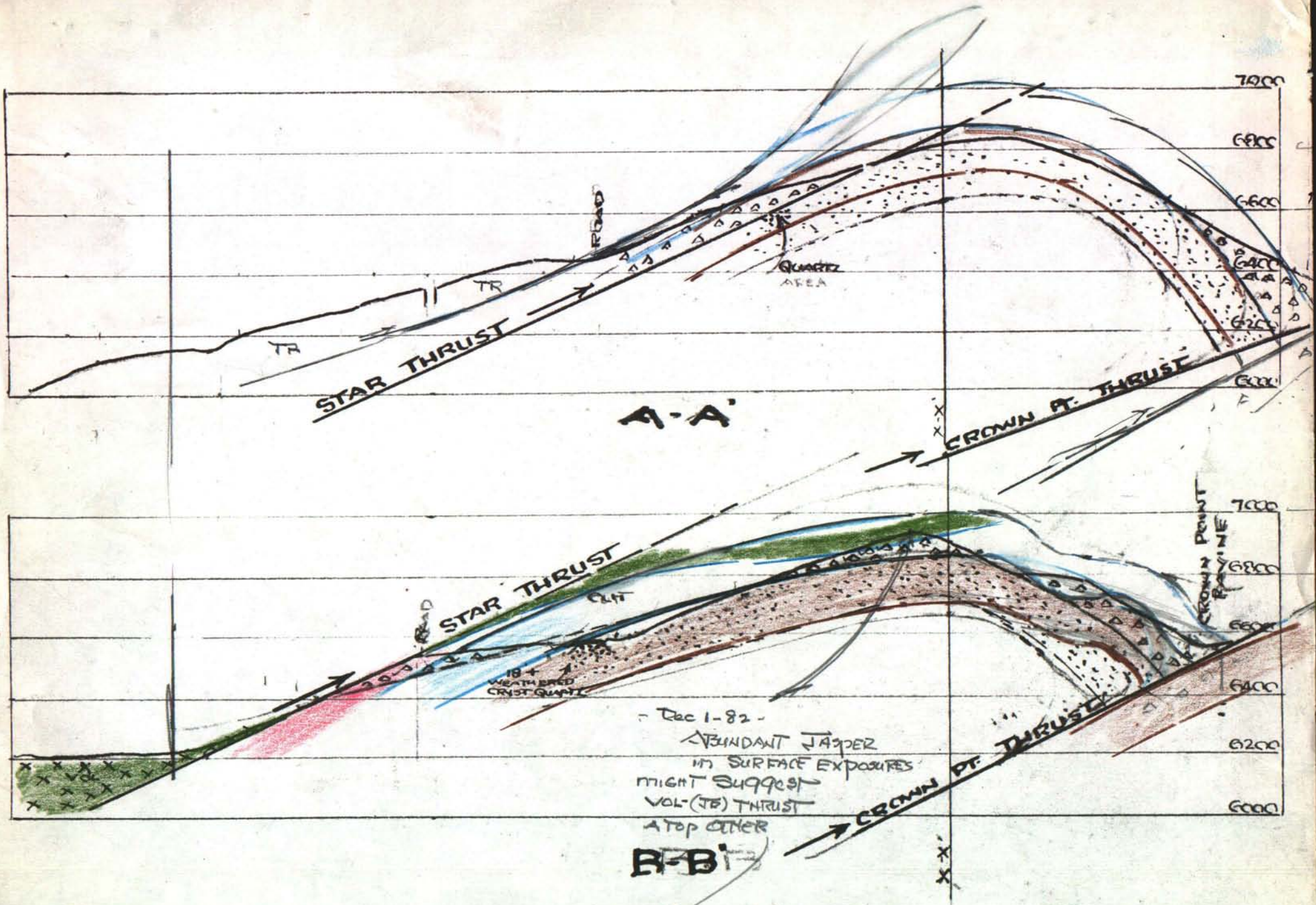
H H


ROAD
G X-X'
F
F
7000
6800
6600
6400
6200
6000

WAKEFIELD PK.
ROAD
G X-X'
G
G
7000
6800
6600
6400
6200
6000



CROWN POINT THRUST
RAYMIE SHAFT
WESTERN STAR
SILVER STAR
MIDNIGHT STAR
VOLCANO
MOONLIGHT
NORTHERN STAR
MORNING STAR
BLUE STAR
EVENING STAR
KUSTER STAR
SOUTH STAR
GOLD STAR
THRUST FAULT
BRIGHT STAR FAULT
OVERMAN PIT
QUAT.
EOCENE OLIGOCENE
TRIASSIC
Qal STREAM DEPOSITS
Ts SUTRO SEDIMENTARY MEMBER OF ALTA FORMATION - LOWER TERTIARY
Ta LAVAS & PYROCLASTICS OF ALTA - STIPPLING DENOTES HIGH ALTERATION. LOWER TERTIARY.
Tr HARTFORD HILL RHYOLITE VOLCANIC ASH. LOWEST TERTIARY "T" SYMBOL ON SECTIONS
Vol META VOLCANIC ROCKS OF TRIASSIC AGE OCEAN PLATE ORIGIN MERITS CONSIDERATION
DAVID LeCOUNT EVANS
CONS. GEOL.
JUNE 1982
STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA
SURFACE GEOLOGY
SAMPLE LOCATIONS
CLAIMS
1 INCH = 400 FT



- Dec 1-82 -

ABUNDANT JASPER IN SURFACE EXPOSURES MIGHT SUGGEST VOL-(JB) THRUST ATOP OTHER

Younger rocks should follow this idea - THRU

DENOTES - ALTERNATIVE

Samples
STAR GROUP

D.L.E. 1 — On Sect. E - BACK of BOLD - outcrop - of Sutro - (50' W. of Midnite Star ±300 58' N)
AT - overcapping Sutro - at contact with altered ALTA - ±6' vert cuts Soft ground mass - & broken Sutro

D.L.E. #2 — Down slope from #1 - 100' in SW part 1½' V. cuts - in Alta (alt) - with some penetration - of Sutro outcrop!

D.L.E. #3 — Cut - ±400' - E. of #2 - Soft oxidized Alta - right at contact with capping Sutro.

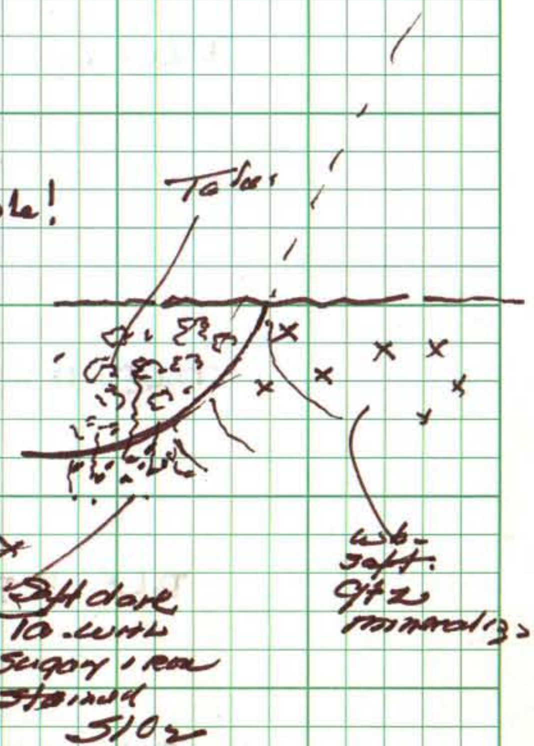
D.L.E. #4. — Road cut - west of above in saddle going out - 700' fr. #1 & #2. — Volc. brecced - shattered - altered brown FeO - w/ magnetite - some fine gray mat ← possibly base of Sutro

DLE - #5 — In - massive Sutro Trend down from #1 - 2 + 3 — Roadside (200' E - of Ballard Tun — Soft - gougy - wh - yellow & frags SiO₂ - etc. Ballard Tun - in solid

#6 - In LONG CUT. Center of Prop -
20' - Sample in Soft - Se
oxidized alter - form. dome
Sl. mcling ~

Then + 50' - of Surface rubble!

S#7 - 8' - of EXPOSED - Form.
Same vert. cuts -
Dominantly - in loose -
white - Quartz
with . rotten - alter.



- S #8. - - 5 feet at base -
as - described

S#9 ~ TUNNEL McKENZIE
CABIN - PORTAL
IN - LAMINATED - ALTA
Soft. + part. oxidized
- MIXTURE ACROSS
12'

#10 - McKENZIE TREND
up. HILL FROM 9
EAST side of cut - 15'
Rotten. Feo + scatt
SiO2

Nevada Assay Office

675 LESTER AVENUE

Reno, Nevada

June 11, 1982

FRANK W. JONES
Assayer-Chemist

Phone
329-4080

ASSAY CERTIFICATE FOR: D. L. Evans, Reno,Nev.

NO.	SAMPLE	GOLD OZ./TON	SILVER OZ./TON	%	%	%	%	%
	#1	Tr	0.1					
	2	0.54	0.8					
	3	Tr	0.1					
	4	0.01	0.1					
	5	0.01	0.1					
	6	Tr	0.1					
	7	0.01	0.1					
	8	0.01	0.1					
	8	Tr	0.1					
	9	Tr	0.1					
	10	0.02	0.1					
	11	Tr	0.1					
	12	0.01	0.1					
	13	Tr	0.1					
	14	Tr	0.1					
	15	0.12	0.6					

D.L.F #11 — Same Trench as #10 -
35' of Broken bottom
Alta - Heavy oxide
Scatt. SiO_2 - West of #10.

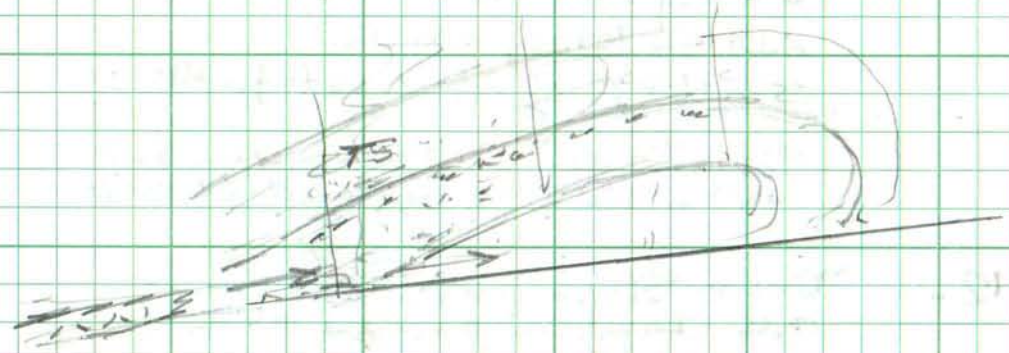
Same "stuff" continues another
15' - then goes under talus.

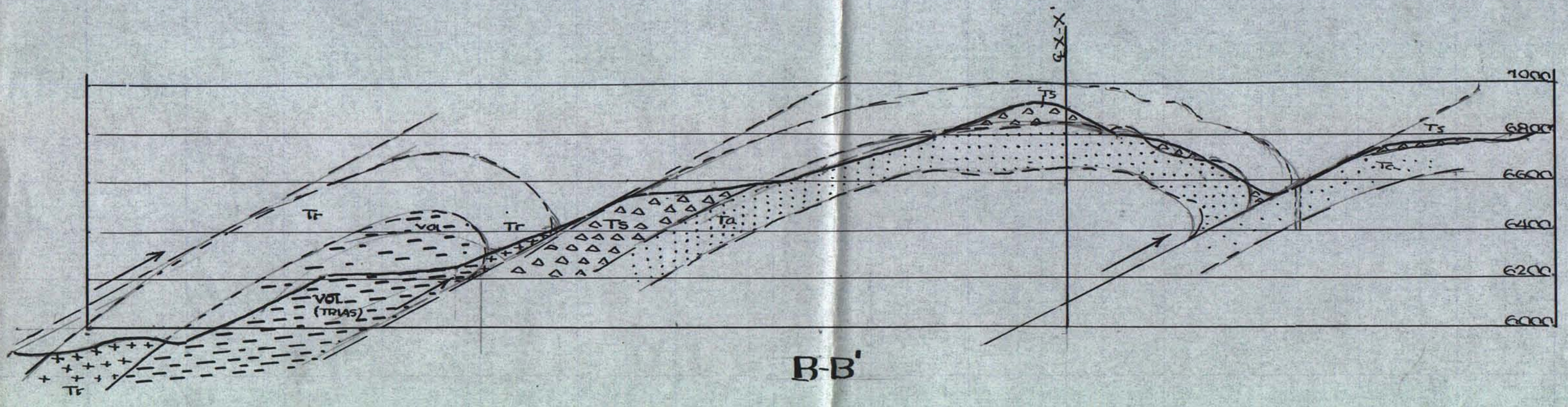
12 - Down slope into canyon -
old dump in oxidized alta
laced with qtz Grab samp

13. Dump at old shaft - ±150' dp.
grab - from - oxidized & SiO_2 Alta

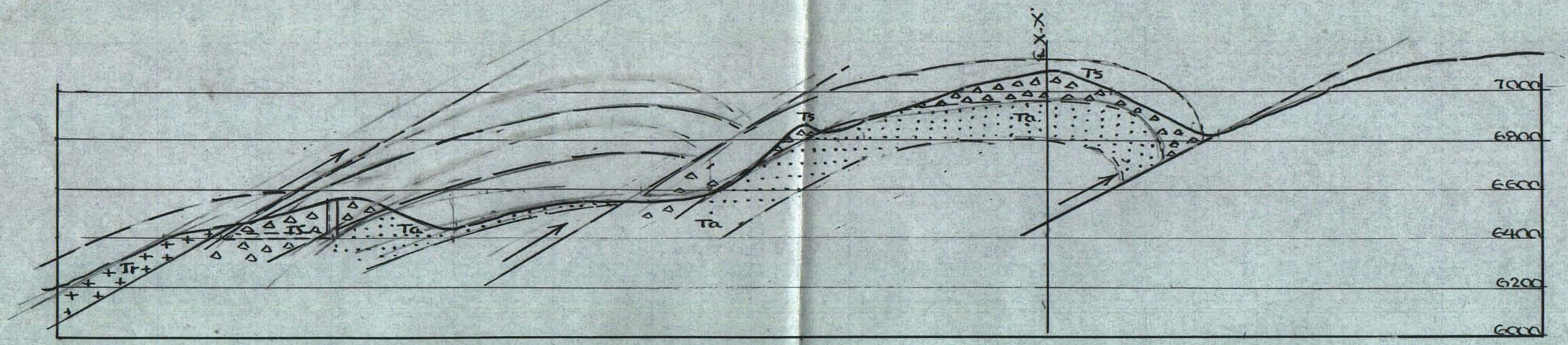
14. In Saddle (see map) - Overburden
dozed off - exposing solid - alta
laced with SiO_2 FeO - gouge
etc - Cut from 3 - shallow
holes - into solid

15 — 100' E of Ballard Tun





B-B'



E-E'

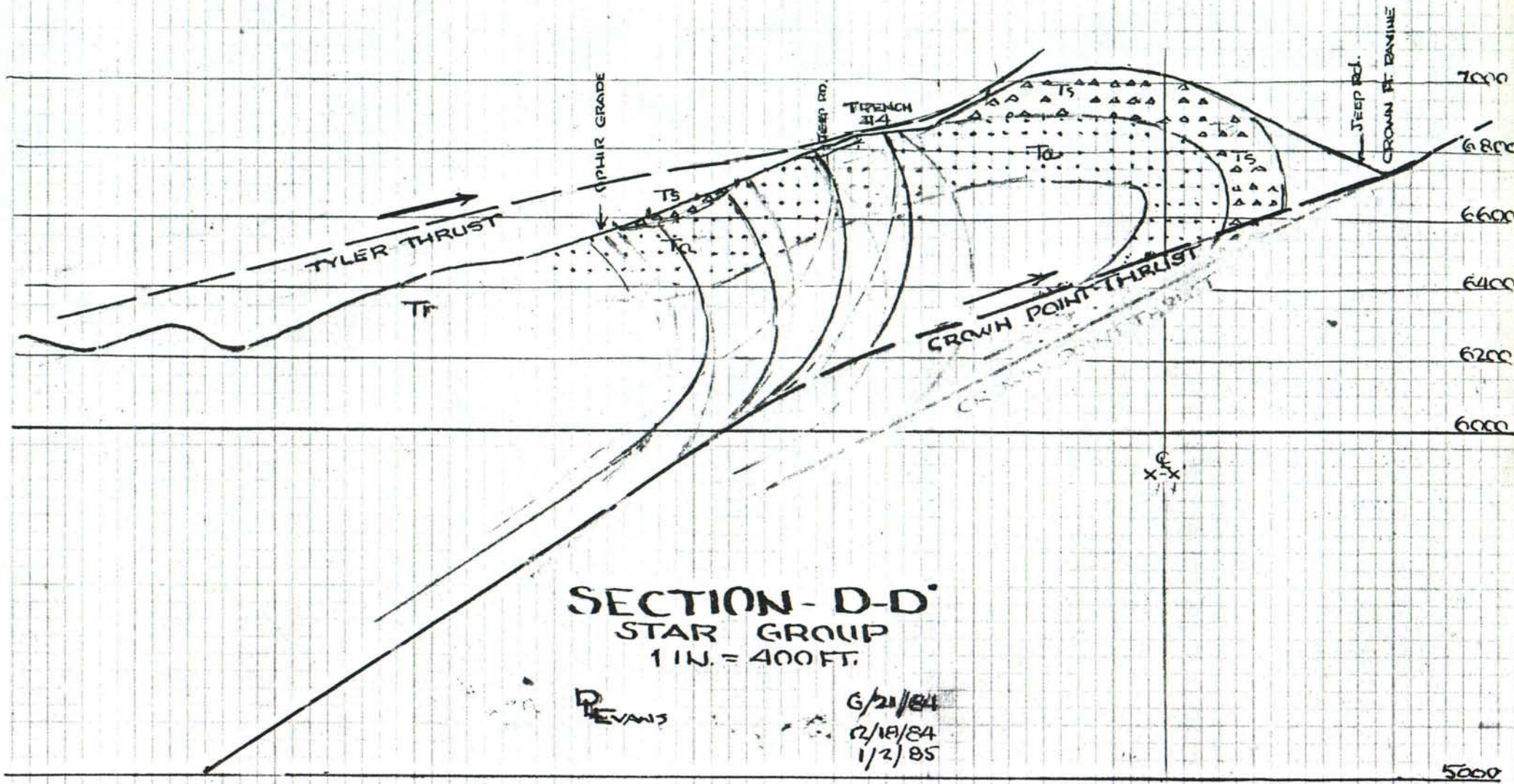
DAVID LeCOUNT EVANS
CONS. GEOL
JULY-1982

STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

EXTENDED SECTIONS

1 IN. = 400 FT.



SECTION - D-D'

STAR GROUP

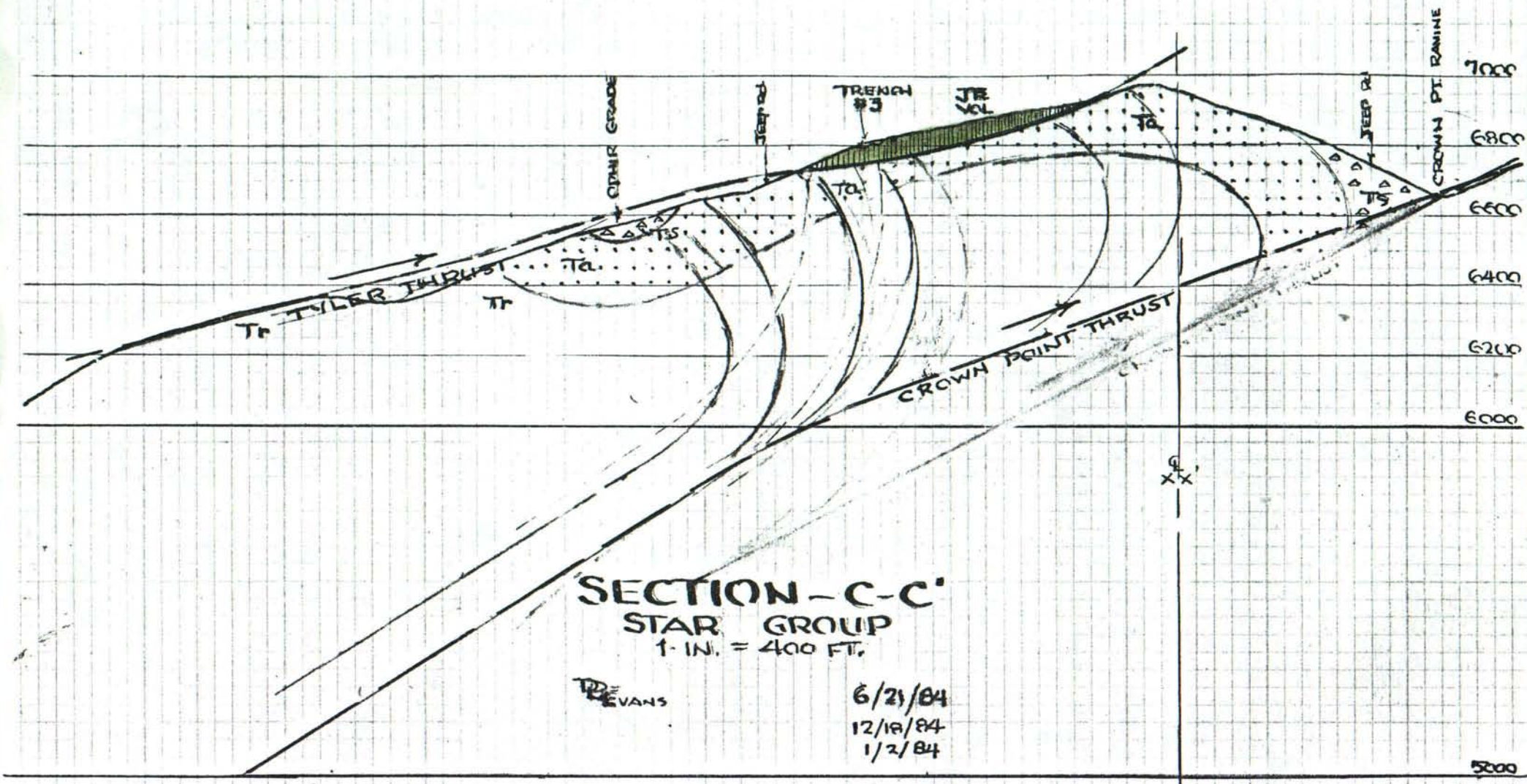
1 IN. = 400 FT.

D. EVANS

6/21/84

12/18/84

1/2/85



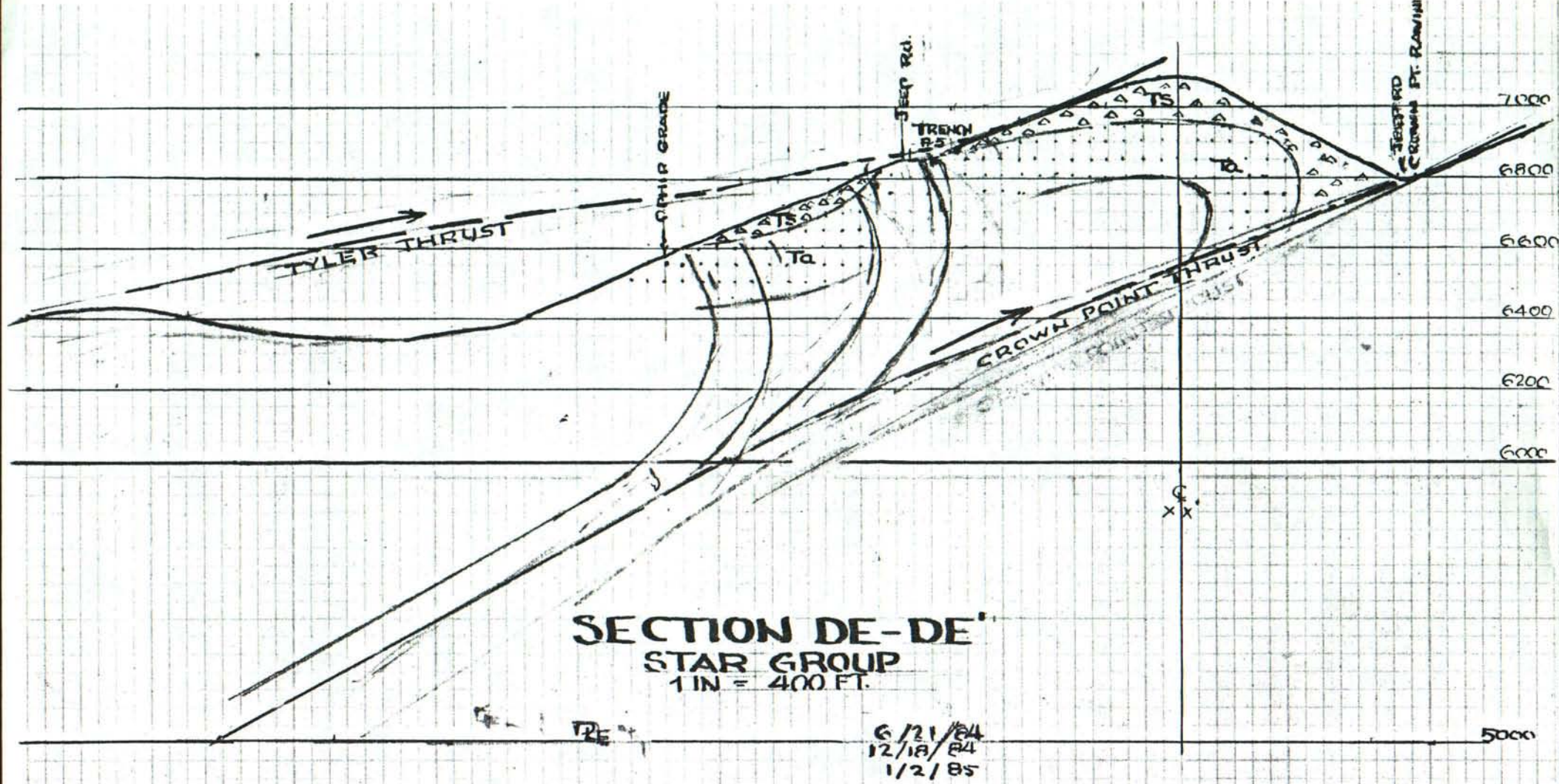
SECTION - C-C'

STAR GROUP

1 IN. = 400 FT.

T.D. EVANS

6/21/84
12/18/84
1/2/84



SECTION DE-DE'

STAR GROUP

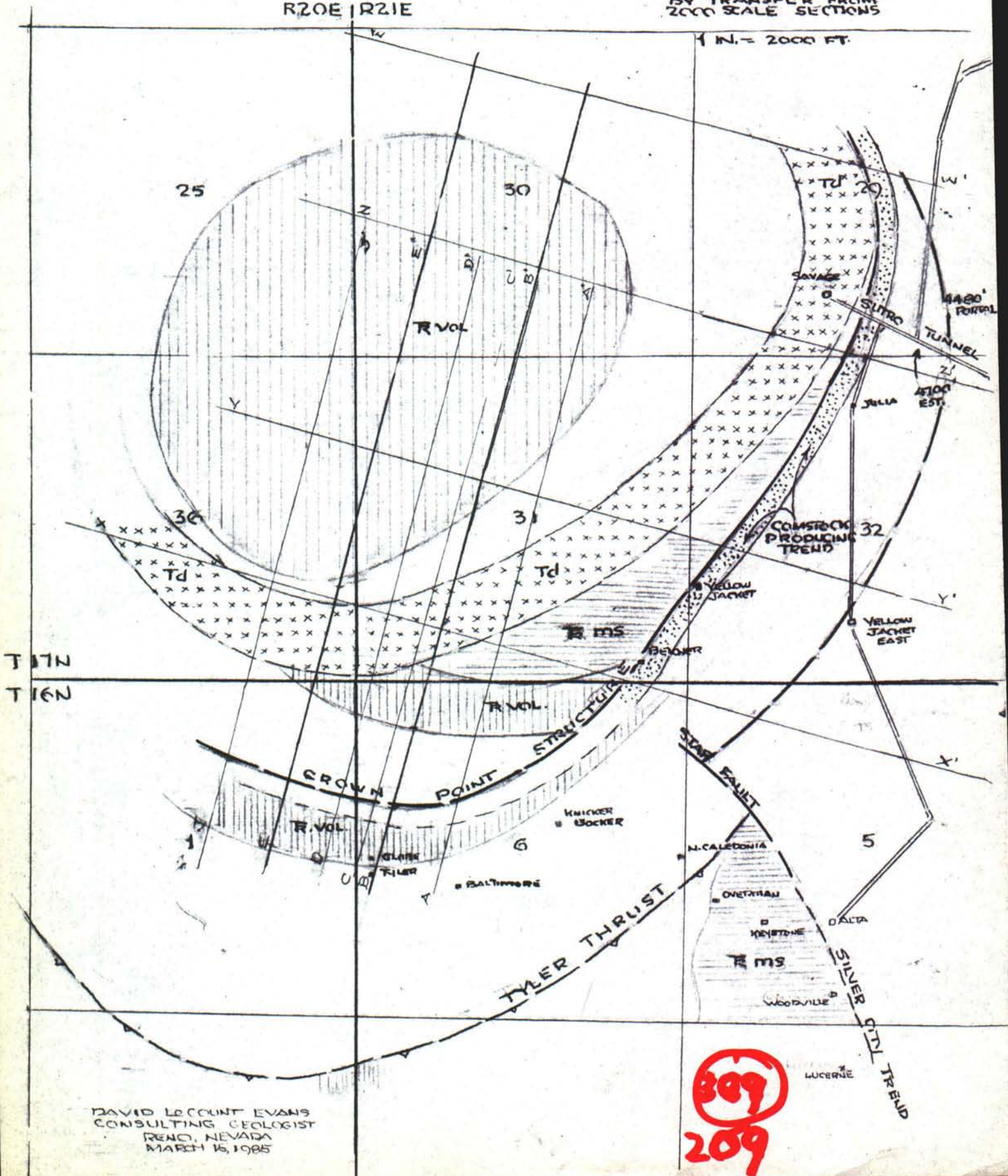
1 IN = 400 FT.

6/21/84
12/18/84
1/2/85

COMSTOCK DISTRICT
STOREY CO., NEVADA

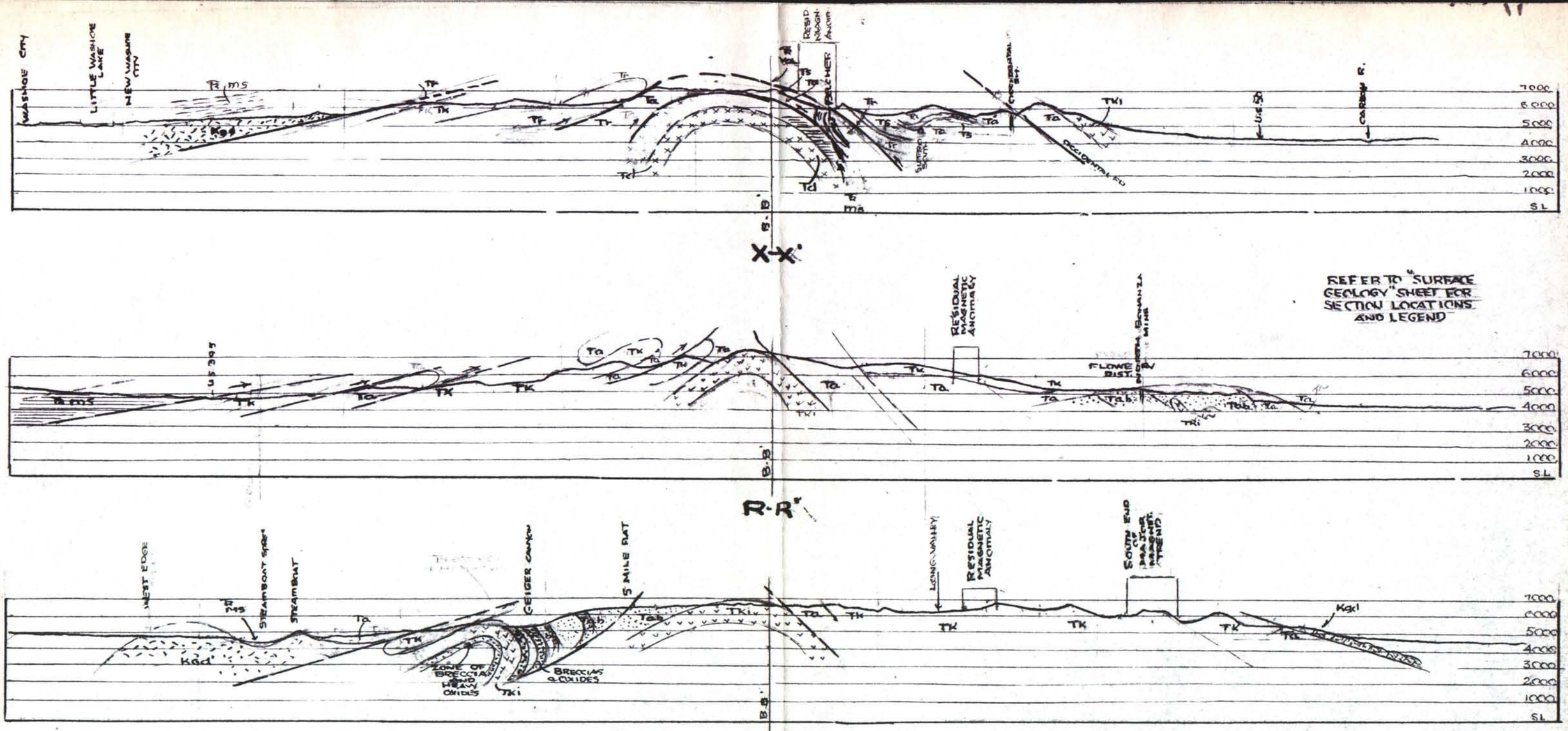
SUTRO TUNNEL DATUM
(4700' EST. ELEV.)

DISTRIBUTION OF MAJOR UNITS
BY TRANSFER FROM 2000 SCALE SECTIONS



DAVID LE COUNT EVANS
CONSULTING GEOLOGIST
RENO, NEVADA
MARCH 15, 1985

209



COMSTOCK DISTRICT AND ENVIRONS

STOREY & WASHOE COUNTIES, NEVADA

DAVID LeCOUNT EVANS
CONSULTING GEOLOGIST

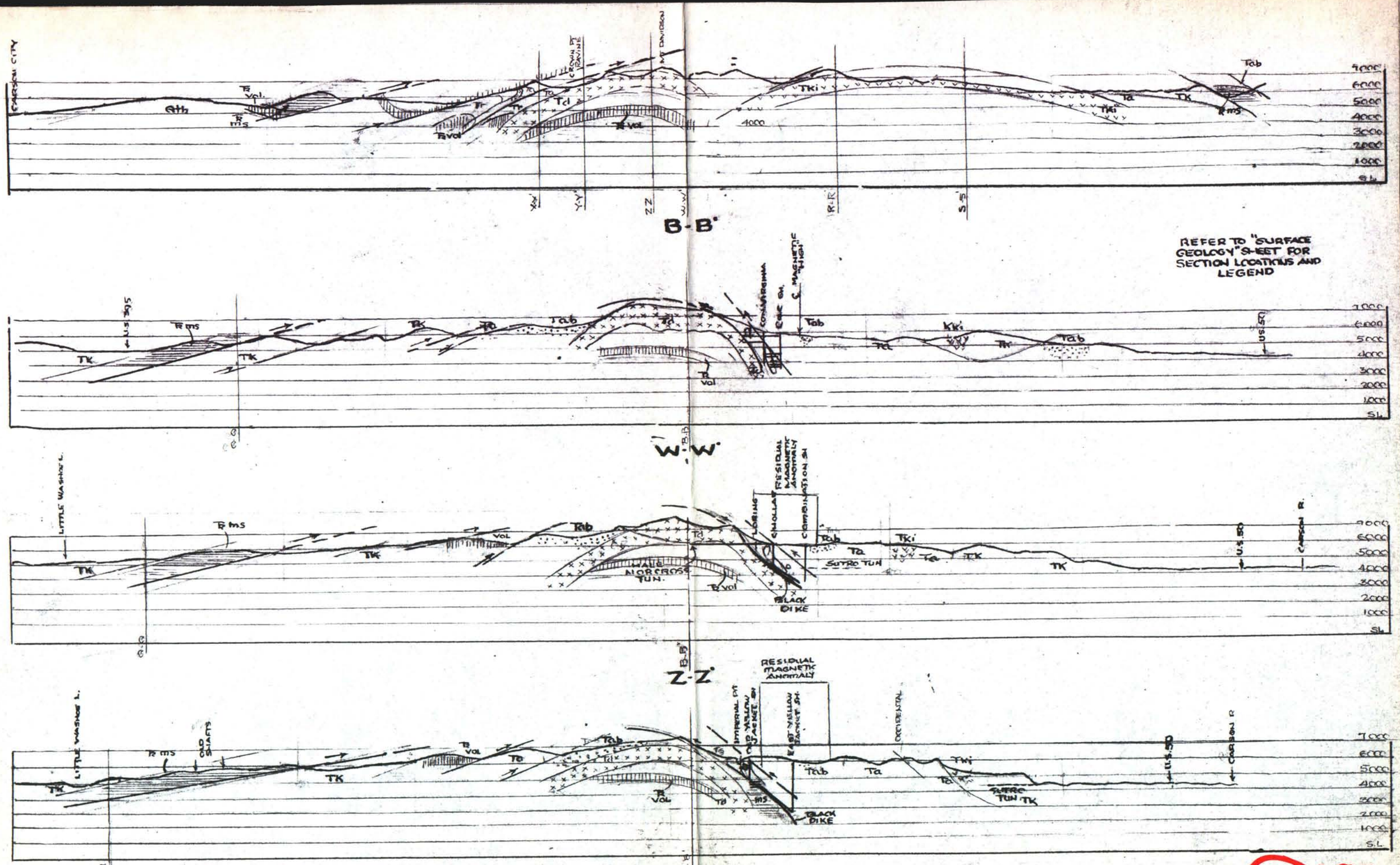
REGIONAL CROSS SECTIONS

INTERPRETIVE

1 INCH = 1 MILE

309 209

SHEET TWO



COMSTOCK DISTRICT AND ENVIRONS

STOREY & WASHOE COUNTIES, NEVADA

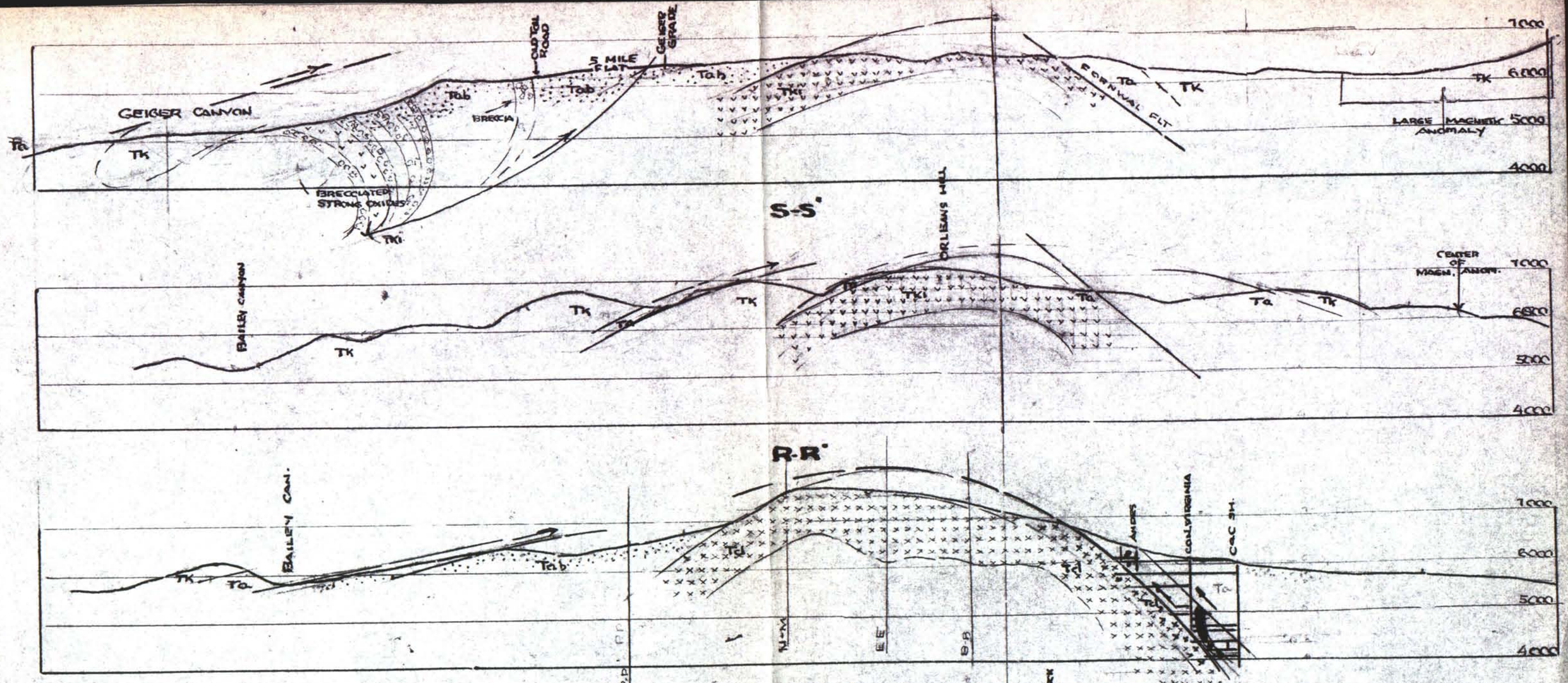
DAVID LeCOUNT EVANS
CONSULTING GEOLOGIST
RENO, NEVADA MAR 15 1985

REGIONAL CROSS SECTIONS

INTERPRETIVE
1 INCH = 1 MILE

208 209

SHEET ONE



COMSTOCK DISTRICT
AND ENVIRONS

STOREY & WASHOE
COUNTIES, NEVADA

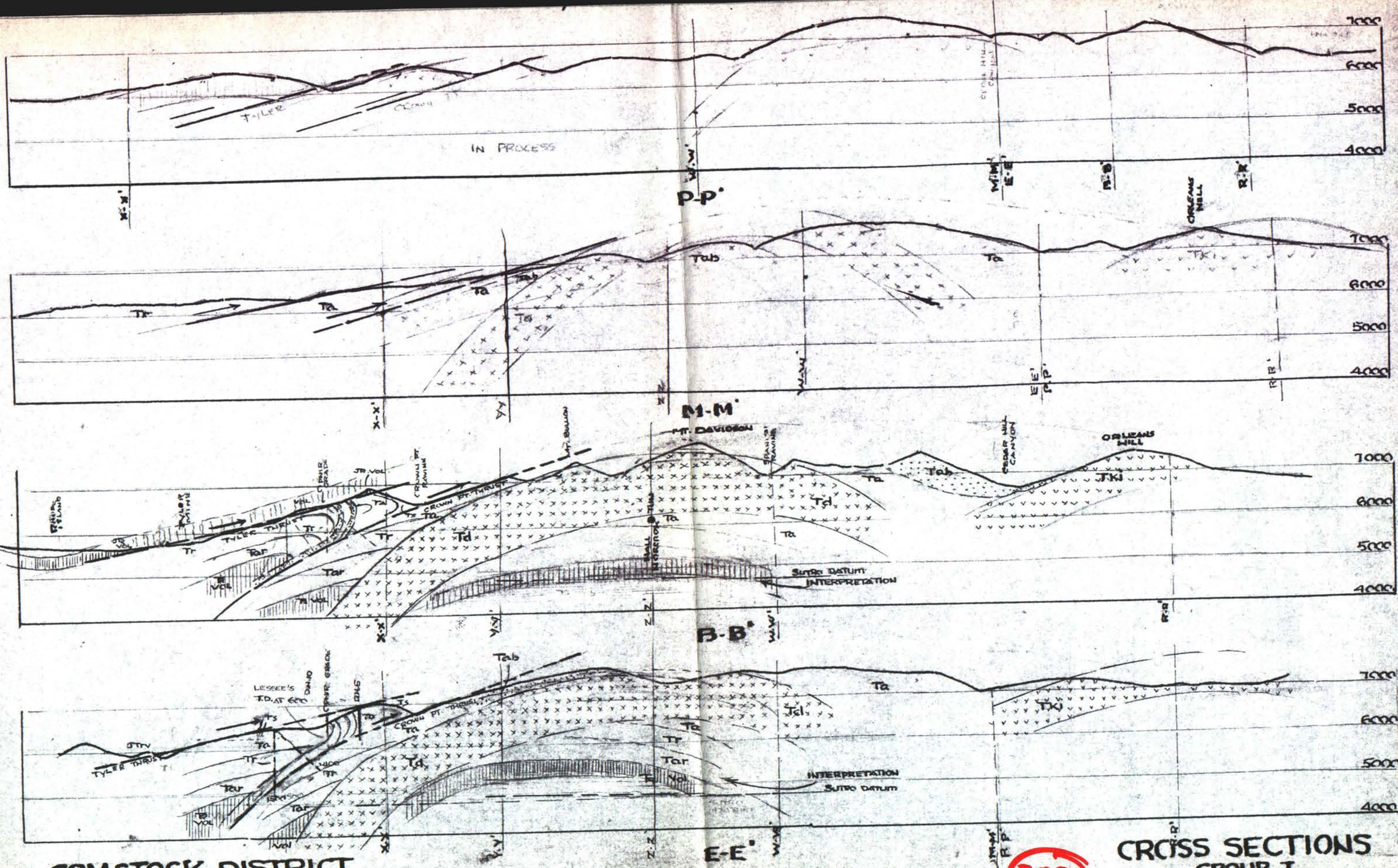
CROSS SECTIONS
GROUP II
NORTH WESTERLY
1 INCH = 2000 FT.

DAVID LeCOUNT EVANS
CONS. GEOLOGIST

RENO, NEVADA
JAN. 1985
MAR. 13, 1985

399
209

886



COMSTOCK DISTRICT
AND ENVIRONS

STOREY & WASHOE
COUNTIES, NEVADA

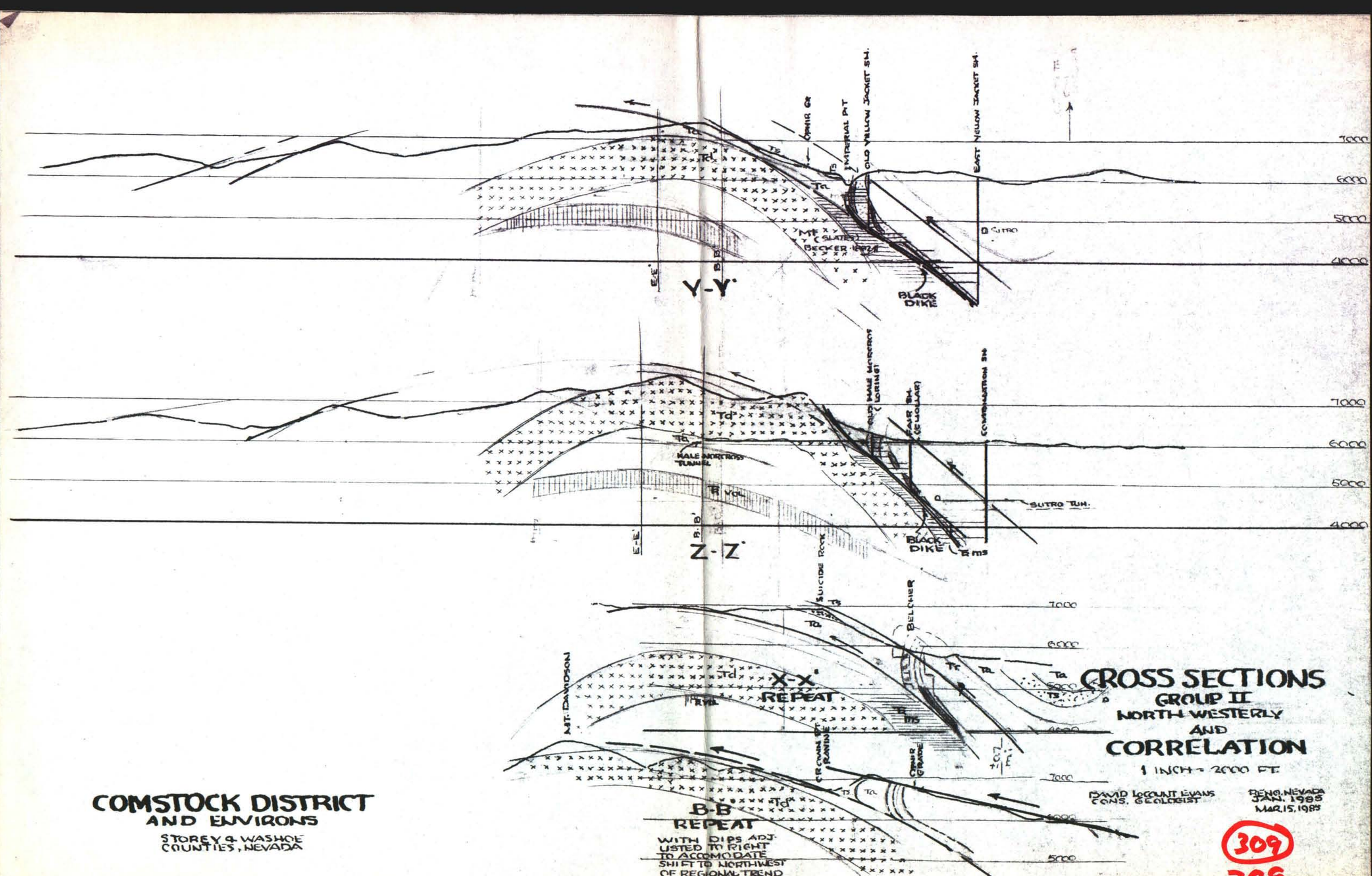
309
209

CROSS SECTIONS
GROUP I
NORTH EASTERLY

1 INCH = 2000 FT.

DAVID LeCOUNT EVANS
CONS. GEOLOGIST

RENO, NEVADA
JAN. 1985
MAR 15, 1985



COMSTOCK DISTRICT
AND ENVIRONS

STOREY & WASHOE
COUNTIES, NEVADA

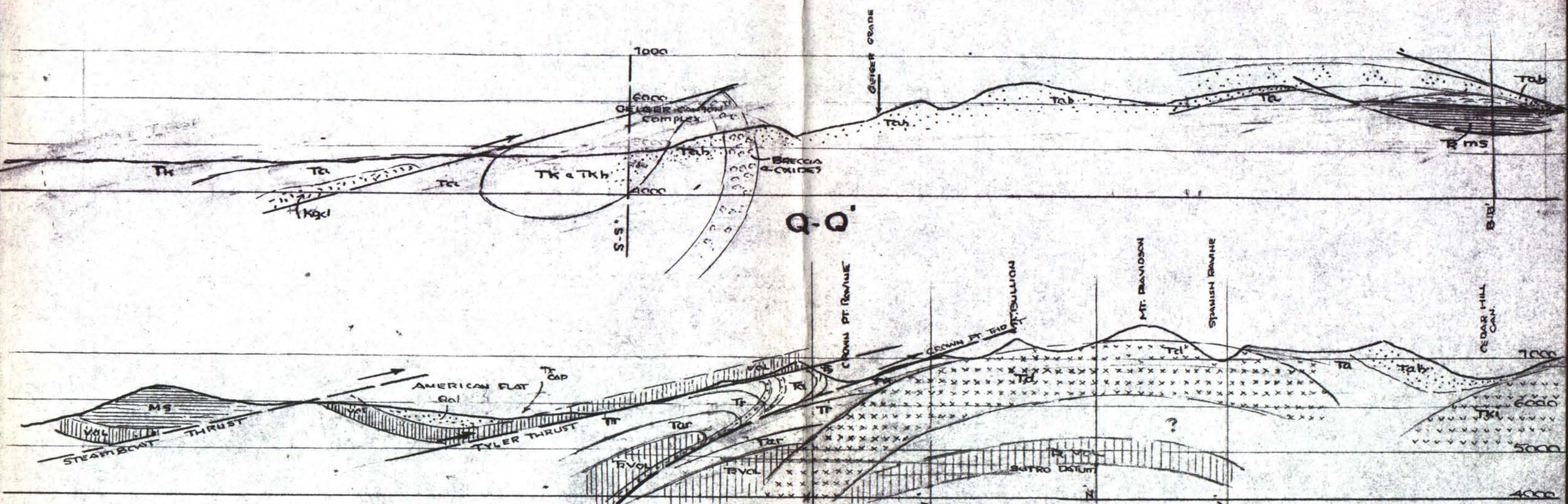
CROSS SECTIONS
GROUP II
NORTH WESTERLY
AND
CORRELATION

1 INCH = 2000 FT.

DAVID LOCKHART EVANS
CONS. GEOLOGIST
RENO, NEVADA

JAN. 1985
MAR. 15, 1985

309
209



COMSTOCK DISTRICT
AND ENVIRONS

STOREY & WASHOE
COUNTIES, NEVADA

309

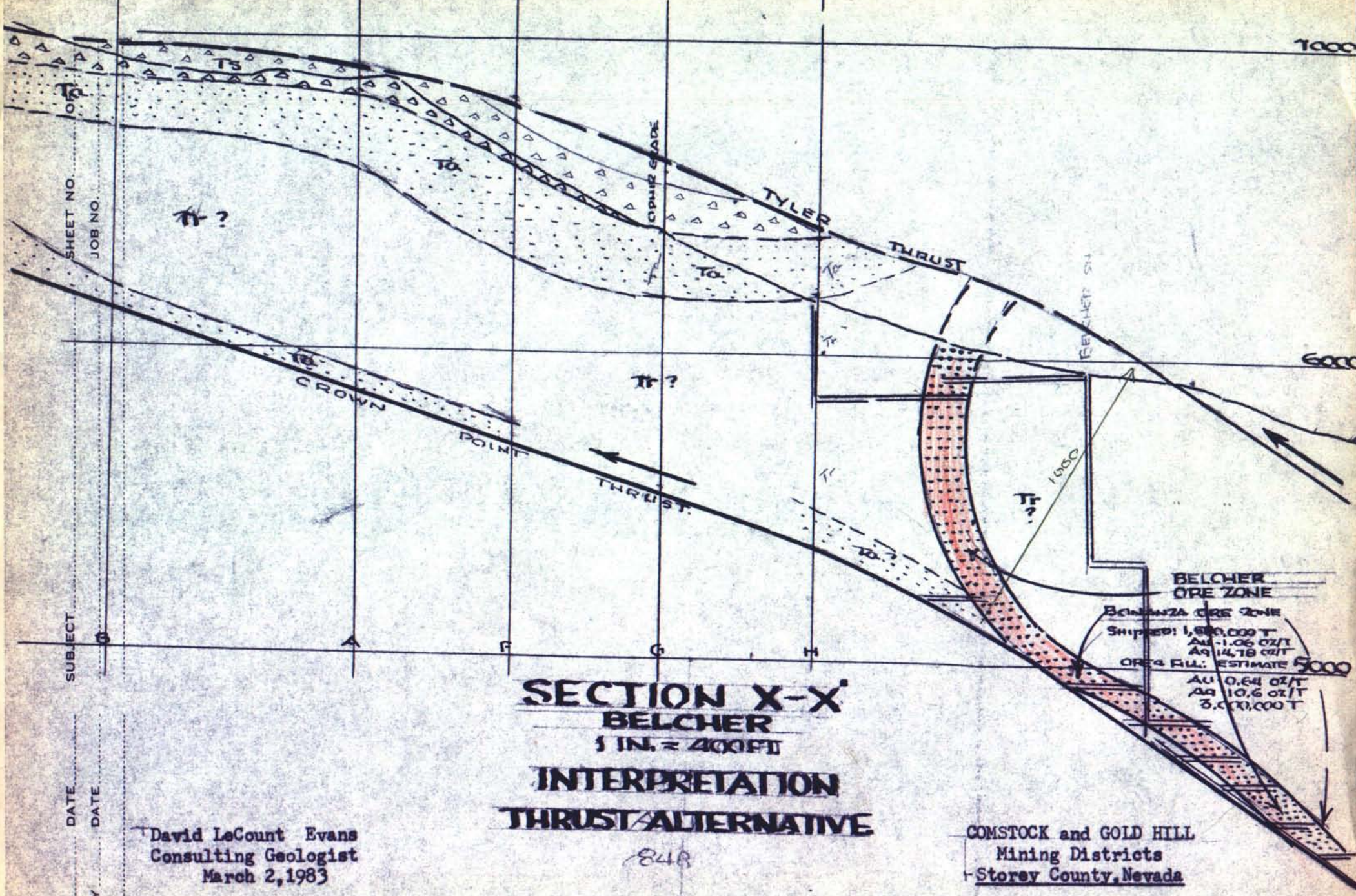
209

CROSS SECTIONS
EXTENSIONS

1 INCH = 2000 FT.

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA

JAN., 1985



SECTION X-X'

BELCHER

1 IN. = 400 FT

INTERPRETATION

THRUST ALTERNATIVE

E4R

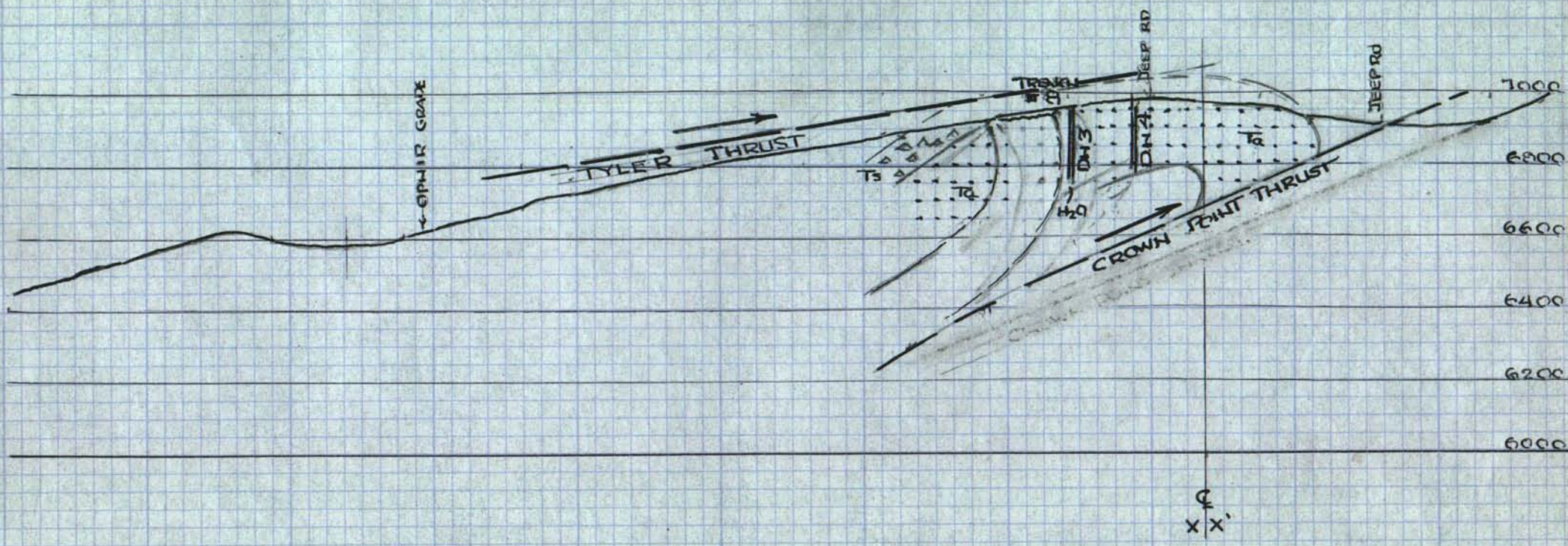
David LeCount Evans
Consulting Geologist
March 2, 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

M-5



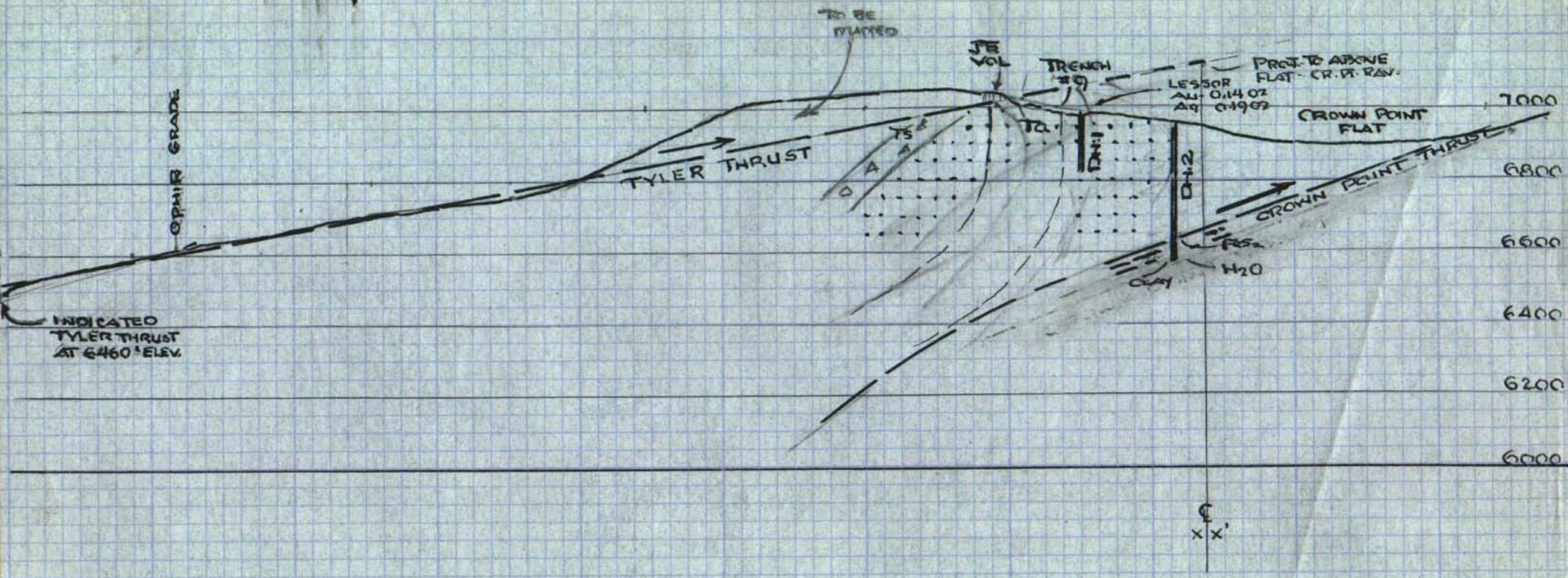
SECTION-K-K'

STAR GROUP

1 IN. = 400 FT.

DHF

6/21/84
12/18/84



SECTION - L-L'

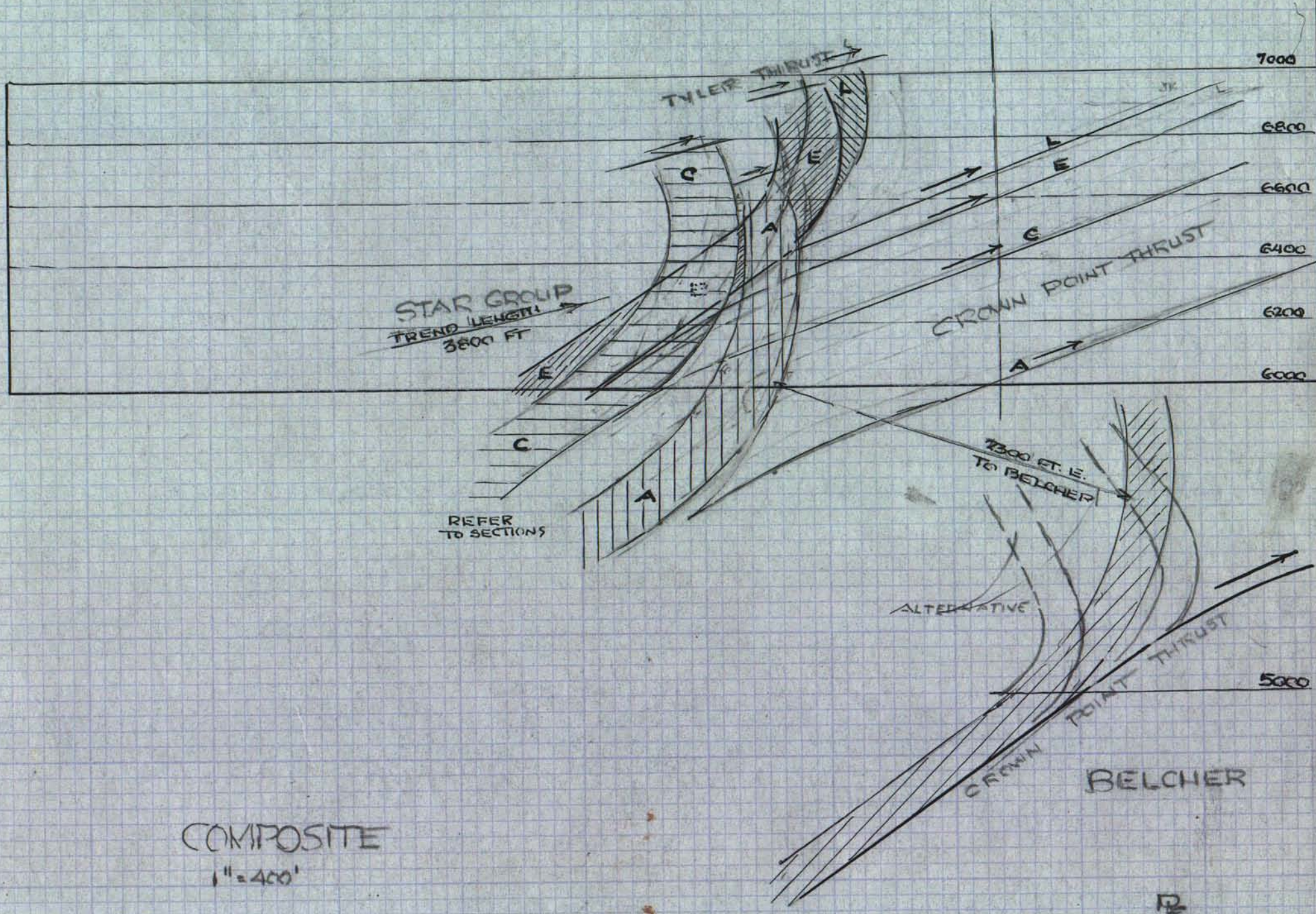
STAR GROUP

1 IN. = 400 FT.

TDE

6/21/84
6 18 84

L-L

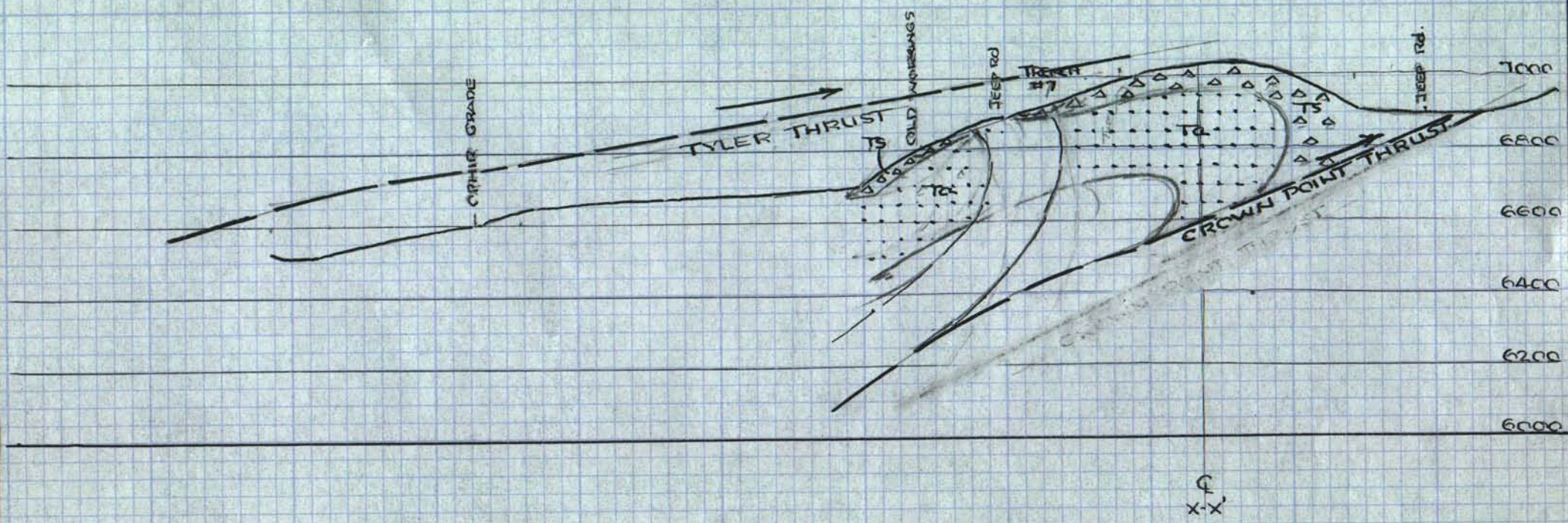


COMPOSITE

1"=400'

RE

12/17/84

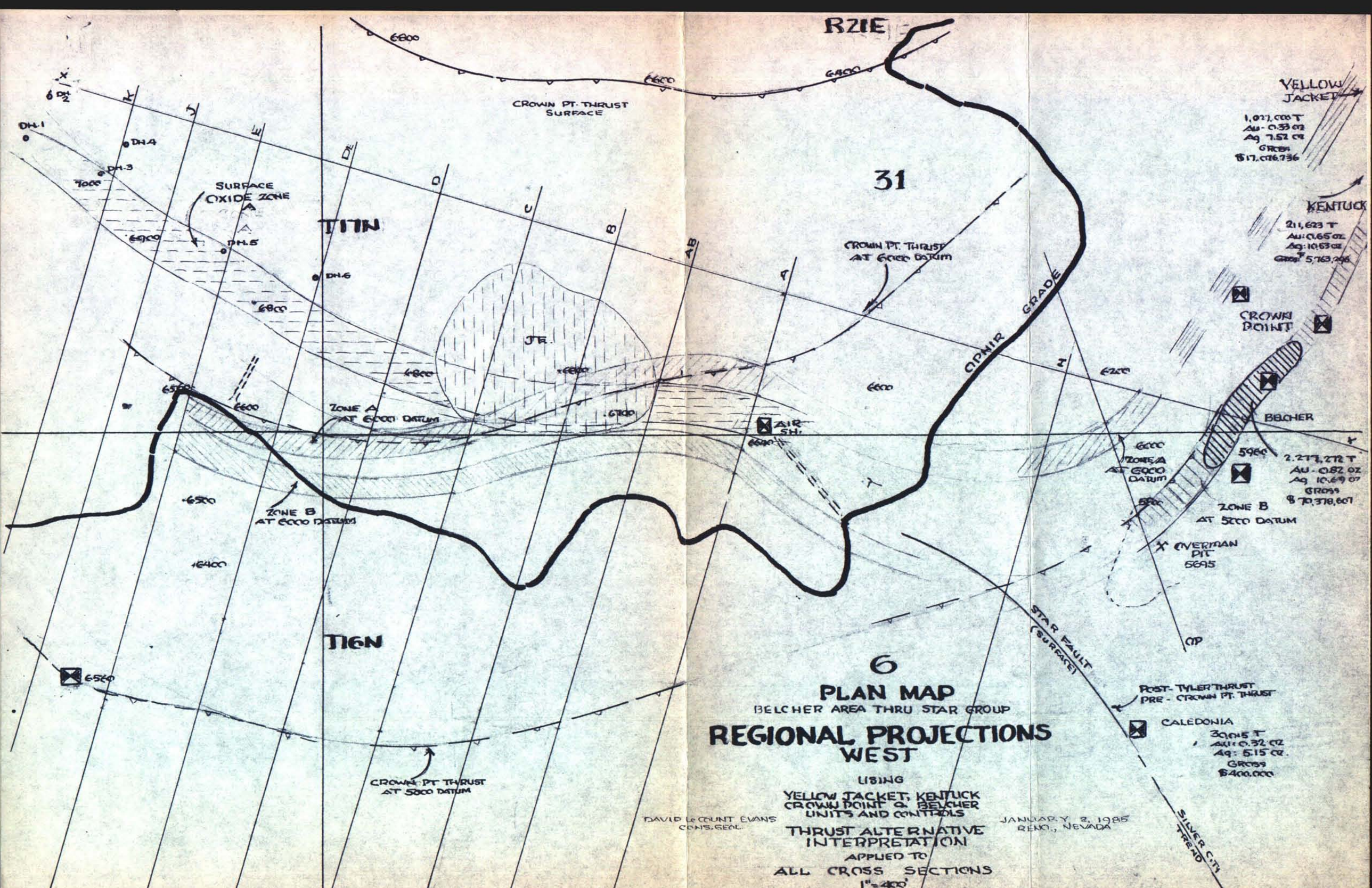


SECTION - J-J'

STAR GROUP

1 IN. = 400 FT.

6/21/84
12/18/84



6

PLAN MAP

BELCHER AREA THRU STAR GROUP

REGIONAL PROJECTIONS WEST

USING

YELLOW JACKET, KENTUCK
CROWN POINT & BELCHER
UNITS AND CONTROLS

THRUST ALTERNATIVE INTERPRETATION

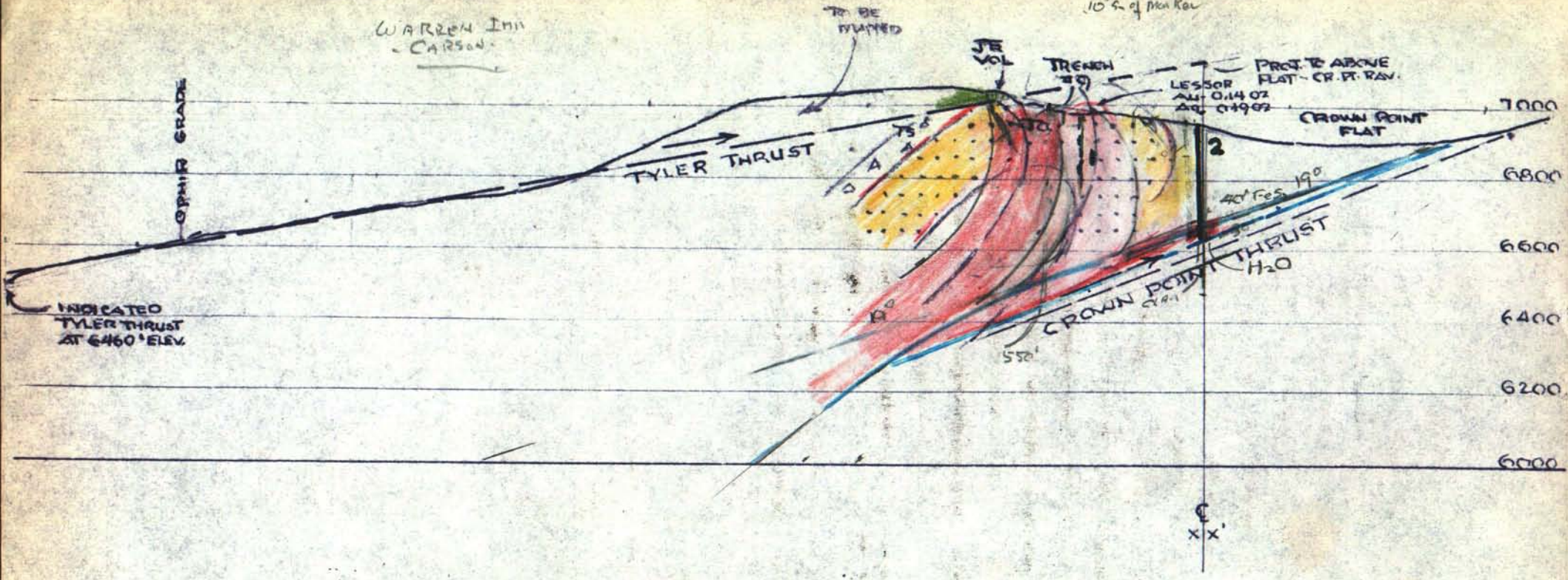
APPLIED TO

ALL CROSS SECTIONS

1"=400'

DAVID LE COUNT EVANS
CONS. GEOL.

JANUARY 2, 1985
RENO, NEVADA



SECTION - L - L'

STAR GROUP

1 IN. = 400 FT.

DE

6/21/84

R21E

INCOMPLETE

YELLOW JACKET
1,021,000 T
Au - 0.33 oz
Ag 7.52 oz
GROSS
$17,016,736

KENTUCK
211,623 T
Au: 0.65 oz
Ag: 10.63 oz
Gross $ 5,763,246

CROWN POINT

BELCHER

2,277,272 T
Au - 0.82 oz
Ag 10.69 oz
GROSS
$ 70,378,607

ZONE B
AT 5000 DATUM

EVERMAN PIT
5695

CP

31

CROWN PT. THRUST SURFACE

CROWN PT. THRUST AT 6000 DATUM

OPHIR GRADE

STAR FAULT (SURFACE)

POST-TYLER THRUST
PRE-CROWN PT. THRUST

CALEDONIA
30,005 T
Au: 0.32 oz
Ag: 5.15 oz.
GROSS
$400,000

SILVER CITY TREND

DH-1
DH-4
DH-3
DH-5
DH-6

SURFACE OXIDE ZONE A

T17N

T16N

JF.

AIR SH.

ZONE A AT 6000 DATUM

ZONE B AT 6000 DATUM

CROWN PT THRUST AT 5000 DATUM

6

PLAN MAP

BELCHER AREA THRU STAR GROUP

REGIONAL PROJECTIONS WEST

USING

YELLOW JACKET, KENTUCK
CROWN POINT & BELCHER
UNITS AND CONTROLS

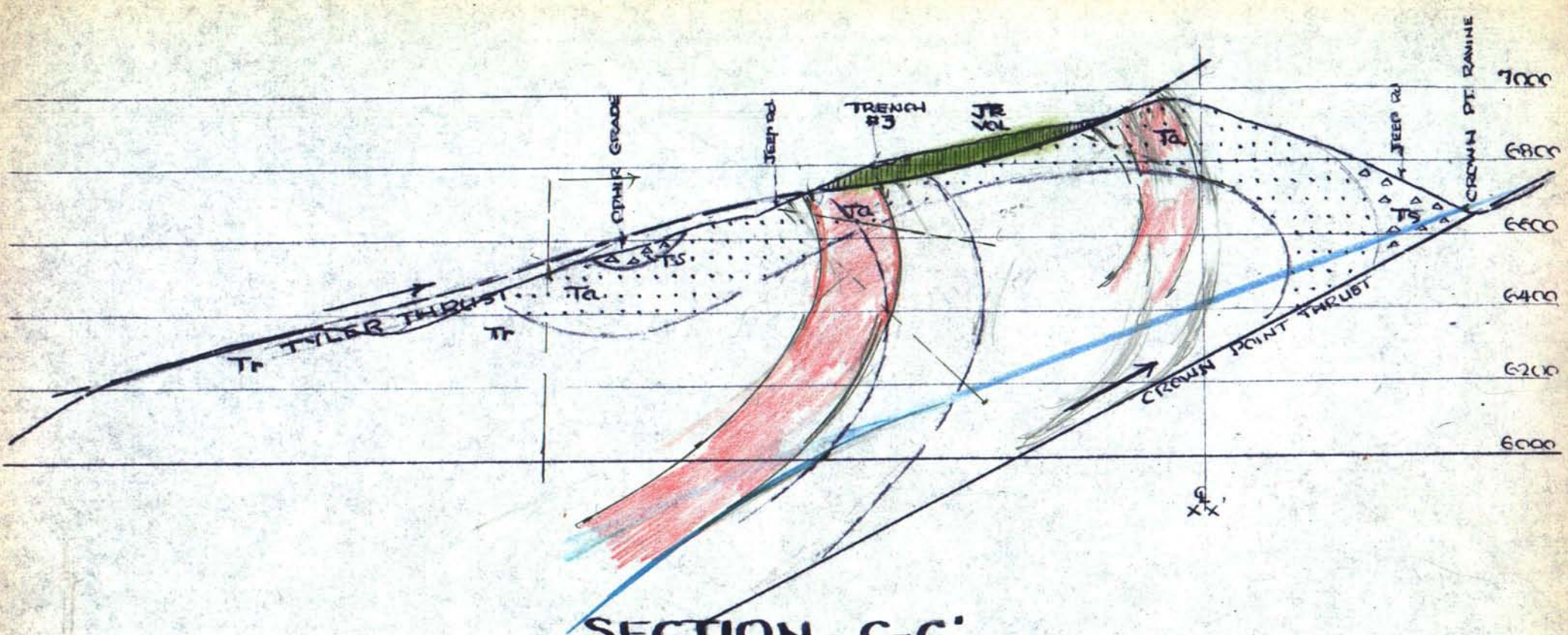
THRUST ALTERNATIVE INTERPRETATION

APPLIED TO

ALL CROSS SECTIONS

DAVID LeCOUNT EVANS
CONS. GEOL.

JANUARY 2, 1985
RENO, NEVADA



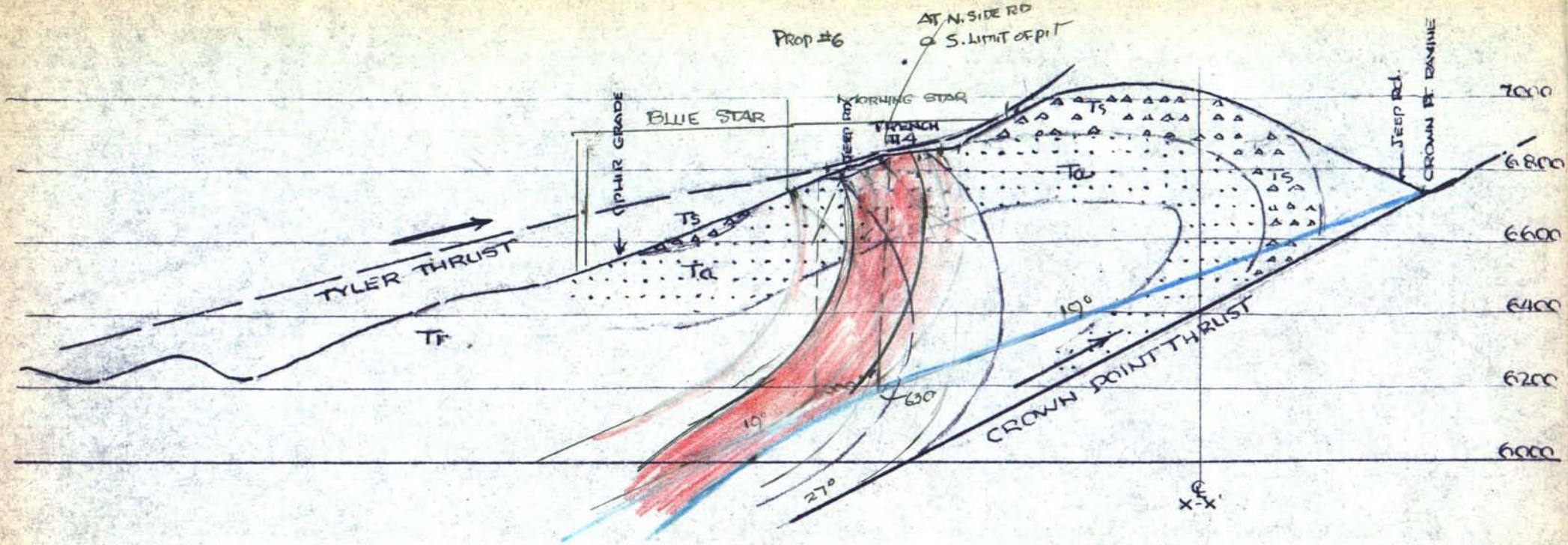
SECTION - C-C'

STAR GROUP

1 IN. = 400 FT.

TRE

6/21/64

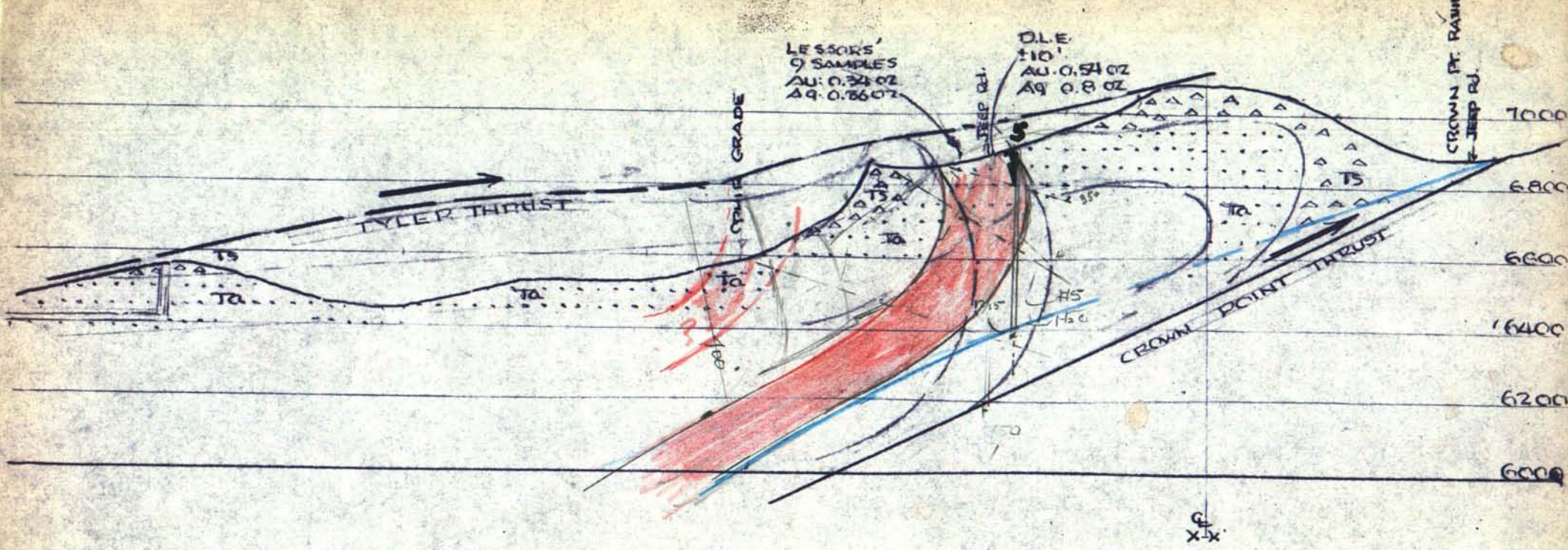


SECTION - D-D'

STAR GROUP

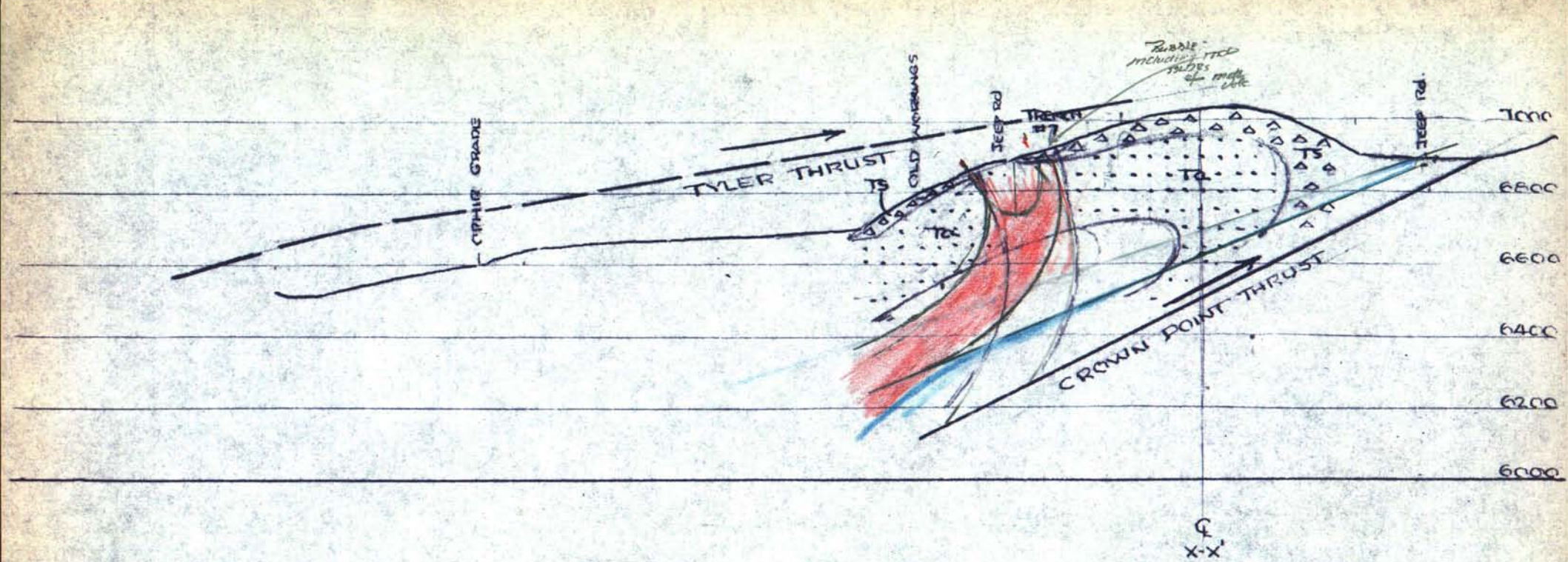
1 IN. = 400 FT.

RE 6/21/84



SECTION-E-E'
STAR GROUP
1 IN. = 400 FT.

DE 6/21/84



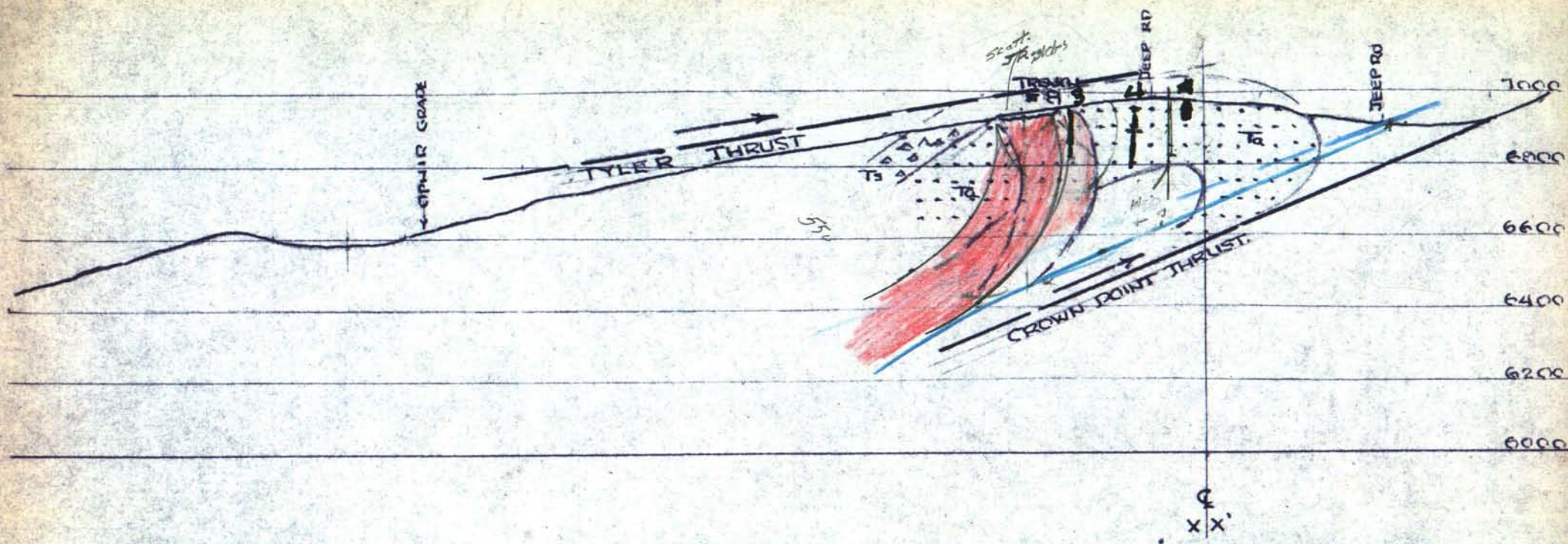
SECTION - J-J'

STAR GROUP

1 IN. = 400 FT.

PE 6/21/84

J-J



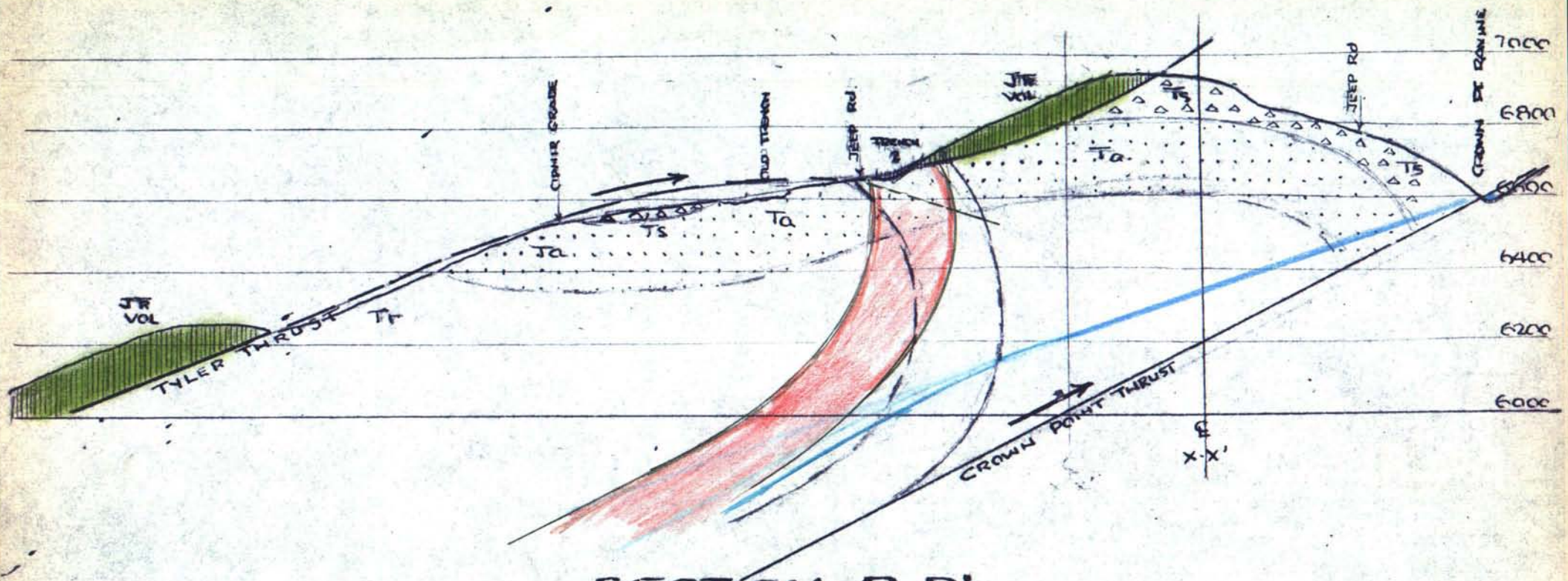
SECTION - K-K'

STAR GROUP

1 IN. = 400 FT.

DE

6/21/84



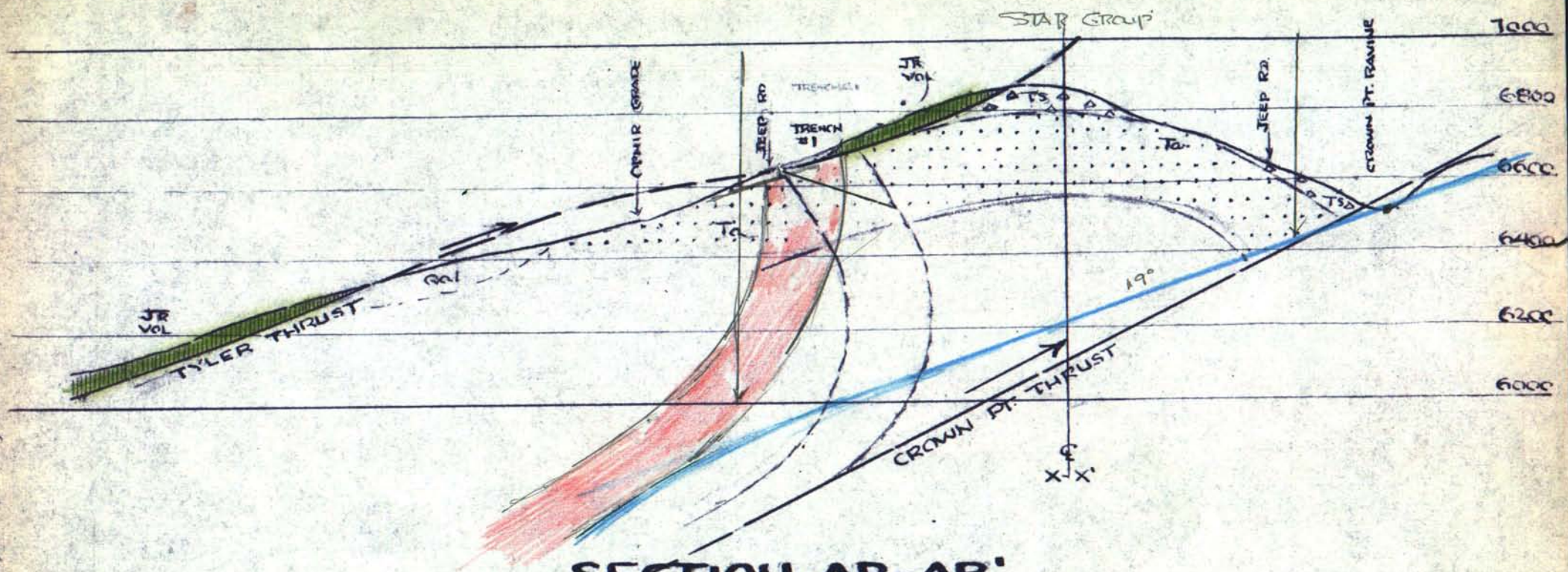
SECTION-B-B'

STAR GROUP

1 IN = 400 FT.

TE

6/21/84



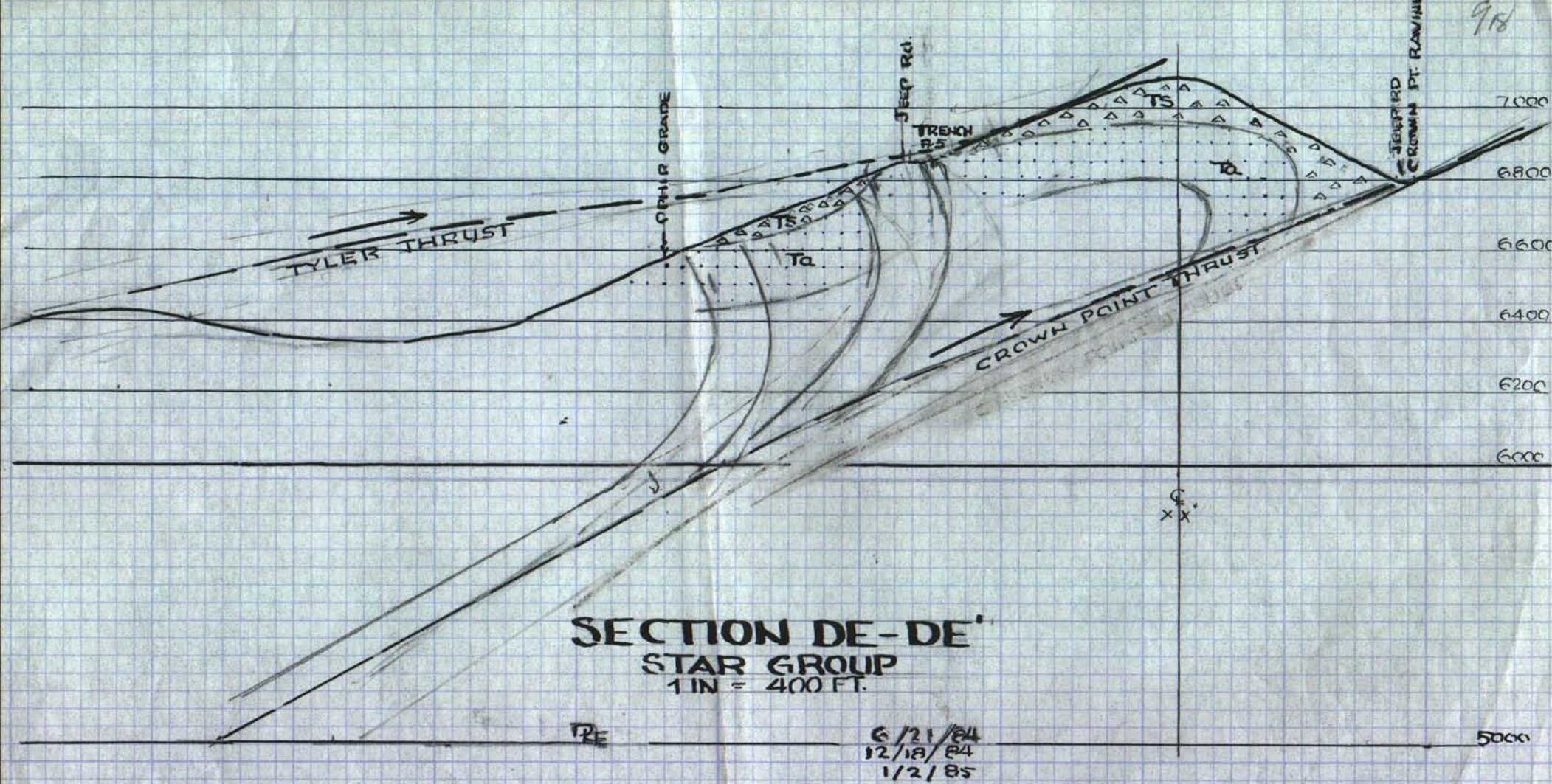
SECTION-AB-AB'

STAR GROUP

1 IN = 400 FT.

THE

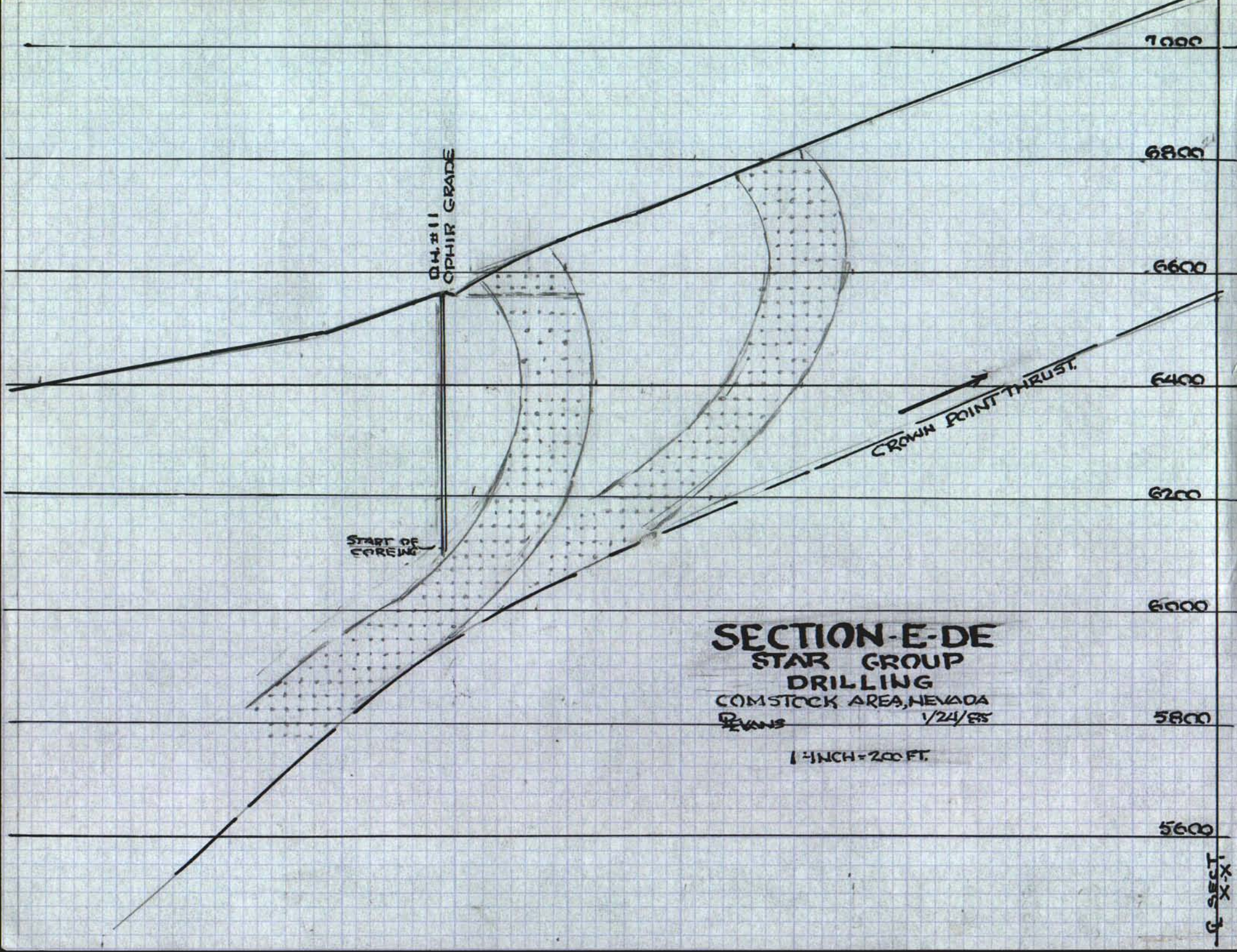
6/21/84



SECTION DE-DE'
STAR GROUP
1 IN = 400 FT.

DE

6/21/84
12/18/84
1/2/85


7000
6800
6600
6400
6200
6000
5800
5600
DH #11
OPHIR GRADE
START OF COREING
CROWN POINT THRUST.
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
D. EVANS 1/24/85
1 INCH = 200 FT.
SECT. X-X'

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

BUENA VISTA MINES
1164 Market Street
Morro Bay, California 93442

Date: January 14, 1985

Laboratory Number: 23444

Analytical Method: A.A.

Your Order Number:

Report on: 48 samples

Sample Mark:	Gold oz/ton	Silver oz/ton	Sample Mark:	Gold oz/ton	Silver oz/ton
#6-392-396	0.001	0.03	#9-104-108	-0.001	-0.03
404-408	-0.001	-0.03	108-112	-0.001	-0.03
416-420	-0.001	-0.03	112-116	-0.001	-0.03
424-428	-0.001	-0.03	116-120	-0.001	-0.03
432-436	0.001	0.03	124-128	-0.001	-0.03
444-448	0.003	0.03	132-136	-0.001	-0.03
448-452	0.013	0.03	172	-0.001	-0.03
452-456	0.006	0.03	184	-0.001	-0.03
456-460	0.004	-0.03	216	0.001	0.03
460-464	0.003	-0.03	224	0.001	-0.03
#6-464-468	0.002	-0.03	232	0.001	-0.03
#9-16-20	-0.001	-0.03	240	0.001	-0.03
36-40	0.001	-0.03	244	0.001	-0.03
44-48	-0.001	-0.03	248	0.001	-0.03
56-60	-0.001	-0.03	252	0.002	0.12
64-68	-0.001	-0.03	256	0.012	0.47
76-80	-0.001	-0.03	260	0.009	0.29
84-88	-0.001	-0.03	264	0.005	0.15
96-100	-0.001	-0.03	268	0.003	0.09
#9-100-104	-0.001	-0.03	#9-276	0.001	0.06

continued to page 2

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousand. **ppb** = 0.001 ppm. Read — as "less than." 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

Sample Mark:	Gold oz/ton	Silver oz/ton
#9-280	0.001	0.06
288	0.001	0.03
292	0.001	-0.03
300	0.001	-0.03
308	0.001	0.03
316	0.001	0.03
324	0.001	-0.03
#9-332	0.002	-0.03

HUNTER MINING LABORATORY, INC.

Gary M. Fechko

HUNTER MINING LABORATORY, INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

Date: January 11, 1985

BUENA VISTA MINES
Mr. Biaggini
1164 Market Street
Morro Bay, California 93442

Laboratory Number: 23429

Analytical Method: AA
Fire A.T.

Your Order Number:

Report on: 50 samples

Sample Mark:	Gold oz/ton	Silver oz/ton	Sample Mark:	Gold oz/ton	Silver oz/ton
#4-192	-0.001	-0.03	#8-64	-0.001	-0.03
196	-0.001	-0.03	68	-0.001	-0.03
420	0.001	0.03	72	-0.001	-0.03
424	0.002	0.03	76	-0.001	-0.03
428	0.002	0.03	80	-0.001	-0.03
436	0.001	-0.03	84	-0.001	-0.03
440	0.001	-0.03	88	-0.001	-0.03
448	-0.001	-0.03	96	-0.001	-0.03
452	-0.001	-0.03	100	-0.001	-0.03
#4-456	-0.001	-0.03	104	-0.001	-0.03
#5-44	-0.001	-0.03	108	-0.001	-0.03
#8-24	-0.001	-0.03	112	-0.001	-0.03
28	-0.001	-0.03	120	-0.001	-0.03
32	-0.001	-0.03	124	-0.001	-0.03
36	-.001	-0.03	128	-0.001	-0.03
40	-0.001	-0.03	136	-0.001	-0.03
48	0.001	-0.03	144	-0.001	-0.03
52	-0.001	-0.03	152	-0.001	-0.03
56	-0.001	-0.03	160	-0.001	-0.03
#8-60	-0.001	-0.03	#8-196	-0.001	-0.03

continued to page 2

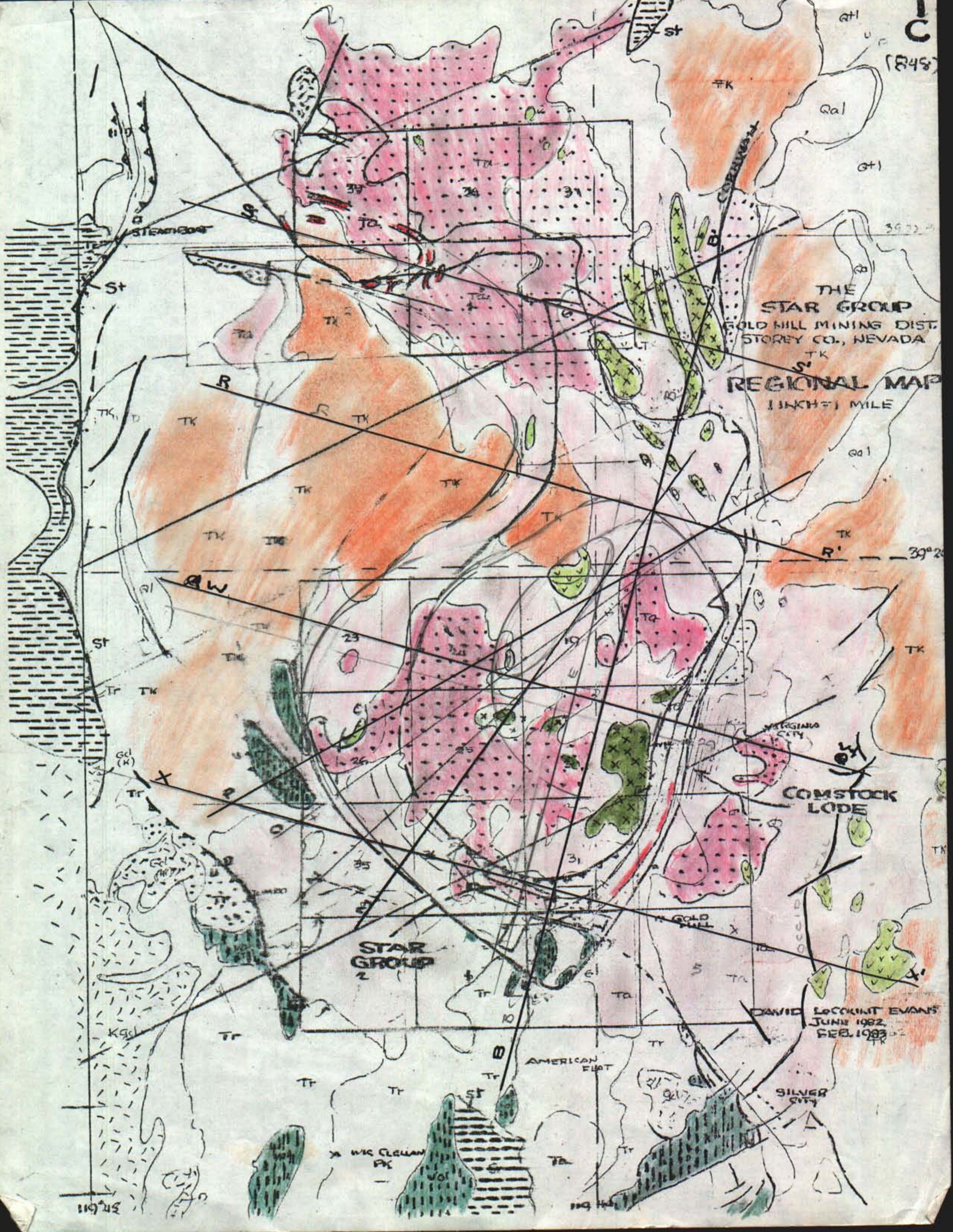
ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousand. **ppb** = 0.001 ppm. Read — as "less than." 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

Sample Mark:	Gold oz/ton	Silver oz/ton
#8-208	-0.001	-0.03
220	-0.001	-0.03
224	-0.001	-0.03
228	-0.001	-0.03
232	-0.001	-0.03
236	-0.001	-0.03
240	-0.001	0.03
#8-232	0.001	-0.03
Back Hole	0.004	0.03

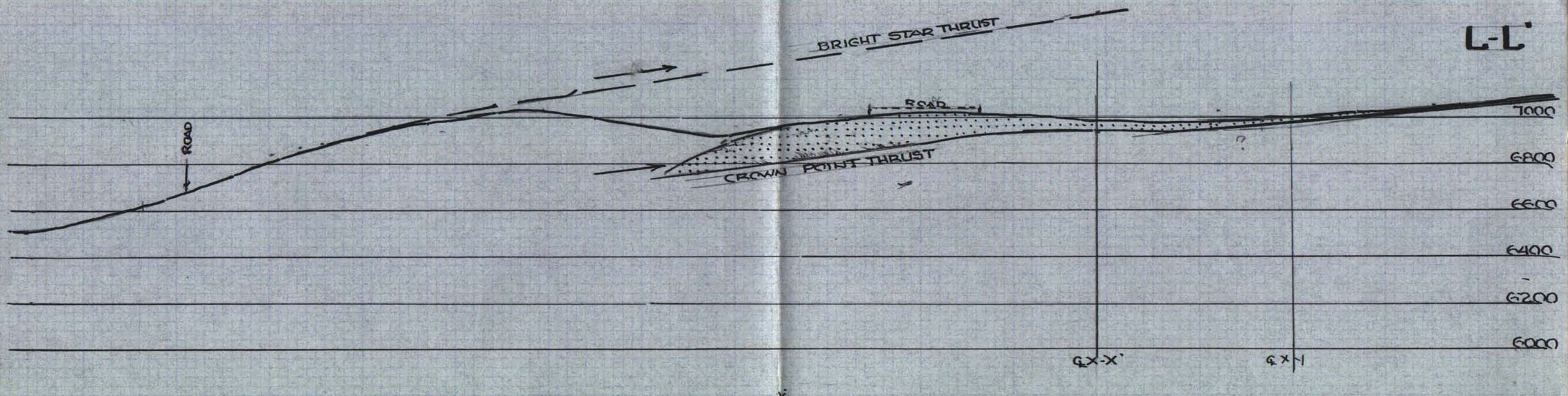
Sample Mark:	Fire A.T. Gold oz/ton	Fire A.T. Silver oz/ton
#8-172	-0.001	-0.01

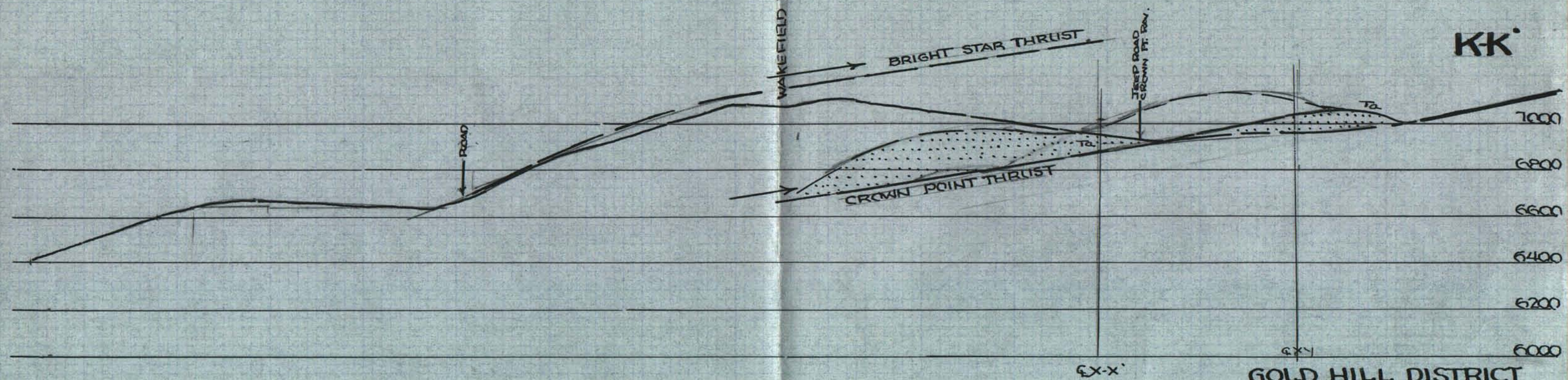
HUNTER MINING LABORATORY, INC.

Gary M. Fechko



THE
STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA
REGIONAL MAP
1 INCH=1 MILE
COMSTOCK LODE
VIRGINIA CITY
GOLD HILL
SILVER CITY
AMERICAN FLAT
STAR GROUP
STEAMBOAT
DAVID LoCOUNT EVANS
JUNE 1982
FEB. 1983
(848)





DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

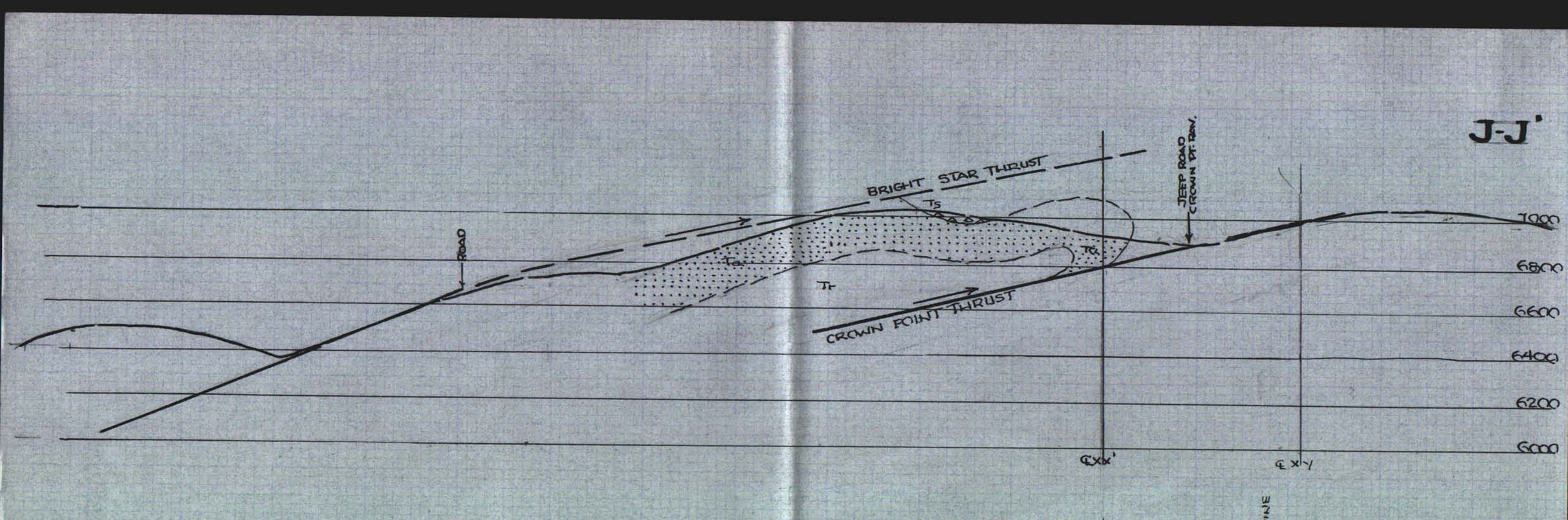
STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK



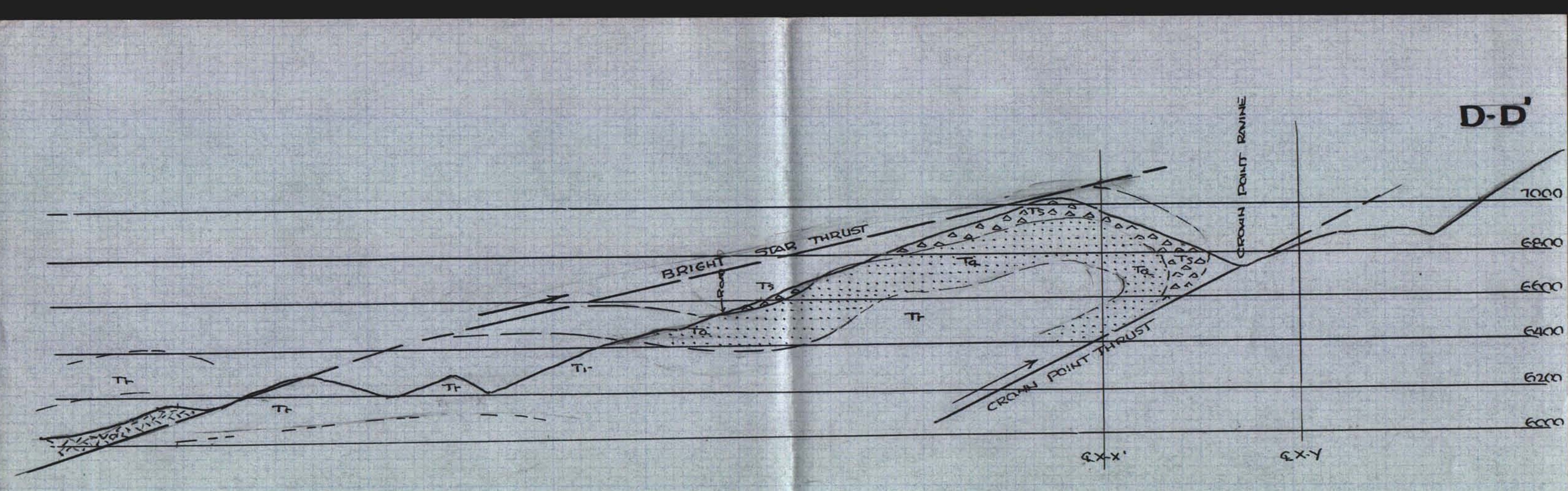
DAVID LeCOUNT EVANS
CONS. GEOLOGIST.
RENO, NEVADA
JAN. 1983

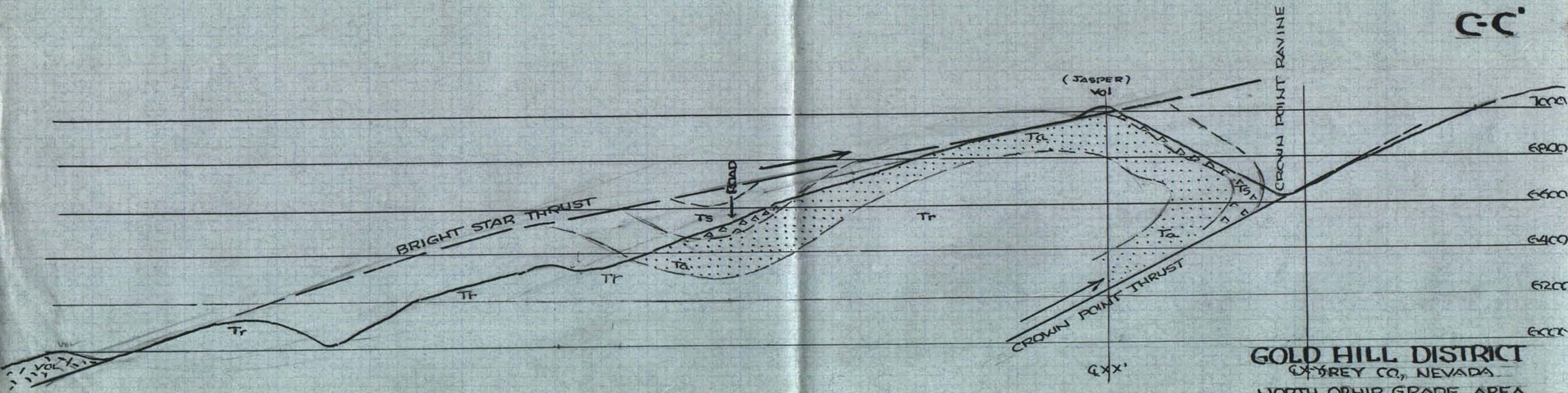
CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK





CROSS SECTIONS

1 INCH = 400 FT.

DAVID LeCOUNT EVANS
CONS. GEOLOGIST,
RENO, NEVADA,
JAN. 1983

GOLD HILL DISTRICT

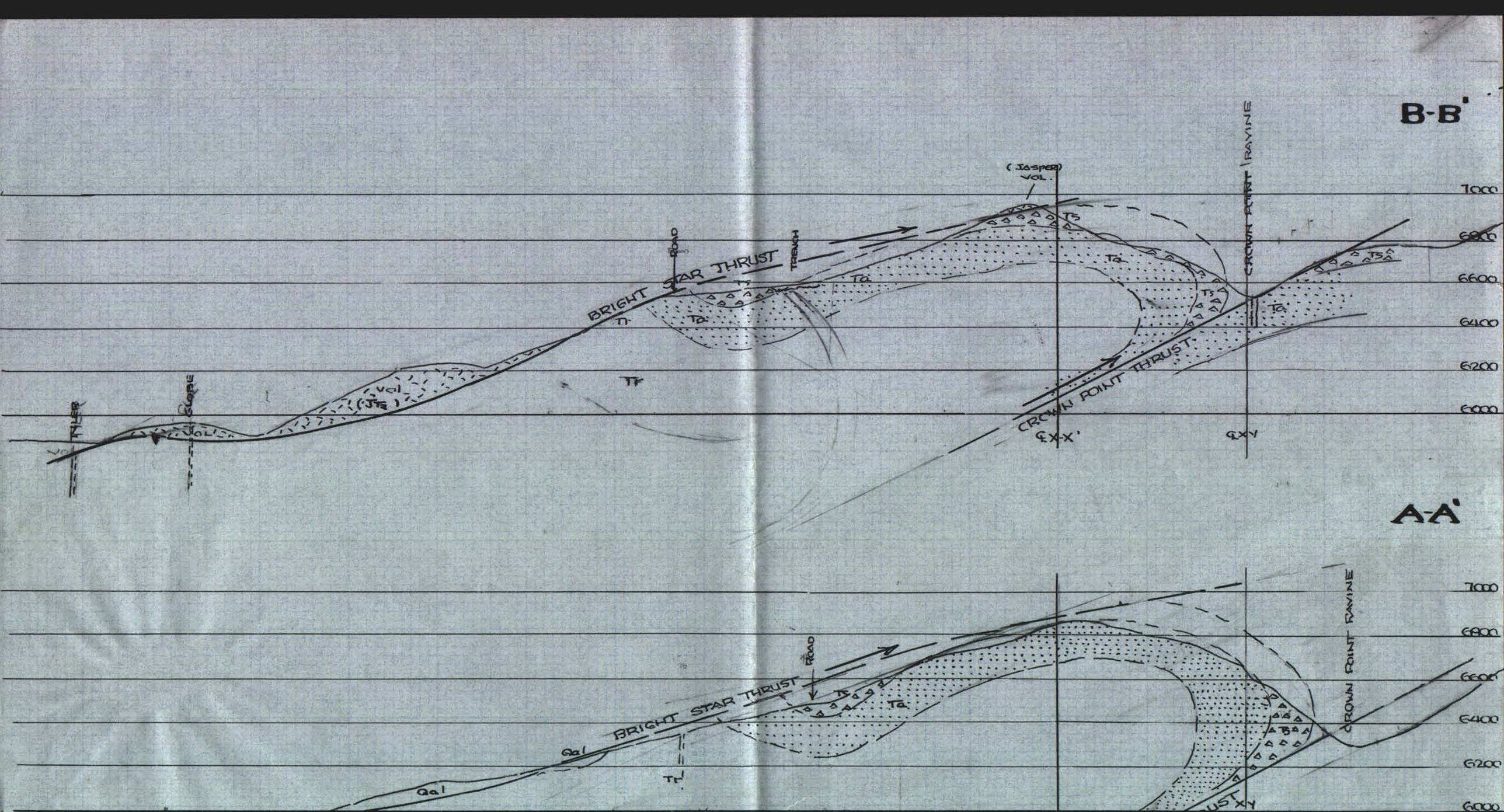
ESMEREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK



CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

STOREY CO., NEVADA

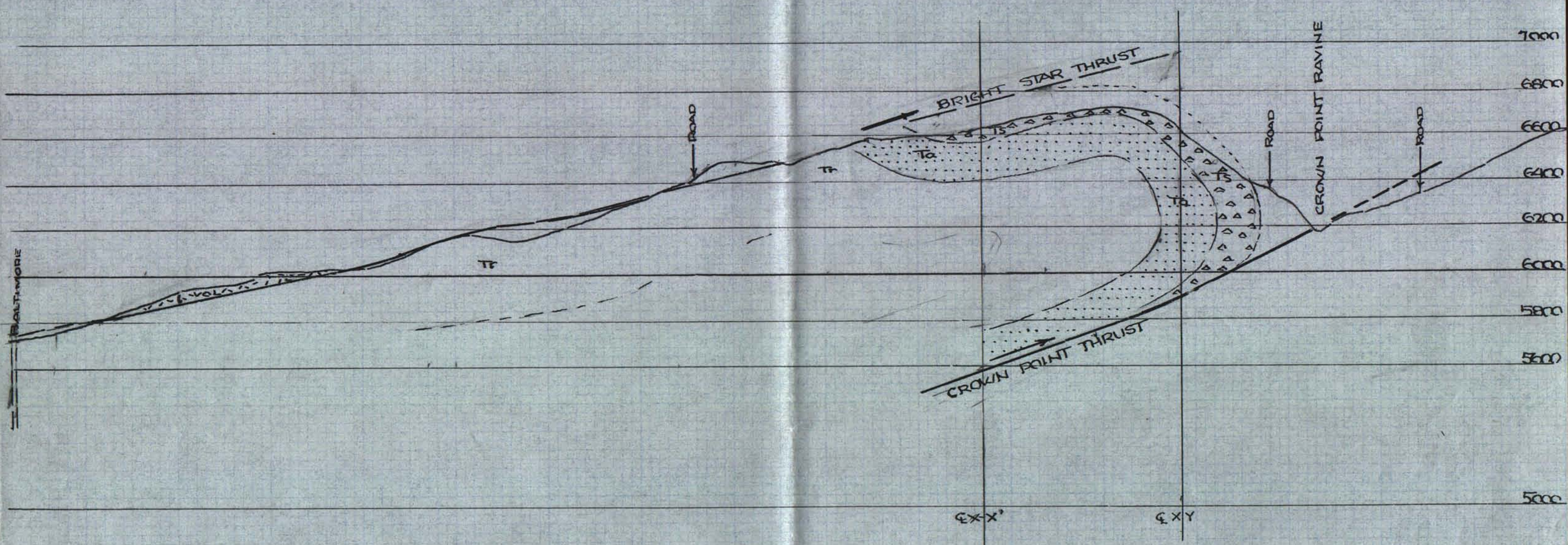
NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK

F-F'



GOLD HILL DISTRICT

STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK

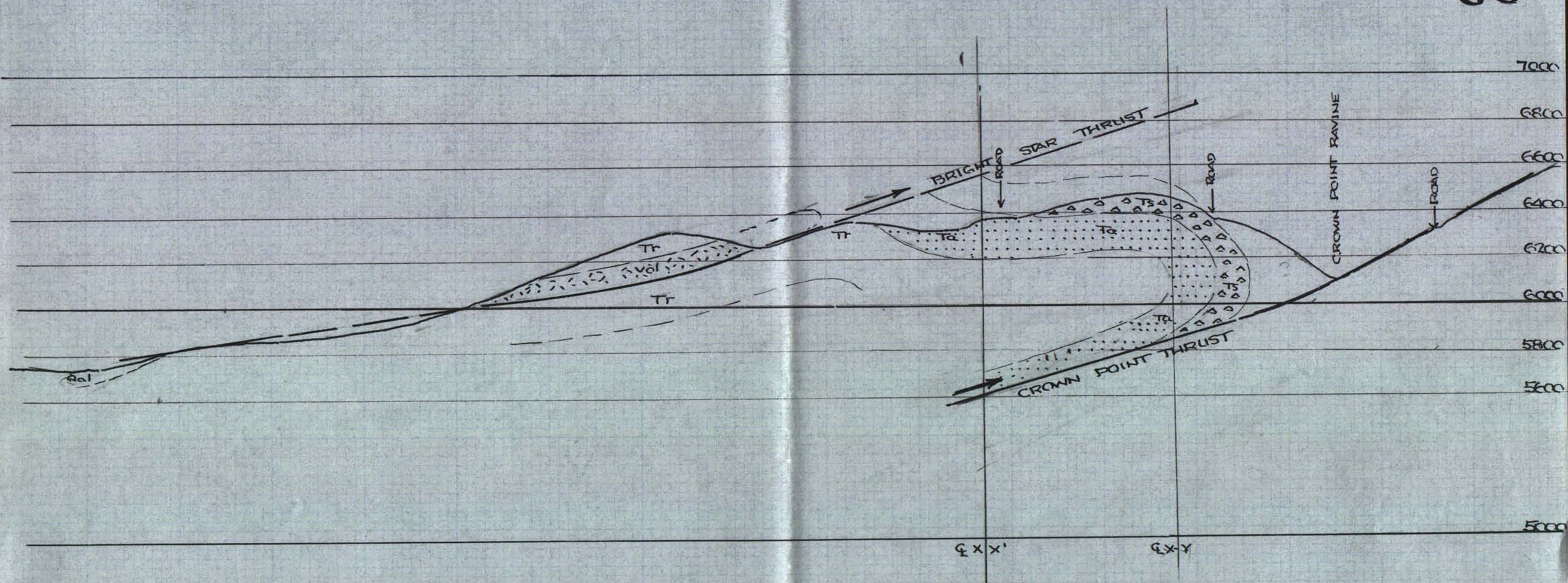
DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA

JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

G-G'



GOLD HILL DISTRICT

STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

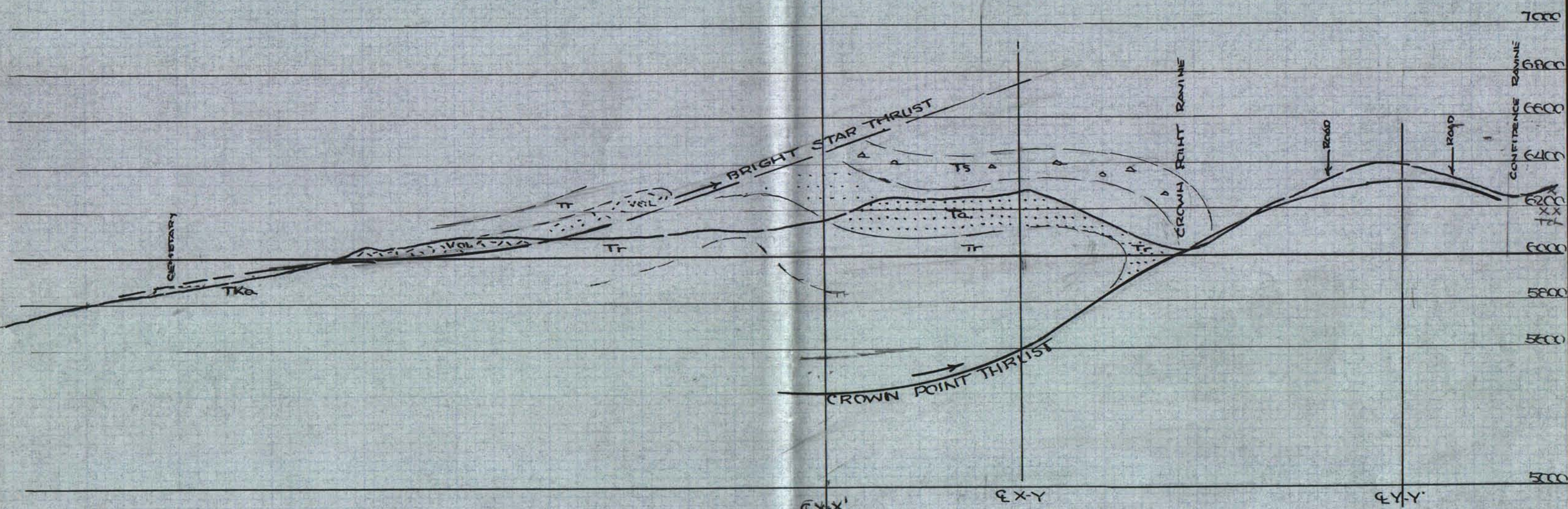
IMPERIAL PIT WEST TO WAKEFIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

H-H'



GOLD HILL DISTRICT
STOREY CO, NEVADA
NORTH OPHIR GRADE AREA
PROPOSED

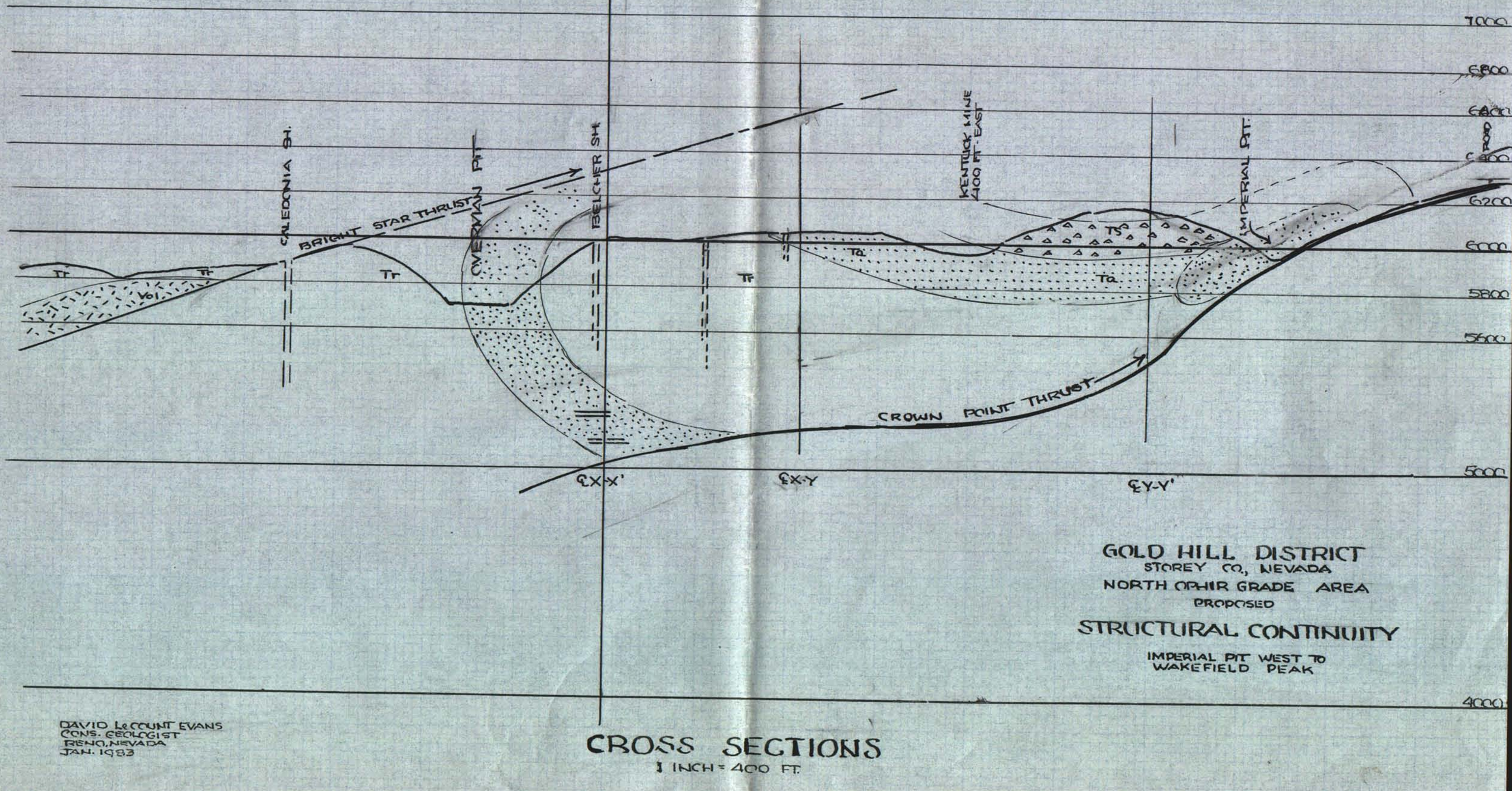
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.

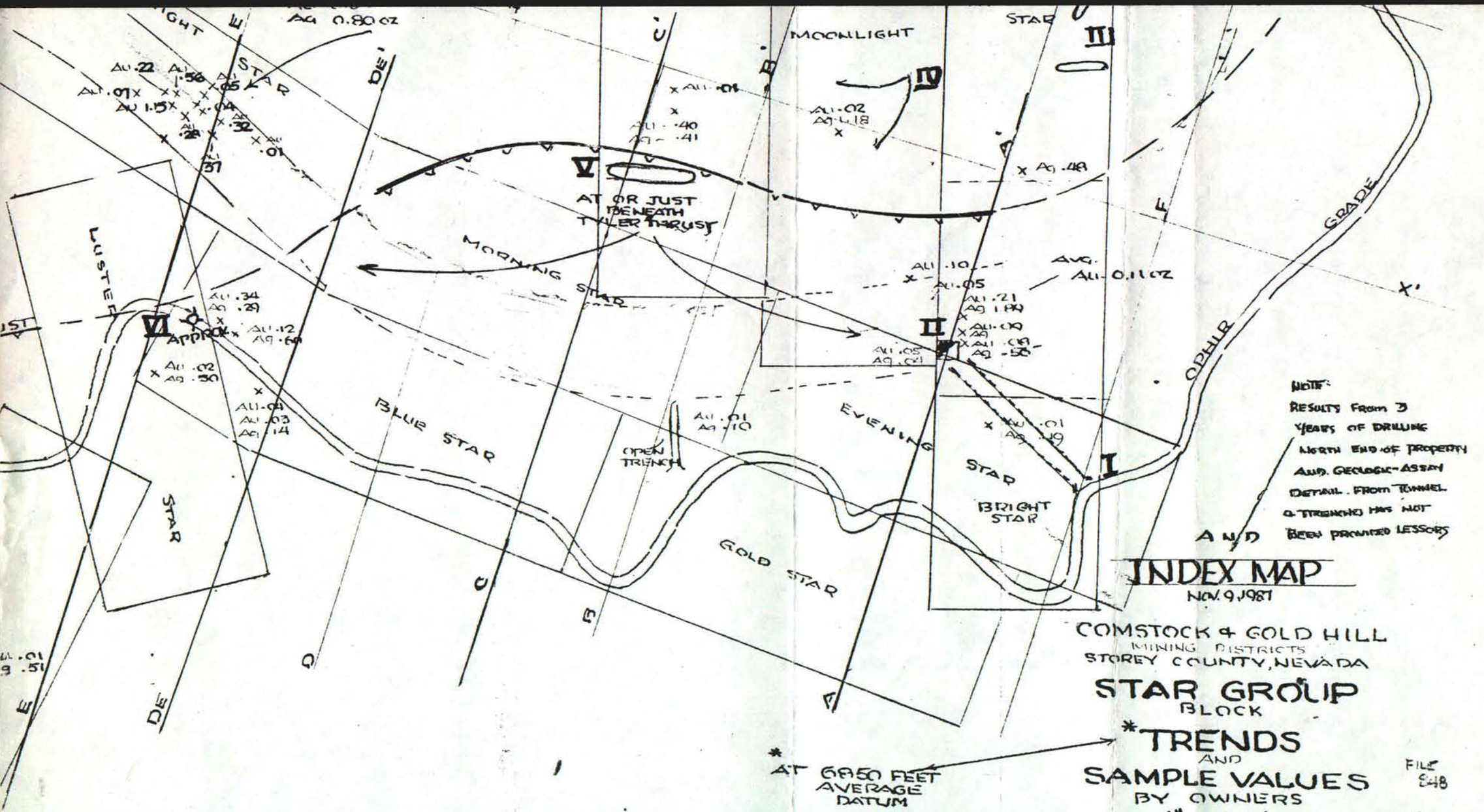
I-I'



GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY
IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID L. COUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.



INDEX MAP

NOV. 9, 1987

COMSTOCK & GOLD HILL
MINING DISTRICTS
STOREY COUNTY, NEVADA

STAR GROUP
BLOCK

*TRENDS
AND
SAMPLE VALUES
BY OWNERS

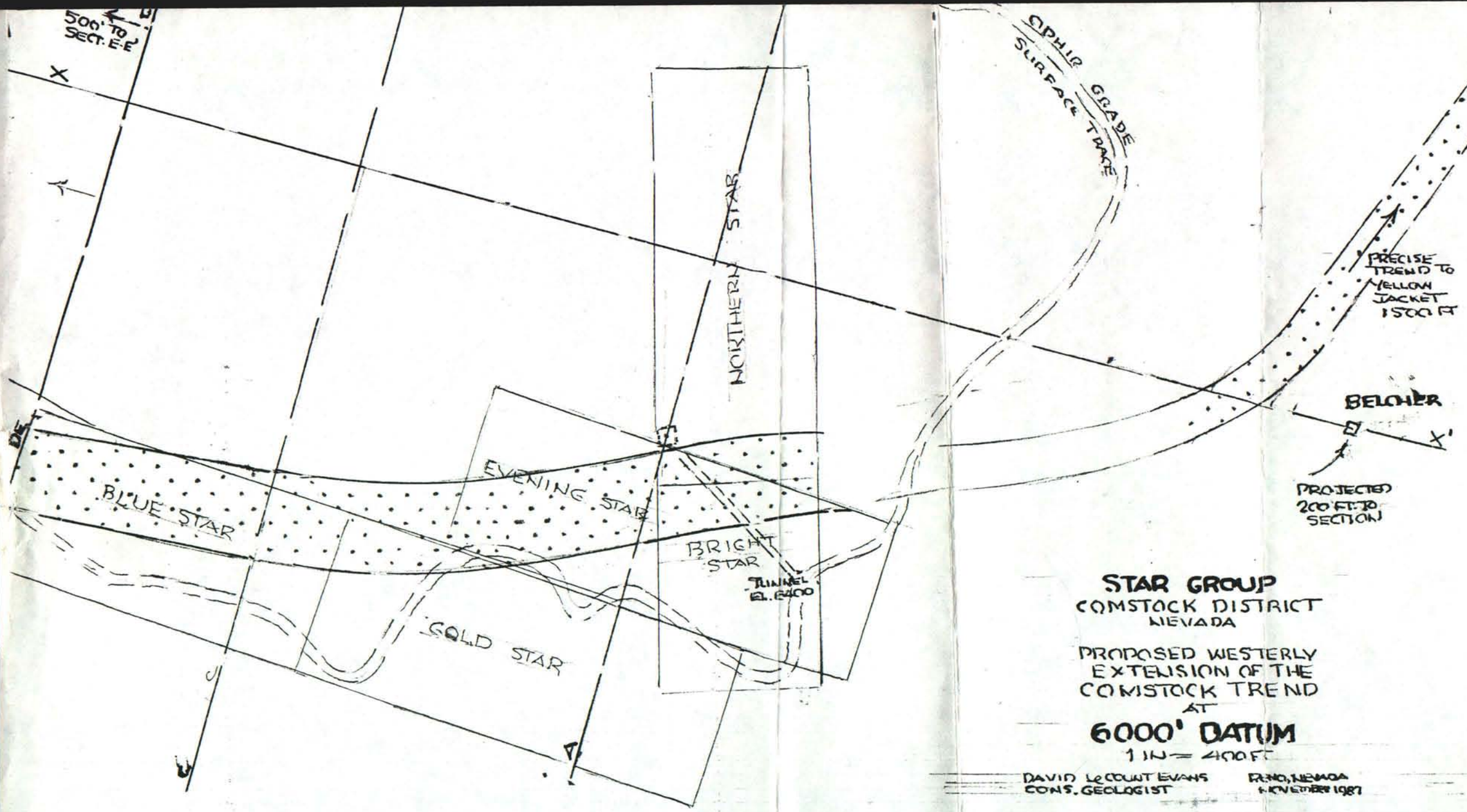
1" = 400'

DAVID LeCOUNT EVANS
CONSULTING GEOLOGIST

FILE
548

3/2/83
11/9/87

* AT 6850 FEET AVERAGE DATUM



STAR GROUP
COMSTOCK DISTRICT
NEVADA

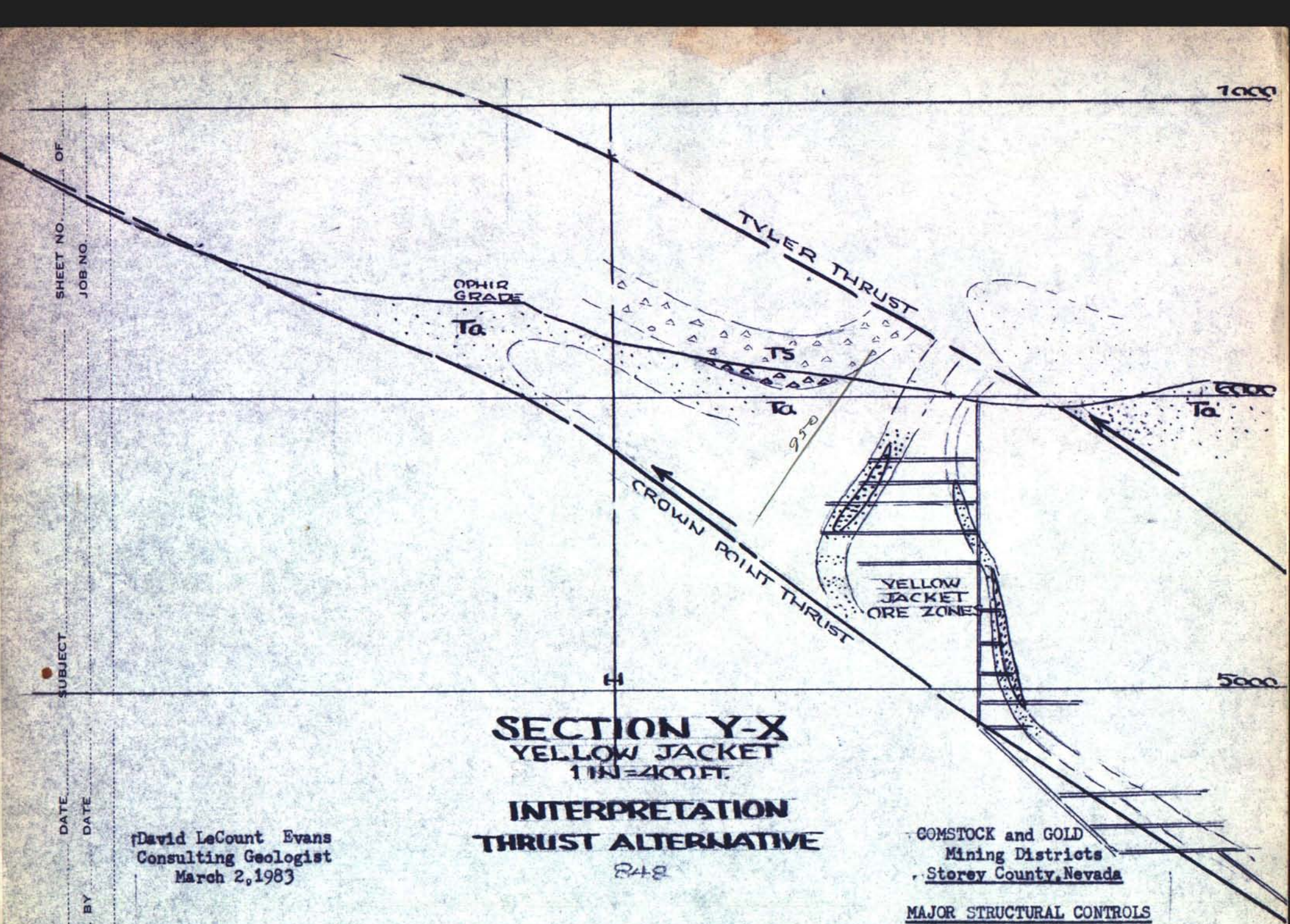
PROPOSED WESTERLY EXTENSION OF THE COMSTOCK TREND AT

6000' DATUM

1 IN = 400 FT

DAVID LeCOUNT EVANS
CONS. GEOLOGIST

RENO, NEVADA
NOVEMBER 1987



SECTION Y-X
YELLOW JACKET
1 IN = 400 FT.

INTERPRETATION
THRUST ALTERNATIVE

R48

David LeCount Evans
Consulting Geologist
March 2, 1983

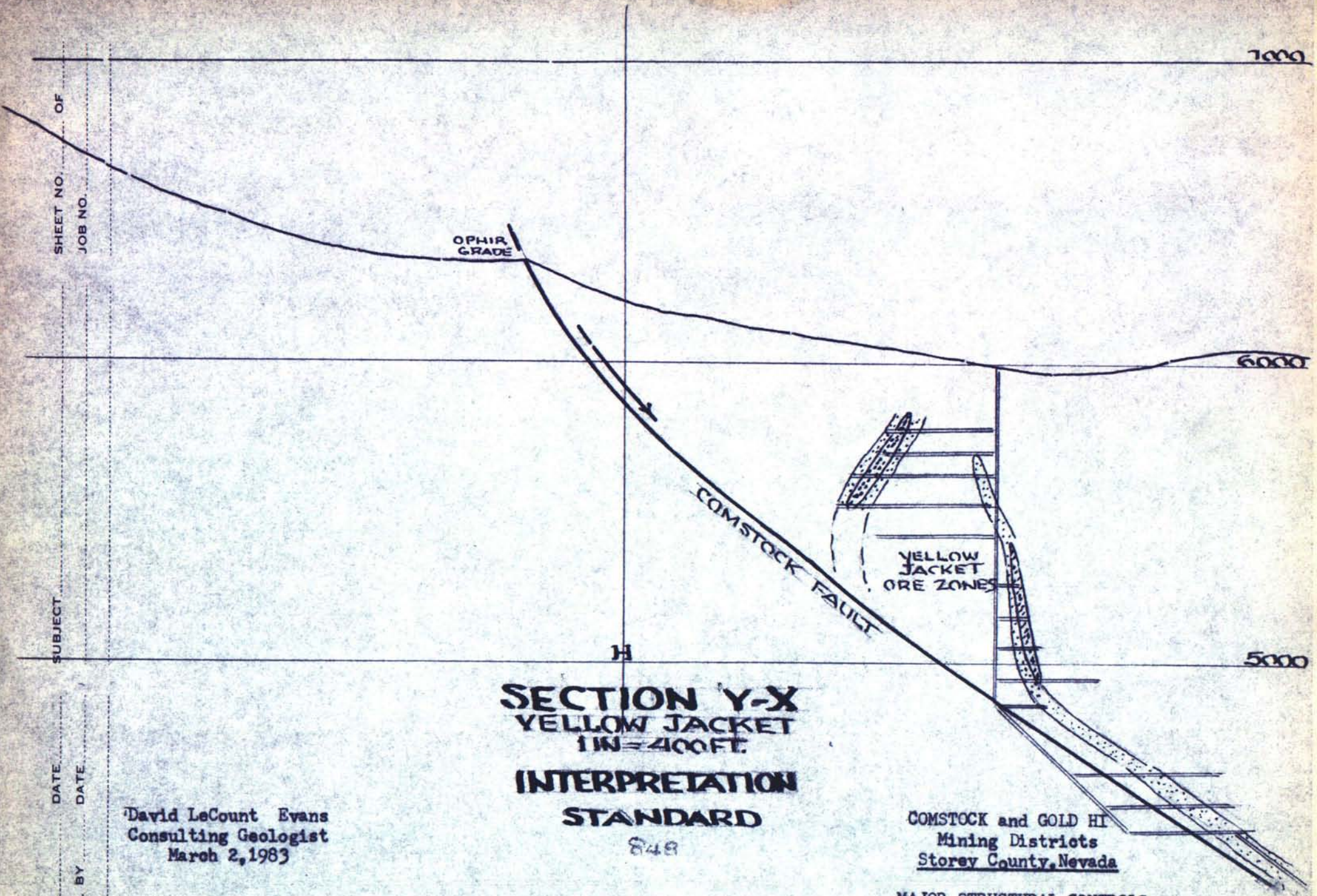
COMSTOCK and GOLD
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

IX-b

SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
BY ..... DATE .....
CHKD. BY ..... DATE .....



SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
BY ..... DATE .....
CHKD. BY ..... DATE .....

SECTION Y-X
YELLOW JACKET
1 IN = 400 FT.
INTERPRETATION
STANDARD

849

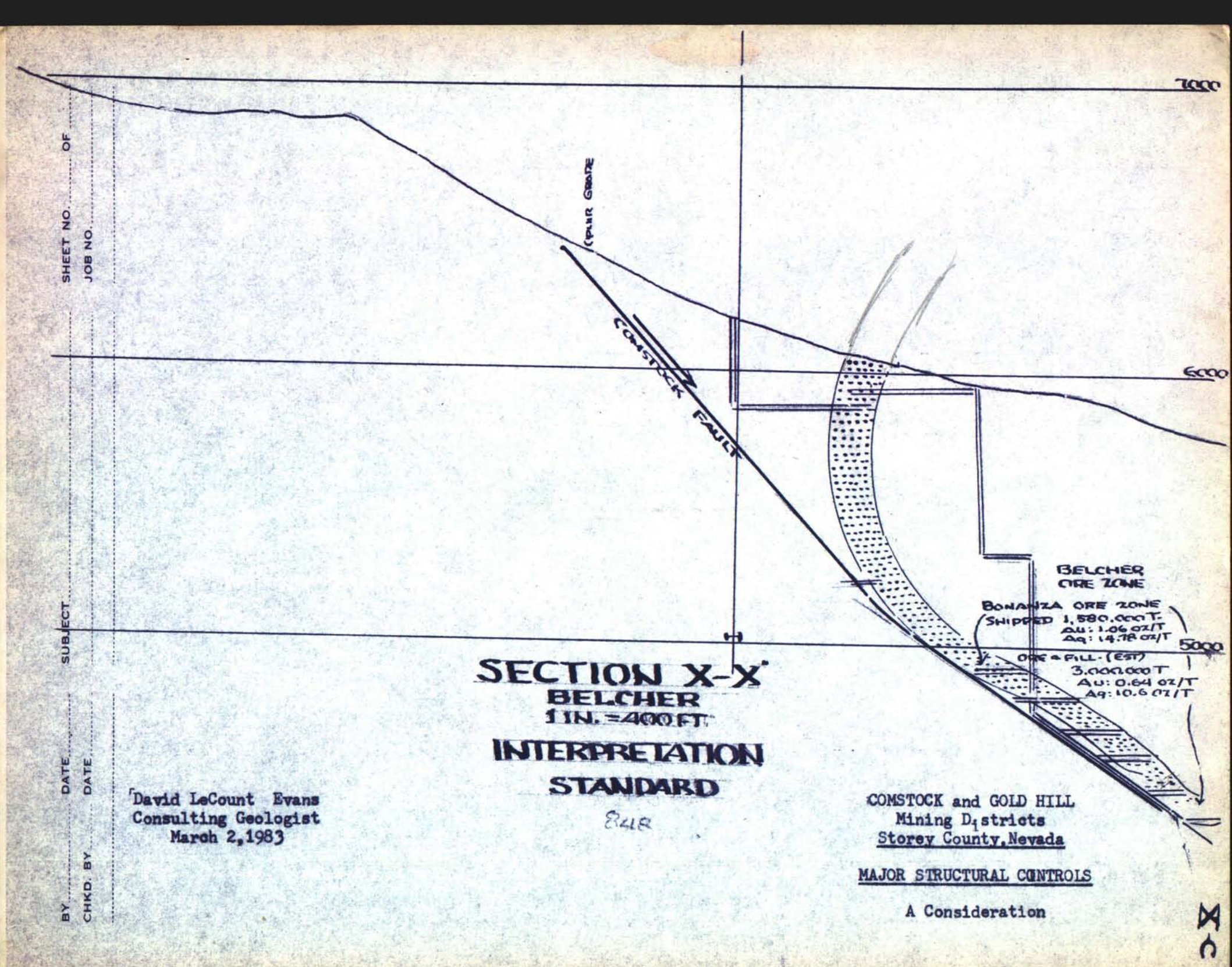
David LeCount Evans
Consulting Geologist
March 2, 1983

COMSTOCK and GOLD HI
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

IX-C



SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
DATE .....
BY .....
CHKD. BY .....
DATE .....

SECTION X-X'
BELCHER
1 IN. = 400 FT.
INTERPRETATION
STANDARD

RAR

David LeCount Evans
Consulting Geologist
March 2, 1983

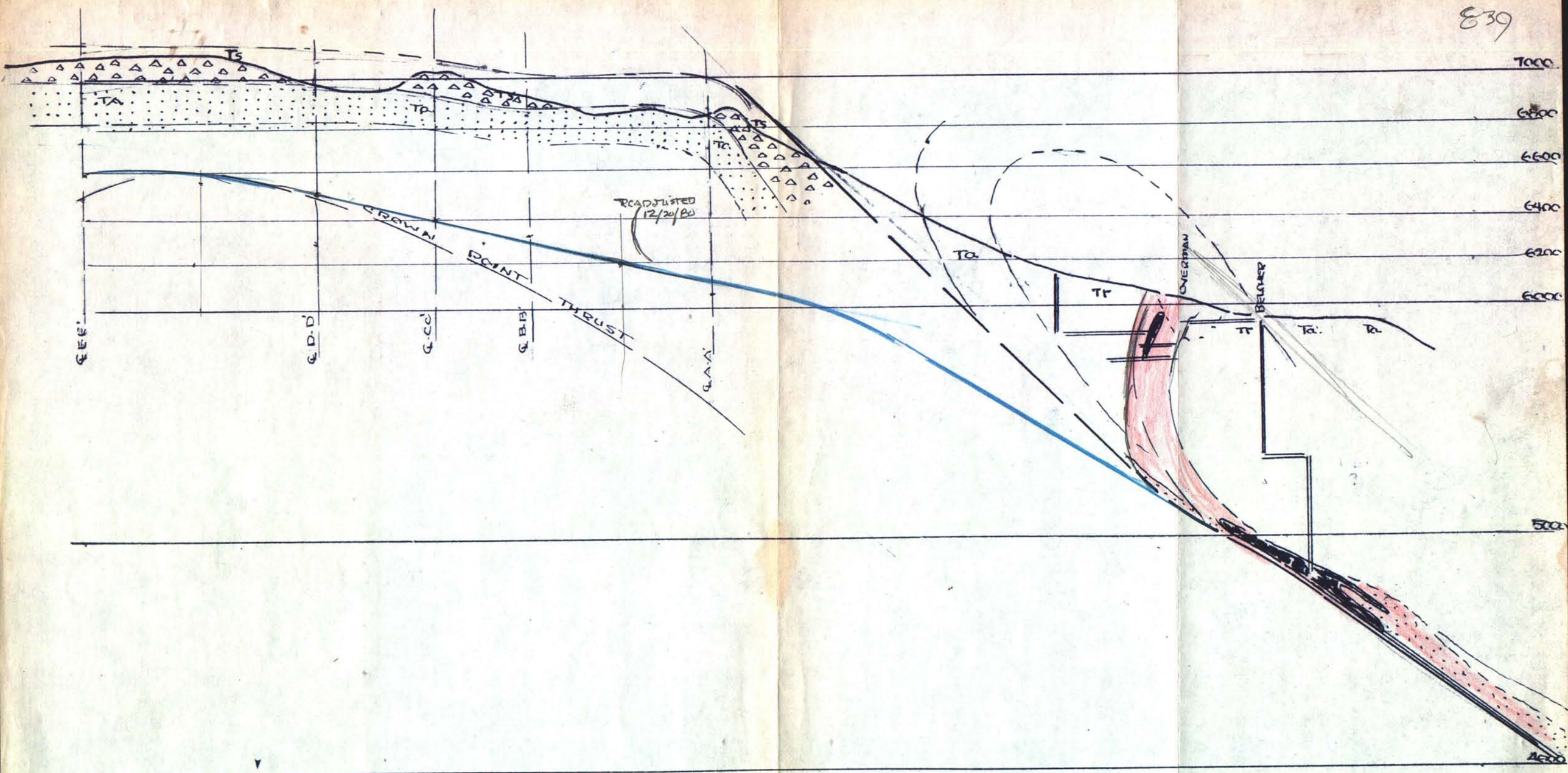
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

A
C

839



DAVID LeCOUNT EVANS
CONS. GEOL.
JULY - 1982.

STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

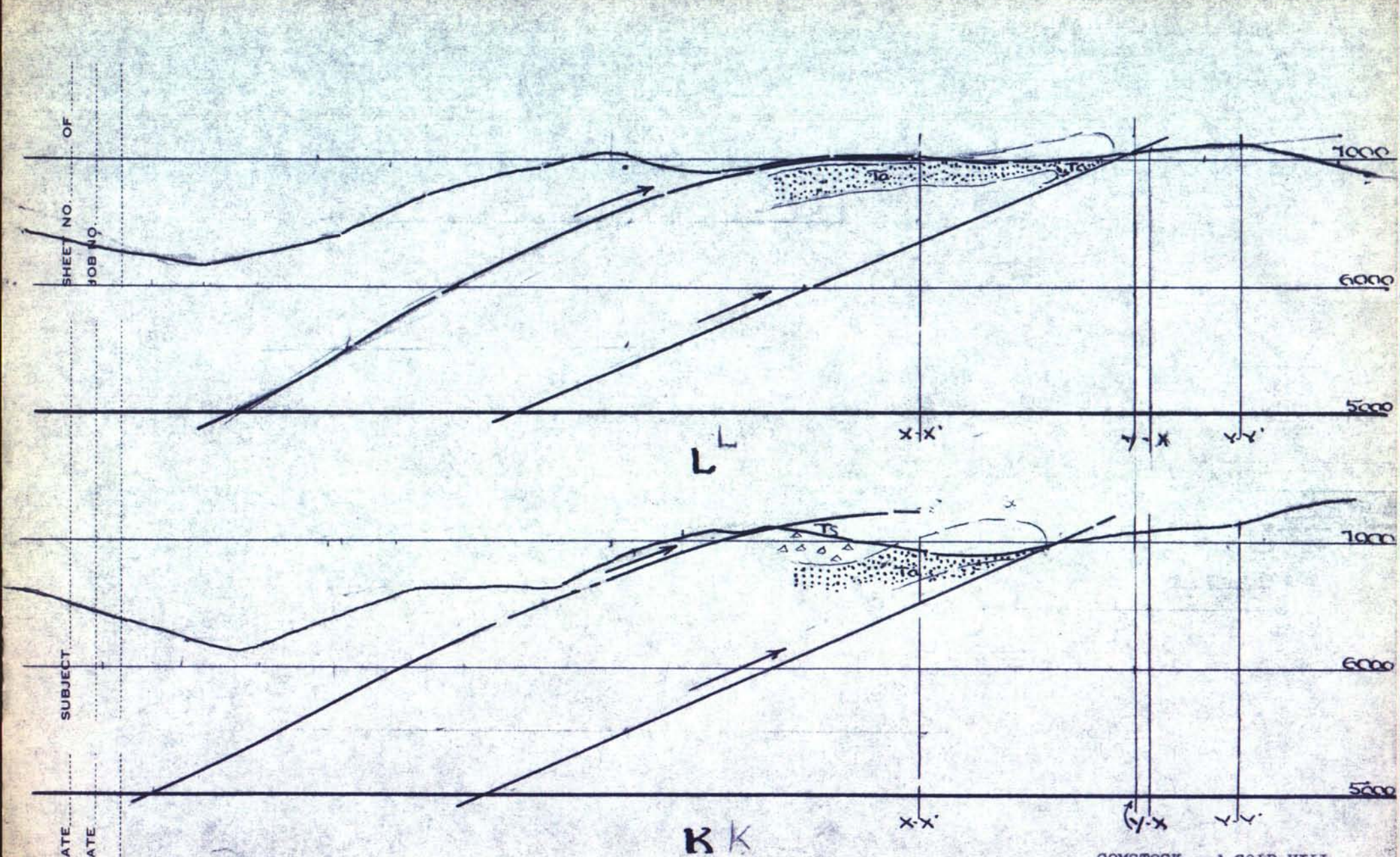
EXTENDED SECTION X-X'

1 IN. = 400 FT.

CHKD BY DATE

BY DATE SUBJECT JOB NO

SHEET NO OF



SHEET NO. OF

JOB NO.

SUBJECT

DATE

BY

CHKD. BY DATE

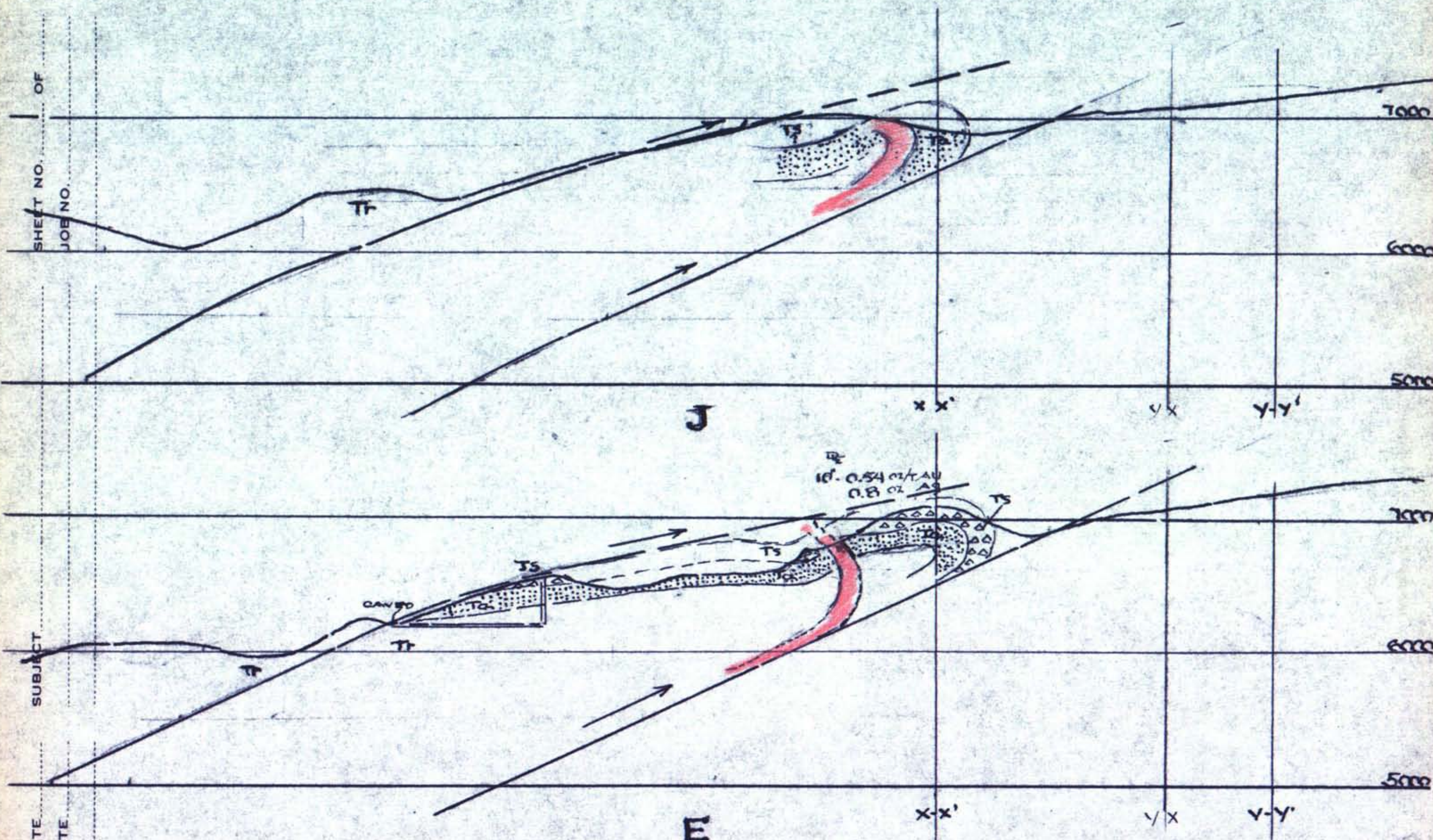
David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration
CROSS SECTIONS
1" = 1000'

SHEET NO. ___ OF ___
JOB NO.
SUBJECT



BY ___ DATE ___
CHKD. BY ___ DATE ___

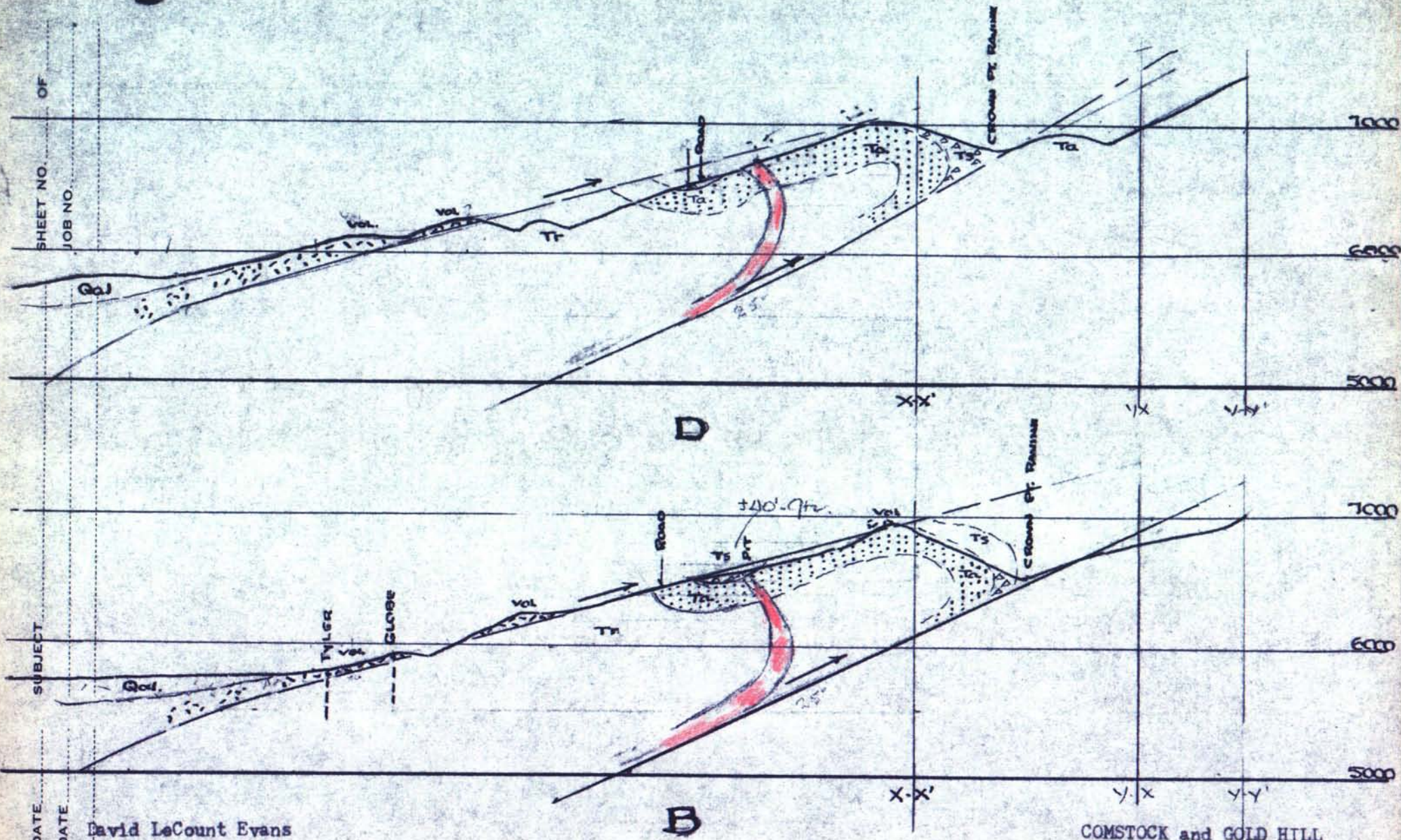
David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

CROSS SECTIONS
1" = 1000'



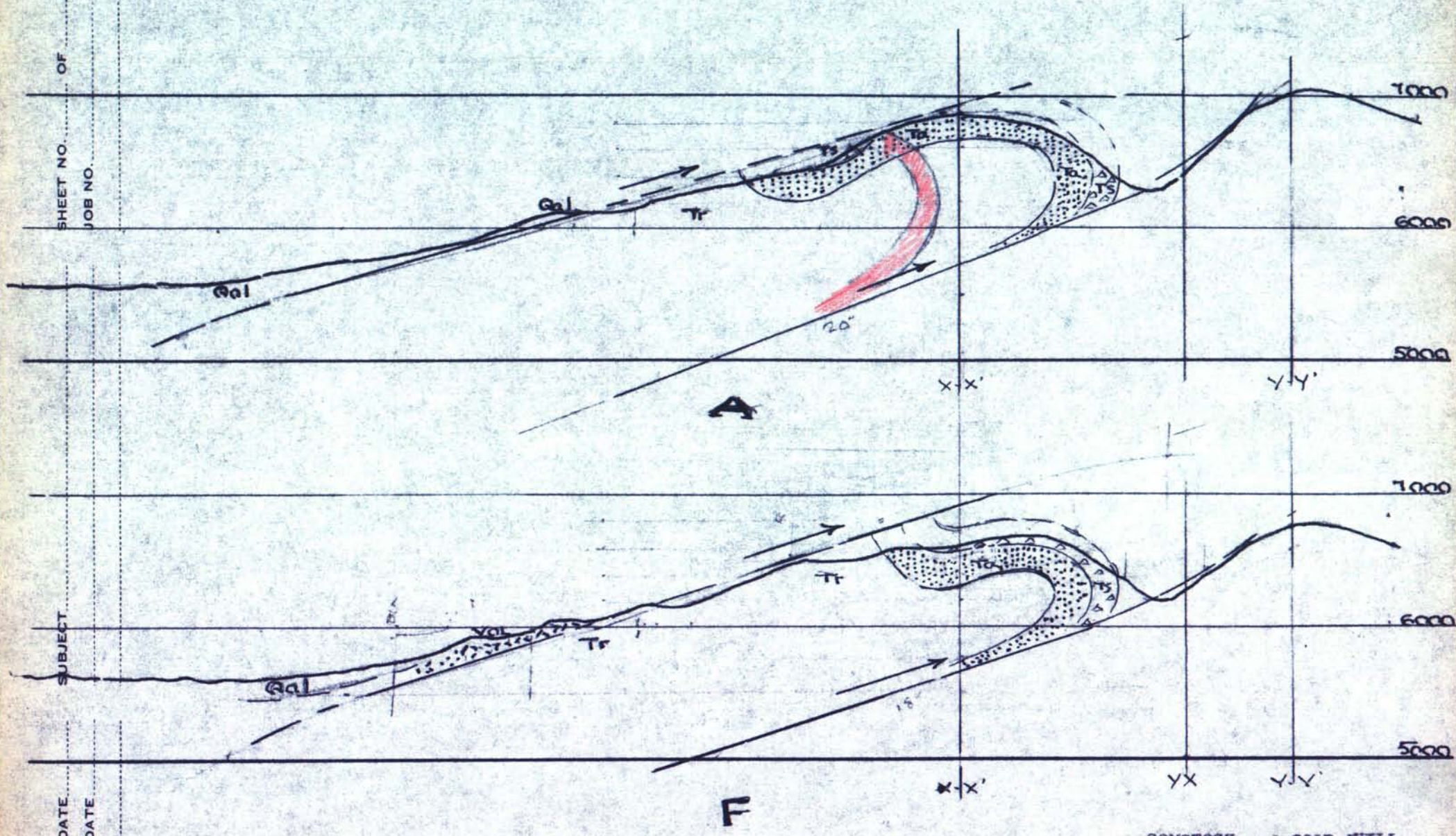
David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration
CROSS SECTIONS
1" = 1000'

XIII

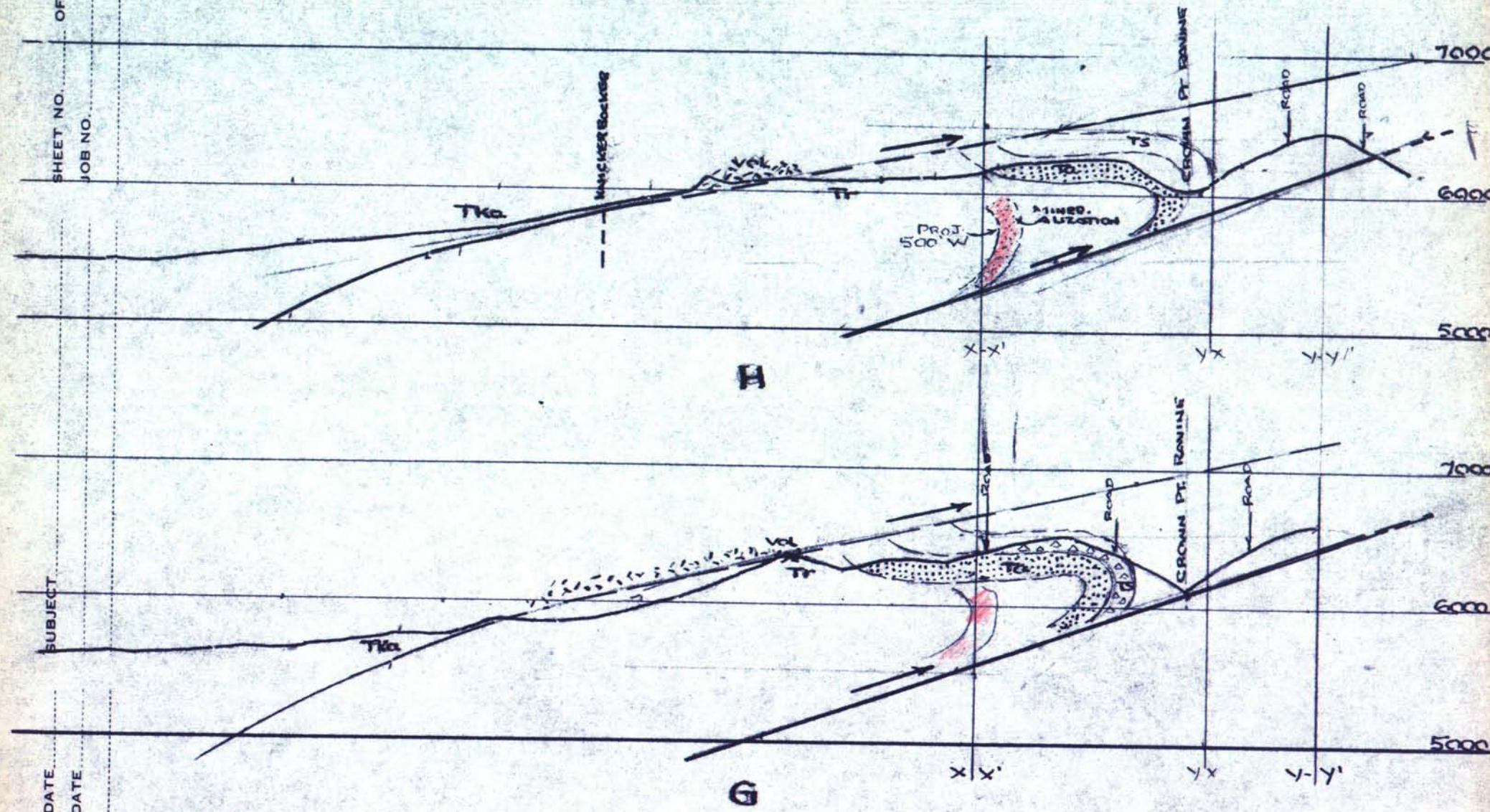


SHEET NO. OF
JOB NO.
SUBJECT
BY DATE
CHKD. BY DATE

David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada
MAJOR STRUCTURAL CONTROLS
A Consideration
CROSS SECTIONS
1" = 1000'

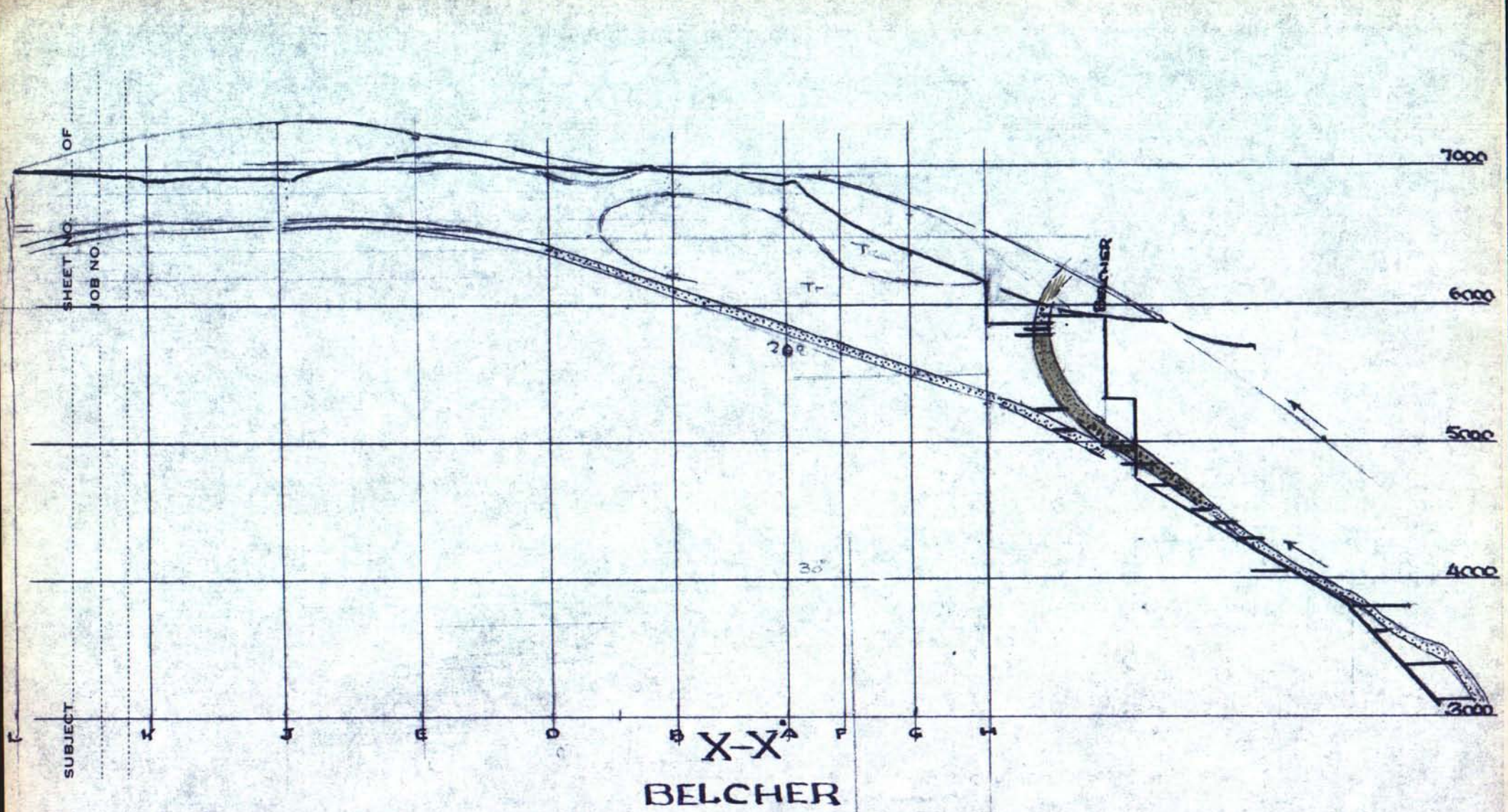
XII



David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada
MAJOR STRUCTURAL CONTROLS
A Consideration
CROSS SECTIONS
1" = 1000'

IX



SUBJECT

SHEET NO. OF

JOB NO.

BY DATE

CHKD. BY DATE

David LeCount Evans
Consulting Geologist
January 1983

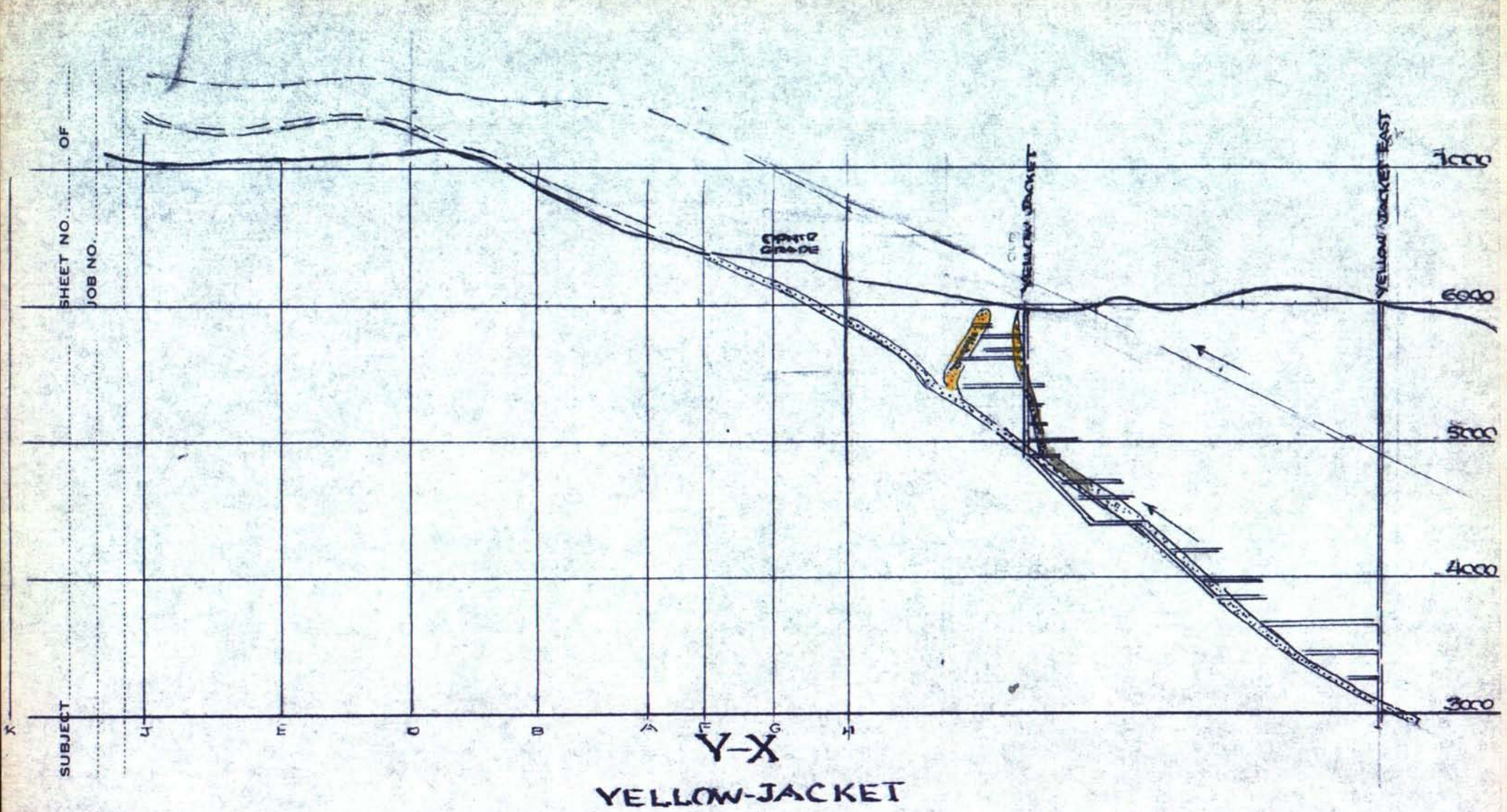
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

CROSS SECTIONS

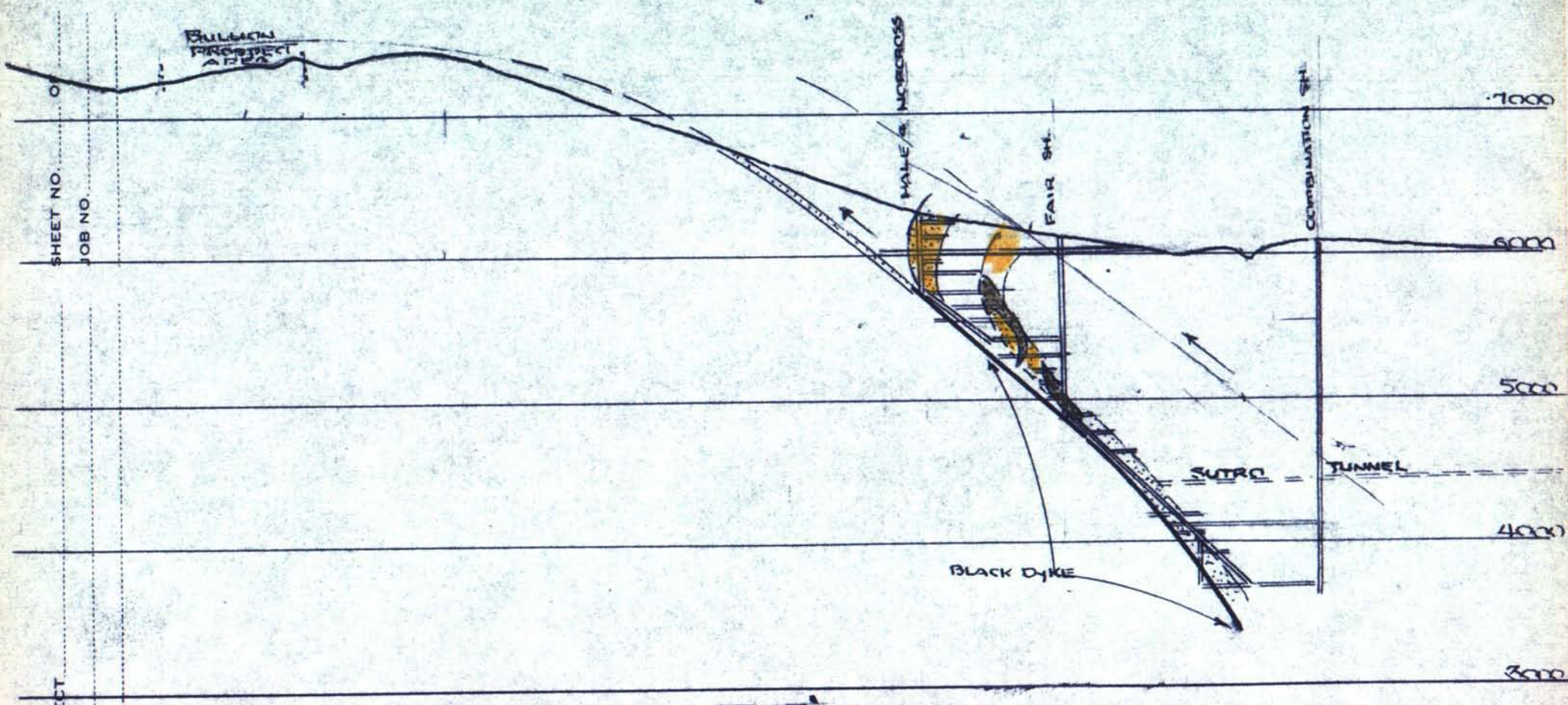
1" = 1000'



David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada
MAJOR STRUCTURAL CONTROLS
A Consideration
CROSS SECTIONS
1" = 1000'

XI



SHEET NO. 0

JOB NO

SUBJECT

DATE

BY

CHKD. BY

DATE

Z-Z'

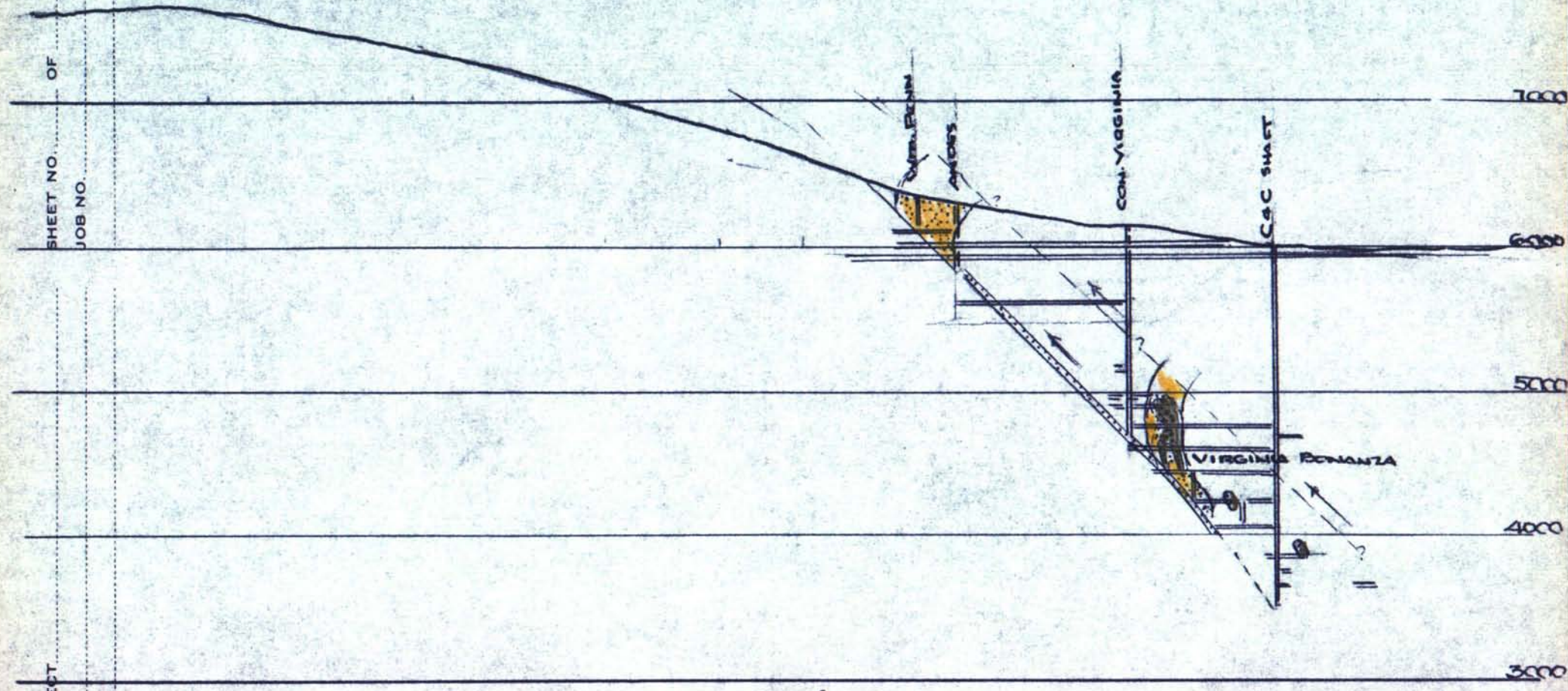
HALE-NORCROSS

David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS
A Consideration
CROSS SECTIONS
1" = 1000'

VIII



W-W'

CON-VIRGINIA

SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
BY ..... DATE .....
CHKD. BY ..... DATE .....

David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration
CROSS SECTIONS
1" = 1000'

XII

VI

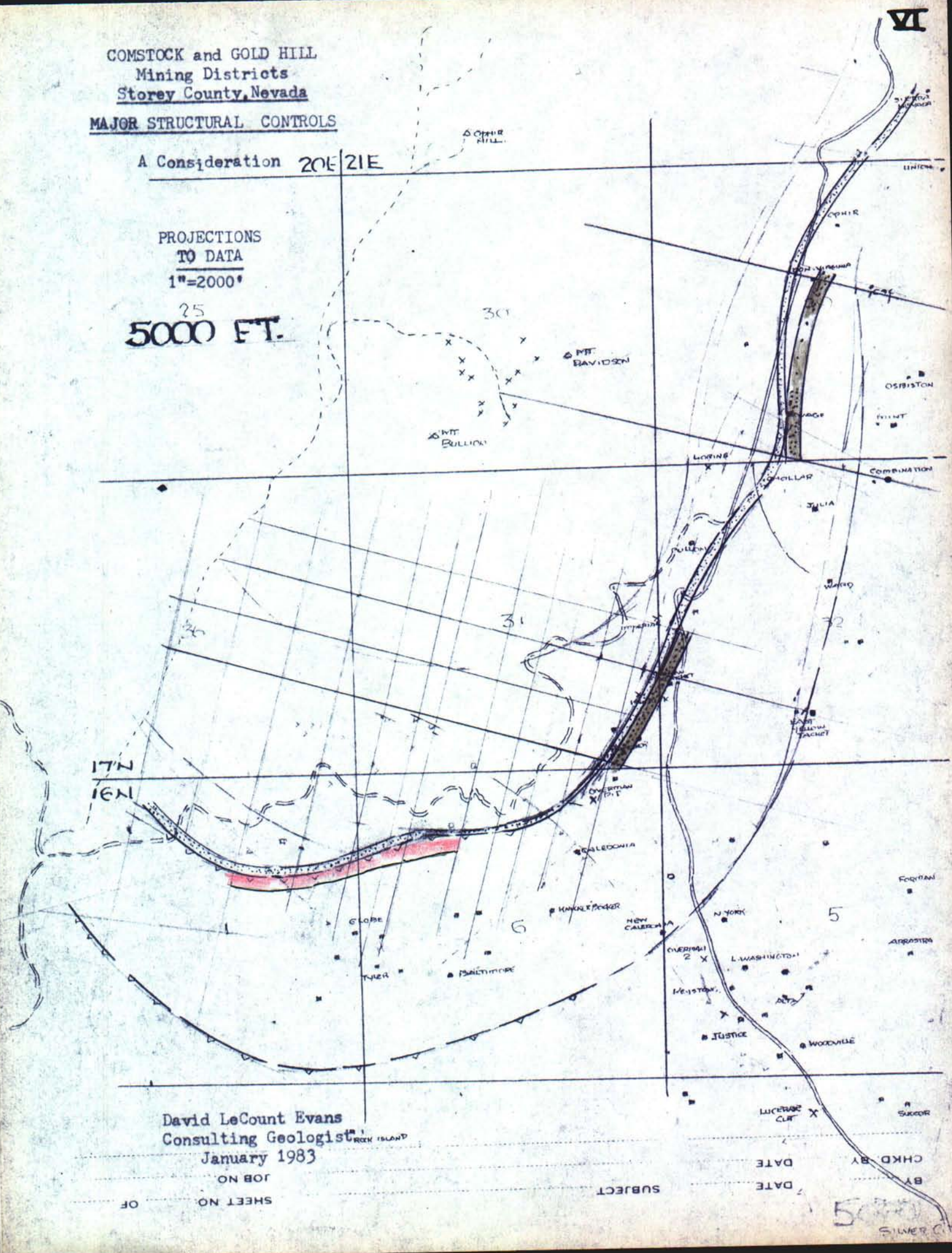
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1"=2000'

25
5000 FT.



David LeCount Evans
Consulting Geologist
January 1983

SHEET NO ... OF
JOB NO
SUBJECT
DATE
BY
CHKD BY
DATE

V

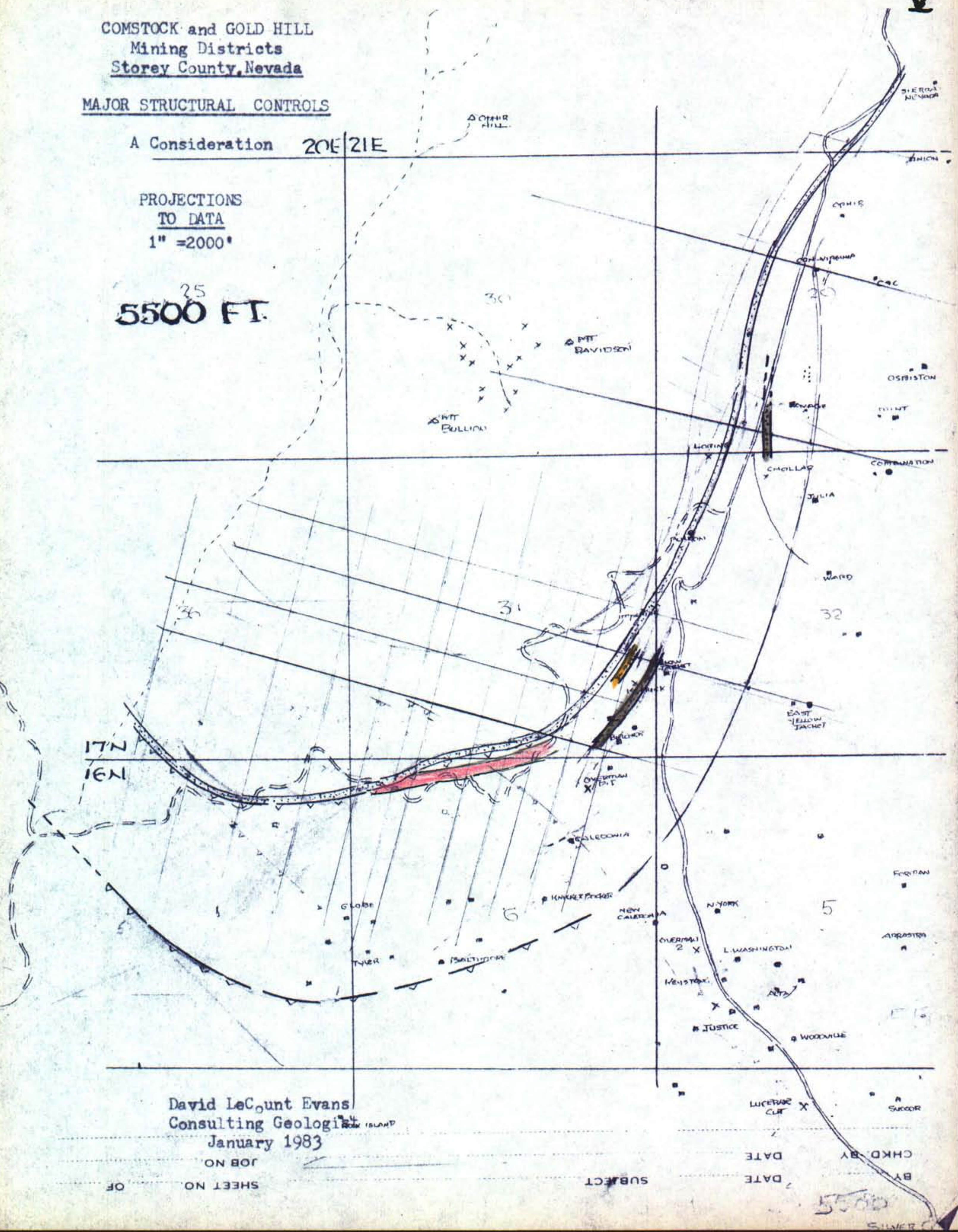
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" =2000'

5500 FT.



David LeCount Evans
Consulting Geologist
January 1983

IV

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

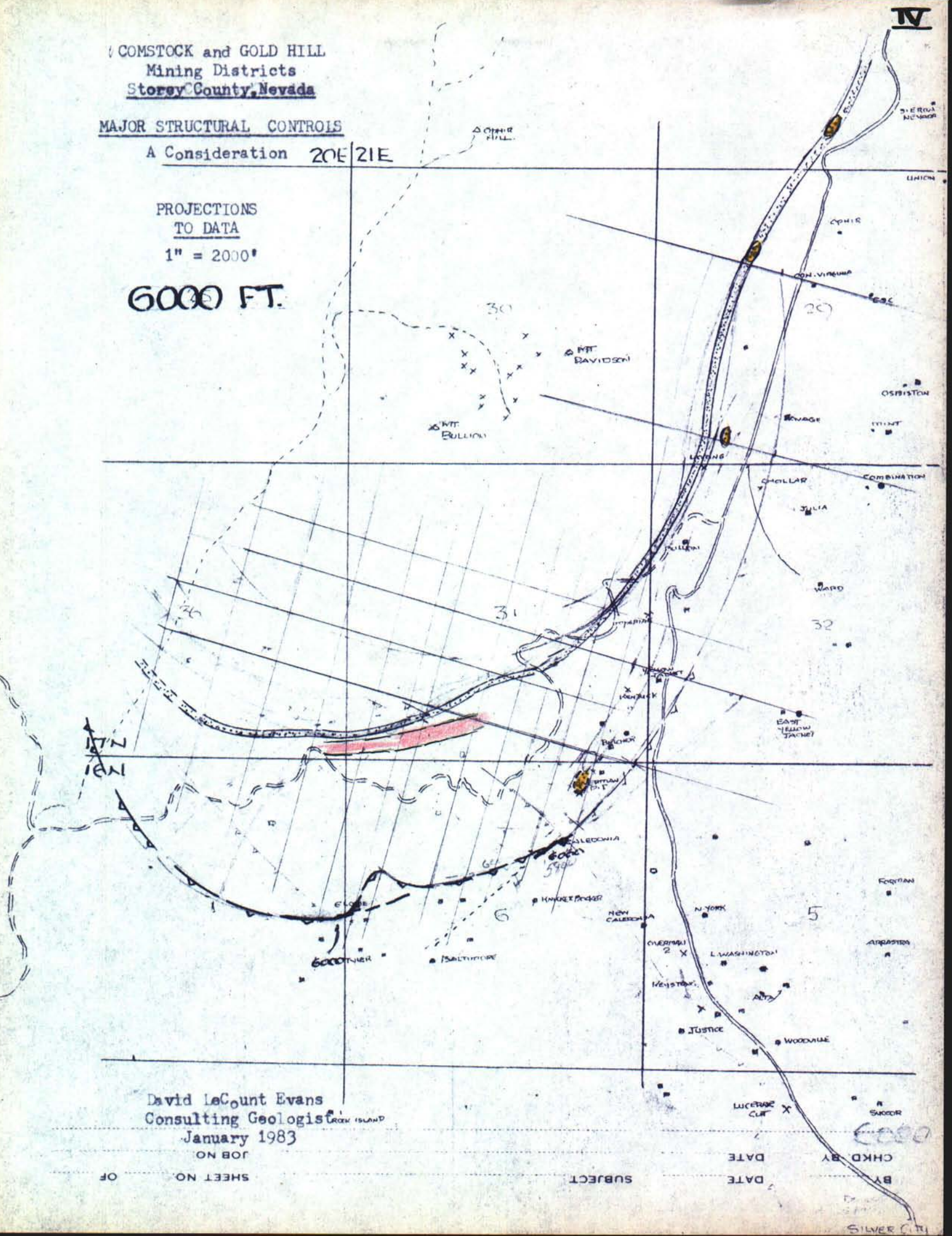
MAJOR STRUCTURAL CONTROLS

A Consideration 20E 21E

PROJECTIONS
TO DATA

1" = 2000'

6000 FT.



David LeCount Evans
Consulting Geologist
January 1983

JOB NO
SHEET NO. OF
SUBJECT
DATE
BY
DATE
CHKD BY

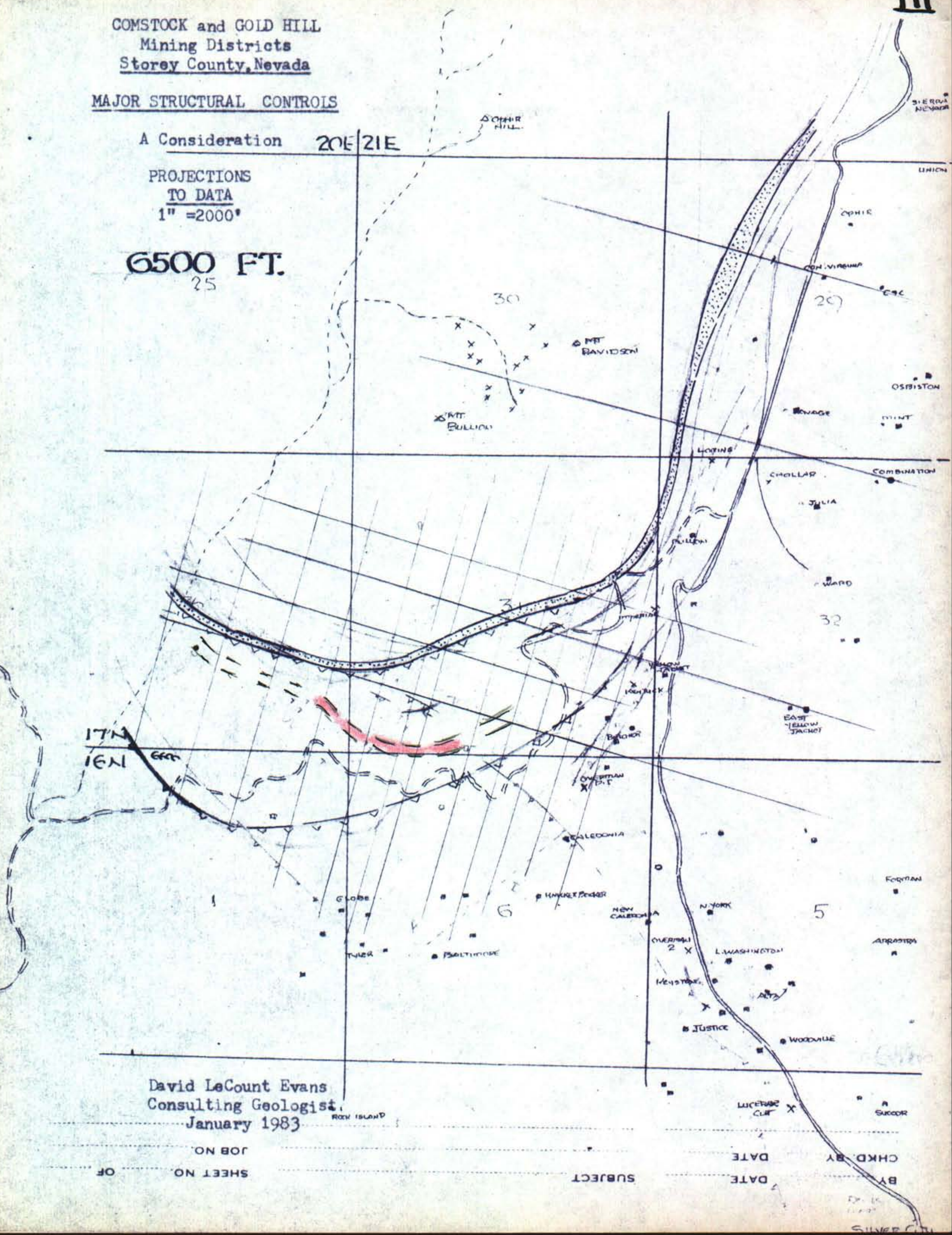
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" =2000'

6500 FT.



David LeCount Evans
Consulting Geologist.
January 1983

JOB NO.
SHEET NO. OF
SUBJECT
DATE
DATE
CHKD. BY
BY

II

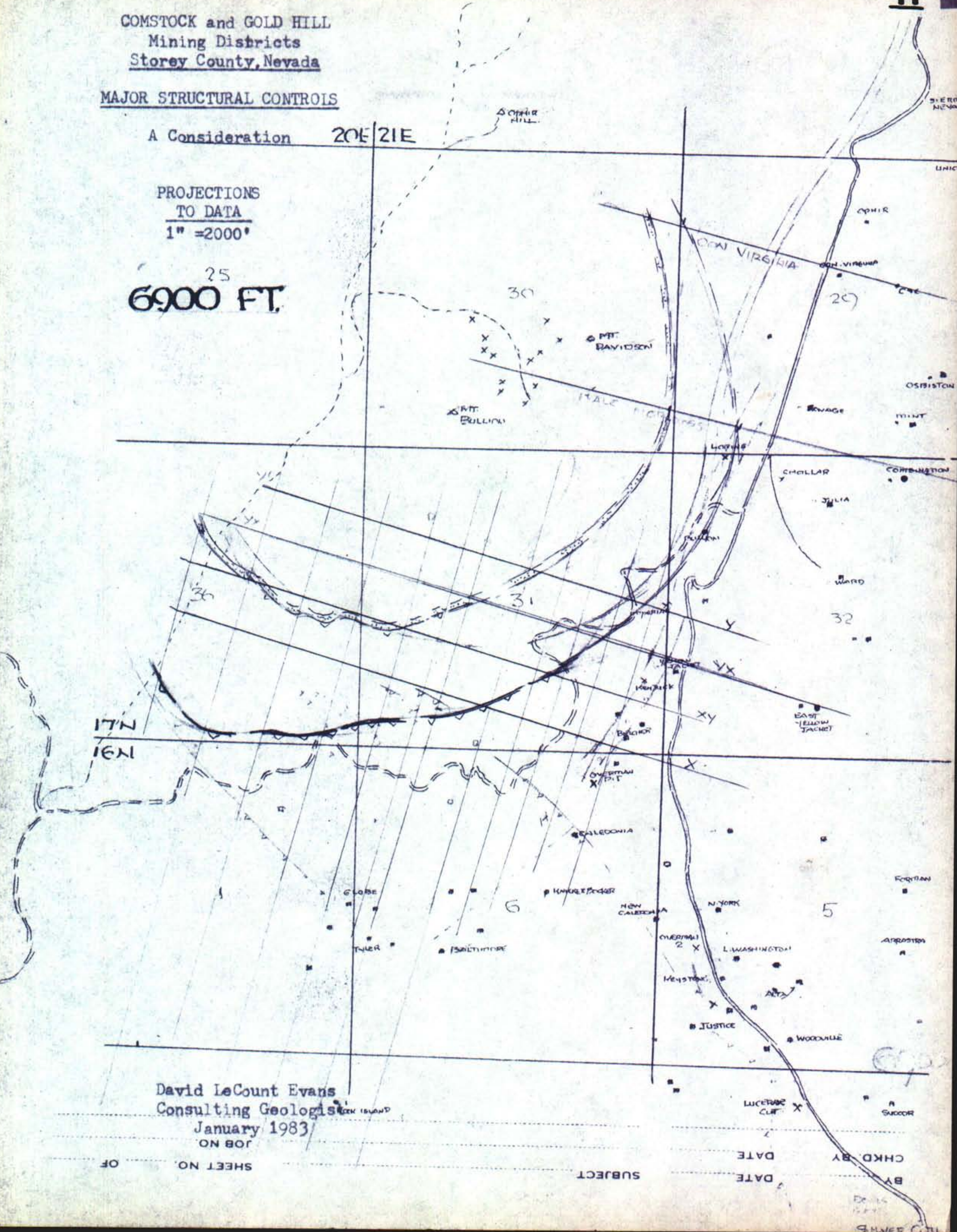
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" =2000'

6900 FT.



David LeCount Evans
Consulting Geologist
January 1983

I

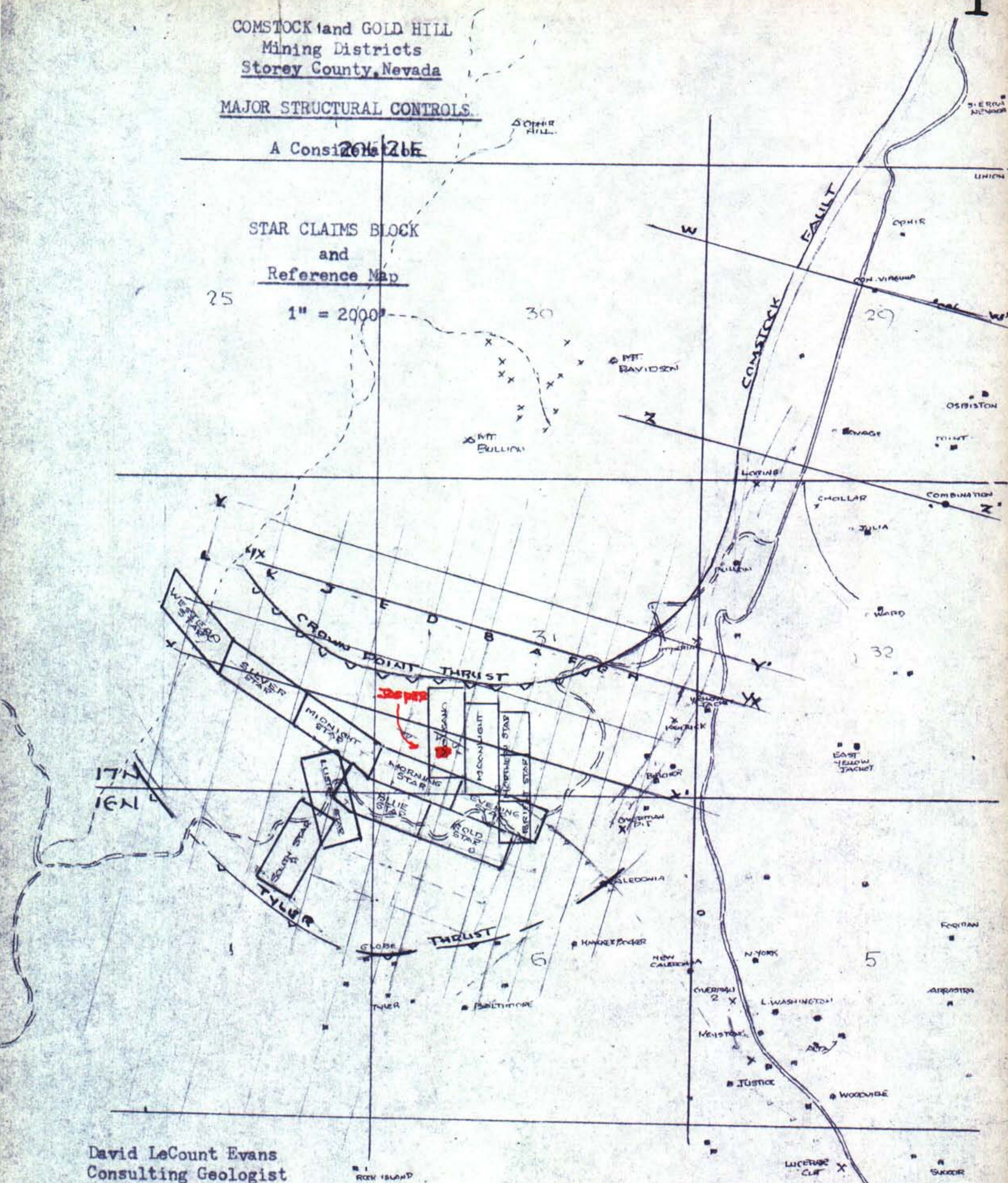
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

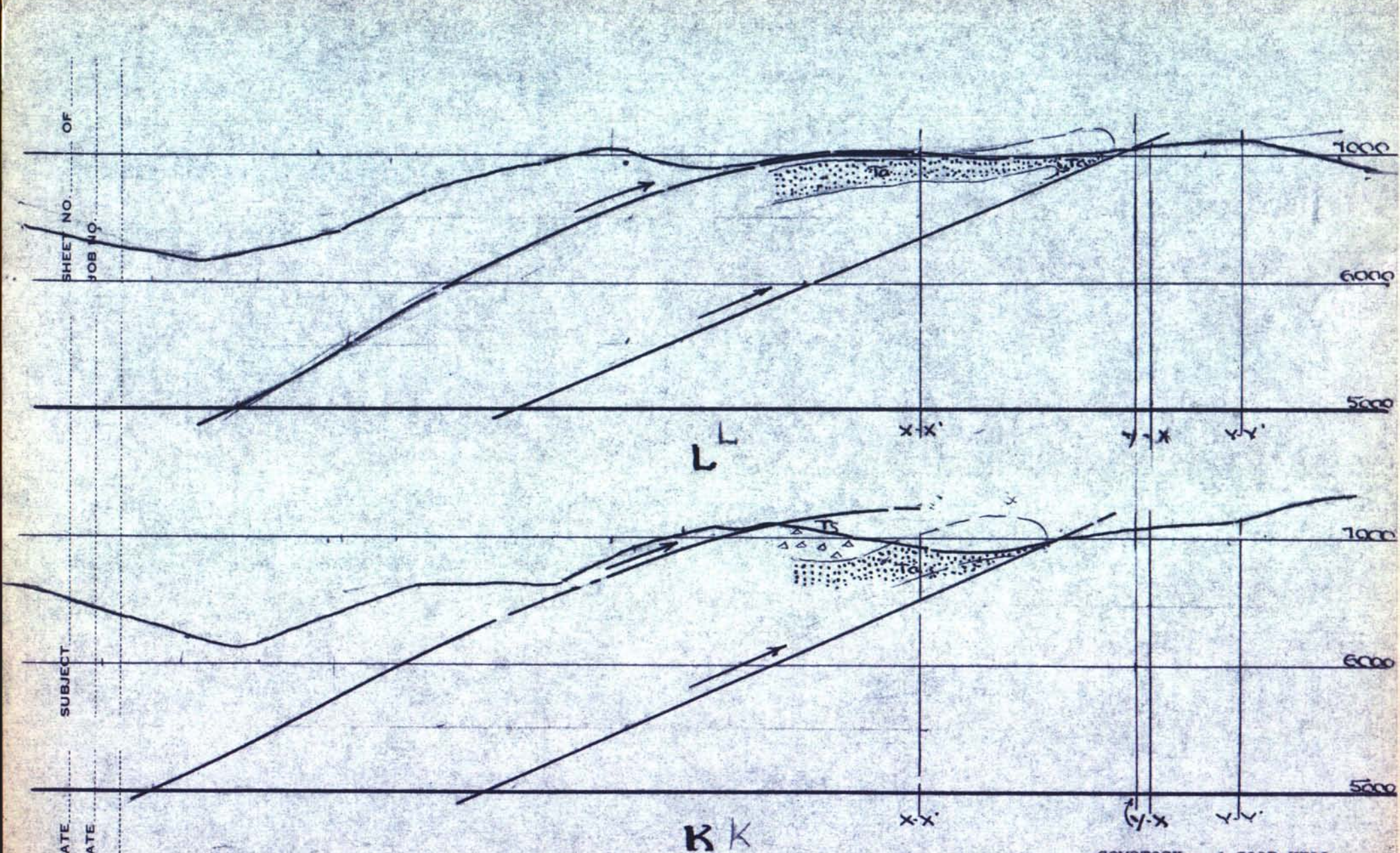
STAR CLAIMS BLOCK
and
Reference Map

1" = 2000'



David LeCount Evans
Consulting Geologist
January 1983

JOB NO
SHEET NO. OF
SUBJECT
DATE
BY
CHKD. BY



SHEET NO. OF

JOB NO.

SUBJECT

DATE

BY

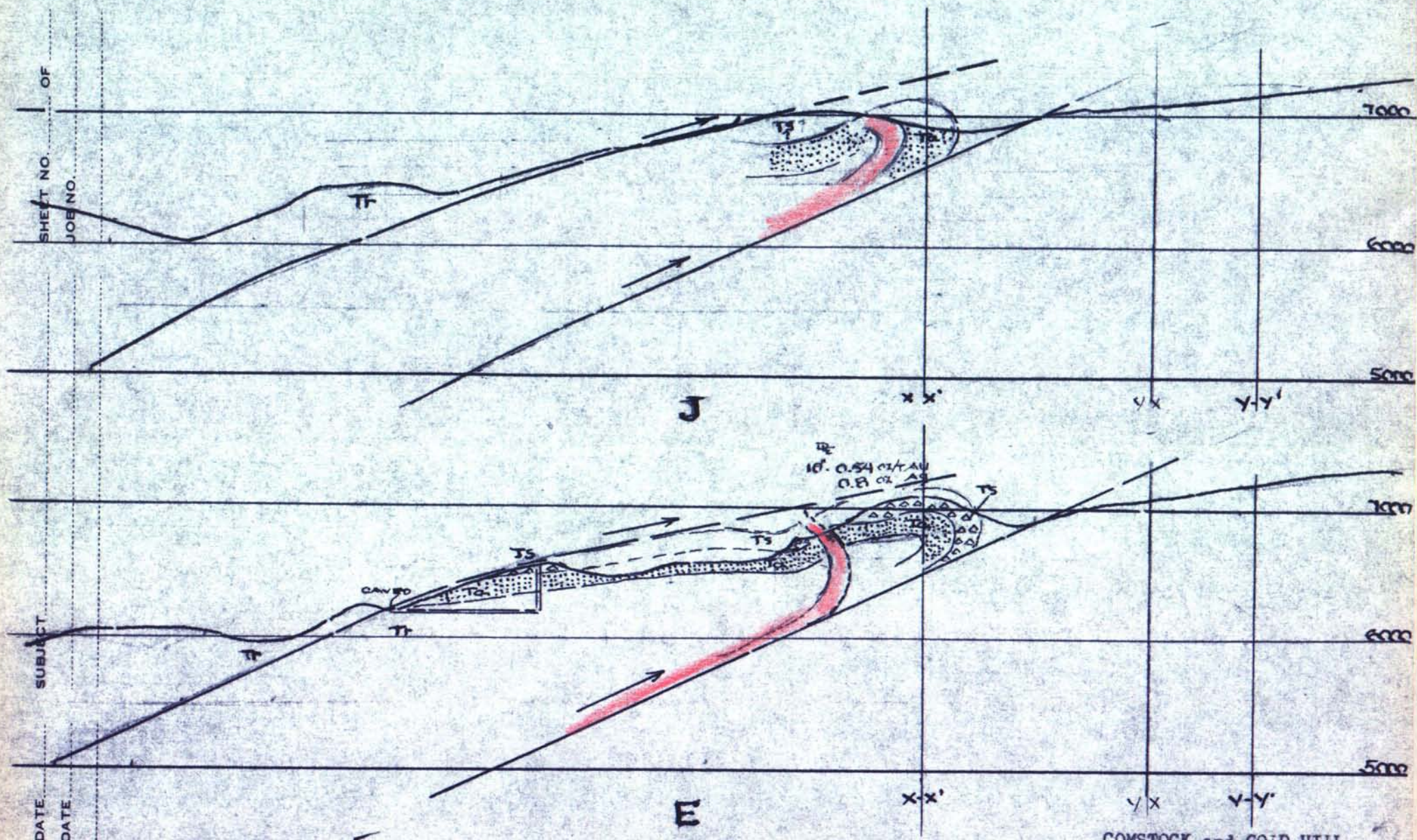
CHKD. BY DATE

David LeCount Evans
Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration
CROSS SECTIONS
1" = 1000'



SHEET NO. ____ OF ____
JOB NO.
SUBJECT
BY ____ DATE ____
CHKD. BY ____ DATE ____

David LeCount Evans
Consulting Geologist
January 1983

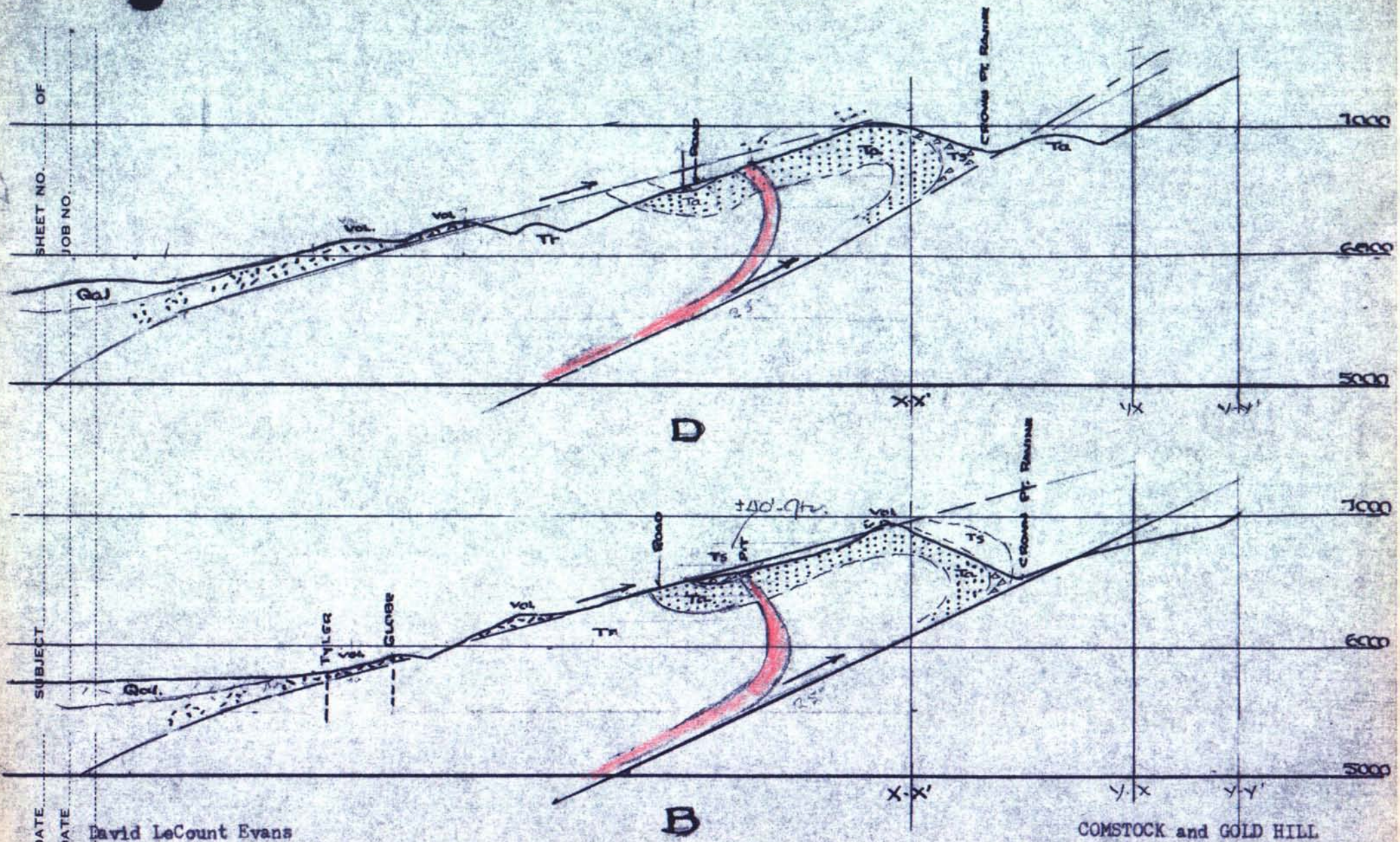
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

CROSS SECTIONS
1" = 1000'

XIV



SHEET NO. ..... OF .....

JOB NO. .....

SUBJECT .....

BY ..... DATE .....

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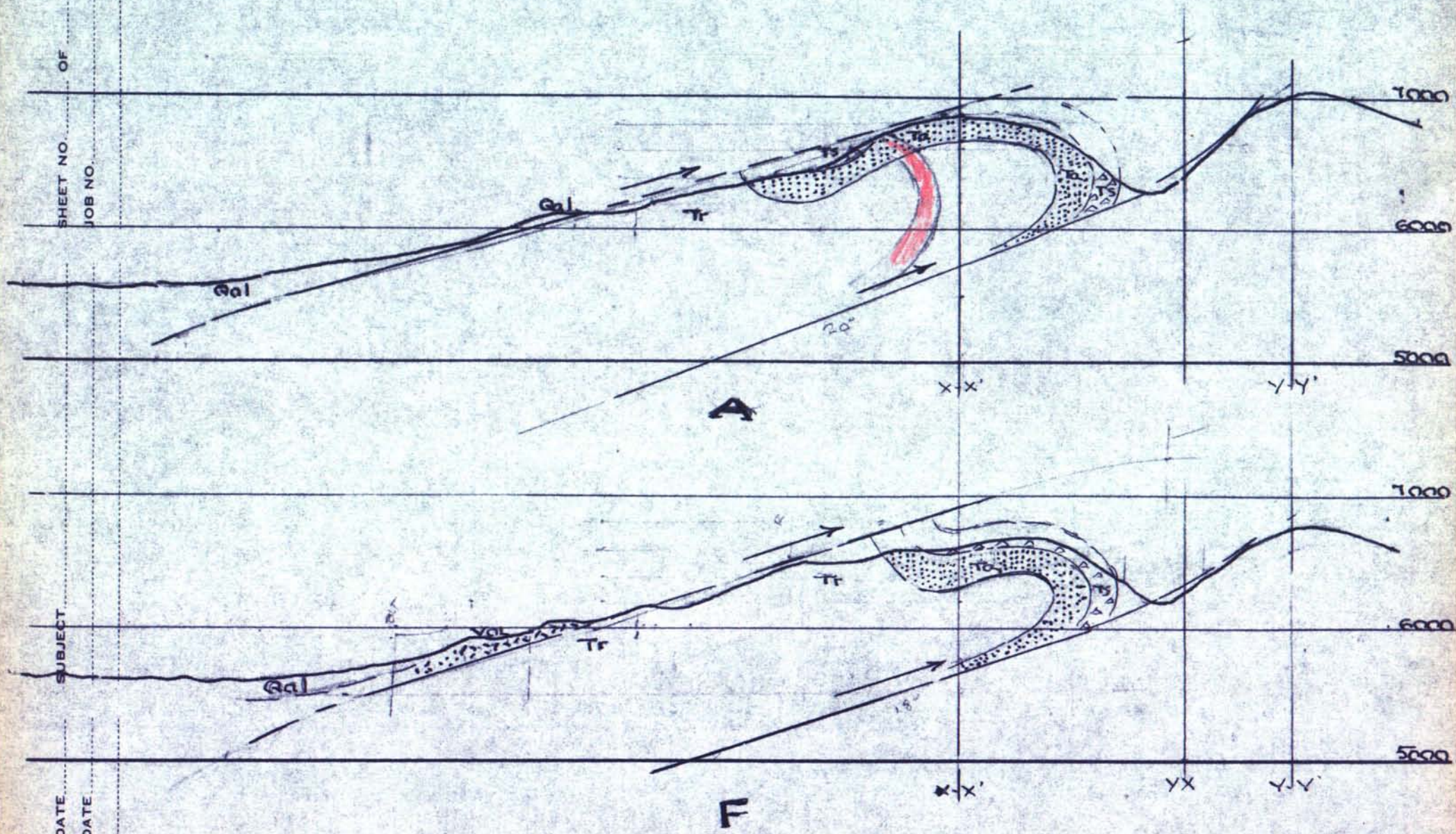
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration
CROSS SECTIONS
1" = 1000'

XIII



SHEET NO. ____ OF ____
JOB NO.
SUBJECT
BY ____ DATE ____
CHKD. BY ____ DATE ____

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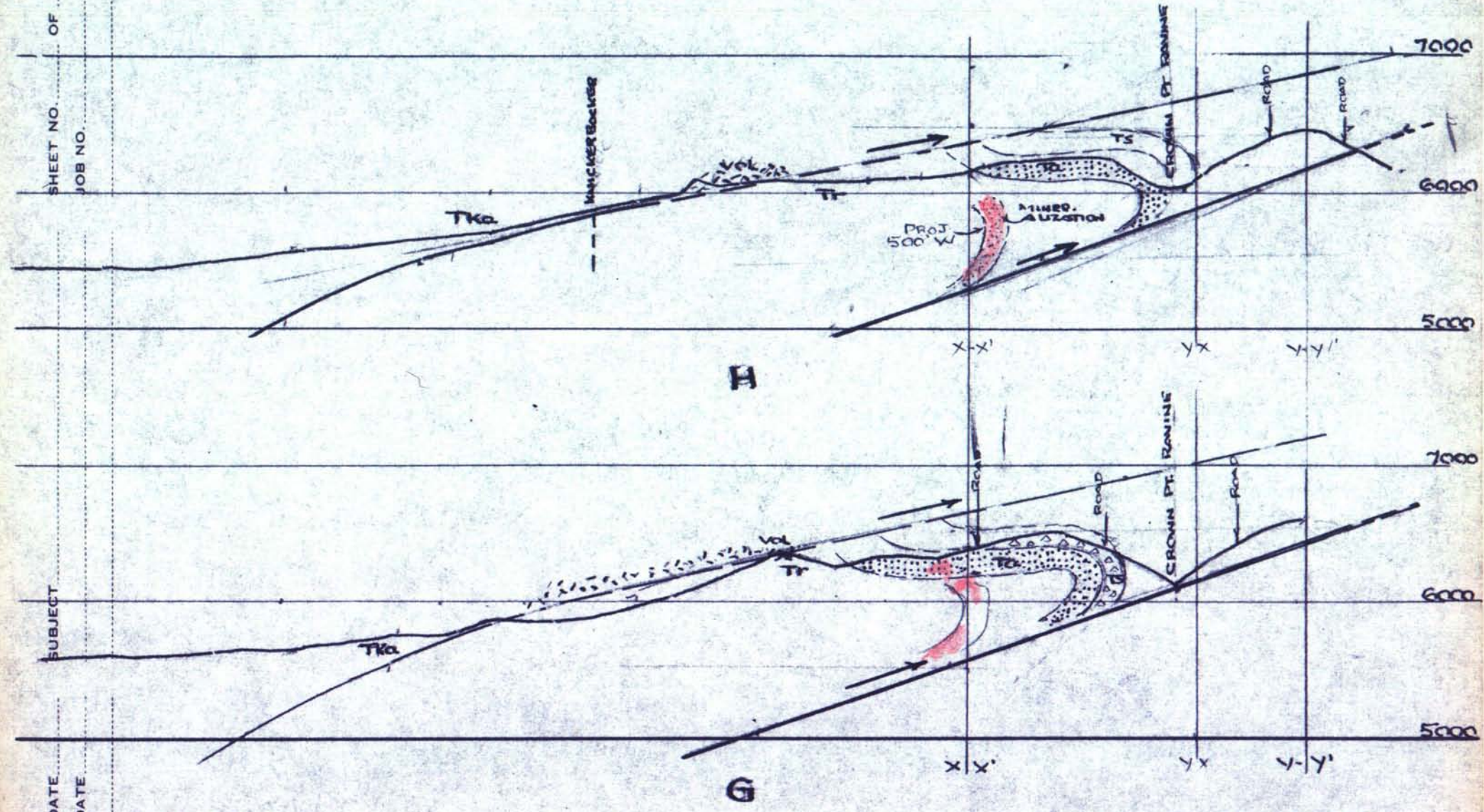
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada
MAJOR STRUCTURAL CONTROLS
A Consideration
CROSS SECTIONS
1" = 1000'

XII



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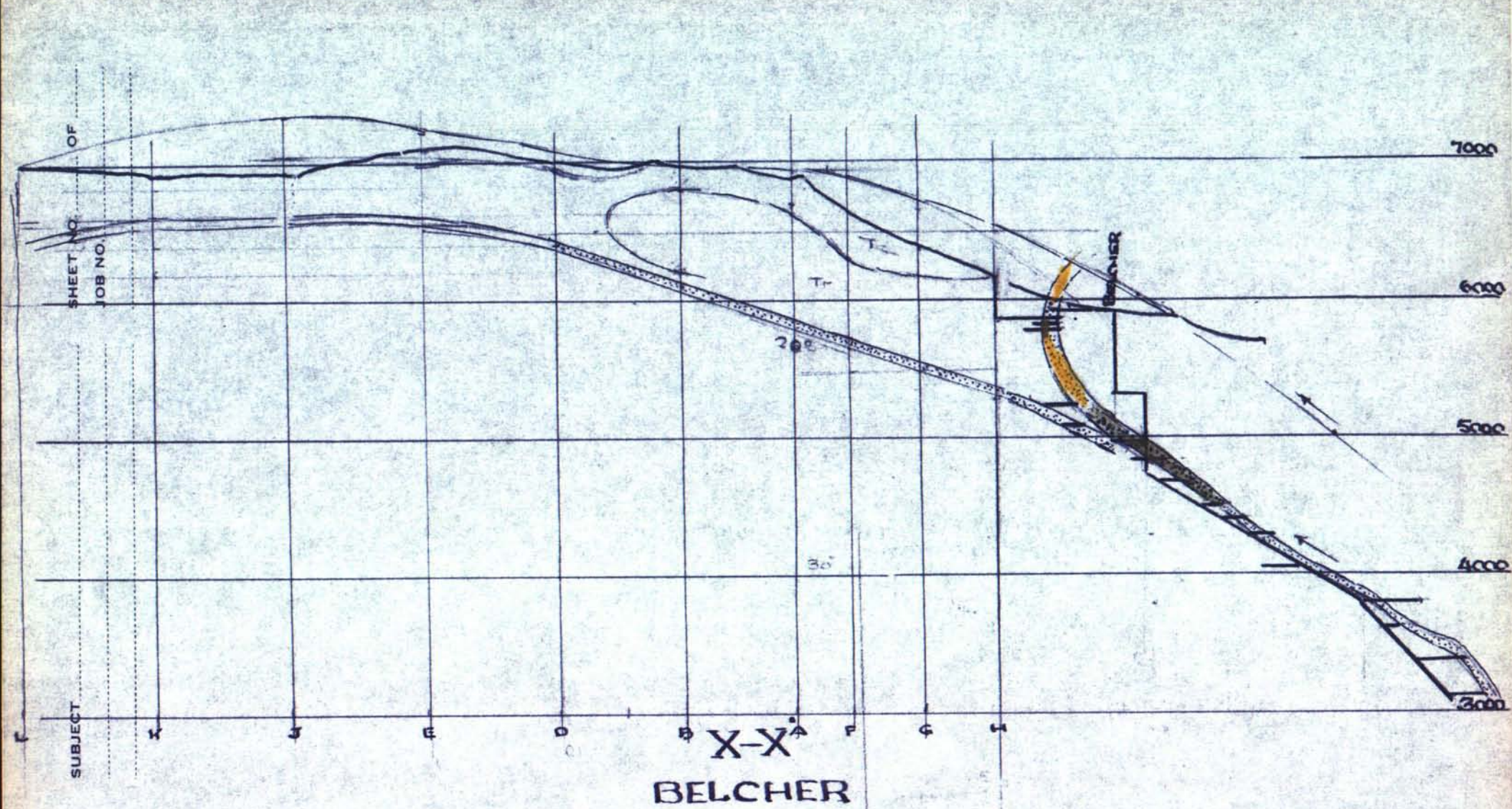
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

CROSS SECTIONS
1" = 1000'

IX



BELCHER

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SUBJECT

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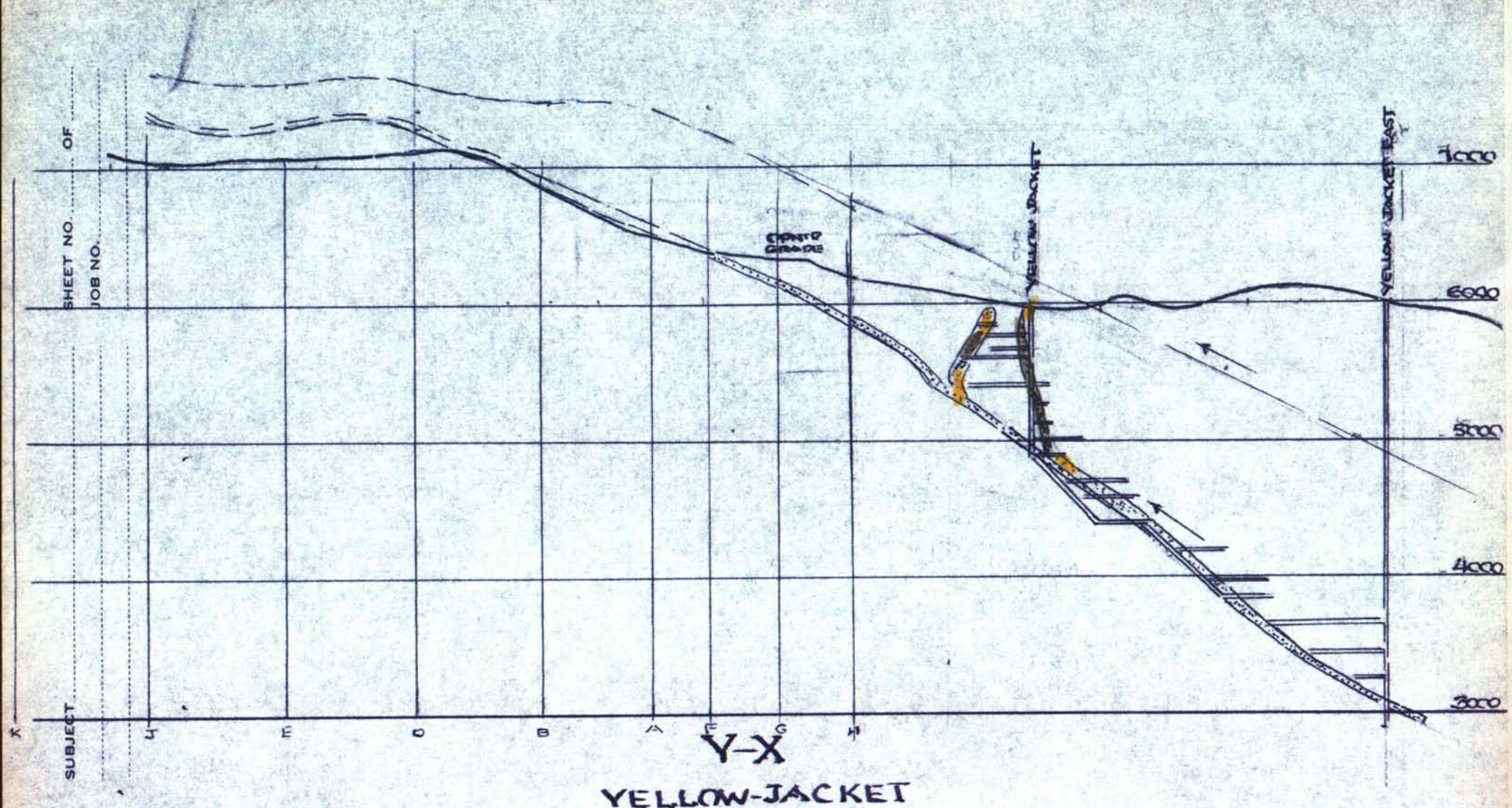
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

CROSS SECTIONS

1" = 1000'



Y–X

YELLOW-JACKET

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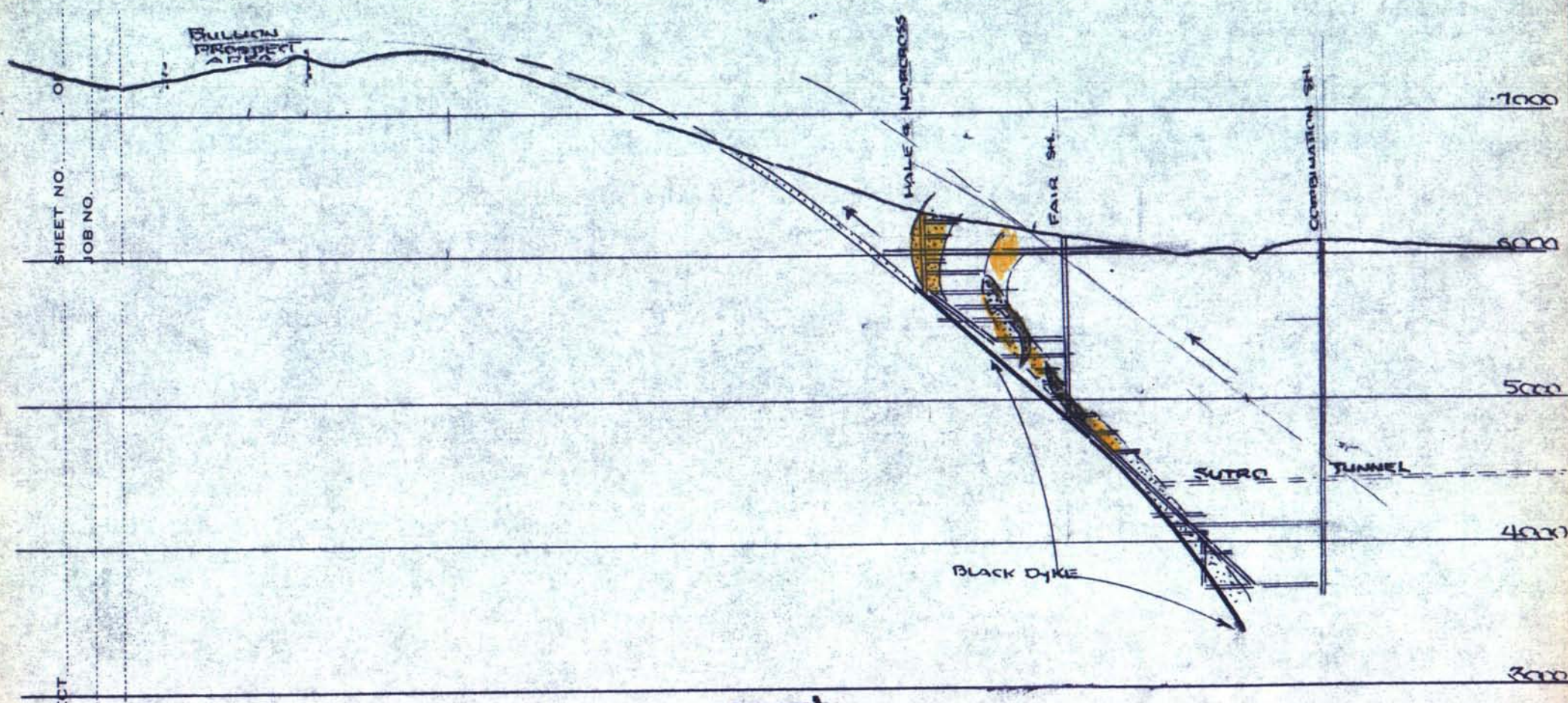
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

CROSS SECTIONS
1" = 1000'

XI



Z-Z'

HALE-NORCROSS

SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
BY ..... DATE .....
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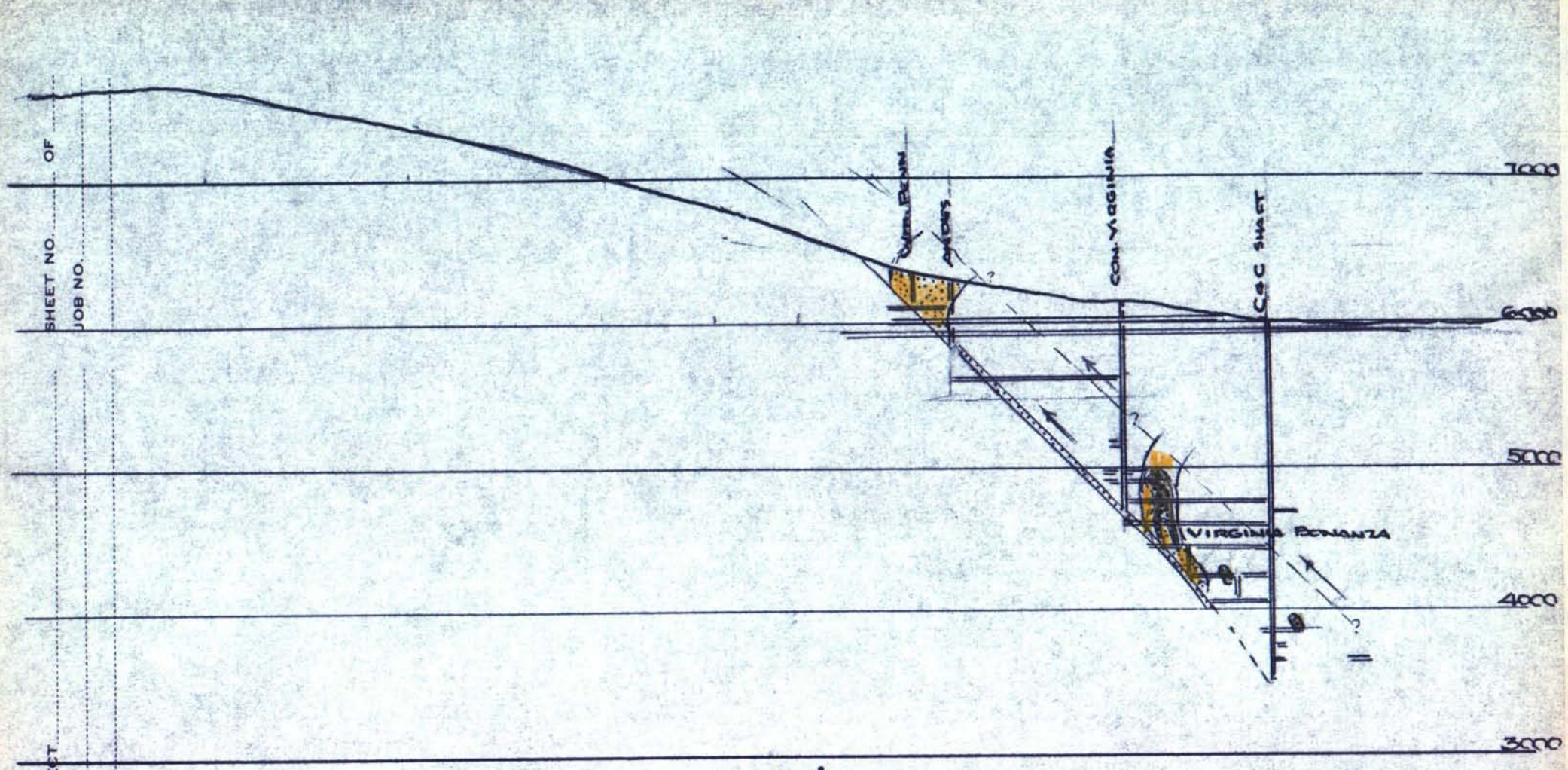
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS
A Consideration
CROSS SECTIONS
1" = 1000'

VIII



W-W'

CON-VIRGINIA

SHEET NO. ..... OF .....

JOB NO. .....

SUBJECT .....

DATE .....

BY ..... DATE .....

CHKD. BY .....

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Consulting Geologist
January 1983

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration
CROSS SECTIONS
1" = 1000'

VII

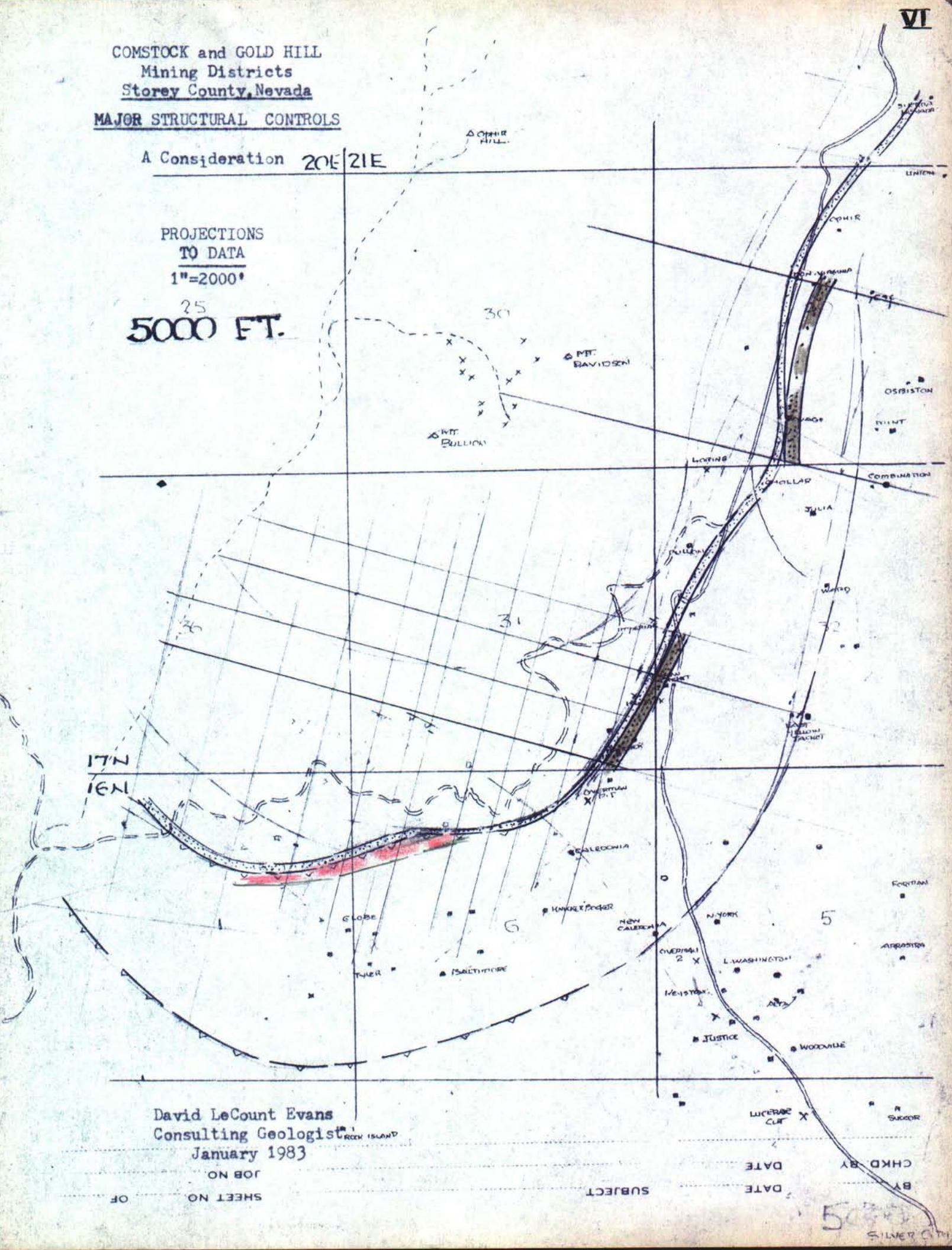
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1"=2000'

5000 FT.



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Consulting Geologist
January 1983

JOB NO
SHEET NO OF
SUBJECT
DATE
BY
CHKD BY
DATE

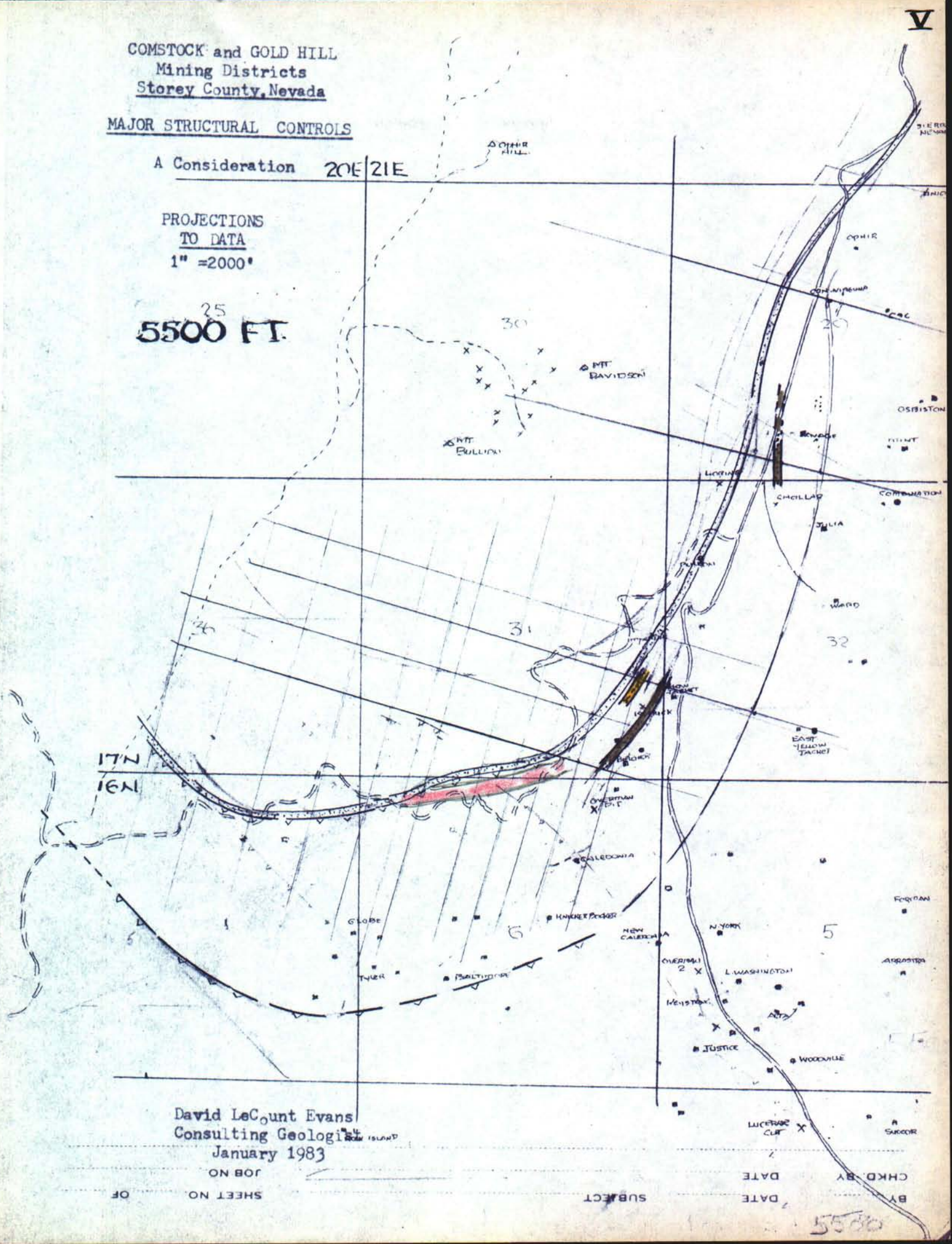
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" =2000'

5500 FT.



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Consulting Geologist
January 1983

JOB NO
SHEET NO OF
SUBJECT
DATE BY
CHK'D BY DATE

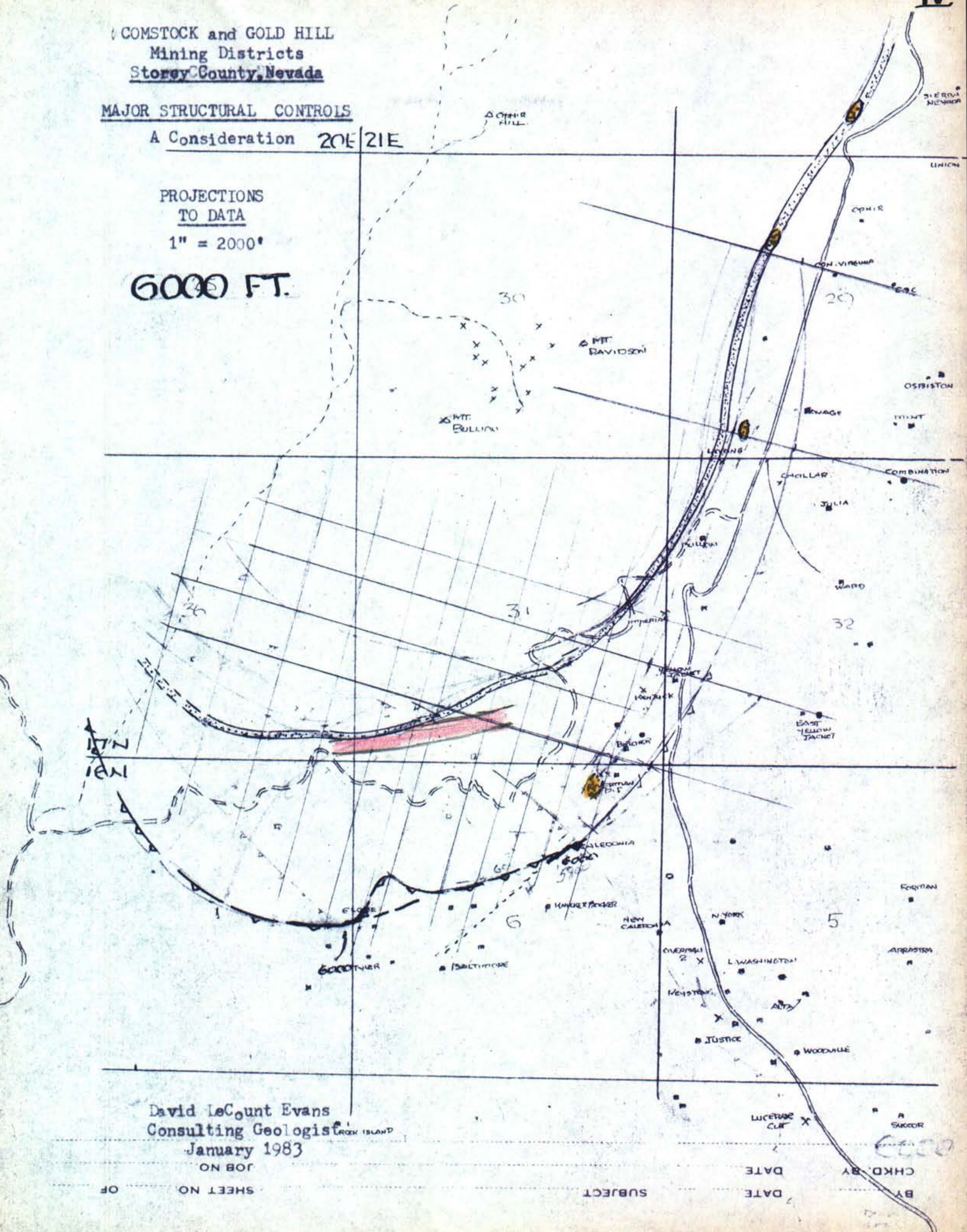
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" = 2000'

6000 FT.



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BY DATE SUBJECT SHEET NO OF
CHKD BY DATE JOB NO

III

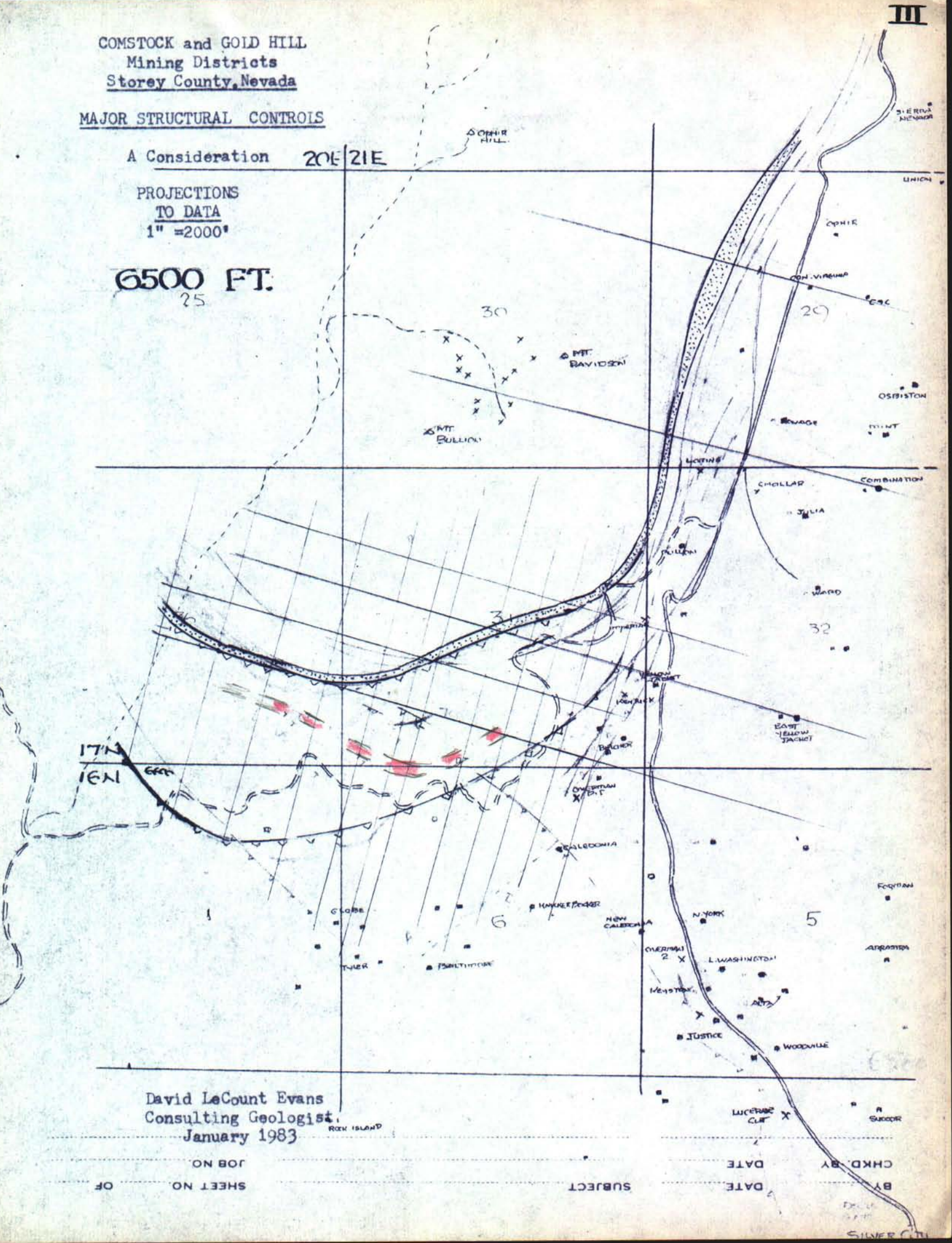
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" =2000'

6500 FT.



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Consulting Geologist
January 1983

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SHEET NO. ..... OF .....

JOB NO.

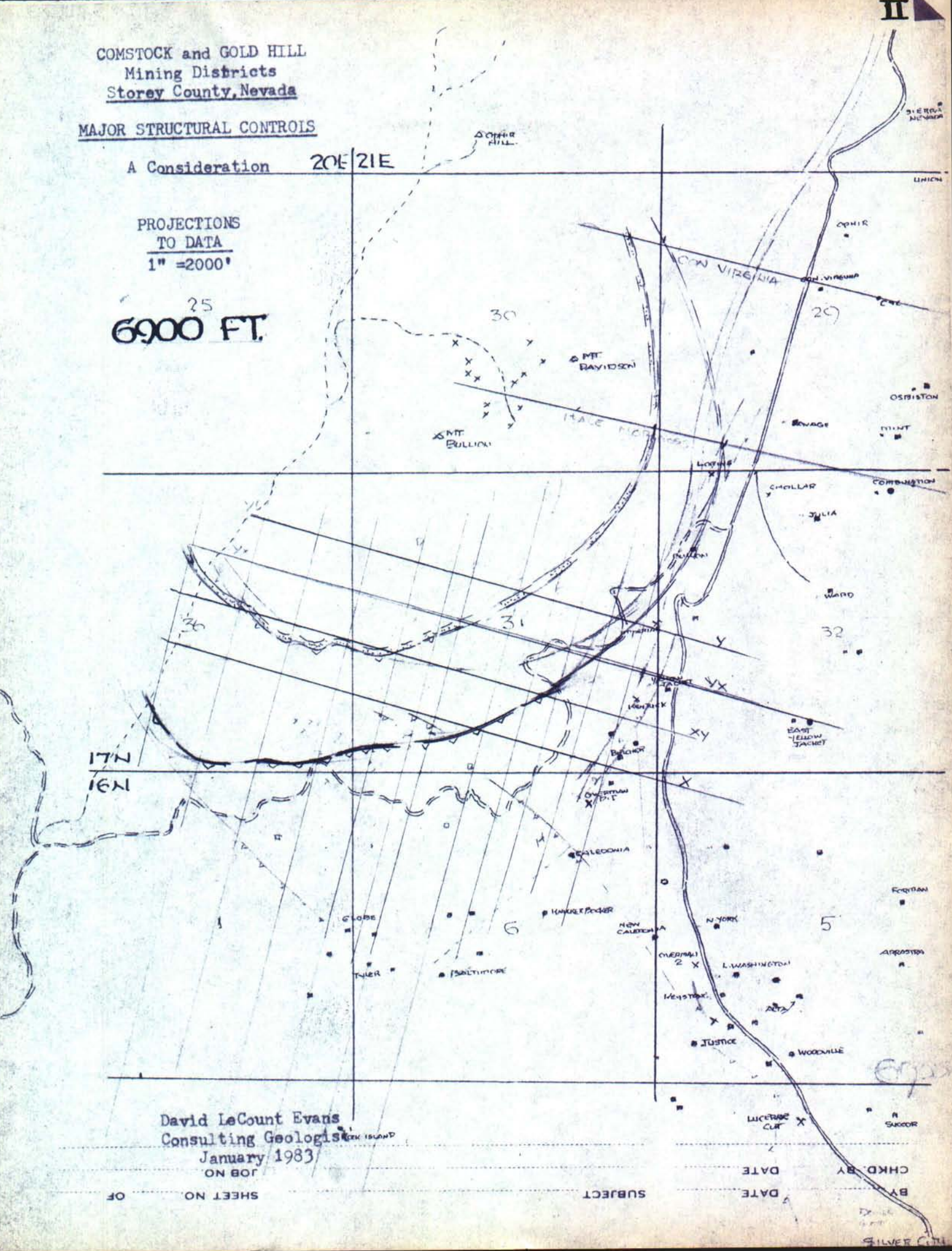
COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

PROJECTIONS
TO DATA
1" =2000'

25
6900 FT.



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CHKD. BY DATE

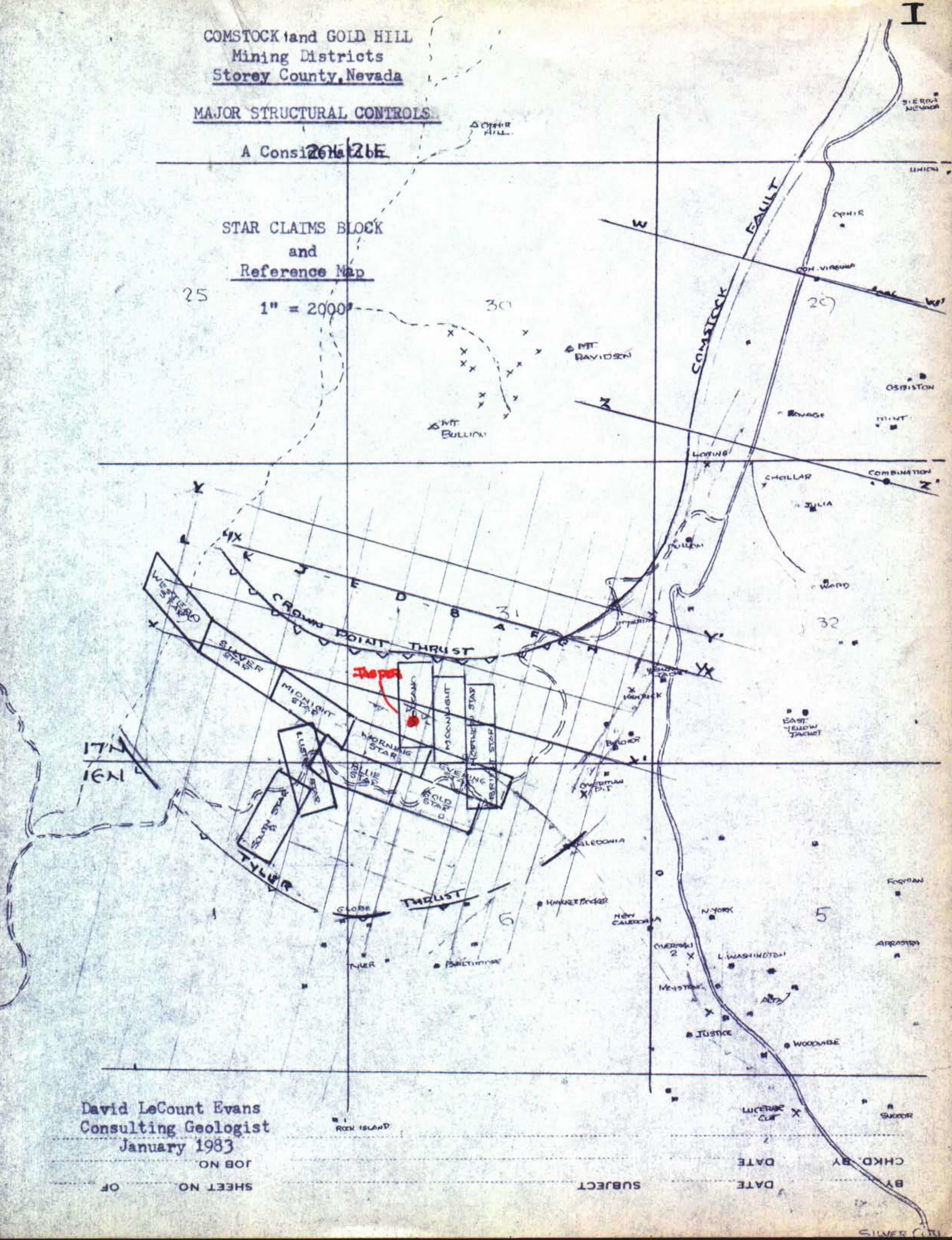
COMSTOCK and GOLD HILL Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

STAR CLAIMS BLOCK and Reference Map

1" = 2000'



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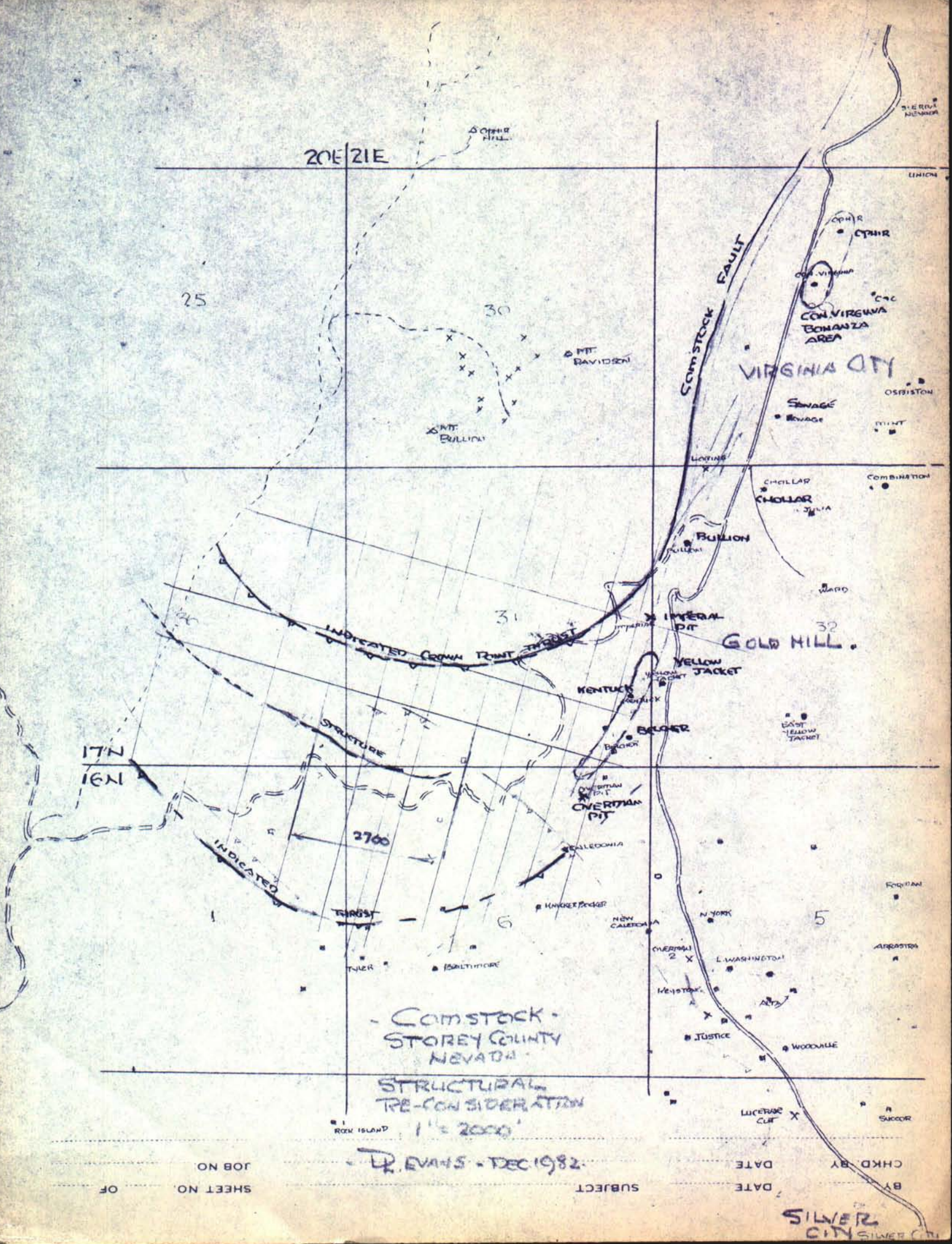
January 1983


20E
21E
25
30
31
32
6
5
17N
16N
COMSTOCK FAULT
CON. VIRGINIA BONANZA AREA
VIRGINIA CITY
GOLD HILL
INDICATED CROWN POINT THRUST
INDICATED THRUST
STRUCTURE
2700
IMPERIAL PIT
YELLOW JACKET
KENTUCK
BELCHER
OVERMAN PIT
CHOLLAR
COMBINATION
BULLION
OPHIR
SAVAGE
MT. DAVIDSON
MT. BULLION
CALEDONIA
NEW YORK
L. WASHINGTON
JUSTICE
WOODVILLE
SUCCOR
TYLER
BALTIMORE
ROCK ISLAND
EAST YELLOW JACKET
- Comstock -
STOREY COUNTY
NEVADA
STRUCTURAL
RE-CONSIDERATION
1" = 2000'
R. EVANS - DEC 1982
SILVER CITY

ORIGINAL

ORIG.

STAR GROUP PROPERTY

Gold Hill District
Storey County, Nevada

Further Analysis

GEOLOGICAL

David LeCount Evans
February 1, 1983

Foreword:

Since the completion of a June 26, 1982 report, Covering the Star Group properties, the writer has continued with his appraisal of that very interesting area.

Probably the June study's most contentious proposals were (1) the introduction of two overthrust faults to the regional structural picture, the one following Crown Point ravine and the second crossing the region of concern, after proceeding from the Imperial pit area and past the footwall of the Belcher mine; and, (2) the continuation to the west of the Comstock major structure (long accepted as a normal fault) by our proposed Crown Point structure, a thrust fault.

Purposes:

This up-dating memorandum is submitted, not for purposes of reneging on the above but to further explore such suggestions, employing the same field observations, taking complete advantage of P.C.Calkins geological-surface map (1944), and backing our reasoning with additional Star Group sections, as well as, Comstock sections with which to compare the two areas.

Submitted:

Fifteen plates are provided to illustrate the writer's reasoning and to support his conclusions.

Plate I

This Index map of the Comstock area shows the locations of all cross sections and principal structural units. Note that the Comstock-Crown Point

DAVID LECOUNT EVANS, CONSULTING GEOLOGIST

curving trend is as shown on Plate 7 of the June report, but that our second thrust has been deleted and moved slightly south to structures, shown by Calkins, north of the Globe-Tyler mines area and then northeast to the Caledonia mine

Plates II Through VI

These plan maps project major structures and mineralization to several data (levels). Projections have been controlled by sections.

Plates VII Through X

Provided are sections through Comstock areas of outstanding production, namely, VII - - the Con Virginia; VIII - - the Hale-Norcross; IX - - the Yellow Jacket, and X - - the Belcher.

Plates XI Through XV

Also provided are sections through the Star Group, starting with H (closest to the Belcher) and continuing west to Section L at the western edge of the block.

Comments:

One

With reference to all Star Group sections, formations, thereone, are noted as follows:

Metavolcanics	VOL	Triassic
Hartford Hill rhyolite	Tr	Lower Miocene
Alta volcanics	Ta	Middle Miocene
Sutro member of	Ts	dto
Kate Peak volcanics	Tka	Late Miocene

Targets per cross section (as suggested by Comstock sections) are shown in light "stipple" and pink coloration.

Two

(next page)

Two

Note on Plate I, in the south half of the Volcano claim, an area in red marked "Jasper". Scattered masses of deep-red jasper and white opaque chert, and Sutro float, occur at the crest of the ridge and are considered of significance. Considering the possibility that the red jaspers may be similar to those characteristic of other Triassic-lower Jurassic occurrences in Nevada and with reference to Section B (Plate XIII), any acceptance of these Jasper outcrops as Triassic would open the door to a flat (20°) thrust from the Tyler-Globe area to this Volcano claim occurrence. Also significant are the down-slope observations of other anomalous cherts to just above the pit area. The slope is parallel to and slightly beneath the fault projection

Three

Evident on the four Comstock sections, and common to the overall Comstock district, is the fact that for all bonanza-type deposits the upper portion occurs far out in the hanging wall and away from the Comstock fault. With west dip at the top, the mineralized masses steepen and, with depth assume easterly dip as they merge with the Comstock fault. The Comstock fault, with some quartz mineralization, produced only small amounts of ore. The bonanzas, away from the fault, are those units which gave the district its reputation.

Four

Where observed in the Star block, mineralized structure at surface is dipping, northerly, into the southerly plunge of the Crown Point thrust. After a consideration of the Comstock sections, this analysis presumes that Star structure will steepen and reverse dip as it approaches, in depth, the Crown Point structure.

Five

Assuming that the above analysis is within reason, mineralized

structure, in the Star group area, would be centered between two major thrusts. Our projections II and VI indicate that the writer has taken the liberty of extending the Tyler indicated-thrust north, from the Caledonia into the main Comstock area.

Six

Strain, applied to a massive block between two major thrusts, might account for the development of major open structures, with mineralization in quantity feeding up along the fault line and into such strain-openings.

Seven

Regarding normal movement on the Comstock fault, recumbency, associated with thrust faulting, might suggest down-dip offsetting.

Eight

Whether one can accept the above reasoning, or not, Plates V and VI, projections to the 5500 and 5000 data, speak for themselves. The area of interest is directly in line with and only one half mile from the Belcher to Imperial trend of major production.

D. LeCount Evans.

David LeCount Evans

Reno, Nevada

February 1, 1983.

DAVID LeCOUNT EVANS. CONSULTING GEOLOGIST

SECTIONS

REVISED

STAR GROUP - STUDY.

JAN - 83

R20E-R21E

COMSTOCK DISTRICT

STOREY CO., NEVADA

SURFACE GEOLOGY

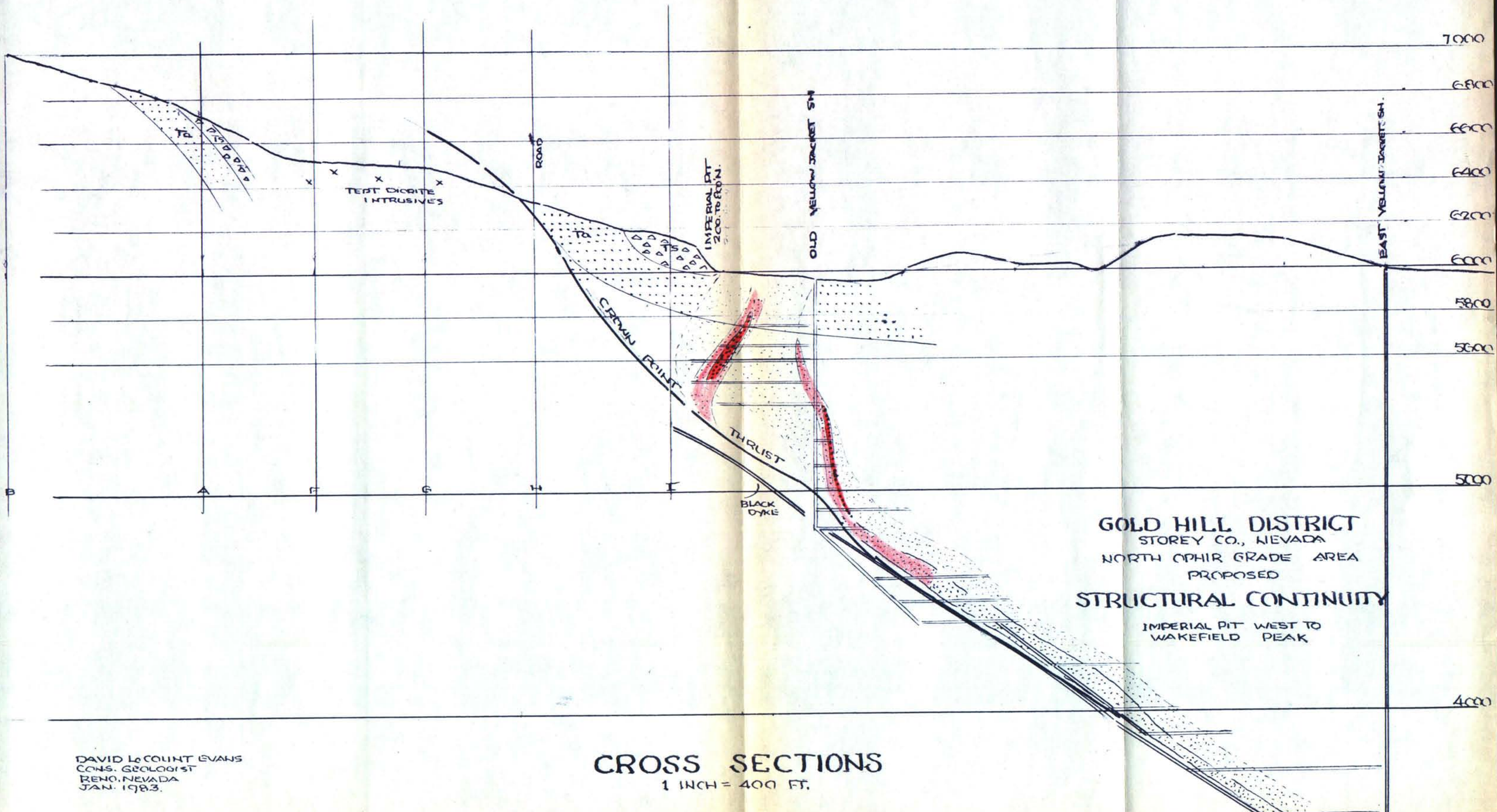
1 IN = 2000 FT.

AFTER F.C. CALKINS
1944

WITH ADDED INTERPRETATION
AS MAPPED BY
DAVID LeCOUNT EVANS
1972
1982

D.L. EVANS
7/20/82
1/25/83

Y-Y'



GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY
IMPERIAL PIT WEST TO WAKEFIELD PEAK

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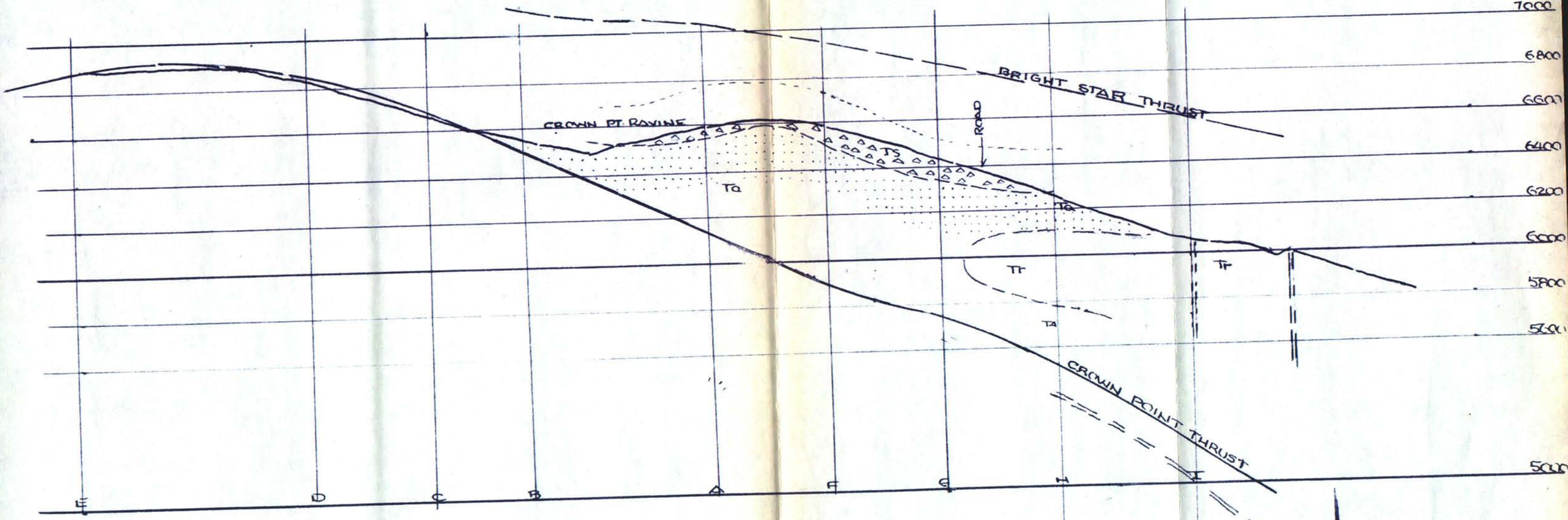
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983.

CROSS SECTIONS
1 INCH = 400 FT.

X-Y



CROSS SECTIONS

1 INCH = 400 FT.

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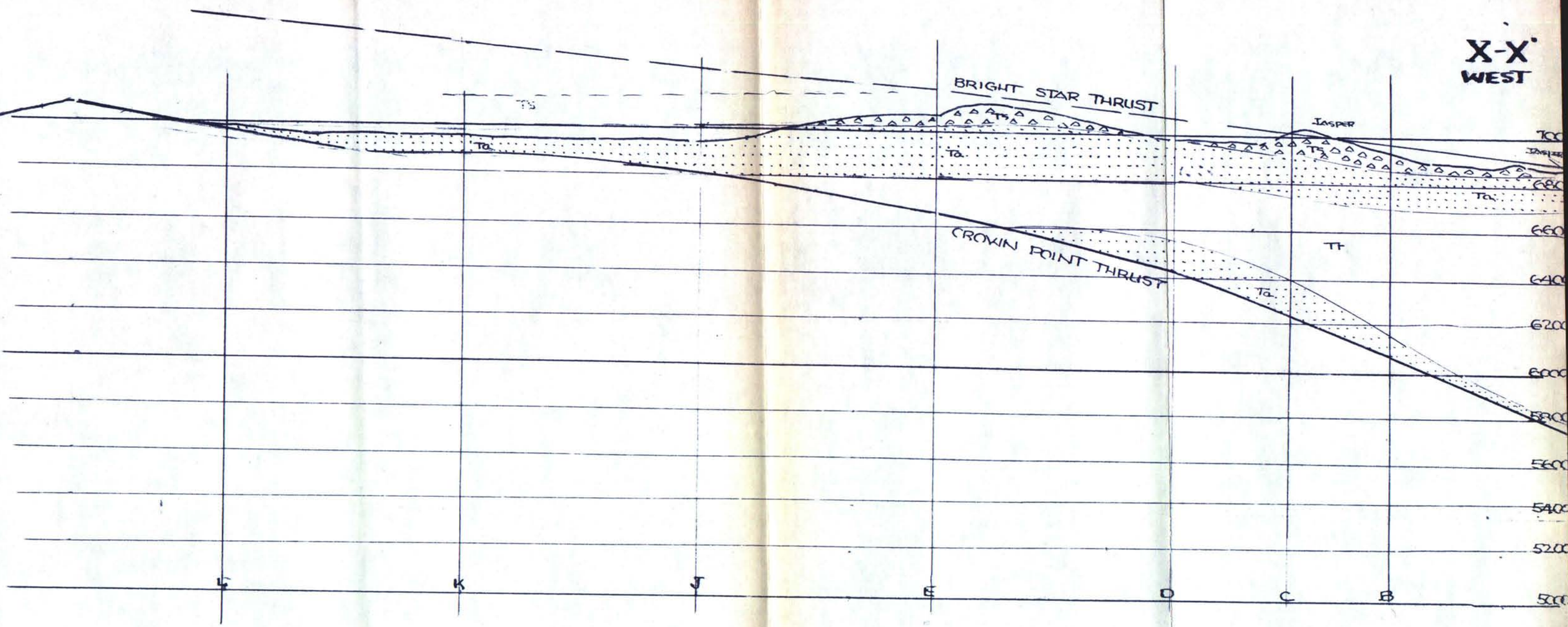
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH ADIT GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY
IMPERIAL PIT WEST TO
WAKEFIELD PEAK

X-X'
EAST

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.



DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

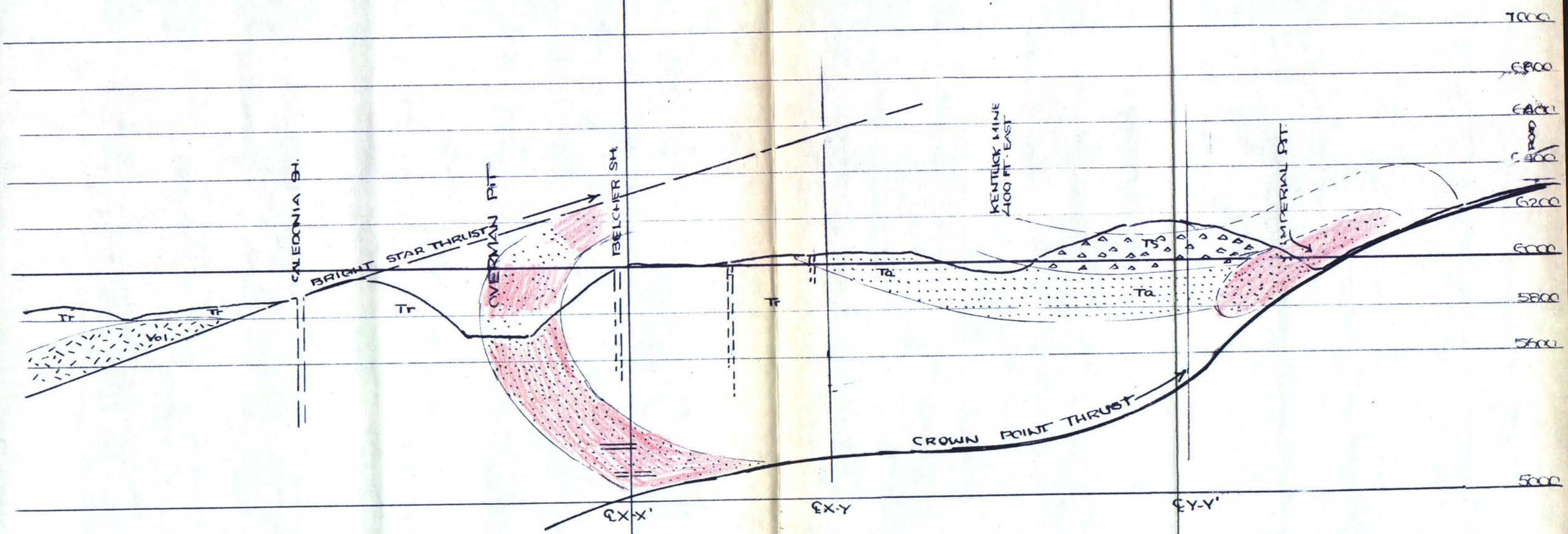
CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK

I-I'



GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED

STRUCTURAL CONTINUITY

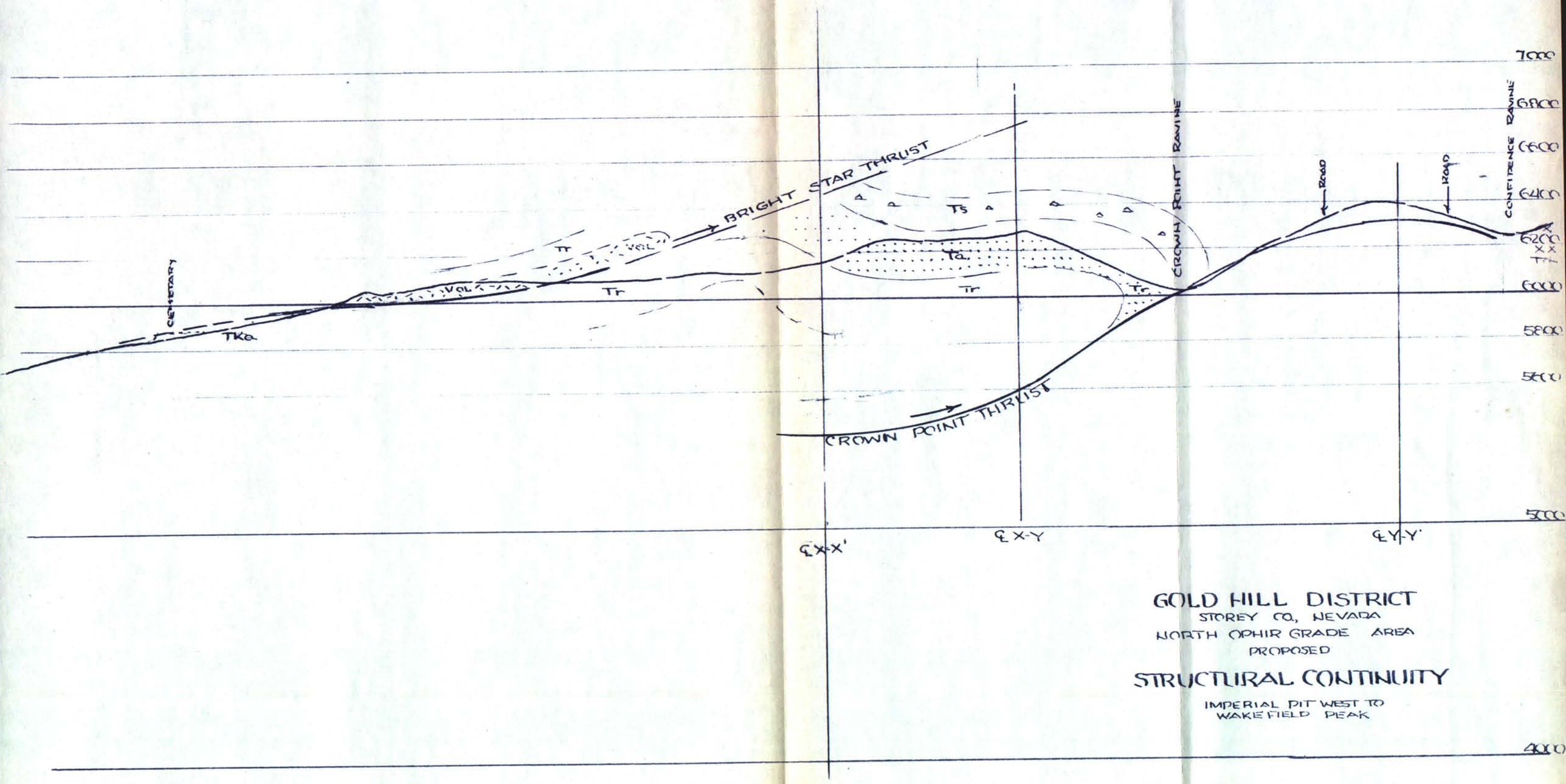
IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID Le COUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

H-H'



GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED

STRUCTURAL CONTINUITY

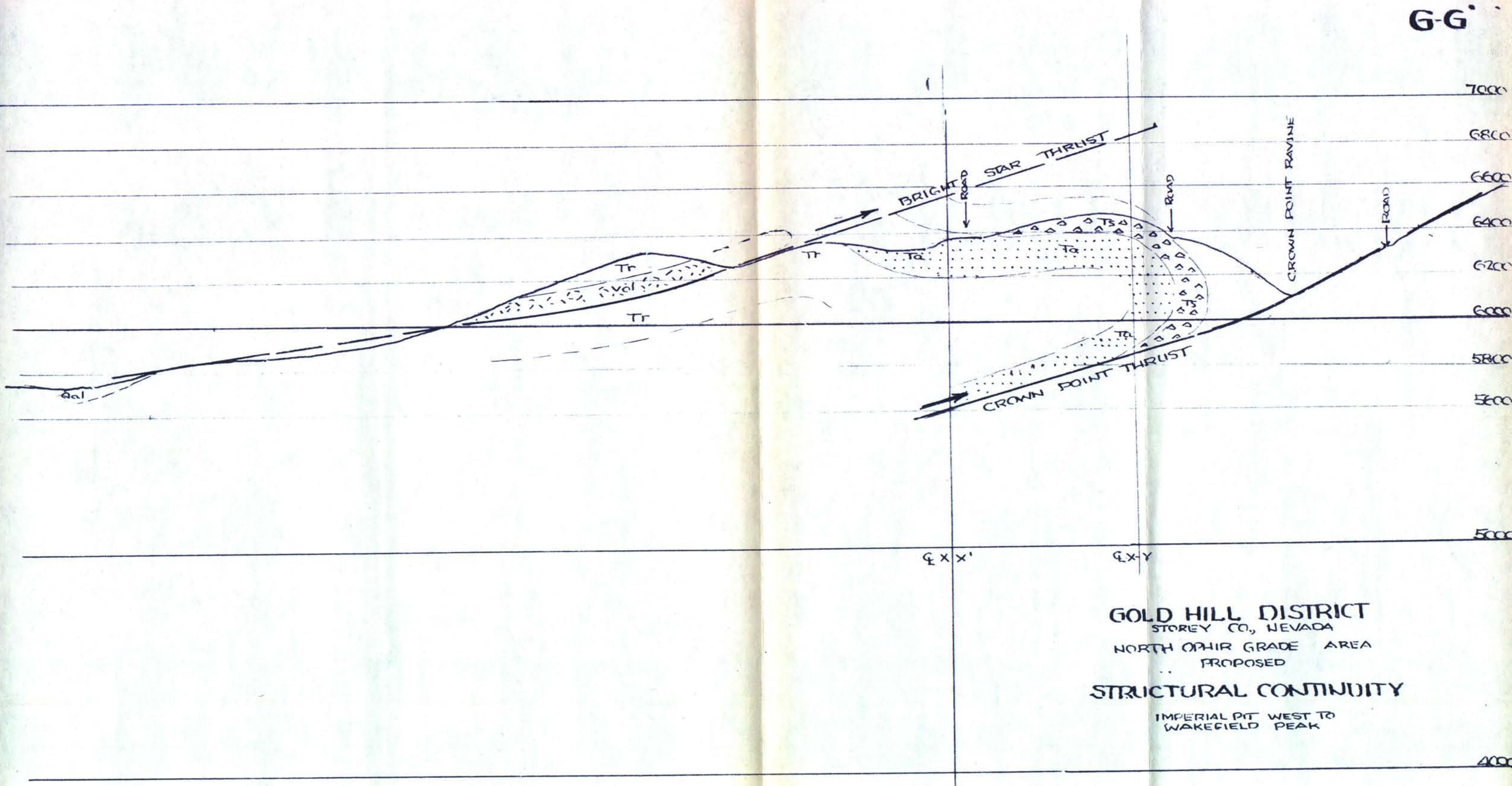
IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA

JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.



GOLD HILL DISTRICT
STOREY CO., NEVADA

NORTH OPHIR GRADE AREA
PROPOSED

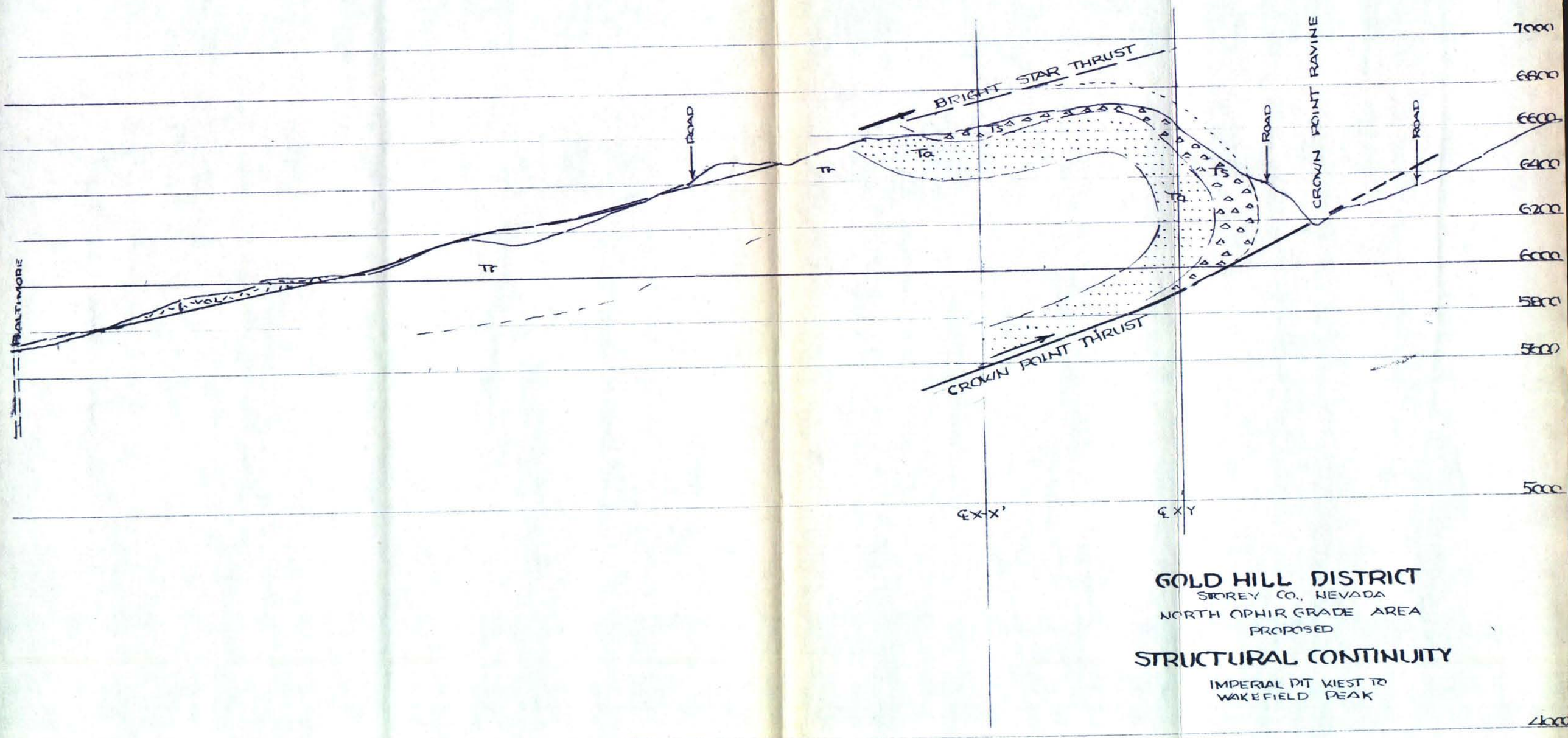
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.

F-F'



GOLD HILL DISTRICT

SURREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

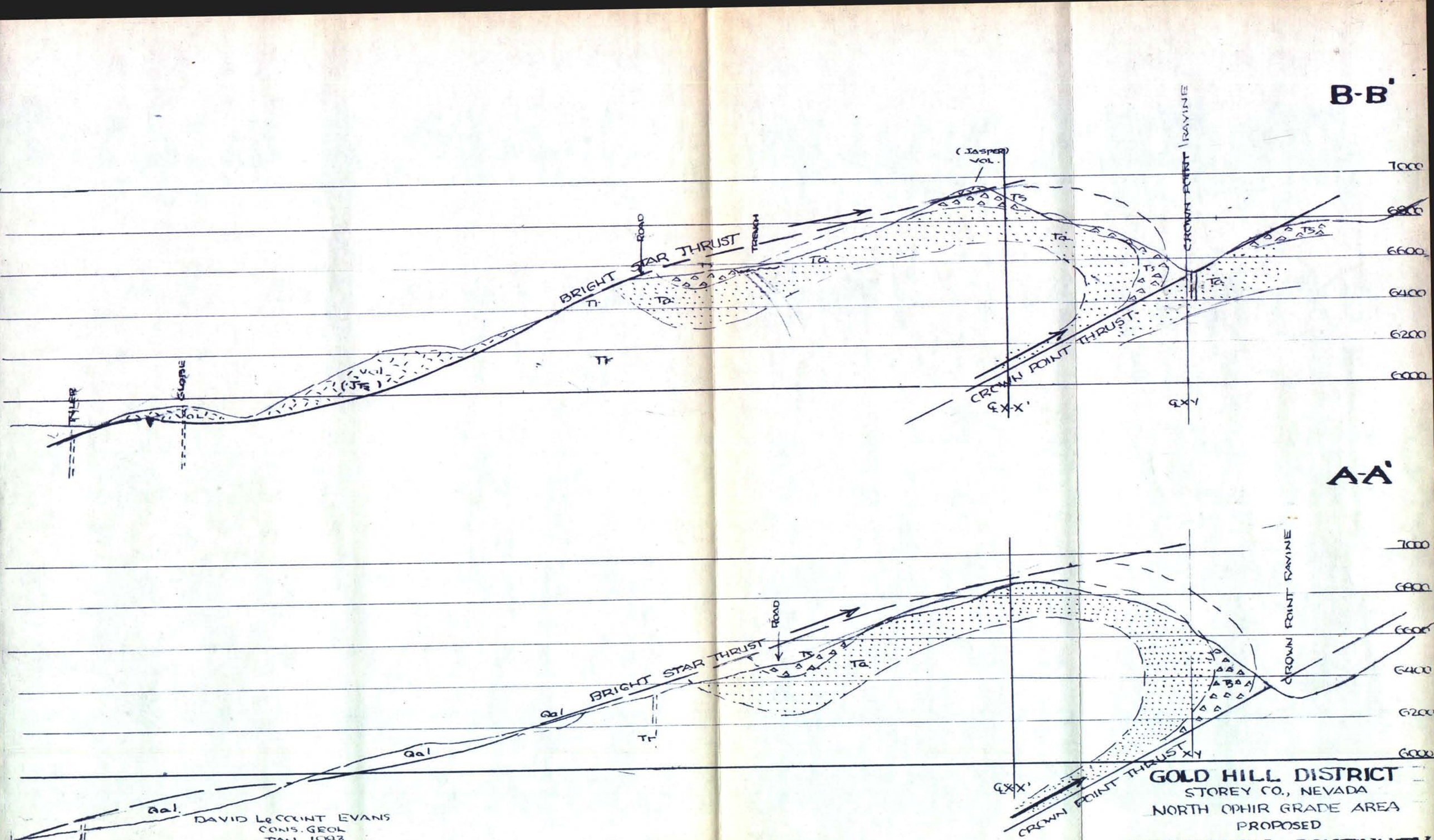
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.



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CONS. GEOL
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

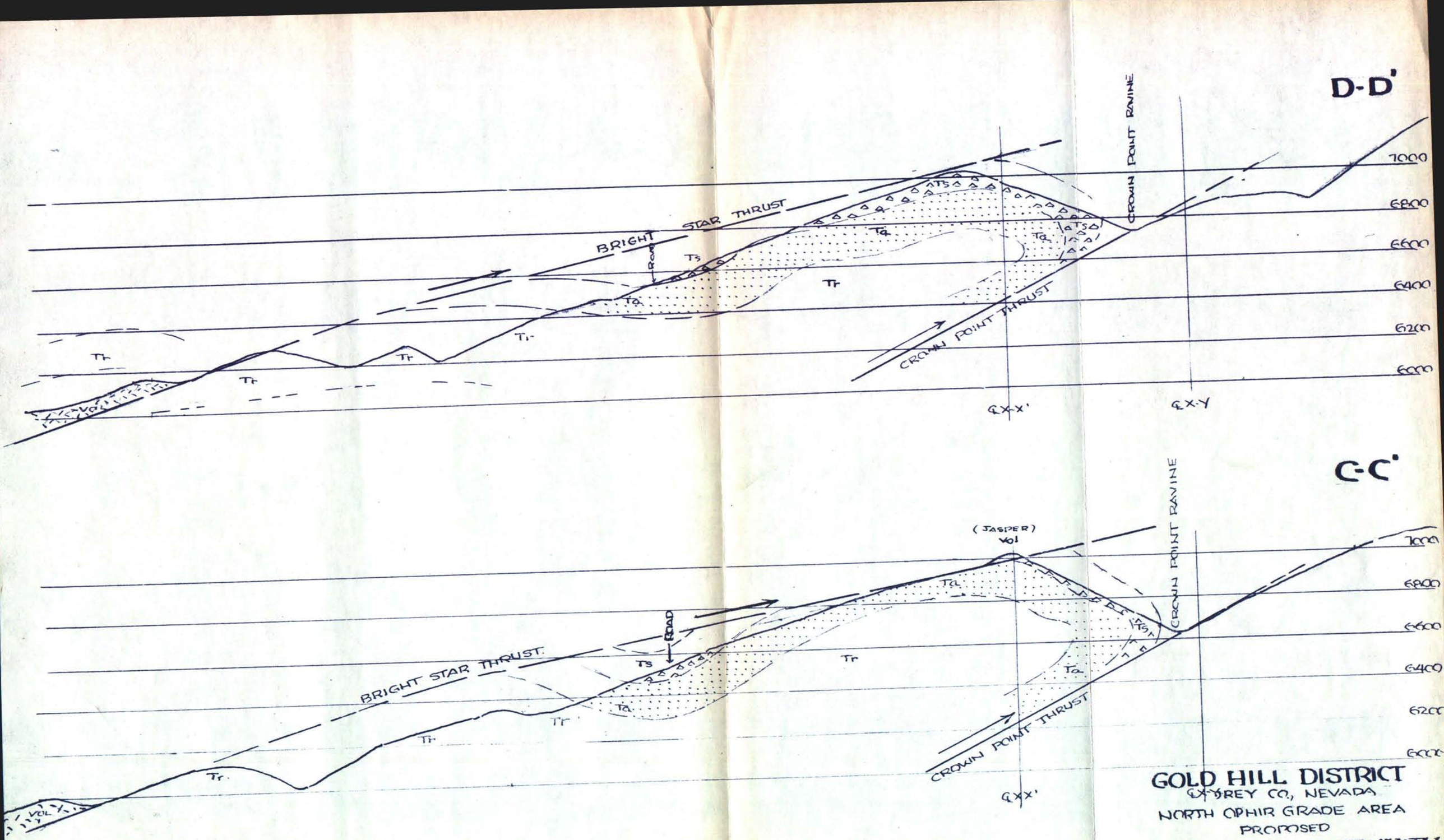
STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK



CROSS SECTIONS

1 INCH = 400 FT.

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CONS. GEOLOGIST,
RENO, NEVADA,
JAN. 1983

GOLD HILL DISTRICT

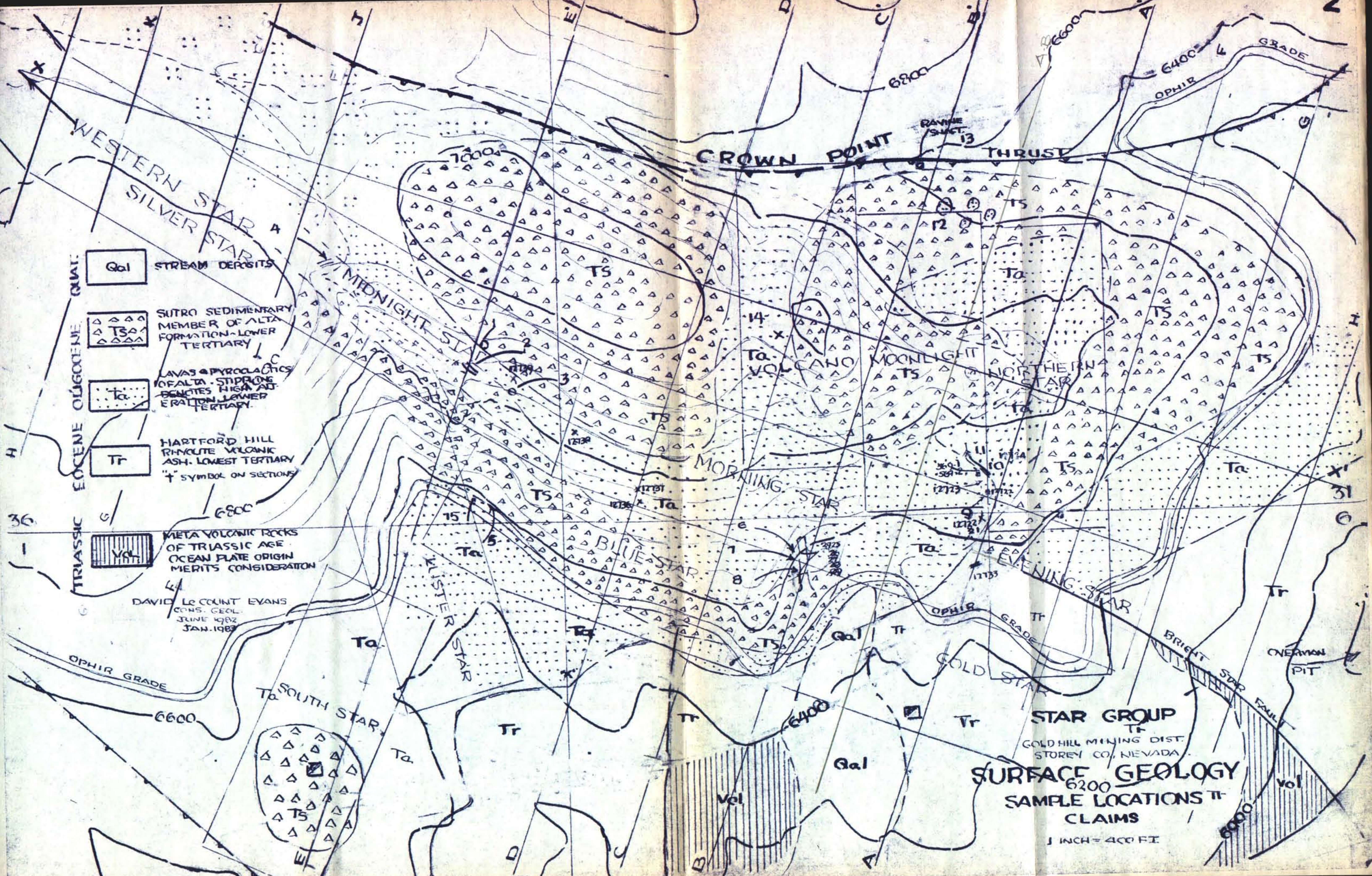
STOREY CO., NEVADA

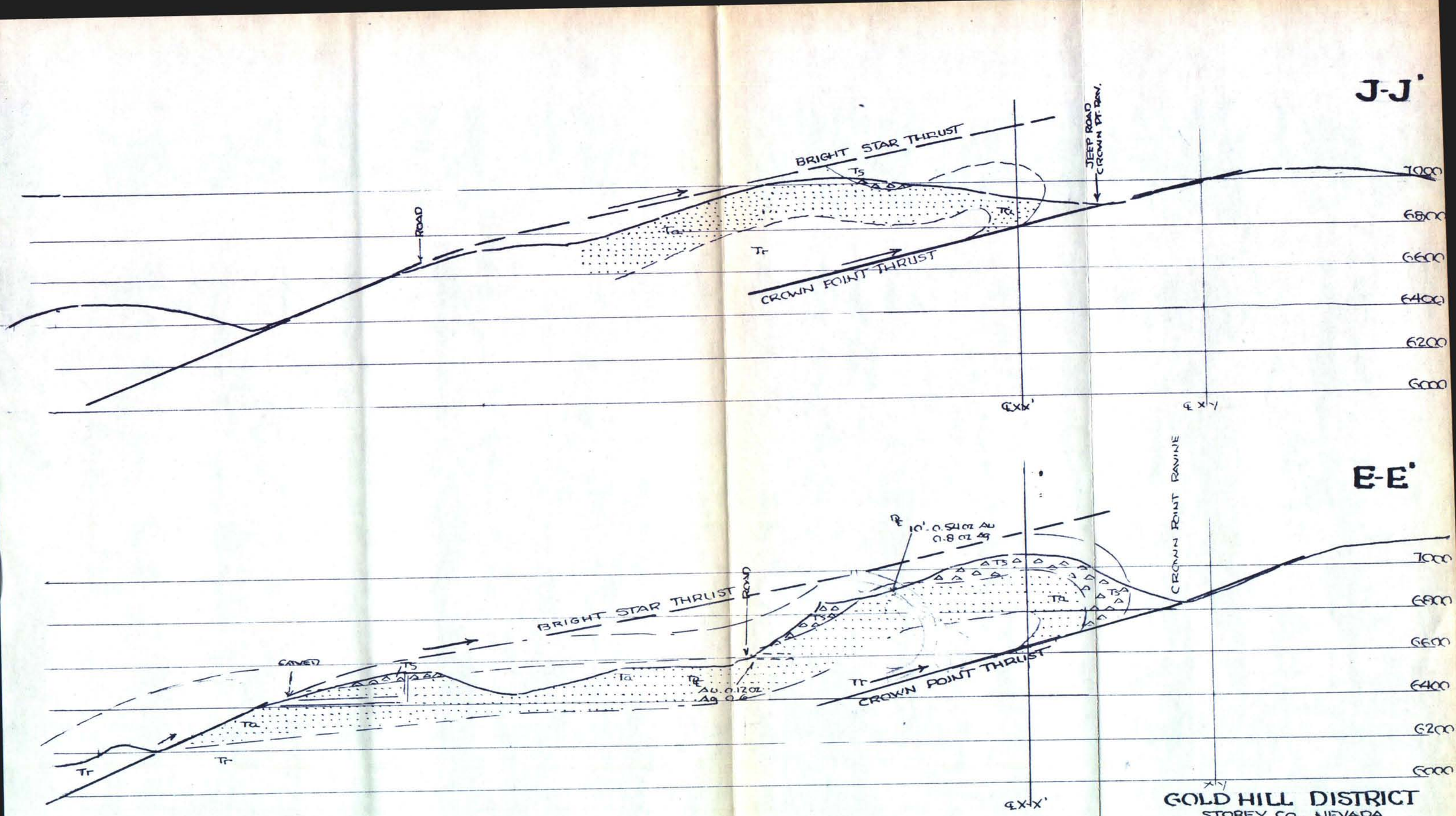
NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK


STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA
SURFACE GEOLOGY
SAMPLE LOCATIONS
CLAIMS
1 INCH = 400 FT.
QUAT.
EOCENE OLIGOCENE
TRIASSIC
Qal
STREAM DEPOSITS
Ts
SUTRO SEDIMENTARY MEMBER OF ALTA FORMATION - LOWER TERTIARY
Ta
LAVAS & PYROCLASTICS OF ALTA - STIPPLING DENOTES HIGH ALTERATION - LOWER TERTIARY
Tr
HARTFORD HILL RHYOLITE VOLCANIC ASH. LOWEST TERTIARY
"t" SYMBOL ON SECTIONS
Vol
META VOLCANIC ROCKS OF TRIASSIC AGE
OCEAN PLATE ORIGIN MERITS CONSIDERATION
DAVID LeCOUNT EVANS
CONS. GEOL.
JUNE 1982
JAN. 1983
CROWN POINT THRUST
RAVINE SHAFT
WESTERN STAR
SILVER STAR
MIDNIGHT STAR
VOLCANO
MOONLIGHT
NORTHERN STAR
MORNING STAR
BLUE STAR
EVENING STAR
KUSTER STAR
SOUTH STAR
GOLD STAR
BRIGHT STAR FAULT
OVERMAN PIT
OPHIR GRADE
6800
6600
6400
6200
6000
7000



DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

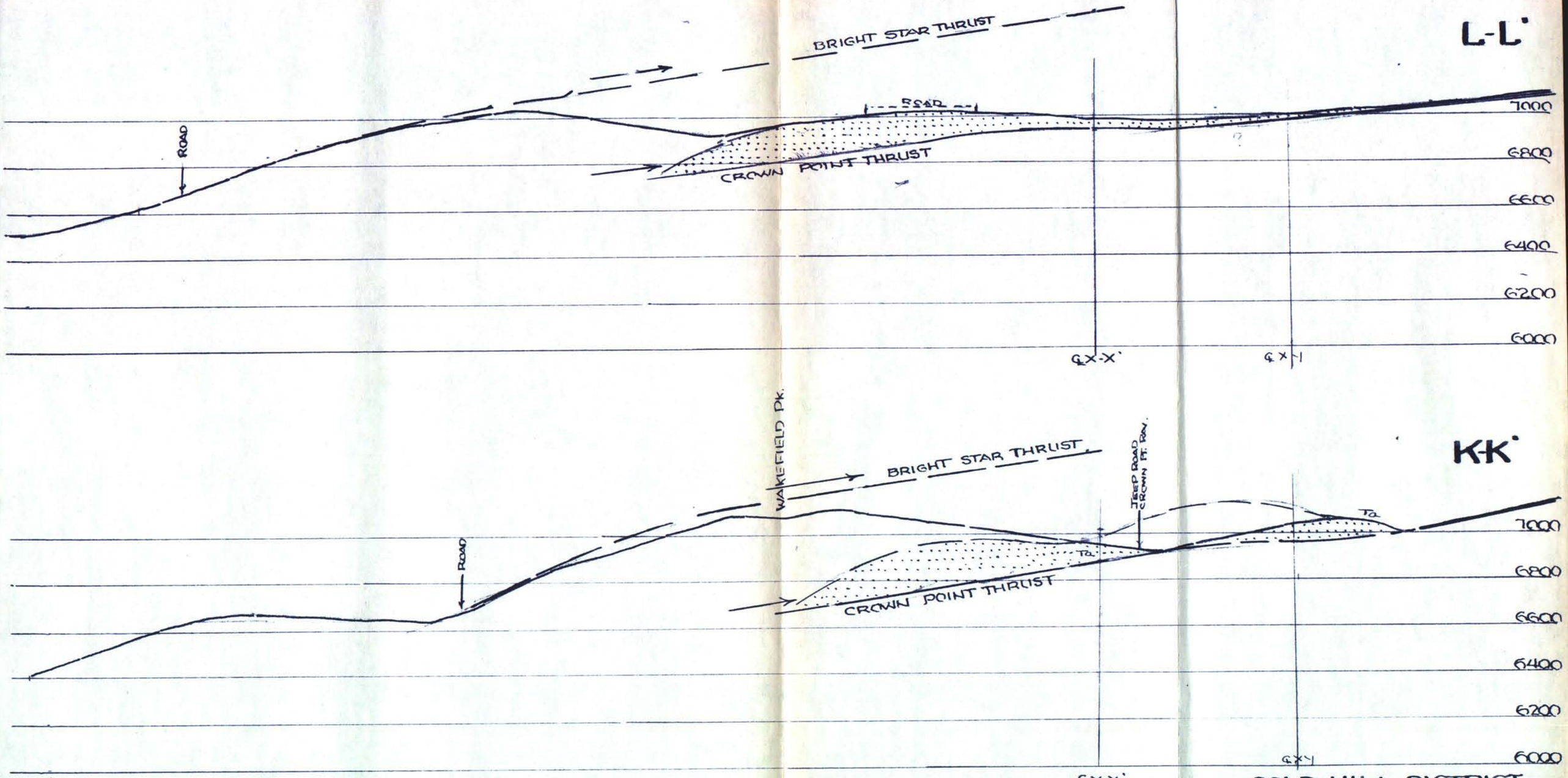
STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK



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JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

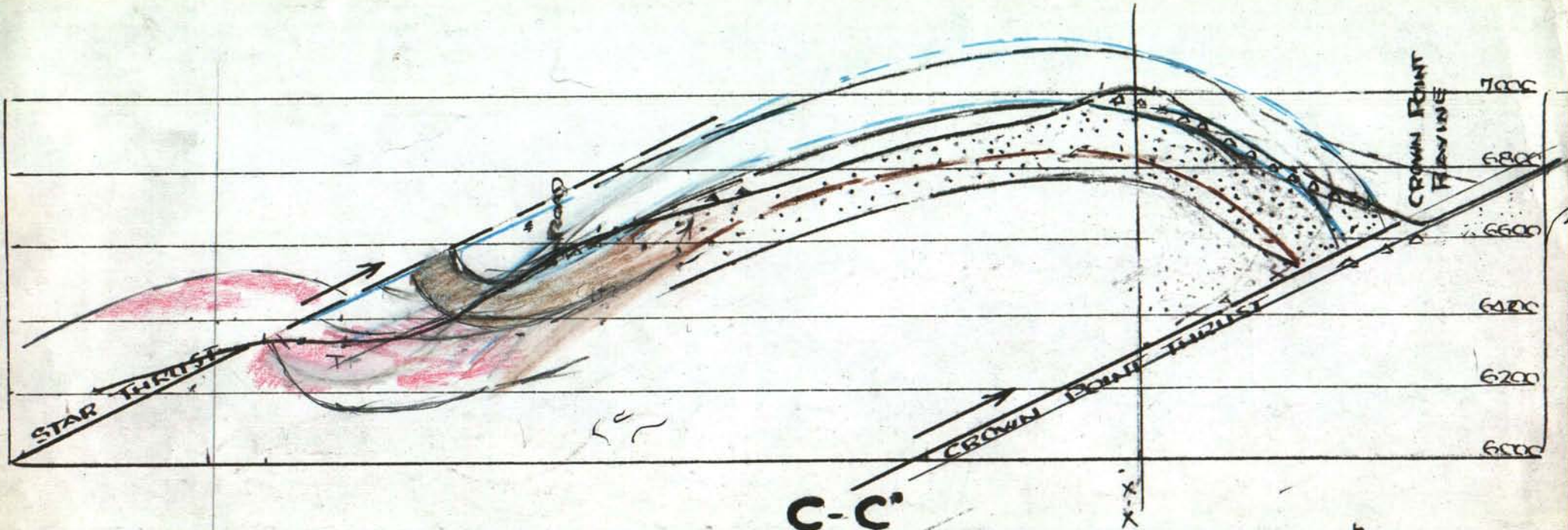
IMPERIAL PIT WEST TO WAKEFIELD PEAK

X-X'

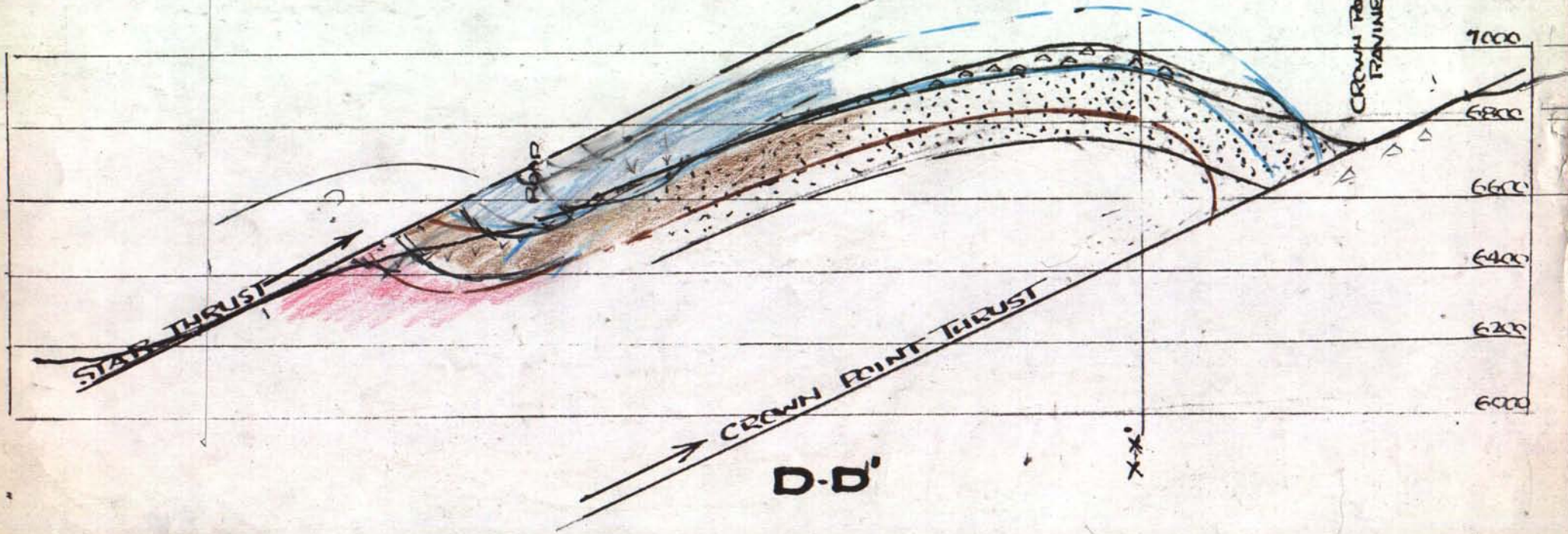
1" = 400

5/25/82

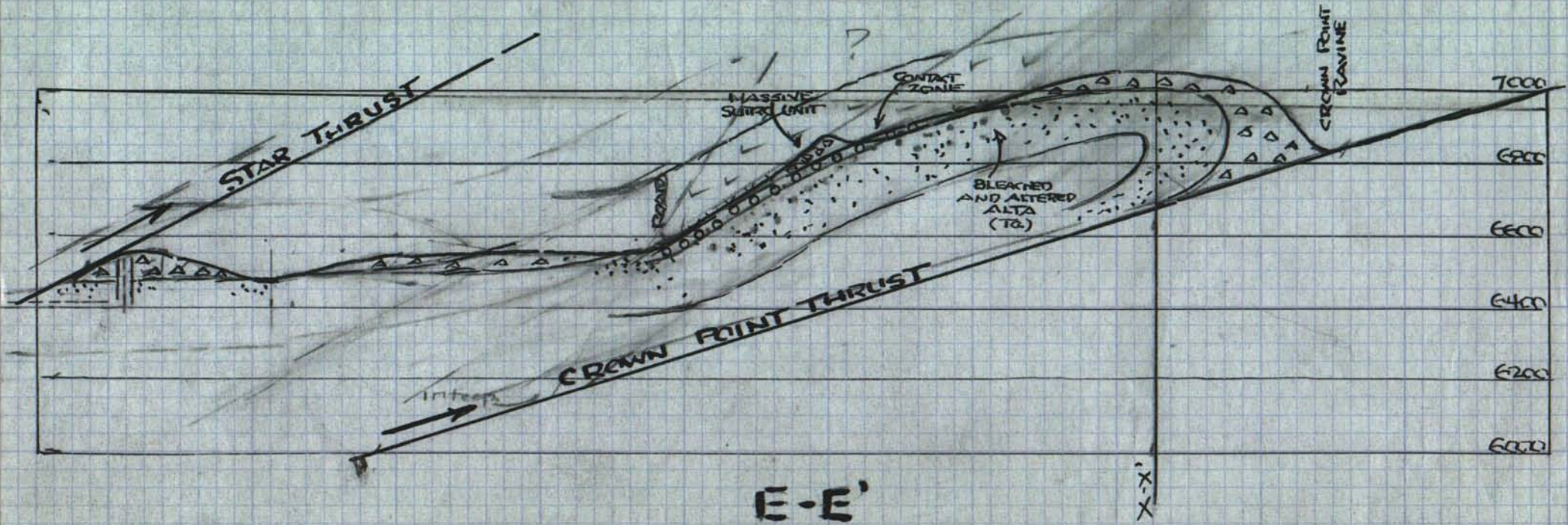
STAR


STAR THRUST
CROWN POINT THRUST
CROWN POINT RAVINE
7000
6800
6600
6400
6200
6000
X
X'

C-C'


STAR THRUST
CROWN POINT THRUST
CROWN POINT RAVINE
7000
6800
6600
6400
6200
6000
X
X'

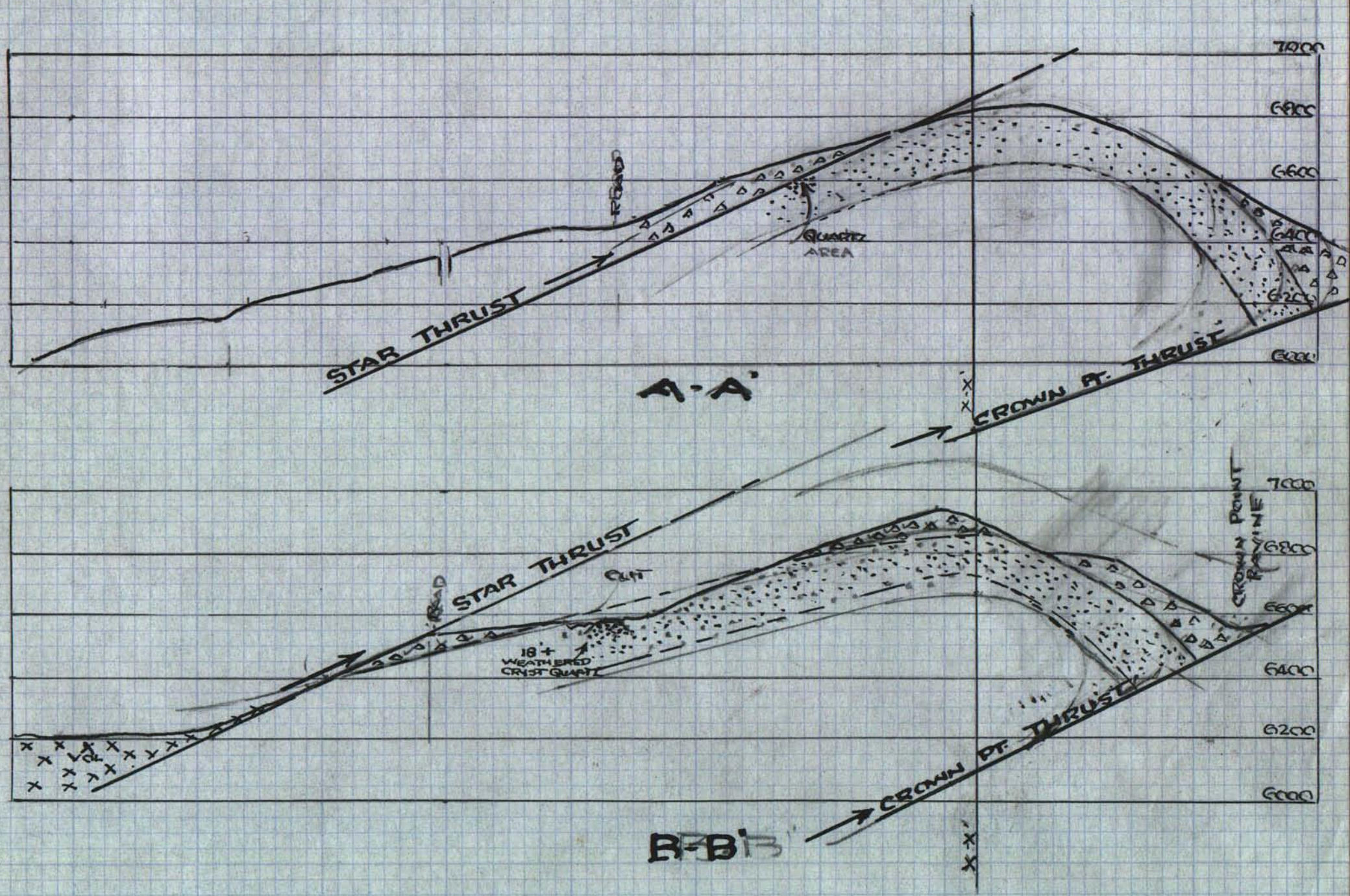
D-D'

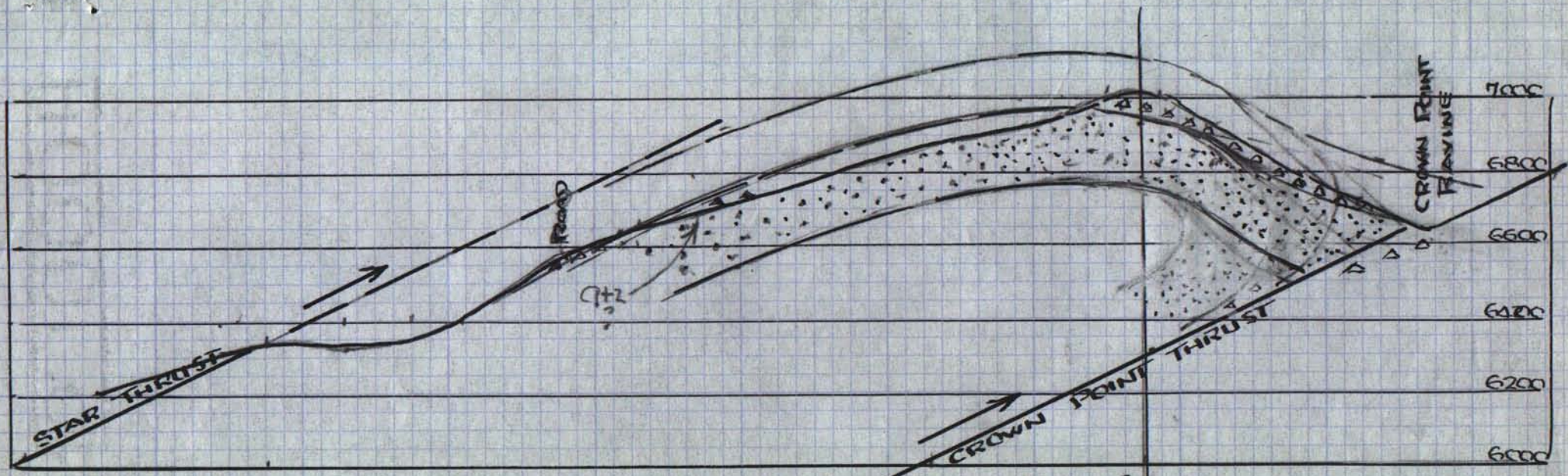


E-E'

ORIGINAL SECTIONS

REVISED 6/11/82


7000
6800
6600
6400
6200
6000
ROAD
QUARTZ AREA
STAR THRUST
CROWN PT. THRUST
X-X'
A-A'
7000
6800
6600
6400
6200
6000
STAR THRUST
ROAD
CUT
18+ WEATHERED CRYST QUARTZ
CROWN POINT RIDGE LINE
CROWN PT. THRUST
X-X'
B-B'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6800
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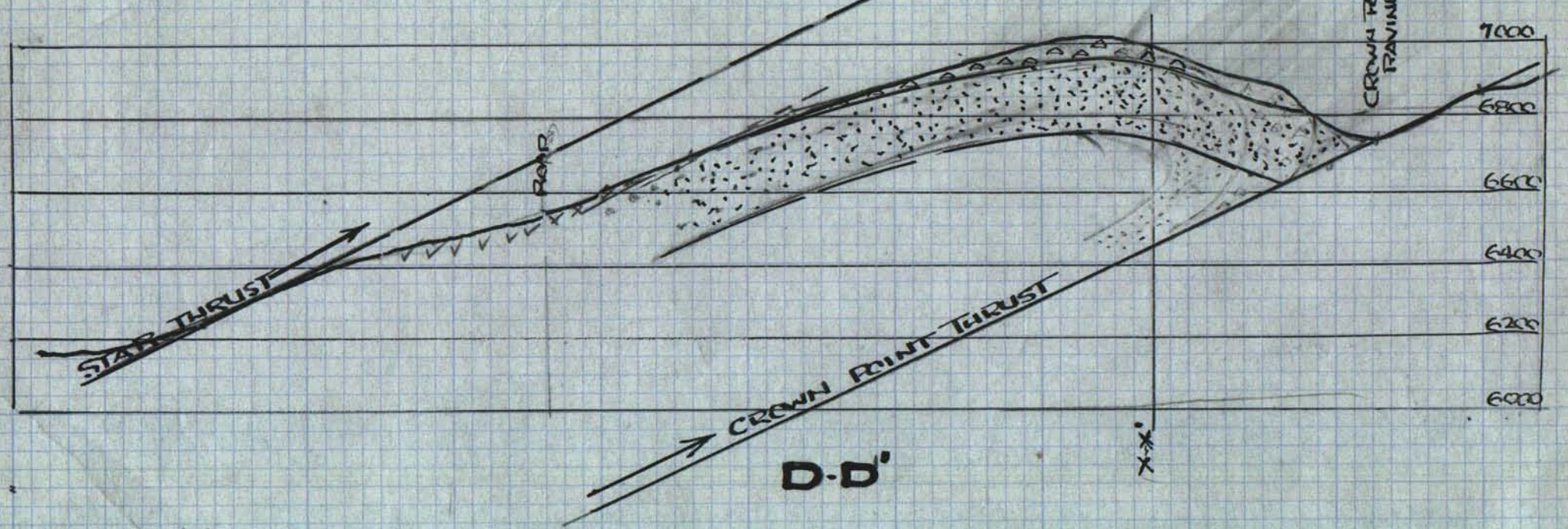
6200
6000
CROWN POINT RAVINE
ROAD
STAR THRUST
CROWN POINT THRUST
X-X'

C-C'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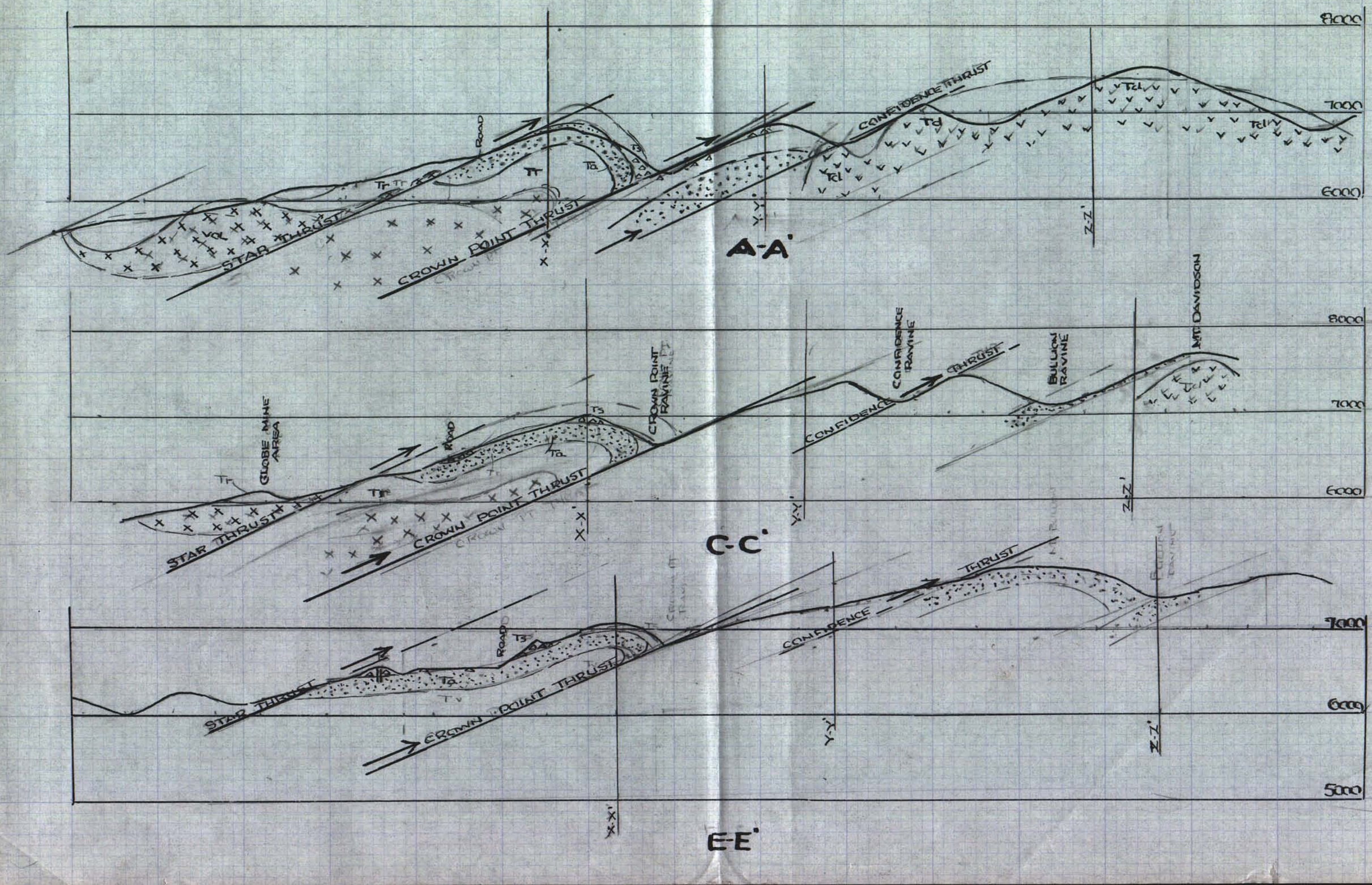
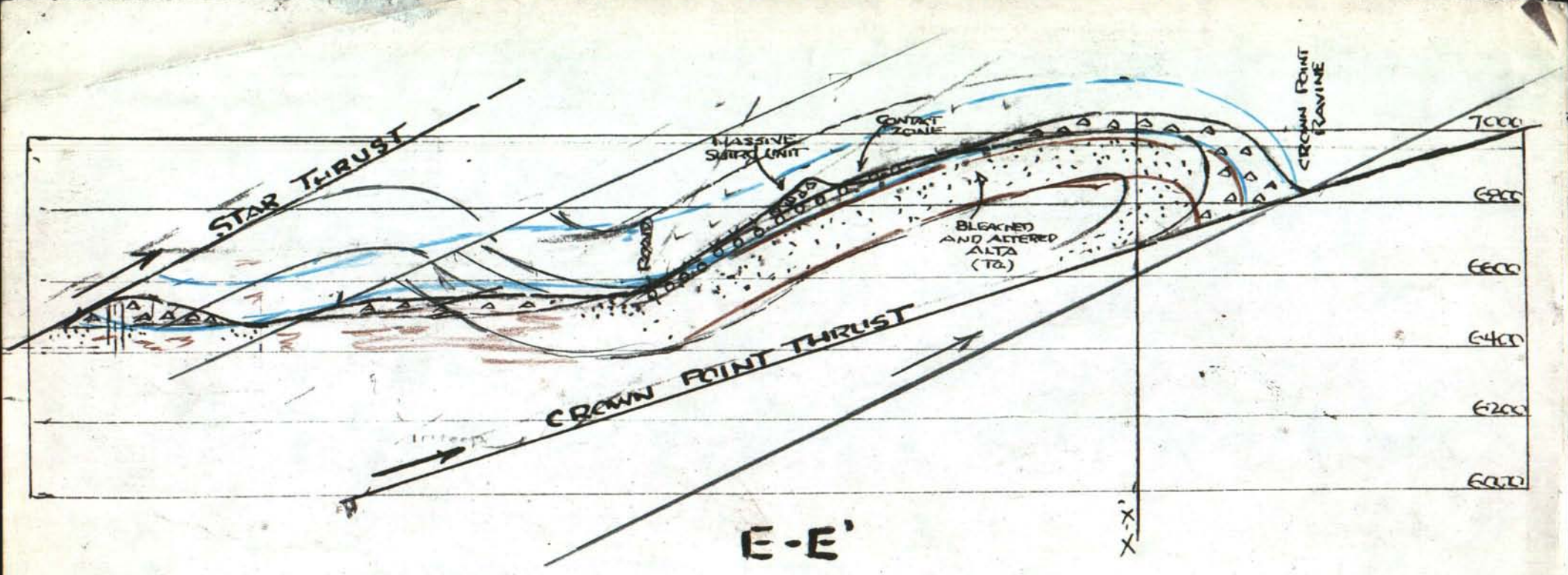
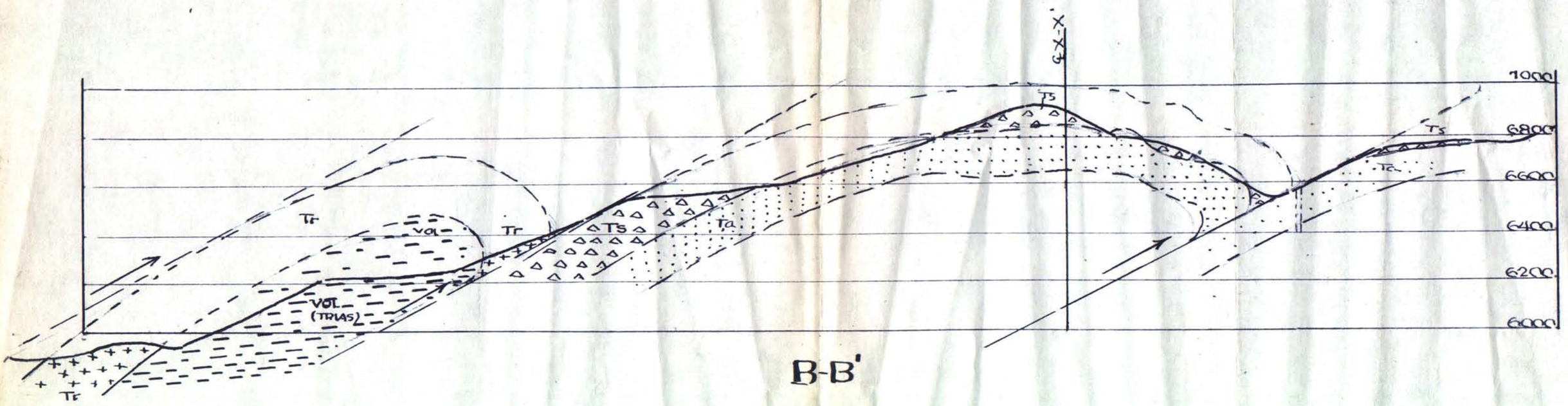
CROWN POINT RAVINE
ROAD
STAR THRUST
CROWN POINT THRUST
X-X'

D-D'

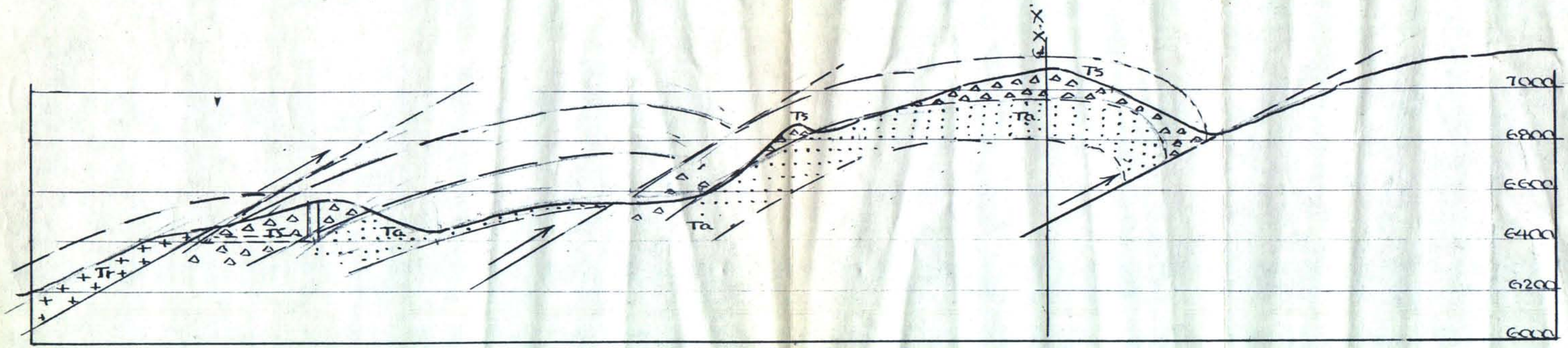

A-A'
STAR THRUST
CROWN POINT THRUST
CONFIDENCE THRUST
ROAD
Tr
Ta
Td
Tdl
X-X'
Y-Y'
Z-Z'
8000
7000
6000
C-C'
GLOBE MINE AREA
CROWN POINT RAVINE
CONFIDENCE RAVINE
BULLION RAVINE
MT DAVIDSON
THRUST
E-E'
Tv
5000
NOTE SHIFT IN ELEV.


STAR THRUST
MASSIVE SILTITE UNIT
CONTACT ZONE
CROWN POINT RAVINE
ROAD
BLEACHED AND ALTERED ALTA (Ta)
CROWN POINT THRUST
X-X'
7000
6800
6600
6400
6200
6000

E-E'



B-B'



E-E'

DAVID LeCOUNT EVANS
CONS. GEOL
JULY-1982

STAR GROUP

GOLD HILL MINING DIST.
STOREY CO., NEVADA

EXTENDED SECTIONS

1 IN. = 400 FT.

March 22, 1989

Mr. William J. Ewing III,
1467 Kimberly Drive,
San Jose,
California 95118.

Dear Will:

Just an hurried line to get this into the mail.

The enclosed consisting primarily with a short report, dated February 1, 1983, is a copy and need not be returned. On the other hand the various plan maps and sections are in short supply and if you can reproduce them, return themat your convenience.

This analysis was followed a few motnhs later by a more detailed approach, but I have only the one copy; if your interest continues, say the word and I'll Kerox it. But I feel that what I have put together may be enough to let you know what my thinking has been.

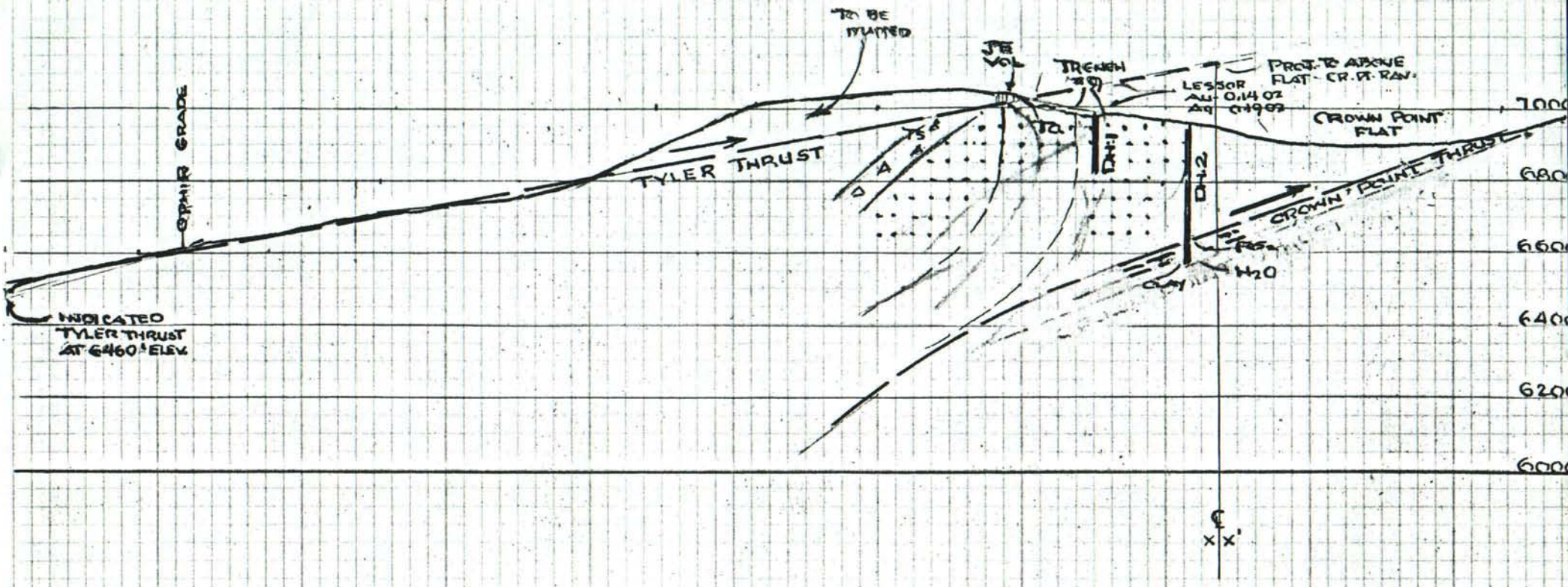
The one larger scale section of the Belcher, shows the details of a nearest neighbor, and provides, especially , production figures.

Your experiences of yesterday afternoon in that one spot in which all of us have encountered problems, makes my heart bleed. I am glad that you finally got hauled out of that mess, and I assume, home in good time.

Be assured that I had no intention of getting you into the Star group, a challenging possibility, but your interest warms my heart; so study the situation. Sorry, too, that I could not go with you yesterday; in half an hour I go forth to my doctor for mre blood letting. I do feel like hell.

David LeCount Evans

DAVID LE COUNT EVANS, CONSULTING GEOLOGIST

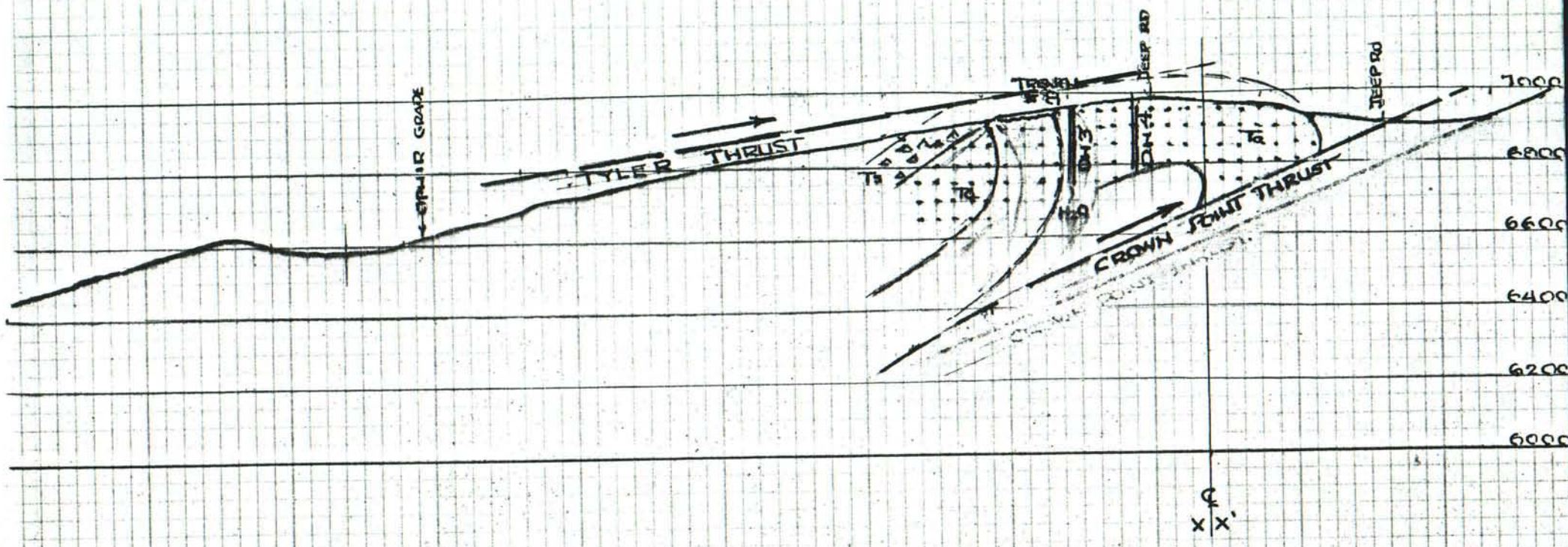


SECTION - L-L'
STAR GROUP
1 IN. = 400 FT.

JFE

6/21/84
6 18 84

L-L



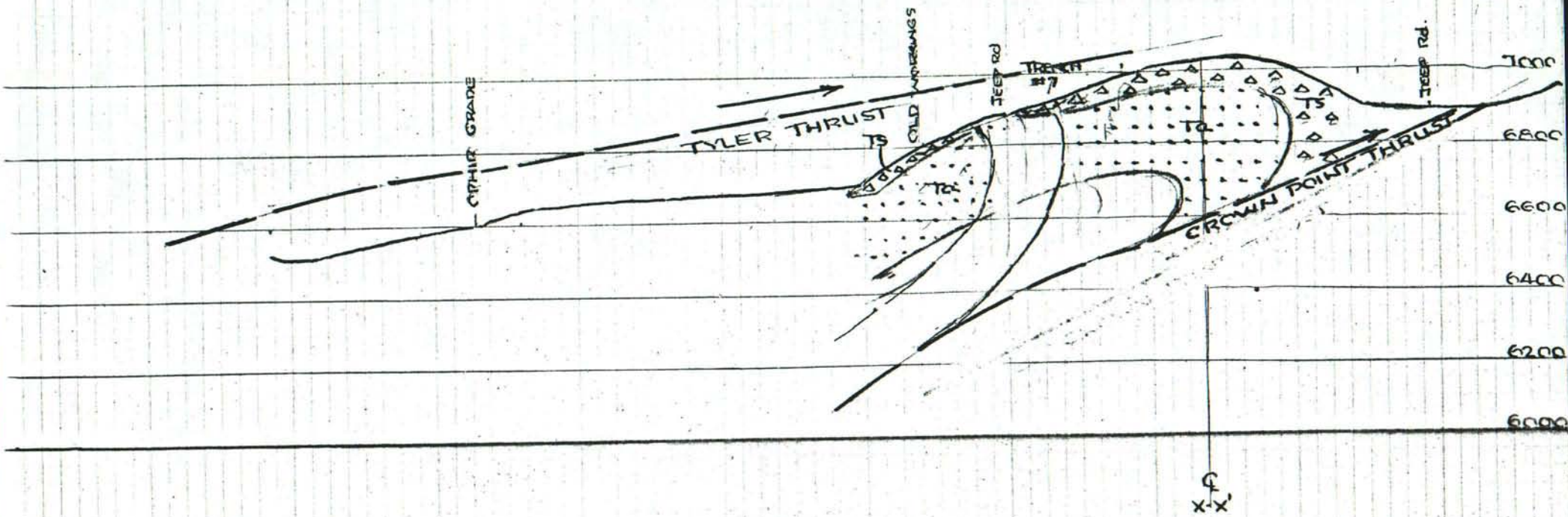
SECTION-K-K'

STAR GROUP

1 IN. = 400 FT.

DE

6/21/84
12/18/84



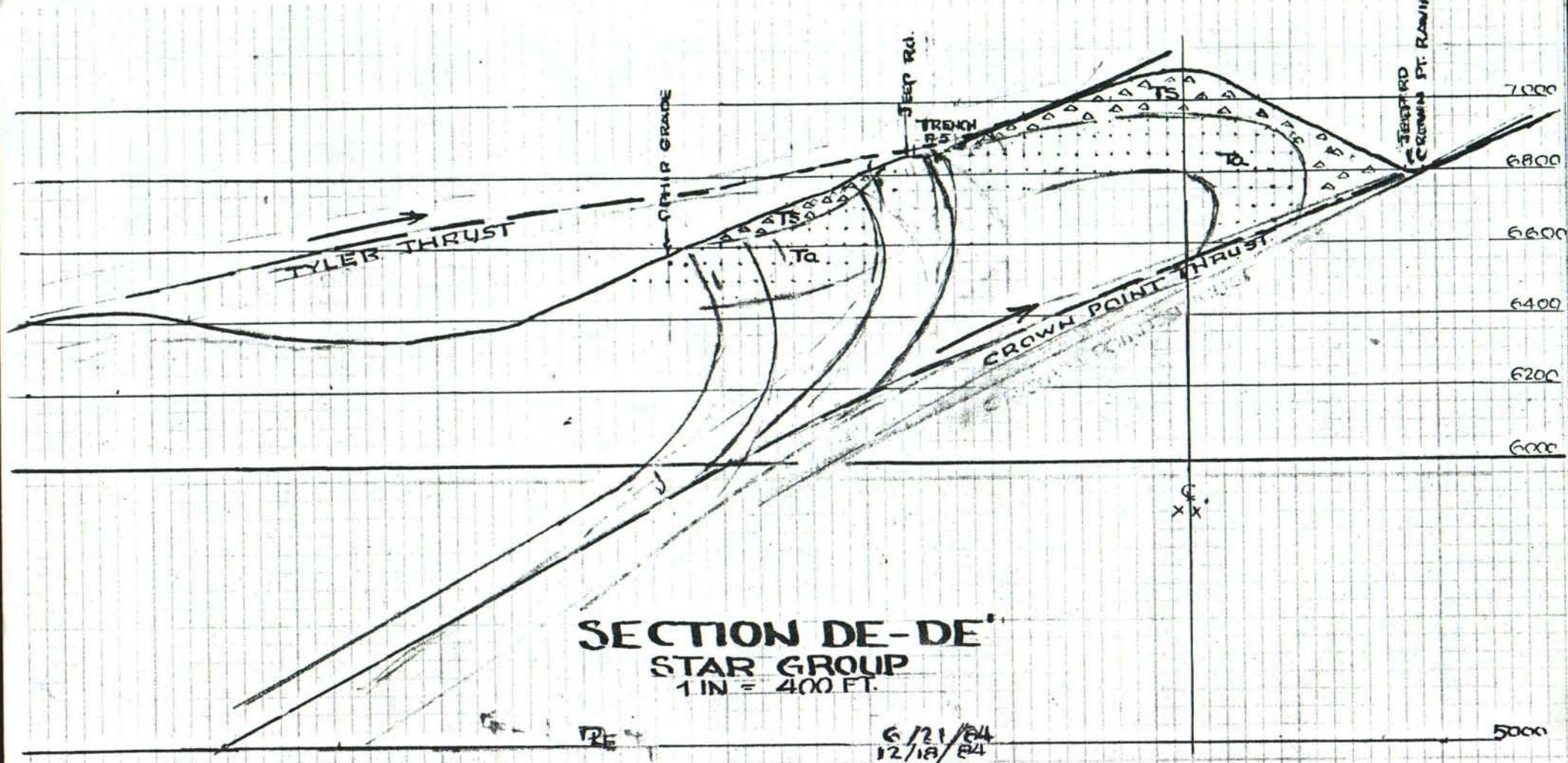
SECTION - J-J'

STAR GROUP

1 IN. = 400 FT.

TPE

6/21/84
12/18/84



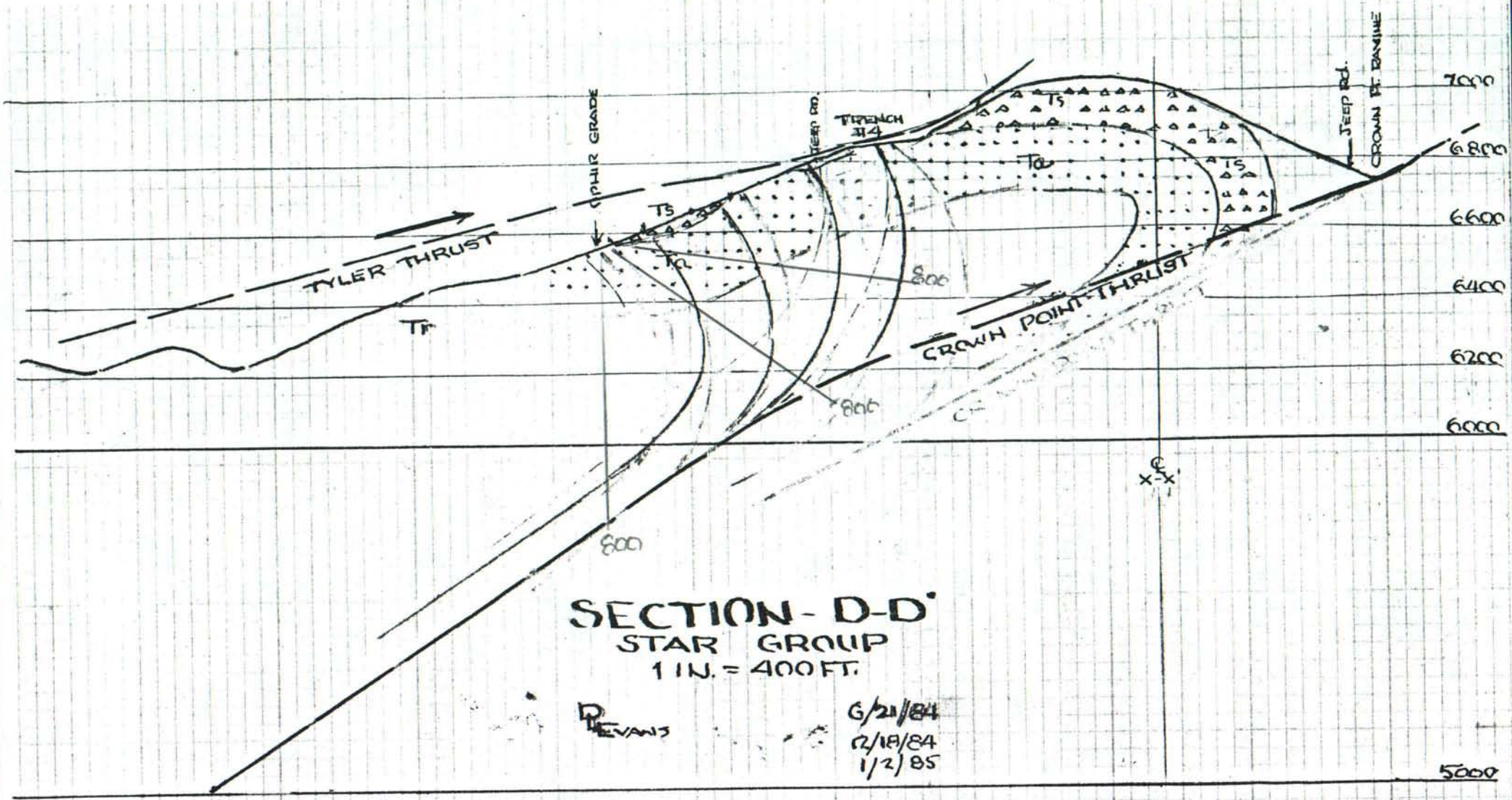
SECTION DE-DE'

STAR GROUP

1 IN = 400 FT.

6/21/84
12/18/84
1/2/85

4-138



SECTION - D-D'

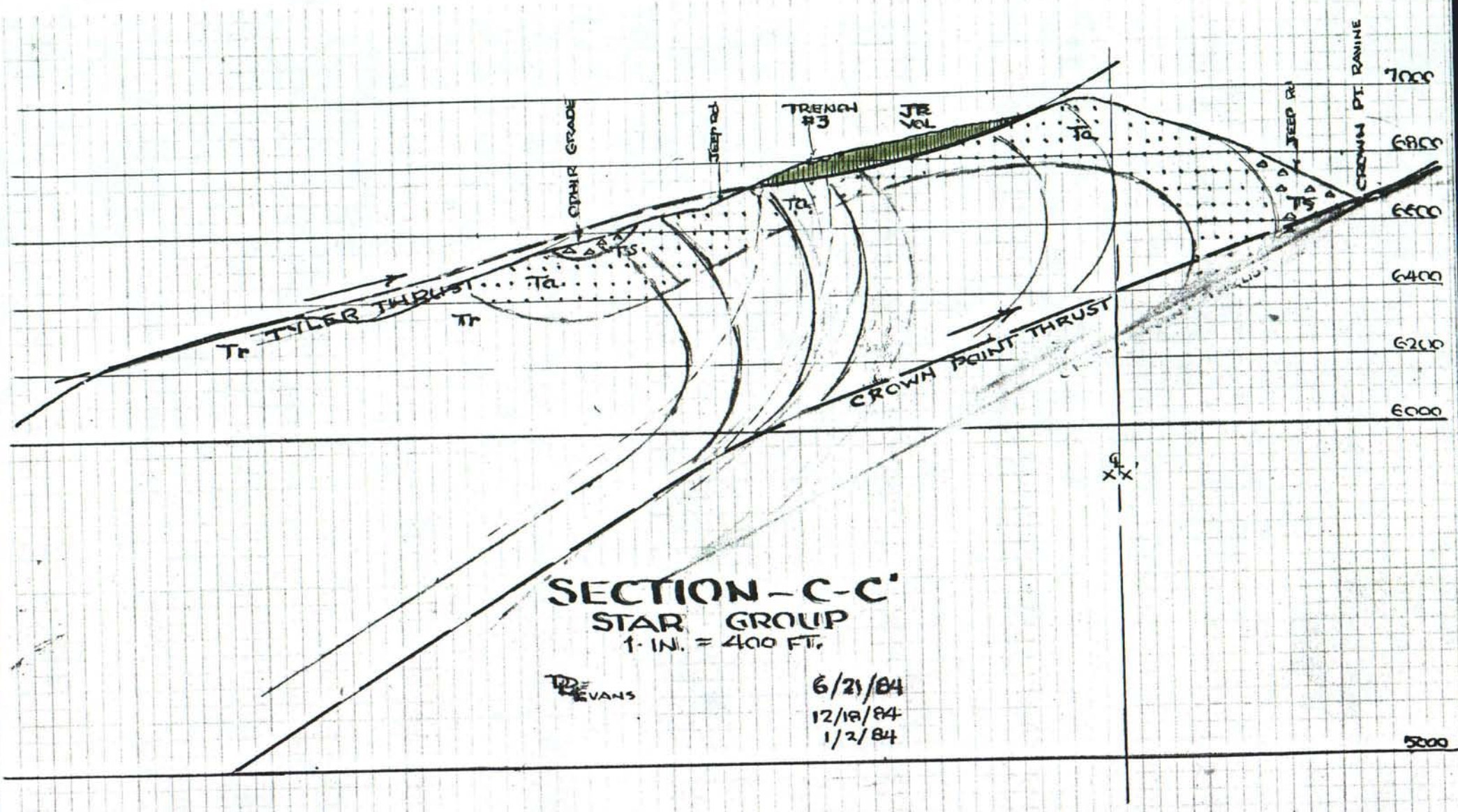
STAR GROUP

1 IN. = 400 FT.

D. EVANS

6/21/84
12/18/84
1/2/85

EL-1383



SECTION – C-C'

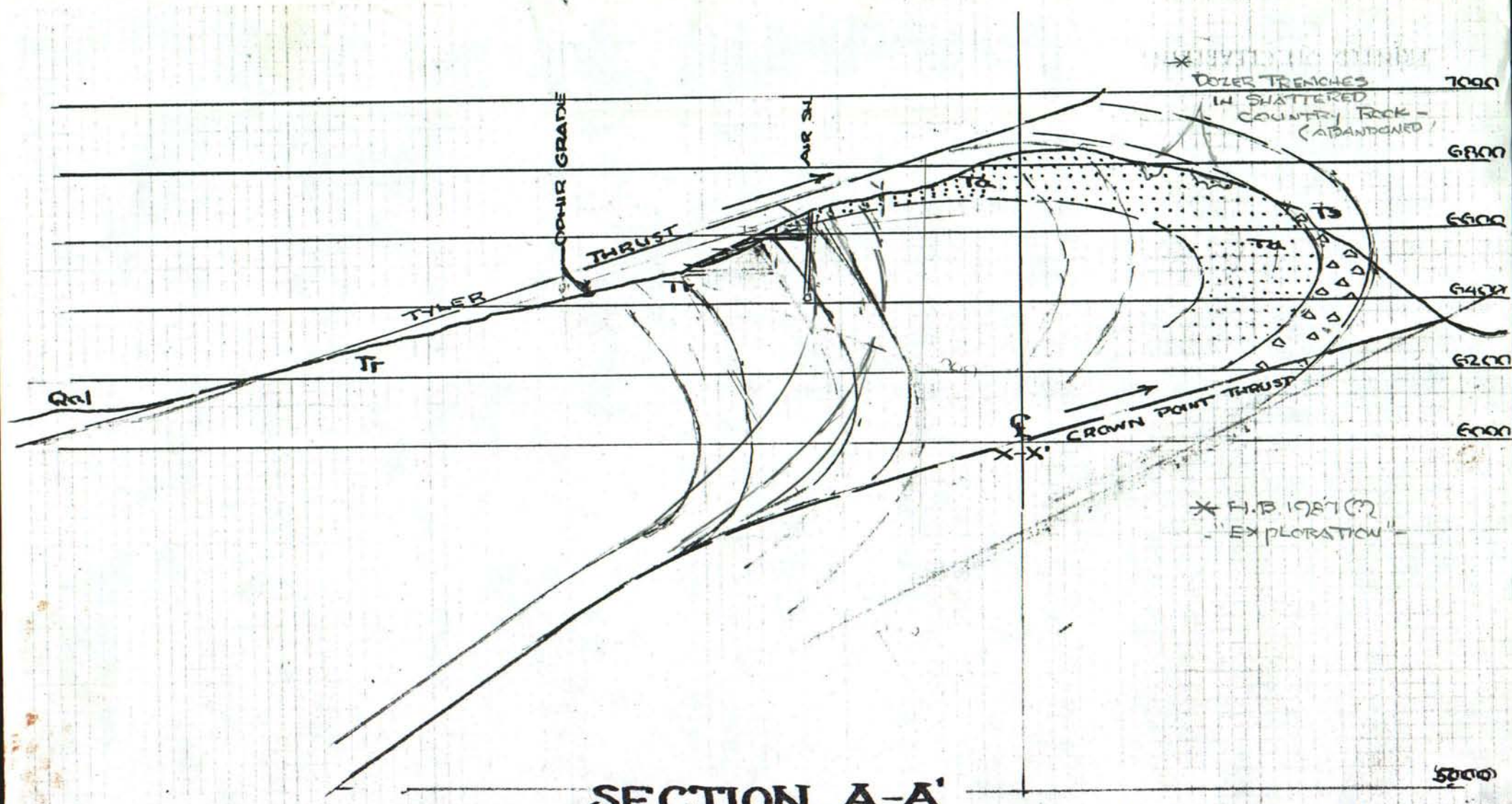
STAR GROUP

1 IN. = 400 FT.

TRE EVANS

6/21/84
12/18/84
1/2/84

C-C'



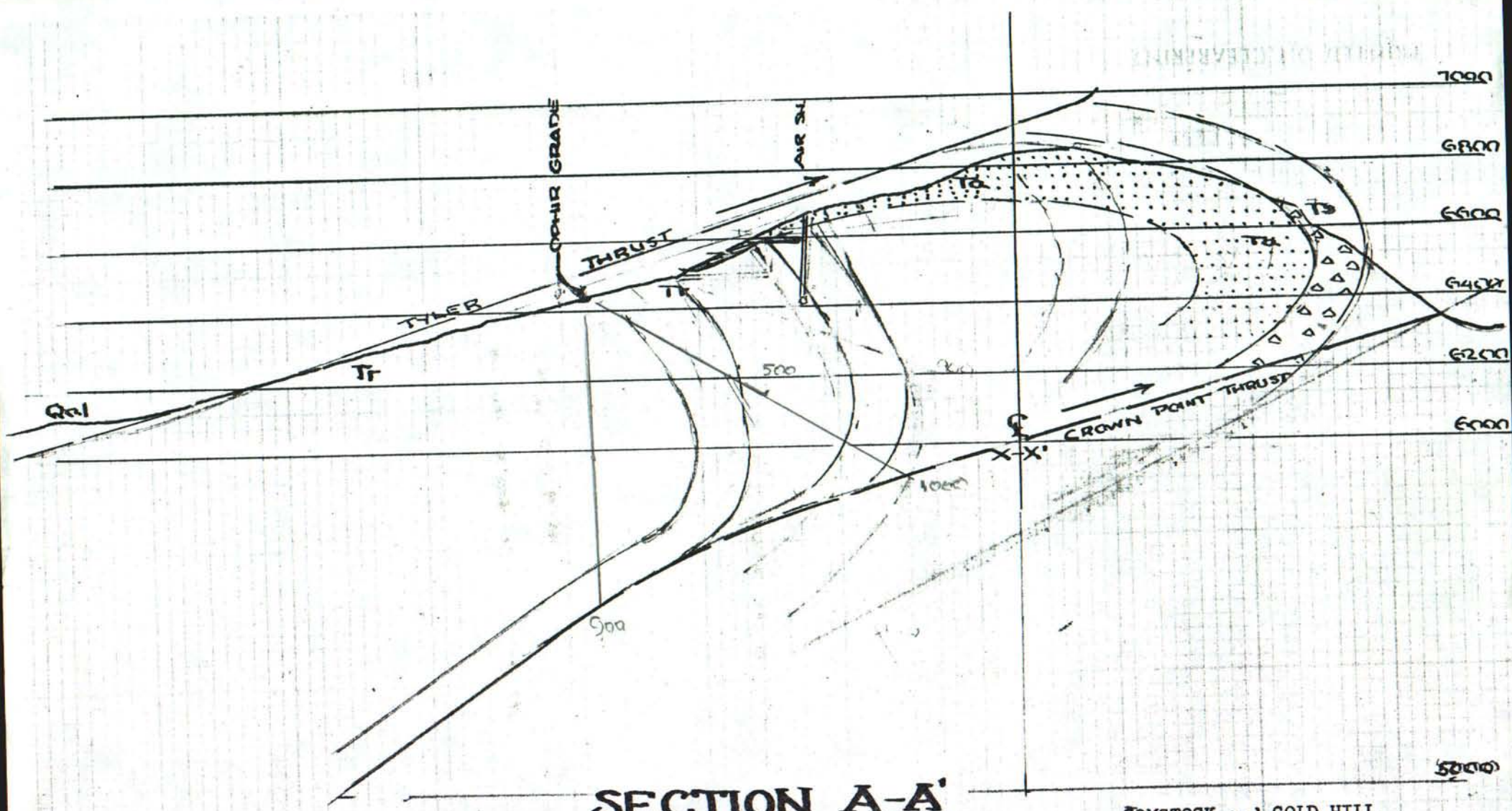
SECTION A-A'
STAR GROUP
1 IN. = 400 FT.
EXPLORATION

David LeCount Evans
Consulting Geologist
March 2, 1983
JAN. 2, 1985

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration



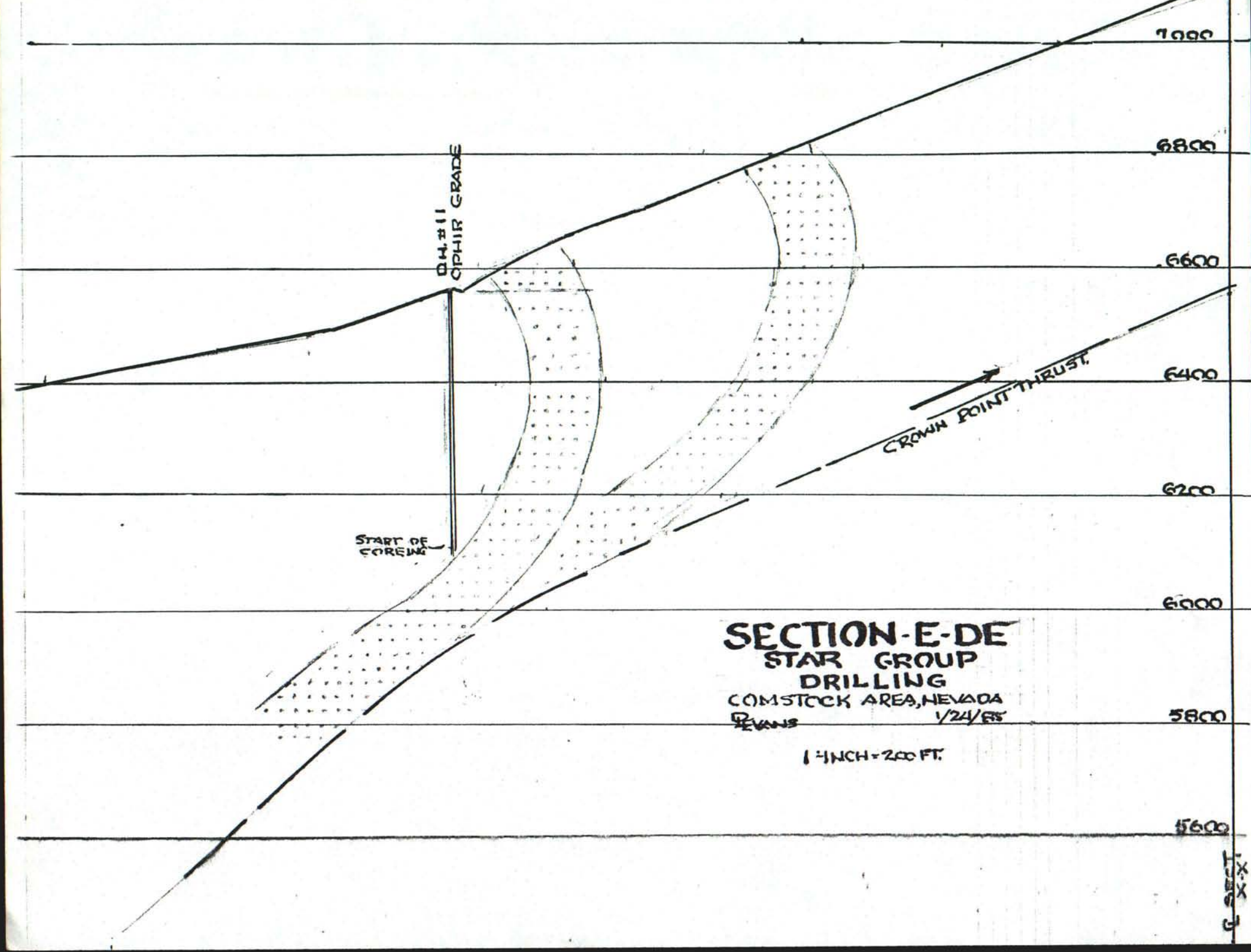
SECTION A-A'
STAR GROUP
1 IN. = 400 FT.
EXPLORATION

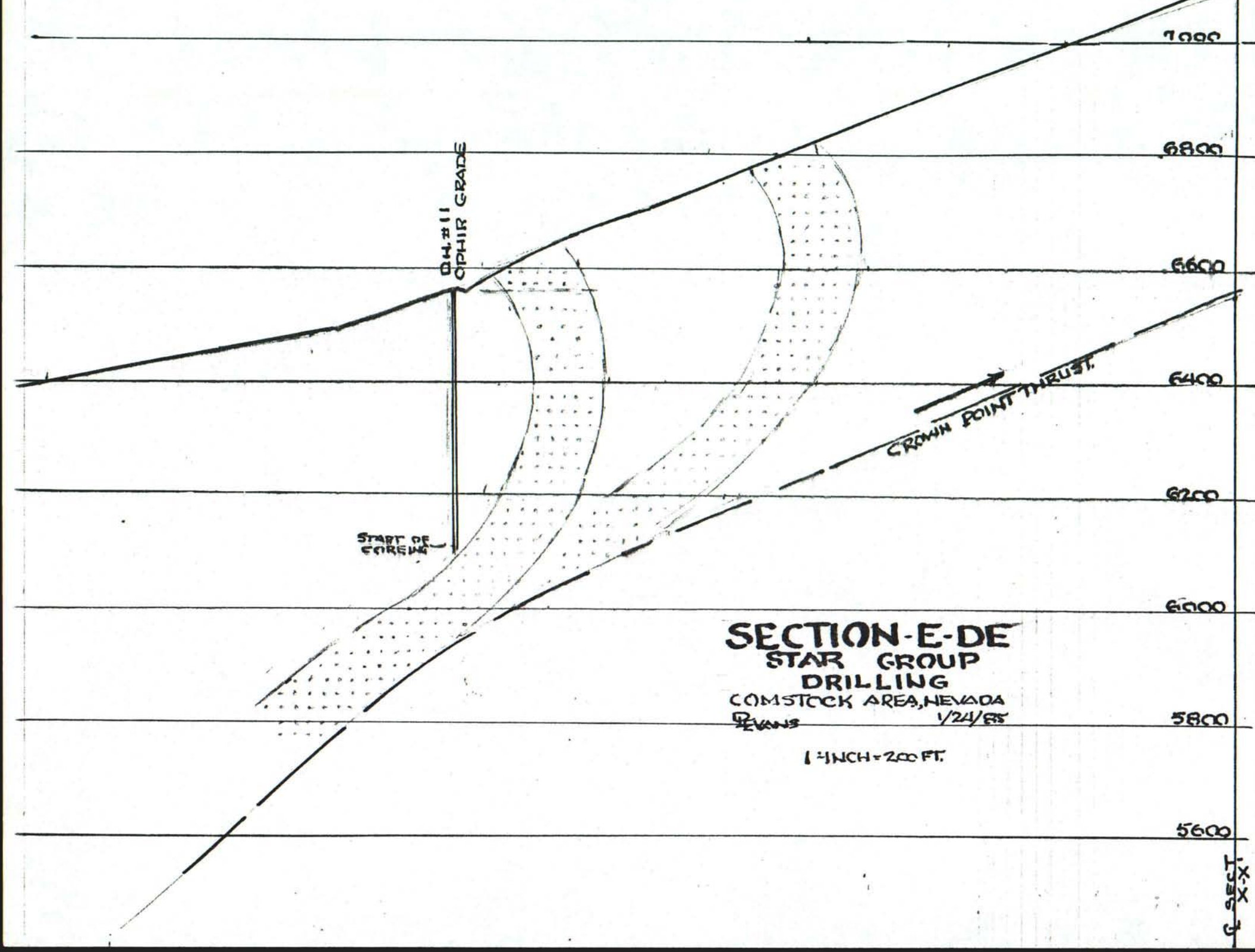
David LeCount Evans
Consulting Geologist
March 2, 1983
JAN. 2, 1985

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration


7000
6800
6600
6400
6200
6000
5800
5600
D.H. #11
OPHIR GRADE
START OF COREING
CROWN POINT THRUST.
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
D. EVANS
1/24/55
1 INCH = 200 FT.
G SECT X-X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6200
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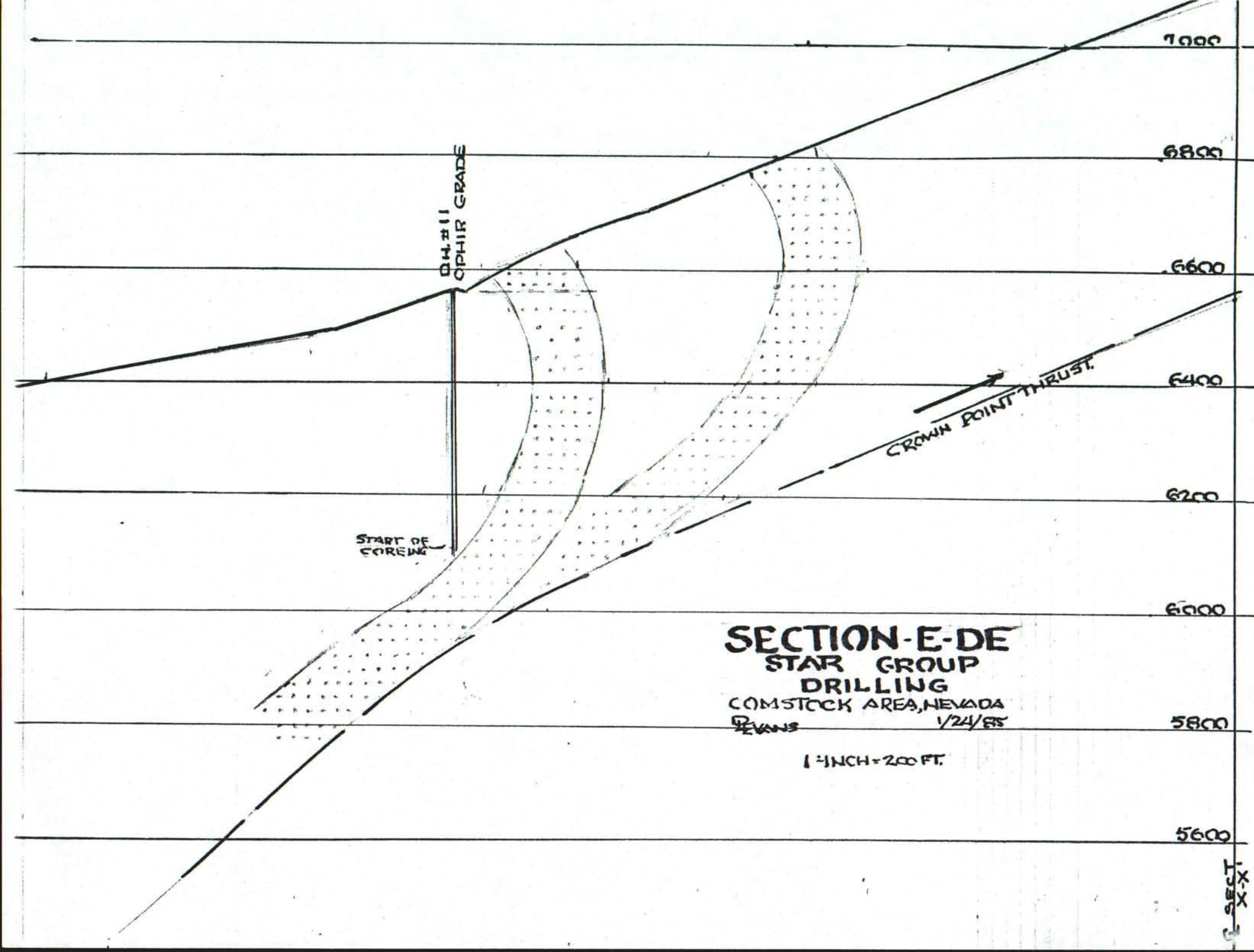
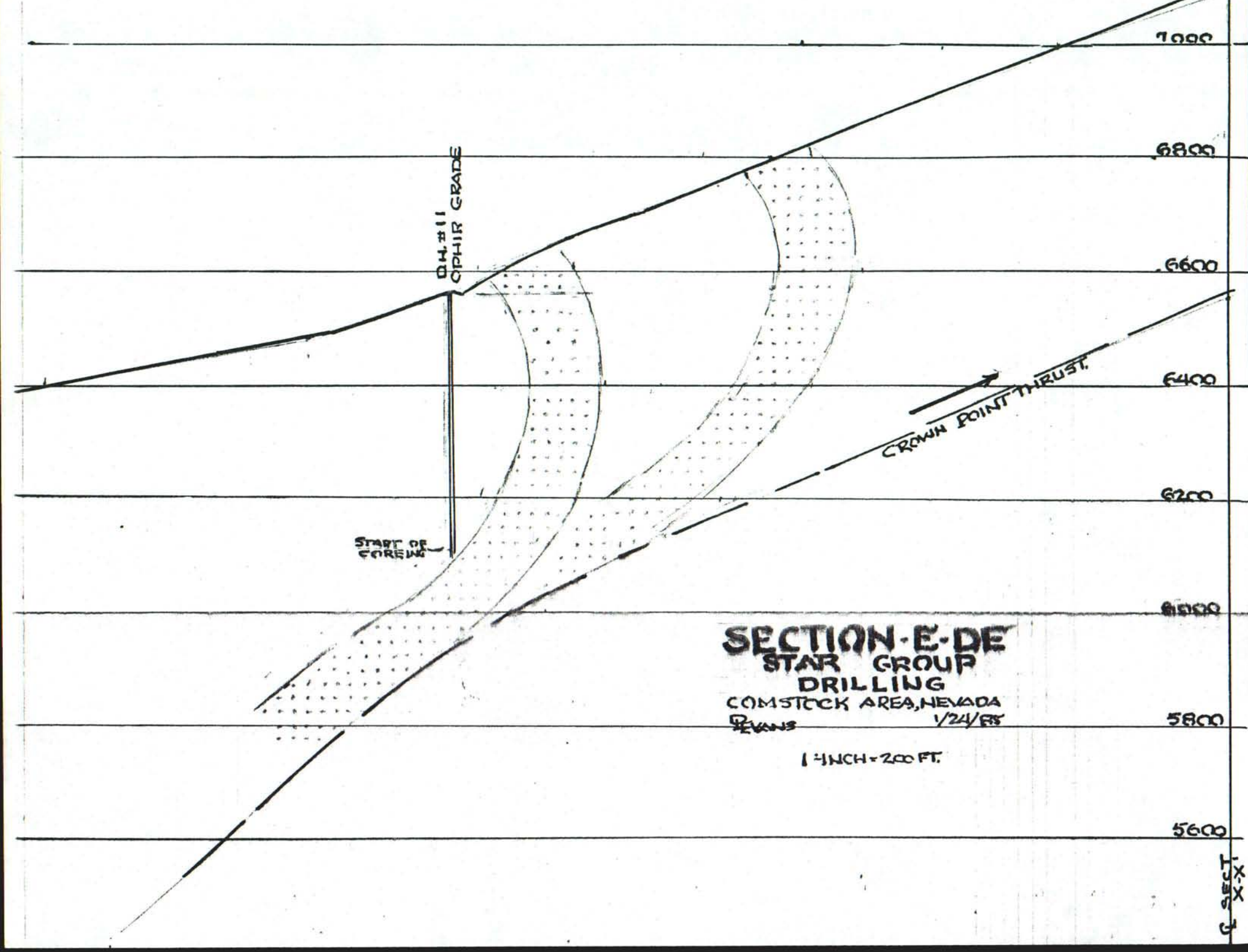
DH #11
CPHIR GRADE
START OF
CROWN POINT THRUST.
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
DEVANS 1/24/85
1 INCH = 200 FT.
SECT. X-X'



SECTION-E-DE
STAR GROUP DRILLING
COMSTOCK AREA, NEVADA

D. EVANS 1/24/85

1"=INCH=200 FT.


7000
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6200
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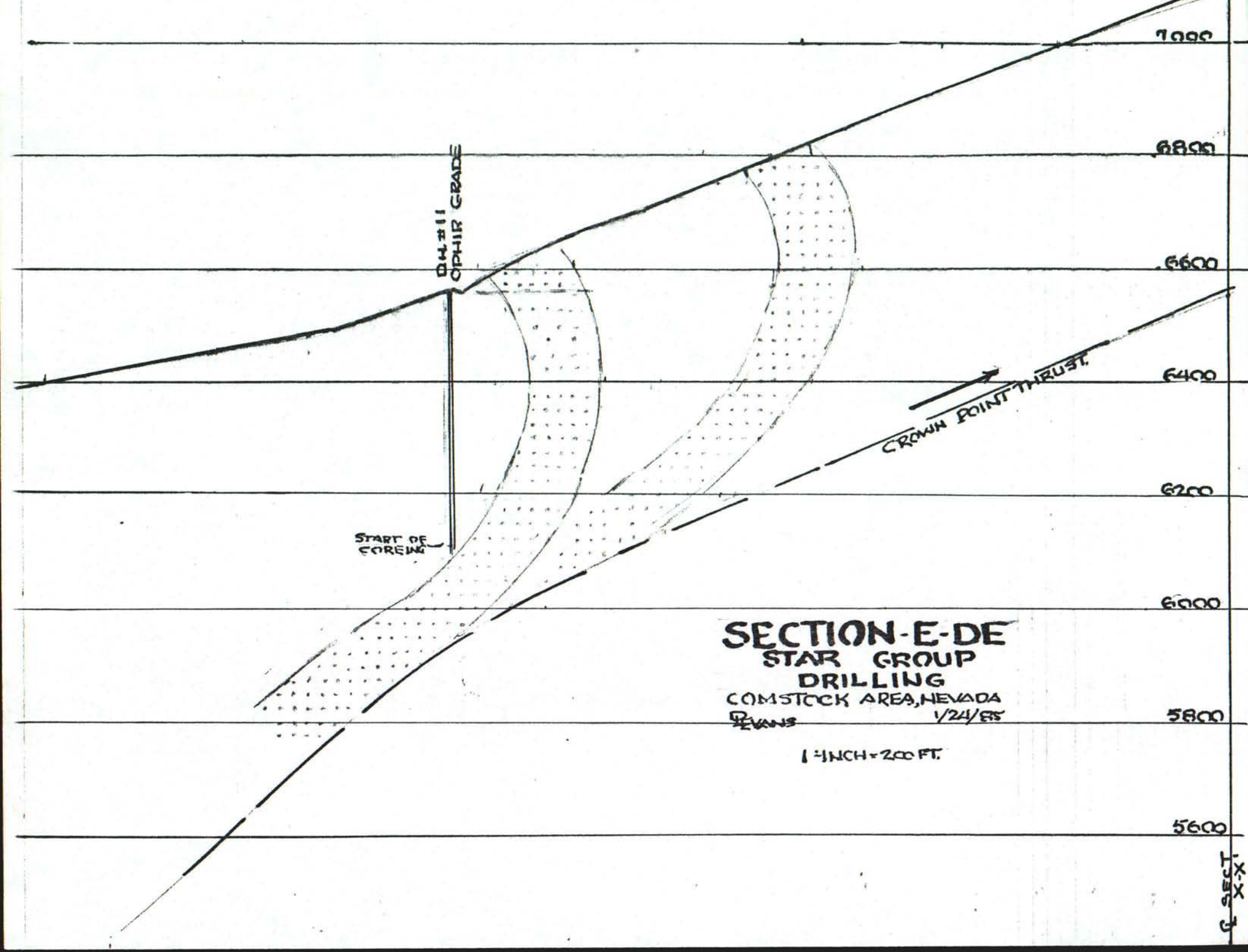
5800
5600
DH.#11
OPHIR GRADE
START OF CORE
CROWN POINT THRUST.
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
DEVANS
1/24/55
1 INCH = 200 FT.
SECT. X-X


7000
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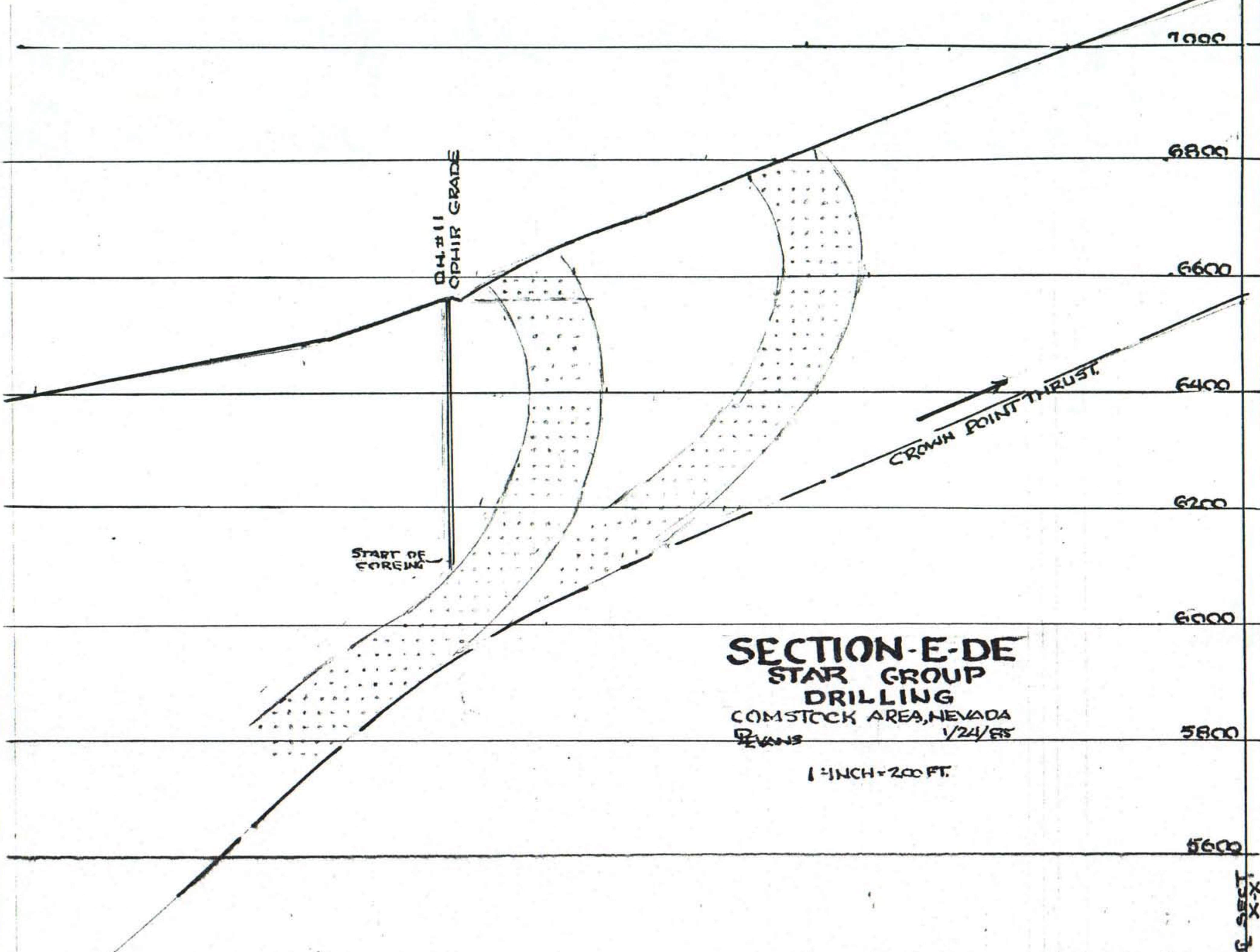
5600
DH#11
OPHIR GRADE
START OF COREING
CROWN POINT THRUST
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
D. EVANS 1/24/85
1-INCH=200 FT.
SECT. X-X'


7000
6800
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6200
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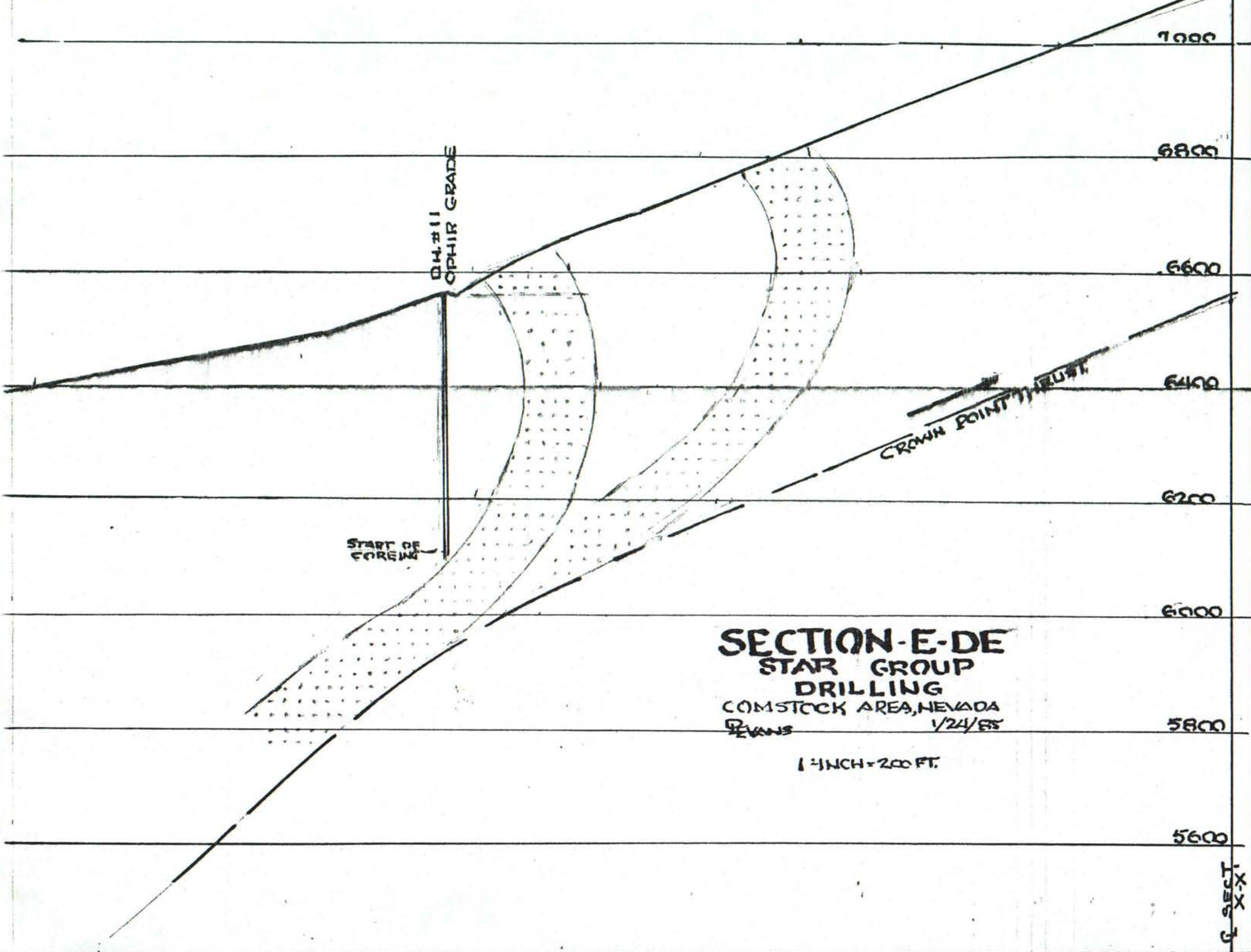
5800
5600
DH.#11
OPHIR GRADE
START OF
CROWN POINT THRUST.
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
1/24/85
1 INCH = 200 FT.
SECT X-X



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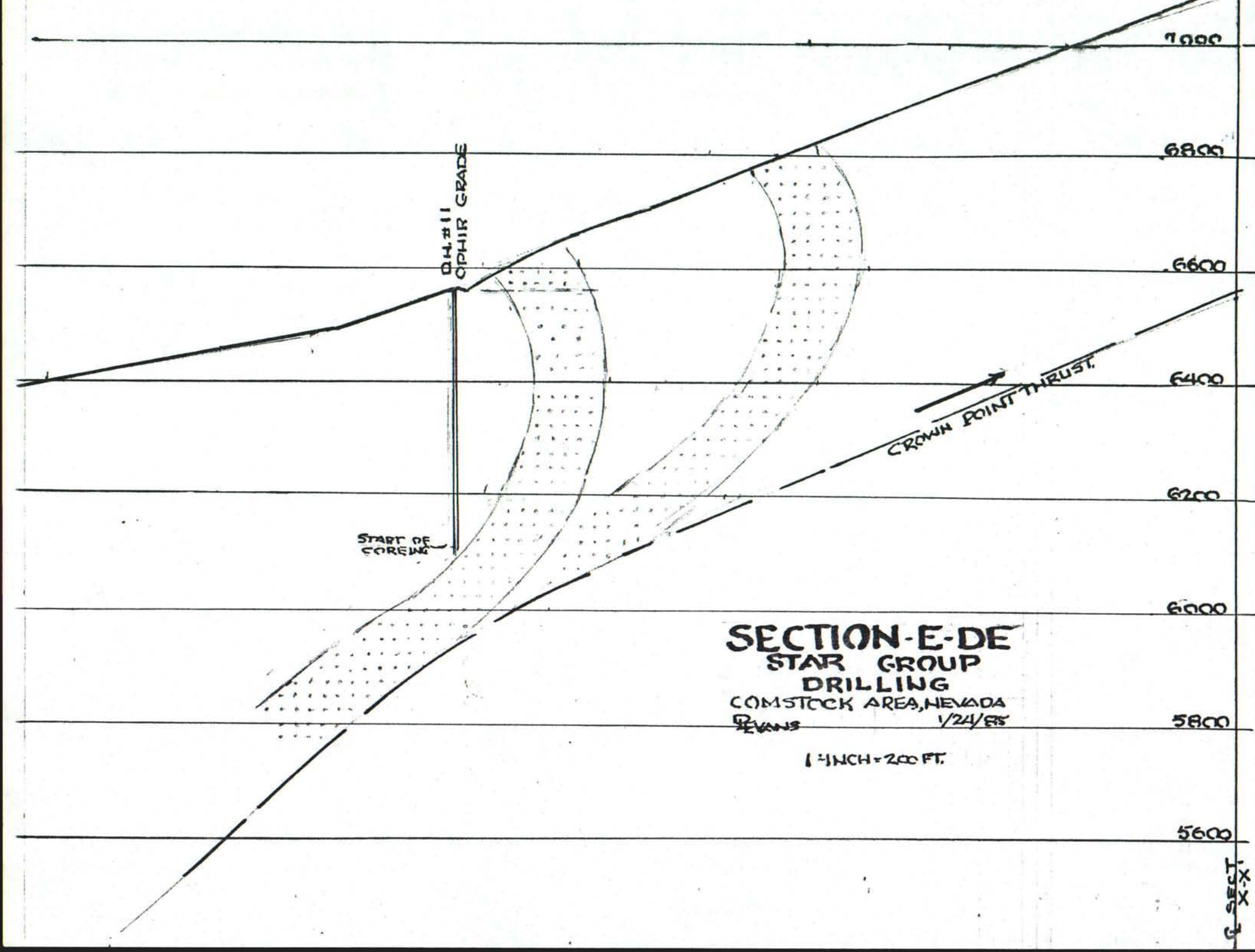
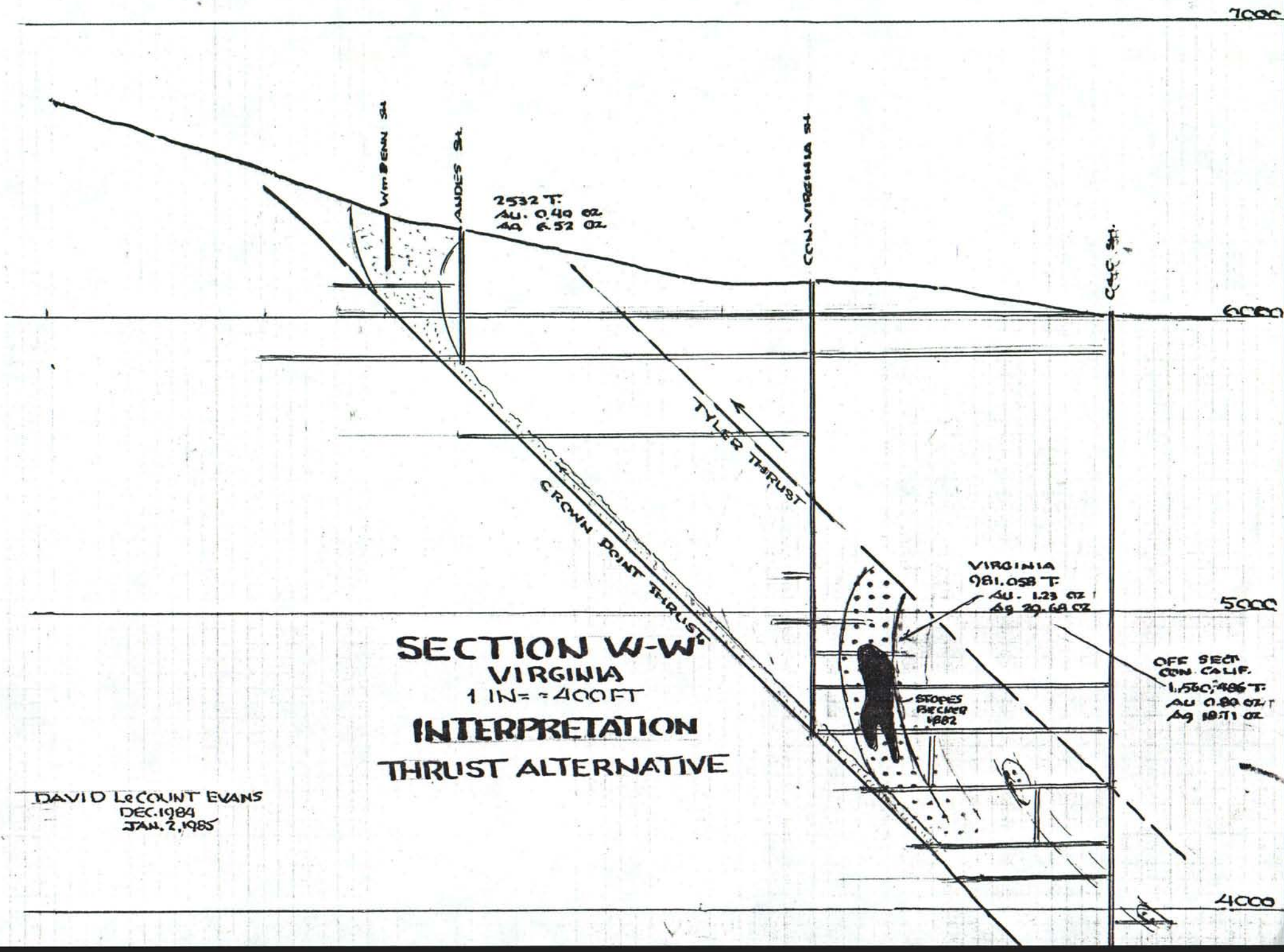
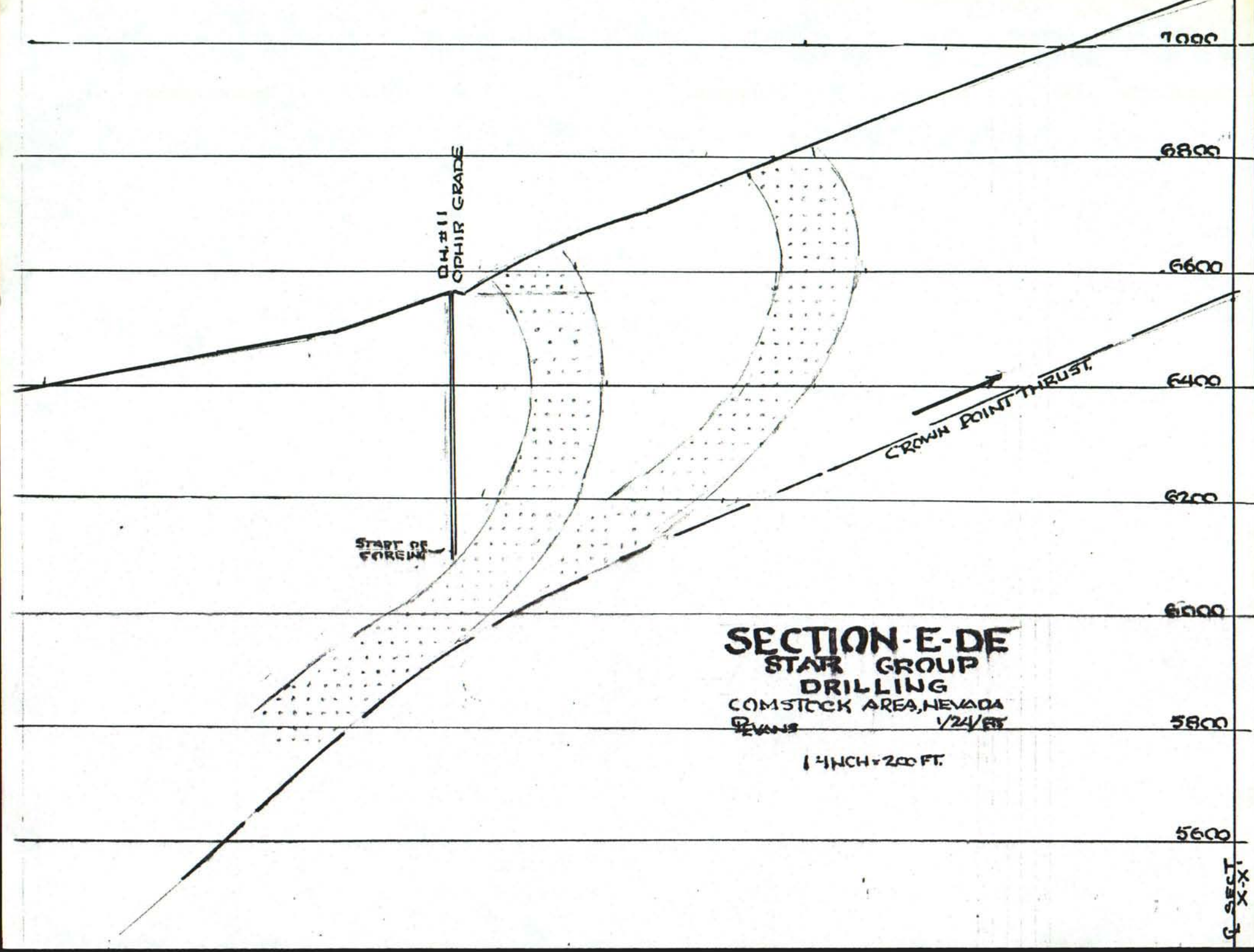
5600
D.H. #11
OPHIR GRADE
START OF CORING
CROWN POINT THRUST
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
D. EVANS 1/24/85
1 INCH = 200 FT.
℄ SECT. X-X'

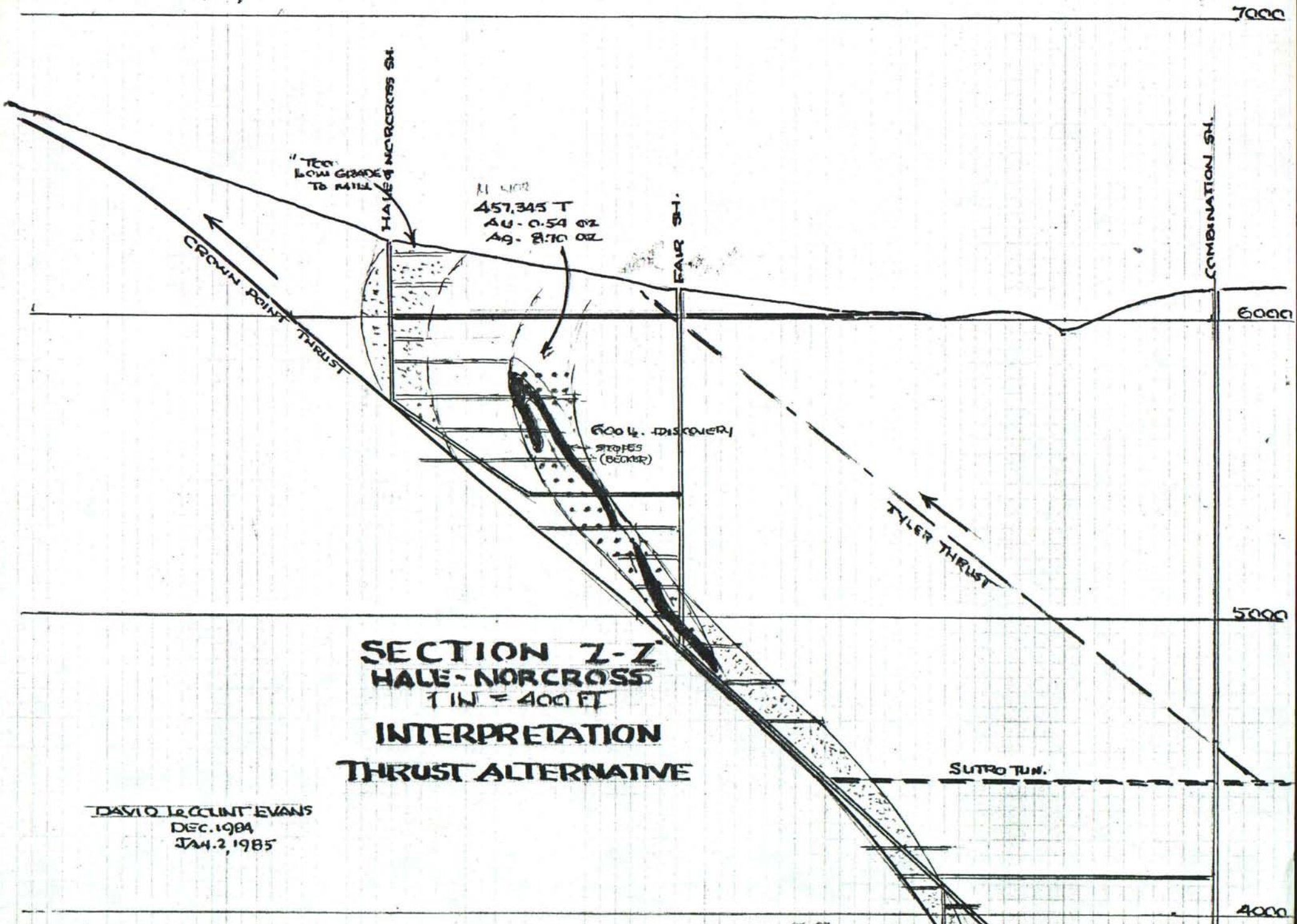

7000
6800
6600
6400
6200
6000
5800
5600
D.H.#11
OPHIR GRADE
START OF
CORE
CROWN POINT THRUST
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
D. EVANS 1/24/85
1 INCH = 200 FT.
SECT. X-X'



SECTION W-W'
VIRGINIA
1 IN = 400 FT
INTERPRETATION
THRUST ALTERNATIVE

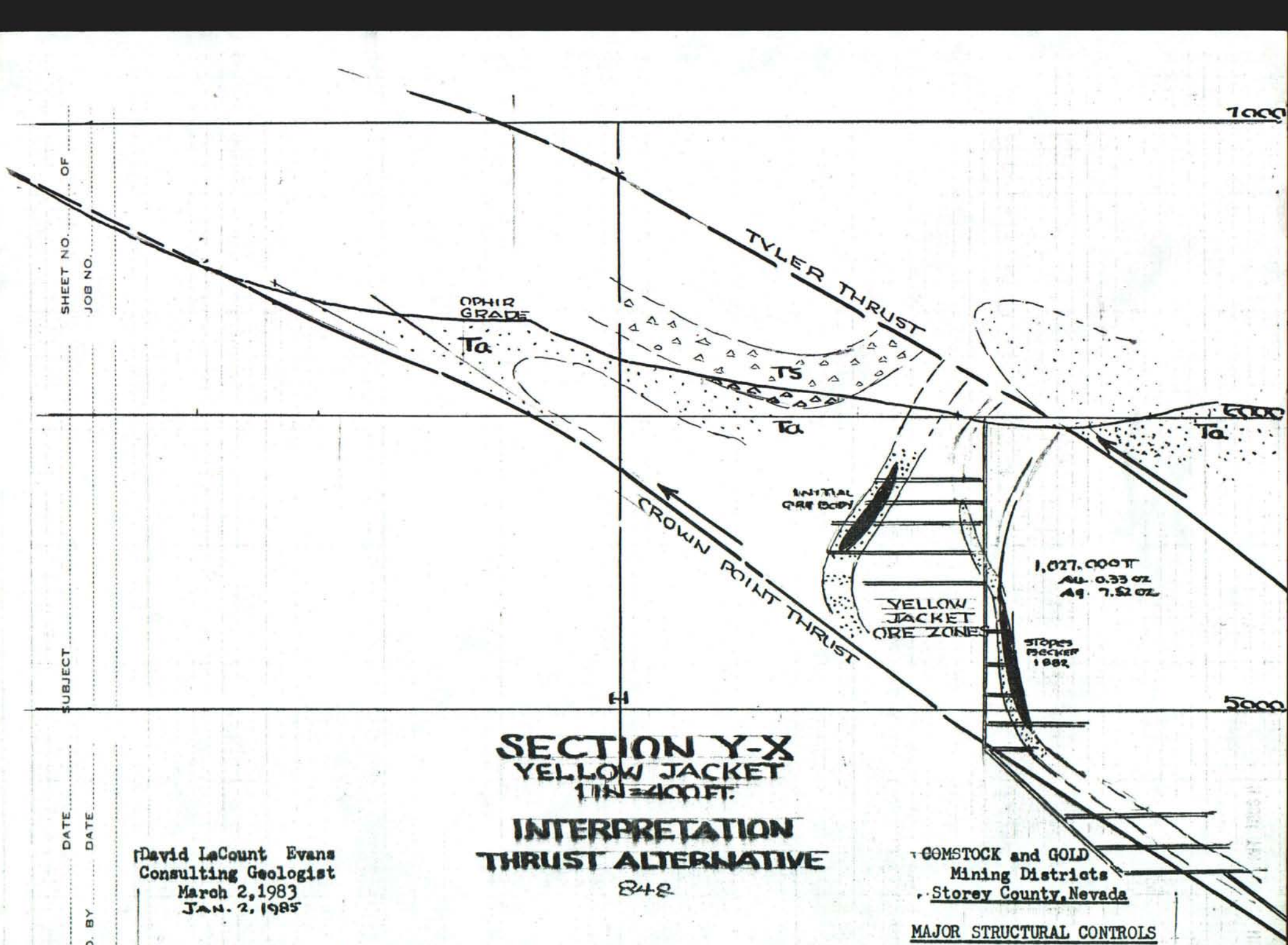
DAVID LeCOUNT EVANS
DEC. 1984
JAN. 2, 1985


7000
6800
6600
6400
6200
6000
5800
5600
DH.#11
OPHIR GRADE
START OF FOREIN
CROWN POINT THRUST.
SECTION-E-DE
STAR GROUP
DRILLING
COMSTOCK AREA, NEVADA
DEVANS 1/24/55
1 INCH = 200 FT.
SECT. X-X'



SECTION Z-Z'
HALE-NORCROSS
1 IN = 400 FT
INTERPRETATION
THRUST ALTERNATIVE

DAVID LeCLINT EVANS
DEC. 1984
JAN. 2, 1985



SECTION Y-X
YELLOW JACKET
1 IN = 400 FT.

INTERPRETATION
THRUST ALTERNATIVE

848

David LaCount Evans
Consulting Geologist
March 2, 1983
JAN. 2, 1985

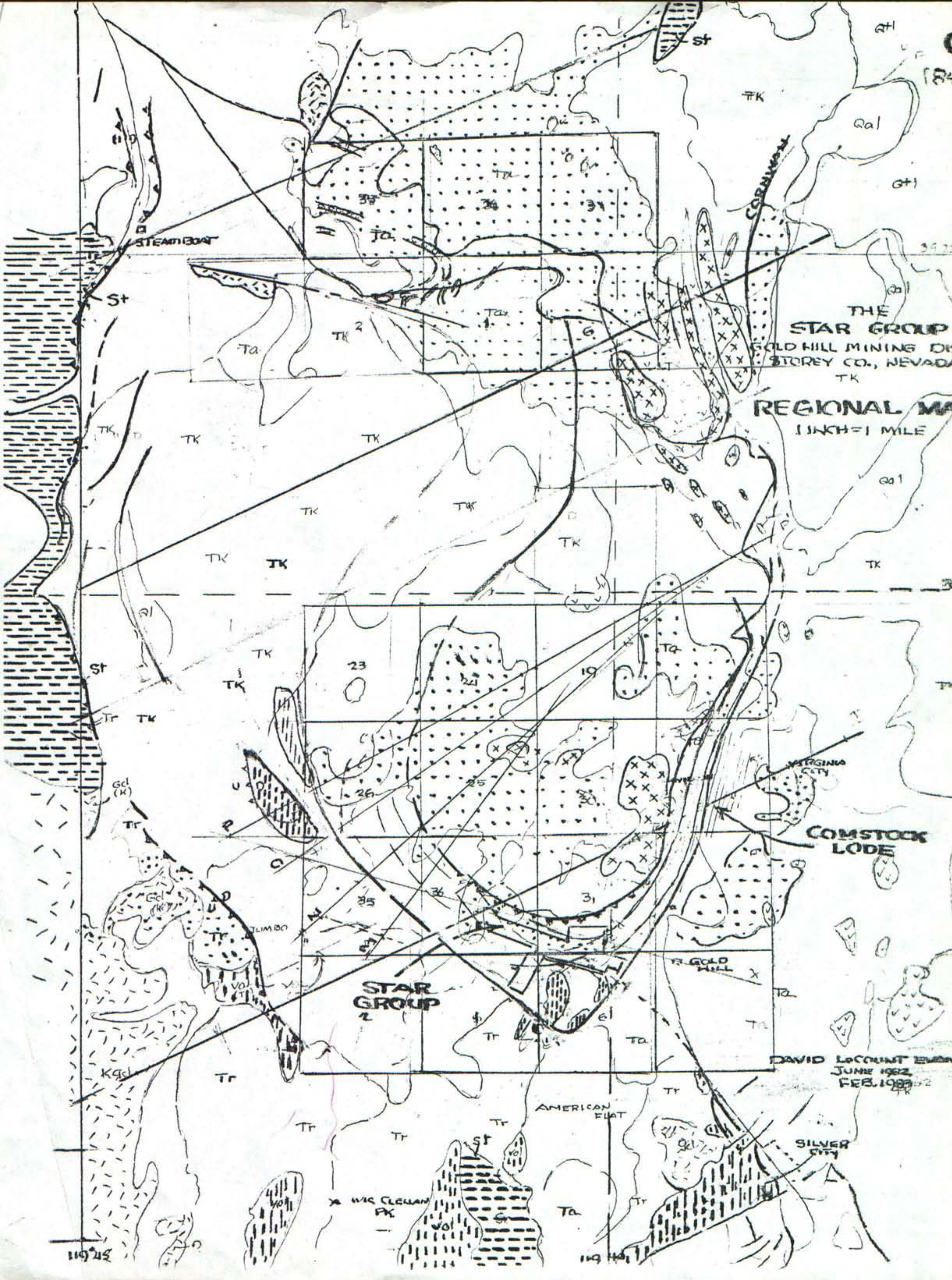
COMSTOCK and GOLD
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

IX-1

SUBJECT ..... SHEET NO. ..... OF .....
JOB NO. .....
BY ..... DATE .....
CHKD. BY ..... DATE .....


THE
STAR GROUP
GOLD HILL MINING
STOREY CO., NEVADA
REGIONAL
1 INCH=1 MILE
STEAMBOAT
COMSTOCK
LODE
VIRGINIA
CITY
STAR
GROUP
JUMBO
GOLD
HILL
AMERICAN
FLAT
SILVER
CITY
DAVID LeCOUNT
JUNE 1982
FEB.1983

DAVID LE COUNT EVANS
CONSULTING GEOLOGIST
1700 ROYAL DRIVE
TELEPHONE (702) 747-4101
RENO, NEVADA 89503

January 10, 1985

Mr. Harold Biaggini, President,
Buena Vista Mines,
1164 Market Street,
Morro Bay, California 93442.

Dear Harold:

The proposed Buena Vista Mines, Inc/Evans agreement, prepared by attorneys, Ogle, Gallo, and Merzon and left with me on January 8, has been studied with interest. Enclosed please find the copy, returned and unsigned.

With reference to Paragraph 5 on page 1, I quote:

> "Both before and after July 27, 1984, Evans has rendered valuable advice to BVM etc - - - - -. This instant agreement is intended to, and shall, compensate Evans in full for the rendering of such advice as well as any and other activities in any manner, pertaining to Evans' past, present or <u>future</u> knowledge of , or advice concerning possible minerals in and <u>about</u> the property described in Exhibit A.".

Note that such would limit my activities throughout the entire Comstock district(ie: in and about), even to the extent of publishing since the information would be the property of Buena Vista Mines. Such would be unacceptable.

Personal Comstock interest and efforts on behalf of other clients (as a member of the Board of Consolidated Chollar from 1967 to 1968, and field studies for Texas Gas Transmission from 1970 through 1972) reflect eighteen years of recent background; which includes, of course, the two and one half years devoted to the Star Group. Ideas, therefore, have burgeoned and to be, thus, curtailed in future efforts, cannot be considered.

Even if I did acquiesce, the proposal that for any new discoveries, there would be no increase in the $100,000 figure (page 2, paragraph 2) is unbelievable

The eighteen years outlined above have developed the conviction that there will be no new major discoveries, through the dependence on orthodox interpretations, first proposed in the 1860's and 70's, further advanced by Becker in 1882 and partially supported by Calkins, Thompson and Giannela, as well as others in recent years.

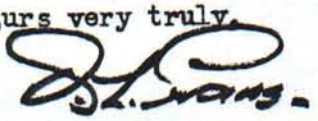
For that reason, my approach to the importance of thrust faulting, as it has developed, has suggested an opportunity.

When getting you together with Messrs. Curran and Antunovich, as well as, providing you with copies of the Star Group series of studies, it was my hope that this new structural approach would be tested.

Such has not been seriously attempted and the writer continues to be a "Hair Shirt" in your program. Apparently, I cannot get my structural reasoning across and feel, as well as urge , that you should seek other geological advise and assistance.

Be assured that I wish you well.

Yours very truly,



David LeCount Evans

AGREEMENT

This Agreement is made and entered into as of _____ between BUENA VISTA MINES, a California corporation, hereafter referred to as "BVM", and DAVID LE COUNT EVANS, hereafter referred to as "EVANS".

On July 27, 1984, BVM entered into an "Option to Lease and Purchase" with John E. Curran and Louise M. Curran, husband and wife, and GEORGE ANTUNOVICH, a single man, as "lessors" and BVM as optionee and lessee. By the terms of such instrument, BVM has until January 1, 1985, to exercise certain option rights to enter into a lease--purchase agreement with such lessors. The agreement pertains to certain unpatented mining claims situate in the Gold Hill Mining District in Storey and Washoe Counties, Nevada which are described in Exhibit "A" to this instant Agreement.

Should such lease come in to being as of January 1, 1985, and should mining activities thereafter conducted by BVM be instituted and operated at a profit thereafter, BVM is obligated to pay such lessors a certain percentage (which is confidential as between BVM and such lessors) of the gross of all sales of gold, silver, and other ores, metals, or concentrates taken from such mining claims. The method of payment by BVM of such percentage (taken verbatim from the agreement between BVM and such lessors) is attached hereto marked Exhibit "B".

By reference, both Exhibits A and B hereto are incorporated herein.

Both before and after July 27, 1984, EVANS has rendered valuable advice to BVM which the parties will characterize as advice pertaining to the geology of the area described in Exhibit A and also exploration advice. This instant Agreement is intended to, and shall, compensate EVANS in full for the rendering of such advice as well as any and other activities, in any manner, pertaining to EVANS' past, present or future knowledge of, or advice concerning possible minerals in and about the property described in Exhibit A. NO

Should BVM become lessee of such properties and, thereafter, extract any minerals in paying quantities then, in that event,

BVM, in addition to the percentage of gross sales to be paid to such lessors, shall pay EVANS 1/2 of 1 percent of net smelter returns, calculated and payable in the same manner as set forth in Exhibit "B" hereto, from the "Star" group of claims, as per Exhibit "A" attached hereto.

The maximum payments to EVANS shall, however, be limited to $100,000.00 At such time the payments of 1/2 of 1 percent of such net smelter returns, made to EVANS, totals the sum of $100,000.00 then, in that event, EVANS shall be deemed compensated in full and shall be entitled to no further compensation, whether by a percent of net smelter returns, or otherwise.

EVANS has also given such geological and exploration advice to HAROLD J. BIAGGINI (BVM'S principal) and his son ED BIAGGINI, III. EVANS agrees to make no claim whatever against these individuals who have secured and utilized such advice on behalf of BVM.

This instrument contains the entire agreement between the parties relating to the successive options herein granted. Any oral representations or modifications concerning this instrument shall be of no force or effect except in a subsequent modification in writing signed by the parties hereto.

This agreement is executed and intended to be performed in the State of California, and the laws of that state shall govern its interpretation and effect.

This agreement shall bind and inure to the benefit of the respective heirs, personal representatives, successors, and assigns of the parties hereto.

The parties may execute this agreement in two (2) or more counterparts, which shall be signed by all parties, each counterpart shall be deemed an original instrument as against any party who has signed it.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

BUENA VISTA MINES

By_____

HAROLD J. BIAGGINI, President

_____

DAVID LE COUNT EVANS

Those unpatented lode claims listed below, situate in Sections 31 and 6 R 21 E in Storey County and Washoe County, Nevada, Sections 36 and 1 R 20 E Washoe County, Nevada. Such Sections 36 and 31 are situate in T 17 N; such Sections 1 and 6 are located in T 16 N.

(a) Such claims are listed with the Bureau of Land Management under N-MC Nos. 35032 through 35044.

Western Star;
Silver Star;
Midnight Star;
Morning Star;
New Star;
South Half Portion of Volcano;
Moonlight;
Northern Star;
Bright Star;
Evening Star;
Blue Star;
Luster Star (as amended);
South Star (as amended);
Willow Star;
Falling Star.

Together with all appurtenant rights possessed or to which such claims are entitled to, including millsite rights and water rights.

EXHIBIT "A"

LAW OFFICES

OGLE, GALLO & MERZON

12/28/84

TO: HAROLD BIAGGINI

FROM: CEO

RE: BUENA VISTA MINES, INC./EVANS AGREEMENT

Here is an original and duplicate original. Both must be dated the same date and it should be done before the first of the year. You can either sign both and hand carry to Evans or, sign both, mail to Evans for his signature on both and have him return them to you.

CEO:cc

Copy for your file enclosed together with papers you left at O G & M office

ASSUMING A 1000T/DAY OPERATION — AND BONANZA GRADE OF 0.82 oz Au + 10.69 oz Ag (BELCHER) — ONE WOULD ESTIMATE PER MONTH

30,000 TONS WITH GROSS VALUE OF
Au @ 300 + Ag 6.00

Au 246
Ag 64
$310

310 x 30,000 = $9,300,000 GROSS
6,500,000 M.S.R ±

.1% = 6,500 — THIS ON BONANZA TYPE-ORE

OR — AVERAGE ~ YELLOW JACKET TYPE
Au — .33 oz. = '99
Ag 7.5 = 45
$144

A 500 TON OPERATION

15,000/mo = 2,160,000 — GROSS
1,620,000 NSR

.1% = 1620/mo — 62 MONTHS 5 YEARS

PROBABLY UNECONOMIC.

DAVID LE COUNT EVANS
CONSULTING GEOLOGIST
1700 ROYAL DRIVE
TELEPHONE (702) 747-4101
RENO, NEVADA 89503

January 10, 1985

Mr. Harold Biaggini, President,
Buena Vista Mines,
1164 Market Street,
Morro Bay, California 93442.

Dear Harold:

The proposed Buena Vista Mines, Inc/Evans agreement, prepared by attorneys, Ogle, Gallo, and Merzon and left with me on January 8, has been studied with interest. Enclosed please find the copy, returned and unsigned.

With reference to Paragraph 5 on page 1, I quote:

> "Both before and after July 27, 1984, Evans has rendered valuable advice to BVM etc - - - - -. This instant agreement is intended to, and shall, compensate Evans in full for the rendering of such advice as well as any and other activities in any manner, pertaining to Evans' past, present or <u>future</u> knowledge of , or advice concerning possible minerals in and <u>about</u> the property described in Exhibit A.".

Note that such would limit my activities throughout the entire Comstock district(ie: in and about), even to the extent of publishing since the information would be the property of Buena Vista Mines. Such would be unacceptable.

Personal Comstock interest and efforts on behalf of other clients (as a member of the Board of Consolidated Chollar from 1967 to 1968, and field studies for Texas Gas Transmission from 1970 through 1972) reflect eighteen years of recent background; which includes, of course, the two and one half years devoted to the Star Group. Ideas, therefore, have burgeoned and to be, thus, curtailed in future efforts, cannot be considered.

Even if I did acquiesce, the proposal that for any new discoveries, there would be no increase in the $100,000 figure (page 2, paragraph 2) is unbelievable

The eighteen years outlined above have developed the conviction that there will be no new major discoveries, through the dependence on orthodox interpretations, first proposed in the 1860's and 70's, further advanced by Becker in 1882 and partially supported by Calkins, Thompson and Giannela, as well as others in recent years.

For that reason, my approach to the importance of thrust faulting, as it has developed, has suggested an opportunity.

When getting you together with Messrs. Curran and Antunovich, as well as, providing you with copies of the Star Group series of studies, it was my hope that this new structural approach would be tested.

Such has not been seriously attempted and the writer continues to be a "Hair Shirt" in your program. Apparently, I cannot get my structural reasoning across and feel, as well as urge , that you should seek other geological advise and assistance.

Be assured that I wish you well.

Yours very truly,

David LeCount Evans

DAVID LE COUNT EVANS
CONSULTING GEOLOGIST
1700 ROYAL DRIVE
TELEPHONE (702) 747-4101
RENO, NEVADA 89503

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Be assured that I wish you well.

Yours very truly,

David LeCount Evans

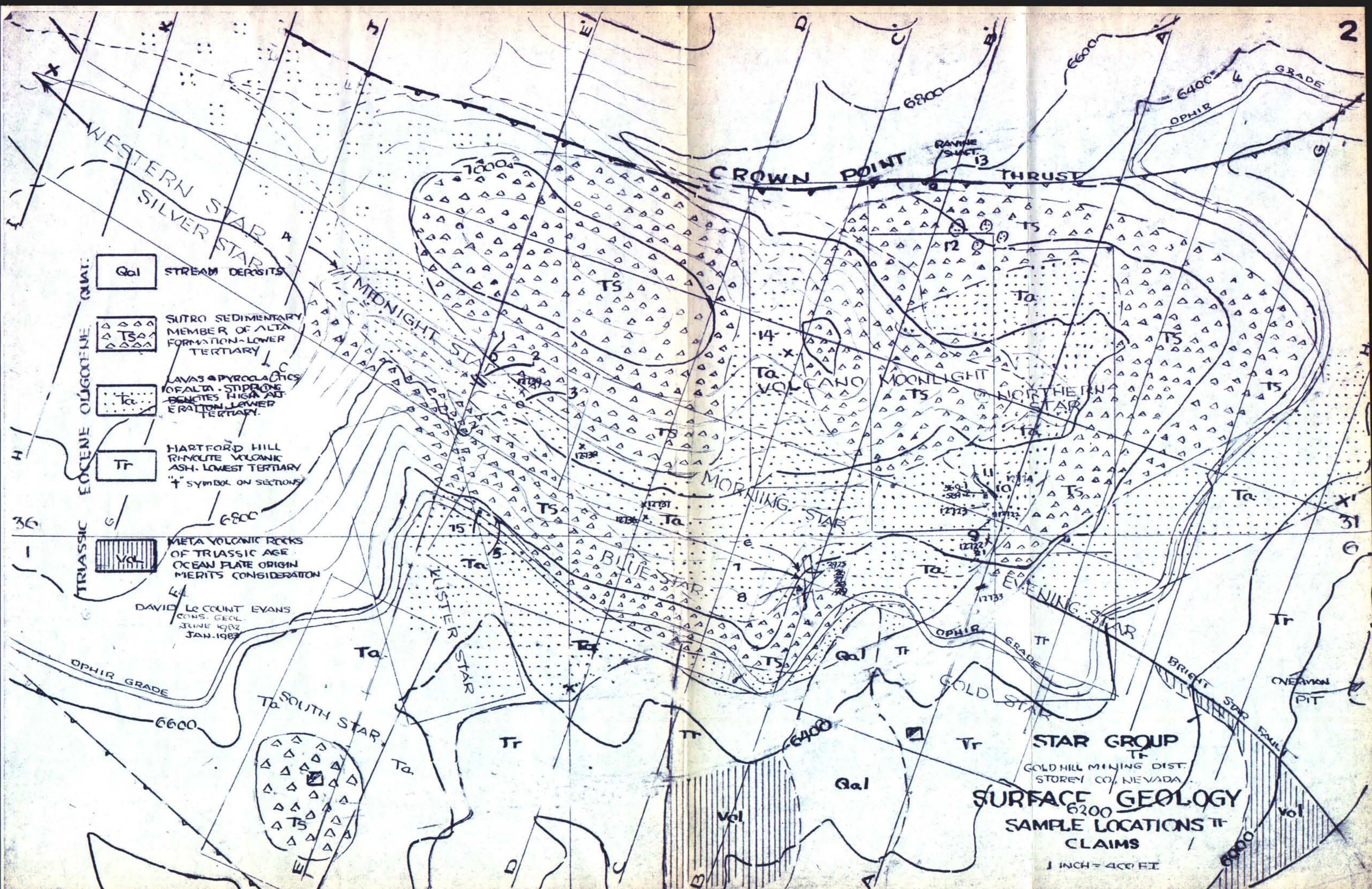
1200 / 1212 COMSTOCK

SECTIONS 8/8

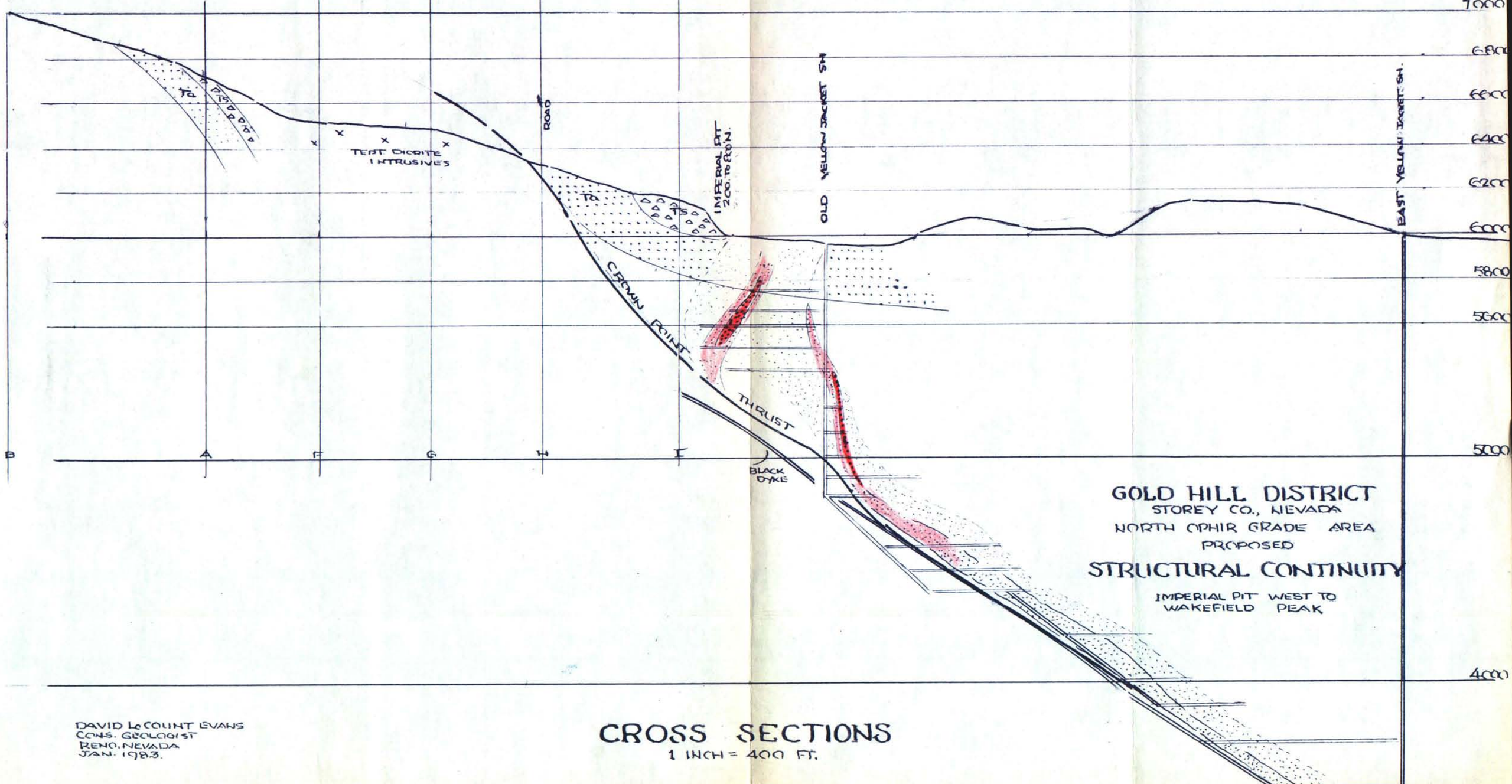
REVISED

STAR GROUP STUDY

DLE Jan 83


2
CROWN POINT THRUST
RAVINE SHAFT
OPHIR GRADE
WESTERN STAR
SILVER STAR
MIDNIGHT STAR
VOLCANO
MOONLIGHT
NORTHERN STAR
MORNING STAR
BLUE STAR
EVENING STAR
KUSTER STAR
SOUTH STAR
GOLD STAR
BRIGHT STAR FAULT
OVERMAN PIT
QUAT.
Qal STREAM DEPOSITS
EOCENE OLIGOCENE
Ts SUTRO SEDIMENTARY MEMBER OF ALTA FORMATION - LOWER TERTIARY
Ta LAVAS & PYROCLASTICS OF ALTA. STIPPLING DENOTES HIGH ALTERATION. LOWER TERTIARY
Tr HARTFORD HILL RHYOLITE VOLCANIC ASH. LOWEST TERTIARY "t" SYMBOL ON SECTIONS
TRIASSIC
Vol META VOLCANIC ROCKS OF TRIASSIC AGE OCEAN PLATE ORIGIN MERITS CONSIDERATION
DAVID LeCOUNT EVANS
CONS. GEOL.
JUNE 1982
JAN. 1983
STAR GROUP
GOLD HILL MINING DIST.
STOREY CO., NEVADA
SURFACE GEOLOGY
SAMPLE LOCATIONS
CLAIMS
1 INCH = 400 FT.

Y-Y'

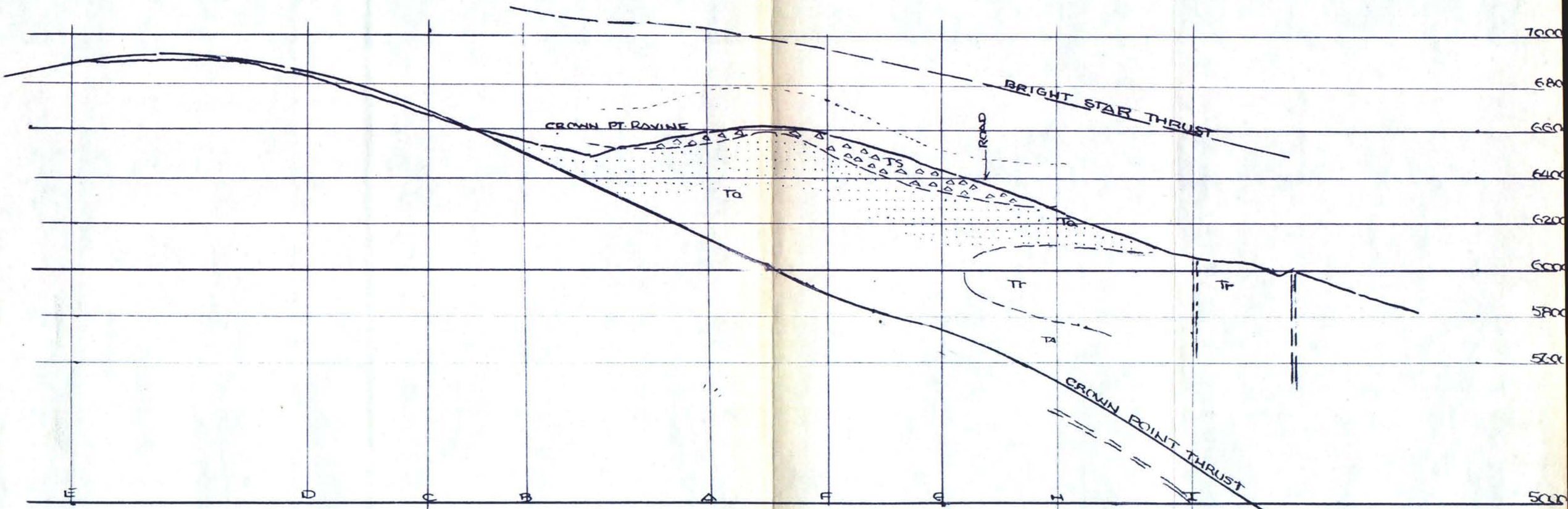


GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH OPHIR GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY
IMPERIAL PIT WEST TO WAKEFIELD PEAK

DAVID L. COUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983.

CROSS SECTIONS
1 INCH = 400 FT.

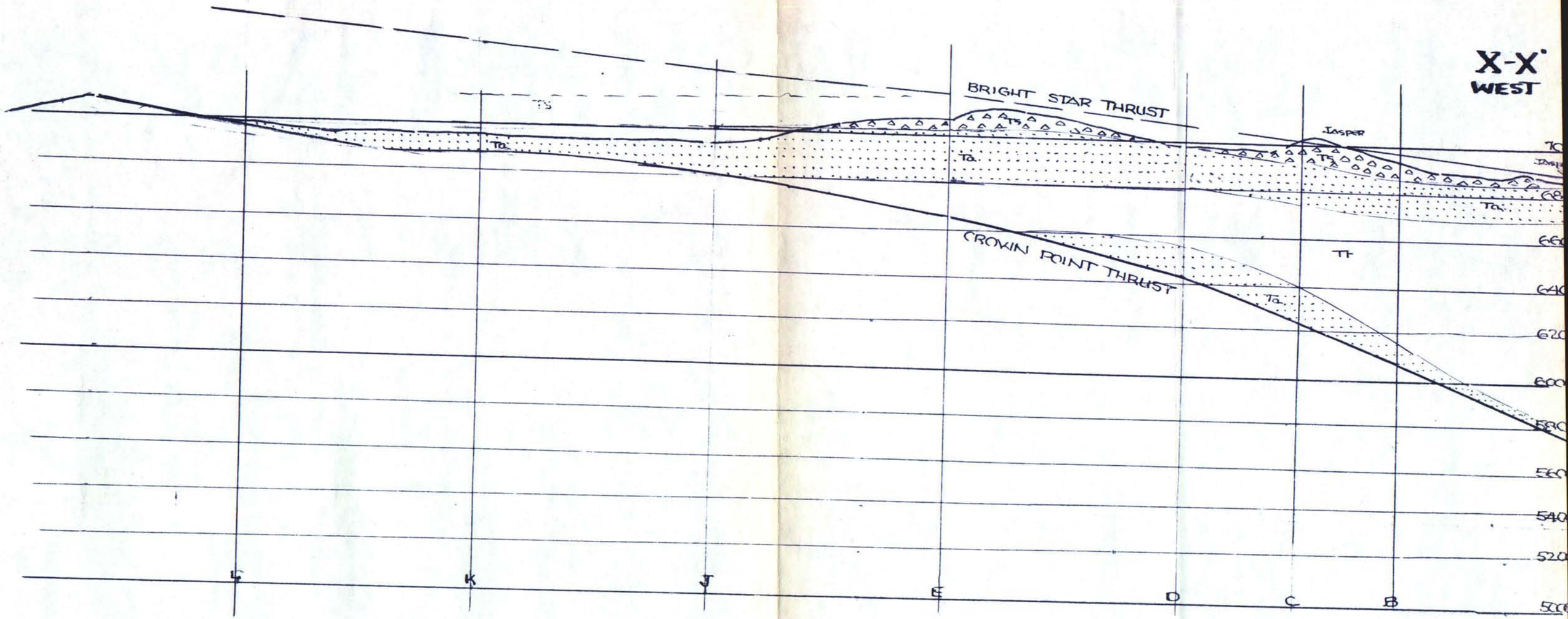
X-Y



DAVID LaCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.

GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH ARROW GRADE AREA
PROPOSED
STRUCTURAL CONTINUITY
IMPERIAL PIT WEST TO
WAKEFIELD PEAK



DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

STOREY CO., NEVADA

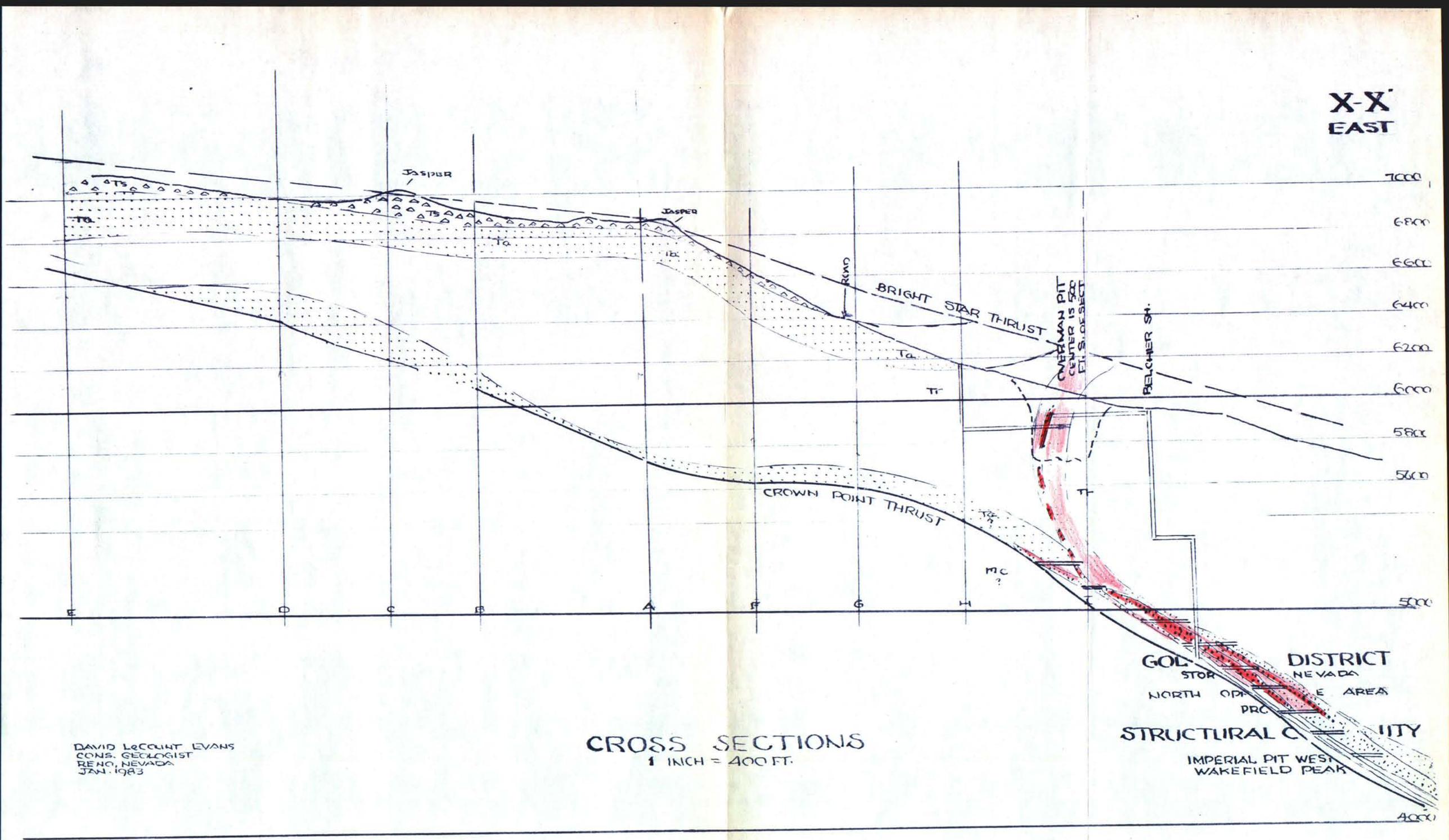
NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK

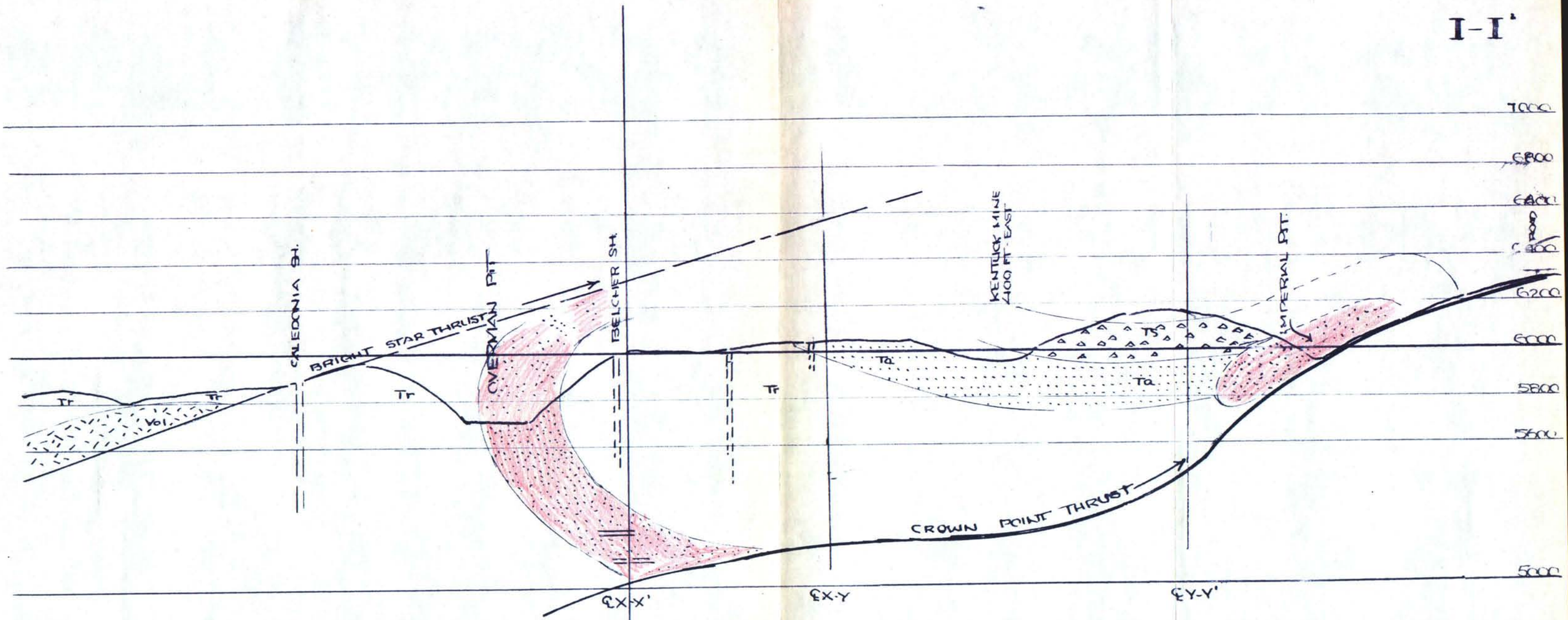
X-X'
EAST



DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.

I-I'



GOLD HILL DISTRICT
STOREY CO., NEVADA
NORTH ORHIR GRADE AREA
PROPOSED

STRUCTURAL CONTINUITY

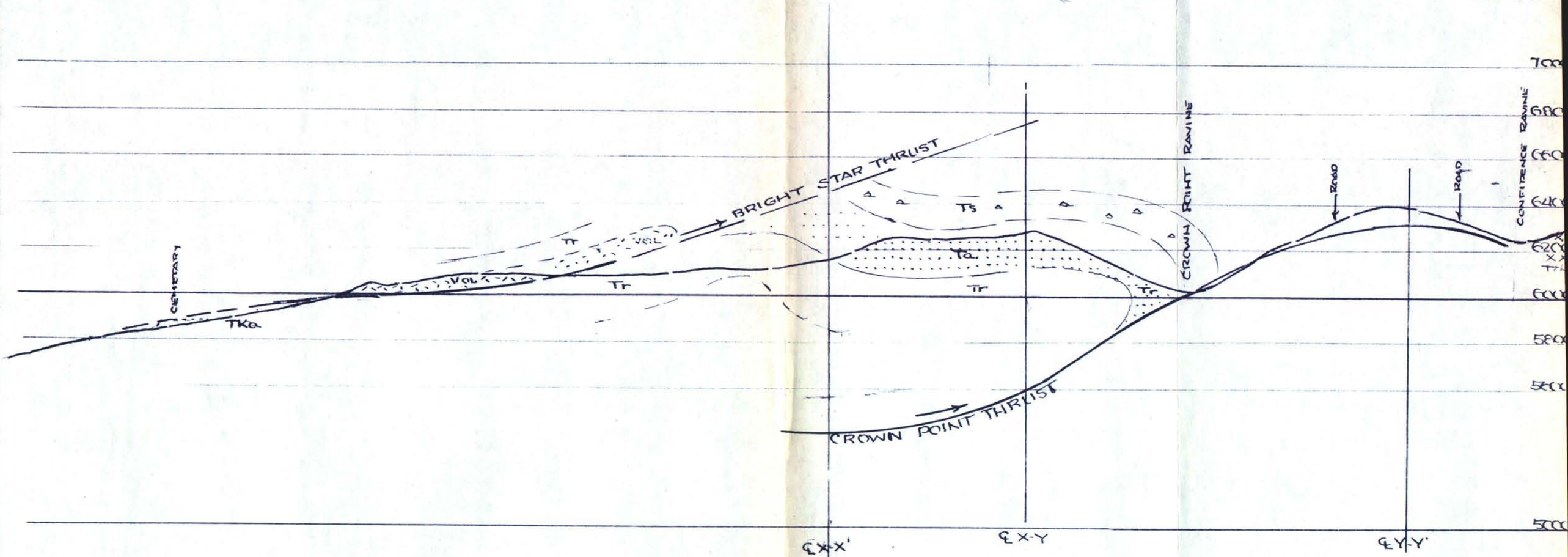
IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID Le COUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

H-H'



GOLD HILL DISTRICT
STOREY CO, NEVADA
NORTH OPHIR GRADE AREA
PROPOSED

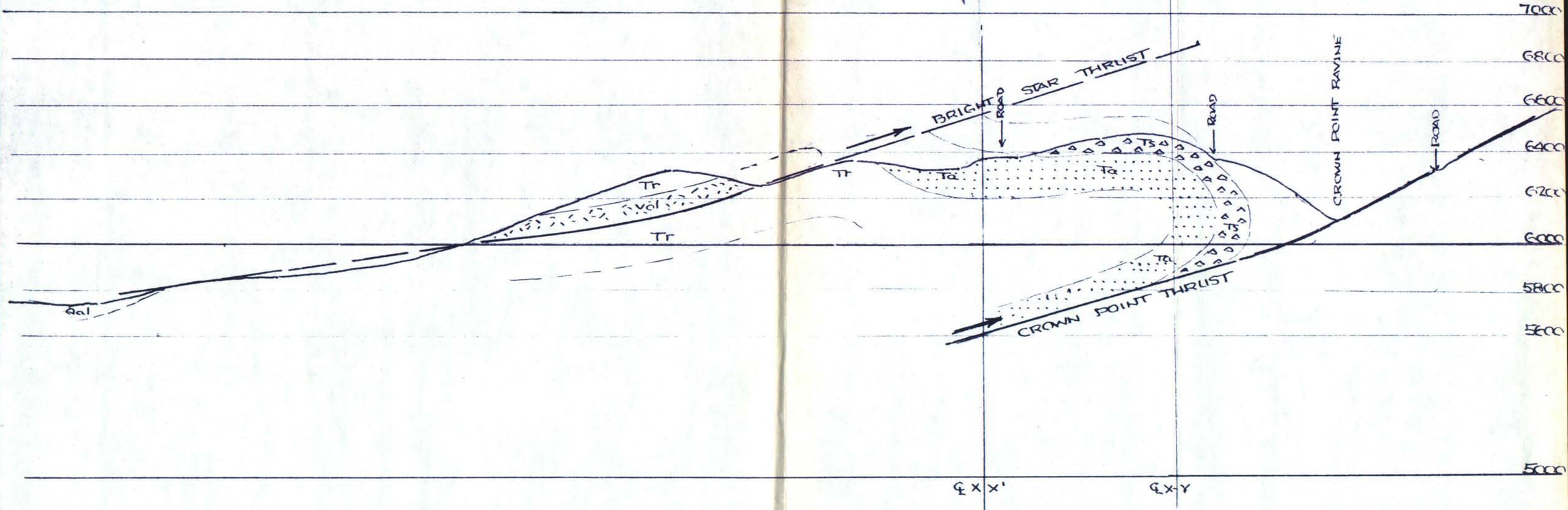
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKE FIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS
1 INCH = 400 FT.

G-G'



GOLD HILL DISTRICT
STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK

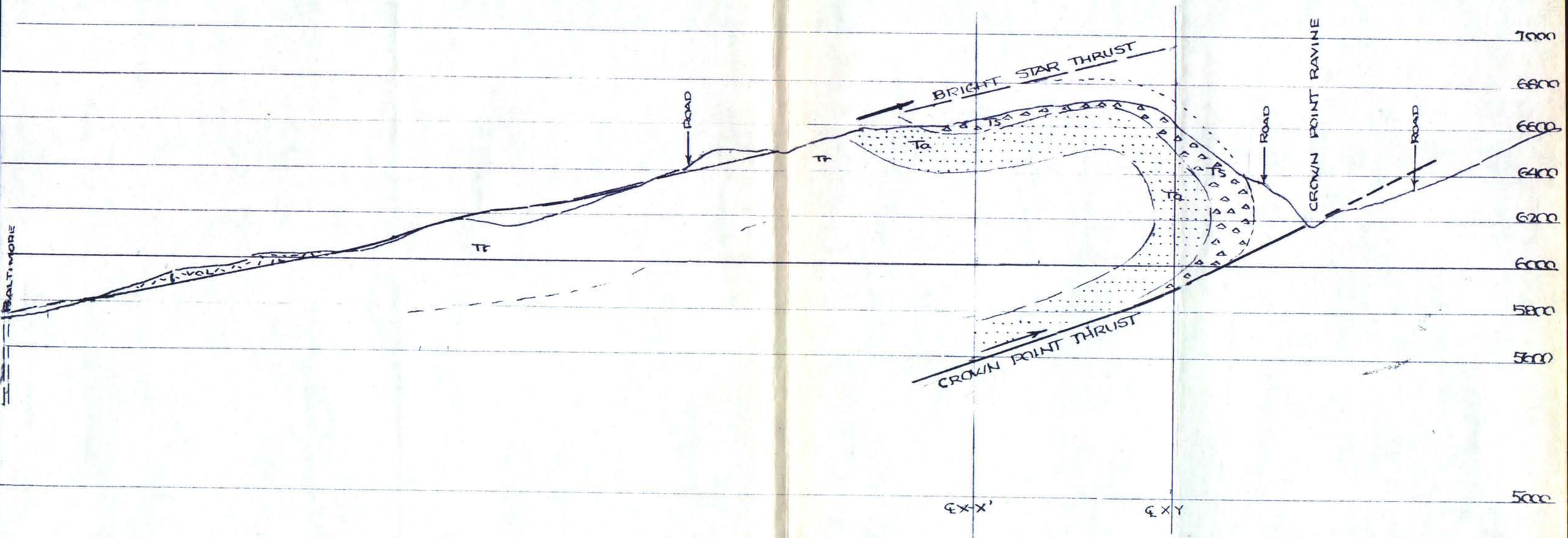
DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA

JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

F-F'



GOLD HILL DISTRICT

STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

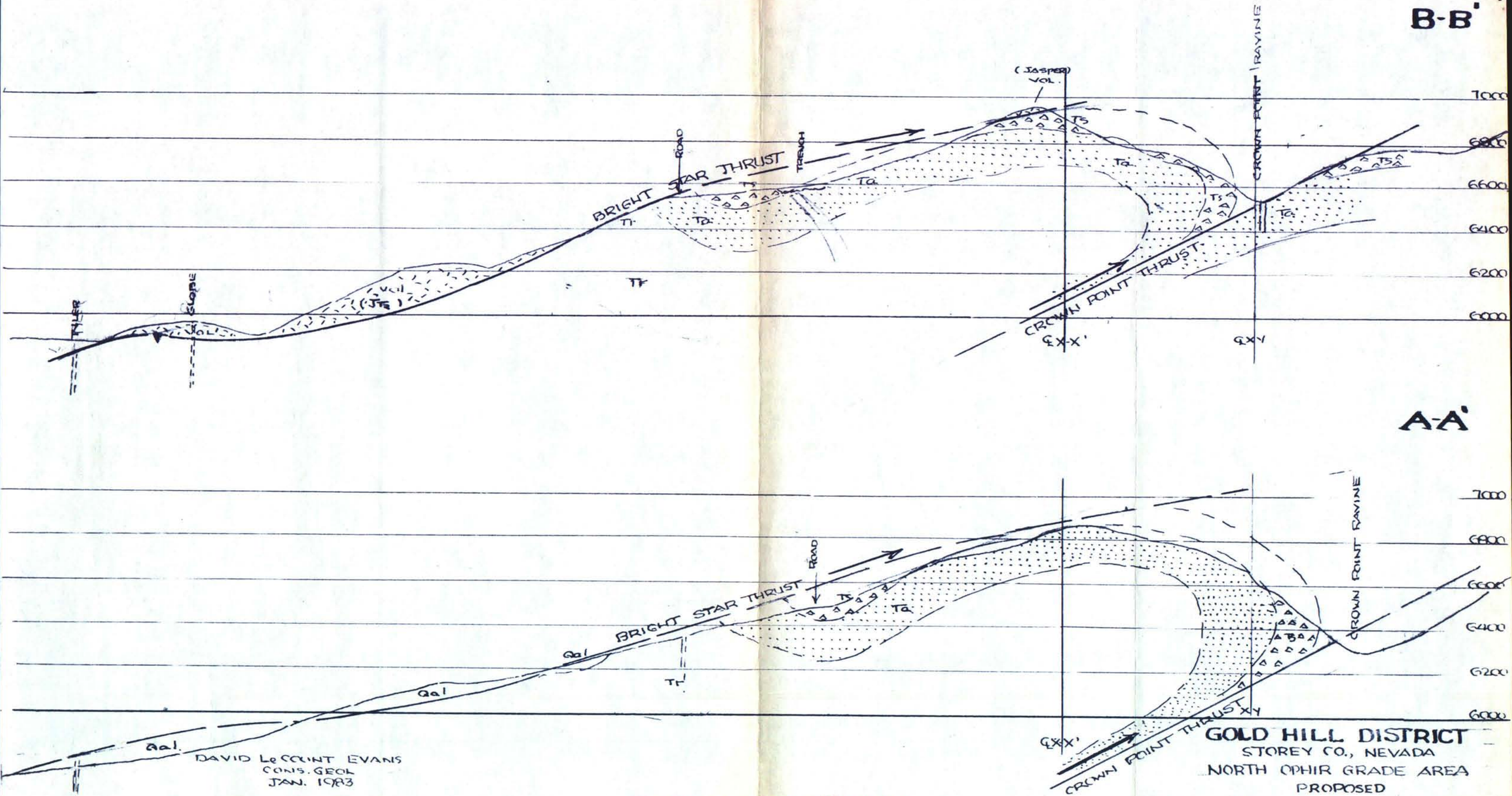
STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK

DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.



DAVID LeCOUNT EVANS
CONS. GEOL
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

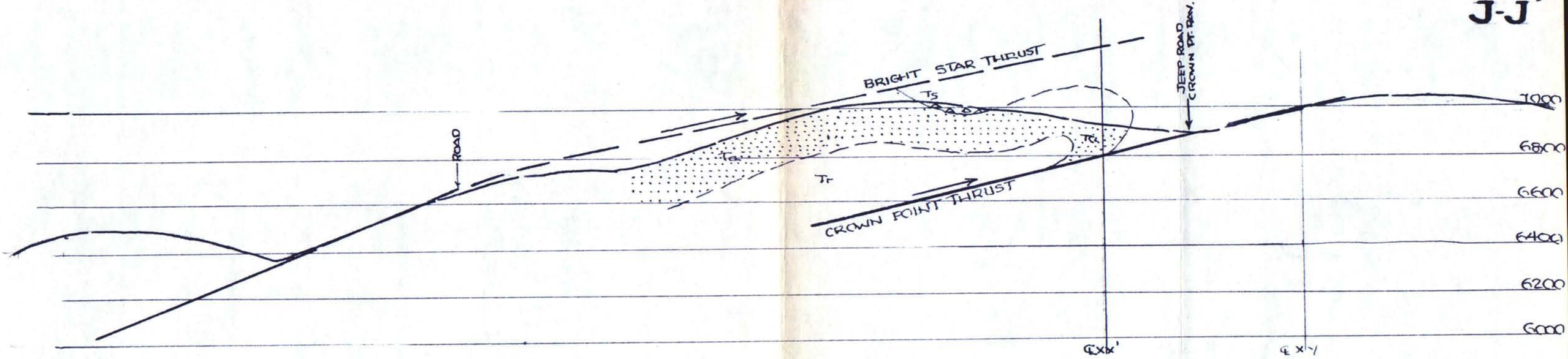
STOREY CO., NEVADA

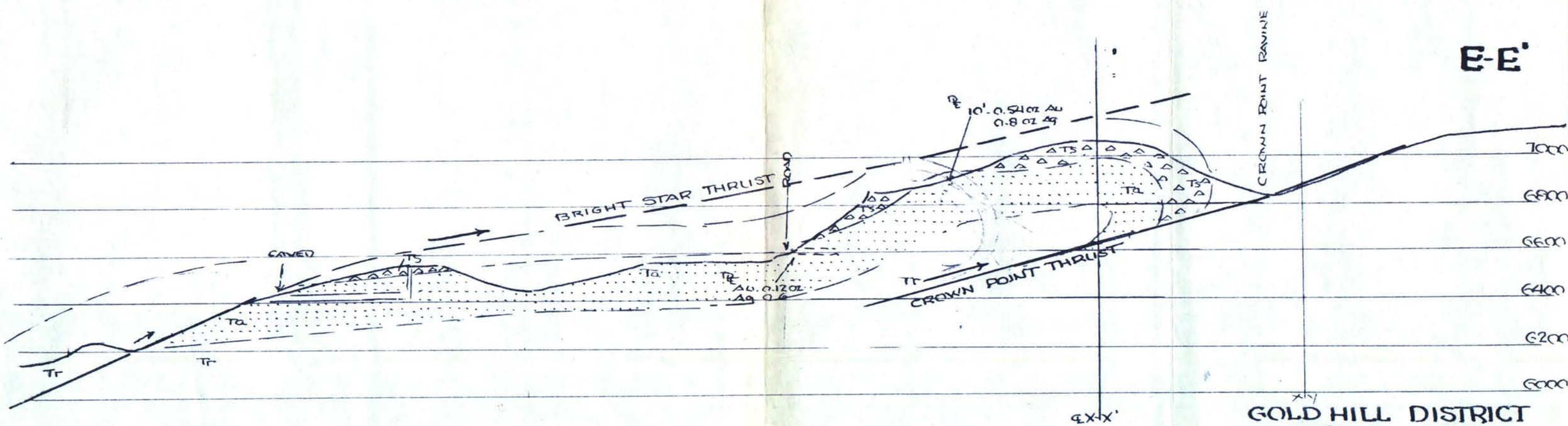
NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK





DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

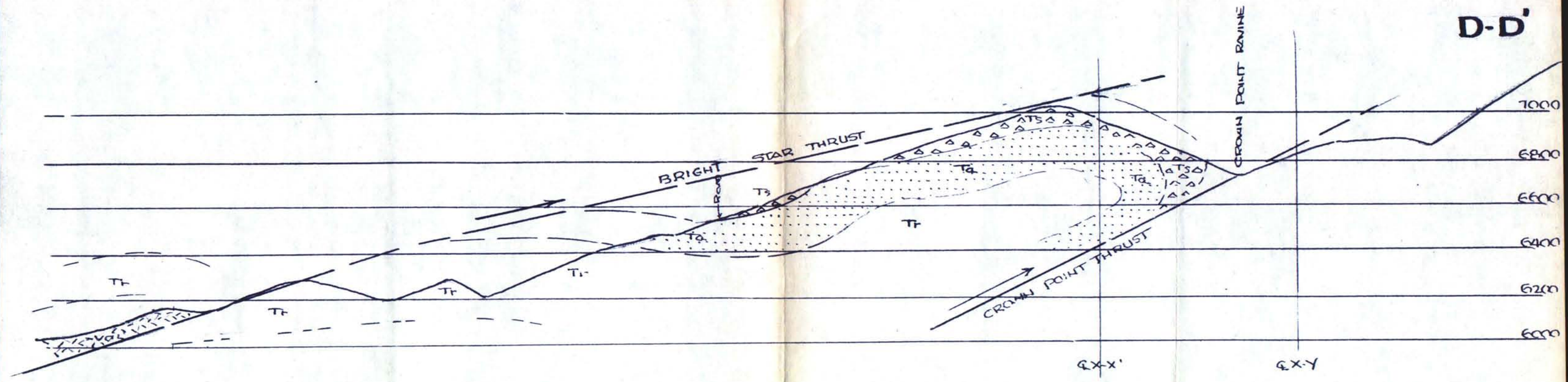
STOREY CO., NEVADA

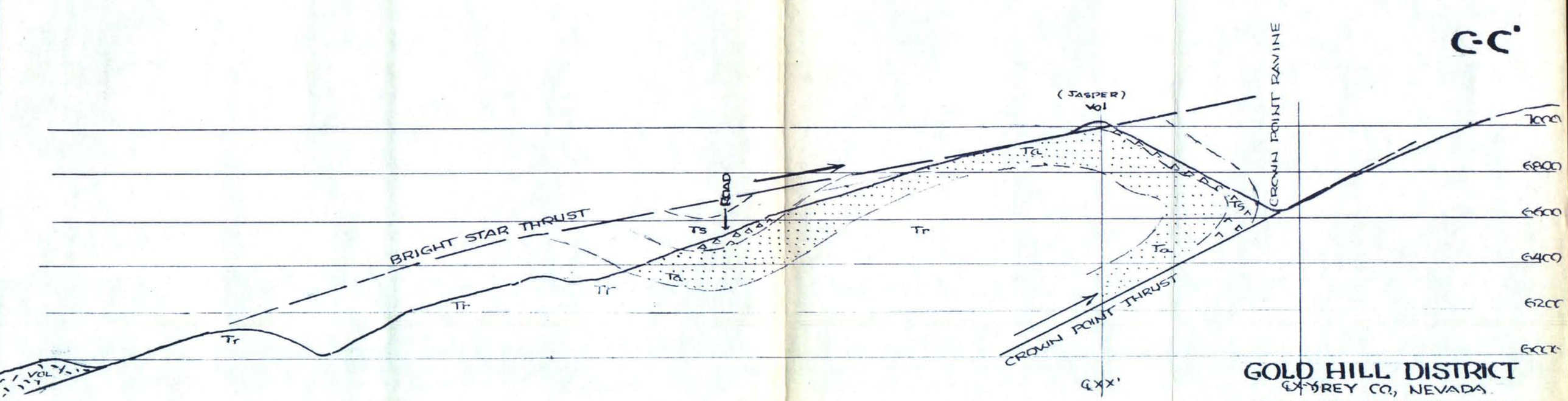
NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK





CROSS SECTIONS

1 INCH = 400 FT.

DAVID LeCOUNT EVANS
CONS. GEOLOGIST,
RENO, NEVADA,
JAN. 1983

GOLD HILL DISTRICT

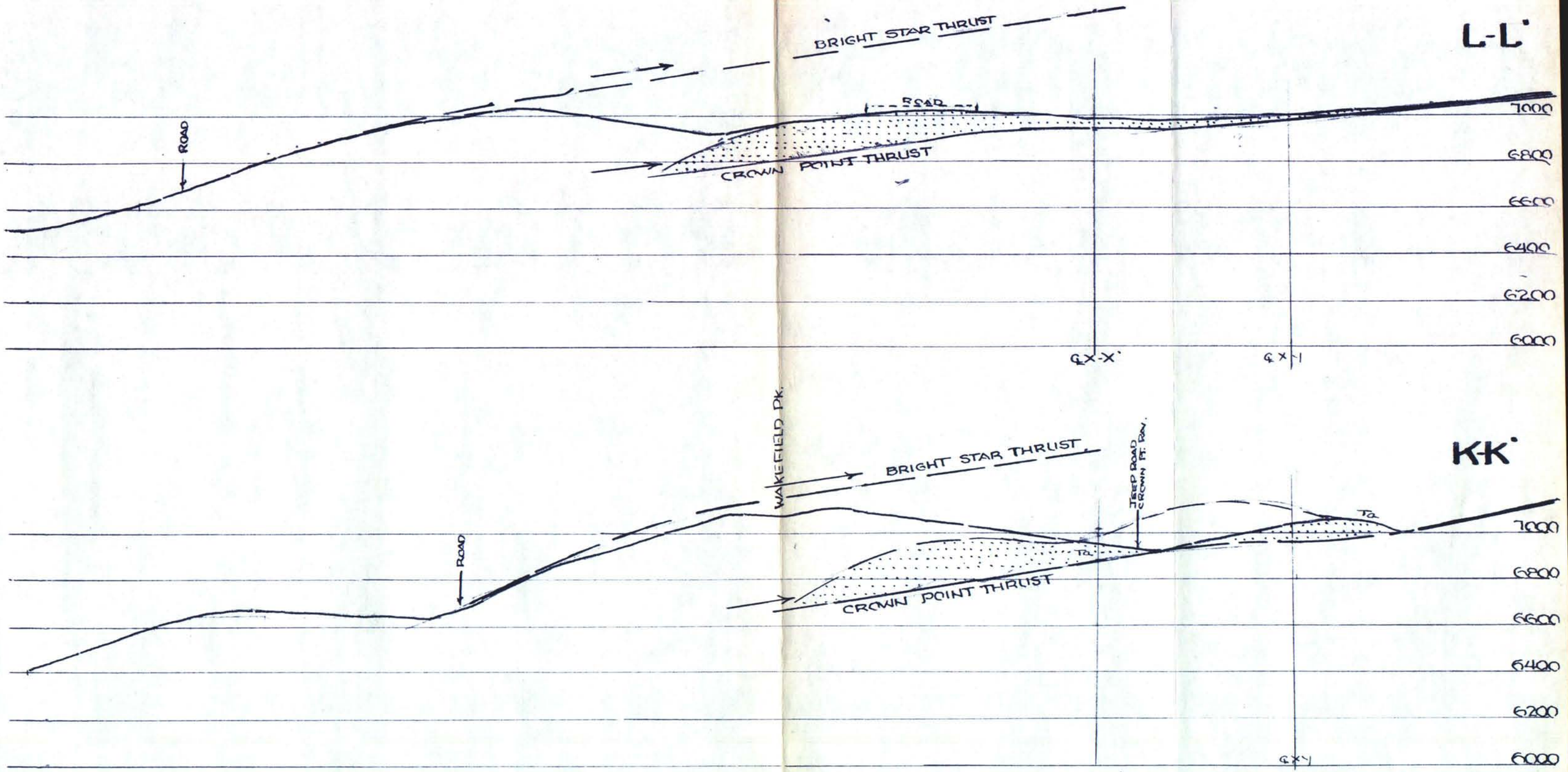
STOREY CO, NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO
WAKEFIELD PEAK



DAVID LeCOUNT EVANS
CONS. GEOLOGIST
RENO, NEVADA
JAN. 1983

CROSS SECTIONS

1 INCH = 400 FT.

GOLD HILL DISTRICT

STOREY CO., NEVADA

NORTH OPHIR GRADE AREA

PROPOSED

STRUCTURAL CONTINUITY

IMPERIAL PIT WEST TO WAKEFIELD PEAK


R20E-R21E
T17N
T16N
VIRGINIA CITY
GOLD HILL
AMERICAN FLAT
SILVER CITY
CON VIRGINIA
SAVAGE
CHOLLAR
CONSOLIDATED
OPHIR GRADE
OVERMAN PIT
CALEDONIA
KNICKERBOCKER
BALTIMORE
KENTUCK
YELLOW JACKET
WAKEFIELD PK.
SUTRO TUN
KNICKERBOCKER ANDESITE
COMSTOCK DISTRICT
STOREY CO., NEVADA
SURFACE GEOLOGY
1 IN = 2000 FT.
AFTER F.C. CALKINS
1944
WITH ADDED INTERPRETATION
AS MAPPED BY
DAVID LeCOUNT EVANS
1972
1982
D.L. EVANS
7/20/82
1/25/83

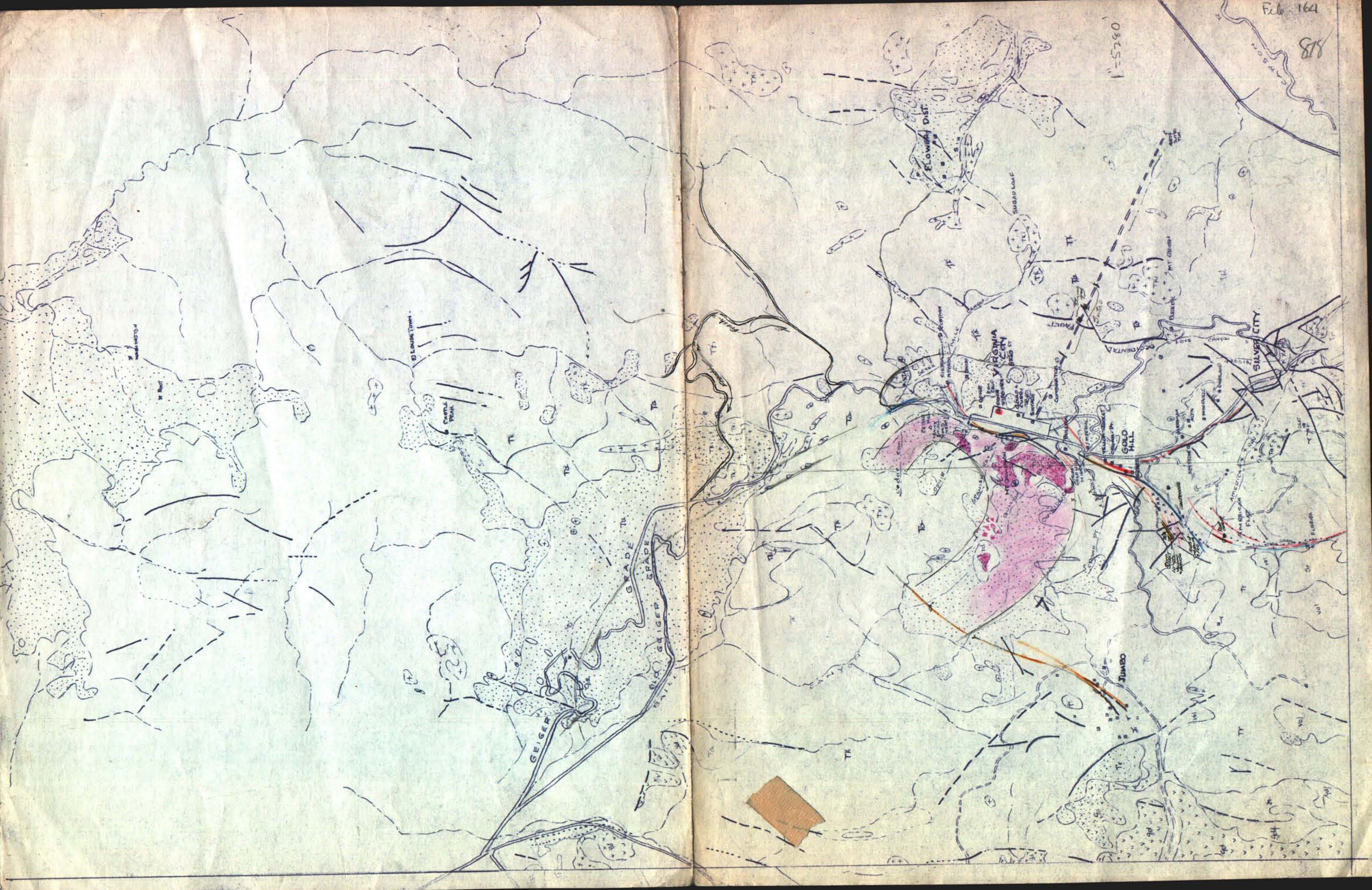
COMSTOCK DISTRICT
STOREY CO., NEVADA

SURFACE GEOLOGY
1 in = 2000 ft.

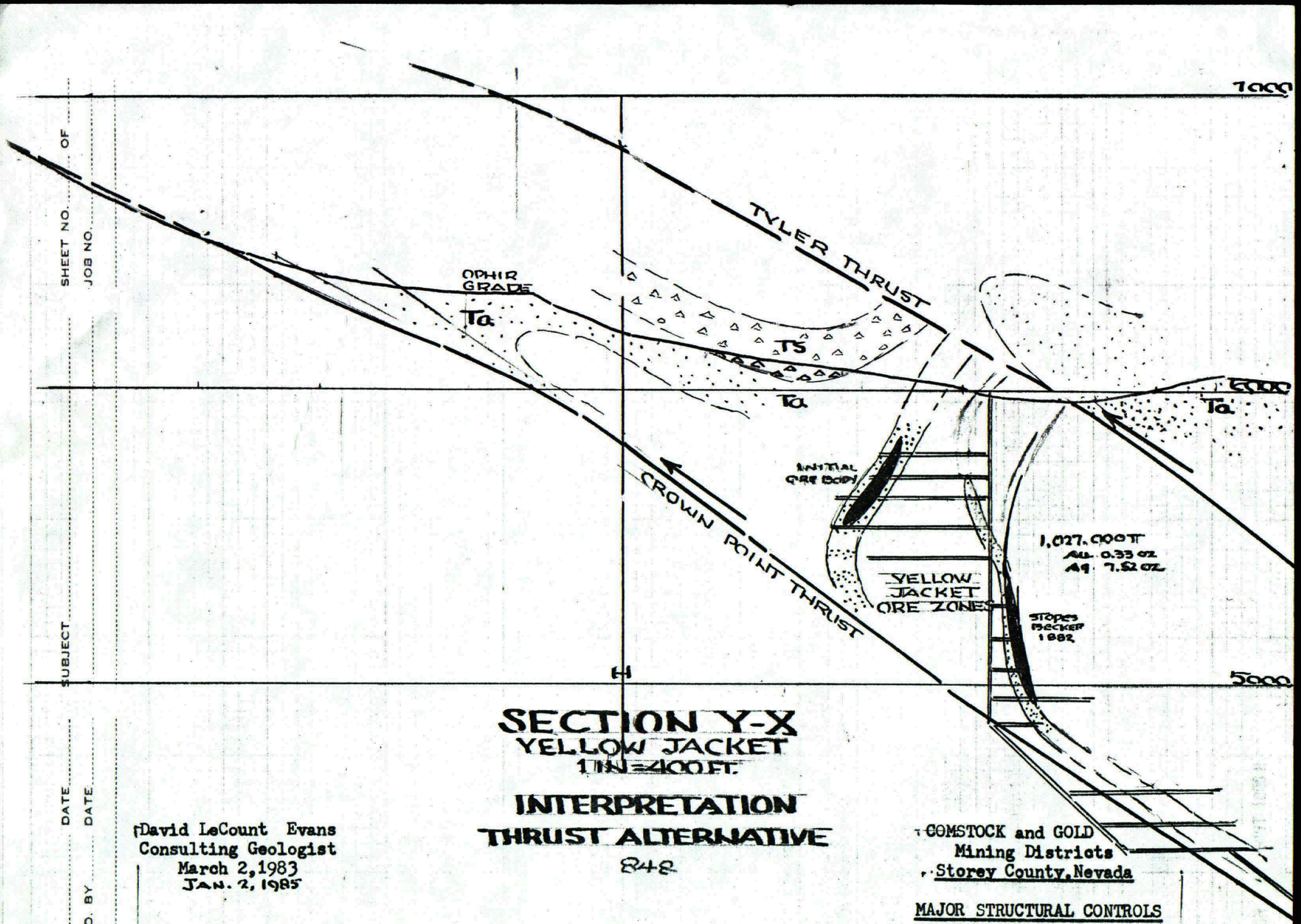
AFTER F.C. CALKINS
1944

WITH ADDED INTERPRETATION
AS MAPPED BY
DAVID LeCOUNT EVANS
1972
1982

R. EVANS
7/20/82
1/25/83



File 164
818
1"=5280
FLOWERY DIST.
VIRGINIA CITY
GOLD HILL
SILVER CITY
GEIGER GRADE
OLD GEIGER GRADE
JUMBO



SECTION Y-X
YELLOW JACKET
1 IN = 400 FT.

INTERPRETATION
THRUST ALTERNATIVE

848

David LeCount Evans
Consulting Geologist
March 2, 1983
JAN. 2, 1985

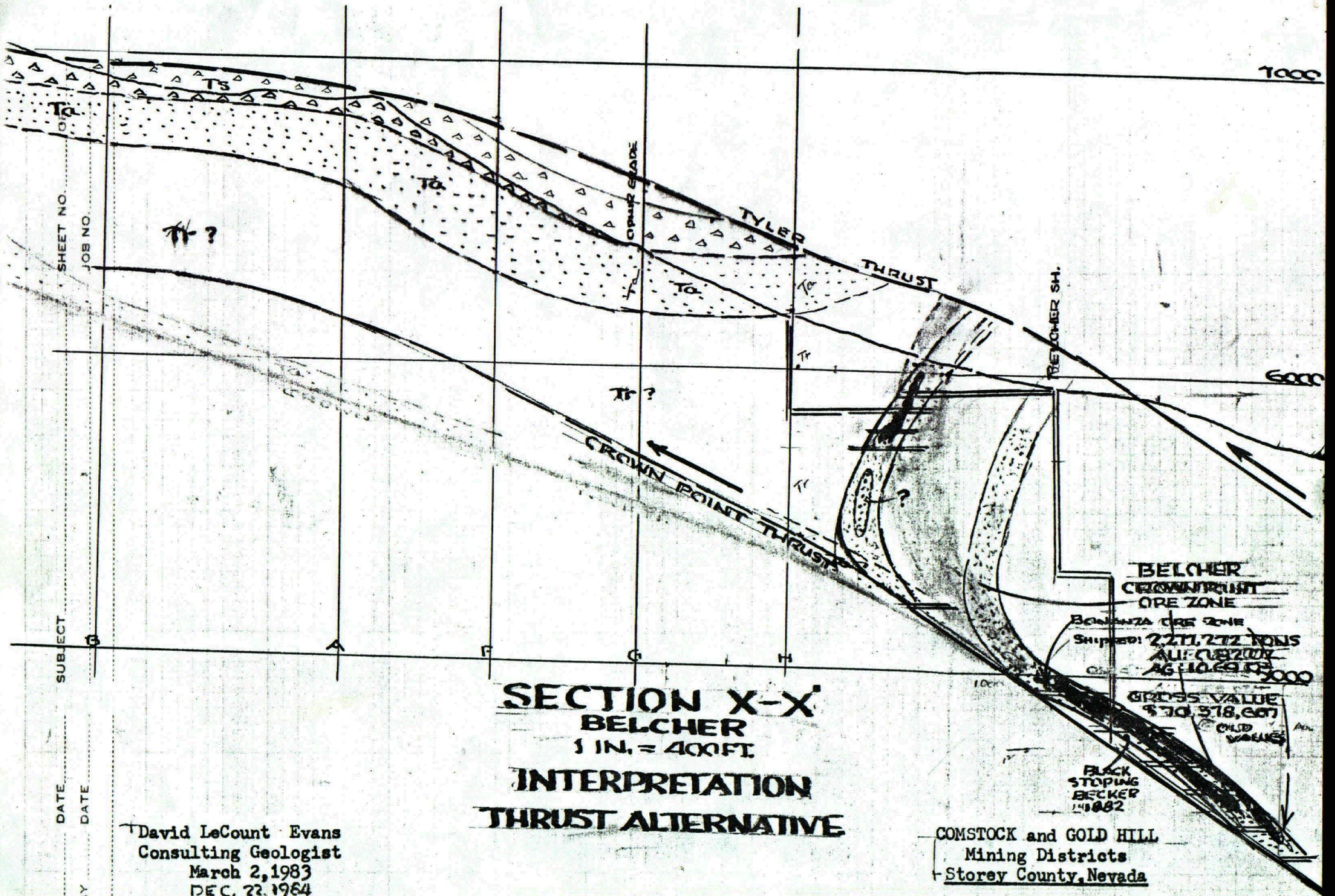
COMSTOCK and GOLD
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

A Consideration

IX-b

SHEET NO. ..... OF .....
JOB NO. .....
SUBJECT .....
DATE .....
BY .....
CHKD. BY ..... DATE .....



SECTION X-X'

BELCHER

1 IN. = 400 FT.

INTERPRETATION

THRUST ALTERNATIVE

SUBJECT

DATE

BY

CHKD. BY

DATE

David LeCount Evans
Consulting Geologist
March 2, 1983
DEC. 22, 1984
JAN. 2, 1985

COMSTOCK and GOLD HILL
Mining Districts
Storey County, Nevada

MAJOR STRUCTURAL CONTROLS

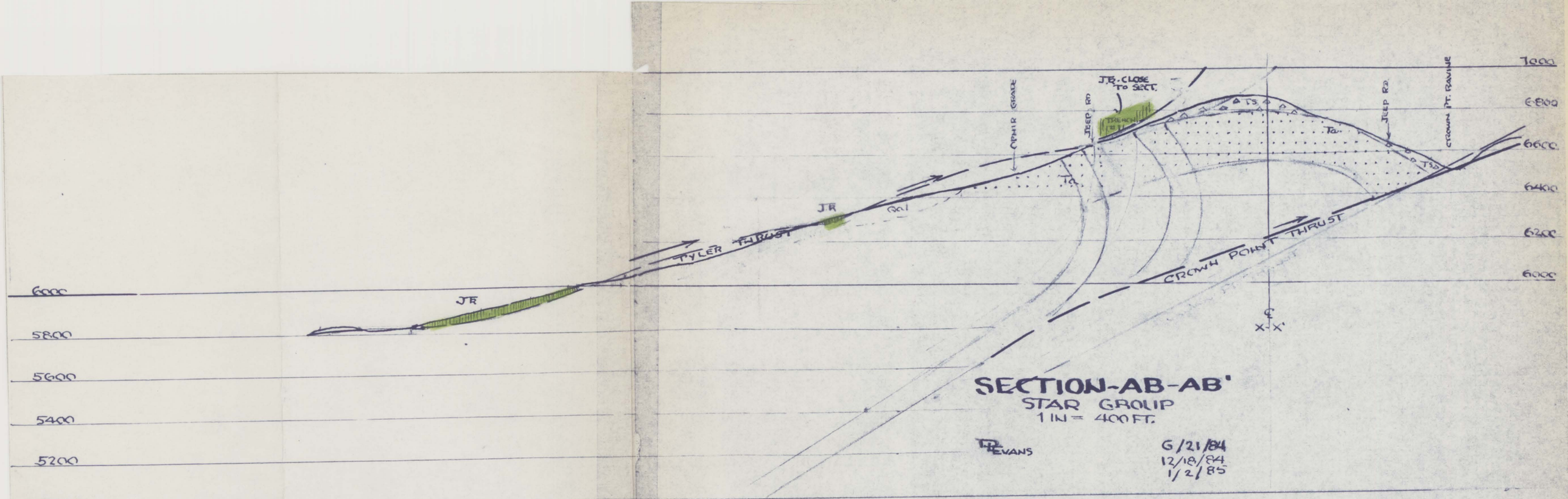
A Consideration

SHEET NO.

JOB NO.

G-188

X-5



SECTION-AB-AB'

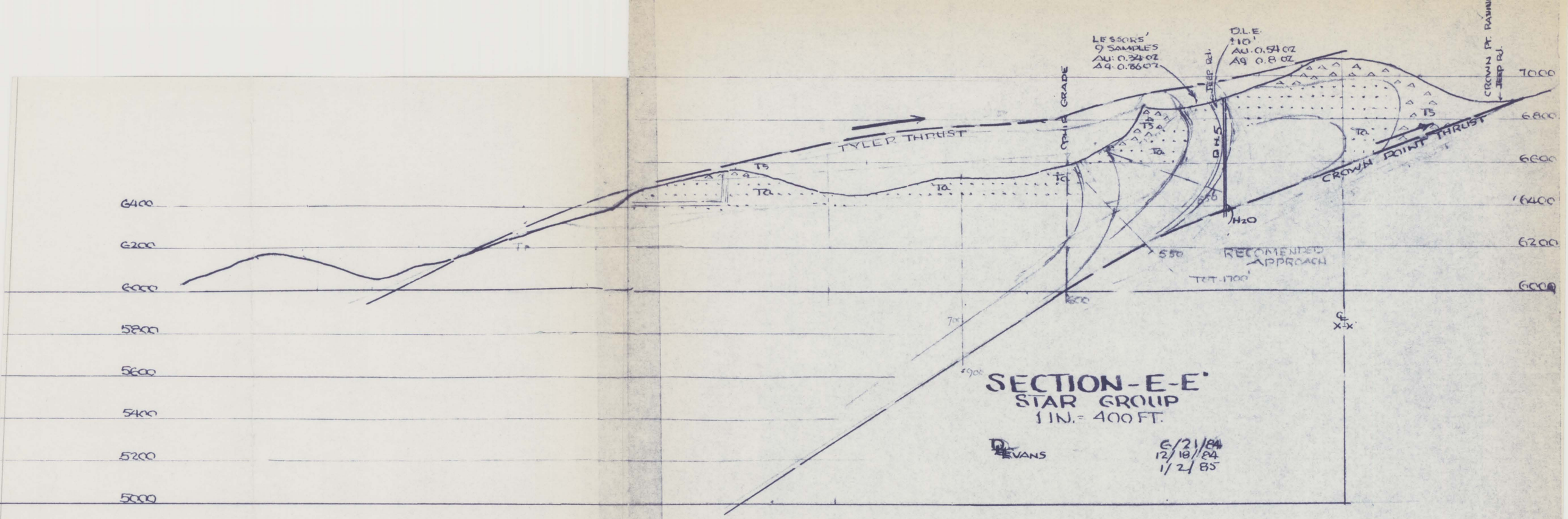
STAR GROUP

1 IN = 400 FT.

T.P. EVANS

6/21/84
12/18/84
1/2/85

1200 0145



SECTION - E-E'
STAR GROUP
1 IN. = 400 FT.

D. EVANS

6/21/84
12/18/84
1/2/85

1200 0145

SECTION - B-B'

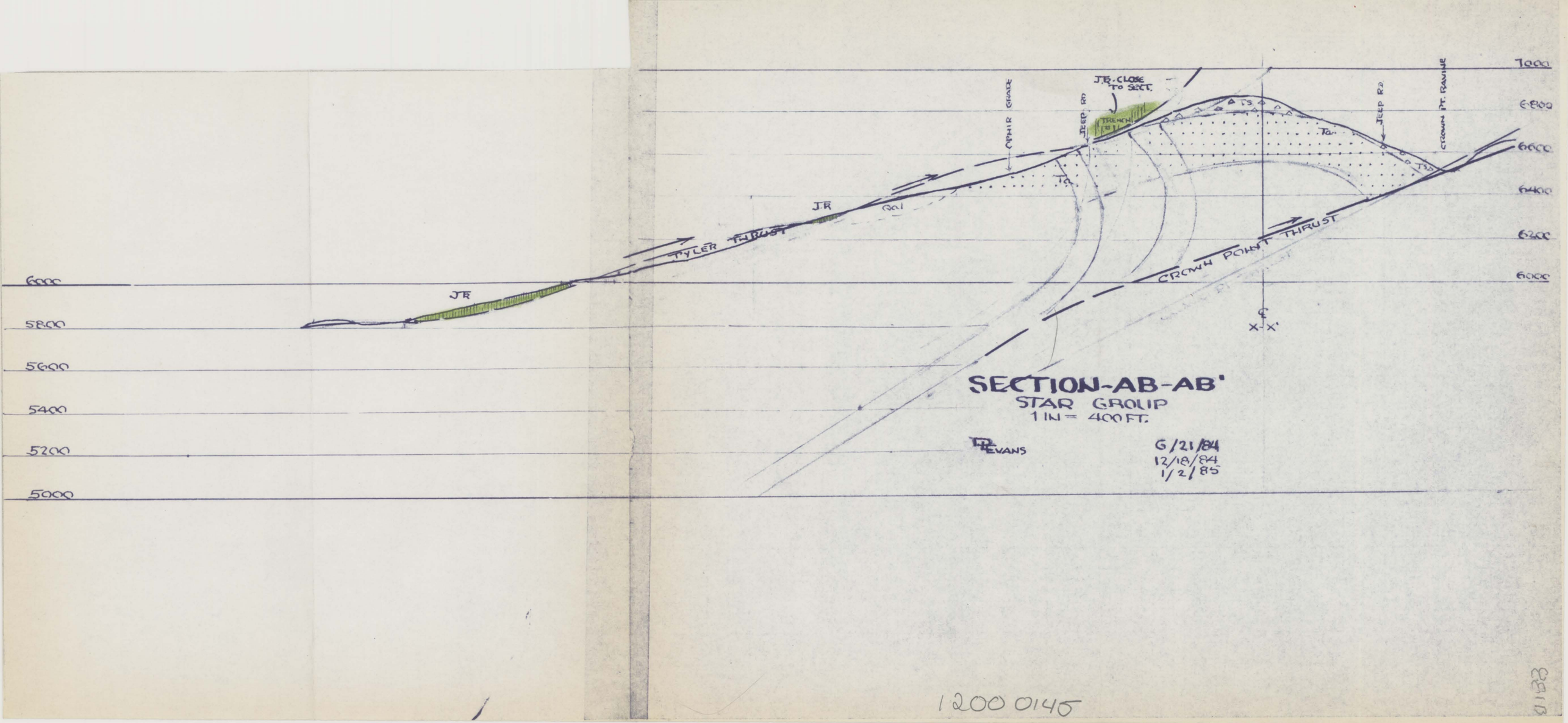
STAR GROUP

1 IN = 400 FT.

DR EVANS

6/21/84
12/18/84
1/2/85

1200 0145



SECTION-AB-AB'

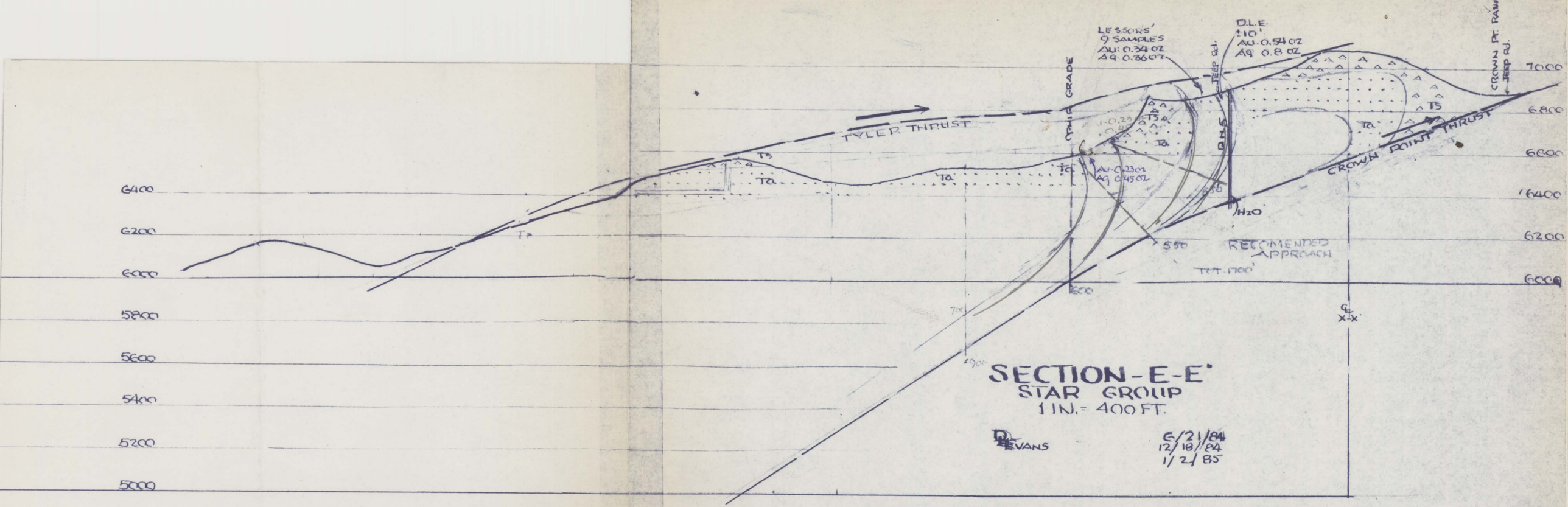
STAR GROUP

1 IN = 400 FT.

TD EVANS

6/21/84
12/18/84
1/2/85

1200 0145



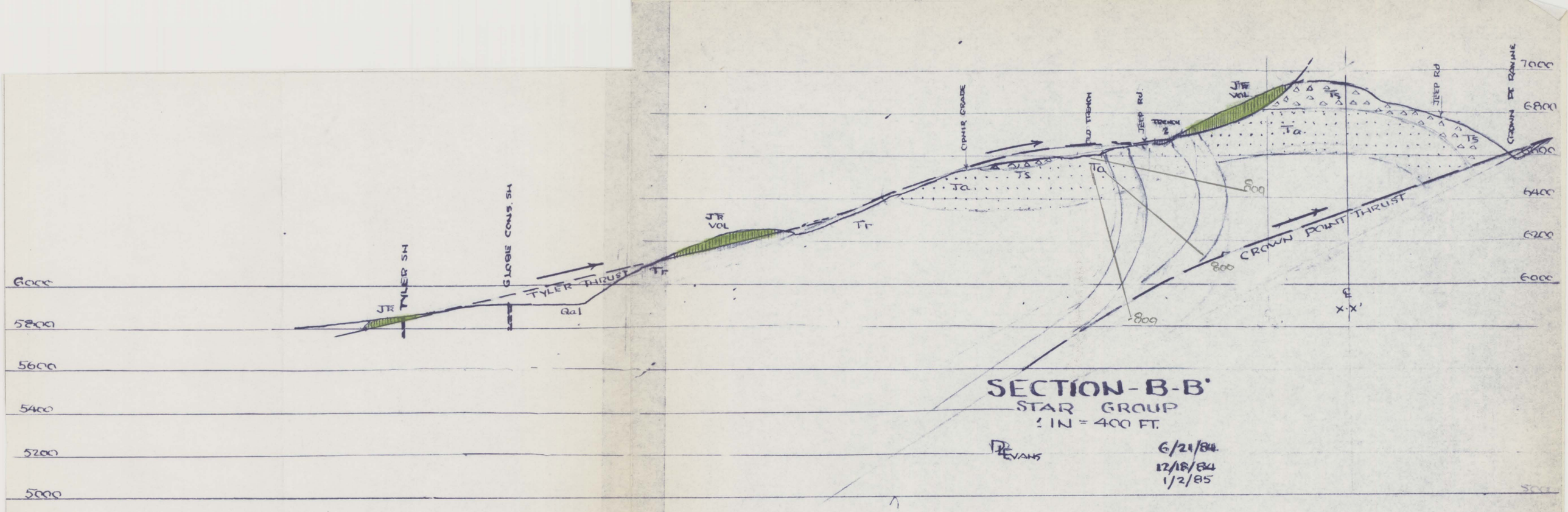
SECTION-E-E'
STAR GROUP
1 IN. = 400 FT.

D. EVANS

6/21/84
12/18/84
1/2/85

1200 0145

881-B



SECTION-B-B'

STAR GROUP

1 IN = 400 FT.

DLE EVANS

6/21/84

12/18/84

1/2/85

12000145

EXPLANATION

NORTHERN WASHOE COUNTY

Qsl **Qls** — Pleistocene and Recent

Qsl, *Undifferentiated Quaternary sediments, lake, alluvial, alluvial fan, talus and playa deposits.*

Qls, *Landslide deposits, coarse, rubbly mixtures of basalt, tuff, diatomite and tuffaceous sedimentary rocks. Chiefly of Pleistocene age.*

Tba — Basalt

Flows and intrusive dikes of olivine basalt derived from fissures, and from central vents such as Twin and Poodle Mountains. Diktytaxitic texture common. Flows form the caprock of major topographic rims in this area. Flows included in this map unit range in age from upper Miocene to Pliocene.

Tts **Tcr** — High Rock sequence

Tts, *Diatomite, shale, mudstone, sandstone, basalt lapilli tuff and agglomerate, sodic rhyolite ash-fall tuff and welded ash-flow tuff and areally restricted flows of sodic rhyolite and basalt, locally contains abundant vertebrate and plant remains of Hartstevian age. Equivalent in part to Virgin Valley and Trout Creek formations. Probably includes rocks of Pliocene age in southwestern portion of map area.*

Cañon Rhyolite

Tcr *Flows, protrusive domes and subordinate welded ash-flow tuffs of soda rhyolite. Locally interfingered with High Rock sequence, but usually the High Rock sequence lies with marked unconformity upon the Cañon Rhyolite. Correlative in part with rhyolite and dacitic rocks (Trd) of Willden (1963) and with tuffaceous sedimentary rocks, tuffs, and silicic flows (Ttr) of Walker and Repenning (1965).*

Tmb — Basalt and andesite

Basalt, andesite and trachyte flows and breccias. Correlative in part to Tbt, Tfb and Taf units of Walker and Repenning (1965), to Willden's (1963) basaltic and andesitic rocks, and to Stearns Basalt. May include rocks of Oligocene age.

Tsw — South Willow Formation

Basalt, andesite, and dacite flows, agglomerate, mudflow breccia and associated intrusive phases. Dark colored porphyritic rocks, usually with conspicuous plagioclase phenocrysts. Extensive altered areas in vicinity of Leadville and in Hays Canyon area. May include some rocks of Miocene age in Cottonwood Creek area of Granite Range.

Tir — Intrusive rhyolite

White to gray, flow-banded rhyolite. Occurs in intrusive plugs in Red Mountain Creek area. Not all plugs shown on map.

Upper Miocene and Pliocene — Miocene (?) — Canyon Assemblage — Oligocene

Kgd — Granodiorite

Medium-to coarse-grained granodiorite with plagioclase, microcline, quartz, hornblende and biotite. Prominent accessory sphene. Includes pegmatite-aplite dikes. Mapped only in the Granite Range.

Pkm — Metasedimentary and metavolcanic rocks

Interlayered sequence of thermally metamorphosed basalt and andesite flows, tuffs, and breccias; and limestone, pebble conglomerate, quartzite, and calcsilicate hornfels.

STOREY AND SOUTHERN WASHOE COUNTIES

Qal **Ql** **Qg** **Qs** — Pleistocene and Recent

Qal, *Stream deposits, talus, slope wash, alluvial fan and eolian deposits.*

Ql, *Lake deposits, clay, silt, sand, gravel and calcareous tufa. Includes some areas thinly veneered by eolian sand. Only larger areas shown on map. Chiefly of Pleistocene age.*

Qg, *Glacial deposits, confined to Carson Range. Morainal and fluvio-glacial outwash deposits, chiefly of Pleistocene age.*

Qs, *Siliceous sinter deposits in Steamboat Springs area.*

Qls — Landslide deposits

Granitic rubble and sand in Slide Mountain area. Chaotic mixtures of basaltic and tuffaceous rocks elsewhere.

QTg — Pre-Lake Lahontan deposits

Terrace, alluvial fan, and pediment gravels. Includes lacustrine deposits in Washoe Valley. These gravels are deeply weathered, highly dissected and have been faulted and tilted.

Qba — Basalt and andesite flows

Flows of olivine basalt and hornblende andesite of Pleistocene age. Equivalent to McClellan Peak Olivine Basalt and Mustang Andesite of Thompson (1956).

QTb **QTr** — Basalt and rhyolite — Pliocene

QTb, *Olivine basalt, basalt, basaltic andesite, and pyroxene andesite flows, pyroclastics and associated intrusive phases. Equivalent in large part to Lousetown Formation of Thompson and White (1964). Includes flows of Pliocene age in Chalk Hills area.*

QTr, *Protrusive rhyolite domes. Equivalent to Steamboat Hills Rhyolite of Thompson and White (1964).*

Tr — Rhyolite

Intrusive plugs, protrusive domes, and flows (?) of rhyolite glass. Contains phenocrysts of plagioclase, biotite, and alkali feldspar, locally perlitic. Equivalent in part to Washington Hill Rhyolite of Thompson (1956). Rhyolite is contemporaneous with upper part of Tst in large part, but may include plugs of Hartford Hill age.

Tab **Tst** — Basalt and sedimentary rocks

Tab, *Basalt, basaltic andesite and pyroxene andesite flows, pyroclastics and associated intrusive phases, Unit overlies and interfingers with upper portion of Tst. Equivalent in part to type Lousetown Basalt (Thayer, 1937).*

Tst, *Pliocene sedimentary rocks, Fluviatile and lacustrine sedimentary rocks including diatomite, arkose, volcanic sandstone, siltstone, mudstone, shale, conglomerate, breccia, silicic vitric tuff, basalt lapilli tuff and locally undifferentiated basaltic flows. Correlative with Truckee Formation of Thompson and White (1964), and Coal Valley Formation of Axelrod (1962).*

Tk **Tki** — Kate Peak Formation — Hartford Assemblage — Miocene

Tk, *Flows, flow breccia, tuff breccia, mudflow breccia, agglomerate, volcanic conglomerate and associated intrusives ranging in composition from pyroxene andesite to rhyodacite. Includes intercalated sedimentary lenses of diatomite, shale, sandstone, conglomerate and waterlain tuff. Includes Desert Peak Formation of Rose (1969).*

Tki, *Locally differentiated intrusive plugs of hornblende-biotite andesite, dacite or rhyodacite porphyry characterized by conspicuous plagioclase phenocrysts.*

Tgd — Granitic rocks

Stocks, dikes and irregular intrusive masses of quartz monzonite, granodiorite and quartz diorite porphyry. Includes Davidson Granodiorite. These intrusive rocks are usually propylitically altered and locally exhibit argillic and quartz-sericite-pyrite alteration phases.

Tsv — Pyramid Sequence

Basalt, andesite, and dacite flows, flow breccias, mudflow breccias, agglomerates, tuffs and associated intrusives. Lenses of silicic waterlain tuff, diatomite, shale and sandstone intercalated in sequence. Includes Pyramid Formation of MacLasmus (1957), Chloropagus Formation, and Old Gregory Formation of Rose (1969) in Truckee Canyon.

Ta — Alta Formation

Pyroxene and hornblende andesite flows, breccias and pyroclastics. Commonly propylitized and locally bleached. The Sutro member in the Virginia City area consists of tuffaceous shale, sandstone, and conglomerate. Chief host rock for the gold-silver deposits of the Comstock Lode district.

Th — Hartford Hill Rhyolite

Predominantly ash-flow tuffs, variably welded, ranging from rhyolite to quartz latite in composition. Includes some beds of ash-fall tuff and lenses of clastic sediments. Ash-flow tuff typically consists of phenocrysts of quartz, plagioclase, alkali feldspar, and biotite in a matrix of devitrified glass shards. Extensive propylitic alteration present in unit.

Tpr — Pah Rah Formation — Oligocene (?)

Propylitized pyroxene andesite mudflow breccia with occasional clasts of Mesozoic granitic and metamorphic rocks. Known outcrops of the formation are confined to the Coal Canyon area of the Pah Rah Range.

Kgd **Kgdf** — Intrusive rocks — Cretaceous (?)

Kgd, *Undifferentiated plutonic rocks ranging from gabbro to granite in composition. Granodiorite and quartz monzonite are most abundant rock types. Typical granodiorite is a medium-grained rock containing 15-25 percent quartz, 40-50 percent plagioclase, 15-20 percent microcline and 10-20 percent hornblende and biotite. Includes pegmatite-aplite dikes.*

Kgdf, *Foliated granodiorite present in the Virginia City quadrangle and in the Pax Range.*

mvs — Metamorphic rocks — **msr**

Peavine Sequence — Triassic and Jurassic

Mapped on Peavine and Petersen Mountains, and in small, scattered outcrops in Storey and southern Washoe Counties.

mvs, *Undifferentiated metavolcanic and metasedimentary rocks.*

mv, *Metavolcanic rocks, regionally and thermally metamorphosed volcanic flows, breccias, and pyroclastics ranging from basalt to rhyolite in composition.*

ms *Metasedimentary rocks, slate, phyllite, metaluff, argillite, quartzite, metagraywacke, recrystallized limestone, conglomerate, hornfels, schist, and local skarn and tactite interfingered with metavolcanic rocks.*

Nightingale Sequence

Metamorphosed sedimentary rocks, slate, phyllite, hornfels, calcsilicate hornfels, tactite, recrystallized limestone and dolomite, quartzite and schist.

Mapped in the Pax Mountains, northern Lake Range, Marble Bluff, and northern Truckee Range.

Permian and/or Triassic

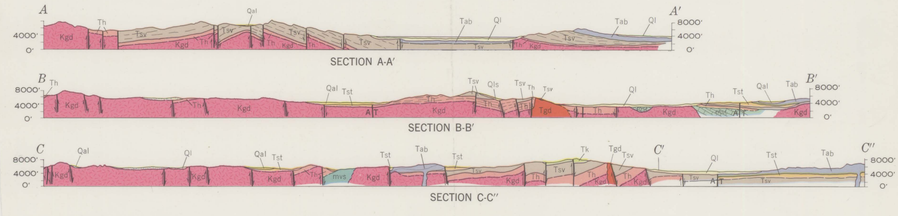
Contact, *Dashed where approximately located*

Fault, showing dip *Dashed where approximately located* U, *upthrown side;* D, *downthrown side*

Concealed fault

Fault, showing relative movement

Strike and dip of beds



GEOLOGIC MAP OF WASHOE AND STOREY COUNTIES, NEVADA

By

Harold F. Bonham

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

1969

Virginia City
(BM 6220)
Spanish Ravine
WASHOE CO.
STOREY CO.
Mt Davidson
Mt Bullion
Bullion Ravine
Landmark Letter
Water Tanks
Mine
Ophir Shaft
Fireman Cem
Union Shaft
Masonic Cem
Mt St Mary Cem
JEEP TRAIL
Cons Va Shaft
C&C Shaft
Osbiston Shaft
Savage Mine
Mint Shaft
Sixmile Canyon
Pioneer Cem
Combination Shaft
Air Shaft
Chollar Mine
Julia Mine
4th Water Sc Tank
Water Tanks
Water Tank
Bullion Shaft
Butler Peak
Sixmile Ravine
Imperial Pit
Old Pit
Star
Res
Wheeler Mon
Ward Shaft
Yellow Jacket Shaft
Crown Point Ravine
Kentuck Mine
Wakefield Peak
Suicide Rock
GRADE
Belcher Shafts
Overman Pit
Gold Hill
East Yellow Jacket Shaft
Twin Peaks
LATERAL
Occidental Shaft
OPHIR
Caledonia Mine
Masonic Cem
Knickerbocker Mine
Catholic Cem
Caledonia New Shaft
Overman 2 Mine
New York Mine
Lady Washington Mine
Arrastra Mine
Forman Shaft
Sterling
Globe Consolidated Mine
Tyler Mine
RAILROAD
Baltimore Shaft
Keystone Shaft Mine
Justice Shaft
Hartford Quarry
Lucerne Cut
Silver Hill
Drysdale Mine
Woodville Shaft
Overland Mine
Succor Mine
South Comstock Mine
Gold Canyon
Devils Gate
Buckeye Mine
Spring
Rock Island Mine
American Flat
Old RR Tunnel
Silver City
Basalt Mesa
Vulcano Mine
Water Tanks
Dayton Mine
Qest Mine
Basalt Hill
Delaware Mine
Ravine
Canyon
(FLOWERY PEAK)
2062 I SE
7 MI. TO U.S. 50
T. 17
T. 16
1800 0145

1200 0145

Star Group Mining Claims
1"=400'
XC-'82