

WOB 25K  
RPM 65  
PP 1000  
SPM#1-90

11/7/200

11/8/200

11/14-15/2007

4900

5000

5100

5200

---Samples yelsh brown;  
Abund. Fe oxide stain'g;  
2% bulk euhedral pyrite

COLD WATER PUMPED INTO TANK @ 4889'  
Temp. In 109°F

Temp. out 132°F

Temp. In 139°F

Temp. out 151°F

Temp. In 139°F

Temp. out 155°F

Temp. In 140°F

Temp. out 154°F

260 bbls flush  
from tank #4

VOLCANICLASTICS: YELSH BRN; COM  
TO PERVASIVE YEL-ORNG-RED WTHRG  
& OXIDATION STNG ON TUFFCS &  
ANDESITIC CLASTICS; ABUND PYR;  
INTED W/ ASH TUFF: PL YEL-WHT;  
AMOR W/ ABD CALC; TR AMOR QTZ;  
LSE RED FE OXIDES; MNR  
@EUB-GUMMY BENTONT CLAY CURDS  
@B/U 4889'.

ASH TUFF: WHT, OFF WHT, V PL  
ORNG, PL YELSH ORNG, RR GRN  
HUES; AMOR; COM EUHD PYR; TR  
DISSEM PYR 4920'-4935'; INC  
QTZ; SL-MOD CALC; COM FE STNG;  
TR ANDESITE FRAG.

ASH TUFF: WHT, V PL ORNG,  
GRYSH ORNG PNK, MOD PNK; PRED  
AMOR; OCC PORPH RYOLITE CGS;  
PLAG LATHS; COM-ABD PRYITE  
XTLS; OCC PSEUDOMORPHS; COM  
MLKY WHT QTZ CRYSTALS; TR QTZ  
VEINING; ABD CALCITE.

NOTE: FLOWING @ CONXNS; FLOW-  
LINE TEMPERATURES UP T/ 162°  
DURING SURVEY @ 5011'; DUMPG  
PITS T/PREVENT OVERFLOW.

VOLCANICLASTICS: INTERBEDDED  
WHT & YELSH ORNG-ORNG OXIDIZED  
INTERVALS; SUBAERIAL & SHALLOW  
FRESHWATER SEDIMENTS; 95-99%  
ASH TUFF FRAGS W/SCAT RHYOLITIC  
& ANDESITIC FRAGS; SBRND-ANG;  
PRLY SRTD; UNCONSOL; ABD CALC;  
COM FE OXIDES; TR-COM EUHD  
PYRITE; VRY RARE 2NDARY QTZ.

ASH TUFF: WHT W/SCAT VRY PALE  
YEL HUE ON SELECT GRAINS; ASHY  
MTX W/FEW VIS FSPR PHENOXTS;  
FELSIC, QTZ RICH; EASILY  
DISAGGREG WHEN PROBED; LEAVES  
METAL ON CTGS WHEN SCRATCHED;  
RR VIS CONCHOIDAL FRACTURE ON  
FEW QTZ VEINS; VFN FRAMBOIDAL &  
LSE PYRITE; COM LSE FE OXIDES.

SURVEY @ 5004' : 22°; 117° AZI

ASH TUFF: WHT, MOD ORNG PNK,  
MOD RDSH ORNG, RR PL GRN HUES;  
AMOR; OCC WAXY LSTR; INTED  
W/VOLCANOCLASTICS; SL-MOD CALC;  
TR QTZ COM HEMITITE STNG; RR-V  
RR PYRITE, OCC PSD.

ASH TUFF: WHT, BLUISH, LT ORNG  
PNK, RR GRYSH ORNG PNK & GRN  
HUES; TR EUHD PYRITE & PSEUDO-  
MORPHS; RR QTZ, OCC CONCHOIDAL  
FRACT; MOD CALC; COM CLR CALC;  
INTED VOLCANICLASTICS; TR HEMTT.

ASH TUFF: WHT, RR HUES OF GRN,  
RR MOD ORNG PNK; PRED ASH W/RR  
DISCERNABLE PHENOXTS; SL-MOD  
CALC; TR QTZ CRYSTALS; RR QTZ  
VEING & PYR; TR DACITE PORPH;

SURVEY @ 5223' : 17°; 111° AZI

NOTE: FLOW LINE TEMP 162°F  
DUR CONXN @5230'; DRILLED  
T/5252'; SURVEY.