

WELL: Well A
PROJECT: Trihydro Corporation - Former Texaco Sunburst Works Refinery, Sunburst, Montana

RAS
Integrated Subsurface Evaluation
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LEGEND

GEOPHYSICAL LOGS
Gamma
Standard gamma ray (includes K, U, and Th)
Resistivity/Conductivity
By Induction Type
Hole Size
Caliper - Drillhole diameter from three arm caliper
All Geophysical Logs conducted after borehole completion.

STRUCTURE ANALYSIS
Structure Dip:
Linear scale, measured from BHTV images

Dip Direction (degrees)
Structure Frequency:
Fracture count / foot, plotted every foot
Structure Aperture:
Cumulative aperture / foot, plotted every foot

STEREOGRAPHIC PROJECTION

Counts 181
Mean Dip 15.45°
Mean Strike 312.91°

LITHOLOGY

Silty Sand, Sandy Clay, Clayey Sand, Clay, Clayey Silt, Shale, Silty Clay

HYDROPHYSICAL LOGGING AND RESULTS:
HPL FEC logs presented were collected during Slug Test after Emplacement conditions.

FEC 1407, FEC 1512, FEC 1545, FEC 1618, FEC 1713
FEC XXXX where XXXX is military time at start of log.
Horizontal flow observed during ambient conditions, inflow also evaluated during stressed (constant pumping or slug test) conditions. Horizontal flow rates based on integral method for q (Lowe, et. al., 1989) and dilution method for v (Drost, 1988).
Fluid Resistivity and Fluid Temperature
Log performed during ambient conditions
Hydraulic conductivity estimates based on Hvorslev (1962), (Pedler, et al 1989). Flow and velocity estimates based on hydrophysical logging results only.

CONTAMINANT EXPLANATION
Total Organic Compounds, in parts per billion
Method of analysis:

Photo Ionization Detection (PID)
Contaminant concentrations based on samples collected in open borehole conditions.

MISCELLANEOUS NOTES:
1. Top of casing elevation: 3431.26 feet (NAD 83 UTM) by survey.
2. All depths referenced to top of PVC casing.
3. Coordinates of cased borehole:
Latitude 48°52'28.574"N Longitude 111°54'48.540"W (NAD 83 UTM)
4. Lithology from geologist's log.
5. Well construction from caliper and image logs.
6. Geophysical logging conducted by RAS, Inc. on October 24, 2007.
7. Acoustic logging conducted by RAS, Inc. on October 24 & 31, 2007.
8. Hydrophysical logging conducted by RAS, Inc. on October 28 & 31, 2007.
9. Contaminant sampling by others.

