

84-#177 - 12134

1185  
DRILLING AND TRENCHING REPORT  
on the  
"CORA" FRACTIONAL MINERAL CLAIM  
and PLACER LEASE NO. 7234

BRALORNE AREA

LILLOOET MINING DIVISION  
BRITISH COLUMBIA

92J/15W  
50°47' 30"N, 122°50'E

E & B EXPLORATIONS INC.  
1440 - 800 WEST PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

BY  
JOHN R. BELLAMY  
SENIOR GEOLOGIST

JANUARY 25, 1980  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,134

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## INTRODUCTION

Two mineral claims (Cora Fr. and Ace Fr.) and two placer leases (#7234 and #7235) all owned by E & B Explorations Inc. of Vancouver are situated just south of the junction of the Hurley River and Cadwallader Creek in the Bralorne area of the Lillooet Mining Division. The Cadwallader Creek valley occurs between the Bendor Range to the north and the Cadwallader Range to the south. The town and mine site of Bralorne are located 1 km east on the northern side of Cadwallader Creek.

Work carried out in May 1983 involved the testing of the area by a drilling and trenching program. Trench sampling and the sampling of drill cuttings, which were then submitted for assay, constitutes the main expenditures made in 1983. Six holes totalling 74.4 m were drilled and five trenches were excavated.

## LOCATION AND ACCESS

The property is located in the Bridge River District of the Lillooet Mining Division near the confluence of the Hurley River and Cadwallader Creek and is adjacent to the 133 crown-granted mineral claims held by E & B under an agreement with Bralorne Resources Limited. The townsite of Bralorne is located one kilometer upstream on the northern side of Cadwallader Creek. The property is located in a low drainage, saddle area and can be reached from Bralorne by a gravel road which currently loops through an abandoned subdivision. The northern portion is accessible by an old road that was used to service the Pioneer Mine power house and its penstock.

Bralorne is approximately 160 kilometers due north of Vancouver, B.C., 100 kilometers west of Lillooet and 11 kilometers south of Goldbridge in the Bridge River district. A good all-weather gravel road, designated highway 40, connects Lillooet to Bralorne and provides the best access into the Bridge River valley.

MINERAL TITLE

The property consists of two fractional mineral claims and two placer leases, the particulars of which are set out below:

Mineral Claims

	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry Date</u>
Cora Fraction	1	1800 (6)	08/06/81	08/06/85
Ace Fraction (L. 7335 - Reverted Crown Grant)	1	1894 (2)	01/02/82	01/02/84

Placer Leases

<u>Placer Lease</u>	<u>Tag. No.</u>	<u>Date of Issue</u>	<u>Term of Lease</u>	<u>Assessment Due</u>
7232	P22354	10/11/81	10 years	10/11/86
7235	P22355	10/11/81	10 years	10/11/86

All the above are held in the name of E & B Explorations Inc. and are adjacent to 133 crown-granted mineral claims registered in the name of Bralorne Resources Limited and held under agreement by E & B.

## PHYSIOGRAPHY

The property is located adjacent Cadwallader Creek just downstream from the Bralorne-Pioneer gold-quartz deposits which occur along the eastern flank of the Coast Range Batholith. The valley is bounded by the Bendor Range to the north and the Cadwallader Range to the south. The property is located south of the junction of the Hurley River and Cadwallader Creek on a bench of land between the two river systems. Cadwallader Creek which flows past the Bralorne-Pioneer mine sites has a water shed of some 250 km<sup>2</sup> and originates from steep-sided peaks and narrow valleys that flank the river system to its headwaters at McGillivray Pass. The larger Hurley River has a watershed of some 368 km<sup>2</sup> and crosses the northern end of lease #7235. The property lies dominantly on a hummocky glaciated bench that drops steeply to Cadwallader Creek to the east and the Hurley River to the North.

## REGIONAL GEOLOGY AND SETTING

In the mid 1800's prospectors working west from the Fraser River entered the Bridge River area and discovered placer gold deposits along Cadwallader Creek and the Bridge River. The first lode mining claims in the Bralorne area were staked in 1896 on sub-cropping quartz veins that later were developed into the Bralorne-Pioneer mining operations.

The productive gold bearing zone in the Bridge River area occurs within a regional northwest striking fault lens that cuts Permian to Jurassic sedimentary/volcanic rock units and is known as the Cadwallader fault lens. These units lie between the main Coast Range Batholith and the smaller outlying Bendor plutons. Intruding this fault structure are small granitic to ultrabasic stocks and dykes. The Cadwallader fault lens is an intricate fault system comprised of interlacing reverse, normal and strike-slip faults that form a structural lens approximately two kilometers wide and up to five kilometers long. The gold veins in the fault lens have been mined to a depth of over 1.8 kilometers. The depth persistence of these veins is attributed to the Cadwallader fault system being a deep seated crustal structure that is related to the continental Fraser fault system.

The placer gold in the gravels along the Cadwallader were derived in part from these gold veins which were eroded during and between successive alpine glaciation periods. The intra glacial fluvial gravels which are reworked glacial tills and bedrock debris contain workable placers due to the concentrating of gold particles in a high energy river system. The glaciated bench containing the two placer leases could host a remnant placer deposit now stranded by the down cutting Cadwallader Creek.

### SURFICIAL GEOLOGY

The property covers a bench of land containing overburden that reflects ice marginal depositional features related to mountain glaciation. The slopes and ridges are mantled in glacial till varying from a thin veneer over bedrock to about 20 meters in thickness. The till is a sandy gravel including a poorly sorted mixture of boulders to clay-size material. The till is dense to very dense in consistency.

In the valley bottom, the till is stratified with layers of clean sand to dirty sand and gravel. The stratification varies in thickness from a few centimetres to several metres. Morainal ridges comprised of glacial till in lateral and end moraines form a low lip against which the stratified, water-bearing deposits are truncated. Organic soils in this local depression have formed up to a one-metre thick, peat-like soil overlying the stratified, glacio fluvial materials. This solid horizon is classified as a Terric Mesic Fibrosol. The better drained areas of the valley bottom support an Orthic Ferro-Humic Podzol which rarely exceeds 600 mm in thickness. The undisturbed forests of fir, aspen, alder, cottonwood and larch contain a soil profile consisting of an aggregate (L.F.H.) horizon.

Bedrock underlying the leases are a steeply dipping thick section of Triassic-Jurassic sedimentary/volcanic rocks of the Hurley-Noel Formations. The units strike northwest, dip steeply south and are comprised of finely banded argillites, tuffs, limestones, and conglomerates.

SUMMARY OF WORK

The 1983 assessment work consisted of a drilling, trenching and sampling program designed to test both lode and the placer potential on the property. The drilling and trenching was supervised by the engineering firm of Robinson Dames and Moore.

Drilling: Six test holes totalling 74.4 metres were drilled using a Becker drill rig. The drill contractor was SDS Drilling of Vancouver. The holes, summarized below varied from 5.5 to 18.3 metres in depth and are located on Figure 3 and the logs are illustrated on Figures 4 through 8. Assay results for the samples collected from each of the holes are appended to the report and the sampled intervals are included on the assay certificate. A second set of assays, B1-B3, B5 and B6 represent composite samples taken from five of the drill holes. The certificate of analysis is dated May 26, 1983.

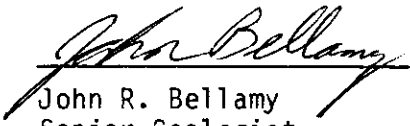
<u>Hole No.</u>	<u>Length</u>
B-1	7.9 m (26 ft.)
B-2	11.0 m (36 ft.)
B-3	14.0 m (46 ft.)
B-4	18.3 m (60 ft.)
B-5	17.7 m (58 ft.)
B-6	5.5 m (18 ft.)
	<hr/>
	74.4 m (244 ft.)

Trenching: Five test pits were excavated to depths of approximately 3 metres using a rubber-tired J.D. 4 backhoe. The geologic log of these pits are illustrated in Figure 9 and their locations are plotted on Figure 3. Samples were taken from the stratified sand horizons and were panned for gold content. No gold was observed in the panned concentrate.

Sampling: Twenty three samples taken at selected intervals from the drill cuttings were taken to Chemex Labs Ltd. of Vancouver and an analysis for gold performed. The samples were dried, crushed to minus 1/4 inch, rifled, split down to 1 pound, pulverized to 100 mesh, rolled and a one

assay ton sample fire assayed. The resulting bead was digested and an A.A. finish used to determine the gold content. The assay certificates are appended and contain the hole numbers and the intervals samples.

Respectfully Submitted,

  
John R. Bellamy  
Senior Geologist



STATEMENT OF COSTS

TRENCHING

- 5 test pits numbered TP 20 - TP 24 were excavated during the period May 1-5, 1983 by Jan-Del Holdings Ltd. of Bralorne.
- Cat 350B - 11.5 hours @ \$35.00 = \$402.50
- Model 510 Backhoe - 7.5 hours @ \$48.00 = 360.00
- \$762.50**

DRILLING

- 6 holes numberes B-1 to B-6 and totalling 74.4 meters (244') were drilled from May 1-5, 1983 by SDS Drilling of Vancouver.
- Total invoiced cost for drilling = \$6890.00
- Average cost per metre = \$92.61

ANALYTICAL

- 28 Au determinations performed by Chemex Labs of North Vancouver
- Total invoiced cost = \$368.75

PROJECT SUPERVISION

- Project geologist -
  - 5 days @ \$315.00/day \$1575.00
- Vehicle
  - 5 days @ \$60.00/day \$300.00
- Accommodation
  - 5 days @ \$40.00/day \$200.00
- \$2075.00**

TOTAL EXPENDITURE \$10,096.25

STATEMENT OF QUALIFICATIONS


I, John R. Bellamy, B.Sc., Geology, of 207-1898 Balsam Street, Vancouver, B.C., V6K 3M4, state as follows:

1. That I graduated from the University of Calgary in 1970 with a Bachelor of Science Degree in Geology.
2. That I have prospected and actively pursued geology prior to my graduation and have practiced my profession since 1970 as follows:

1981-1984	Senior Geologist E & B Explorations Inc. Vancouver, British Columbia
1978-1981	Chief Geologist Bethlehem Copper Corporation Vancouver, British Columbia
1971-1978	Project Geologist Bethlehem Copper Corporation Vancouver, British Columbia
1970-1971	Junior Geologist Cominco Ltd. Vancouver, British Columbia
1968-1969	Prospecting and Geological Surveys Summer Student Employment

3. That I am presently employed as a Senior Geologist with E & B Explorations, Inc. 1440 - 800 West Pender Street, Vancouver, B.C. V6C 2V6.

Dated at Vancouver, British Columbia )  
this 31 day of January, 1984 )

  
\_\_\_\_\_)  
J.R. Bellamy, B.Sc. )

**ANALYTICAL RESULTS**



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : E & B EXPLORATIONS INC.,

1440 - 800 W. PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

CERT. # : A8311243-001-A  
INVOICE # : 18311243  
DATE : 26-MAY-83  
P.C. # : NONE

ATTN: J. BELLAMY

Sample description	Prep code	Au	FA+AA					
			ppb					
B-1 A	0		10	--	--	--	--	--
B-2 A	0		5	--	--	--	--	--
B-3 A	0		<5	--	--	--	--	--
B-5 A	0		<5	--	--	--	--	--
B-6 A	0		<5	--	--	--	--	--
B-1 B	0		<5	--	--	--	--	--
B-2 B	0		<5	--	--	--	--	--
B-3 B	0		<5	--	--	--	--	--
B-5 B	0		<5	--	--	--	--	--
B-6 B	0		<5	--	--	--	--	--



Certified by *B. Swates*



# CHEMEX LABS LTD.

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• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

## CERTIFICATE OF ASSAY

TO : E & B EXPLORATIONS INC.,

1440 - 800 W. PENDER STREET  
VANCOUVER, B.C.  
V6C 2V6

CERT. # : A8311243-001-A  
INVOICE # : 18311243  
DATE : 26-MAY-83  
P.O. # : NONE

ATTN: J. BELLAMY

Sample description	Prep code	Weight grams	(Total)					
B-1 A	0	9178	--	--	--	--	--	--
B-2 A	0	11358	--	--	--	--	--	--
B-3 A	0	9494	--	--	--	--	--	--
B-5 A	0	9277	--	--	--	--	--	--
B-6 A	0	3536	--	--	--	--	--	--
B-1 B	0	--	--	--	--	--	--	--
B-2 B	0	--	--	--	--	--	--	--
B-3 B	0	--	--	--	--	--	--	--
B-5 B	0	--	--	--	--	--	--	--
B-6 B	0	--	--	--	--	--	--	--

.....  
Registered Assayer, Province of British Columbia





# CHEMEX LABS LTD.

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NORTH VANCOUVER, B.C.  
CANADA V7J 2C1

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : ROBINSON DAMES AND MOORE

420 - 212 BROOKSBANK AVE.,  
NORTH VANCOUVER, B.C.  
V7J 2C1

CERT. # : A8311973-001-A  
INVOICE # : 18311973  
DATE : 28-JUN-83  
P.O. # : NONE

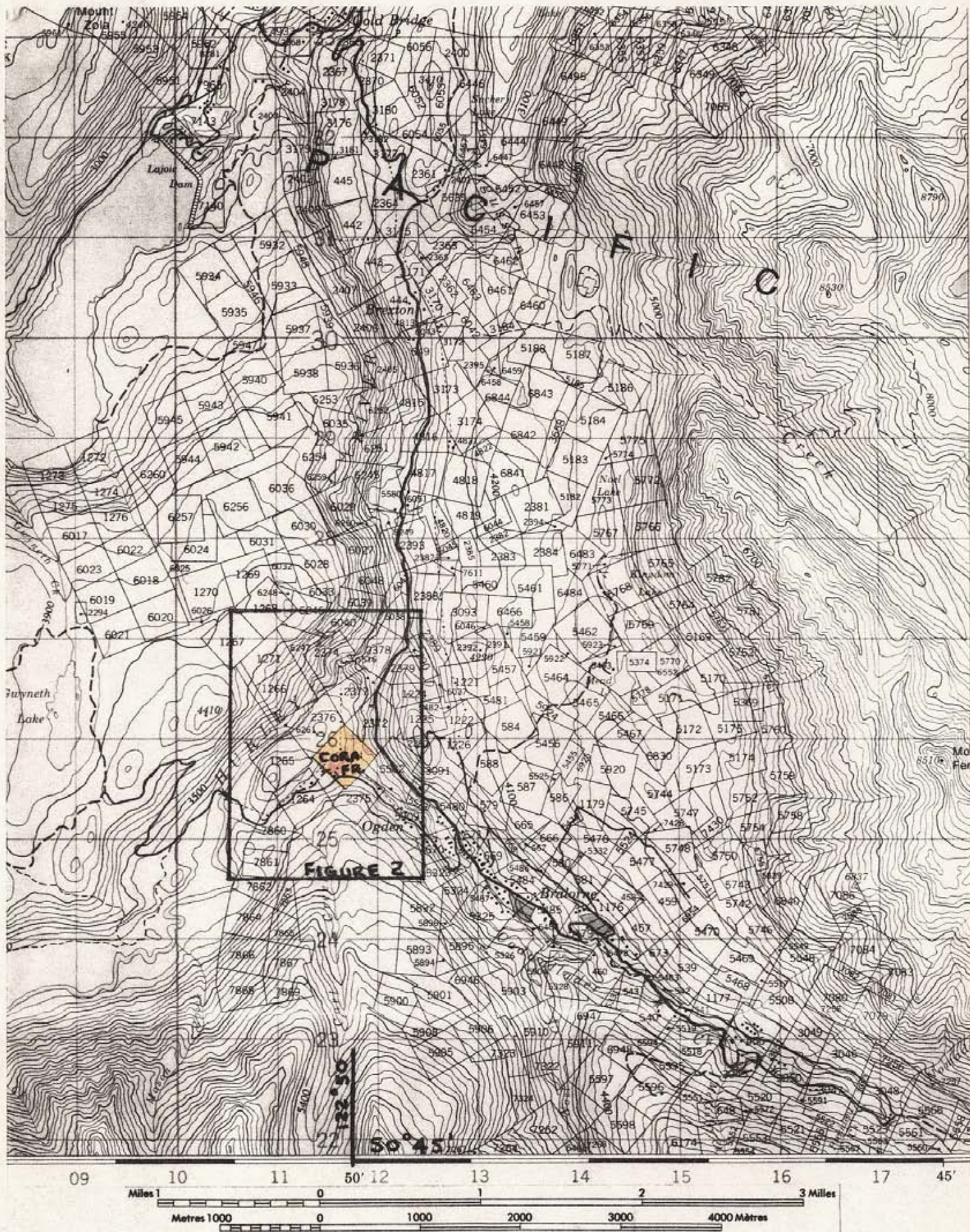
HALE	Sample	Prep Au	FA+AA						
a.	description	code	ppb						
	#4 AT 10'	205	<5	--	--	--	--	--	--
B-1	#4 AT 20'	205	15	--	--	--	--	--	--
	#4 AT 25'	205	<5	--	--	--	--	--	--
	H5 AT 10'	205	<5	--	--	--	--	--	--
B-2	H5 AT 20'	205	<5	--	--	--	--	--	--
	H5 AT 30'	205	<5	--	--	--	--	--	--
	H5 AT 35'	205	<5	--	--	--	--	--	--
	H6 AT 10'	205	<5	--	--	--	--	--	--
R-3	H6 AT 20'	205	<5	--	--	--	--	--	--
	H6 AT 25'	205	<5	--	--	--	--	--	--
	H7 AT 10'	205	<5	--	--	--	--	--	--
	H7 AT 20'	205	<5	--	--	--	--	--	--
-4	H7 AT 30'	205	<5	--	--	--	--	--	--
	H7 AT 40'	205	<5	--	--	--	--	--	--
	H7 AT 50'	205	<5	--	--	--	--	--	--
	H7 AT 60'	205	<5	--	--	--	--	--	--
	H8 AT 18'	205	<5	--	--	--	--	--	--
B-5	H8 AT 30'	205	<5	--	--	--	--	--	--
	H8 AT 40'	205	<5	--	--	--	--	--	--
	H8 AT 50'	205	<5	--	--	--	--	--	--
	H8 AT 55'	205	<5	--	--	--	--	--	--
	H9 AT 6'	205	<5	--	--	--	--	--	--
P-6	H9 AT 15'	205	<5	--	--	--	--	--	--



Certified by *Hart Bickler*

## ILLUSTRATIONS

<u>Figure No.</u>	<u>Title</u>	<u>Scale</u>
1	Location Plan	1:50,000
2	Claim Map	1:10,000
3	Drill Hole and Trench Plan	1:1,200
4	Drill Hole Log - B-1, B-2	1:120
5	Drill Hole Log - B-3	1:120
6	Drill Hole Log - B-4	1:120
7	Drill Hole Log - B-5	1:120
8	Drill Hole Log - B-6	1:60
9	Test Pit Log	1:60

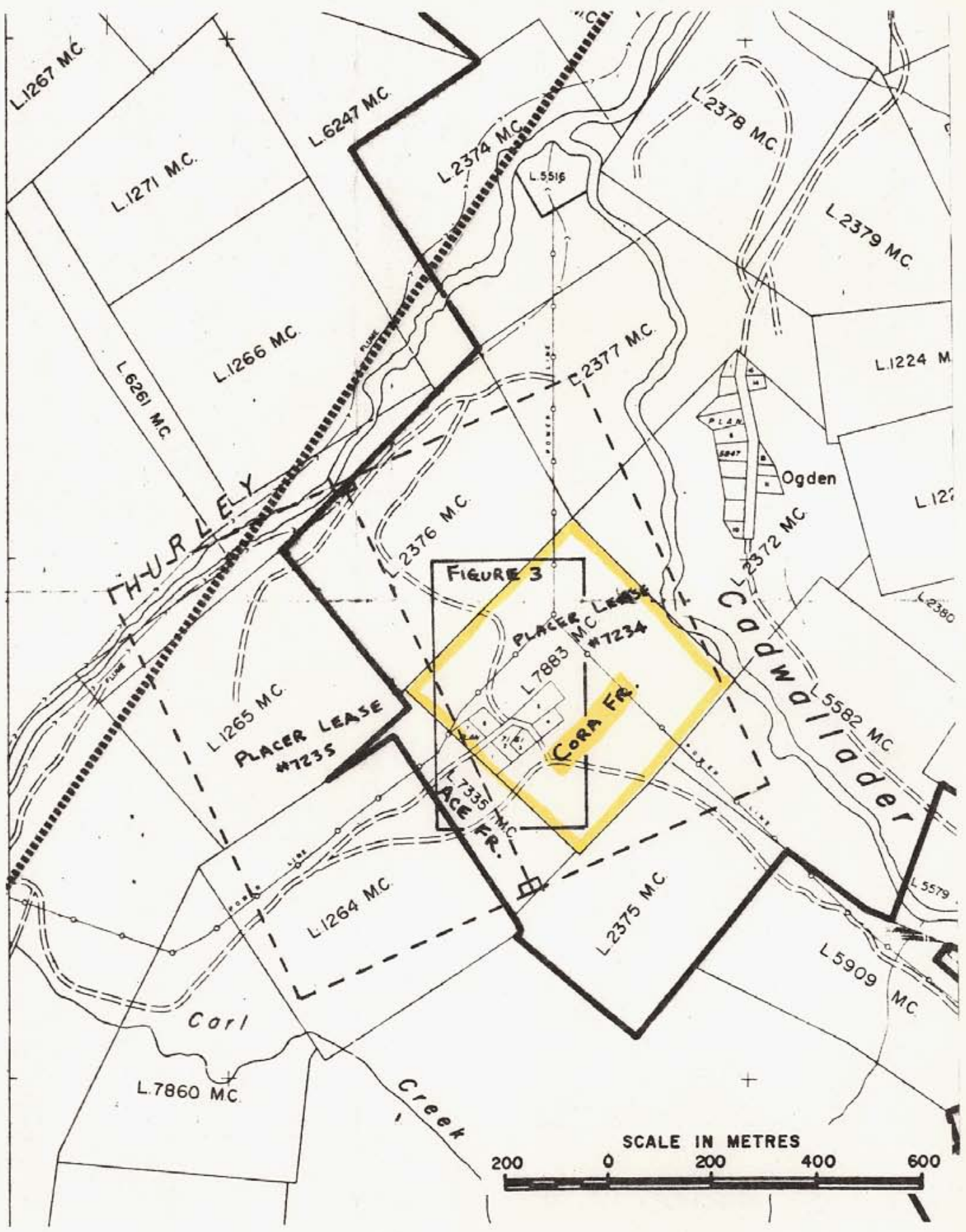


LOCATION MAP

FIGURE 1

SCALE 1:50 000

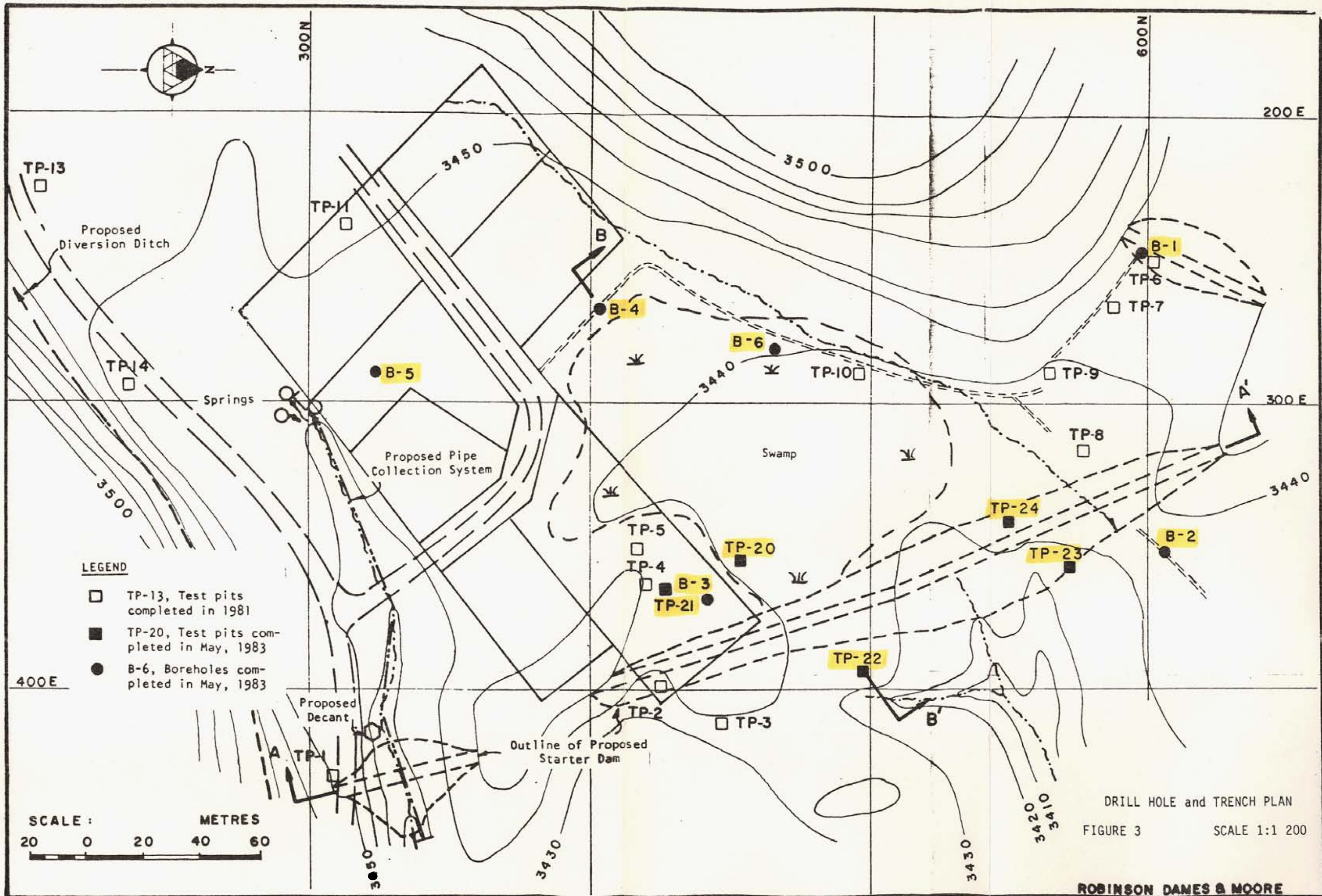




CLAIM MAP

FIGURE 2

SCALE 1:10 000



**LEGEND**

- TP-13, Test pits completed in 1981
- TP-20, Test pits completed in May, 1983
- B-6, Boreholes completed in May, 1983

DRILL HOLE and TRENCH PLAN

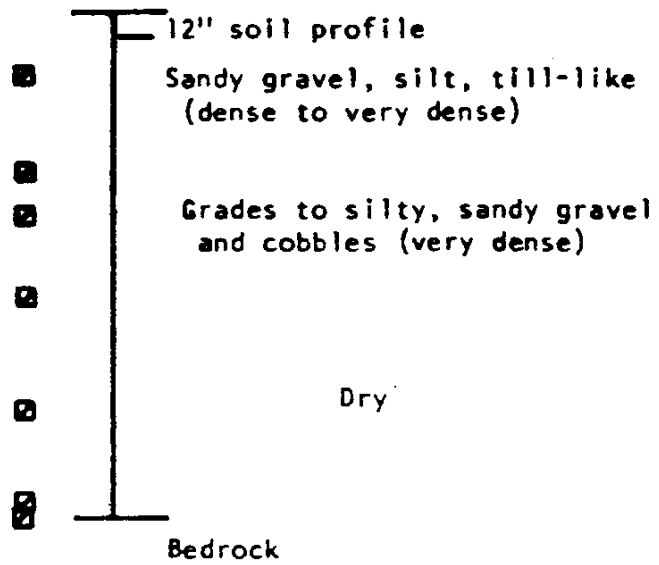
FIGURE 3 SCALE 1:1 200

ROBINSON DAMES & MOORE

Depth, feet	Blow Count	
	B	N
0	19	
	40	
	35	
10	120	
	280	
	210	
	256	
20	110	
	366	
30		

BORING B-1  
Elev. 3442 ft.

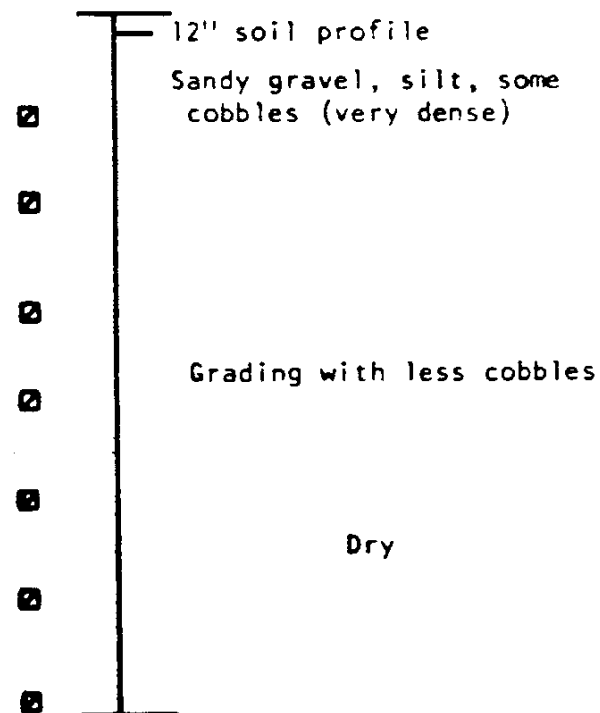
W S



Depth, feet	Blow Count	
	B	N
0	13	
	2	
	70	
	104	
	80	
	160	
10	220	
	180	
	300	
	157	
	108	
20	120	
	130	
	280	
	304	
	126	
30	140	
	135	
40		

BORING B-2  
Elev. 3431 ft.

W S



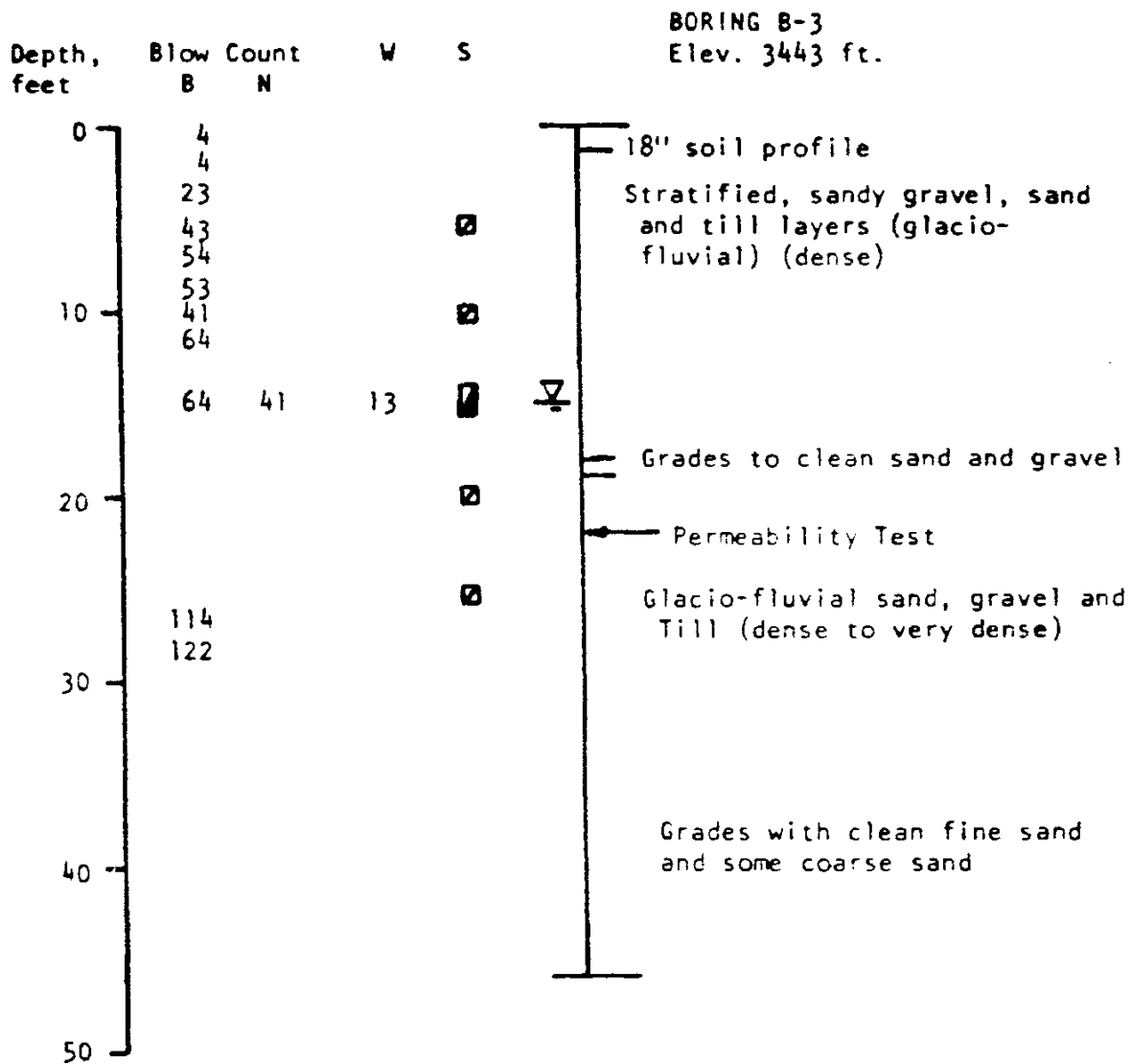
DRILL HOLE LOG - B-1, B-2

FIGURE 4

SCALE 1:120

See Plate 4 for Legend

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LEGEND

- S - Sample
- ☐ - Standard Penetration Test sample location
- ☐ - Grab sample
- B - Blow Count for Becker rig driving 5½" bit one foot with a diesel pile driving hammer
- N - Blow Count to drive standard 2"-Ø sampler one foot with 140-lb. hammer falling 12 inches
- W - Moisture Content in percent
- ▽ - Water level at time of drilling

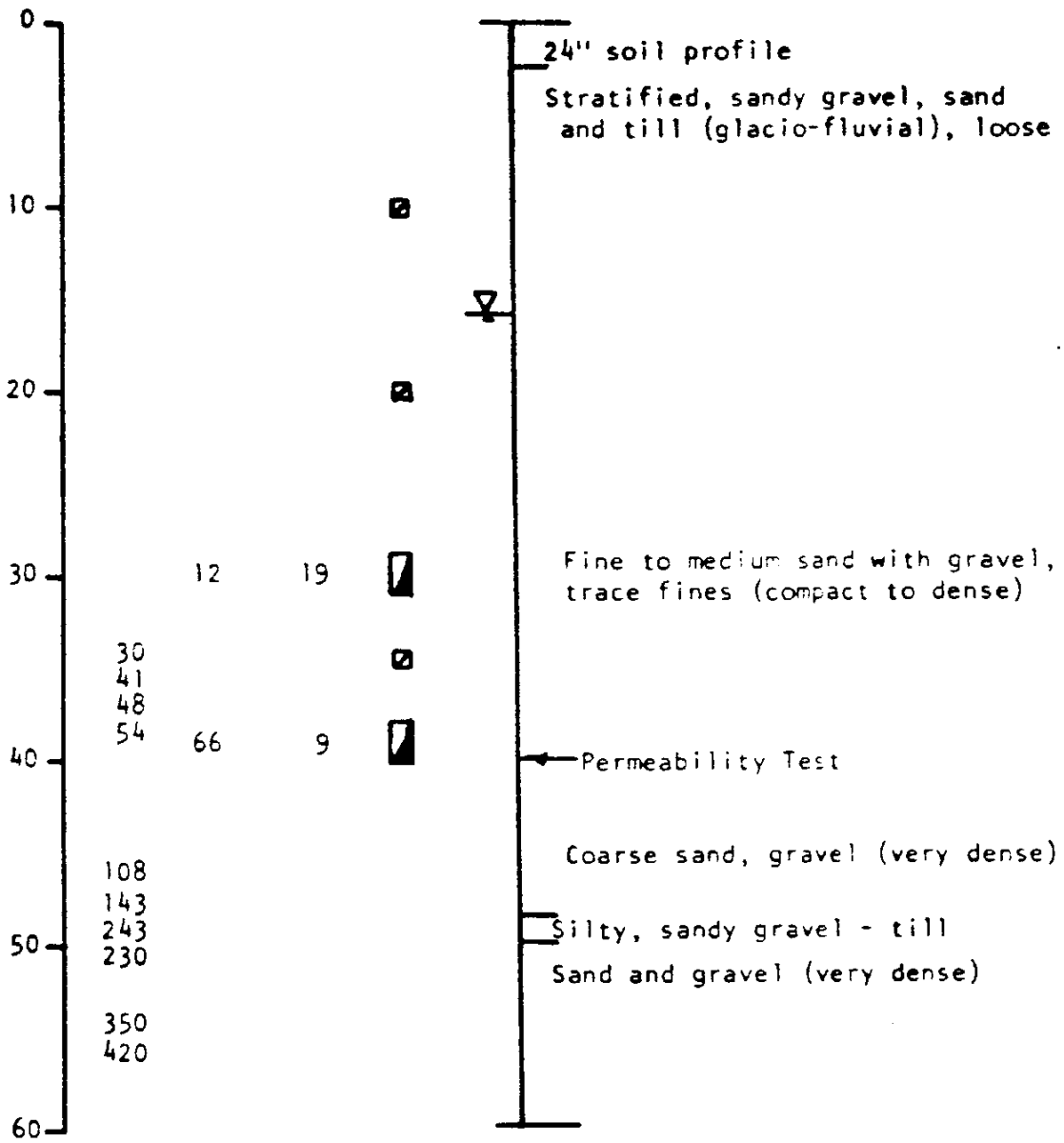
DRILL HOLE LOG - B-3

FIGURE 5

SCALE 1:120

Depth, Blow Count  
feet B N W S

BORING B-4  
Elev. 3443 ft.



See Plate 4 for Legend

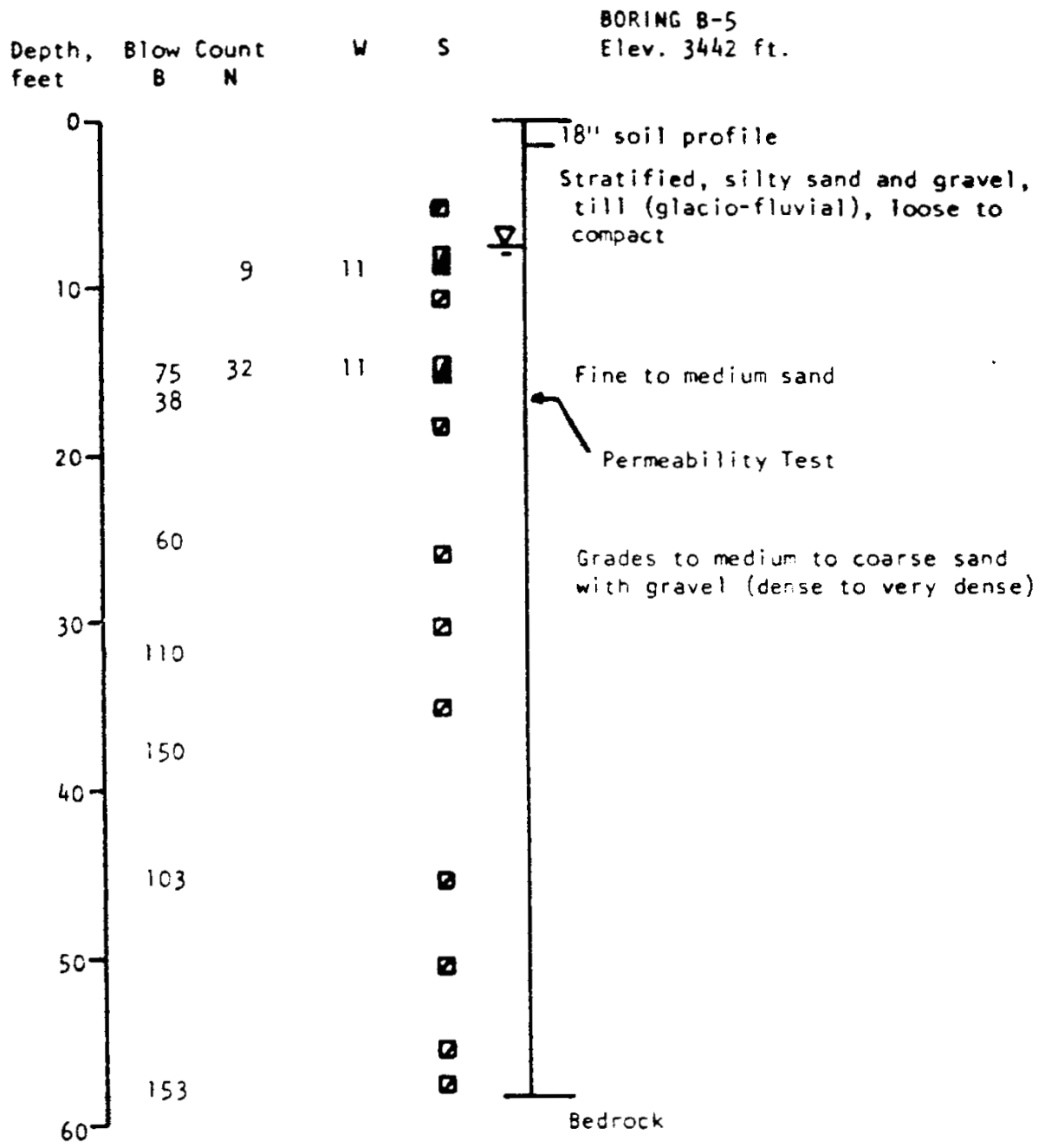
DRILL HOLE LOG - B-4

FIGURE 6

SCALE 1:120

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 FILE \_\_\_\_\_  
 BY \_\_\_\_\_ DATE \_\_\_\_\_  
 VISIT \_\_\_\_\_

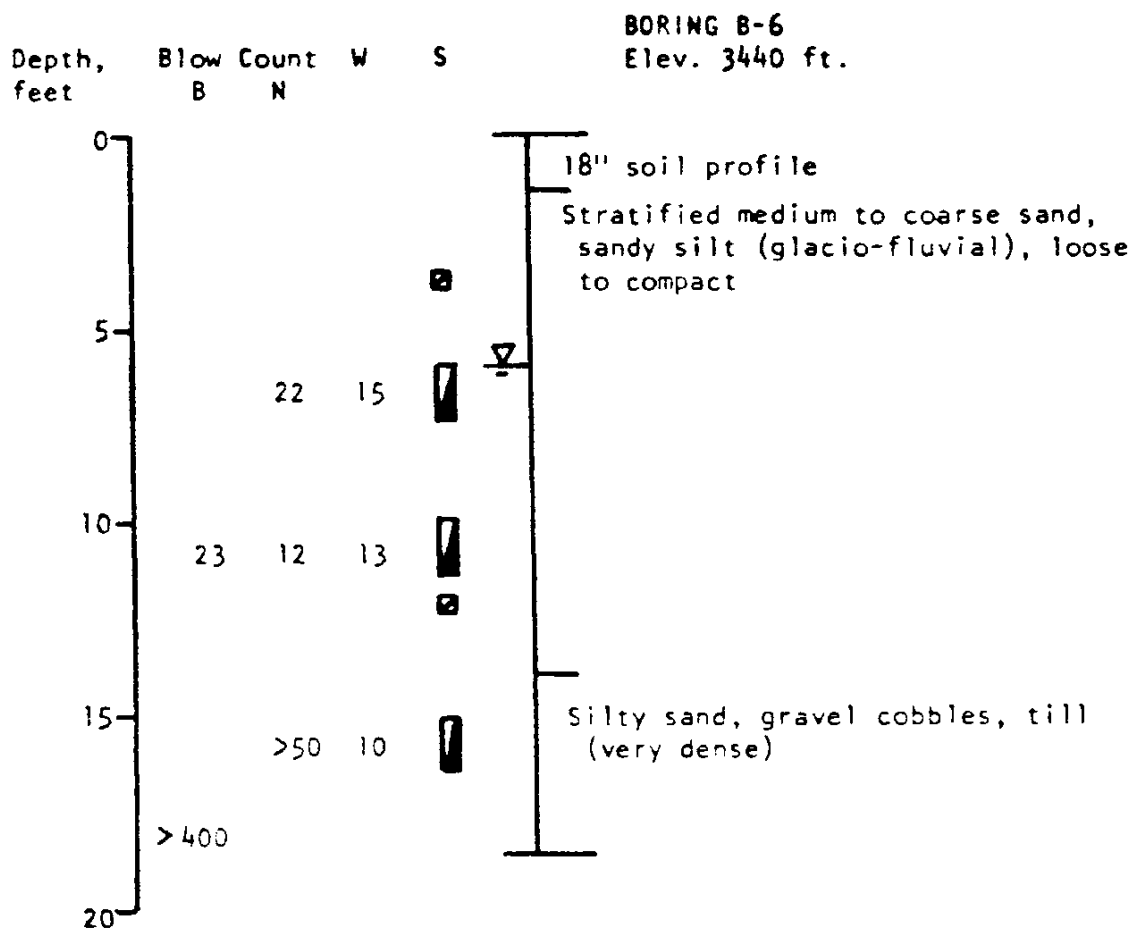
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See Plate 4 for Legend

DRILL HOLE LOG - B-5  
FIGURE 7 SCALE 1:120

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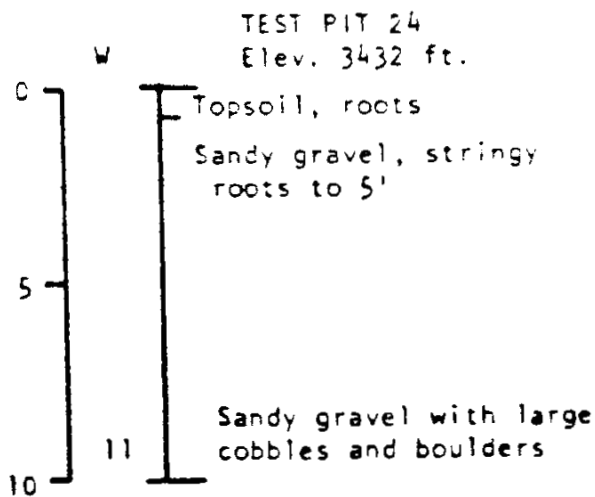
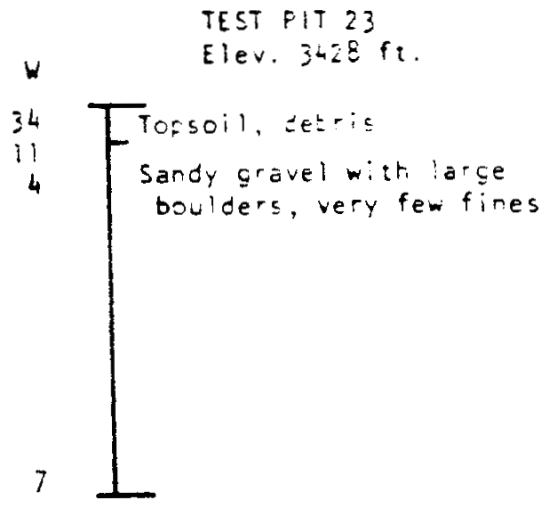
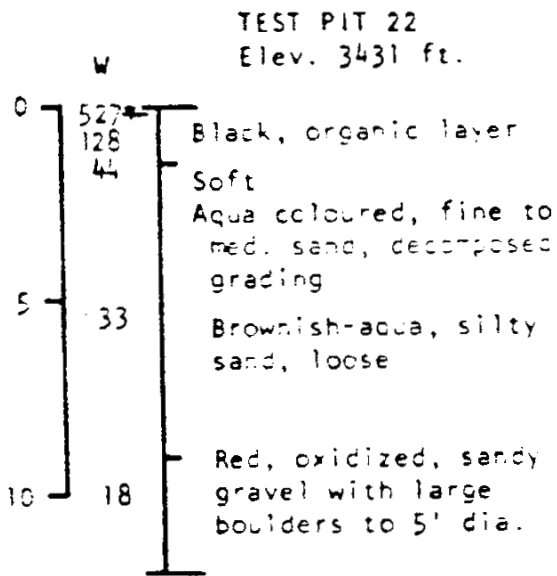
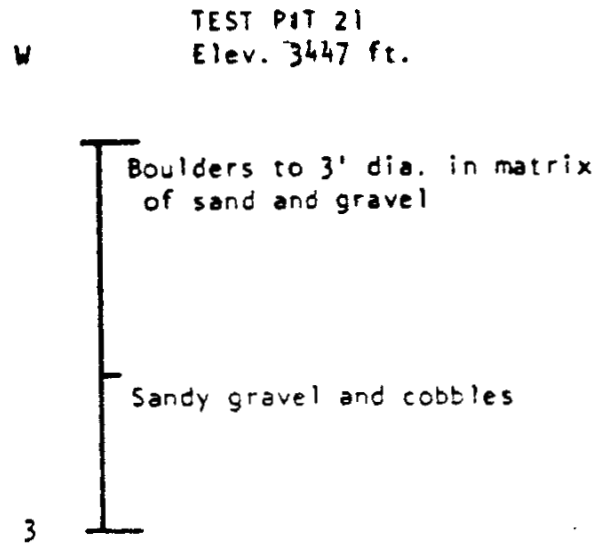
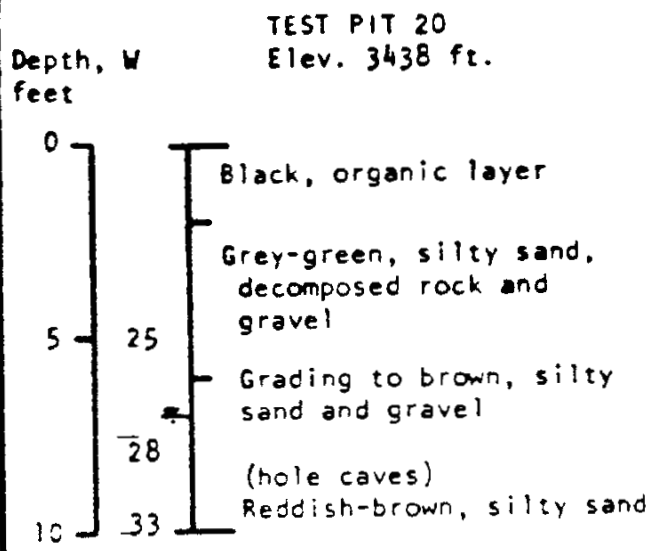


See Plate 4 for Legend

DRILL HOLE LOG - B-6

FIGURE 8

SCALE 1:60



LEGEND

- W - Moisture Content in percent
- - Observed water level

TEST PIT LOG

FIGURE 9

SCALE 1:60

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ FILE \_\_\_\_\_