



NOTE: FRACS IN FM; STEAM ENTRY & TEMP ENCR T/145°F.

ASH-TUFF: WT-YELSH-LT GRNSH; PL BRN HUE; AMORPH; LOC SLICK; TR EUHD PYR, OCC AS LIMONITE AFTER PYRITE PSEUDOMORPHS; TR QTZ, CALC & CHLOR; INTBD W/VOLCANICLASTIC SEDMNTS; SOME LITHIC TUFF INTERBEDS; LT BRN-RDISH BRN; TR HEMTT; RR CHLORITE.

NOTE: WELL FLOWING @ CONXNS; 142°F @ FLOW LINE DURG CONXN @4512'; 10°F INCRS ON CONXN @4543'; 152°F @ FLOW LINE; POOR FRACTURE EVIDENCE; TR SLICKS & GOUGE MATL ON SELECT CTGS; POSS INFLUX FROM MATRIX POROSITY IN VOLCANICLASTICS.

SURVEY @4565': 21° ; 117° AZI

ANDESITE: MED-DK GRN; DRIES T/DK GRNSH GRY; PORPH; PLAG & MAFIC PHENOXTS; GRN MNRLS PROB DIOPSIDE & HYPERSTHENE; COM-ABD CALC; TR PYR & HEMTT; RR QTZ VEING & DRUSY QTZ (<0.1MM).

NOTE: BLOWING OUT WHILE MOVING FLOAT SUB & SURVEY'G @ 4606'; DUE TO OVERBURDEN OF PRODUCED FORMATION WATER FR/WELL ON COMPRESSED AIR; FLOWLINE TEMP 168°; MRT 180°; GO BACK T/USING MUD PUMPS WITH AIR TO AID CIRCULATION.

ASH-TUFF: WT-YELSH-LT GRNSH; PL BRN; AMORPH; LOC SLICK; RR EUHD PYR & LIMONT PSEUDOMORPHS AFTER PYR; LOC TR ARGIL TR -COM QTZ, TR CALC & CHLOR; RR SPEC HEMTT; LOC BRECC; TR EUHD CLCIT, AMORPH CLCIT FRAC FILL; AMORPH QTZ, RR HEMTT & CHLORIC ALTERATION.

NOTE: F/4690-T/4700' CTGS W/COM QTZ & CALCITE, SLICK + ARGIL ALTR OF FRAC FILL; INCR TEMP 14° W/IN LAST 5' OF DRILLG; UNLOAD; POH F/NB #10.

ASH-TUFF: WT- LT YELSH GRY- LT BRN; AMOR TXT; LOC COM ARGIL; EUHD PRY; RR-TR CLCIT; TR QTZ; LOC COM QTZ IN FRAC FILL; RR CHLOR; RR HMTT LOC INTBD W/ PYROCLASTICS: LT YEL WHT-LT BRN; BREC FRGS TUFF IN QTZ MATX. RR CLCIT, RR PRY + HMTT.

ANDESITE: MED-DK GRN-GRNSH GRY; PORPH; PLAG & MAFIC PHENOXTS; GRN AMPHBL, PROB HORNBLND OR DIOPSIDE; TR-ABD CALC; TR PYR & HEMTT; RR CLR QTZ VEING W/FE.

VOLCANICLASTICS: LT YELSH BRN IN BULK; IND GRS VARIEGATED LITHIC FRAGS; PRED TUFF W/MNR ANDESITE AND XTL TUFF; ABUND PYRITE 4820'-4830' SPL, COM W/ PEACOCK STNG FR/BORNITE; COM FE/OXIDIZED FRAGS; GD TR CLR LSE QTZ; WK TR CALC; V RR CHLOR

11/4/2007

NB#19 11/5/2007
HTC, MXL-28DX
11/6/2007

Temp. out 138°F

<---Rare banded hemtt fillings w/botryoidal texture; amorphs Qtz.

<---Near complete loss of coloration in samples; bleached to 100% wht.

Temp. out 138°F

<---Common-abundant fault gouge & slickensides; spls w/brown alteratr

Argil altn.

Temp. in 134°F

Temp. out 142°F
TP 101°F

Dump 50 bbl w/

Dump 170bbl w/

Temp. in 130°F

Temp. out 144°F
<---Rare very fine drusy quartz clusters

Add water to losses @ sepe