

EXPLORATION LOG SA120-A4

PROJECT: TRONOX PHASE B
EXPLORATION LOCATION: TRONOX AREA 4
EXPLORATION SIZE (dia.): 3" CORE BARREL
ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092518V1
EXPLORATION DATE: 9-28-2009
EQUIPMENT: SDC550-24 SONIC CORE RIG
LOGGED BY: SEARS/GAREY

INITIAL DEPTH TO WATER: NOT ENCOUNTERED
FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: N/A
DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | Pocket Penetrometer (tsf) | WELL CONSTRUCTION |
|--|--------------------------|------|---|----|----|-------------------------|----------------------|---------------------------------|----------------------|
| <div style="display: flex; align-items: center;"> <div style="flex: 1;"> </div> <div style="flex: 1; padding-left: 10px;"> <p>18 21 21</p> <p>12 11 10</p> <p>12 11 10</p> </div> </div> | | FILL | Collect SA120-0.5B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 2.7 ppmV FILL: SAND, SW, reddish brown (5YR 5/8), 95% fine to coarse sub-angular to sub-rounded sand, 5% fine to medium sub-angular to sub-rounded volcanic gravel, trace well cemented caliche nodules, medium loose, dry, no plasticity, weak HCl reaction | | | | | | |
| | | SW | SAND, reddish brown (5YR 4/4), 95% fine to coarse sand, 5% fine to medium sub-angular to sub-rounded gravel, thin interbedded calcite layers, medium loose, dry, no plasticity, weakly cemented caliche zones approximately 1' thick, strong HCl reaction | | | | | | |
| | | SW | Collect SA120-10B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 0.3 ppmV | | | | | | |
| | | SW | ...zones of caliche present | | | | | | |

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|---------------------|--------------------------|------|--|----|----|-------------------------|----------------------|---------------------------------|----------------------|
| | | | | | | | | | |
| | | SW | ...sand is coarser and sub-rounded to round | | | | | | |
| | | SW | Collect SA120-25B, PID readings: 10.6 eV = 0.2 ppmV, 11.7 eV = 3.5 ppmV | | | | | | |
| | | SP | SAND, light reddish brown (5YR 6/4), 100% very fine to fine sand, very dense, dry, calcite cementation | | | | | | |
| | | SW | SAND, reddish brown (5YR 5/4), 100% fine to coarse sand, damp, gypsum cement light grey in color (5YR 7/1) | | | | | | |
| | | SP | SAND, reddish brown (5YR 5/4), trace silt, 100% very fine to fine sub-angular to sub-rounded sand, medium dense, damp, low plasticity, zones of weak to heavy cementation, no HCl reaction | | | | | | |

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| | | | | | | | | | |
| | | SP | SAND, yellowish red (5YR 5/6), 5% silt, 95% very fine to fine sand, no HCl reaction | | | | | | |
| | | SP | Collect SA120-43B, PID readings: 10.6 eV = 0.4 ppmV, 11.7 eV = 0.0 ppmV | | | | | | |
| | | | END OF BORING AT 44.5 FEET | | | | | | |

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