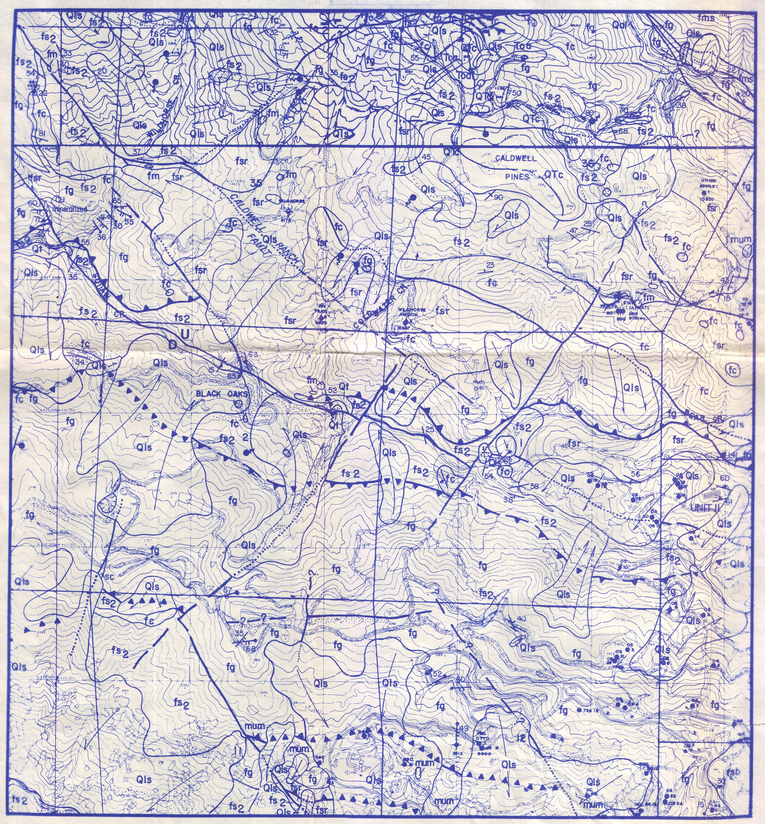
SURFACE GEOLOGY

A PORTION OF

N.W. GEYSERS GEOTHERMAL AREA

SCALE: 1"=1000'



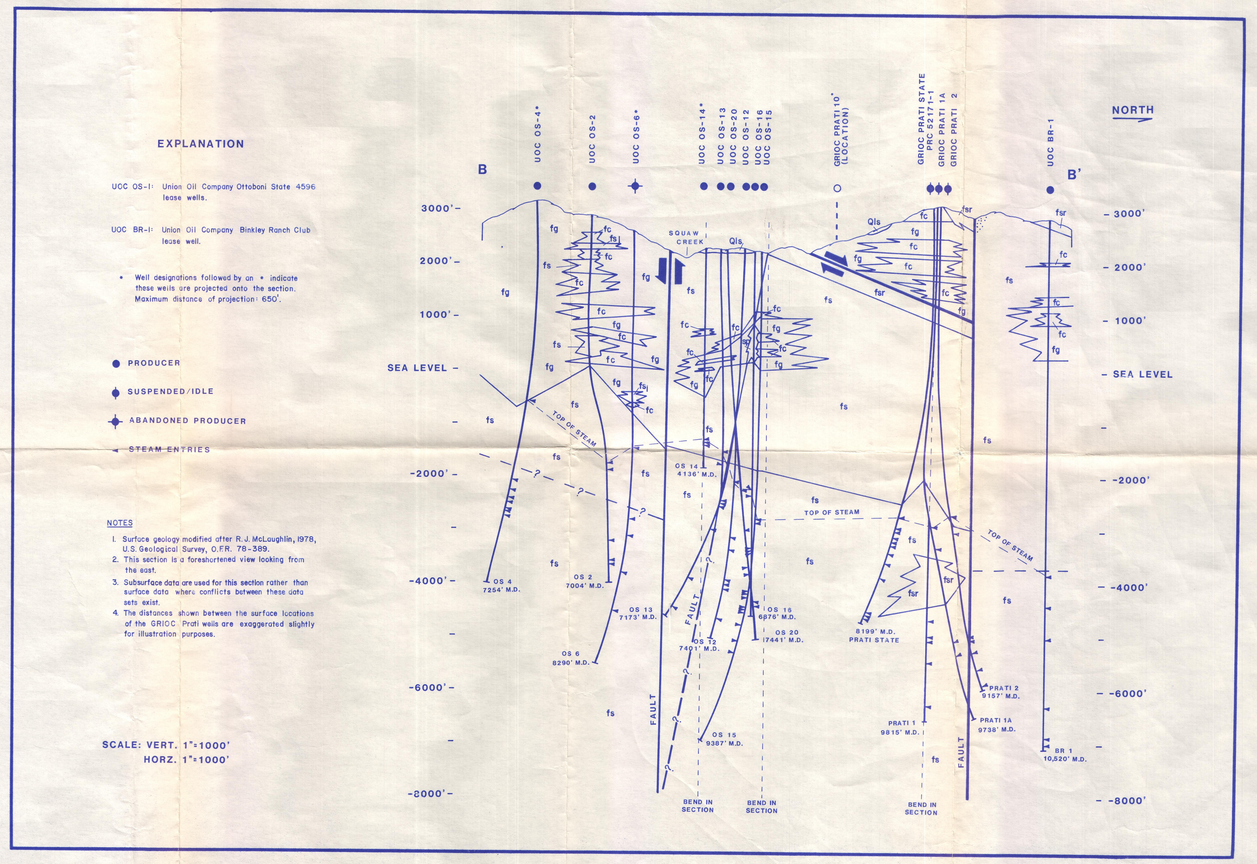
NOTE: A-A' appears on map 8-186

GEOLOGICAL CROSS SECTION

B - B'

A PORTION OF

N.W. GEYSERS GEOTHERMAL AREA



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.

CENOZOIC — TERTIARY

- Qtc — CLEAR LAKE VOLCANICS OF HEARN AND OTHERS, 1976. Includes quartz basalt, andesite, dacite, rhyolite and minor olivine basalt.
- Toa — 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.

FRANCISCAN ASSEMBLAGE ROCKS

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 argillite 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.
- fsr — Sedimentary and tectonic melange, undifferentiated; chiefly pervasively sheared shale and gouged rock.
- fsb — Sedimentary breccia, differentiated locally; contains detritus ranging in size and roundness.

MESOZOIC — 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 — SERPENTINITE
- sc — SILICA CARBONATE

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

SCALE: 1"=1000'

0 1 2 3 4 5000 FT.

GRI OPERATOR CORPORATION
2300 County Center Drive Suite 310
Santa Rosa, CA 95401

GEOLOGICAL CROSS SECTION

B - B'

OF A PORTION OF

N.W.GEYSERS PROJECT AREA

DATE	AUTHOR	APPROVED BY	FILE NO.
8-82	AES		NWG 026A
	DRAFTED BY SJM		

DATE	BY	REVISIONS

CONFIDENTIAL

B-B'