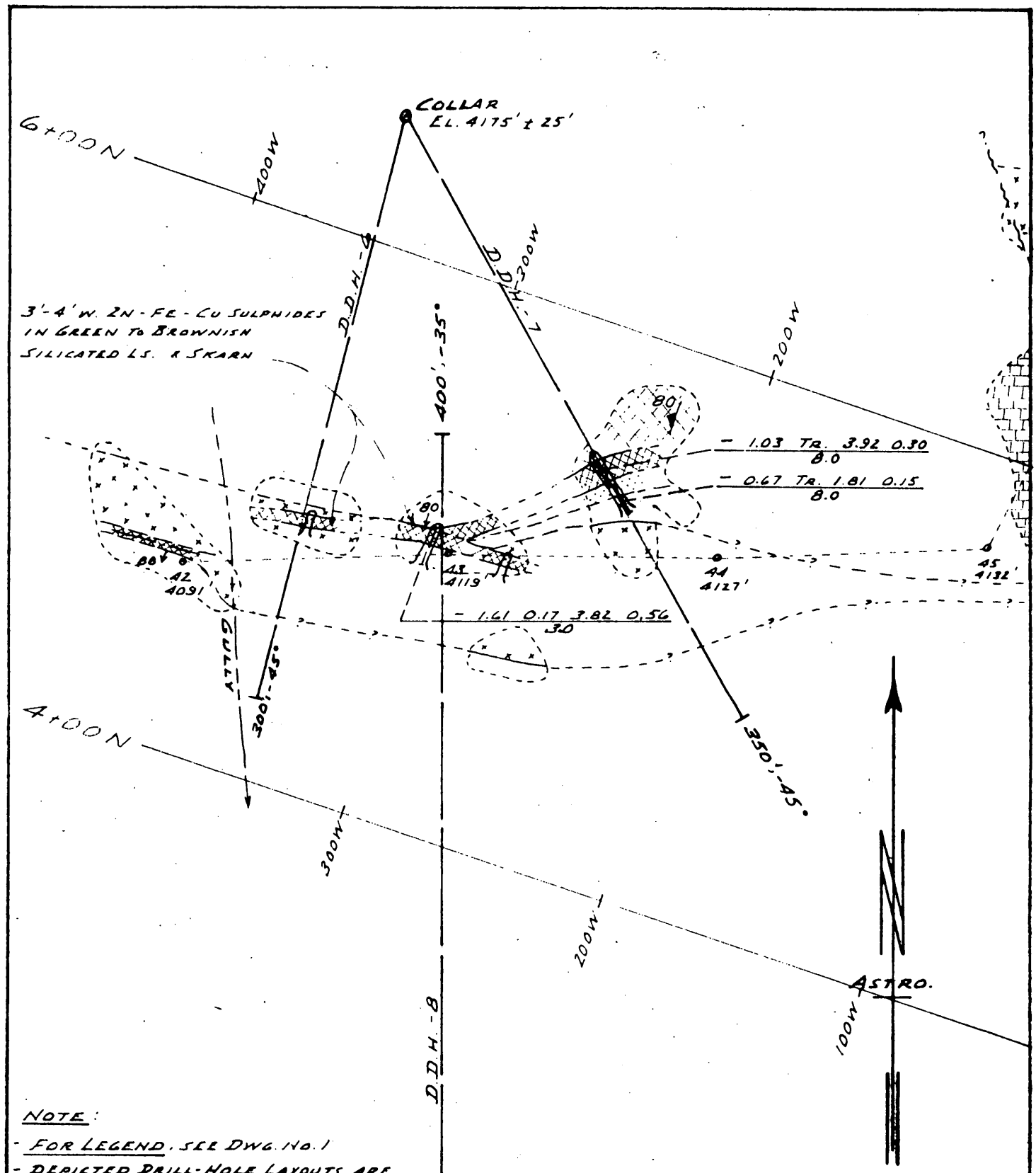


NOTE:

- FOR LEGEND, SEE DWG. NO. 1
- DEPICTED DRILL-HOLE LAYOUTS ARE BASED ON THE 1968 GEOLOGICAL TRAVERSE DATA AND ARE SUBJECT TO RE-LOCATION ON THE GROUND.

ASSAYS: AU. OZ/T: AG. OZ/T: PB. %: ZN. %: CU. %
WIDTH. FT.

DRILLING OBJECTIVES: EXPLORATION OF DEPTH EXTENSIONS OF MINERALIZATION ALONG UPPER CONTACT OF E-W DYKE AND FOR POSSIBLE PARALLEL (CONTACT ?) ZONES.

FIG. 5-R.

DIAMOND DRILL HOLE LAYOUTS

LOWER N-2 ZONE

ALASKAMIN-BOWSER CR. PROSPECT

SCALE: 1" = 50'

APRIL, 1971
& JUNE, 1971

W.M. SHARP, P.ENG.

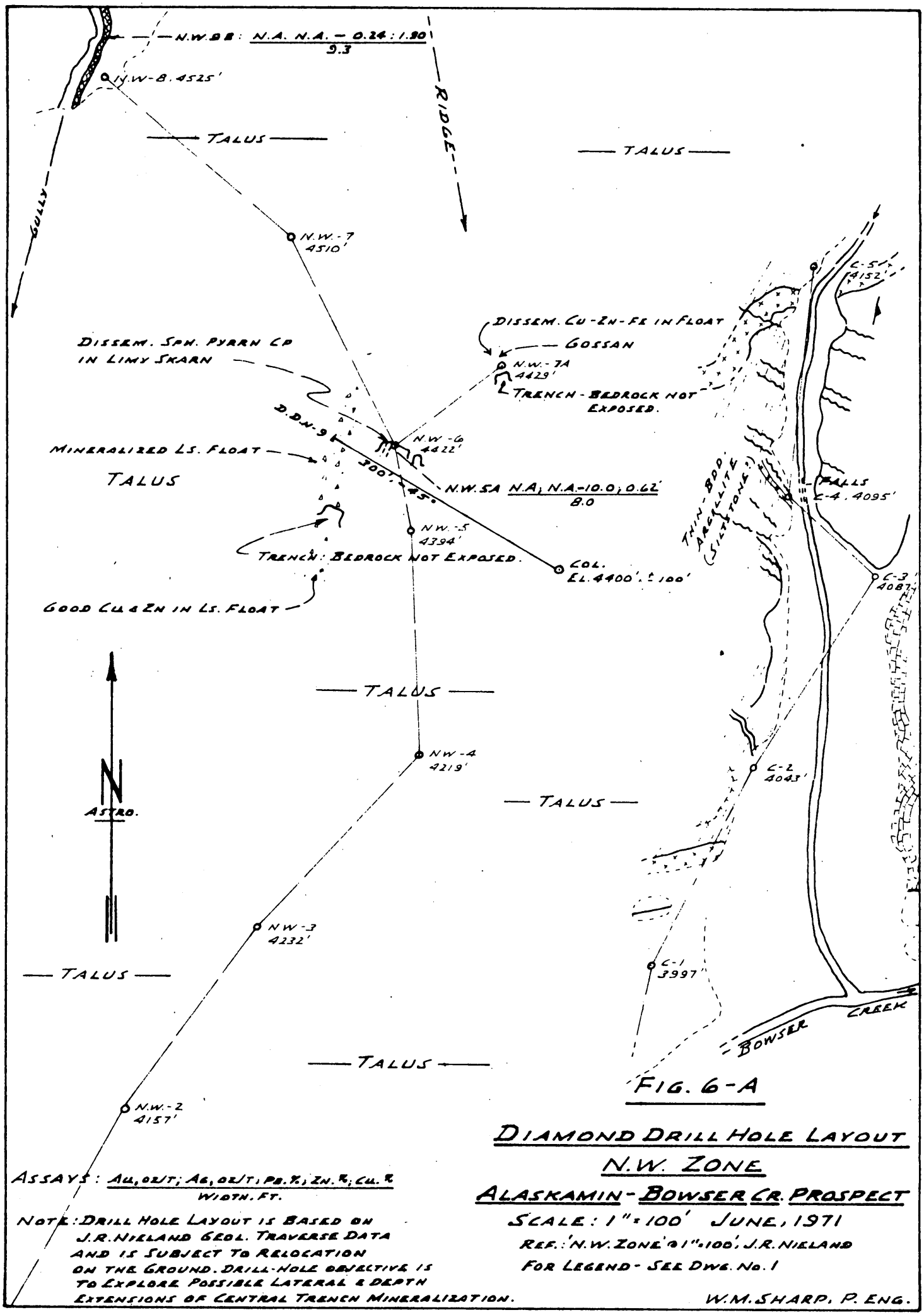


FIG. 6-A

DIAMOND DRILL HOLE LAYOUT
N.W. ZONE
ALASKAMIN - BOWSER CR. PROSPECT

SCALE: 1" = 100' JUNE, 1971

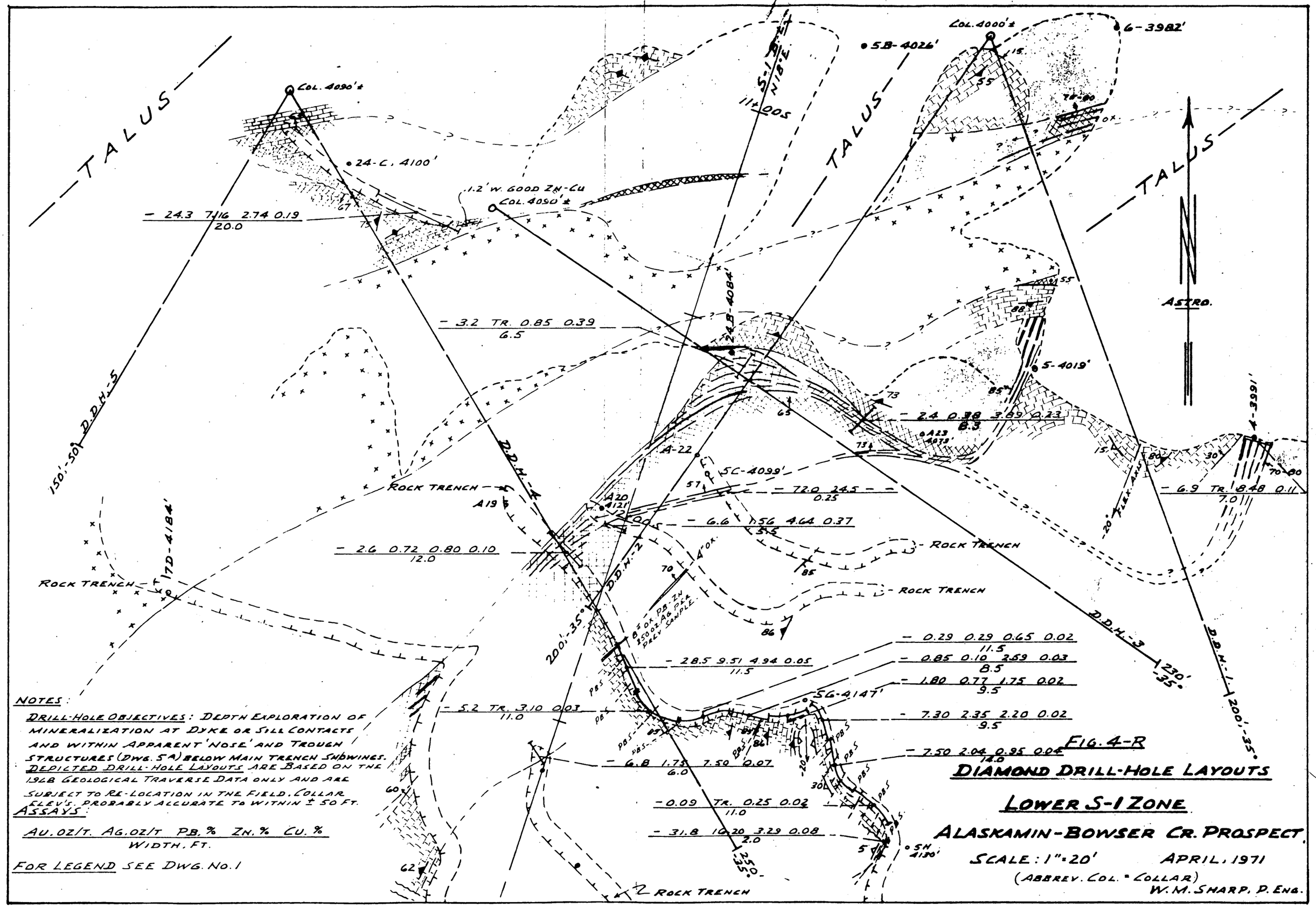
REF.: 'N.W. ZONE' @ 1" = 100', J.R. NIELAND

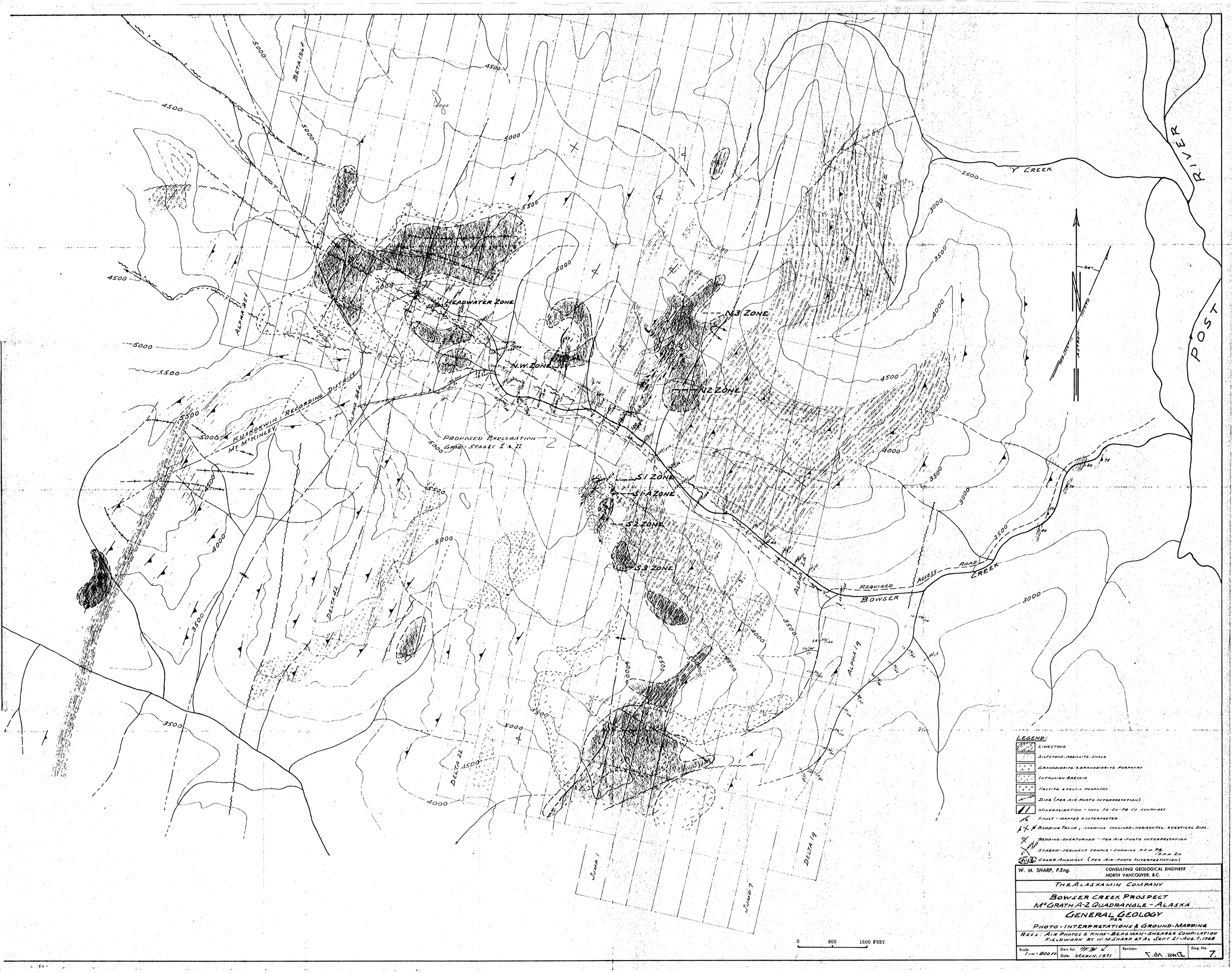
FOR LEGEND - SEE DWG. No. 1

ASSAYS: AU, OZ/T; AG, OZ/T; PB. %; ZN. %; CU. %
WIDTH. FT.

NOTE: DRILL HOLE LAYOUT IS BASED ON J.R. NIELAND GEOL. TRAVERSE DATA AND IS SUBJECT TO RELOCATION ON THE GROUND. DRILL-HOLE OBJECTIVE IS TO EXPLORE POSSIBLE LATERAL & DEPTH EXTENSIONS OF CENTRAL TRENCH MINERALIZATION.

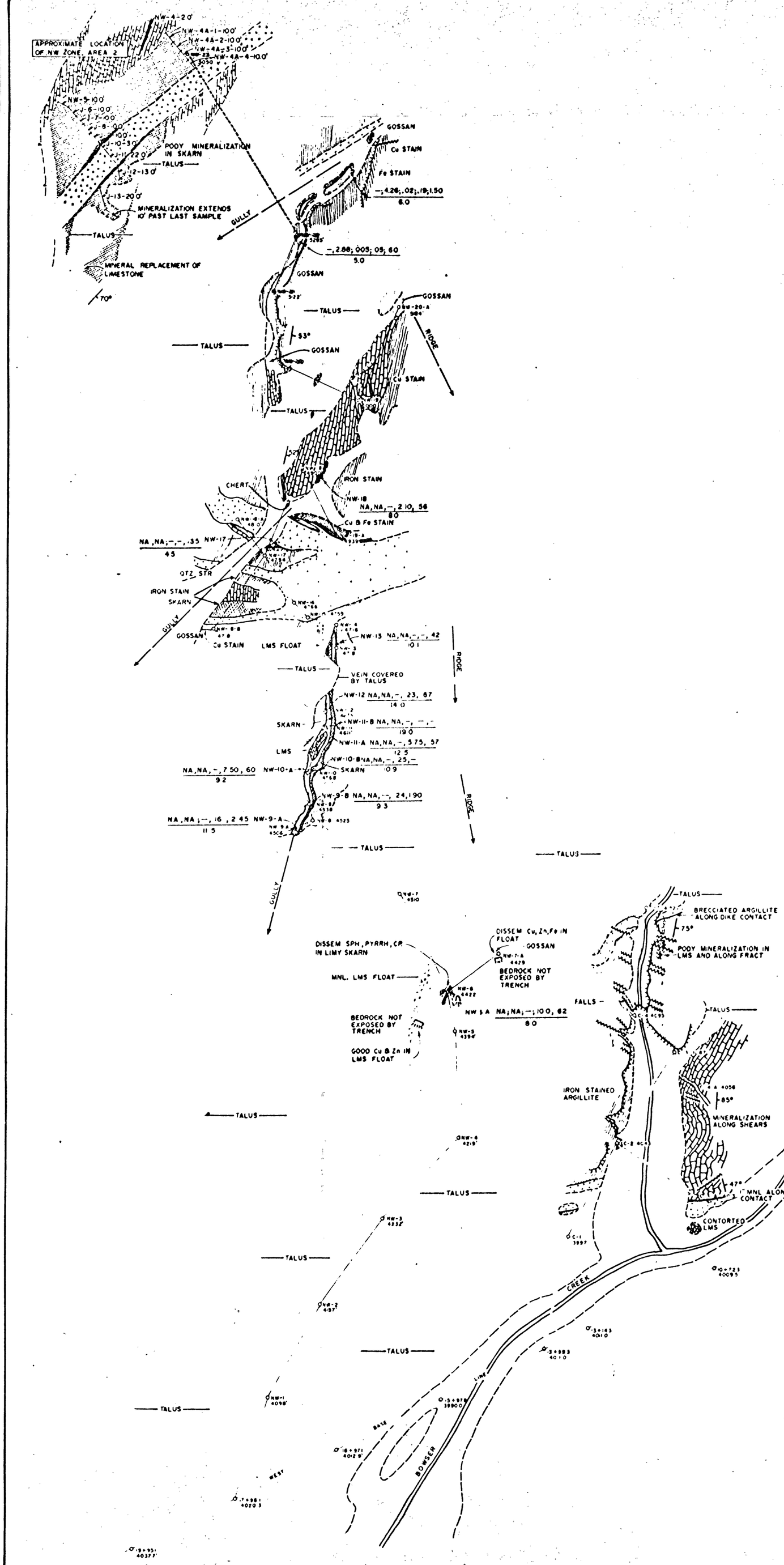
W.M. SHARP, P. ENG.


TALUS
TALUS
TALUS
COL. 4090'±
24-C, 4100'
1.2' W. GOOD ZN-CU
COL. 4050'±
COL. 4000'±
6-3982'
5B-4026'
5-1 ZONE
NIBE
11+00S
24-4084'
5-4019'
4-3991'
ASTRO.
N
- 24.3 7.16 2.74 0.19
20.0
- 3.2 TR. 0.85 0.39
6.5
- 2.4 0.38 3.89 0.23
8.3
A23
4079'
A-22
5C-4099'
- 72.0 24.5
0.25
- 6.6 1.56 4.64 0.37
5.5
- 6.9 TR. 8.48 0.11
7.0
- 2.6 0.72 0.80 0.10
12.0
- 28.5 9.51 4.94 0.05
11.5
- 0.29 0.29 0.65 0.02
11.5
- 0.85 0.10 2.69 0.03
8.5
- 1.80 0.77 1.75 0.02
9.5
- 7.30 2.35 2.20 0.02
9.5
- 7.50 2.04 0.95 0.04
14.0
- 5.2 TR. 3.10 0.03
11.0
- 6.8 1.75 7.50 0.07
6.0
- 0.09 TR. 0.25 0.02
11.0
- 31.8 10.20 3.29 0.08
2.0
5G-4147'
5H
4130'
ROCK TRENCH
ROCK TRENCH
ROCK TRENCH
ROCK TRENCH
ROCK TRENCH
A19
A20
4121'
D.D.H.-5
D.D.H.-4
D.D.H.-2
D.D.H.-3
D.D.H.-1
7D-4184'
150'-50°
200'-35°
230'-35°
200'-35°
250'-35°
20° FLEX. AXIS
PBS
NOTES:
DRILL-HOLE OBJECTIVES: DEPTH EXPLORATION OF MINERALIZATION AT DYKE OR SILL CONTACTS AND WITHIN APPARENT 'NOSE' AND TROUGH STRUCTURES (DWG. 5A) BELOW MAIN TRENCH SHOWINGS.
DEPICTED DRILL-HOLE LAYOUTS ARE BASED ON THE 1968 GEOLOGICAL TRAVERSE DATA ONLY AND ARE SUBJECT TO RE-LOCATION IN THE FIELD. COLLAR ELEV'S. PROBABLY ACCURATE TO WITHIN ± 50 FT.
ASSAYS:
AU. OZ/T. AG. OZ/T PB. % ZN. % CU. %
WIDTH, FT.
FOR LEGEND SEE DWG. No. 1
FIG. 4-R
DIAMOND DRILL-HOLE LAYOUTS
LOWER S-1 ZONE
ALASKAMIN-BOWSER CR. PROSPECT
SCALE: 1" = 20'
APRIL, 1971
(ABBREV. COL. = COLLAR)
W. M. SHARP, P. ENG.


BETA 19-F
ALPHA 25-F
ALPHA 24-F
DELTA 22
DELTA 22
DELTA 19
ALPHA 19
JUMP 1
JUMP 7
KUSKOKWIM RECORDING DISTRICT
MT. McKINLEY
HEADWATER ZONE
N.W. ZONE
N.3 ZONE
N.2 ZONE
S.1 ZONE
S.1-A ZONE
S.2 ZONE
S.3 ZONE
PROPOSED EXPLORATION GRID - STAGES I & II
REQUIRED ACCESS ROAD
BOWSER CREEK
'Y' CREEK
POST RIVER
MAGNETIC NORTH
LEGEND:
LIMESTONE
SILTSTONE, ARGILLITE, SHALE
GRANODIORITE & GRANODIORITE PORPHYRY
INTRUSION BRECCIA
FELSITE & FELSIC PORPHYRY
DIKE (PER AIR-PHOTO INTERPRETATION)
MINERALIZATION - INCL. FE-ZN-PB CU SULPHIDES
FAULT - MAPPED & INTERPRETED
BEDDING TREND; SHOWING INCLINED, HORIZONTAL, & VERTICAL DIPS.
BEDDING OVERTURNED - PER AIR-PHOTO INTERPRETATION
STREAM-SEDIMENT SAMPLE - SHOWING P.P.M. PB / P.P.M. ZN
COLOR ANOMALY (PER AIR-PHOTO INTERPRETATION)
0 800 1600 FEET
W. M. SHARP, P.Eng.
CONSULTING GEOLOGICAL ENGINEER
NORTH VANCOUVER, B.C.
THE ALASKAMIN COMPANY
BOWSER CREEK PROSPECT
McGRATH A-2 QUADRANGLE - ALASKA
GENERAL GEOLOGY
PER
PHOTO-INTERPRETATIONS & GROUND-MAPPING
REFS: AIR PHOTOS & KNOX-BERGMAN-SHEARER COMPILATION
FIELDWORK BY W.M. SHARP ET AL SEPT. 21-AUG. 7, 1968
Scale: 1 IN = 800 FT
Dwn. by: W.M.S.
Date: MARCH, 1971
Revision:
Dwg. No. 7.

NW ZONE

Alaskamin Project
Bowser Creek
Post River Area, Alaska



LIMESTONE (LMS)

ARGILLITE

SKARN: EPIDOTE, CALCITE, CLINOPYROXENE, CHLORITE, QUARTZ, ETC.

FELSITE (DIKES, SILLS, ETC) GRANODIORITE PORPHYRY.

INTRUSIVE BRECCIA

FAULT / RANDOM FRACTURES

52° BEDDING

MINERALIZATION

MOILED OR CHIPPED SAMPLE

NW-11-B SAMPLE NUMBER

PREPARED BY J R NELAND
FOR THE ALASKAMIN CO

24° MAGNETIC TRUE

0 50 100 200 300
SCALE IN FEET

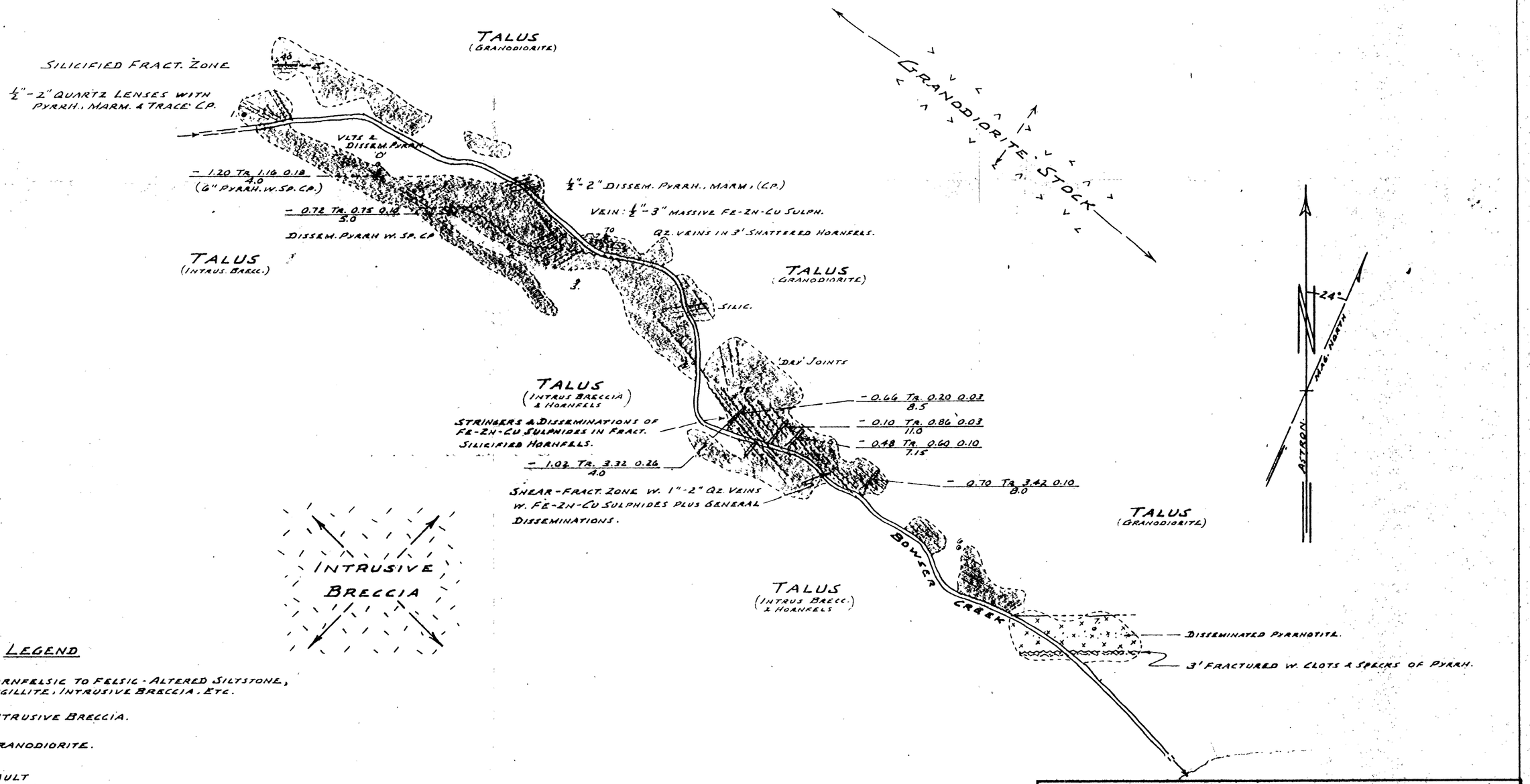
ASSAYS. Au, oz/ton, Ag, oz/ton, Pb %, Zn %, Cu %
Width, Feet

NA — NOT ASSAYED FOR
—, — LESS THAN 01%

THE ALASKAMIN COMPANY

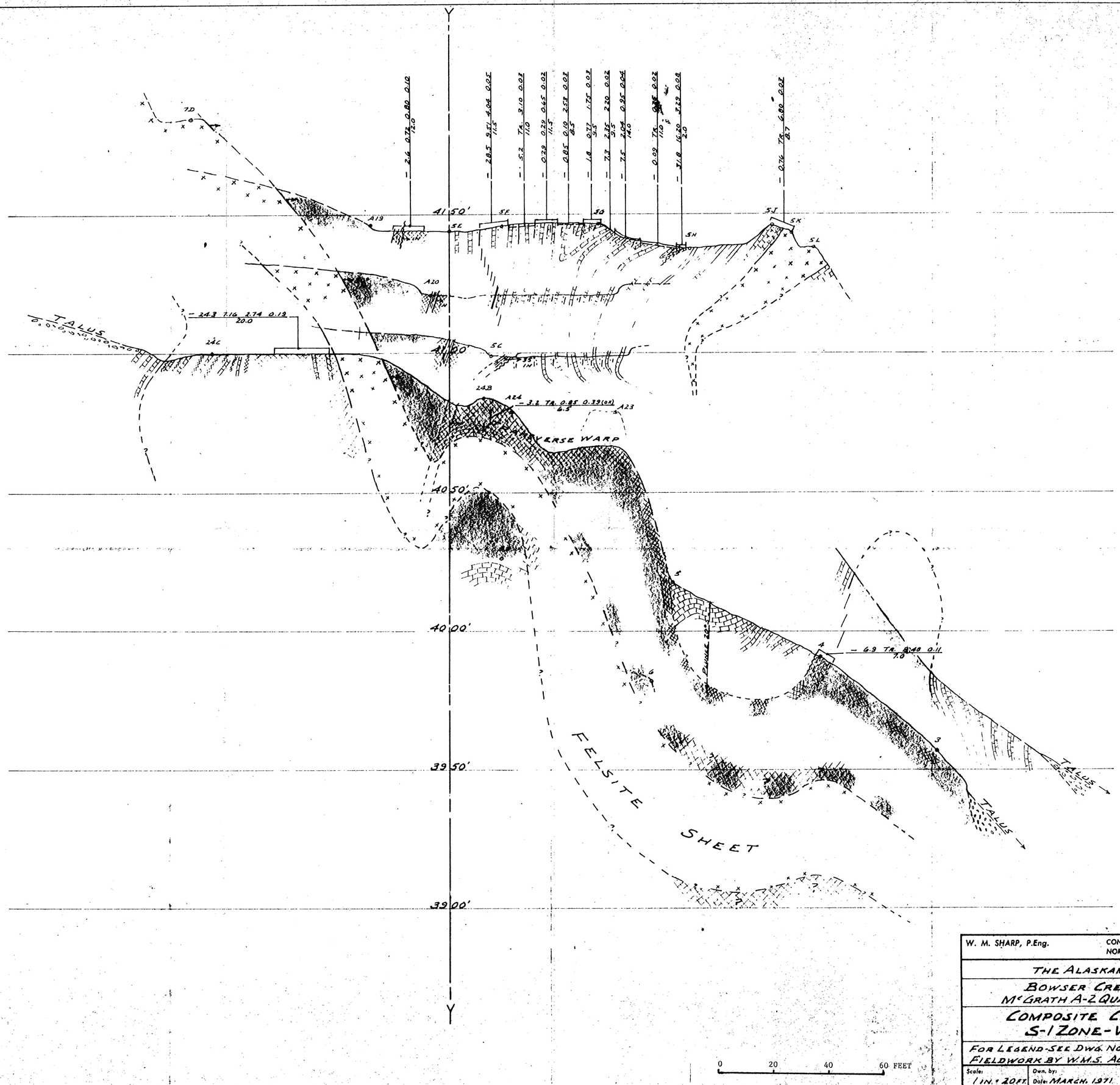
Portland, Oregon

N.W. ZONE



W. M. SHARP, P.Eng.	CONSULTING GEOLOGICAL ENGINEER NORTH VANCOUVER, B.C.
THE ALASKAMIN COMPANY	
BOWSER CREEK PROSPECT McGRATH A-2 QUADRANGLE ALASKA	
DETAILED GEOLOGY & SAMPLING HEADWATER ZONE	
FIELDWORK BY W.M.S. AUG 21-SEP. 7, 1968	

Scale:	Dwn. by:	Revision:	Dwg. No.
1 IN. = 50 FT.	Date: MARCH, 1971	J. OH. JWC.	6.



W. M. SHARP, P.Eng.	CONSULTING GEOLOGICAL ENGINEER NORTH VANCOUVER, B.C.

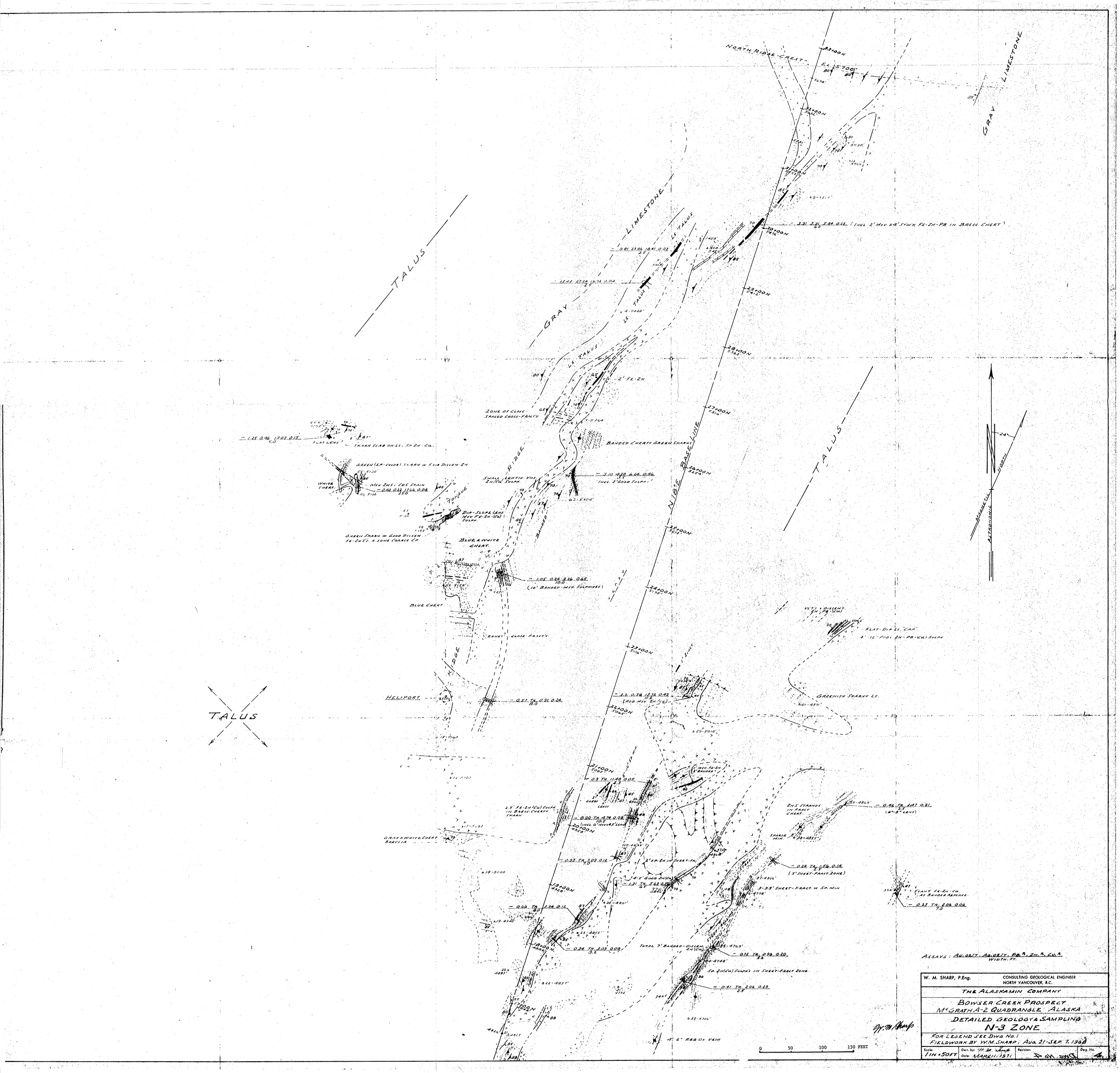
THE ALASKAMIN COMPANY

BOWSER CREEK PROSPECT
McGRATH A-2 QUADRANGLE, ALASKA

COMPOSITE CROSS-SECTION
S-1 ZONE-VIEWED N18°E

FOR LEGEND-SEE DWG. NO. 1
FIELDWORK BY W.M.S. AUG. 21-SEP. 7, 1968

Scale:	Dwn. by:	Revisions	Dwg. No.
1 IN. = 20 FT.	Date: MARCH, 1971	DWG NO. 2	5.



ASSAYS: AU. OZ/T. AG. OZ/T. PB %. ZN %. CU %. WIDTH. FT.

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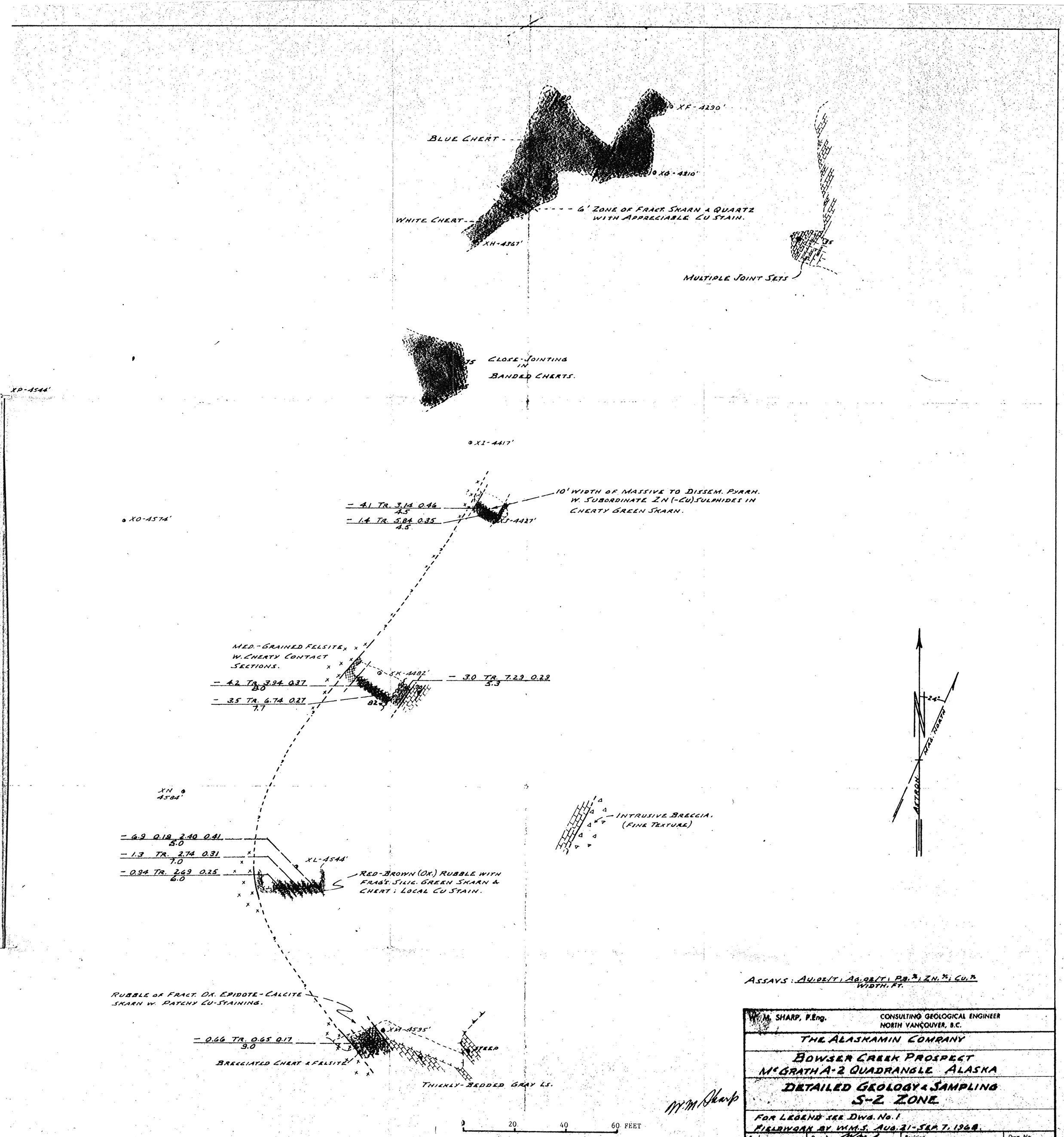
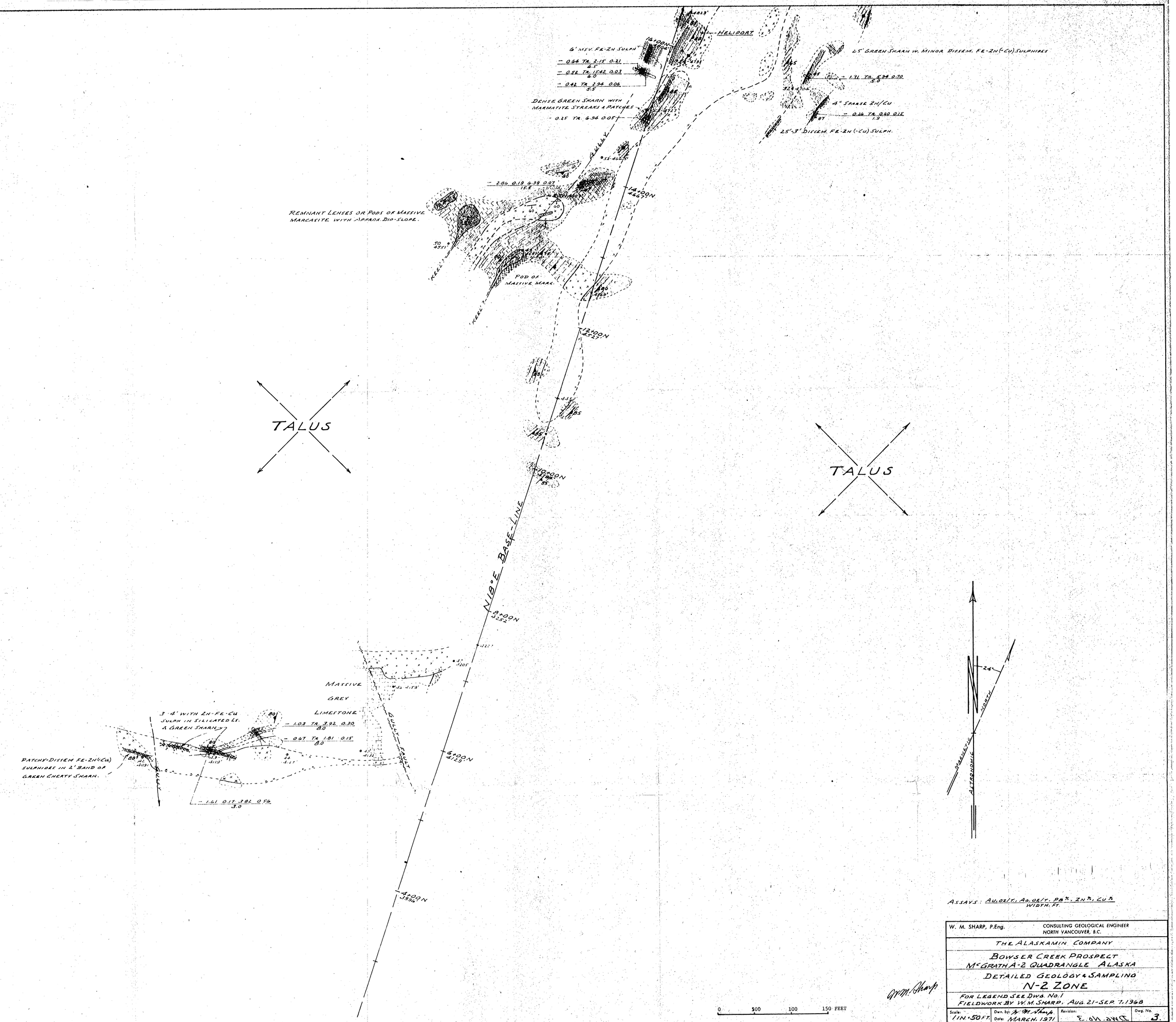
THE ALASKAMIN COMPANY	
BOWSER CREEK PROSPECT McGRATH A-2 QUADRANGLE ALASKA	
DETAILED GEOLOGY & SAMPLING N-3 ZONE	
FOR LEGEND SEE DWG No. 1 FIELDWORK BY W.M. SHARP, AUG. 21-SEP. 7, 1968	
Scale: 1 IN = 50 FT	Dwn. by: W. M. Sharp Date: MARCH, 1971 Revision: Dwg. No. 4



ASSAYS: AU.OZ/T; AG.OZ/T; PB.%; ZN.%; CU.%
WIDTH, FT.

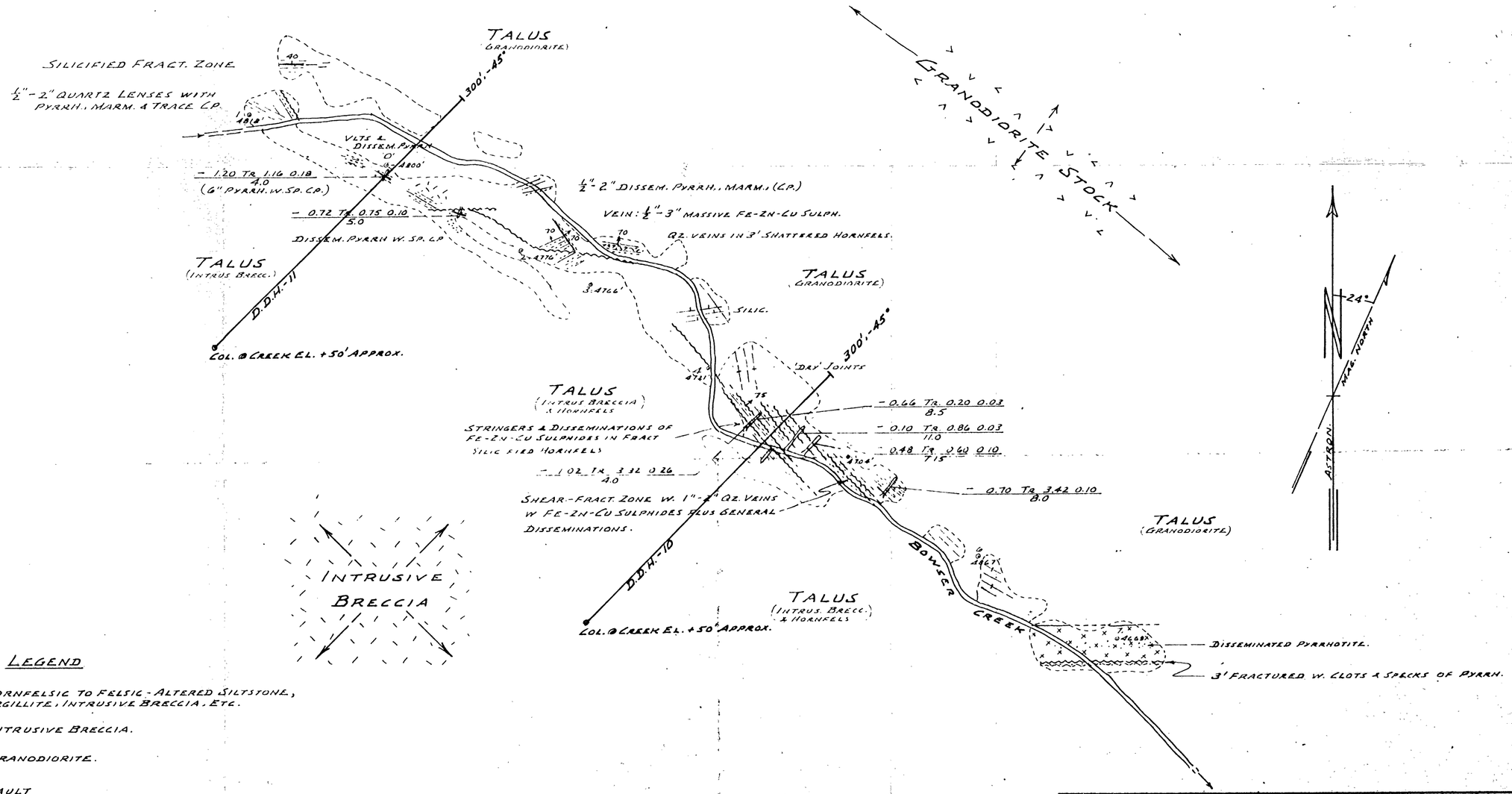
W. M. SHARP, P.Eng.	CONSULTING GEOLOGICAL ENGINEER NORTH VANCOUVER, B.C.		
THE ALASKAMIN COMPANY			
BOWSER CREEK PROSPECT McGRATH A-2 QUADRANGLE ALASKA			
DETAILED GEOLOGY & SAMPLING S-2 ZONE			
FOR LEGEND SEE DWG. No. 1 FIELDWORK BY WM.S. AUG. 21-SEP. 7, 1968.			
Scale: 1 IN. = 20 FT.	Dwn. by: W.M.R. Date: MARCH, 1971	Revision: Dwg. No. 5	Dwg. No. 2.



ASSAYS: AU.OZ/T. AG.OZ/T. PB%. ZN%. CU%
WIDTH. FT.

W. M. SHARP, P.Eng.	CONSULTING GEOLOGICAL ENGINEER NORTH VANCOUVER, B.C.
THE ALASKAMIN COMPANY	
BOWSER CREEK PROSPECT McGRATH A-2 QUADRANGLE ALASKA	
DETAILED GEOLOGY & SAMPLING N-2 ZONE	
FOR LEGEND SEE DWG. No. 1 FIELDWORK BY W.M. SHARP, AUG. 21-SEP. 7, 1968	
Scale: 1 IN. = 50 FT.	Dwn. by: W. M. Sharp Date: MARCH, 1971
Revision: E.O.M. DWG. No. 3	Dwg. No. 3.

W.M. Sharp



LEGEND

- HORNFELSIC TO FELSIC-ALTERED SILTSTONE, ARGILLITE, INTRUSIVE BRECCIA, ETC.
- INTRUSIVE BRECCIA.
- GRANODIORITE.
- FAULT
- JOINT, SLIP-FRACTURE
- DISSEMINATED SULPHIDES ON FRACTURE
- VEIN, VEINLET, DISSEMINATION (SULPHIDES) (VN.) (VLT) (DISSEM) (SULPH)
- TRENCH
- TRAVERSE STATION (BRUNTON-TAPE)

PYRRH. = PYRRHOTITE
MARM. = MARMATITE
CP. = CHALCOPYRITE
SP. = SPARSE

NOTE:

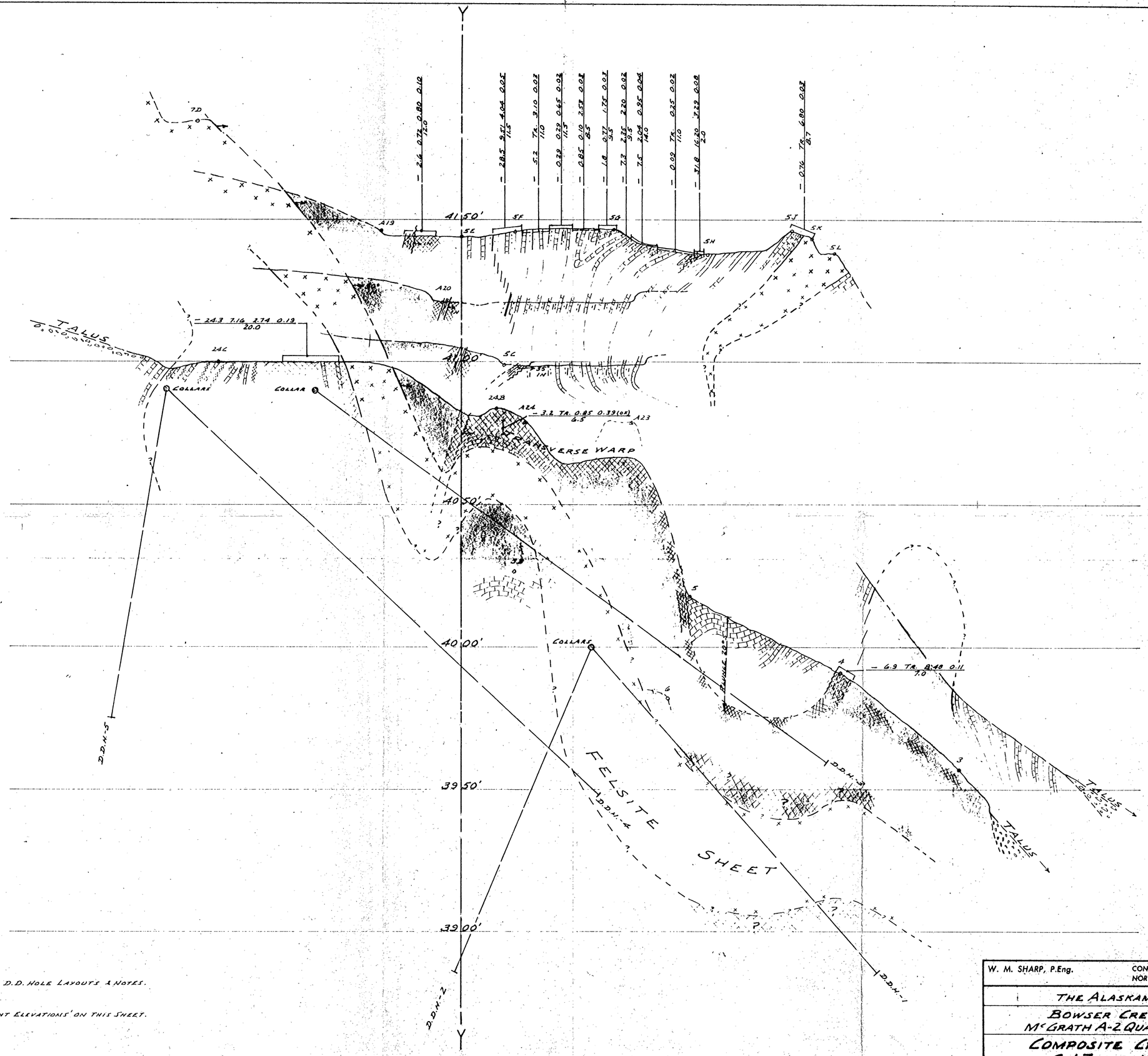
DRILL-HOLE LAYOUTS ARE BASED ON THE 1968 GEOLOGICAL TRAVERSE & CURRENT PHOTOGEOLOGICAL INTERPRETATIONS AND ARE SUBJECT TO RE-LOCATION ON THE GROUND IN ACCORDANCE WITH LOCAL CONDITIONS OF TOPOGRAPHY & OVERBURDEN.

DRILL-HOLE OBJECTIVE: TO EXPLORE GENERAL ZONE OF FRACTURING & MINERALIZATION AT DEPTH ALONG N.E. MARGIN OF INTRUSIVE BRECCIA BODY.

ASSAYS: AU, OZ/T; AG, OZ/T; PB, %; ZN, %; CU, %
WIDTH'

ELEVATIONS PER R.M. KASEWETER, GEOL., TOPO. MAP OF JULY, 1968; PROBABLE ACCURACY WITHIN RANGE OF ±100'.

W. M. SHARP, P.Eng.	CONSULTING GEOLOGICAL ENGINEER NORTH VANCOUVER, B.C.
THE ALASKAMIN COMPANY	
BOWSER CREEK PROSPECT McGRATH A-2 QUADRANGLE ALASKA	
DIAMOND DRILL-HOLE LAYOUTS HEADWATER ZONE	
FIELDWORK BY W.M.S. AUG. 21-SEP. 7, 1968	
Scale: 1 IN. = 50 FT.	Dwn. by: W.M.A. Date: MARCH, 1971
Revision: D.D.H. DETAIL, JUNE/71	Dwg. No. 6A



NOTE:
SEE FIG. A-R FOR PLAN-VIEW OF D.D. HOLE LAYOUTS & NOTES.
FOR LEGEND SEE DWG. NO. 1.
D.D. HOLES ARE DEPICTED AS 'APPARENT ELEVATIONS' ON THIS SHEET.

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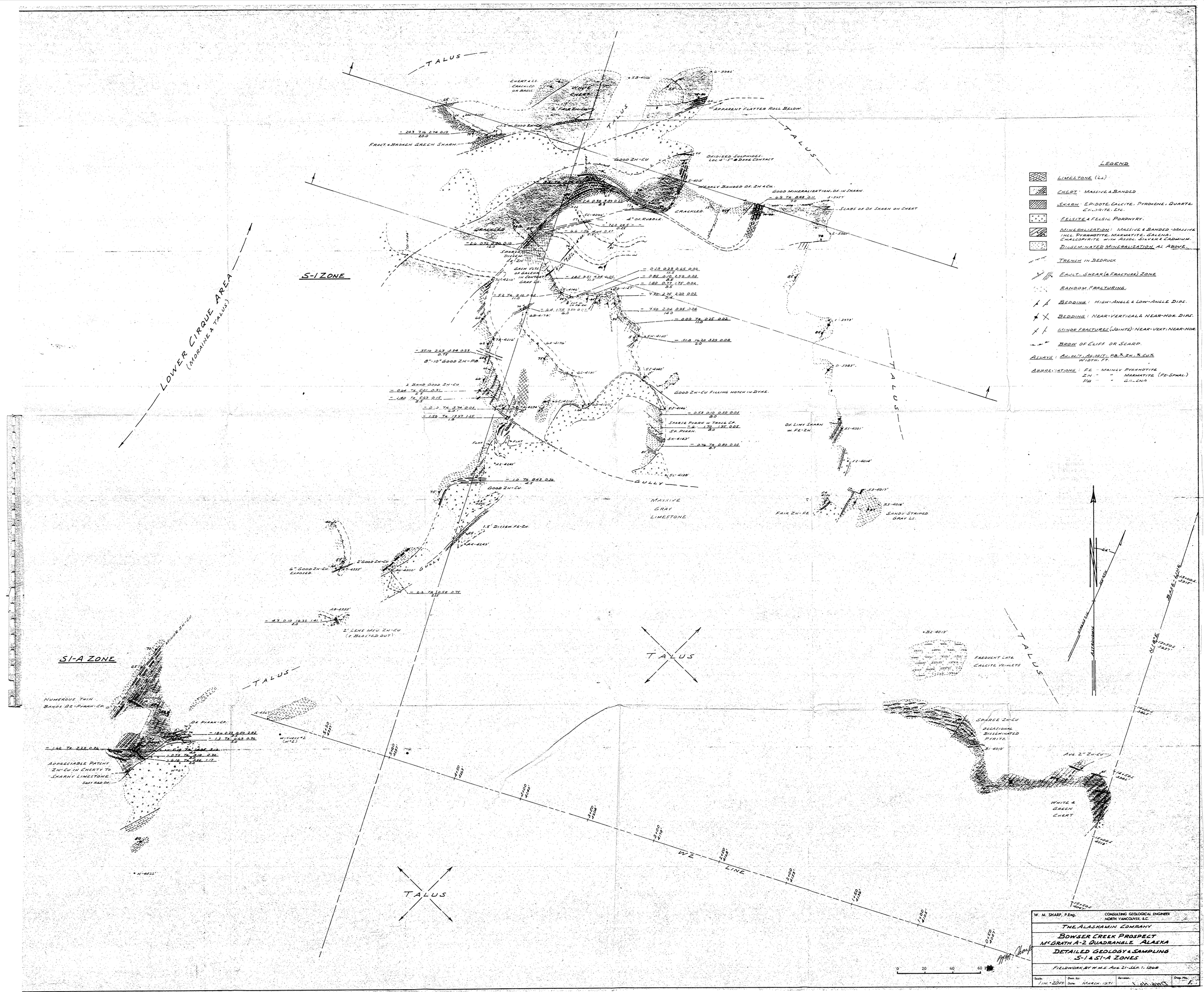
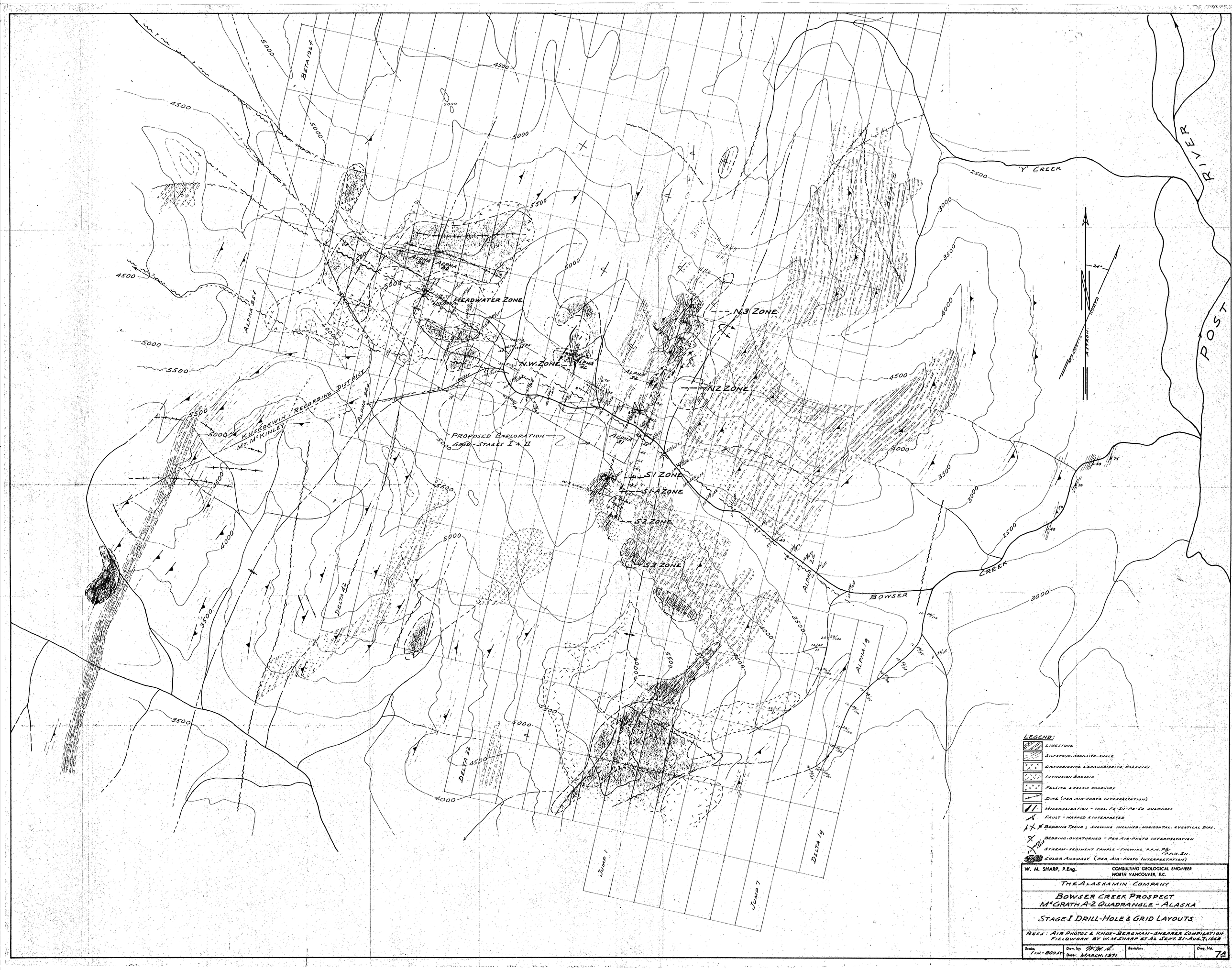
THE ALASKAMIN COMPANY	
BOWSER CREEK PROSPECT McGRATH A-2 QUADRANGLE, ALASKA	
COMPOSITE CROSS-SECTION S-1 ZONE - VIEWED N18°E	
FOR LEGEND - SEE DWG. NO. 1. FIELDWORK BY W.M.S. AUG. 21 - SEP. 7, 1968	
Scale: 1 IN. = 20 FT.	Dwn. by: Date: MARCH, 1971.
Revisions:	Dwg. No. 5A


LOWER CIRQUE AREA
(MORAINE & TALUS)
S-1 ZONE
S1-A ZONE
TALUS
GULLY
WZ LINE
LEGEND
LIMESTONE (LS.)
CHERT: MASSIVE & BANDED
SKARN: EPIDOTE, CALCITE, PYROXENE, QUARTZ, CHLORITE, ETC.
FELSITE & FELSIC PORPHYRY.
MINERALIZATION: MASSIVE & BANDED - MASSIVE INCL. PYRRHOTITE, MARMATITE, GALENA; CHALCOPYRITE WITH ASSOC. SILVER & CADMIUM.
DISSEMINATED MINERALIZATION AS ABOVE.
TRENCH IN BEDROCK
FAULT, SHEAR (& FRACTURE) ZONE
RANDOM FRACTURING.
BEDDING: HIGH-ANGLE & LOW-ANGLE DIPS.
BEDDING: NEAR-VERTICAL & NEAR-HOR. DIPS.
MINOR FRACTURES (JOINTS): NEAR-VERT. NEAR-HOR.
BROW OF CLIFF OR SCARP.
ASSAYS: AU OZ/T, AG OZ/T, PB %, ZN %, CU %
WIDTH: FT.
ABBREVIATIONS: FE - MAINLY PYRRHOTITE
ZN - " MARMATITE (FE-SPHAL.)
PB - " GALENA
APPARENT FLATTER ROLL BELOW.
FRACT. & BROKEN GREEN SKARN
DEFIDIZED SULPHIDES: LOC. 4'-5' @ DYKE CONTACT
WEAKLY BANDED OX. ZN & CU.
GOOD MINERALIZATION; OX. IN SKARN
SCABS OF OX SKARN ON CHERT
CRACKLED
4" OX. RUBBLE
SPARSE ZN DISSEM. FE-ZN
8"-10" GOOD ZN-PB
2 BAND GOOD ZN-CU
GOOD ZN-CU FILLING NOTCH IN DYKE.
SPARSE PYRRH W TRACE CP.
SP. PYRRH.
OX. LINY SKARN W. FE-ZN.
MASSIVE GRAY LIMESTONE
FAIR ZN-FE
SANDY STRIPED GRAY LS.
GOOD ZN-CU
1.5' DISSEM. FE-ZN
6" GOOD ZN-CU EXPOSED
2' GOOD ZN-CU
2' LENS MED ZN-CU (1 BLASTED OUT)
MINOR ZN-CU
NUMEROUS THIN BANDS QZ-PYRRH-CP.
OX PYRRH-CP.
APPRECIABLE PATCHY ZN-CU IN CHERTY TO SKARNY LIMESTONE.
FREQUENT LATE CALCITE VEINLETS
SPARSE ZN-CU OCCASIONAL DISSEMINATED PYRITE.
AVG. 2" ZN-CU
WHITE & GREEN CHERT
MAGNETIC
ASTRONOMIC
BASE LINE
0 20 40 60 FT.
W. M. SHARP, P.Eng.
CONSULTING GEOLOGICAL ENGINEER
NORTH VANCOUVER, B.C.
THE ALASKAMIN COMPANY
BOWSER CREEK PROSPECT
McGRATH A-2 QUADRANGLE ALASKA
DETAILED GEOLOGY & SAMPLING
S-1 & S1-A ZONES
FIELDWORK BY W.M.S. AUG. 21-SEP. 1, 1968
Scale: 1 IN. = 20 FT.
Dwn. by:
Date: MARCH, 1971
Revision:
Dwg. No.: 1


BETA 136 F
ALPHA 95 F
ALPHA 96
ALPHA 97
HEADWATER ZONE
N.W. ZONE
N.3 ZONE
N.2 ZONE
S.1 ZONE
S.1 A ZONE
S.2 ZONE
S.3 ZONE
PROPOSED EXPLORATION GRID - STAGES I & II
KUSKOKWIN RECORDING DISTRICT
MT. McKINLEY
ALPHA 94
ALPHA 32
ALPHA 31
ALPHA 24
ALPHA 19
DELTA 22
DELTA 19
JUMP 1
JUMP 7
BETA 12
BOWSER
CREEK
Y CREEK
POST
RIVER
MAGNETIC
ASTRON.
LEGEND:
LIMESTONE
SILTSTONE, ARGILLITE, SHALE
GRANODIORITE & GRANOSIORITE PORPHYRY
INTRUSION BRECCIA
FELSITE & FELSIC PORPHYRY
DIKE (PER AIR-PHOTO INTERPRETATION)
MINERALIZATION - INCL. FE-ZN-PB-CU SULPHIDES
FAULT - MAPPED & INTERPRETED
BEDDING TREND ; SHOWING INCLINED, HORIZONTAL, & VERTICAL DIPS.
BEDDING OVERTURNED - PER AIR-PHOTO INTERPRETATION
STREAM-SEDIMENT SAMPLE - SHOWING P.P.M. PB/P.P.M. ZN.
COLOR ANOMALY (PER AIR-PHOTO INTERPRETATION)
W. M. SHARP, P.Eng.
CONSULTING GEOLOGICAL ENGINEER
NORTH VANCOUVER, B.C.
THE ALASKAMIN COMPANY
BOWSER CREEK PROSPECT
McGRATH A-2 QUADRANGLE - ALASKA
STAGE I DRILL-HOLE & GRID LAYOUTS
REFS: AIR PHOTOS & KNOX-BERGMAN-SHEARER COMPILATION
FIELDWORK BY W.M.SHARP ET AL SEPT. 21-AUG. 7, 1968
Scale: 1 IN. = 800 FT.
Dwn. by: W.M.S.
Date: MARCH, 1971
Revision:
Dwg. No. 7A