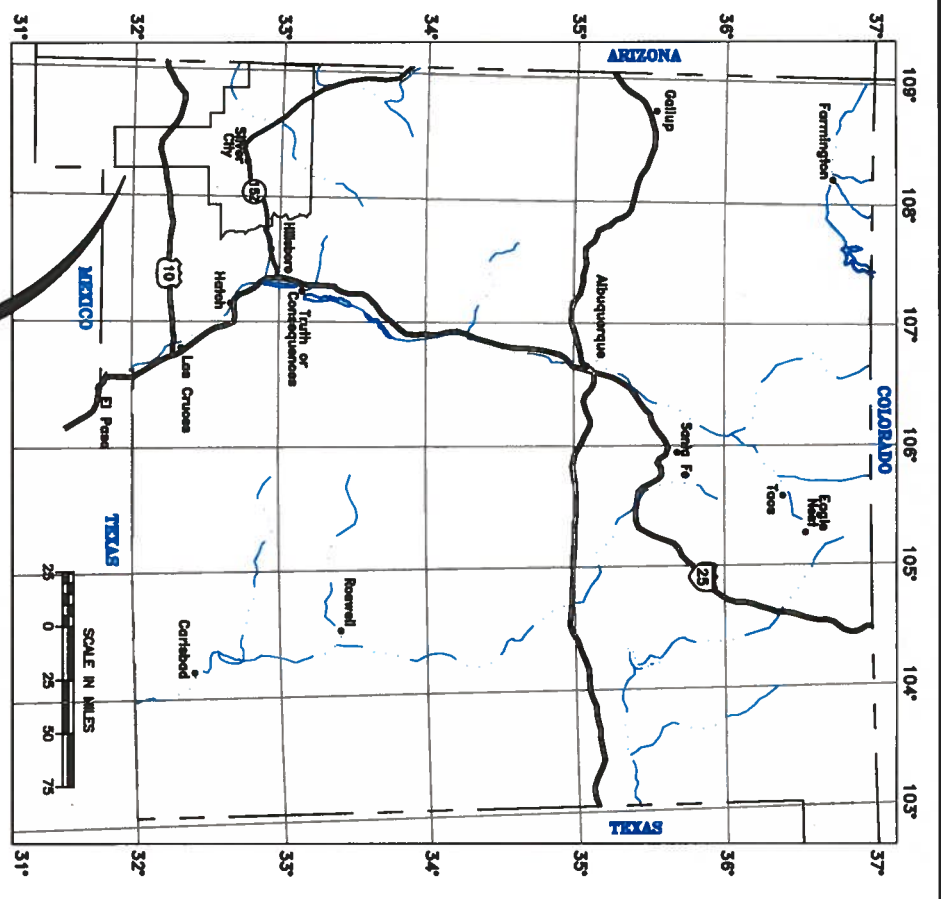
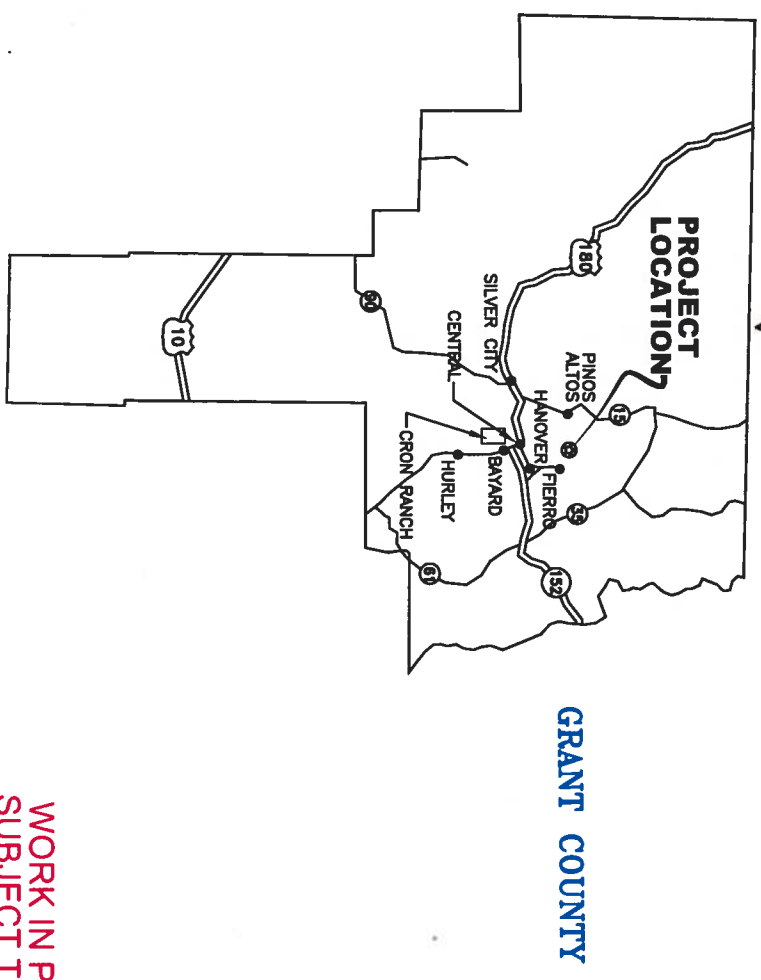


FIGURES

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TASK: 84



NEW MEXICO

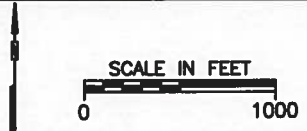


GRANT COUNTY

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FIGURE 1-1
SITE LOCATION MAP

PREPARED FOR



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8/4/2006 P:\Projects\200-Cobra\200103-Closed-closure-support\200103-AUTOCAD\Condition 84\200103-84_84a layout.dwg

PROJECT: 200103	TASK: 84
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

**FIGURE 1-2
CONTINENTAL MINE FACILITY LAYOUT**

PREPARED FOR:




PROJECT: 200103
 PREPARED BY: TELESTO SOLUTIONS INCORPORATED
 TASK: 84

**FIGURE 3-1
 STRATIGRAPHIC COLUMN**

PREPARED FOR: 
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 SOURCE: HILLESLAND ET AL., 1995

ERA	PERIOD	DESCRIPTION	SYMBOL	FORMATION	PALEOZOIC						MESOZOIC	CENOZOIC
					ORDOVICIAN	SIL.	DEV.	MISS.	PENNSYLVANIAN	P.	CRETACEOUS	TERTIARY
		MAFIC TO FELSIC FLOWS AND TUFFS		VOLCANIC FLOWS & TUFF (0-1000 FT.)								
		ANDESITE BRECCIA WITH MINOR TUFFS AND EPICLASTIC UNITS		ANDESITE BRECCIA (0-500 FT.)								
		INTERBEDDED SANDSTONE AND SHALE WITH MINOR CONGLOMERATE	Kc	COLORADO FORMATION (+1000 FT.)								
		LAMINATED SHALE AND SILTSTONE	Kcsh	COLORADO FORMATION SHALE MEMBER								
		FINE-GRAINED QUARTZITE UPPER & LOWER SHALE UNITS	Kb	BEARTOOTH QUARTZITE (60-140 FT.)								
		RED SHALE OR SHALY LIMESTONE	Pa	ABO FORMATION (0-265 FT.)								
		IMPURE LIMESTONE INTERBEDDED WITH MINOR CALCAREOUS SHALE	Pis	SYRENA FORMATION (170-390 FT.)								
		LIMESTONE WITH MINOR SHALE; PARTING SHALE AT BASE	Plo	OSWALDO FORMATION (330-420 FT.)								
		CRINOIDAL LIMESTONE WITH MINOR ARGILLACEOUS LIMESTONE; NODULAR CHERT THROUGHOUT	Mil	LAKE VALLEY LIMESTONE (300-400 FT.)								
		UPPER NODULAR CALCAREOUS SHALE; LOWER BLACK FISSILE SHALE	Dp	PERCHA SHALE (230-315 FT.)								
		GRAY MASSIVE DOLOMITE, CHERTY	Sf	FUSSELMAN DOLOMITE (100-300 FT.)								
		LIGHT GRAY MASSIVE DOLOMITE	Om	MONTOKYA DOLOMITE (300-350 FT.)								
		THIN TO THICK BEDDED LIMESTONE AND DOLOMITE; CHERT MODULES IN UPPER PART	Oe	EL PASO LIMESTONE (500-520 FT.)								
		GRAY BROWN MASSIVE QUARTZITE	Cb	BLISS FORMATION (140-190 FT.)								
		PRECAMBRIAN GNEISS AND SCHIST		BLISS FORMATION (140-190 FT.) GNEISS & SCHIST								

DESCRIPTION

SYMBOL

FORMATION

PERIOD

ERA

SYMBOL COLUMN

PALEOZOIC

MAFIC TO FELSIC FLOWS AND TUFFS

ANDESITE BRECCIA WITH MINOR TUFFS AND EPICLASTIC UNITS

INTERBEDDED SANDSTONE AND SHALE WITH MINOR CONGLOMERATE

LAMINATED SHALE AND SILTSTONE

FINE-GRAINED QUARTZITE UPPER & LOWER SHALE UNITS

RED SHALE OR SHALY LIMESTONE

IMPURE LIMESTONE INTERBEDDED WITH MINOR CALCAREOUS SHALE

LIMESTONE WITH MINOR SHALE; PARTING SHALE AT BASE

CRINOIDAL LIMESTONE WITH MINOR ARGILLACEOUS LIMESTONE; NODULAR CHERT THROUGHOUT

UPPER NODULAR CALCAREOUS SHALE; LOWER BLACK FISSILE SHALE

GRAY MASSIVE DOLOMITE, CHERTY

LIGHT GRAY MASSIVE DOLOMITE

THIN TO THICK BEDDED LIMESTONE AND DOLOMITE; CHERT MODULES IN UPPER PART

GRAY BROWN MASSIVE QUARTZITE

PRECAMBRIAN GNEISS AND SCHIST

**VOLCANIC FLOWS & TUFF
(0-1000 FT.)**

**ANDESITE BRECCIA
(0-500 FT.)**

**COLORADO FORMATION
(+1000 FT.)**

**COLORADO FORMATION
SHALE MEMBER**

**BEARTOOTH QUARTZITE
(60-140 FT.)**

**ABO FORMATION
(0-265 FT.)**

**SYRENA FORMATION
(170-390 FT.)**

**OSWALDO FORMATION
(330-420 FT.)**

**LAKE VALLEY LIMESTONE
(300-400 FT.)**

**PERCHA SHALE
(230-315 FT.)**

**FUSSELMAN DOLOMITE
(100-300 FT.)**

**MONTOKYA DOLOMITE
(300-350 FT.)**

**EL PASO LIMESTONE
(500-520 FT.)**

**BLISS FORMATION
(140-190 FT.)**

**BLISS FORMATION
(140-190 FT.)
GNEISS & SCHIST**

?

?

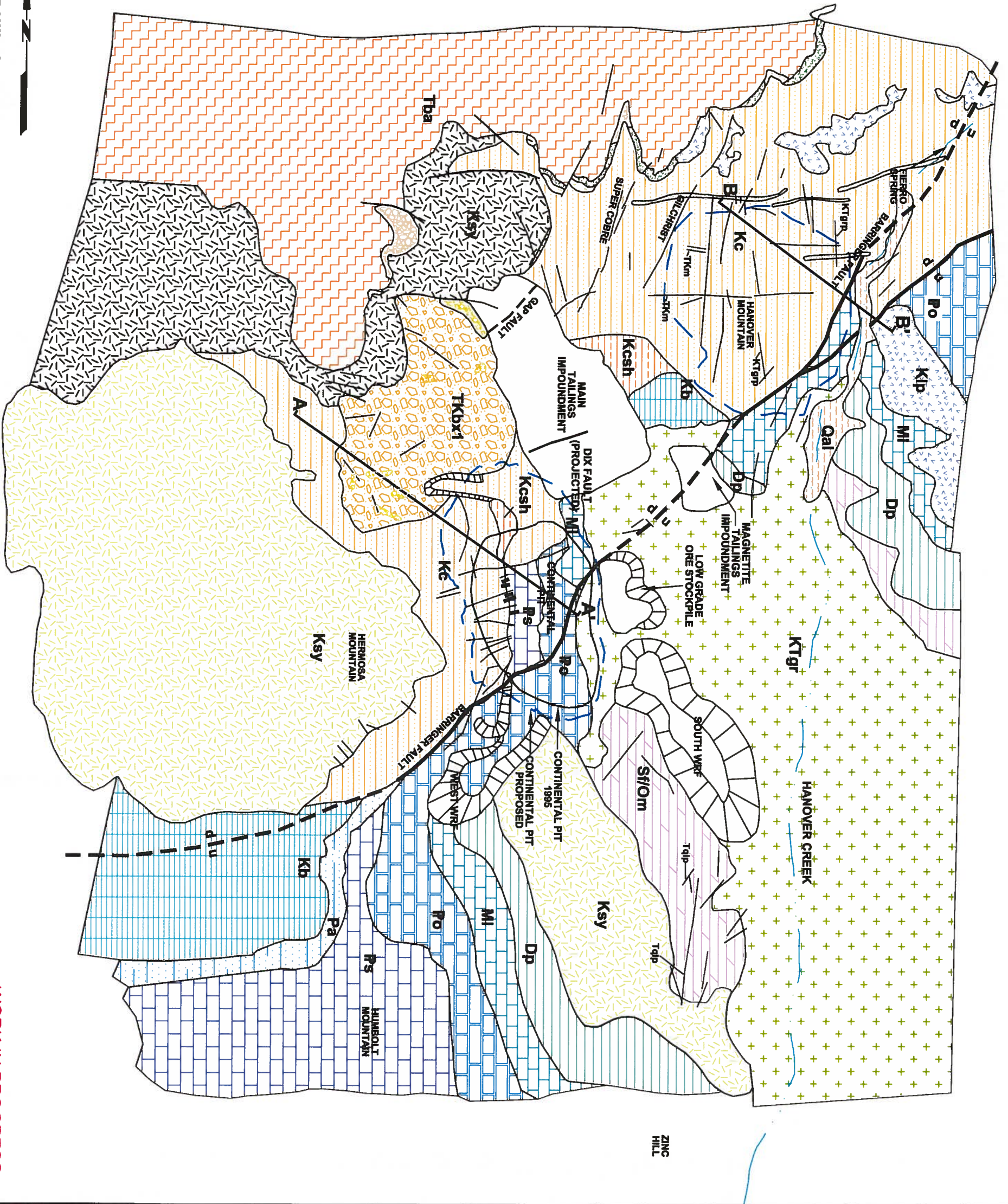
?

AQUITARD

?

PALEOZOIC
AQUIFER

?



(1995 Hillesland, et.al.)

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- LEGEND**
- QUATERNARY ALLUVIUM
 - BASALTIC ANDESITE FLOWS
 - CLAST-RICH CONTINENTAL BRECCIA PIPE
 - MATRIX-RICH CONTINENTAL BRECCIA PIPE
 - GRAVEL AND BOULDER DEPOSITS
- CRETACEOUS & TERTIARY INTRUSIVE ROCKS**
- RYOLITE TUFF
 - MAFIC DIKES
 - HANOVER-FIERRRO STOCK
 - GRANODIORITE PORPHYRY
 - SYENODIORITE PORPHYRY
 - HORNBLLENDE QUARTZ DIORITE
- PALEOZOIC & MESOZOIC SEDIMENTARY ROCKS**
- COLORADO FORMATION
 - COLORADO FORMATION, SHALE MEMBER
 - BEARTOOTH QUARTZITE
 - ABO FORMATION
 - SYRENA FORMATION
 - OSWALDO FORMATION
 - LAKE VALLEY LIMESTONE
 - PERCHA SHALE
 - FUSSELMAN AND MONTOYA DOLOMITES
 - EL PASO LIMESTONE
 - BLISS FORMATION
- FAULTS (DASHED WHERE APPROXIMATE)

FIGURE 3-2
GEOLOGIC MAP OF THE
CONTINENTAL MINE

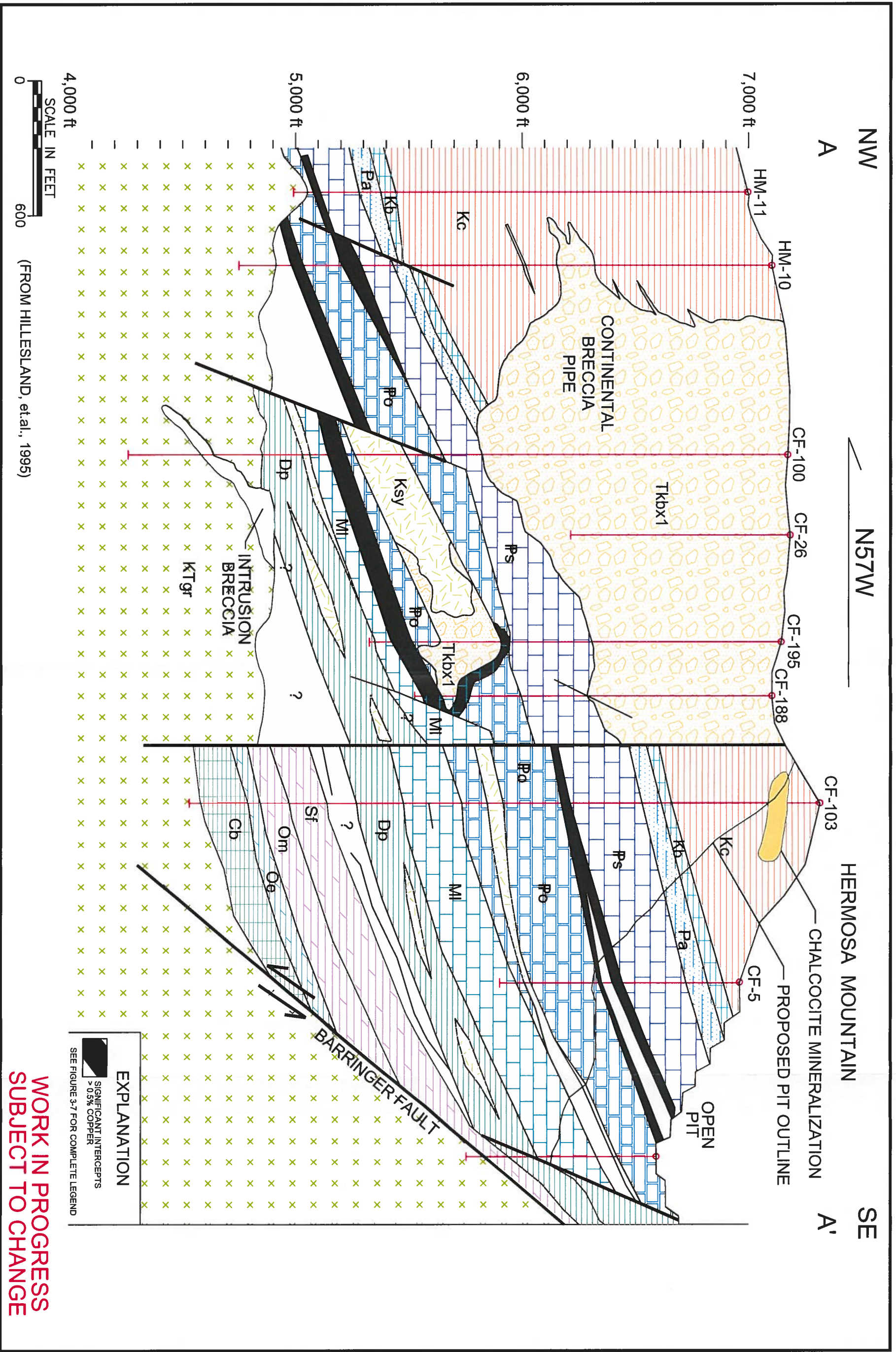
PROJECT: 2001103
TASK: 84
TELESTO
SOLUTIONS INCORPORATED

PREPARED FOR:
Chrysope

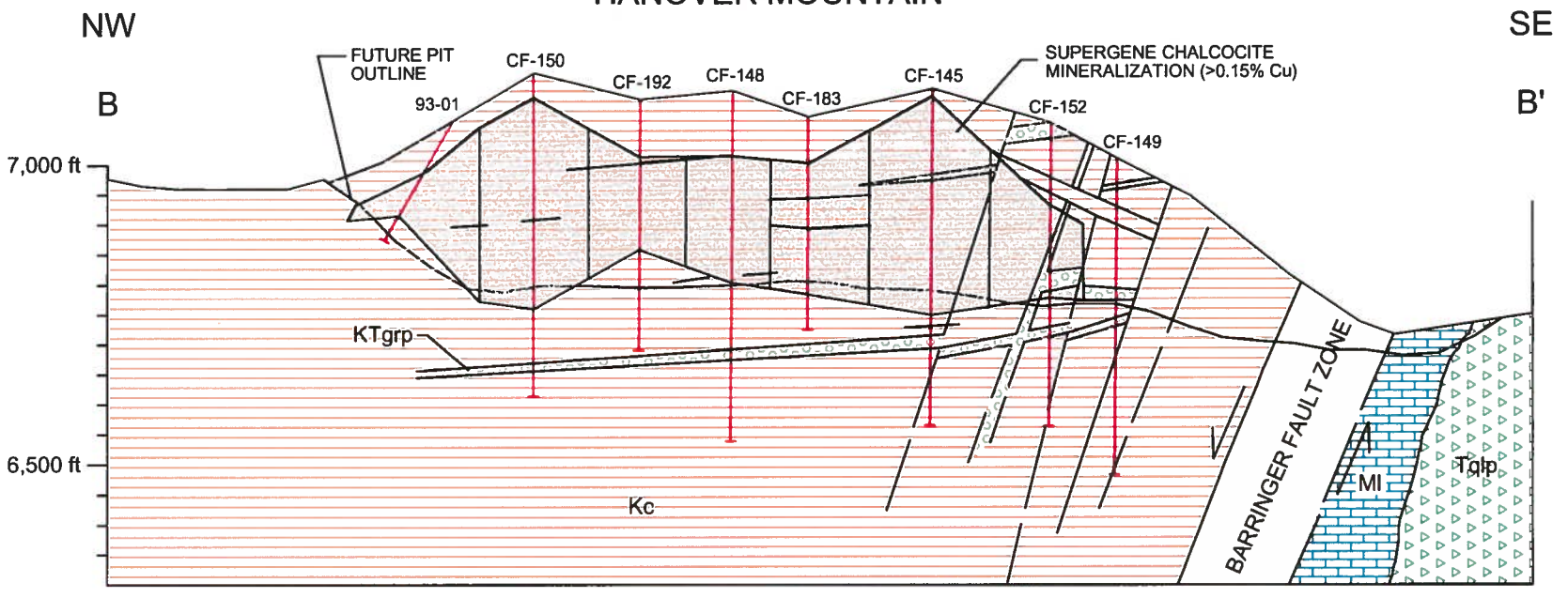
PROJECT: 200103 TASK: 84
 PREPARED BY: TELESTO SOLUTIONS INCORPORATED

FIGURE 3-3
 GEOLOGIC CROSS-SECTION A-A'

PREPARED FOR:  



HANOVER MOUNTAIN



(FROM HILLESLAND, et.al., 1995)

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SUBJECT TO CHANGE**

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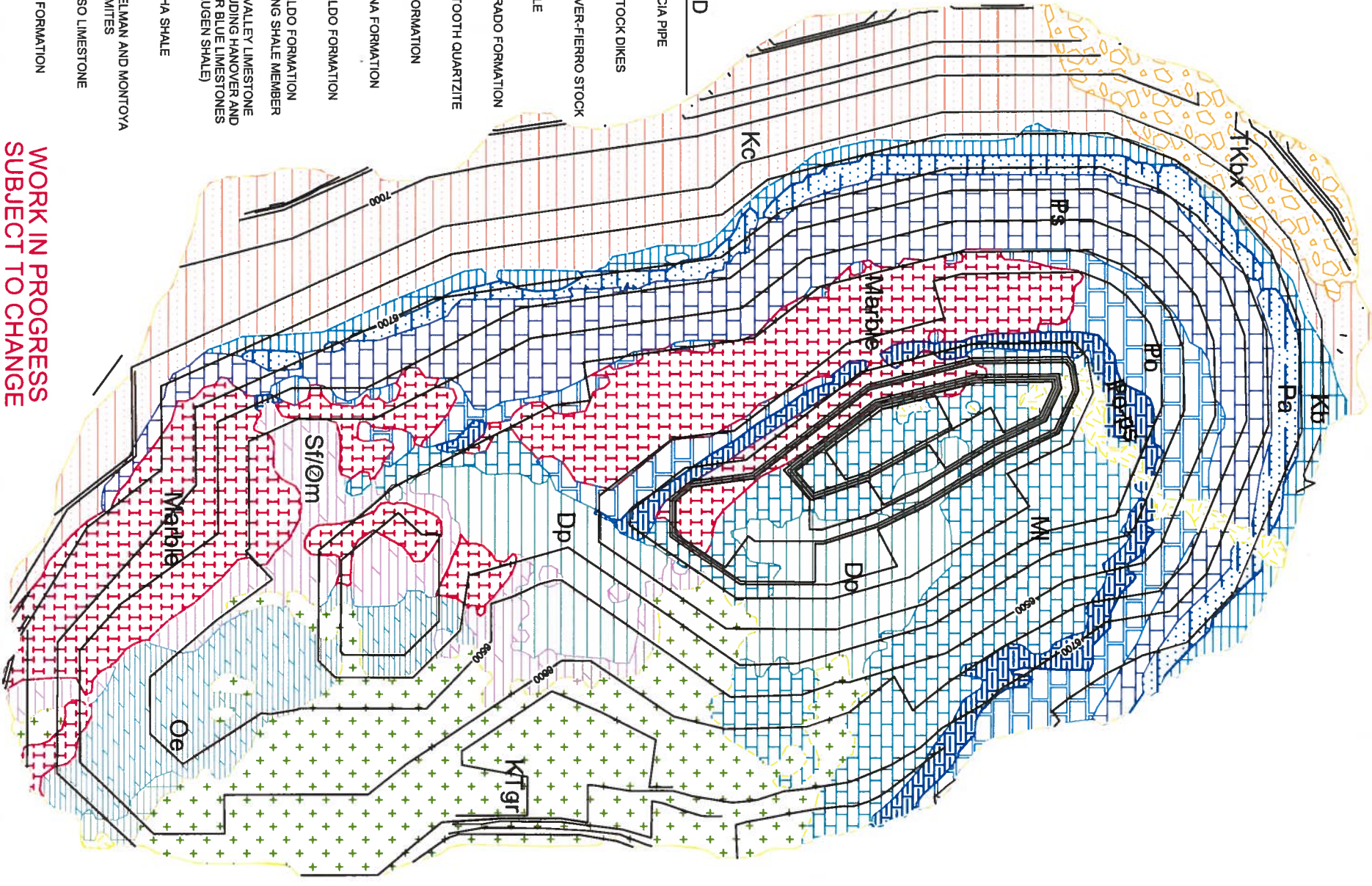
PROJECT: 200103	TASK: 84
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**FIGURE 3-4
GEOLOGIC CROSS-SECTION B-B'**

PREPARED FOR:

PROJECT: 200703
TASK: 84
TELESTO SOLUTIONS INCORPORATED

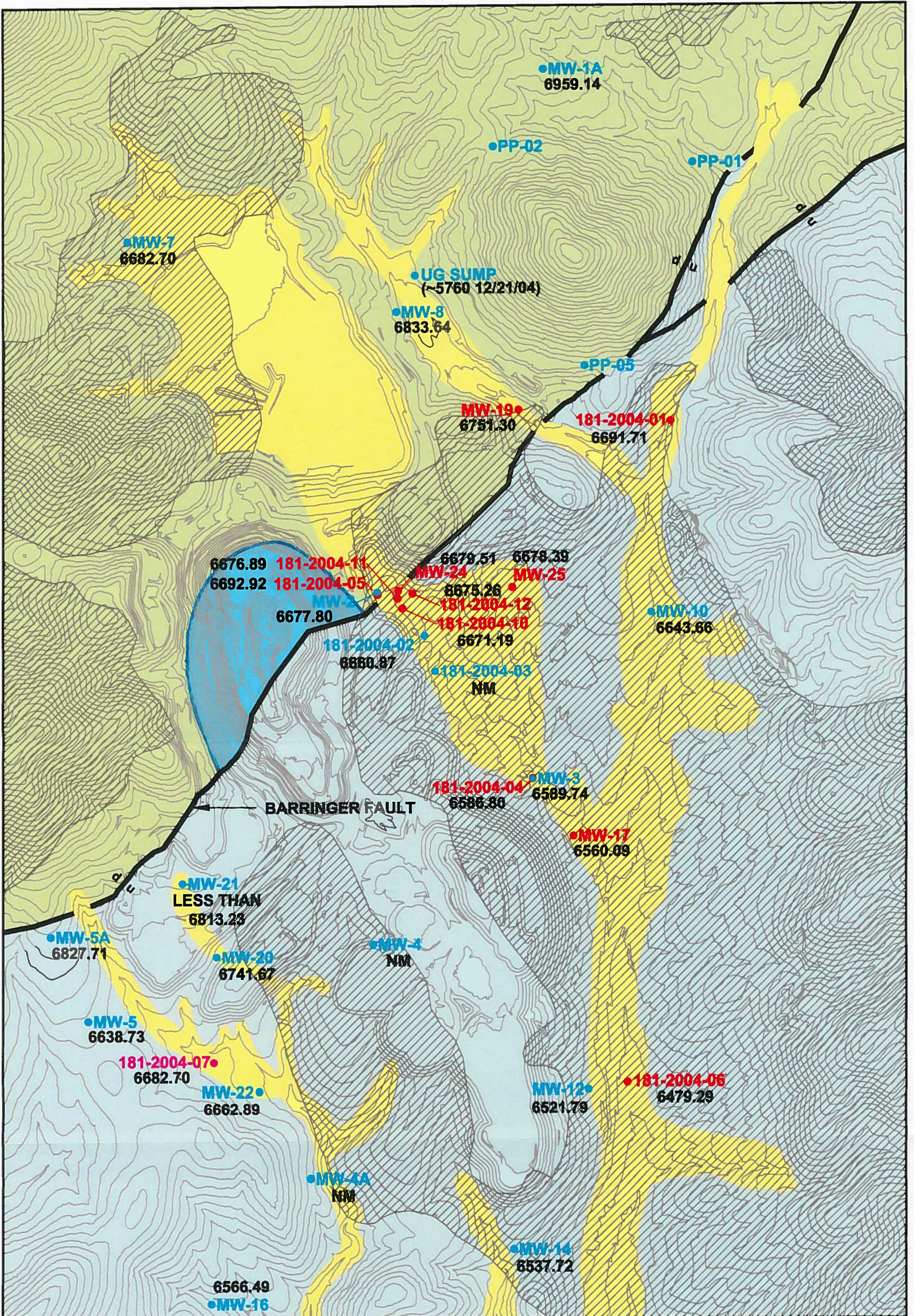
- LEGEND**
- TRN Breccia Pipe
 - Pre-Stock Dikes
 - KTgr Hanover-Fierro Stock
 - HH Marble
 - Kc Colorado Formation
 - Beartooth Quartzite
 - AbO Abo Formation
 - PS Syrena Formation
 - OSw Oswaldo Formation
 - OSw Oswaldo Formation
 - OSw Oswaldo Formation Parting Shale Member
 - LM Lake Valley Limestone (Including Hanover and Lower Blue Limestones and Augen Shale)
 - DP Percha Shale
 - SiOm Fusselman and Montoya Dolomites
 - El Paso Limestone
 - Bliss Formation



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FIGURE 3-5
GEOLOGY OF FINAL CONTINENTAL PIT

PREPARED FOR
TELESTO SOLUTIONS INCORPORATED



LEGEND

- MW-24 EXISTING PIEZOMETERS OR MONITORING WELLS IN BEDROCK
- 181-2004-07 EXISTING PIEZOMETER OR MONITORING WELLS IN COLLUVIUM
- MW-16 EXISTING PIEZOMETERS OR MONITORING WELLS IN ALLUVIUM/SHALLOW BEDROCK

- ALLUVIUM
- NORTH CRETACEOUS FLOW SYSTEM
- NORTH PALEOZOIC FLOW SYSTEM
- SOUTH PALEOZOIC FLOW SYSTEM

- INTRUSIVE IGNEOUS ROCKS
- (6520.22) WATER LEVEL ELEV. APRIL 26, 27 & 28, 2005

**WORK IN PROGRESS
SUBJECT TO CHANGE**



PROJECT: 200103 TASK: 84
 PREPARED BY: **TELESTO**
 SOLUTIONS INCORPORATED

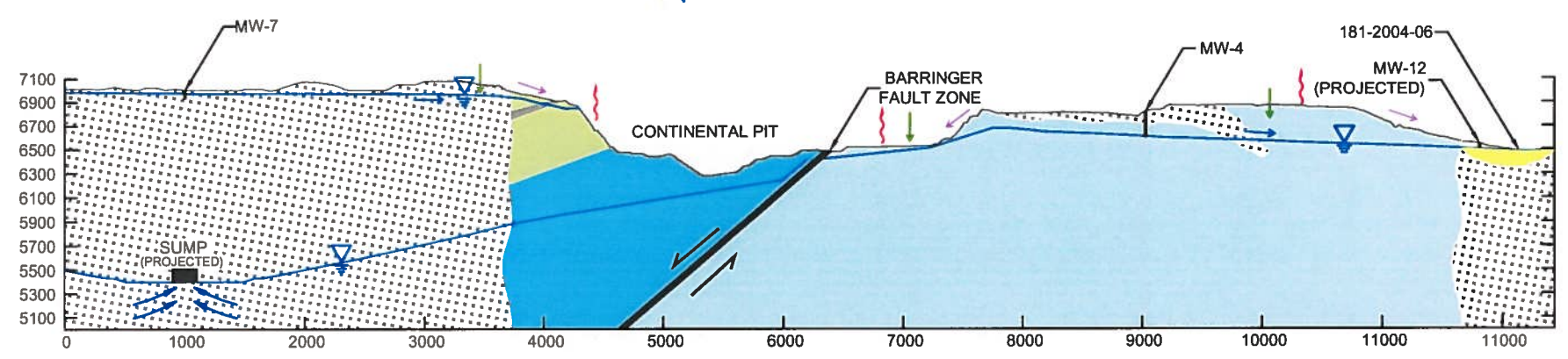
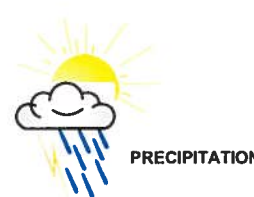
**FIGURE 5-1
GROUND WATER FLOW SYSTEMS**

PREPARED FOR: **phelps dodge**

8/4/2005 P:\Project\200-Cable\200103-Closure-support\200103-AUTOCAD\Confiles\84200103-84_WELL_LOCATION.dwg

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8/5/2005 P:\Projects\2005-Cobre\200103-Closeout-closure-support\200103-AUTOCAD\Condition 84\200103-84 diagrammatic conceptual flow model.dwg



LEGEND

- ALLUVIUM
- NORTH CRETACEOUS FLOW SYSTEM
- AQUITARD
- NORTH PALEOZOIC FLOW SYSTEM
- SOUTH PALEOZOIC FLOW SYSTEM
- INTRUSIVE IGNEOUS ROCKS
- GROUND WATER FLOW DIRECTION
- WATER LEVEL
- EVAPORATION/TRANSPIRATION
- RECHARGE
- RUNOFF
- FLOW

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NOT TO SCALE

PROJECT: 200103	TASK: 84
PREPARED BY: TELESTO <small>SOLUTIONS INCORPORATED</small>	

FIGURE 5-2
DIAGRAMMATIC CONCEPTUAL FLOW MODEL

PREPARED FOR: