



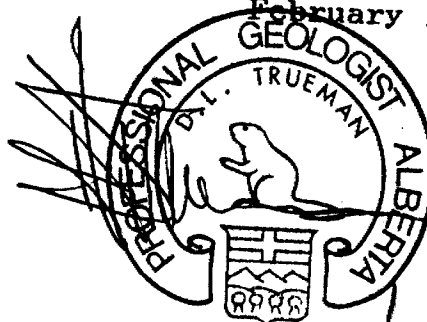
42D15NE0029 2.8901 WALSH

010

HIGHWOOD RESOURCES LTD.
DEAD HORSE CREEK PROJECT
WALSH TWP
ONTARIO

RECEIVED
FEB 17 1986
MINING LANDS SECTION

J.C. PEDERSEN
D.L. TRUEMAN
February 1986



Trueman
23375



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DEADHORSE CREEK PROJECT
WALSH TWP, ONTARIO
GEOLOGICAL REPORT 1985

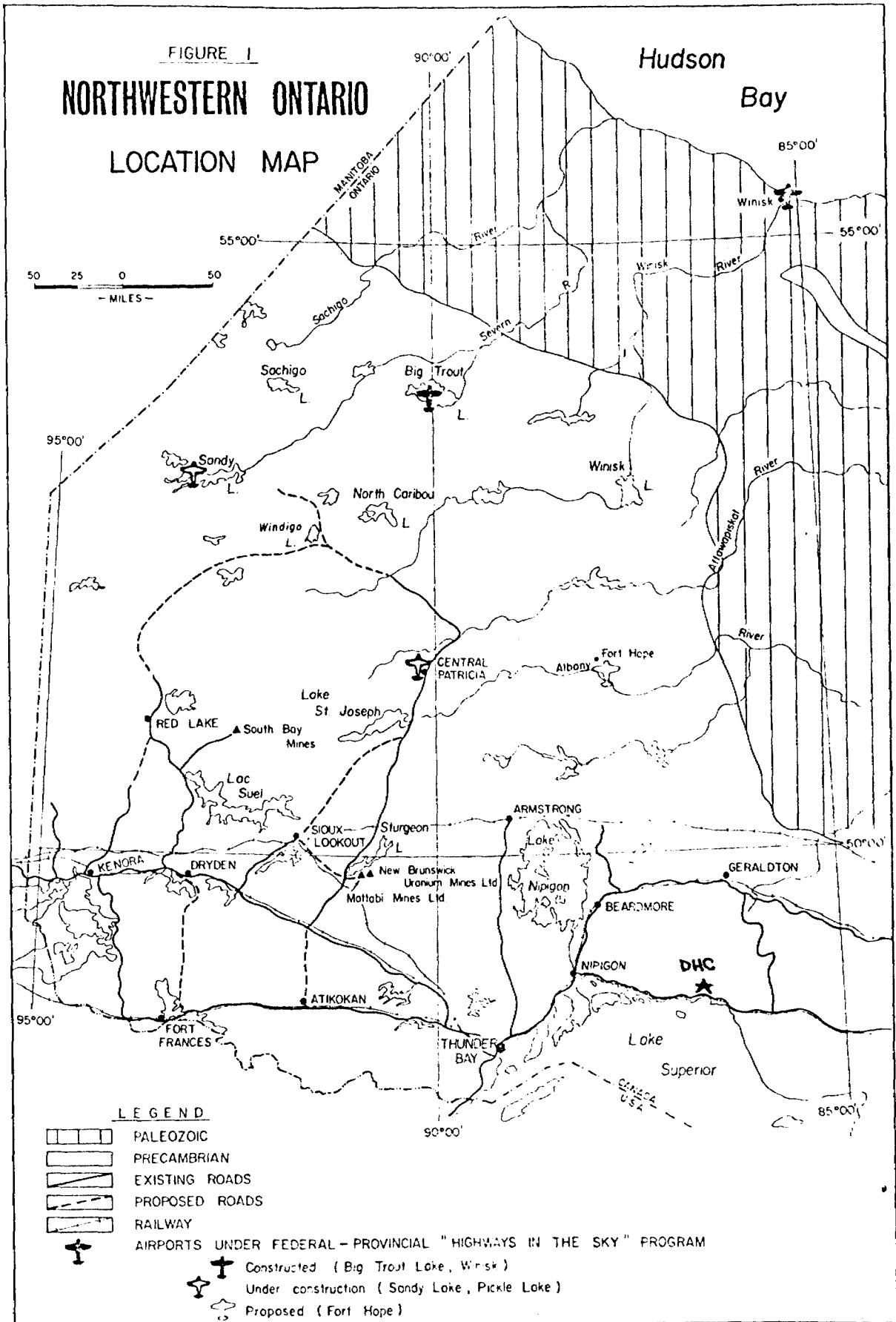
INTRODUCTION

Geological mapping and geochemical sampling was undertaken in June 1985 to explore and outline beryllium, yttrium, and rare earth-element anomalies associated with diatreme breccias. Highwood Resources Ltd. holds under option 30 claims encompassing these diatremes, with the majority of work focusing on 13 claims bounding them. *










LOCATION/ACCESS

The Dead Horse claims are located in the Walsh Township of the Thunder Bay Mining District 30 kilometers east of Terrace Bay, 3 kilometers north of the TransCanada Highway, and 6 kilometers north of Lake Superior (Fig. 1). Access is by all-weather logging road which bisects the claims. Topography is very rugged with hills to 100 meters in relief relative to Dead Horse Creek. The area is thickly wooded with aspen, birch, spruce, and alder understory; combined with cliffs and ridges, navigation and traversing is often difficult.

FIGURE 1
NORTHWESTERN ONTARIO
LOCATION MAP



LEGEND

-  PALEOZOIC
-  PRECAMBRIAN
-  EXISTING ROADS
-  PROPOSED ROADS
-  RAILWAY
-  AIRPORTS UNDER FEDERAL - PROVINCIAL "HIGHWAYS IN THE SKY" PROGRAM
 -  Constructed (Big Trout Lake, Winisk)
 -  Under construction (Sandy Lake, Pickle Lake)
 -  Proposed (Fort Hope)

PREVIOUS WORK

The first detailed geological mapping carried out by J. Walker in the 1950's was published in 1967 in the ODM Geological Report 50. No mention of diatreme structures is made.

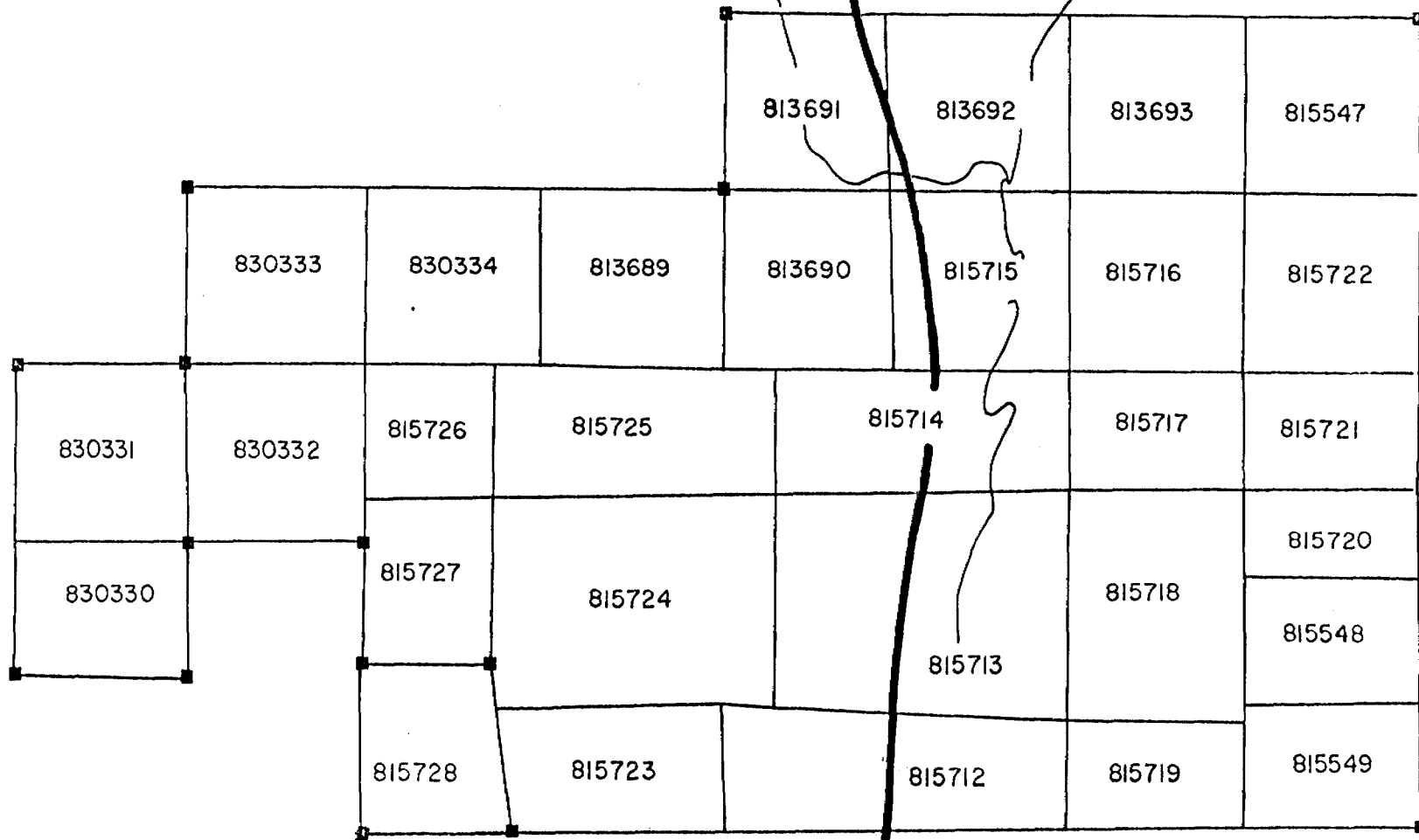
In 1977, the Dead Horse Complex was staked by Gulf Minerals Canada as a U-Th prospect. Prospecting and trenching were carried out in that year. In 1978, a grid was cut and geological mapping and 8 diamond drill holes were completed (Keil, 1978). The claims were subsequently allowed to lapse.

The Ontario Geological Survey undertook detailed mapping and sampling of diatremes in 1978 & 1979 (Sage 1982).

The area has been restaked several times by various groups, and 30 claims are currently held under option by Highwood Resources Ltd. (Fig. 2).

FIELD WORK

Thirteen claims encompassing 5 diatreme breccias were mapped and sampled in June 1985. A northeast-southwest grid totalling 9 miles was cut for mapping and sampling control. Geochemical sampling was done at 50 meter intervals with a line spacing of 50 meters. An Exploranium Scintillometer was used to locate and measure zones of



WALSH TWP. G-636

Fig. 2

radioactivity. Drill core from 8 drill holes on the property was re-logged and sampled. Rock and core samples were assayed for Be, Y, and Ce.

REGIONAL GEOLOGY

The Dead Horse Creek complex is part of an east-west trending belt of Archean metavolcanics and metasediments. Metavolcanics consist of andesitic flows, pillow lavas, and pyroclastics. Metasediments are semi-pelitic, argillaceous, and could in part be volcanically derived. Late Archean intrusive granitoids subsequently folded and faulted the earlier supracrustals during the Kenoran Orogeny (Walker 1967).

The Coldwell Alkaline Complex was emplaced during the Neohelikian east of the Dead Horse Creek complex. Syenites, syeno-diorites, and related feldspar porphyry and syenitic dikes comprise the main Coldwell rocks in the area.

The Dead Horse Creek diatremes have a maximum age of $1,085 \pm 15$ Ma based on the age Coldwell fragments within the diatremes (Sage 1982), and may be related to a deep-seated alkaline intrusive or a late stage de-gassing of the Coldwell Complex.

Cross-cutting diabase, aplite, and lamprophyre dikes are late Precambrian, but their origins and relative ages are unclear.

LITHOLOGY OF THE DEAD HORSE CREEK CLAIMS

META-ANDESITE (1)

Mafic metavolcanics form a northwest trending belt through the center of the property. They are andesitic in composition and can be distinguished from adjacent metasediments by their darker color, greater hardness, and locally by evidence of flow banding and partially preserved pillow structures. Local amphibolite and weak foliation indicate recrystallization due to regional metamorphism. Meta-andesite is dark gray on weathered surface with occasional ribbed or vermicular weathering. They are dark greenish-black on fresh surface, commonly with blastic euhedral feldspar and minor disseminated pyrite.

Contacts with metasediments are obscure due to poor outcrop exposure, weathering, and similarity of the two units on weathered surfaces. Possible interlaying exists toward their contacts.

METASEDIMENTS (2)

Medium gray, fine-grained metasediments are the predominant rock type in the area. They occur as two separate belts bisected by meta-andesite and flanked to the northeast and east by plutonic syenitic rocks. They display a partially preserved bedding with a moderate east-west foliation paralleling bedding planes. Biotite commonly imparts a weak lineation. Composition is essentially quartz-feldspar-biotite with common chloritization of

mafics. Numerous concordant quartz and quartz-carbonate stringers and blebs occur throughout. Locally common small white feldspathic porphyroblasts are stretched and aligned parallel to the foliation. Abundant quartz-filled tension and shock(?) fractures occur in proximity to diatremes, particularly around the west diatreme.

Origin of metasediments is uncertain due to recrystallization and metamorphism. Contacts with syenite are sharp and commonly brecciated.

SYENITE/SYENODIORITE (3)

Syenitic rocks of the Port Coldwell Complex intrude metavolcanics and metasediments in the northeast and central sections of the claims. They are massive, fine to medium-grained, light pink to light gray in color. Composition and texture vary locally but generally a 2-feldspar biotite syenodiorite predominates, locally grading to fine-grained aplitic textures. Large xenoliths of metasediments and metavolcanics are common near contacts. Quartz occurs rarely as minute blebs. Intrusive syenite probably plunges at a shallow angle under much of the claim area.

A gray biotite diorite unit (3A) cross-cutting metasediments and in turn brecciated by feldspar porphyry dikes is probably a much earlier and unrelated plutonic granitoid. It is likely the same unit described by Sage (1982) as a Biotite Trondhjemite Dike. It displays a pronounced schistosity that is pre- or syn-tectonic with the Coldwell intrusion. This unit occurs proximal to the

feldspar porphyry dike at the West diatreme.

FELDSPAR PORPHYRY; SYENITE APLITE (4)

Abundant east-west trending syenitic dikes intrude metasediments and metavolcanics, varying in width from <1 to 5 meters. Dikes vary texturally but appear similar compositionally. Feldspar porphyry is light gray with subhedral pinkish-gray to white feldspar phenocrysts 1-2 mm in diameter in a fine-grained gray feldspathic groundmass. Accessory biotite ranges from 1-10%, commonly imparting a vague lineation. Aplitic dikes are finer grained homogeneous versions of feldspar porphyry. There is no evidence of dikes cross-cutting syenite; however they are probably related to the Coldwell intrusion and may be late stage apical dikes.

DIATREME BRECCIA (5)

Mapping has defined 5 diatremes occurring in a north-south trending "chain". Sage (1982), identified each by its spatial location, ie. "East Dead Horse Subcomplex", "North Dead Horse Subcomplex" etc. The same spatial reference is used in this report to correspond with Sage's nomenclature.

The diatremes are ovoid to ellipsoid in plan, ranging from 30 meters x 70 meters to 350 meters x 600 meters. Limited diamond drilling indicates that they are steeply plunging to vertical stockworks, narrowing rapidly at depth. The West Diatreme narrows from 30 meters to a width of 2 meters at a vertical depth of 40 meters. It is

possible that the hole intersected a narrow sheared keel and the diatrema is actually plunging eastward.

Diatreme breccia is subdivided into two subjective categories: strong brecciation and alteration (5A), and breccia "channels" invading and fragmenting country rocks (5B). A third subdivision is a mineralized shear zone (5C) terminating at the west end of the West Diatrema. The mineralization is related to diatrema emplacement but the origin or age of the shearing is uncertain.

The breccias have highly varying textures, with wide ranges in fragment size, shape, color, and composition. Matrix is also variable but generally is dark, fine-grained, and siliceous with local hematization. Random weathering in relief of fragments occurs in all diatremes and probably reflects elevated levels of carbonate in matrix. In the West Diatrema fragments weather in relief but matrix shows pronounced silification. Fragment density is variable although the trend is toward 60% to 70% closely packed fragments. Sage (1982) subdivides breccia on the basis of fragment density. These densities are commonly gradational and erratic and therefore difficult to define.

Fragment composition is dependent on the country rock hosting the diatremes. To the east breccias tend to be polymictic. Degree of fragment transport varies; angularity of fragments and proximity to their respective country rock suggests minimal transport. Locally, fragments display pronounced rounding, but no fragments of deep-seated origin

or of composition other than local country rock have been observed. Some fragments display alteration haloes, with thin white coronas along their margins. This is most obvious in the Central and North Diatremes. Local scapolite replacement, most readily identified by weathered "wormy" textures, occurs in the northern part of the South Diatreme.

Late deuteric hematization and silicification of matrix and fragments is very pervasive, imparting a rusty red cast to much of the diatreme structures. Elevated radioactivity commonly occurs in these zones, particularly in the North, South, and West Diatreme. Hematized zones tend to be more radioactive and mineralized than gray, non-hematized breccias.

Abundant breccia "channels" occur on the margins of the larger diatremes. These range from a few centimeters to several meters in width and are related to the central "core" of the diatreme. Shock and tension fractures in the country rocks created by diatreme emplacement left routes for volatiles to enter and fragment these host rocks. The "channels" commonly contain abundant fragments, although many channels are obscure due to their fine grained nature and lack of macroscopic fragments. These could be the source of isolated radioactivity in metasediments reported by Keil (1978) and Sage (1982). Contacts with country rock are obscure and interpretive due to the nature of fracture patterns and "channel ways" of diatreme volatiles.

LAMPROPHYRE (6)

Several narrow lamprophyre dikes occur in the northern map area. These dikes range from 1 to 5 meters in width and trend north-northwest, and east-west. They are very fine-grained and weather dark gray to black. All contain subhedral mafic phenocrysts 2 to 5 millimeters in diameter, commonly weathering in relief. A small lamprophyre adjacent to the West Diatreme contains 20-30% biotite phenocrysts.

Origin and age of the lamprophyres is uncertain. Sage (1982) reports a carbonate-rich lamprophyre cross-cutting the South Diatreme. Several narrow dikes can be seen intruding the North Diatreme in drill core. Dikes are non-radioactive.

DIABASE (7)

Several east-west trending trachytic diabase dikes cross-cut country rocks and diatreme breccia. They are a dark greenish gray with a fine grained ground mass. White tabular plagioclase phenocrysts ranging in size from .5 mm to 2 cm comprise up to 40% of the unit. Phenocrysts have a sub-parallel alignment, imparting a trachytic fabric. Local glomeroporphyritic textures exist. The diabase dikes observed are non-radioactive and do not appear to be mineralized. Some sections are weakly magnetic.

FELSITE (8)

Light pinkish-brown aphanitic dikes are observed in drill core, cross-cutting diatreme in the North Diatreme.

They are homogeneous and commonly contain stoped diatreme fragments. They appear to be siliceous and could be related to the diatremes by the same parent magma.

STRUCTURAL GEOLOGY

Several pronounced linears trending east-west and north-south transect the map area. In some cases these could reflect faulting. Glaciation and weathering have exposed diatremes in relief producing ridges which often resemble tectonic linears, particularly at the west and south flanks of the North Diatreme. Local shearing and offsets are difficult to determine due to preferential weathering of layering and bedding in metasediments and metavolcanics with subsequent overburden development.

In the West Diatreme area, an east-west trending shear zone 5 meters wide and at least 70 meters long appears to terminate at the southwest flank of the diatreme. It could continue under muskeg at its west extension. This shear zone is highly radioactive and mineralized, and could be syngenetic with diatreme emplacement. A feldspar porphyry dike immediately north of the shear zone displays parallel offset.

Ptygmatic folding of quartz stringers in metasediments is common and is probably related to regional folding (Walker 1967).

It has been suggested that diatreme emplacement

occurred along a major north-south fault under Dead Horse Creek (Sage 1982), the presence of which has been inferred by unmatching lithologies on either side of the creek. Lithologies do appear to match, however, and at least within the claim area more evidence is needed to indicate the presence of such a fault.

MINERALIZATION

Mineralization in the Dead Horse Creek Diatremes is largely associated with zones of radioactivity. Be, Y, and REE's (Rare Earth Elements) occur with Th-U mineralization. From geochemical data it appears that no significant Be-Y-REE mineralization occurs outside of these zones. Radioactivity is largely confined to diatremes; it would appear that all metasomatic mineralization is strictly confined to these breccias. Keil (1978) reports radioactivity in several lamprophyre dikes and Sage (1982) reports radioactivity in metasediments immediately north of the North Diatreme. It is possible that at least some of this can be attributed to obscure breccia channels in the host metasediments.

Mineralization is spotty and erratic within the diatremes. It is mainly confined to hematized "red breccias". Fragments and country rock are completely barren: scintillometer readings drop off dramatically in xenoliths or adjacent country rock. In the shear zone at

the West Diatreme, strong Th-mineralization occurs. It is strictly confined to within the shear zone and to the diatreme to the east. Several elevated Be and Y assays were obtained from pits in this shear zone and lower assays from the diatreme. The radioactive mineral is chocolate brown, fine-grained, and is probably a mixture of thorite and other Th-minerals. Be is contained in phenacite (Sage 1982). Y and REE minerals have not been positively identified.

SUMMARY

It is in the West Diatreme and in several narrow drill intersections in the North Diatreme that the best Be-Y values have been found. Mineralization appears to be strictly confined to diatreme breccia and its' equivalents; little or no metasomatism or mineralization occurs in adjacent wall rock. More work is required to locate, outline, and define any zones of economic interest.

REFERENCES

Keil, T., 1978: "Dead Horse Creek Project: Geological Report"; Gulf Minerals Canada Ltd.

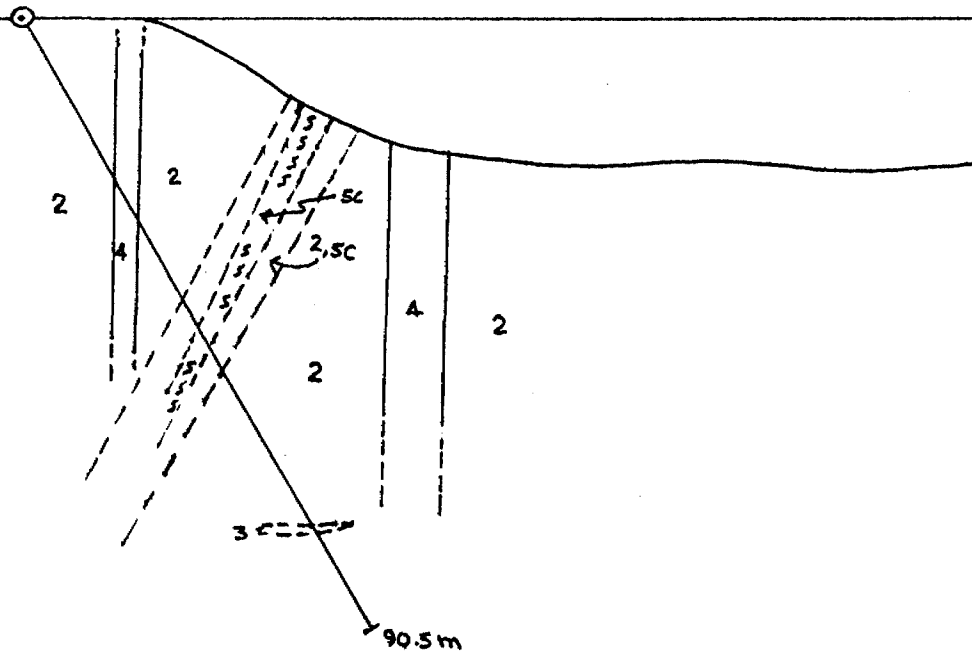
Sage, R.P., 1982: Mineralization in Diatreme Structures North of Lake Superior; Ontario Geological Survey, Study 27.

Walker, J.V.R., 1967: Geology of the Jackfish Middleton Area; Ontario Department of Mines, Geological Report 50.

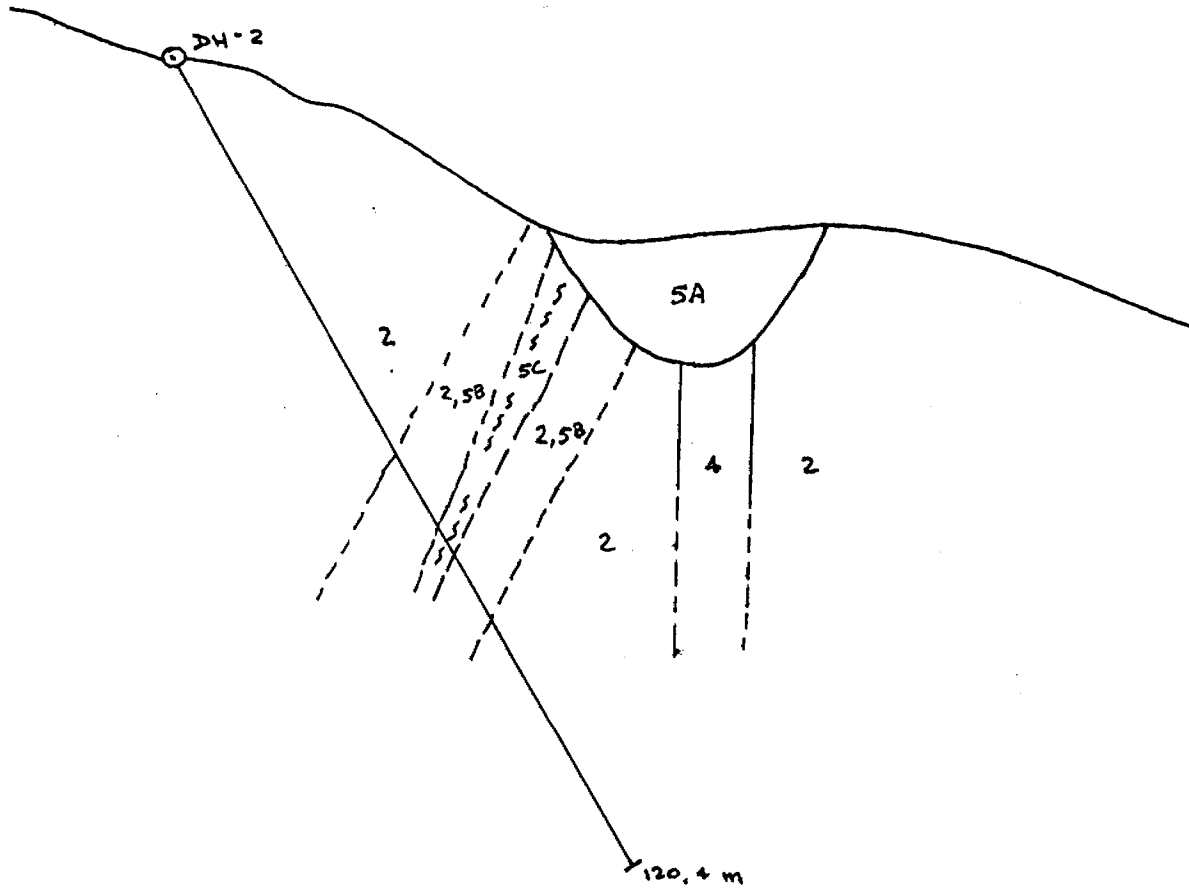
SSW

DH-1

NNE



HIGHWOOD RESOURCES	
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VERTICAL SECTION	DH-1

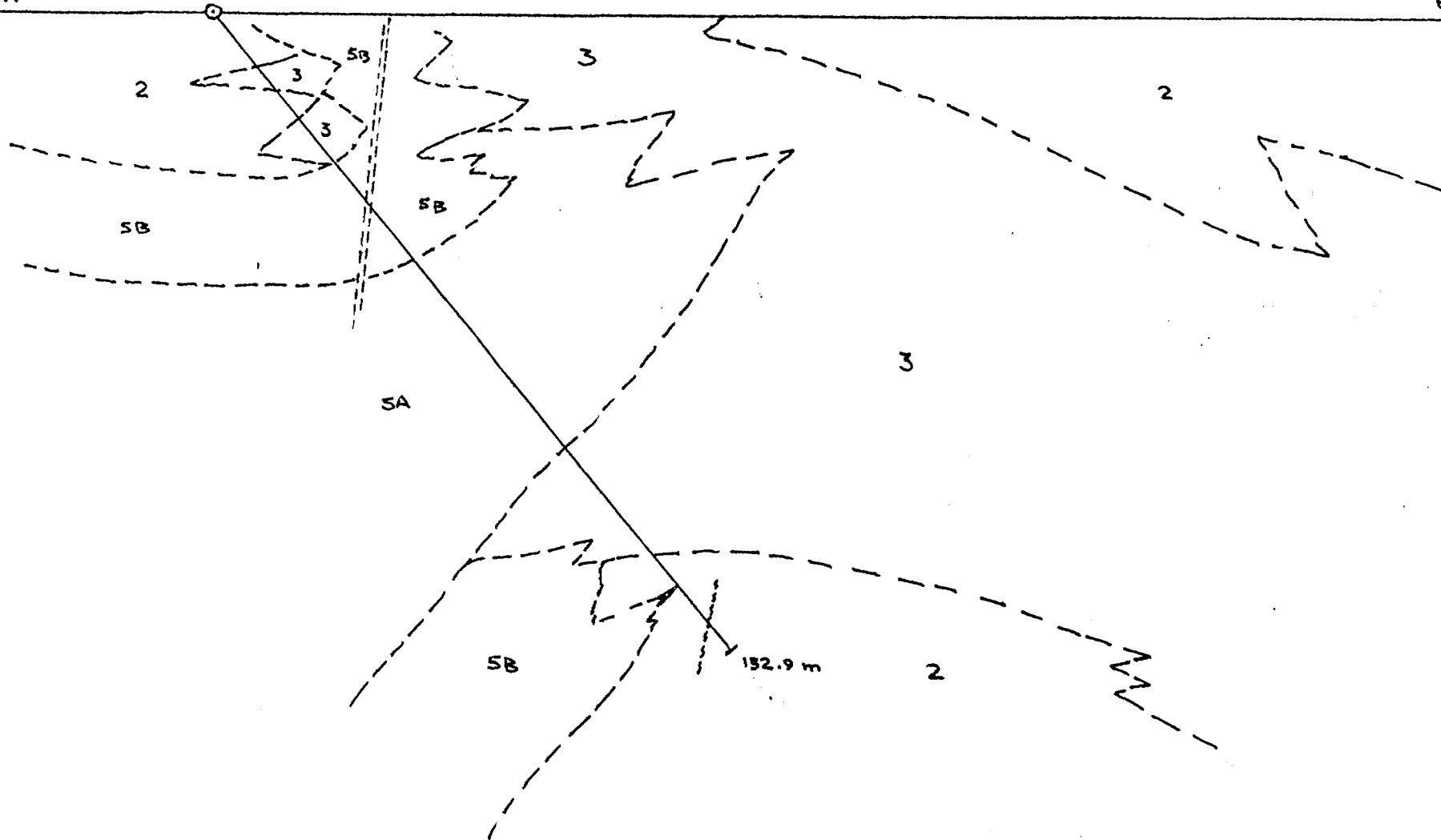


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VERTICAL SECTION DH-2	

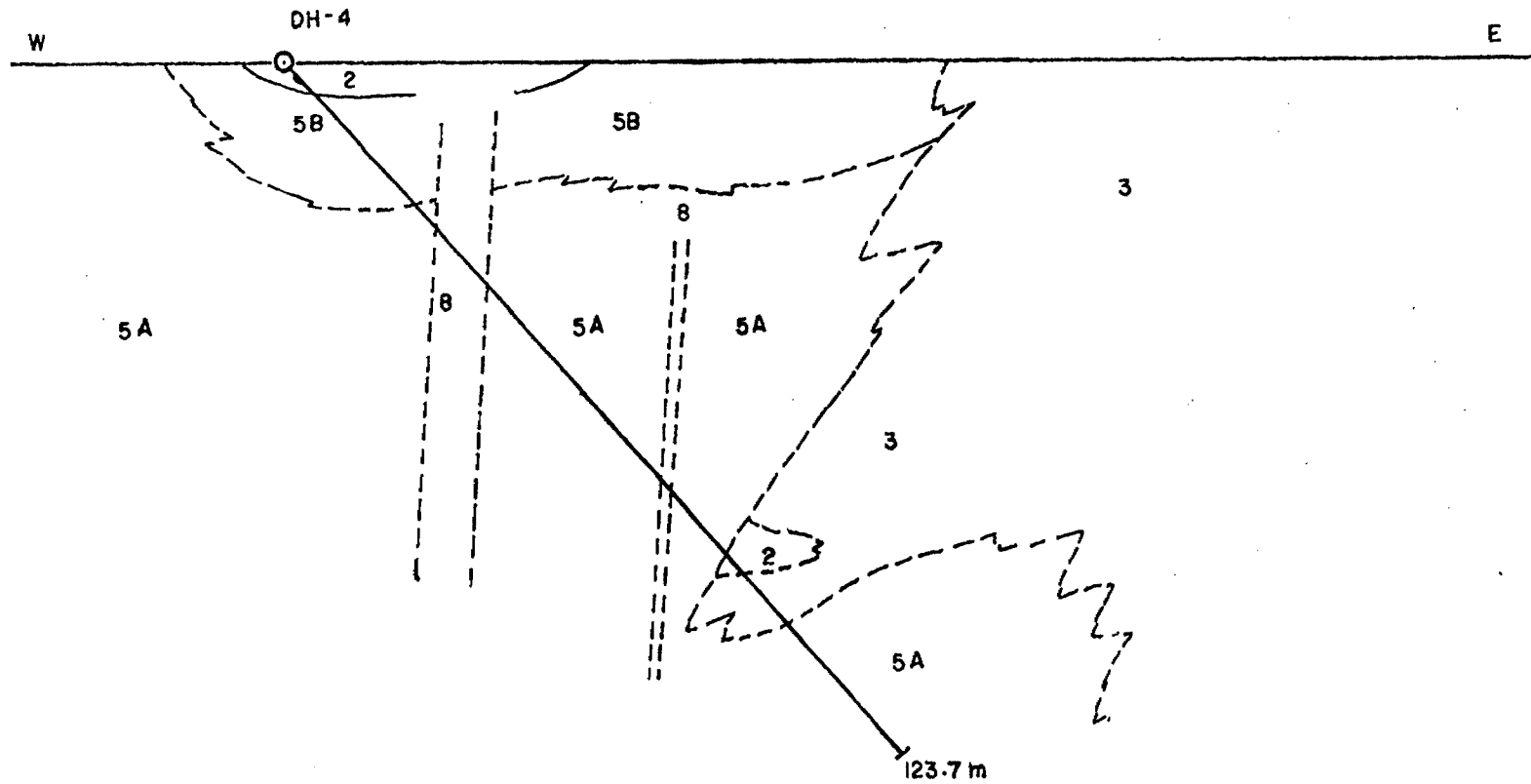
W

DH-3

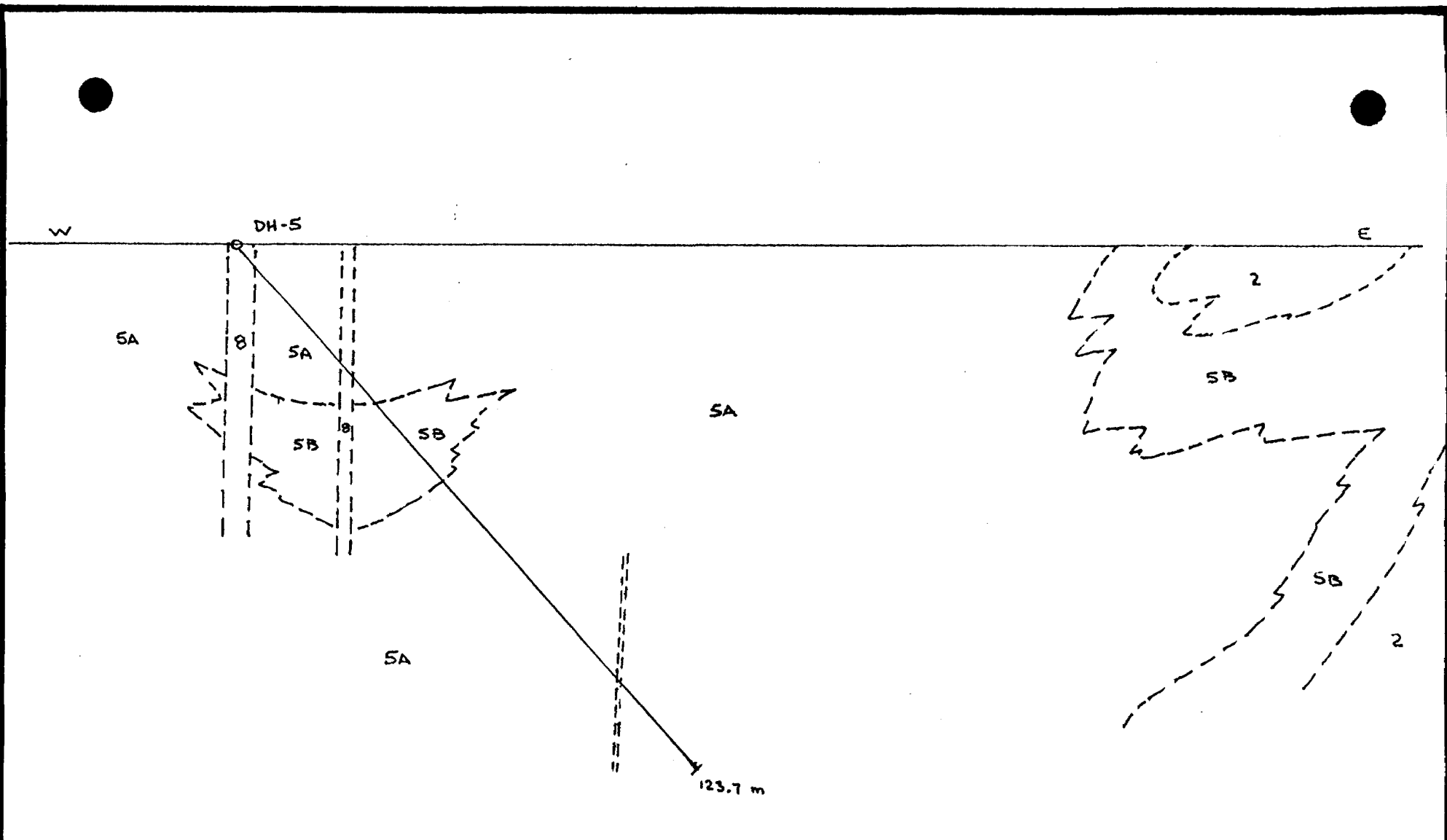
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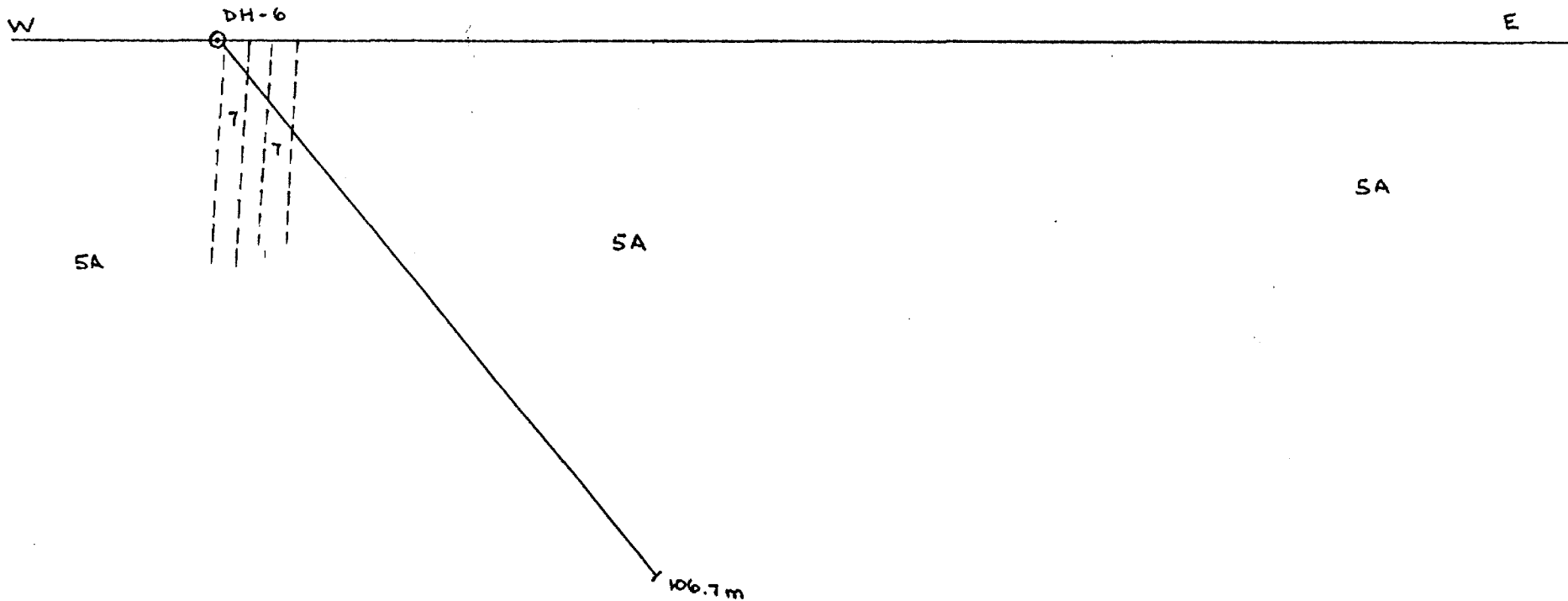
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VERTICAL SECTION DH-3	



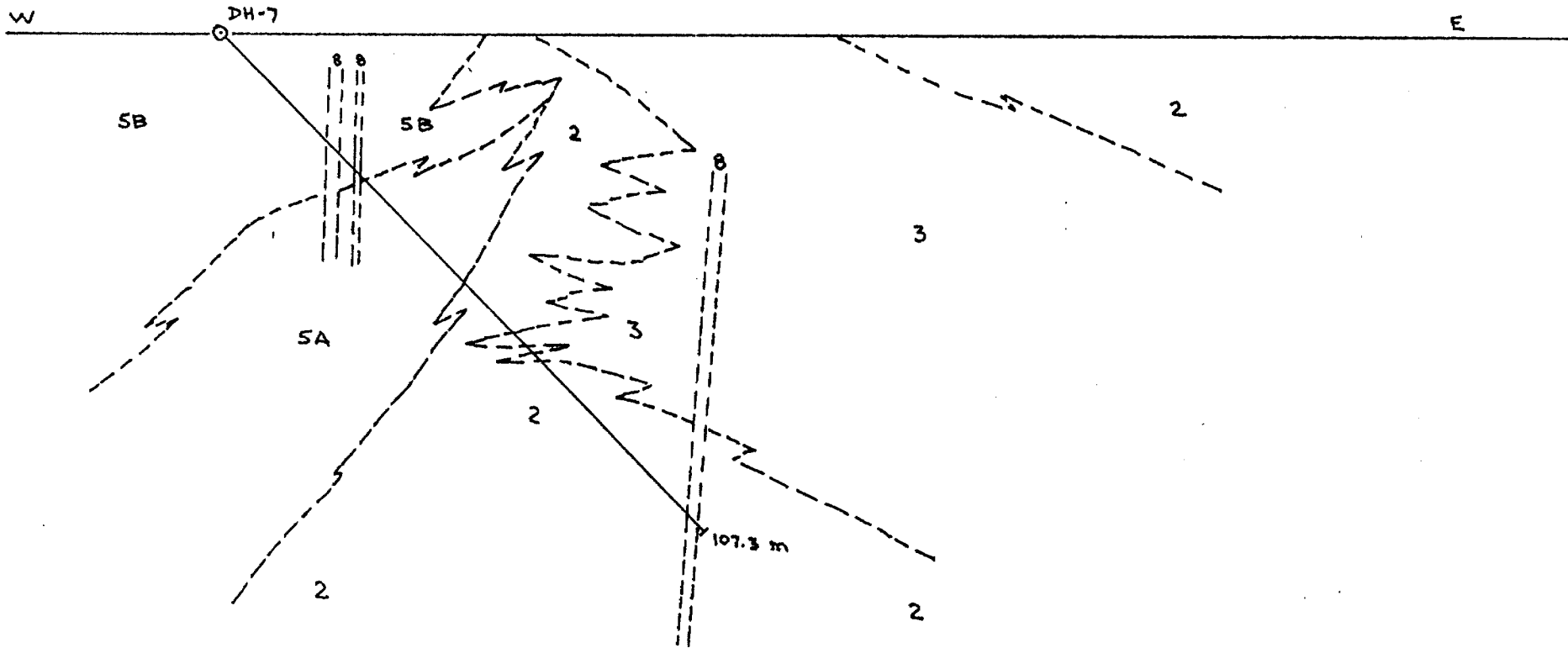
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VERTICAL SECTION	DH-4



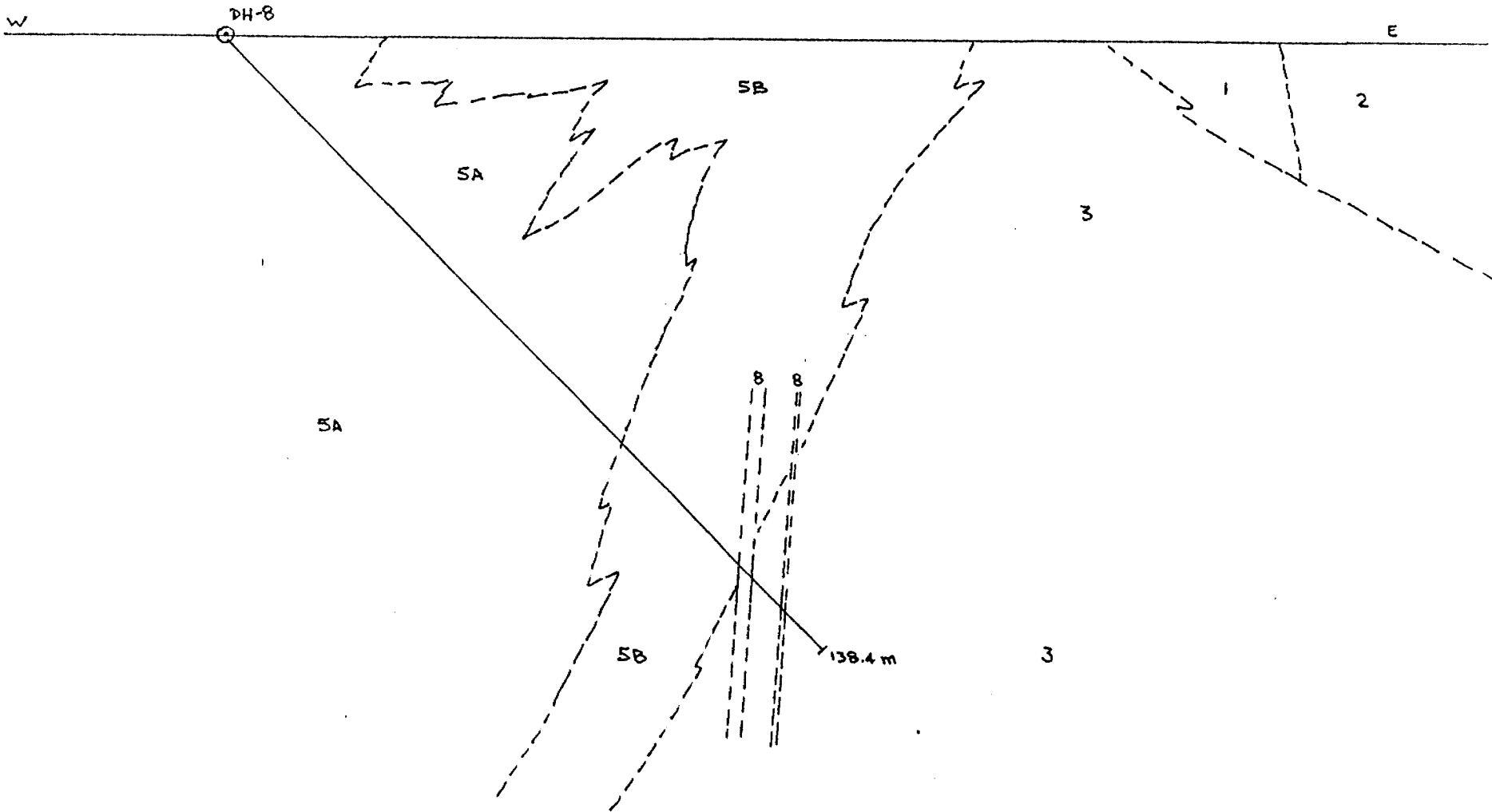
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VERTICAL SECTION	DH-5



HIGHWOOD RESOURCES	
	1:1000
VERTICAL SECTION DH-6	



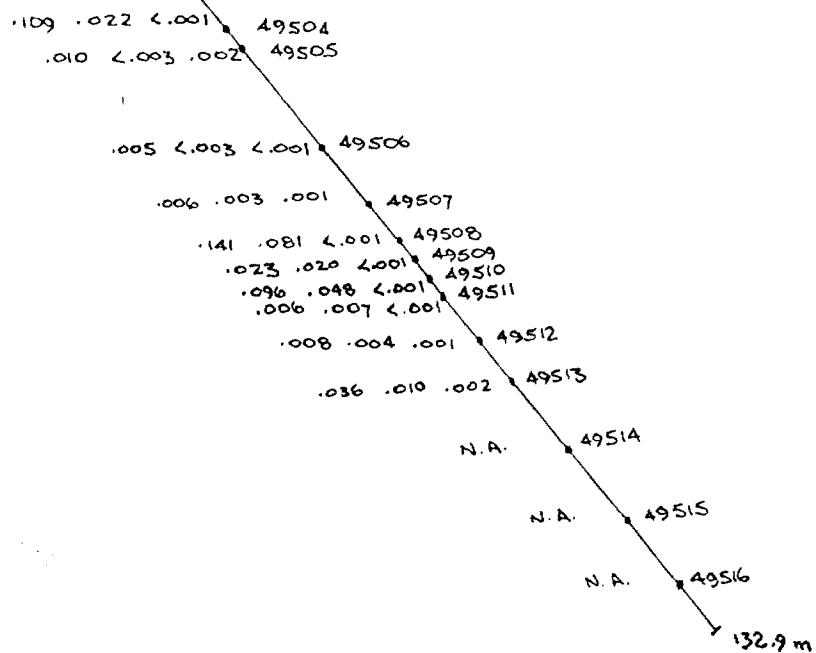
HIGHWOOD RESOURCES	
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VERTICAL SECTION DH-7	



HIGHWOOD RESOURCES	
	1:1000
VERTICAL SECTION	DH-8

Ce₂O₃ Y₂O₃ BeO

DH-3

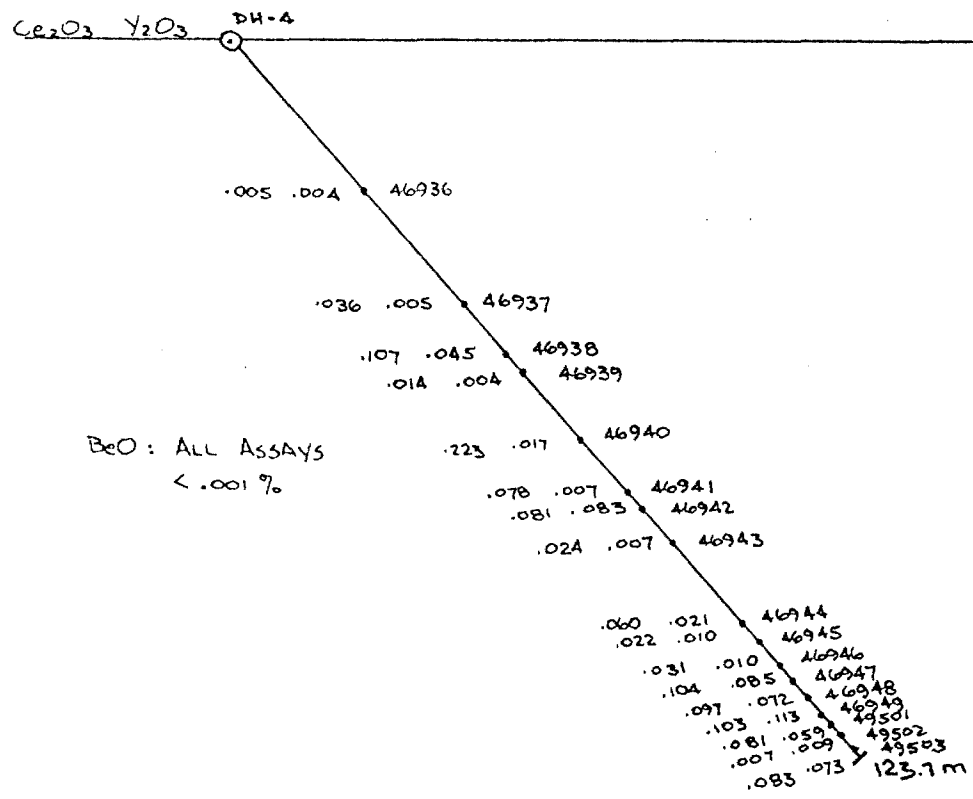


HIGHWOOD RESOURCES

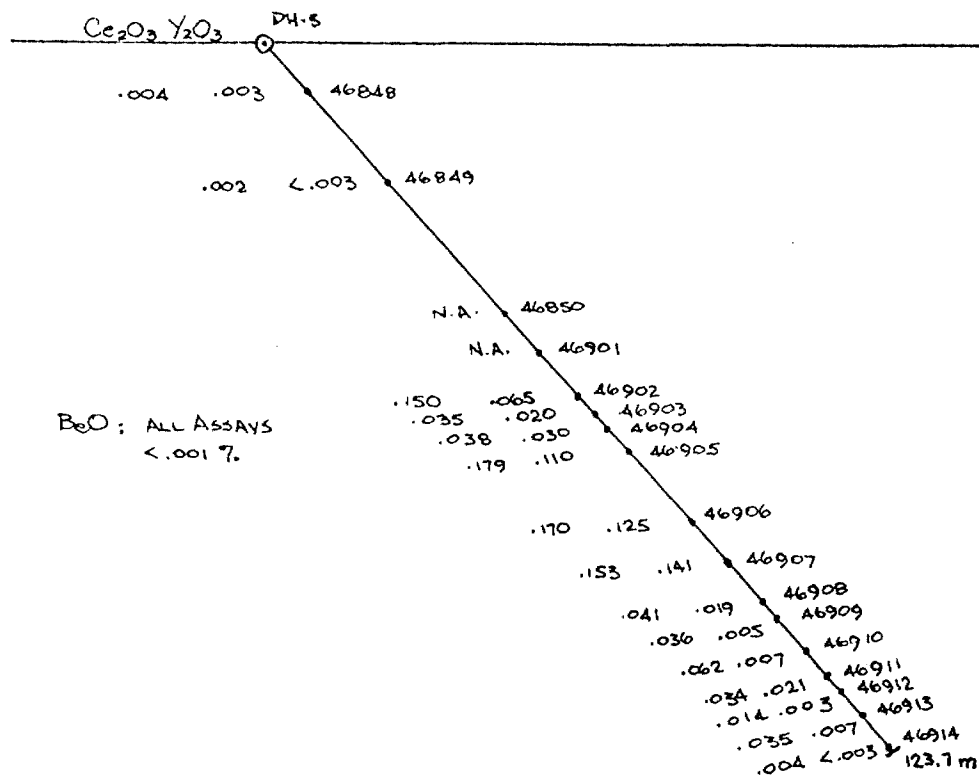
11000

ASSAYS (%)

DH-3



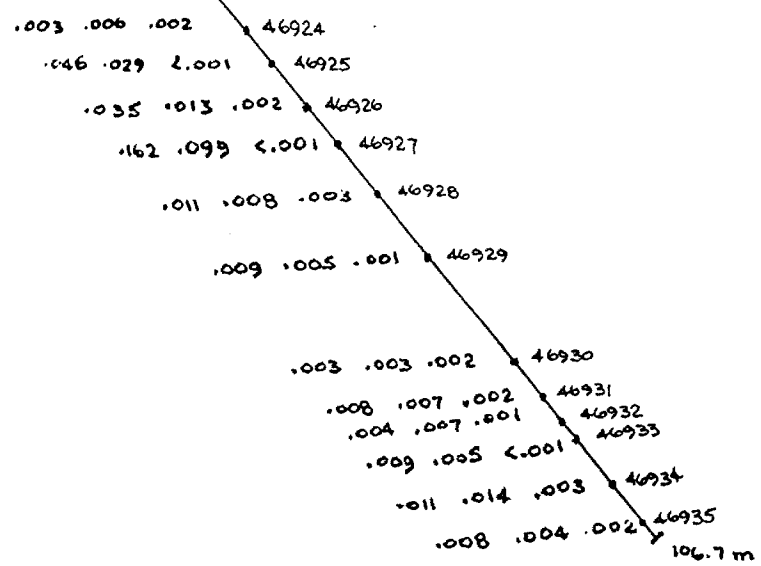
HIGHWOOD RESOURCES	
	1:1000
ASSAYS (%)	DH-4



HIGHWOOD RESOURCES	
	1:1000
ASSAYS (%)	DH-5

Ce₂O₃ Y₂O₃ BeO

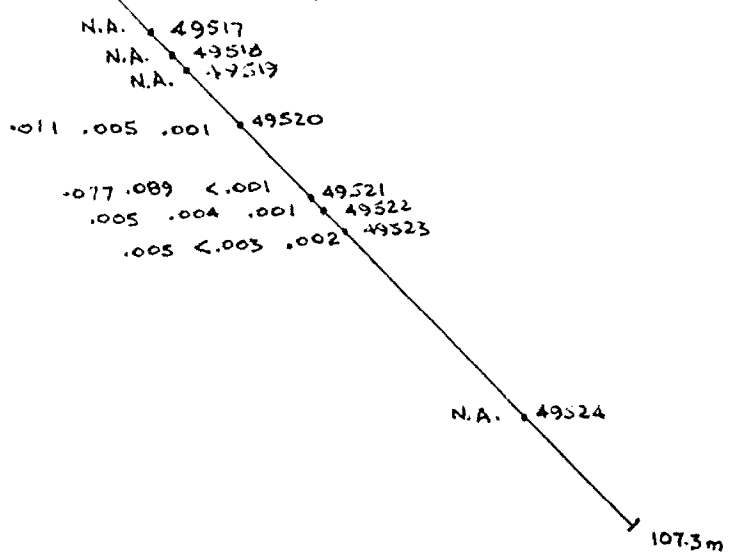
DH-6



HIGHWOOD RESOURCES	
	1:1000
ASSAYS (%)	DH-6

Ce₂O₃ Y₂O₃ ZrO

DH-7



HIGHWOOD RESOURCES	
	1:1000
ASSAYS (%)	DH-7



Y_2O_3 C_2O_3 DH-8

.005 <.003 46915

.005 <.003 46916

.005 .004 46917

.005 <.003 46918

BeO: ALL ASSAYS
<.001%

.005 <.003 46919

.009 .005 46920

.057 .021 46921

.054 .031 46922

.056 .012 46923

138.4 m

HIGHWOOD RESOURCES	
	1:1000
ASSAYS (%)	DH-8

HIGHWOOD RESOURCES LTD.

DIAMOND DRILL RECORD

DDH DH-3

Lat 13+00 N

Long 0+08E

El.

Project DEADHORSE-Ont.

Inclin -50°

Az 090

EOH 436'/132.9 m

Co. Gulf Minerals

Date Start November 1978

Date Finish November 1978

Logged by LDSJ/JCP

Page 1 of 3

From	To		Description	Tag	From	To	Width			
0	5.0	1.5	<u>CASING</u>							
5.0	38.0	11.6	<u>METASEDIMENTS</u> ; Medium gray, fine grained local fracturing, quartz stringers (ptygmatic folding) and occasional larger blebs. Foliation (possible bedding) at approx. 24° to core axis. Some horizons contain small approx. 1 mm anhedral white feldspar porphyro blasts. Lower contact with syenite sharp but irregular.							
38.0	55.0	16.8	<u>SYENITE</u> ; Light gray, inequigranular, massive, fine to medium grained. Probably 2 feldspar (white plagioclase, pink k-feldspar?) and biotite. Biotite subhedral, 0.5-5mm. Minor chloritized fractures with some quartz and very minor pyrite. Several small (1-3 cm) partially assimilated metasediment xenoliths. Lower contact perpendicular to core axis. Large (5x10cm) metased. Xenolith (stoped) adjacent to contact. 52 10 cm metased. xenolith.							
55.0	75.0	22.9	<u>METASEDIMENTS</u> ; As previous. 69-70 Fractured, chloritized quartz vein. Minor feldspar and very minor fe-sulphides. 73 10 cm quartz vein, as above.							
75.0	102.0	31.1	<u>SYENITE</u> ; More fine grained than previous section. Slightly more pink in colour (more pink feldspar) Several small, less than 2 cm, partially assimilated metased. xenoliths. Few chloritized fractures with minor associated fe-sulphides. Upper contact sharp at approx. 25° to core axis. towards boundary with diatrema, syenite fractured and locally brecciated							
102.0	116.0	35.4	<u>DIATREMA BRECCIA</u> ; Fine grained, greenish gray matrix approx. 90%. Matrix more green in some							

From	To		Description	Tag	From	To	Width	BeO	CaO	Y ₂ O ₃		
			sections. Most fragments syenitic.									
			103-116 Split core. Radioactivity 225-250 cps.									
116.0	130.0	39.6	<u>SYENITE</u> ; Fractured and locally brecciated. Some pink alteration. Cut by several breccia channels.									
130.0	132.0	40.2	<u>LAMPROPHYRE</u> ; Very fine grained, dark gray massive. With anhedral black phenocrysts 2-5 mm and subhedral white phenocrysts 2-8 mm (probably feldspar). Cuts syenite. Upper contact at 55° to core axis. Lower contact at approx. 60° to core axis.									
132.0	165.0	50.3	<u>SYENITE</u> ; As previous; with several small breccia channels some pink alteration. Lower contact with meta-sediments is sharp at 45° to core axis.									
165.0	166.0	50.6	<u>METASEDIMENTS</u> ; 30 cm of intact metasediments gradational to breccia.									
166.0	305.0	93.0	<u>DIATREME BRECCIA</u> ; 166-221 Matrix fine grained, dark gray to green in sections 10-15%. Locally matrix appears to be replaced by quartz. Most fragments gray metaseds(?) with lesser syenitic frags and very minor quartz frags. Most fragments in size range 5-10 cm. Most frags have pink reaction rims. Cut by several hematized carbonate stringers. Minor Fe-sulphides disseminated and along fractures.	43507	201			<.001	.006	.003		
			177.5 15 cm quartz vein, fractured and chloritized along fractures.	43508	222			<.001	.141	.081	*	
			221-252.5 Split core. Matrix up to 80%. Fragments are pinkish red (completely altered). Radioactivity 250-400 cps.	43509	233			<.001	.023	.020		
			252.5-267 Section consisting mainly of large metased. fragments which have been more assimilated making it more difficult to distinguish from matrix.	43510	240			<.001	.026	.048	*	
			267-305 As previous. More variety of fragments. Matrix appears more chloritized. Cut by hematized carbonate stringers.	43511	252			<.001	.006	.017		

Lat 12+00 N

Long 2+42 W

El.

Project DEADHORSE-Ont

Inclin -48°

Az 090°

EOH 406' / 123.7 m

Co. Gulf Minerals

Date Start November 1978

Date Finish November 1978

Logged by JCP/LDSJ

Page 1 of 3

From	To		Description	Tag	From	To	Width			
0	4.0	1.2	<u>CASING</u>							
4.0	55.0	16.8	<u>METASEDIMENTS</u> : Medium gray, fine grained, semi-pelitic in composition. Fractured, with local brecciation. Foliation at 40° to core axis. Local small diatrema channels, quartz commonly along fractures, with minor sulphides. 27-32 breccia channel. fine grained gray matrix. Numerous altered syenite fragments and stoped metasediments. Most fragments have thin white-pink reaction rims. 34-35.5 Breccia channel.							
55.0	65.5	20.0	<u>SYENITE</u> ; Light gray, fine-medium grained, 2-feldspar, biotite syenite. Massive with local fracturing slight pink alteration. 56 3 cm quartz vein. 58 4 cm vein with syenite fragments in dark matrix.							
65.5	84.0	25.6	<u>METASEDIMENTS</u> ; As previous. Increasingly altered and brecciated toward contact with diatrema. 70-71 Breccia channel, siliceous matrix. 75.5-77 quartz vein.							
84.0	97.5	29.7	<u>DIATREMA BRECCIA</u> ; Intense brecciation. Fragments altered to pinkish red colour. Minor gray metasedimentary fragments. Fragments 1 mm-5 cm, with 30 cm metasediment xenoliths. 15% matrix, dark greenish gray, fine grained, chloritic. Local quartz cement.							
5	130.0	39.6	<u>FELSITE DIKE</u> ; Upper contact 25° to core axis, with enclosed breccia fragments. Light pinkish brown in color, darker at top of section. Fine grained to aplitic. Little visible quartz. Lower contact 45° to CA.							

From	To		Description	Tag	From	To	Width	Reo	Reos	Reos		
308.0	330.0	100.6	<u>SYENITE</u> ; Intrusive contact with metasediments. Massive medium grained, pinkish gray. Locally fractured and brecciated downhole. Lower contact brecciated.	46246	330.4			<.001	.031	.012		
330.0	406.0	123.7	<u>DIATREME BRECCIA</u> ; Large syenite fragments at top contact Abundant pink and altered metasediment fragments to 6 cm, lesser syenitic fragments. Up to 40% matrix, locally pistachio green and moderately magnetic, some sections with virtually no macroscopic fragments, particularly in split sections. Disseminated sulphides (pyrite). 348.5-395 core split by Gulf. 450-500 cps. 46.5' 395.5-397 Syenite xenolith. 400-406 Core split by Gulf. 450-500 cps. 6' EOH.	46248	373			<.001	.104	.082		
				46249	381.0			<.001	.037	.012		
				46250	388			.001	.102	.113		
				46251	392.1			<.001	.081	.059		
				46252	402.9			<.001	.007	.010		
				46253	402.9			<.001	.083	.072		

Hole ended in mineralization.

Lat 15+00 N

Long BL 0+00

El.

Project Deadhorse-Ont.

Inclin -45°

Az 090

EOH 352' / 107.3 m

Co. Gulf Minerals

Date Start November 1978

Date Finish November 1978

Logged by LDSJ/JCP

Page 1 of 3

From	To		Description	Tag	From	To	Width			
0	4.0	1.2	<u>CASING</u>							
4.0	97.0	29.5	<u>METASEDIMENTS</u> ; Fine grained, medium gray. Foliated (possible bedding) at approx. 40° to core axis. Locally fractured and brecciated with some pink alteration. Several cross cutting quartz veins (some ptigmatic folding) and larger blebs. Occasional horizons with anhedral to subhedral, light pink feldspar(?) porphyroblasts. 62-63 Several fine grained, greenish brown veinlets, possibly analagous to feldspar. Oriented approx. 25° to core axis. 71-75 Split core. Small diatreme breccia channel. Fine grained dark gray matrix with pink altered fragments. Radioactivity 175-200 cps. 75-86 Section predominantly fine to medium grained greenish gray rock with 1-5 mm biotite crystals. Locally lineated. Lower contact with sediments is sharp though upper contact is gradational. Possible metasediments of dike. (lamprophyre)							
97.0	101.0	30.8	<u>FELSITE</u> ; Fine grained, pinkish brown with black crystals (biotite?) as in previously logged holes. Contact with metasediments sharp upper contact at approx. 40° to core axis and lower contact at approx 60° to core axis.							
101.0	106.0	32.3	<u>METASEDIMENTS</u> ; As previous. With 2 small breccia channels. At lower boundary, sediments become more fractured.							
106.0	179.0	54.6	<u>DIATREME BRECCIA</u> ; Large blocks of metasediments with some diatreme channels. Fine grained, dark gray matrix. Fragments mainly gray, metasediments with pink reaction rims. Size range 2 mm-10 cm. Several quartz stringers and blebs, minor quartz fragments. Lower contact gradational to metasediments.							

Lat 8+00 N

Long 2+63 W

El.

Project Deadhorse-Ont.

Inclin -45°

Az 090

EOH 454'/138.4 m

Co. Gulf Minerals

Date Start November 1978

Date Finish November 1978

Logged by LDSJ/BW

Page 1 of 2

From	To		Description	Tag	From	To	Width			
0	4.0	1.2	<u>CASING</u>							
4.0	394.0	120.1	<u>DIATREME BRECCIA</u> ; Fine grained, dark greenish gray to black matrix. Most fragments gray metasediments (0.5-25cm) and light pink to gray syenitic (granitic?) fragments (5-50cm) with lesser greenish gray metavolcanics (less than 10 cm) and minor quartz fragments. Fragments commonly have rims of quartz and/or pink alteration and some frags are completely altered to pinkish red and rarely are entirely replaced by quartz. Quartz stringers common. Less carbonate than in holes logged previously. Minor pyrite along fractures and occasionally disseminated in matrix. 92-95 Metasediment fragment with quartz stringers and granitoid (syenite?) veinlet. 238-244 Fractured and brecciated quartz vein? "Swirly texture". Associated Fe-sulfides 308-339, 344-365 Split core. Matrix is green to black larger percent than previous. Fragments pinkish red (ie completely altered). Fine grained disseminated sulfides and larger blebs common. Radioactivity 320-375 cps. 377.5-378.5 Matrix more green in colour than previous. Almost pistachio green. Chlorite? Epidote?							
394.0	394.5	120.2	<u>SYENODIORTTE</u> ; Irregular contact with diatrema. Appears to be pre-diatreme. See description from 407.5-425.							
394.5	407.5	124.2	<u>FELSITE</u> ; Very fine grained pinkish brown with small (less than 1 mm) black crystals less than 5% (biotite?) Upper contact sharp at approx 25° to core axis. Lower contact irregular with felsite fingering into syenodiorite.							



42D15NE0029 2.8901 WALSH

020

Mining Lands Section

File No 2.8901

Control Sheet

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	<input checked="" type="checkbox"/>	GEOCHEMICAL
	<input checked="" type="checkbox"/>	EXPENDITURE

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-no receipts

L.D.

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APR 0

Dennis K.

Signature of Assessor

Mar. 27/86.

Date

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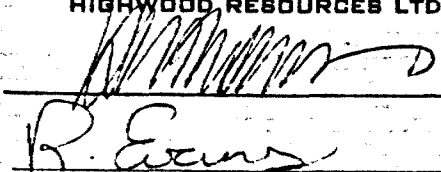
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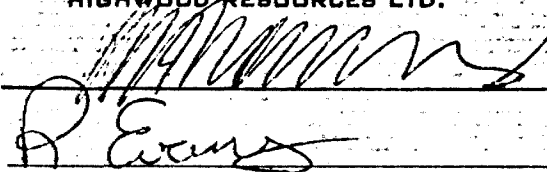
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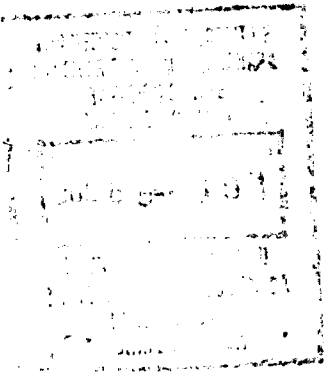
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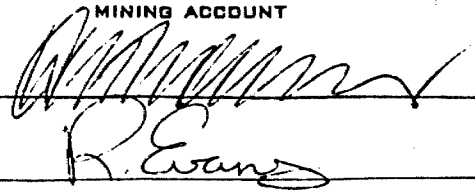
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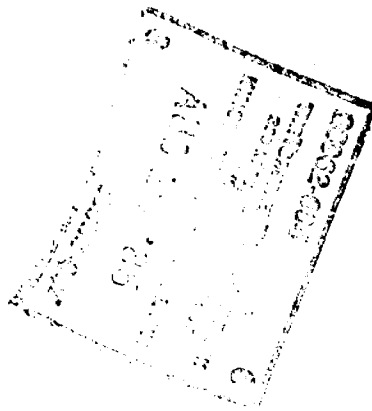
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ALBERTA

Ron Vandecamp
#0213332

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⑆0000291888⑆

36

Chris C. (Chris) Pedersen

753-911

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Telex: 043 5259

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TO : HIGHWOOD RESOURCES LIMITED
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CERT. # : A8516029-004-
INVOICE # : 18516029
DATE : 14-JUL-85
P.O. # : NONE
DEAD HORSE

ATTN: D. TRUEMAN & J. PEDERSON

Sample description	Prep code	Be ppm	Ce ppm	NAA Y ppm	(XRF)			
49759	205	6.0	40	39	--	--	--	--
49761	205	4.5	34	<20	--	--	--	--
49762	205	5.0	35	30	--	--	--	--

Certified by *Hart Bickler*



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Phone: (604) 984-0221
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CERTIFICATE OF ANALYSIS

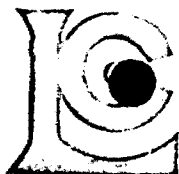
TO : HIGHWOOD RESOURCES LIMITED
ATTN: G. THOMAS
1660, 540 - 5TH AVE. S.W.
CALGARY, ALBERTA
T2P 0M2

CERT. # : A8516029-003-
INVOICE # : I8516029
DATE : 14-JUL-85
P.O. # : NONE
DEAD HORSE

ATTN: D. TRUEMAN & J. PEDERSON

Sample description	Prep code	Be ppm	Ce ppm	NAA Y ppm	(XRF) ppm			
46948	205	1.5	825	568	--	--	--	--
46949	205	4.0	880	889	--	--	--	--
46962	205	3.5	390	84	--	--	--	--
46963	205	2.5	46	39	--	--	--	--
46980	205	1.0	31	<20	--	--	--	--
46981	205	0.5	35	<20	--	--	--	--
49501	205	2.5	690	461	--	--	--	--
49502	205	2.0	60	73	--	--	--	--
49503	205	1.5	705	578	--	--	--	--
49504	205	1.0	930	171	--	--	--	--
49505	205	6.0	88	<20	--	--	--	--
49506	205	3.0	41	<20	--	--	--	--
49507	205	4.5	50	27	--	--	--	--
49508	205	2.5	1200	641	--	--	--	--
49509	205	1.0	193	158	--	--	--	--
49510	205	1.0	820	379	--	--	--	--
49511	205	2.5	48	53	--	--	--	--
49512	205	4.0	65	29	--	--	--	--
49513	205	6.0	307	78	--	--	--	--
49520	205	5.0	94	39	--	--	--	--
49521	205	2.0	660	697	--	--	--	--
49522	205	5.5	44	29	--	--	--	--
49523	205	7.5	45	20	--	--	--	--
49623	205	3.0	37	27	--	--	--	--
49624	205	5.0	49	26	--	--	--	--
49625	205	5.5	42	28	--	--	--	--
49632	205	4.0	40	<20	--	--	--	--
49639	205	5.0	66	47	--	--	--	--
49640	205	4.5	13	37	--	--	--	--
49694	205	3.0	9	35	--	--	--	--
49695	205	3.0	27	105	--	--	--	--
49702	205	4.5	40	32	--	--	--	--
49706	205	3.5	180	54	--	--	--	--
49708	205	4.5	46	35	--	--	--	--
49721	205	3.0	59	48	--	--	--	--
49722	205	4.5	60	102	--	--	--	--
49726	205	3.0	27	65	--	--	--	--
49744	205	4.0	21	30	--	--	--	--
49756	205	6.5	55	60	--	--	--	--
49758	205	5.0	36	36	--	--	--	--

Certified by *Hans Buehler*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brookbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Telex: 043 52597

CERTIFICATE OF ANALYSIS

TO : HIGHWOOD RESOURCES LIMITED
ATTN: G. THOMAS
1660, 540 - 5TH AVE. S.W.
CALGARY, ALBERTA
T2P 0M2

CERT. # : A8516029-002-
INVOICE # : 18516029
DATE : 14-JUL-85
P.O. # : NONE
DEAD HORSE

ATTN: D. TRUEMAN & J. PEDERSON

Sample description	Prep code	Be ppm	Co ppm	NAA Y ppm	(XRF)			
46908	205	4.0	353	147	--	--	--	--
46909	205	3.5	304	40	--	--	--	--
46910	205	2.0	530	56	--	--	--	--
46911	205	1.0	290	166	--	--	--	--
46912	205	2.0	120	24	--	--	--	--
46913	205	3.5	157	54	--	--	--	--
46914	205	2.5	35	<20	--	--	--	--
46915	205	2.0	42	<20	--	--	--	--
46916	205	2.5	47	<20	--	--	--	--
46917	205	2.5	48	34	--	--	--	--
46918	205	2.0	43	<20	--	--	--	--
46919	205	2.5	40	21	--	--	--	--
46920	205	4.0	76	38	--	--	--	--
46921	205	2.5	485	165	--	--	--	--
46922	205	1.5	465	248	--	--	--	--
46923	205	4.5	500	98	--	--	--	--
46924	205	6.5	29	46	--	--	--	--
46925	205	2.5	392	231	--	--	--	--
46926	205	6.0	295	99	--	--	--	--
46927	205	2.0	1385	780	--	--	--	--
46928	205	10.0	96	66	--	--	--	--
46929	205	5.5	79	43	--	--	--	--
46930	205	6.5	25	<20	--	--	--	--
46931	205	6.0	67	55	--	--	--	--
46932	205	5.5	30	58	--	--	--	--
46933	205	2.0	81	45	--	--	--	--
46934	205	10.5	96	113	--	--	--	--
46935	205	8.0	70	29	--	--	--	--
46936	205	3.0	37	29	--	--	--	--
46937	205	4.0	309	37	--	--	--	--
46938	205	1.0	910	355	--	--	--	--
46939	205	5.0	120	35	--	--	--	--
46940	205	2.0	1905	137	--	--	--	--
46941	205	5.0	670	56	--	--	--	--
46942	205	1.5	690	655	--	--	--	--
46943	205	2.0	204	53	--	--	--	--
46944	205	4.0	510	165	--	--	--	--
46945	205	5.0	183	36	--	--	--	--
46946	205	1.2	269	77	--	--	--	--
46947	205	2.0	890	671	--	--	--	--

Certified by *Hans Bisher*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave
North Vancouver, B.C.
Canada V7J 1P1
Phone: (604) 984-0221
Telex: 043 52897

CERTIFICATE OF ANALYSIS

TO : HIGHWOOD RESOURCES LIMITED
ATTN: G. THOMAS
1660, 540 - 5TH AVE. S.W.
CALGARY, ALBERTA
T2P 0M2

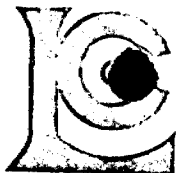
CERT. # : A6516029-001-A
INVOICE # : 18516029
DATE : 14-OCT-85
P.O. # : NONE
DEAD HORSE

ATTN: D. TRUEMAN & J. PEDERSON

Sample description	Prep code	Be ppm	Ce ppm	NAA Y ppm	(XRF) ppm			
46717	205	1.5	7	<20	--	--	--	--
46721	205	2.5	6	<20	--	--	--	--
46739	205	4.0	156	24	--	--	--	--
46740	205	3.0	168	40	--	--	--	--
46741	205	3.0	175	74	--	--	--	--
46742	205	5.5	155	73	--	--	--	--
46743	205	5.0	243	67	--	--	--	--
46744	205	4.0	128	39	--	--	--	--
46745	205	3.5	211	45	--	--	--	--
46746	205	4.0	24	47	--	--	--	--
46747	205	8.0	141	92	--	--	--	--
46748	205	4.0	16	47	--	--	--	--
46749	205	5.0	17	46	--	--	--	--
46750	205	3.5	7	35	--	--	--	--
46752	205	4.5	133	25	--	--	--	--
46753	205	3.5	40	24	--	--	--	--
46754	205	2.0	72	20	--	--	--	--
46755	205	2.5	60	21	--	--	--	--
46757	205	3.0	31	46	--	--	--	--
46766	205	10.0	12	38	--	--	--	--
46781	205	MISSING	MISSING	MISSING	--	--	--	--
46828	205	4.0	40	20	--	--	--	--
46829	205	5.5	38	<20	--	--	--	--
46830	205	5.0	26	<20	--	--	--	--
46831	205	4.5	29	45	--	--	--	--
46832	205	4.0	23	25	--	--	--	--
46839	205	4.5	41	<20	--	--	--	--
46840	205	4.0	32	<20	--	--	--	--
46841	205	3.5	26	<20	--	--	--	--
46842	205	4.0	15	31	--	--	--	--
46844	205	2.5	17	27	--	--	--	--
46846	205	4.0	50	35	--	--	--	--
46848	205	4.5	38	26	--	--	--	--
46849	205	5.0	17	<20	--	--	--	--
46902	205	2.5	1280	514	--	--	--	--
46903	205	3.5	297	155	--	--	--	--
46904	205	4.0	325	235	--	--	--	--
46905	205	3.0	1530	866	--	--	--	--
46906	205	1.0	1455	988	--	--	--	--
46907	205	2.0	1305	1111	--	--	--	--

Hart Buchler

Certified by



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984 0221
Telex: 043 52597

CERTIFICATE OF ANALYSIS

TO : HIGHWOOD RESOURCES LIMITED
ATTN: G. THOMAS
400 - 805 8TH AVENUE S.W.
CALGARY, ALBERTA
T2P 1H7

CERT. # : A8512875-001-
INVOICE # : 18512875
DATE : 26-JUN-85
P.O. # : NONE
D. HORSE

ATTN: D. TRUEMAN CC: J.C. PEDERSEN

Sample description	Prep code	Bc ppm	Ce NAA Y ppm	(XRF) ppm			
46722	205	>1000.0	DELAYED	145	--	--	--
46723	205	38.0	DELAYED	155	--	--	--
46724	205	9.0	DELAYED	<20	--	--	--
46725	205	3.5	DELAYED	<20	--	--	--
46726	205	2.7	DELAYED	24	--	--	--
46727	205	2.3	DELAYED	<20	--	--	--
46728	205	1.7	DELAYED	<20	--	--	--
46729	205	1.1	DELAYED	<20	--	--	--
46730	205	3.8	DELAYED	<20	--	--	--
46731	205	>1000.0	DELAYED	175	--	--	--
46732	205	11.0	DELAYED	<20	--	--	--
46733	205	270.0	DELAYED	88	--	--	--
46734	205	11.0	DELAYED	271	--	--	--
46735	205	4.6	DELAYED	83	--	--	--
46736	205	3.2	DELAYED	108	--	--	--
46737	205	3.6	DELAYED	67	--	--	--
46738	205	1.9	DELAYED	<20	--	--	--

Certified by Hart Buchler

#579
21



42015NE0029 2.8901 WALSH

900

Opin: 813689 W8504 60579 Mining Act

Type of Survey(s) GEOLOGICAL / GEOCHEMICAL	Township or Area WALSH TWP (G-636)
Claim Holder(s) OMER BELISLE / JOHN TERNOWESKY	Prospector's Licence No. E28294 / E26280
Address 688 LESLIE AVE. THUNDER BAY / 132 ROBINSON DRIVE THUNDER BAY	
Survey Company NORTHWEST GEOPHYSICS	Date of Survey (from & to) 6 85 23 6 85 Day Mo. Yr. Day Mo. Yr.
Total Miles of line Cut 9 MILES	
Name and Address of Author (of Geo-Technical report)	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	40
	Geochemical	20
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Geological	24
	Geochemical	23
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
TB	813689	73 60		815727	73 60
	813690	73		815728	73
	813691	73		830330	73
	813692	73		830331	73
	813693	73		830332	73
	815547	73		830333	73
	815548	73		830334	73
	815549	73			
	815712	73			
	815713	73			
	815714	73			
	815715	73			
	815716	73			
	815717	73			
	815718	73			
	815719	73			
	815720	73			
	815721	73			
	815722	73			
	815723	73			
	815724	73			
	815725	73			
	815726	73			

RECEIVED
MINING LANDS SECTION

THUNDER BAY
MINING DIVISION
RECEIVED
DEC 10 1985
PM 2:22/15/85

Expenditures (excludes power stripping)

Type of Work Performed GEOLOGICAL, GEOCHEMICAL
Performed on Claim(s) 815712; 815713; 815714; 815715; 815716; 815717; 815718; 815719; 815723; 813693; 815547
Calculation of Expenditure Days Credits
Total Expenditures \$ 33,028.61 ÷ Total Days Credits 15 = 2202

Total number of mining claims covered by this report of work. **30**

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only	
Total Days Cr. Recorded 3600	Date Recorded December 19/85
Date Approved as Recorded 16 DEC '85	Mining Recorder Kudrey M. Langen
	Branch Director

Date 16 Dec / 85	Recorded Holder or Agent (Signature) [Signature]
----------------------------	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying ROEMAN, D.L. 1660-540, 5TH AVE SW CRUGGERY, ALTA. T2P0M2	Date Certified 16 DEC '85
	Certified by (Signature) [Signature]

May 6, 1986

Your File: 579
Our File: 2.8901

Mining Recorder
Ministry of Northern Development and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Notice of Intent dated April 15, 1986
Geological, Geochemical and Data for
Assaying on Mining Claims TB 813689,
et al, in Walsh Township

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Omer Bellisle
688 Leslie Avenue
Thunder Bay, Ontario
P7A 1Z8

Mr. G.H. Ferguson
Mining & Claims Comm.
Toronto, Ontario

Resident Geologist
Thunder Bay, Ontario
P7A 6H5

D.L. Trueman
Suite 1560
540 5th Avenue SW
Calgary, Alberta T2P 0M2

Encl.



Recorded Holder
OMER BELISLE/JOHN TERNOWSKY

Township or Area
WALSH TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>\$2867.00 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS:</p> <p>TB 813693 815547 815712 to 22 inclusive</p> <p>191 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
OMER BELISLE/JOHN TERNOWSKY

Township or Area
WALSH TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ 30 _____ days</p> <p>Geochemical _____ 15 _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>TB 813693 815547 815712 to 22 inclusive</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

TB 813689 to 92 inclusive
815548-49
815723 to 28 inclusive
830330 to 34 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

April 30/86

Ministry of
Northern Development
and Mines

April 15, 1986

Your File: 579
Our File: 2.8901

Mining Recorder
Ministry of Northern Development and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

DK-DK/mc

Encl.

cc: Omer Belisle
688 Leslie Avenue
Thunder Bay, Ontario
P7A 1Z8

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

John Ternowesky
132 Robinson Drive
Thunder Bay, Ontario
P7A 6G5

D.L. Trueman
Suite 1660
540 5th Avenue SW
Calgary, Alberta T2P 0M2



Ontario

Ministry of
Northern Development
and Mines

Notice of Intent
for Technical Reports

April 15, 1986

2.8901/579

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

March 20, 1986

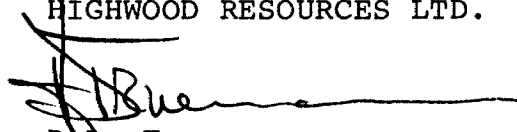
J.C. Smith
Mining Lands Section
Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sirs:

Enclosed find copies of cancelled cheques and certificates of analysis to complete our submission of work in Walsh Township, Re: File: 2.8901.

Yours very truly,

HIGHWOOD RESOURCES LTD.



D.L. Trueman
Vice President of Exploration

DLT/dlb

Enclosure

RECEIVED

MAR 25 1986

MINING LANDS SECTION

DETAIL TRIAL BALANCE
HIGHWOOD RESOURCES LTD.
<< AS OF 01/31/86 >>

ACCT NO	REFERENCE NO. / DESCRIPTION	DATE	DEBITS	CREDITS	BALANCE
0300.19	DEADHORSE CREEK				5028.75
G/L CM526	JACKFISH LAKE	05/31/85	100.00		
G/L CM527	C PEDERSON	05/31/85	2000.00		
G/L CM554	WHITESIDE	06/30/85	279.85		
G/L CM567	JACKFISH LAKE	06/30/85	884.90		
G/L CM576	C PEDERSON	06/30/85	2082.93		
G/L CM577	L ST JORRE	06/30/85	2807.40		
G/L CM578	B WHITTE	06/30/85	2201.90		
G/L CM579	R VANDERCAMP	06/30/85	2552.60		
G/L CM583	RECEIVER GEN	06/30/85	3000.00		
G/L J21	CORRECT POSTING	06/30/85	1625.00		
G/L CM584	ROYAL BANK VISA	07/31/85	2800.00		
G/L CM588	WHITESIDE WORLD	07/31/85	261.60		
G/L CM595	NORTHWEST GEOPHYSIC	07/31/85	4000.00		
G/L M597	JACKFISH LK.COTTAGE	07/31/85	1077.02		
G/L CM600	J.C. PEDERSEN	07/31/85	1403.41		
G/L C5306	JET MINING EXPLOR.	10/30/85	3000.00		
G/L CM820	C PEDERSON	10/30/85	85.00		
G/L J108	CHEMEX CORRECT C800	12/01/85	2867.00		
	**** ENDING BALANCE ****		33028.61	0.00	38057.36

RECEIVED

MAR 25 1986

MINING LANDS SECTION

March 7, 1986

File: 2.8901

Omer Belisle
688 Leslie Avenue
Thunder Bay, Ontario
P7A 1Z8

Dear Sir:

RE: Geological and Geochemical Survey and
Data for Assaying submitted on Mining
Claims TB 813689, et al, in Walsh Township

In order to complete your submission, please provide:

1. signed receipts or cancelled cheques as verification of the \$33,028.61 assay costs. Signed invoices are not considered adequate proof of expenditures.
2. the certificates of analyses for the above-mentioned assay.

When returning this material, please quote file 2.8901.

For further information, please contact Dennis Kinvig at
(416) 965-4888.

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1M3

Telephone: (416)965-4888

DK/mc

cc: John Ternowesky
132 Robinson Drive
Thunder Bay, Ontario
P7A 6G5

D.L. Trueman
Suite 1660
540 5th Avenue SW
Calgary, Alberta T2P 0M2

Mining Recorder
Thunder Bay, Ontario
File: #579

Encl.

February 11, 1986

Report of Work #579

Omer Belisle
688 Leslie Avenue
Thunder Bay, Ontario
P7A 1Z8

Dear Sir:

RE: Mining Claims TB 813689,
et al, in Walsh Township

I have not received the reports and maps (in duplicate) for Geological and Geochemical Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on December 19, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on February 17, 1986.

If the material is not submitted to this office by February 17, 1986 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt, Director
Land Management Branch

Mining Lands Section
Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

AB/mc
cc: Mining Recorder
Thunder Bay, Ontario

John Ternowesky
132 Robinson Drive
Thunder Bay, Ontario
P7A 6G5

D.L. Trueman
Suite 1660
540 5th Avenue SW
Calgary, Alberta T2P 0M2

Encl.

014 YYC 07147011 EXPRESS
 Shipper's name and address
 Nom et adresse de l'expéditeur

HIGHWOOD RESOURCES LTD
 60 - 540 5TH AVE S.W.
 CALGARY ALTA T2P 0M2

NOT NEGOTIABLE
 AIR WAYBILL (AIR CONSIGNMENT NOTE)
 NON NEGOCIABLE
 LETTRE DE TRANSPORT AERIEN

ISSUED BY
 EMISE PAR
AIR CANADA
PLACE AIR CANADA MONTREAL CANADA

014
 07147011

Consignee's name and address
 Nom et adresse du destinataire

MR A BARR
 MINING LANDS SECTION
 WHITNEY BLOCK 6TH FLR
 TORONTO ONT

Consignee's account number
 N° de compte du destinataire
000000

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.
 Il est convenu que les marchandises décrites dans le présent document sont acceptées pour le transport en bon état apparent (sauf annotation contraire) et que le transport est SOUMIS AUX CONDITIONS DU CONTRAT QUI FIGURENT AU VERSO. L'ATTENTION DE L'EXPÉDITEUR EST ATTIRÉE SUR L'AVIS CONCERNANT LA LIMITATION DE RESPONSABILITÉ DU TRANSPORTEUR. L'expéditeur peut augmenter cette limitation de responsabilité en déclarant une valeur pour le transport plus élevée et en payant des frais supplémentaires s'il y a lieu.

Accounting Information
 Renseignements comptables
AI**

RECEIVED

FEB 17 1986

MINING LANDS SECTION

Currency Monnaie	Cgs code frais	Wt / Val Poids / val	Other Autre	Declared value for carriage Valeur déclarée au départ	Declared value for customs Valeur déclarée pour la douane
	PPD Col PPD Col	payé do payé do			
				NVD	NCV

Agent's IATA code
 Code IATA de l'agent

Account no.
 N° de compte

Airport of departure (address of first carrier) and requested routing
 Aéroport de départ (adresse du 1^{er} transporteur) et itinéraire demandé

CALGARY ALTA

To: A	Routing and destination - Itinéraire et destination	To: A	By: Par	To: A	By: Par
YYZ	AC				

Airport of destination
 Aéroport de destination

TORONTO YYZ ONT

Handling information
 Précisions sur le traitement de l'expédition

CI RK*QUEENS PARK

No of Pieces Nombre de colis RCP	Gross weight Poids brut	kg lb	Rate Class - Classif du tarif Commodity item no Référence de l'article	Chargeable weight Poids de taxation	Rate / Charge Tarif / Montant	Total	Nature and quantity of goods (incl. dimensions or volume) Nature et quantité des marchandises (avec dimensions ou volume)
1	3.0K/B			3.0/	17.50/	17.50/	PRINTED MATTER
OVERNIGHT / DU JOUR AU LENDEMAIN							
1	3.0K					17.50	

Prepaid - Port payé	Weight Charge - Taxation au poids	Collect - Port dû	Other Charges - Autres frais
	17.50		
Valuation charge - Taxation à la valeur			
Tax - Taxe			
Total other Charges Due Agent - Total des autres frais dus à l'agent			
Total other Charges Due Carrier - Total des autres frais dus au transporteur			
Total prepaid - Total port payé		Total collect - Total port dû	
17.50			
Currency Conversion Rates Taux de conversion monnaie	cc charges in Dest. Currency Port dû en monnaie du pays de destination		
For Carrier Use only Réservé au transporteur à destination	Charges at Destination - Frais à destination		Total collect Charges - Total dû

Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.
 L'expéditeur certifie que les indications portées sur le présent document sont exactes et que, dans la mesure où une partie quelconque de l'expédition contient des marchandises dangereuses, cette partie d'expédition est correctement désignée, bien préparée pour le transport aérien, conformément à la Réglementation pour le transport des marchandises dangereuses applicable.

Signature of Shipper or his Agent
 Signature de l'expéditeur ou de son agent

FEB 15, 1986 CALGARY ALTA

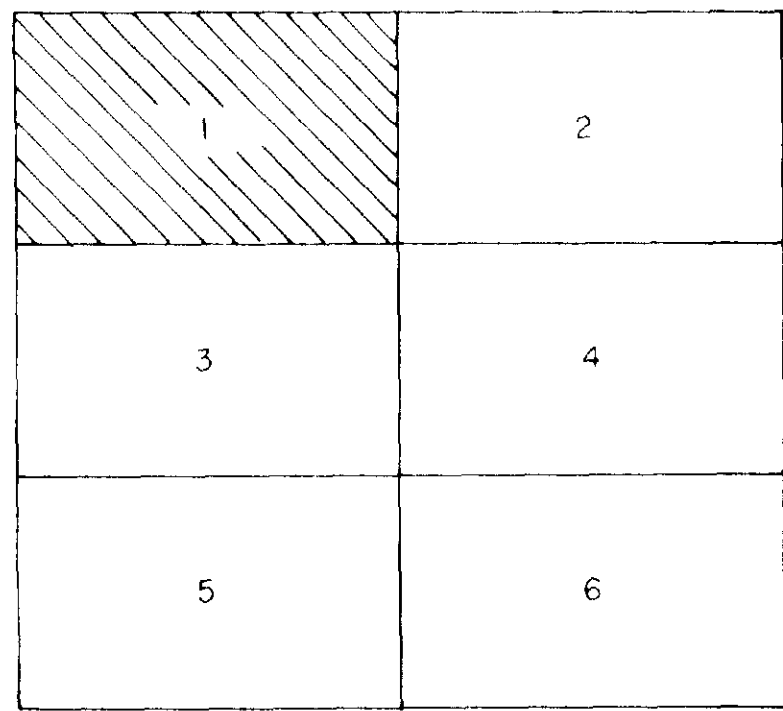
Executed on - Établie le (Date) At - A (Place) (Lieu)

15FEB86 21:20:40GMT ID
YYC 014-07

ORIGINAL 2 (FOR CONSIGNEE - DESTINATAIRE)
 XXXXXXXX

ACF294T (5 - 85)

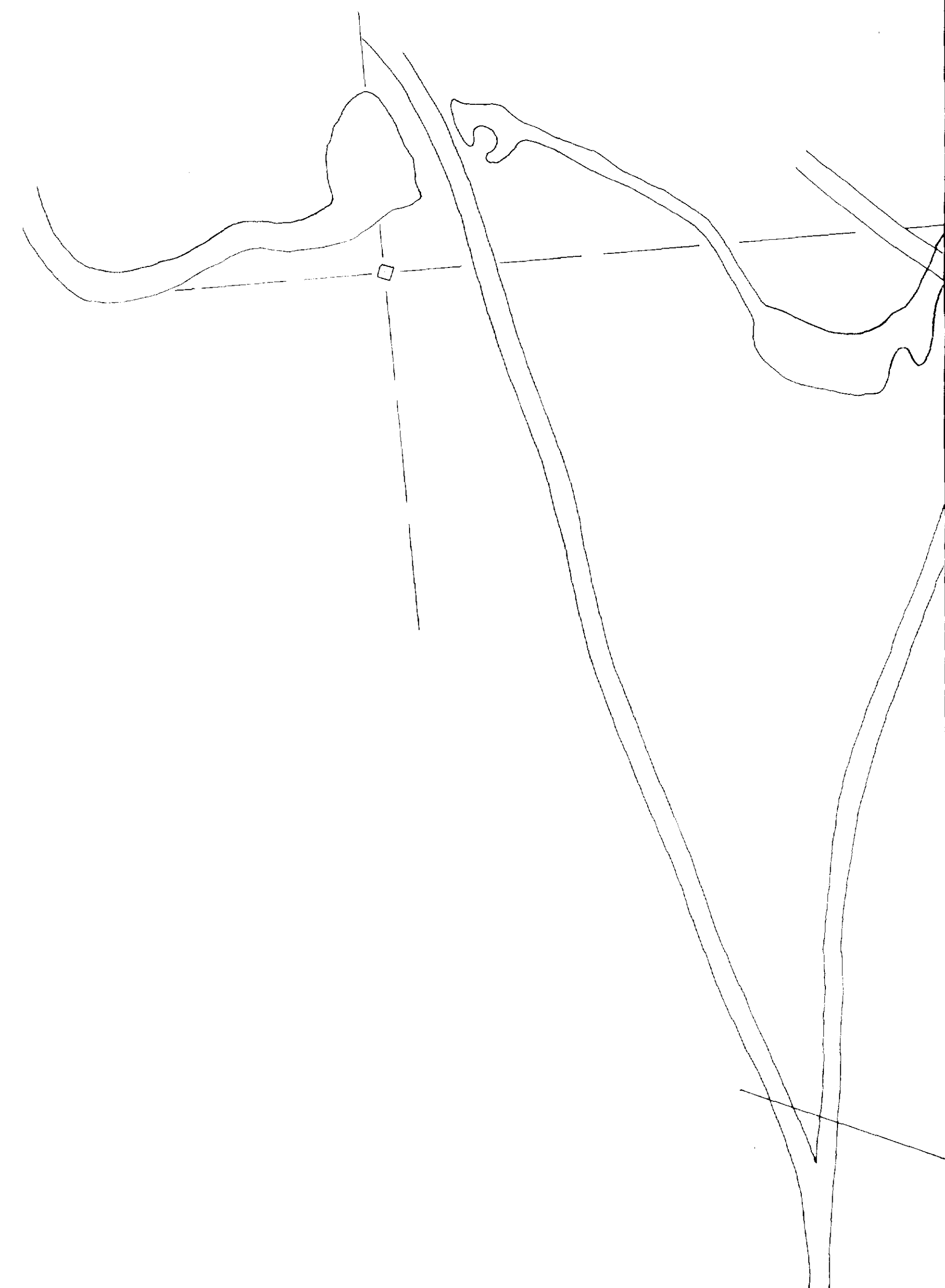
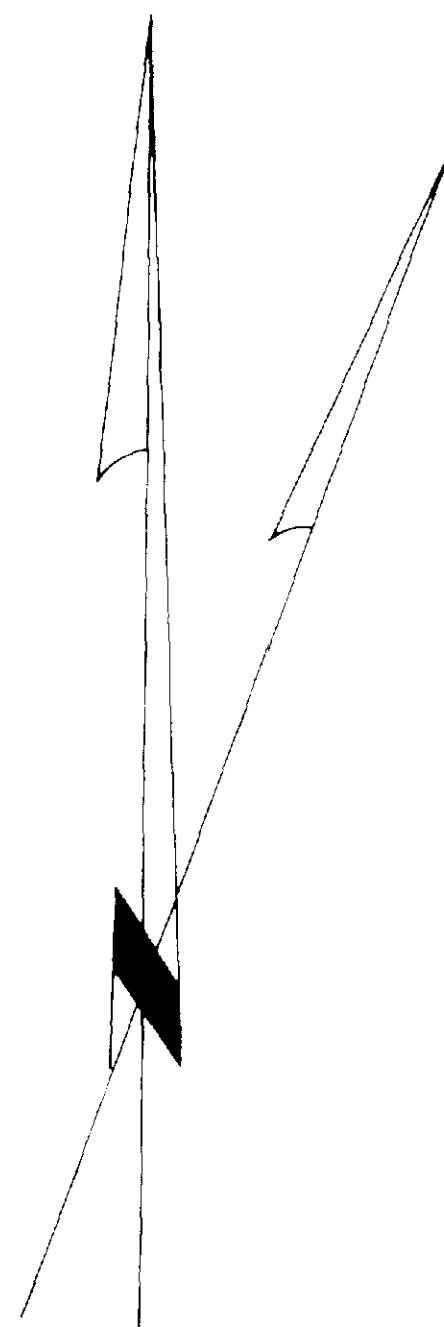
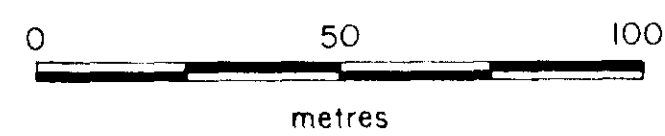
	<u>Seal.</u>	<u>Chem.</u>		<u>Seal.</u>	<u>Chem.</u>		<u>Seal.</u>	<u>Chem.</u>	
TB-813687	0	0		815716	✓	✓	815728	0	0
90	0	0		17	✓	✓	830330	0	0
91	0	0		18	✓	✓	31	0	0
92	0	0		19	✓	✓	32	0	0
813693	1/2	1/2		20	3/4	3/4	33	0	0
815547	3/4	3/4		21	1/2	3/4	830324	0	0
48	0	0		22	✓	✓			
49	0	0		23	0	0			
815712	1/2	1/2		24	0	0	(10% of the report states that 13 are in correct for.)		
13	1/2	1/2		25	0	0			
14	3/4	3/4		26	0	0			
815715	3/4	3/4		815727	0	0			
	1/4				1/4				
815715									
			D.K.						
$(20 \times 13) \div (13 + 10) = 14.44 \Rightarrow 15 \text{ days} + 30 \text{ days} = 45 \text{ days}$									



LEGEND

- 8 FELSITE
- 7 DIABASE
- 6 LAMPROPHYRE
- 5a DIATREME BRECCIA
- 5b wall rock w. breccia channels
- 5c mineralized shear zone
- 4 FELDSPAR PORPHYRY: SYENITE APLITE
- 3 SYENITE
- 2 METASEDIMENTS
- 1 META-ANDESITE

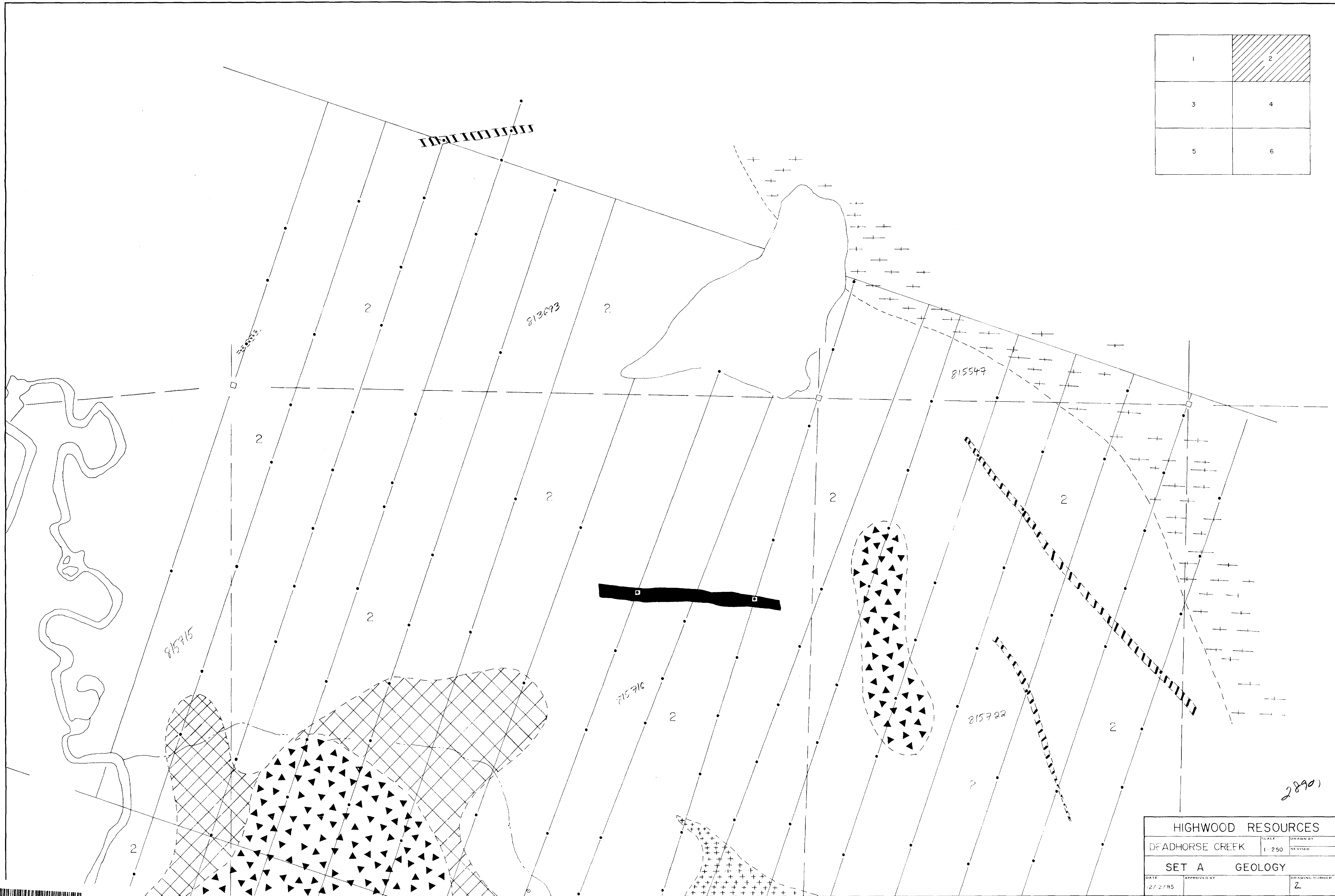
- Geological Boundary : defined, approximate
- Shear
- Area of Outcrop
- Cliff
- Stream
- Diamond Drill Hole
- Trench
- Claim Post
- Swamp



HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY	REVISED
LEGEND			
DATE 11/12/85	APPROVED BY	DRAWING NUMBER	

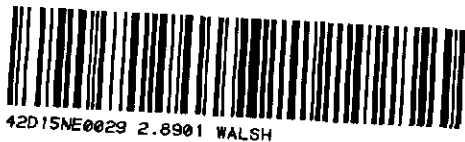
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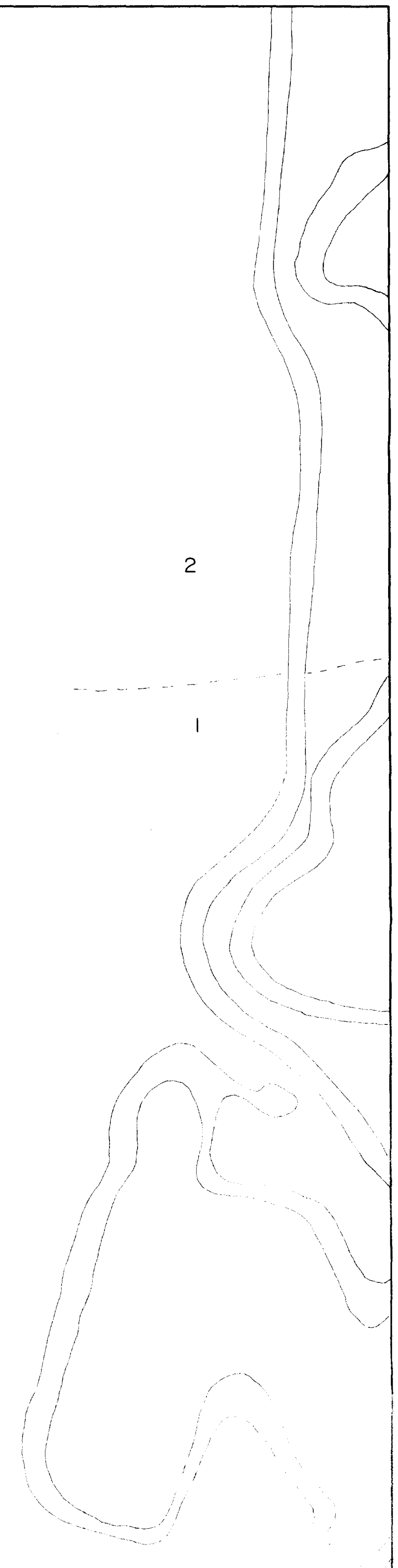
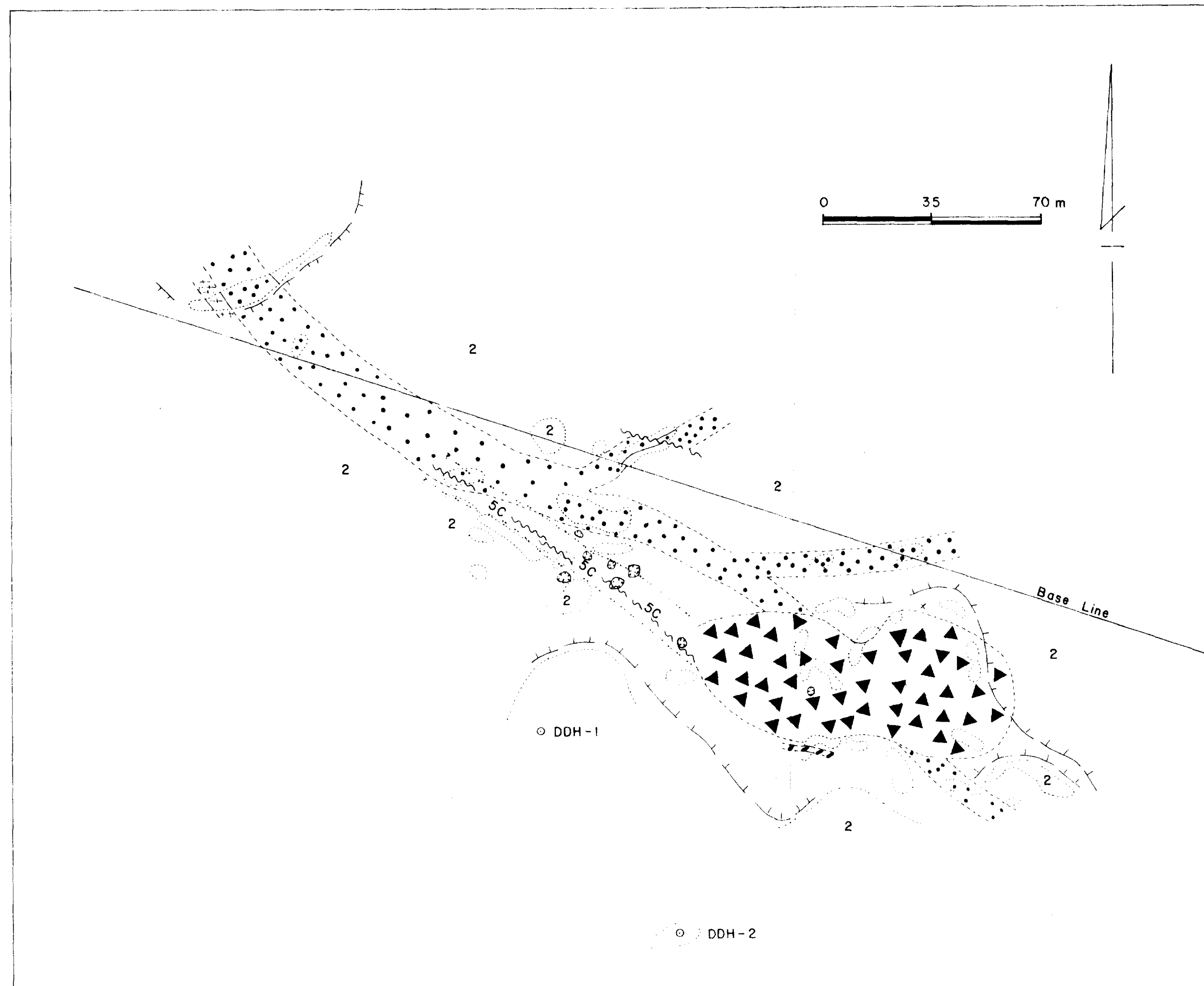
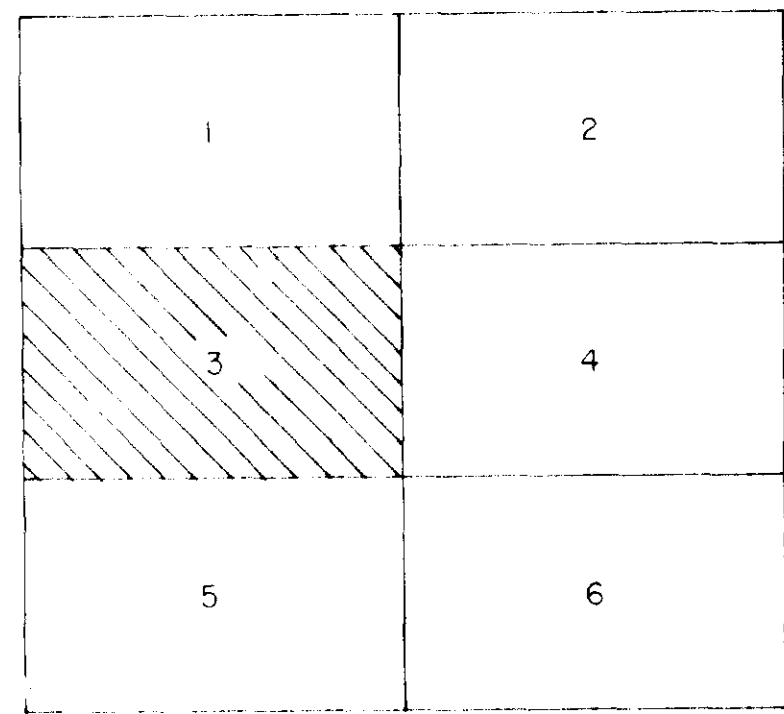
1	2
3	4
5	6



HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE	DRAWN BY	REVISION
	1:250		
SET A GEOLOGY			
DATE	APPROVED BY	DRAWING NUMBER	
2/2/95		Z	

2890



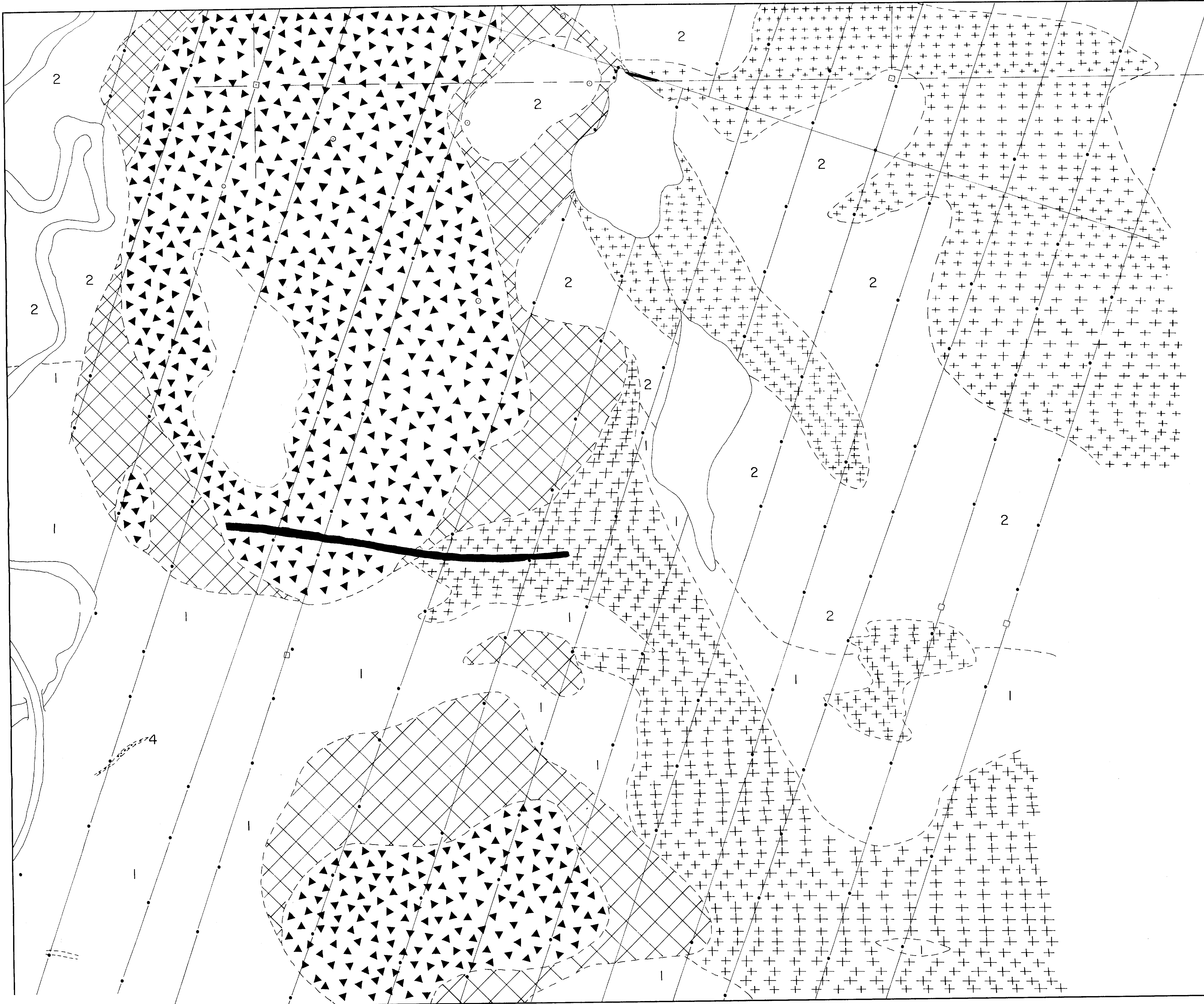


220

HIGHWOOD RESOURCES			
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SET A	GEOLOGY		
DATE	APPROVED BY		
12/12/85	289d		3

2

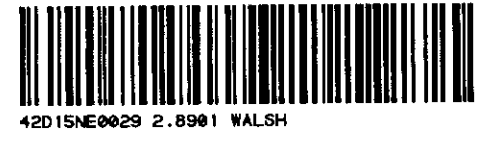
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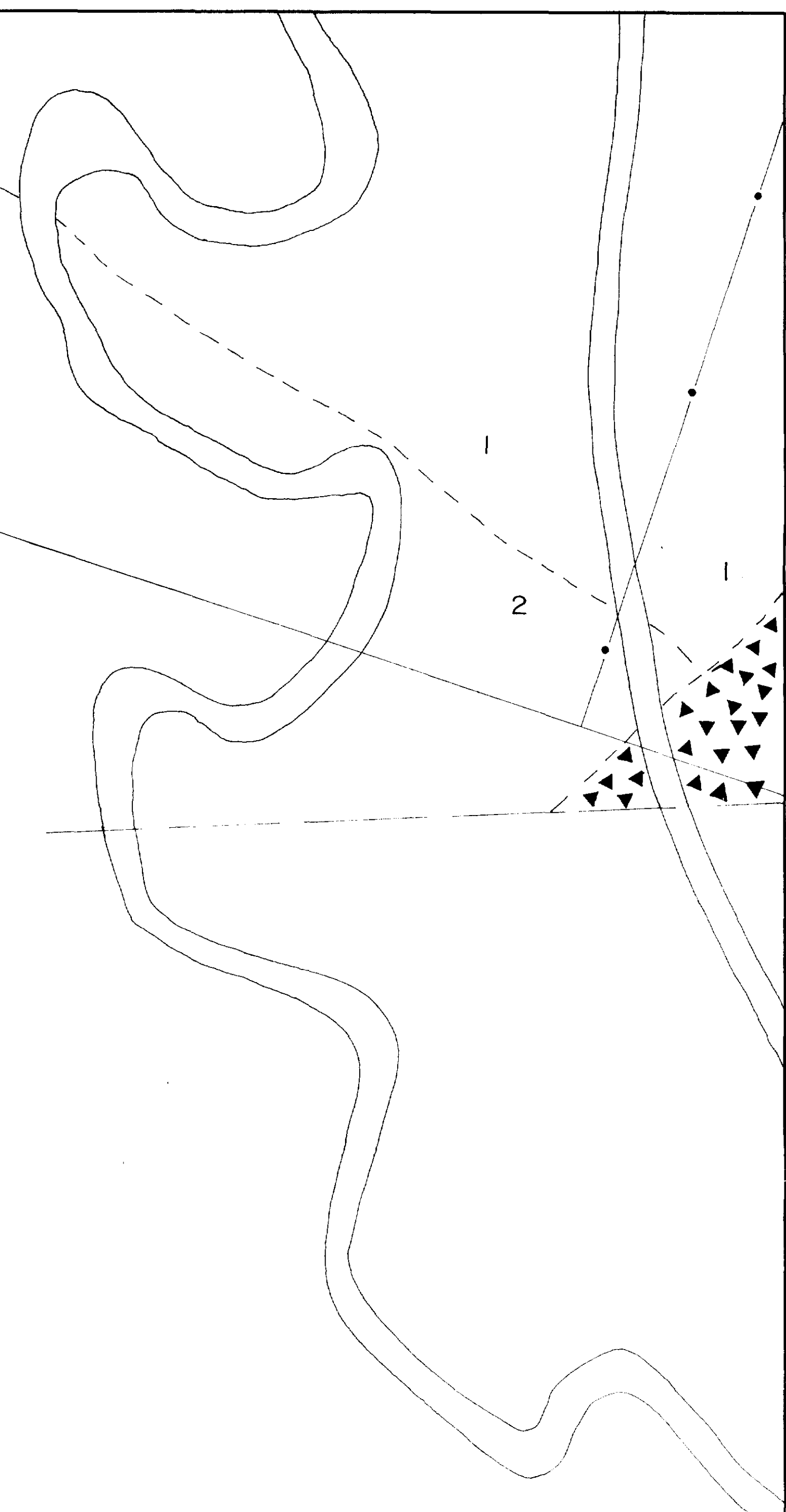
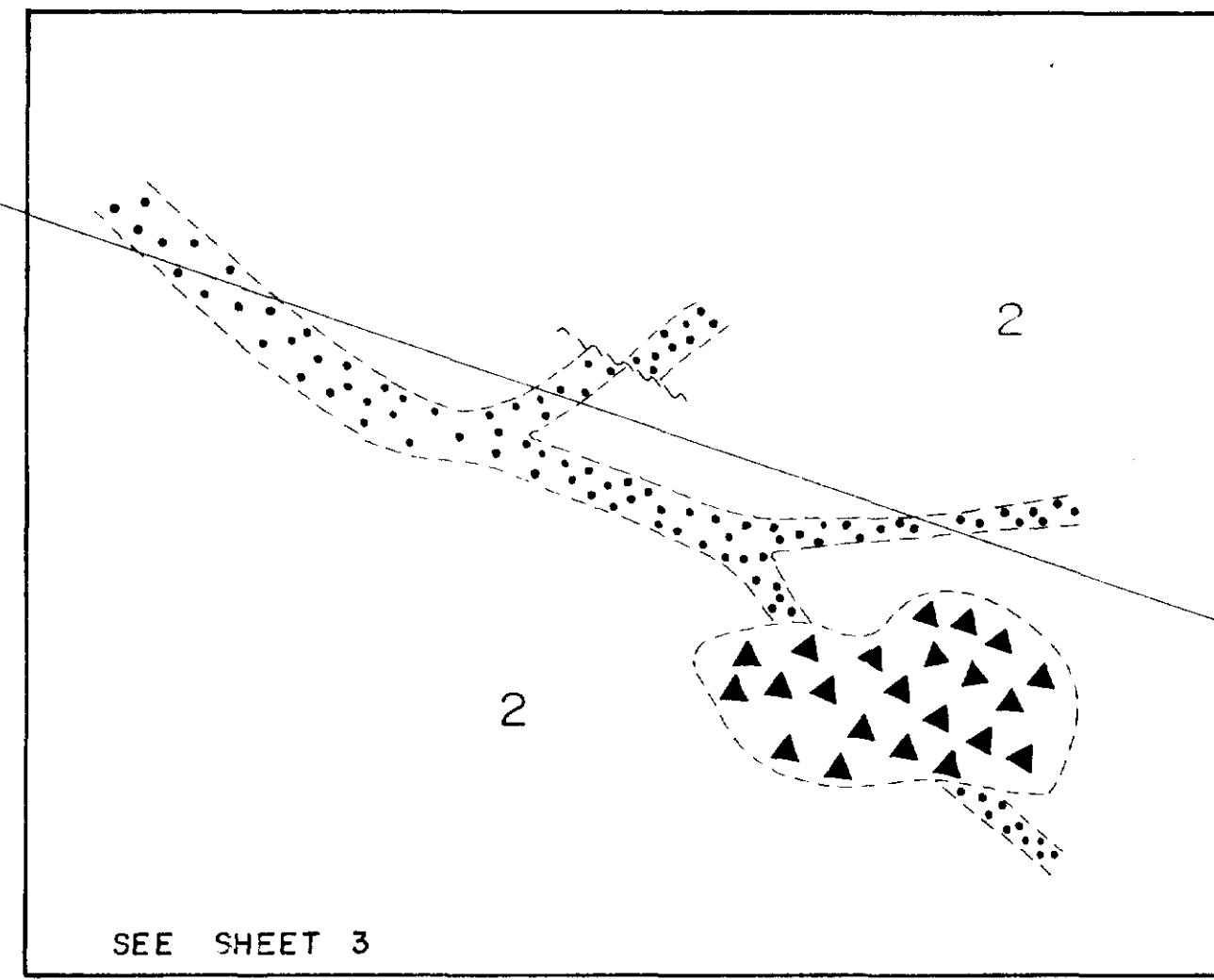
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HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY
SET A GECLOGY		REVISED
DATE 12/12/85	APPROVED BY	DRAWING NUMBER 4

28901

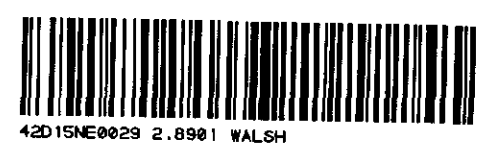


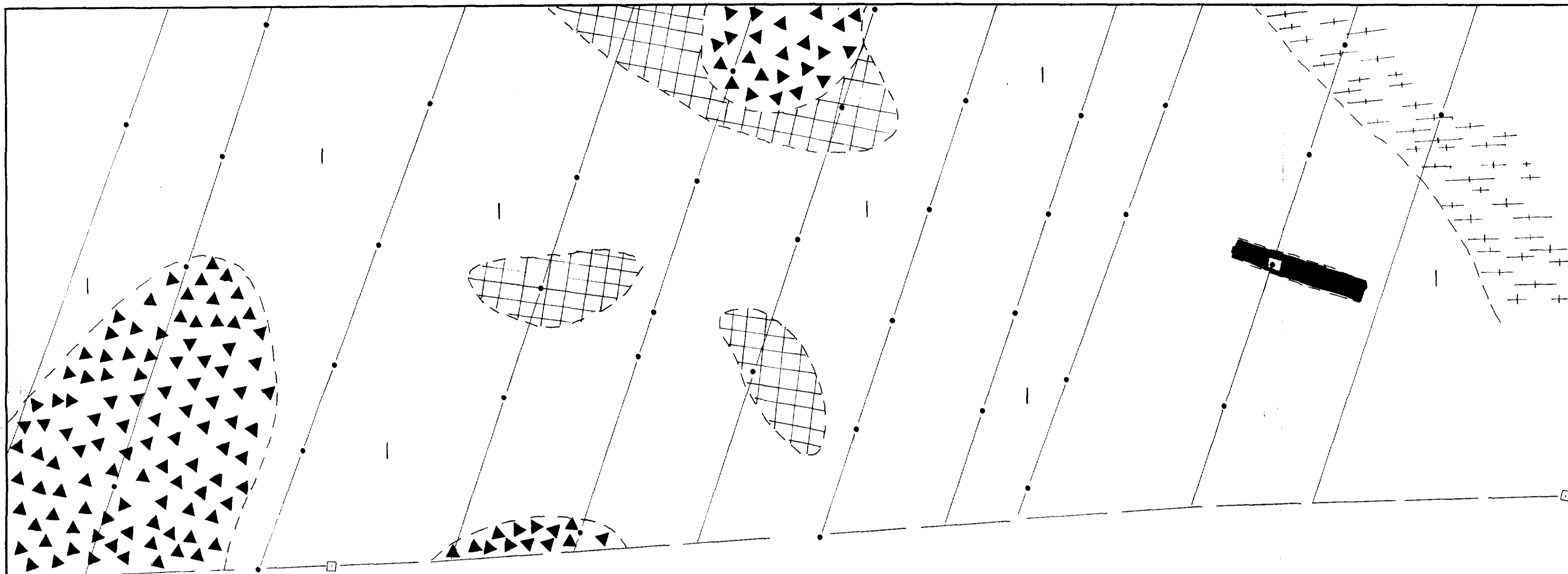
1	2
3	4
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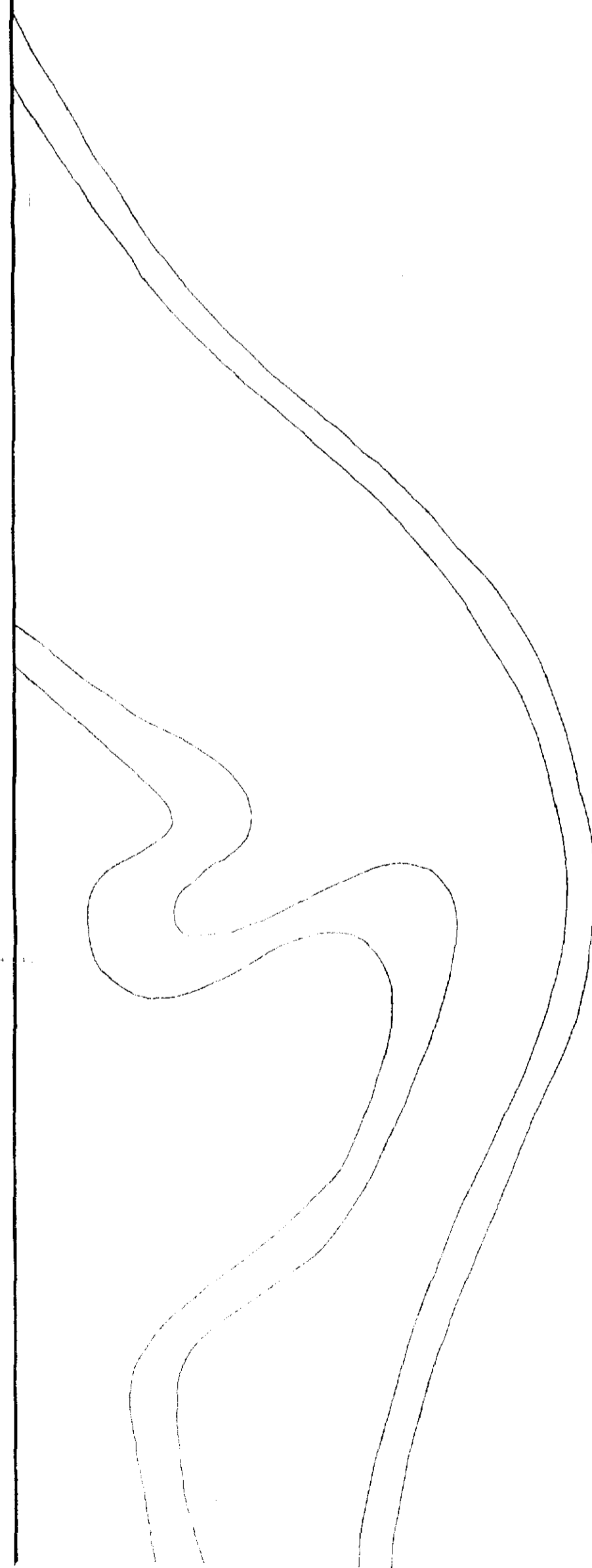
28901

HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY
SET A		GEOLOGY
DATE 12/12/85	APPROVED BY	DRAWING NUMBER 5





1	2
3	4
5	6



4215M629 2,6961 WALSH

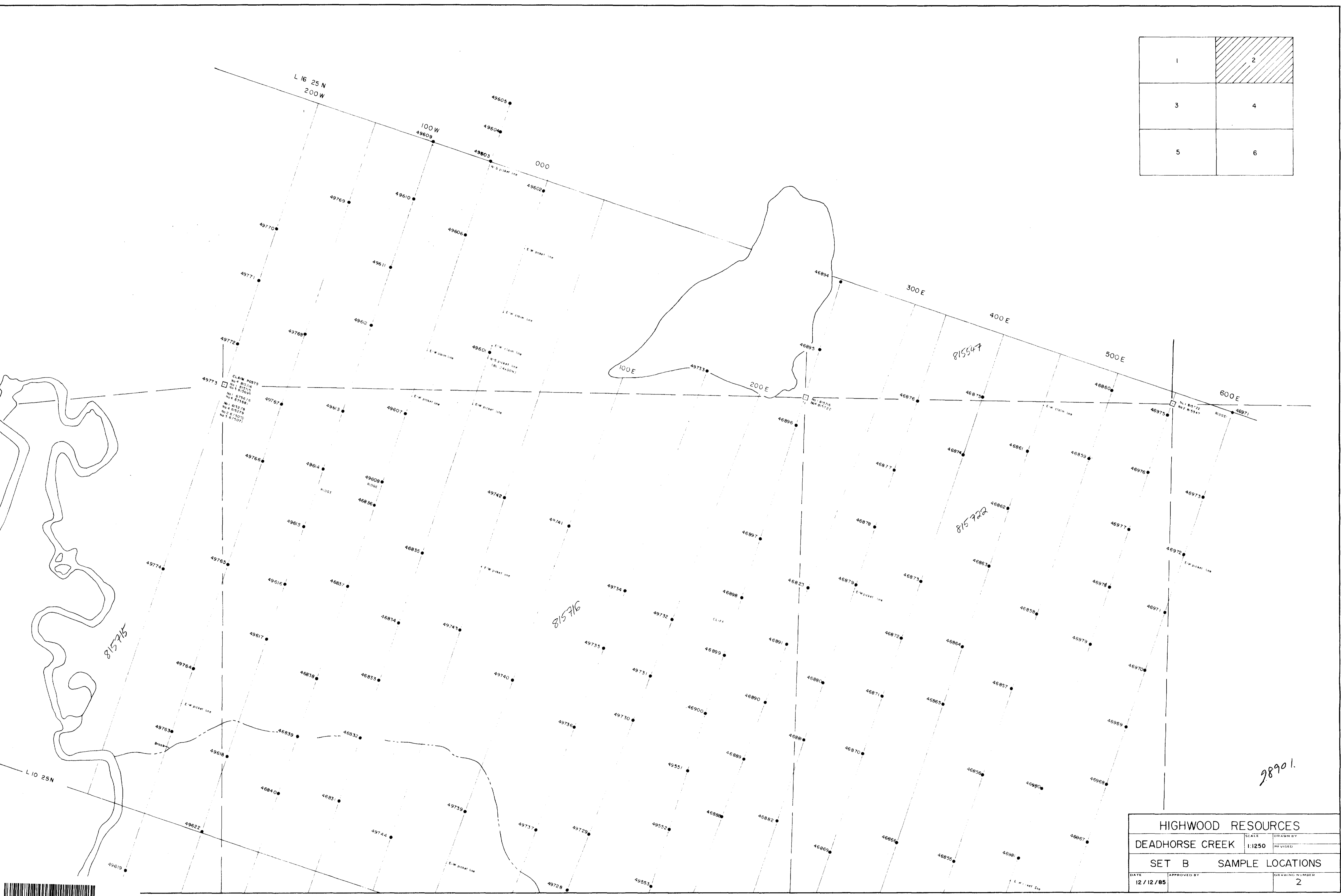
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28901

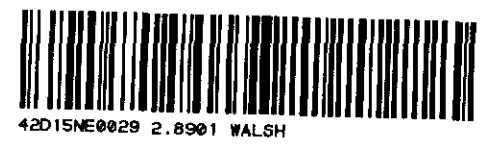
HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:250	REVISION
SET A		GEOLOGY
DATE 12/12/85	APPROVED BY	REVISION 6

MADE IN U.S.A.

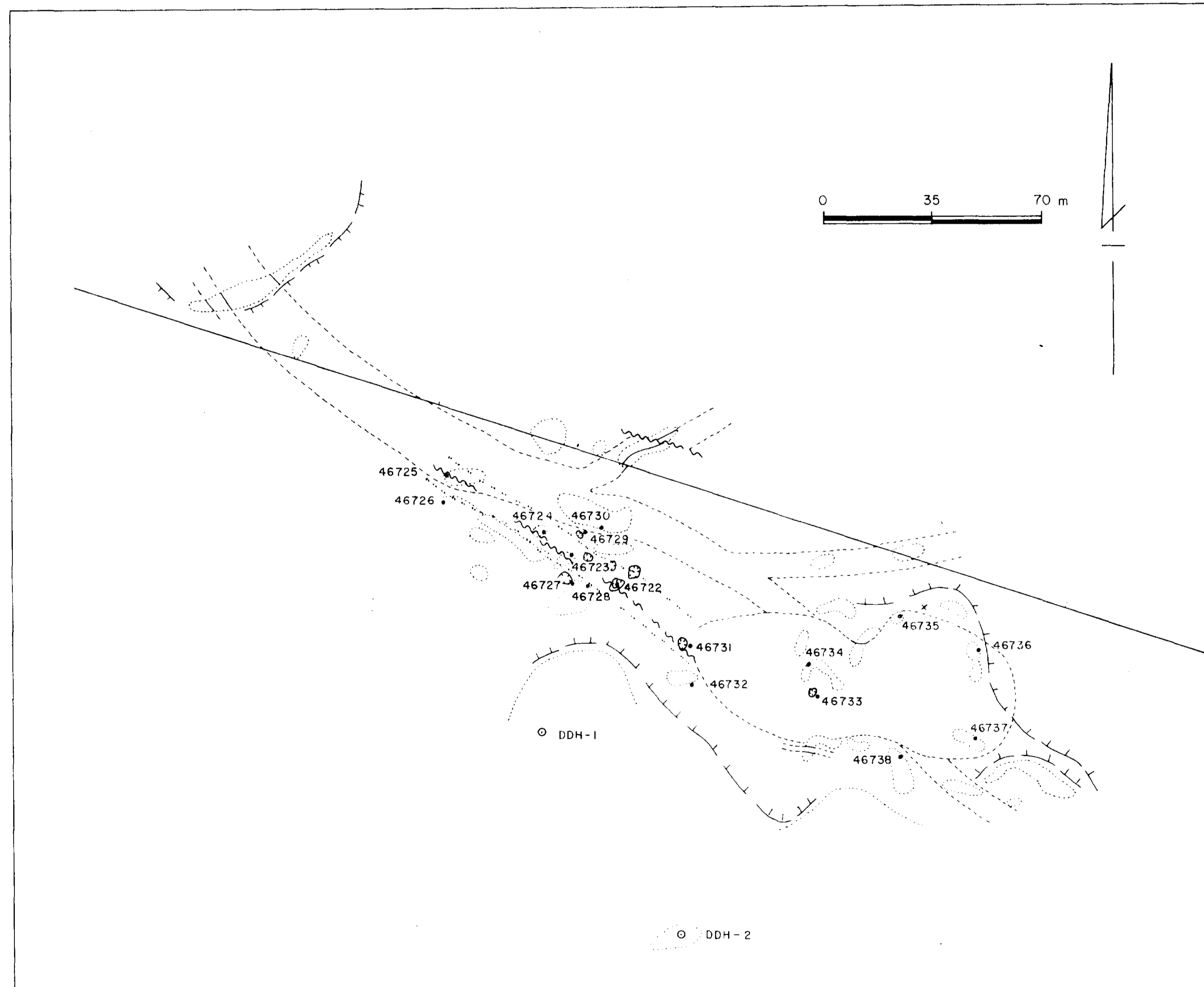
1	2
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HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY	REVISED
SET B		SAMPLE LOCATIONS	
DATE 12 / 12 / 85	APPROVED BY	DRAWING NUMBER 2	



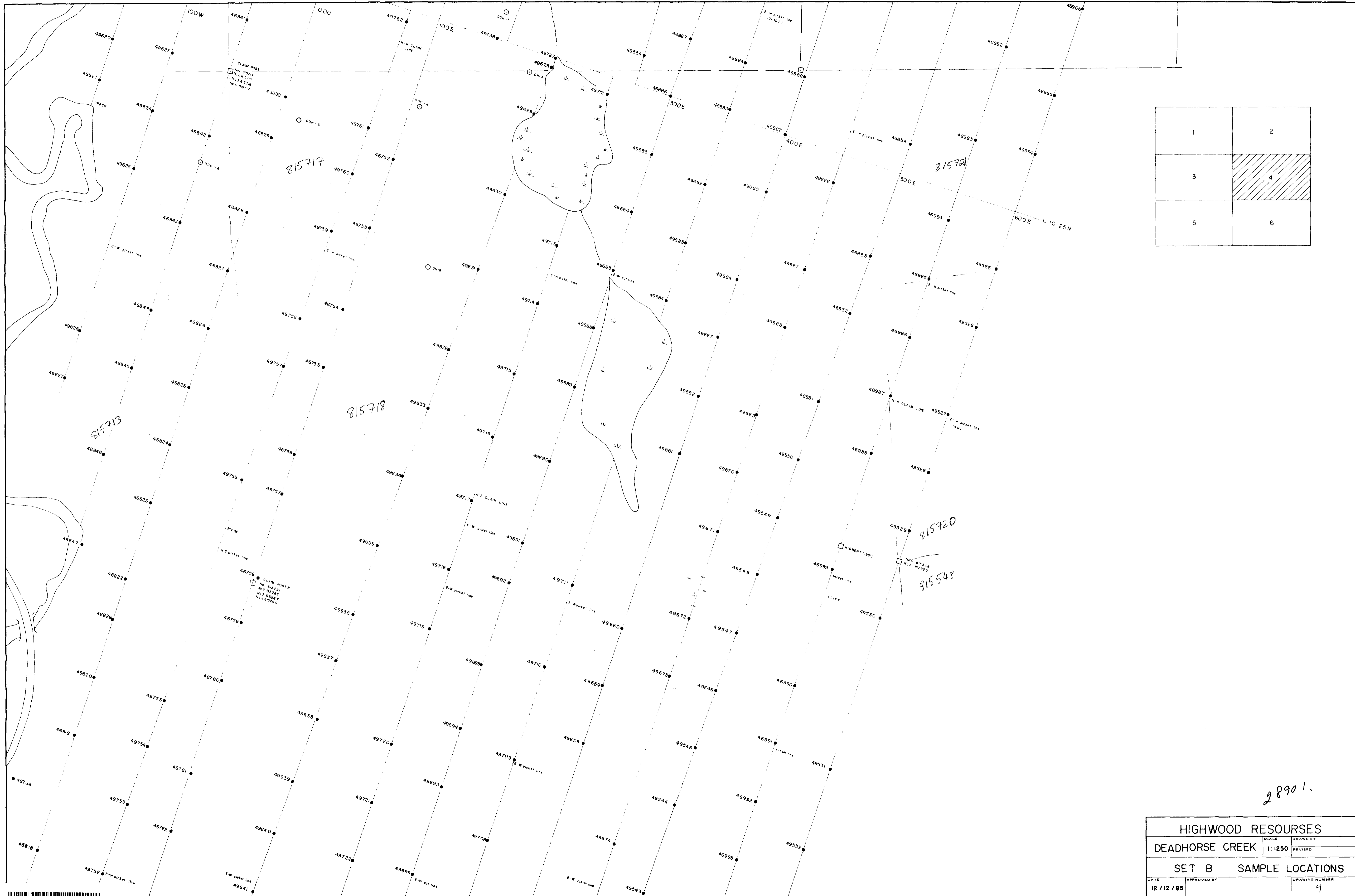
1	2
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HIGHWOOD RESOURCES			
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SET B		SAMPLE LOCATIONS	
DATE 12/12/85	APPROVED BY	DRAWING NUMBER 3	



28901

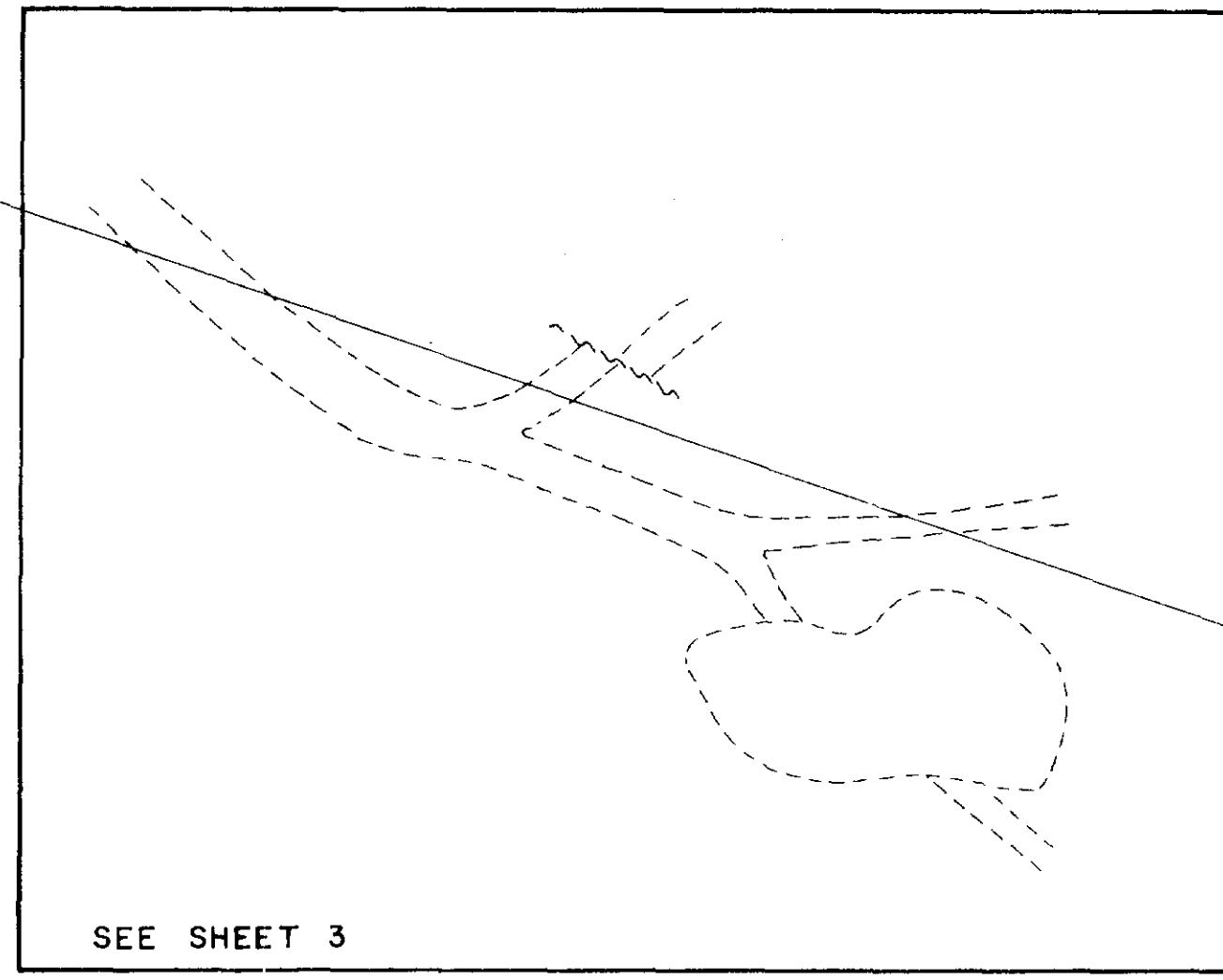


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HIGHWOOD RESOURCES			
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SET B		SAMPLE LOCATIONS	
DATE 12 / 12 / 85	APPROVED BY	DRAWING NUMBER 4	

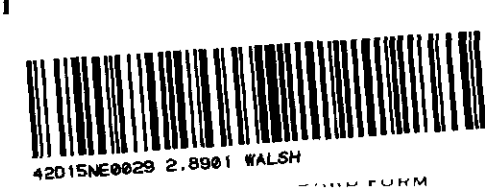
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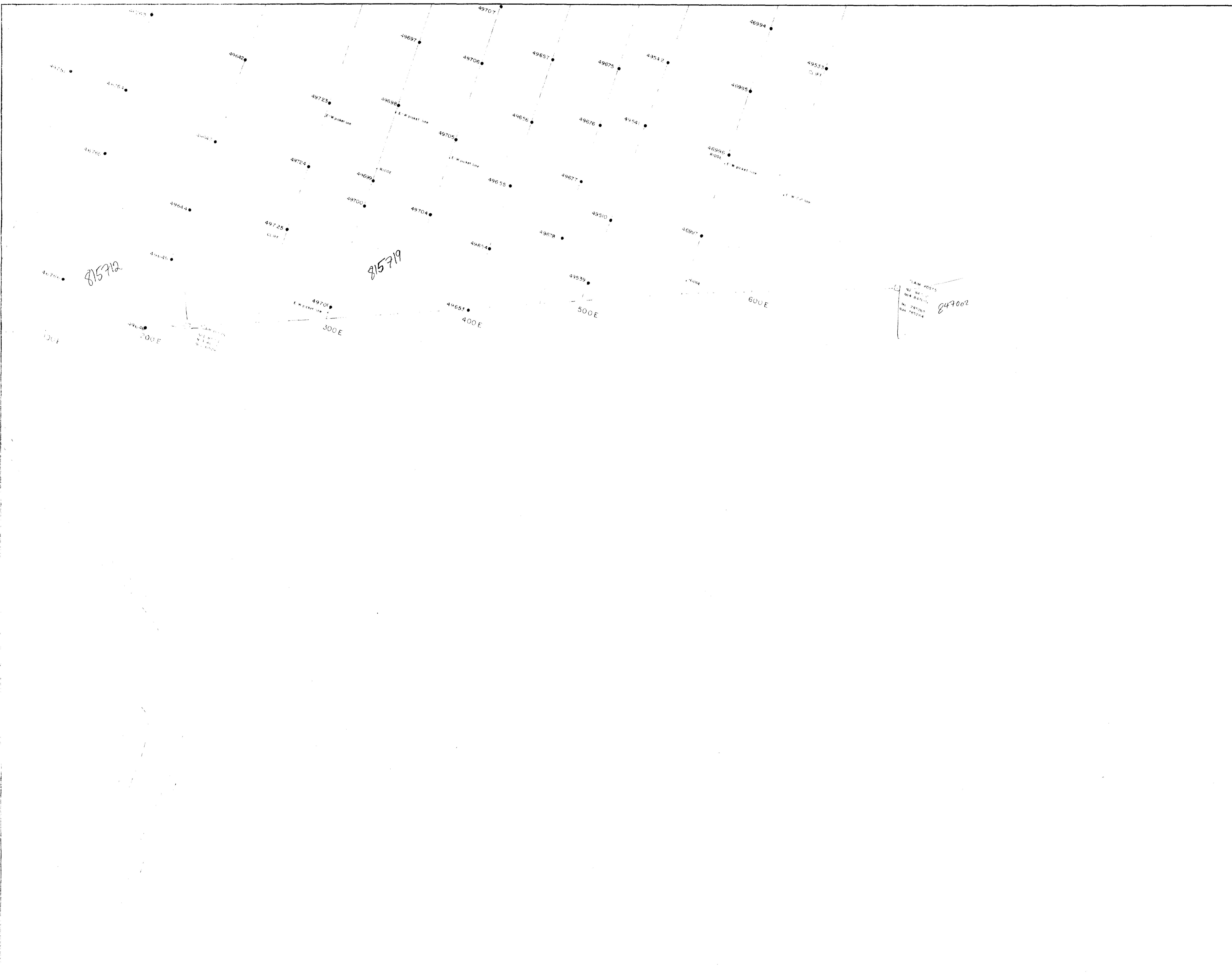


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HIGHWOOD RESOURCES	
DEADHORSE CREEK	1:1250
SET B SAMPLE LOCATIONS	
DATE 12/12/85	APPROVED BY 5



1	2
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HIGHWOOD RESOURCES
 DEADHORSE CREEK 11250
 SET B SAMPLE LOCATIONS
 12/12/85 6

28901

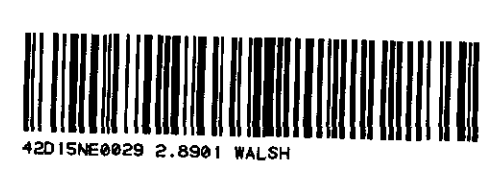


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3	4
5	6

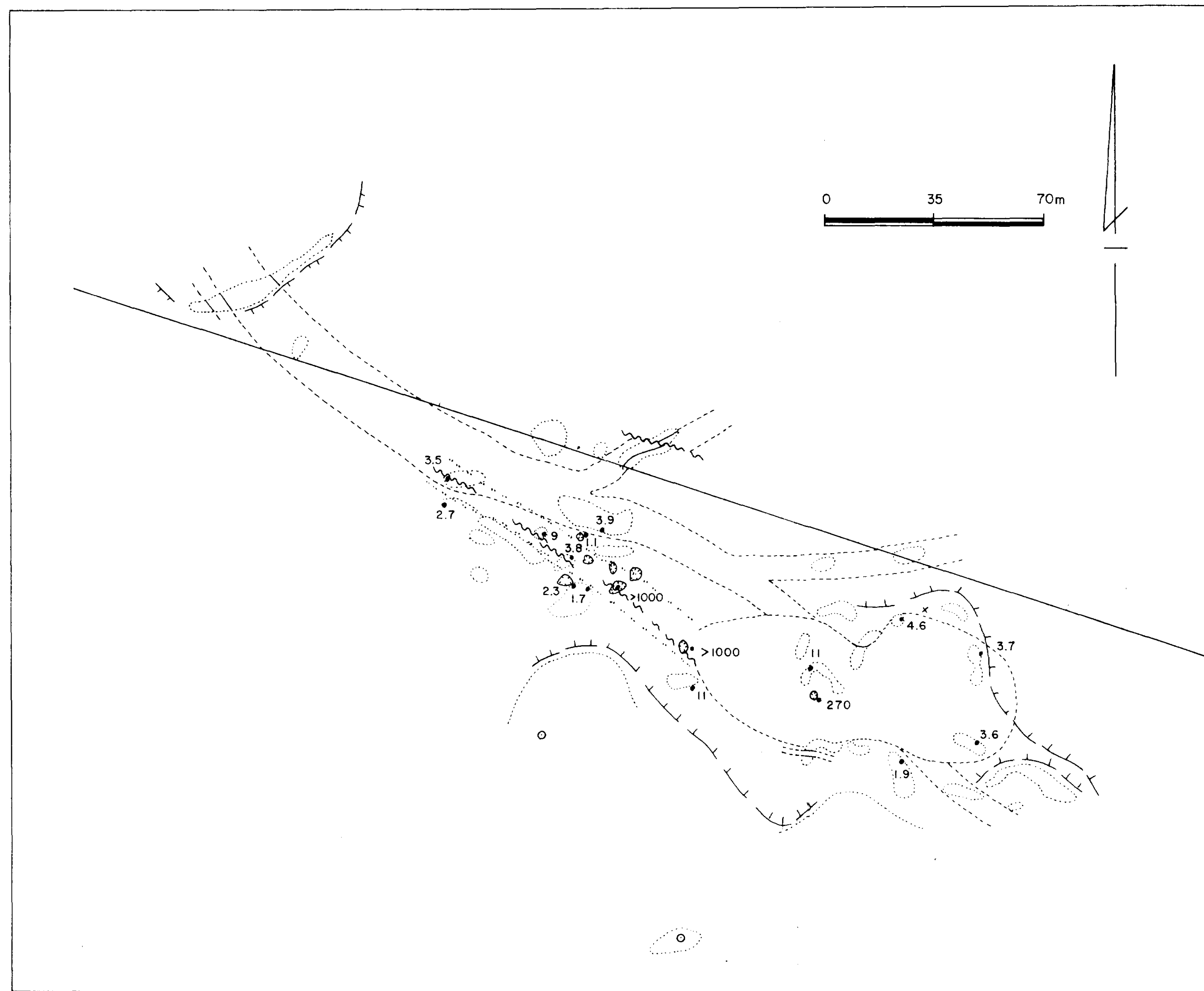


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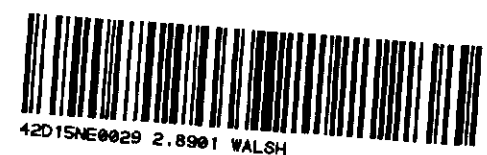
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DEADHORSE CREEK	SCALE 1:1250	DRAWN BY
SET C Be ASSAYS ppm		
DATE 12/12/85	APPROVED BY	DRAWING NUMBER Z

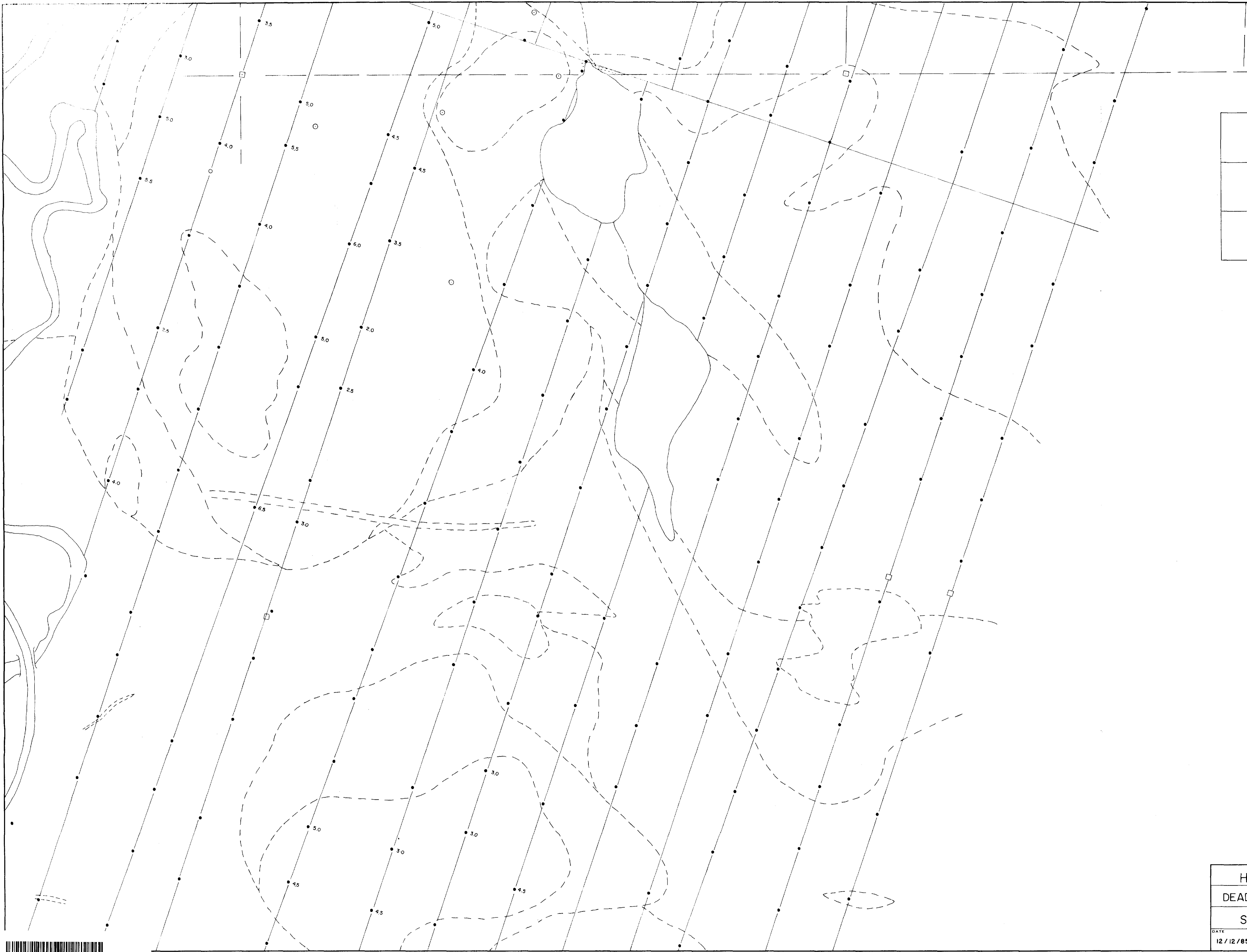


1	2
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HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY	REVISED
SET C Be ASSAYS ppm			
DATE 12/12/85	APPROVED BY 28901	DRAWING NUMBER 3	

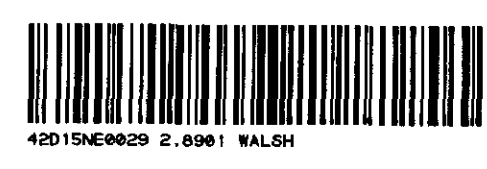




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28901.

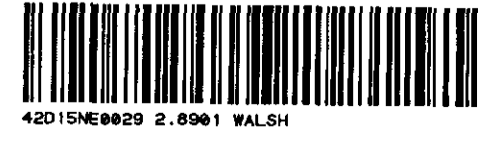
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DEADHORSE CREEK	SCALE 1:1250	DRAWN BY REVISED
SET C Be ASSAYS ppm		
DATE 12 / 12 / 85	APPROVED BY	DRAWING NUMBER 4





1	2
3	4
5	6

HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	PROJECT NO. 28901
SET C	Be ASSAYS	DATE 12/12/85
DATE 12/12/85	APPROVED BY	6



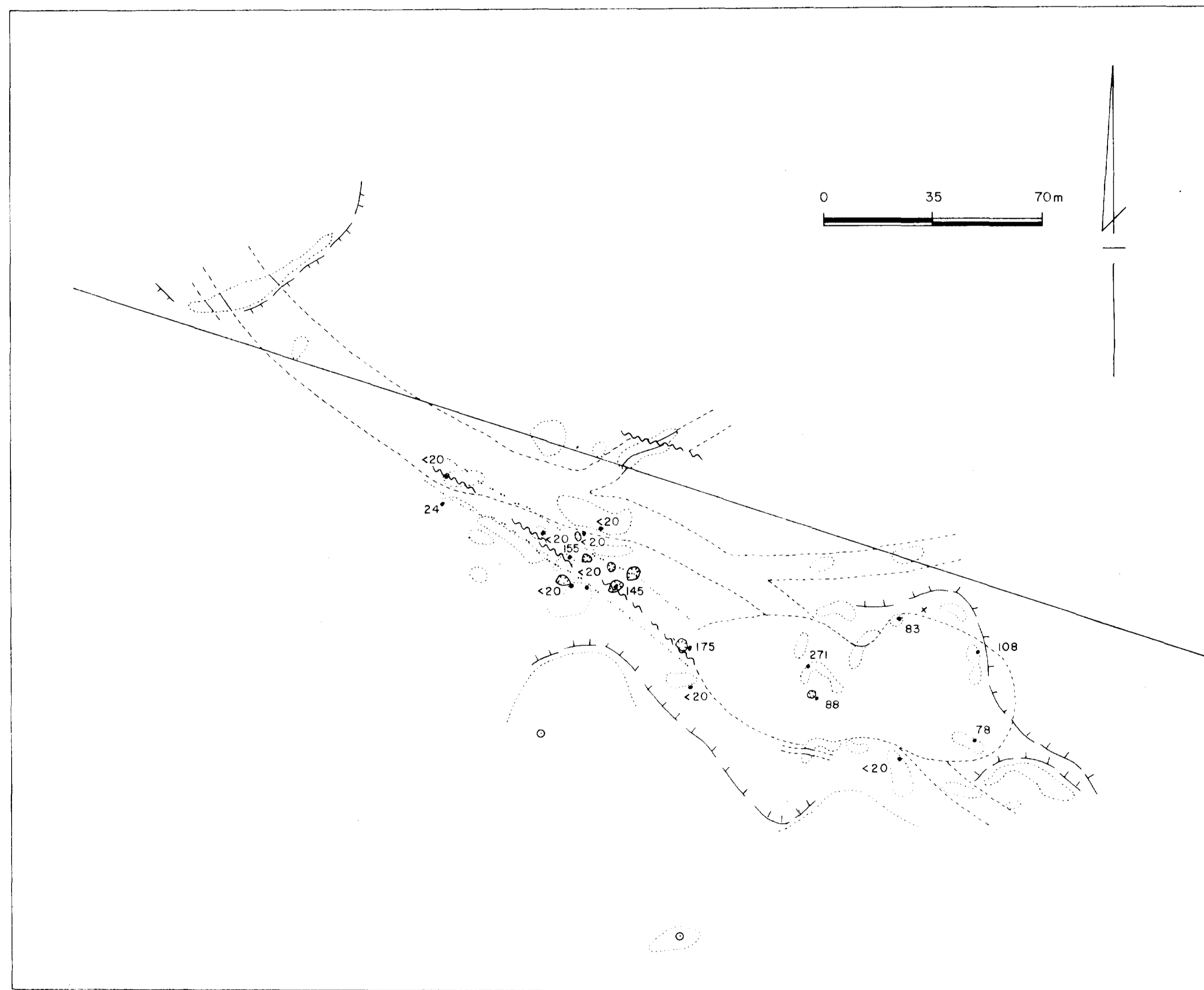
1	2
3	4
5	6



HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY	REVISED
SET D		Y	ASSAYS ppm
DATE 12/12/85	APPROVED BY	DRAWING NUMBER	2



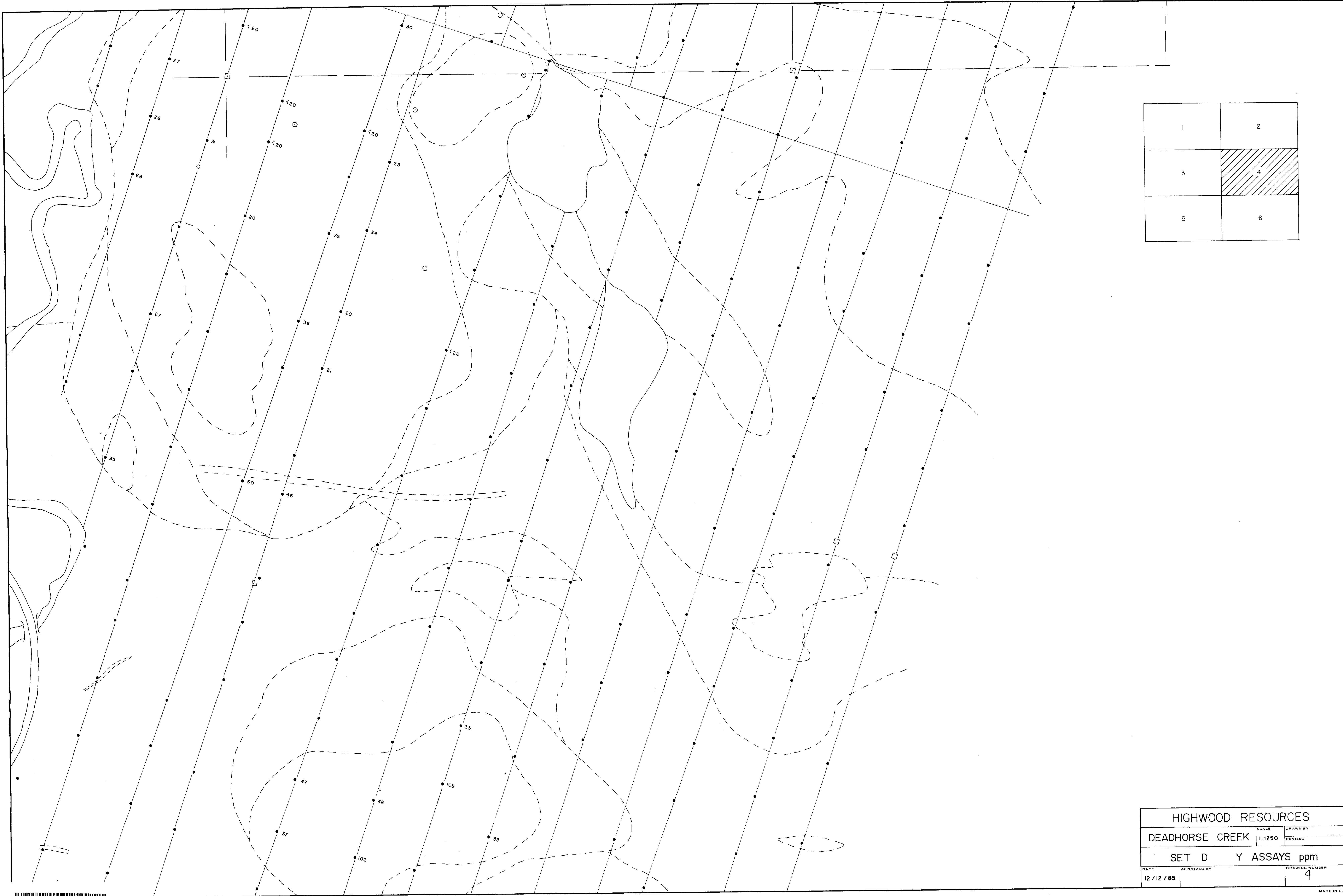
1	2
3	4
5	6



HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY	REVIEWED
SET D		Y ASSAYS	ppm
DATE 11/12/85	APPROVED BY	DRAWING NUMBER	3

28901

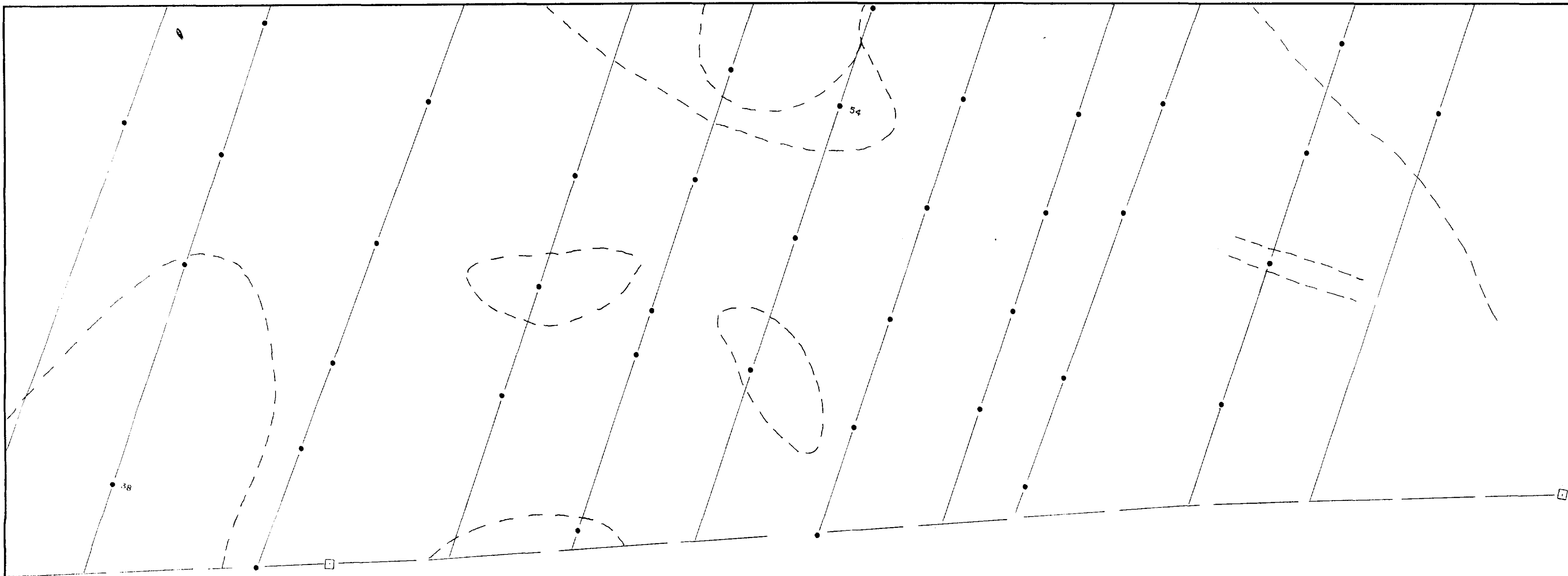




1	2
3	4
5	6

HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY REVISED
SET D Y ASSAYS ppm		
DATE 12/12/85	APPROVED BY	DRAWING NUMBER 4





1	2
3	4
5	6

HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY REVISED
SET D Y ASSAYS ppm		
DATE 12/12/85	APPROVED BY	REVISIONS 6



480156828 2.0001 WALSH

28901

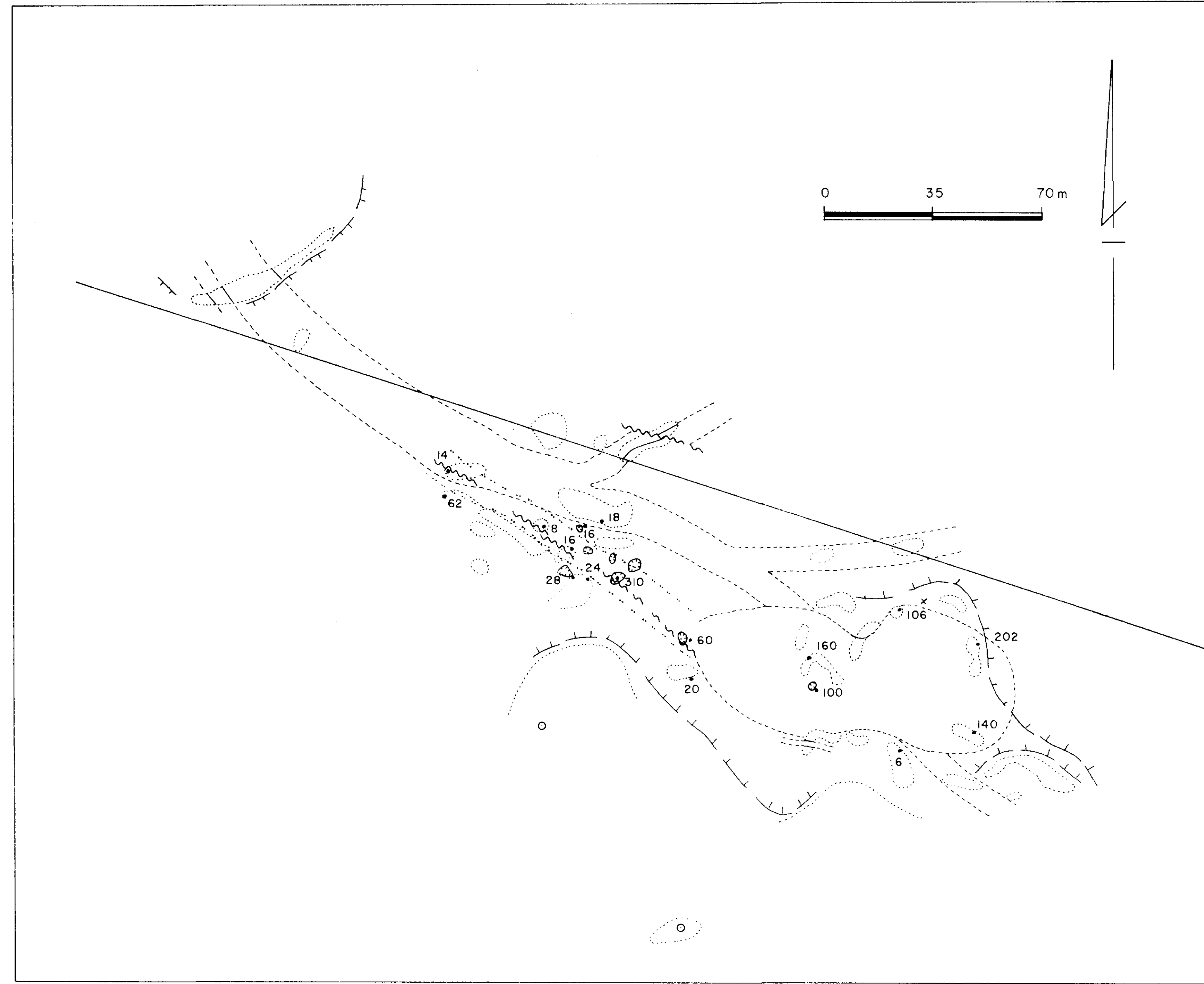
1	2
3	4
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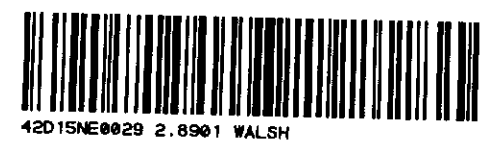
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SET E	Ce ASSAYS ppm	REVISED	
DATE 12/12/85	APPROVED BY	DRAWING NUMBER	2

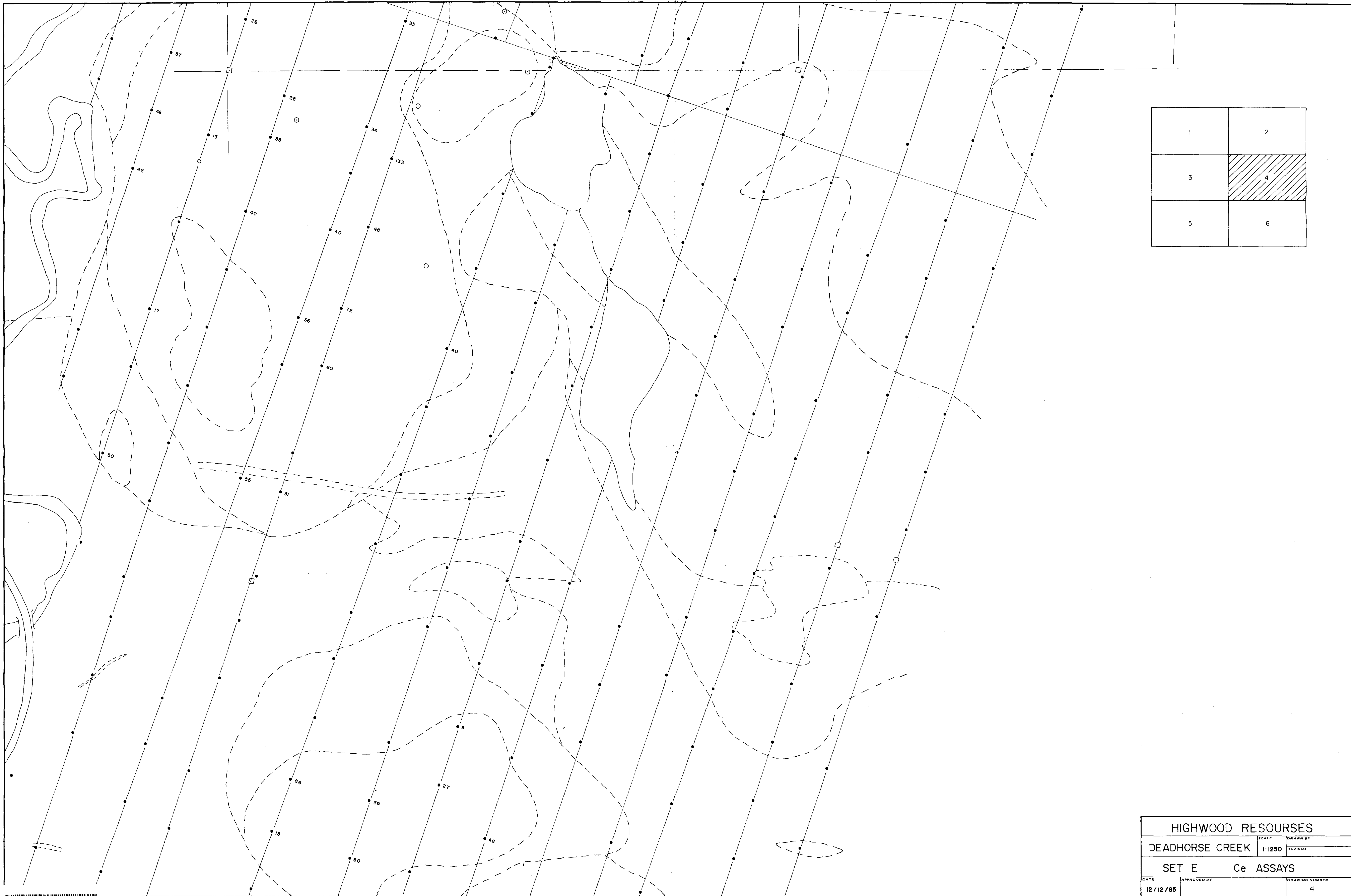


1	2
3	4
5	6



HIGHWOOD RESOURCES			
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY	REVISION
SET E	Ce ASSAYS ppm		
DATE 11/12/85	APPROVED BY 28901	DRAWING NUMBER	3





1	2
3	4
5	6

HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY
SET E	Ce ASSAYS	REVISED
DATE 12/12/85	APPROVED BY	DRAWING NUMBER 4





1	2
3	4
5	6

HIGHWOOD RESOURCES		
DEADHORSE CREEK	SCALE 1:1250	DRAWN BY REVISED
SET E Ce ASSAYS ppm		
DATE 12/12/85	APPROVED BY	DRAWING NUMBER 6

