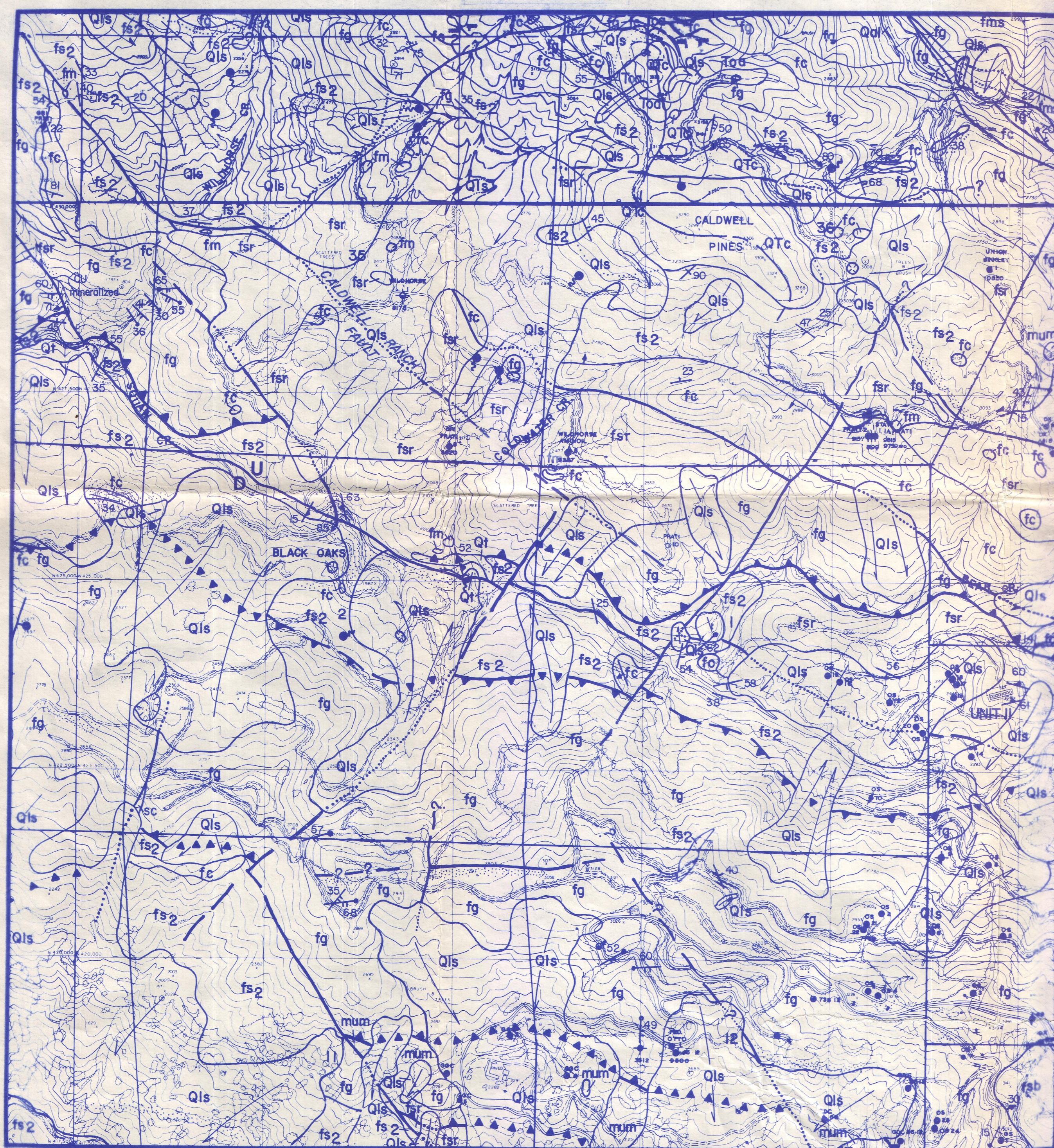


SURFACE GEOLOGY
A PORTION OF
N.W. GEYSERS GEOTHERMAL AREA

SCALE: 1"=1000'

T
1
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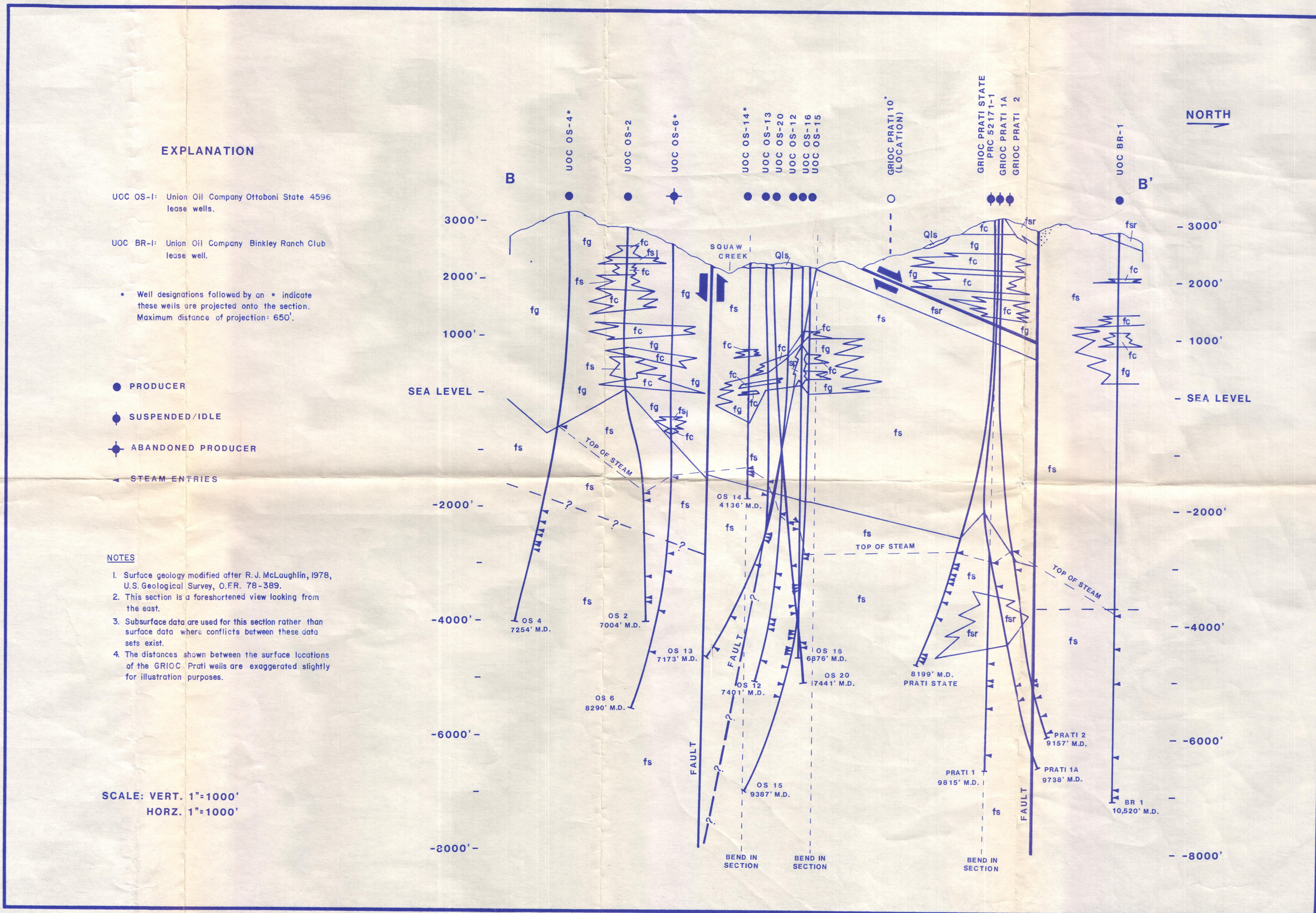
NOTE: A-A' appears on map S-106

EXPLANATION

- CENOZOIC**
- QUATERNARY**
 - Qal ALLUVIAL AND LACUSTRINE DEPOSITS. Unconsolidated gravel, sand, silt, and clay deposited as fan, lacustrine and fluvial sediments, locally hydrothermally altered and cemented by spring deposits.
 - Qls LANDSLIDE DEPOSITS. Unconsolidated rock and soil debris that has moved downslope by mass movement processes. Headwall zones characteristically have closed depressions.
 - Qt Terrace DEPOSITS. Unconsolidated to semi-consolidated older dissected alluvium containing gravel, sand and clay derived from local bedrock source areas.
 - Qtc CLEAR LAKE VOLCANICS OF HEARN AND OTHERS, 1976. Includes quartz basalt, andesite, dacite, rhyolite and minor olivine basalt.
 - Too OLDER ALLUVIUM BENEATH CLEAR LAKE VOLCANICS. Includes gravel with abundant subrounded to rounded cobbles and boulders of chert, foliated metagraywacke and blueschist derived from the Franciscan Assemblage.
- MESOZOIC**
- LOWER CRETACEOUS**
- fs Relatively unmetamorphosed graywacke. (Lower structural unit) largely fine to medium grained, massive to well bedded, relatively impervious fractured graywacke and minor intercalated argillites with slight metamorphic fabric.
 - fc Red, green and white chert and minor interbedded siliceous tuff and shale; thin bedded to massive and locally hydrothermally altered.
 - fg Greenstone, slightly to moderately metamorphosed basaltic pillows (locally extensively hydrothermally altered), pillow breccia, tuff and diabase.
 - far Sedimentary and tectonic melange, undifferentiated, chiefly pervasively sheared shale and gouged rock.
 - fab Sedimentary breccia, differentiated locally, contains detritus ranging in size and roundness.
- UPPER JURASSIC**
- fms Regionally metamorphosed metagraywacke (upper structural unit).
 - fm Blueschist grade metamorphic rock, foliated and phyllitic to gneissose metamorphic rocks.
 - mum Metamorphosed ultramafic rock, serpentinite metamorphosed to greenschist or amphibolite grade rock.
 - sp SERPENTINITES
 - sc SILICA CARBONATE

R 9 W

GEOLOGICAL CROSS SECTION
B - B'
A PORTION OF
N.W. GEYSERS GEOTHERMAL AREA



EXPLANATION

UOC OS-1 Union Oil Company Ottobani State 4596 lease well.

UOC BR-1 Union Oil Company Binkley Ranch Club lease well.

Well designations followed by an * indicate these wells are projected onto the section. Maximum distance of projection: 650'.

- PRODUCER
- ◆ SUSPENDED/IDLE
- ◆ ABANDONED PRODUCER
- ← STEAM ENTRIES

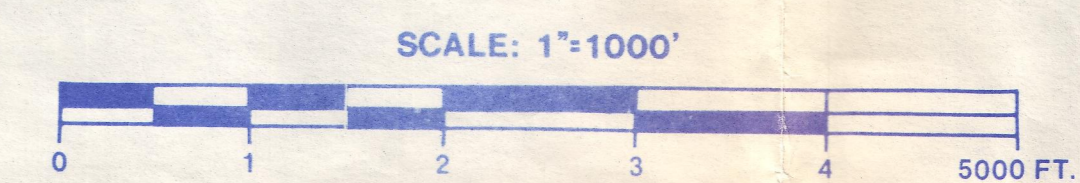
NOTES

1. Surface geology modified after R.J. McLoughlin, 1978, U.S. Geological Survey, OFR. 78-309.
2. This section is a fore-shortened view looking from the east.
3. Subsurface data are used for this section rather than surface data where conflicts between these data sets exist.
4. The distances shown between the surface locations of the GRIOC Prati wells are exaggerated slightly for illustration purposes.

SCALE: VERT. 1"=1000'
HORZ. 1"=1000'

GEOLOGIC SYMBOLS

- Qls LANDSLIDE DEBRIS
- SPRING
- Zone of HYDROTHERMAL AND/OR SOLFATERIC ALTERATION
- FAULT
Dashed where approximate
Dotted where concealed
- ▲▲▲ THRUST FAULT
Dashed where approximate
Dotted where concealed
- STRIKE AND DIP
- VERTICAL BED
- FLOW STRUCTURE
- BEARING AND PLUNGE
- FOLIATION
- BEDDING: BALL INDICATES BED TOPS
- ZONE OF SHEARED ROCKS



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GEOLOGICAL CROSS SECTION B - B' OF A PORTION OF N.W. GEYSERS PROJECT AREA				
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DATE		BY	REVISIONS	

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