



## HOLE

20" TO 577'  
14.75" TO 2300'  
9.875" TO  
TO  
TO  
TO

## CASING

16" FROM 0' TO 570'  
10.75" FROM 0' TO 2292'  
FROM TO  
FROM TO  
FROM TO

COMPANY Sierra  
WELL Alum 25-29  
FIELD  
COUNTY/STATE Nye/Nevada  
WELL HEAD COORDINATES

## ABBREVIATIONS

**NB** New Bit **BHT** Bottom Hole Temp  
**RRB** Re-run Bit **C** Carbide Test  
**CB** Core Bit **NR** No Returns  
**WOB** Weight On Bit **LAT** Logged After Trip  
**SPM** Strokes per Minute **CFM** Cubic Feet per Min  
**PP** Pump Pressure **BUT** Bottoms Up Temp  
**RPM** Revolutions per Min

## SYMBOLS

Wireline Log Casing Shoe  
 Steam/Water Entry Flow Test  
 Deviation Survey Cored Interval  
 No Recovery

ELEVATION  
SPUD DATE 11/08/09

TD DATE  
TOTAL DEPTH  
TRUE VERTICAL DEPTH  
TD LOCATION

CONTRACTOR/RIG Ensign #561  
COMPANY REPRESENTATIVE Jerry Hamblin

## LITHOLOGY

	Alluvium		Tuff
	Siltstone		Breccia
	Sandstone		Limestone
	Conglomerate		Dolomite
	Mylonite		Marble
	Quartzite		Schist
	Quartz Veins		Undiff Carbonates
	Rhyolite		Dike
	Diorite		Altered Zone
	Tuff Seds		

## REMARKS

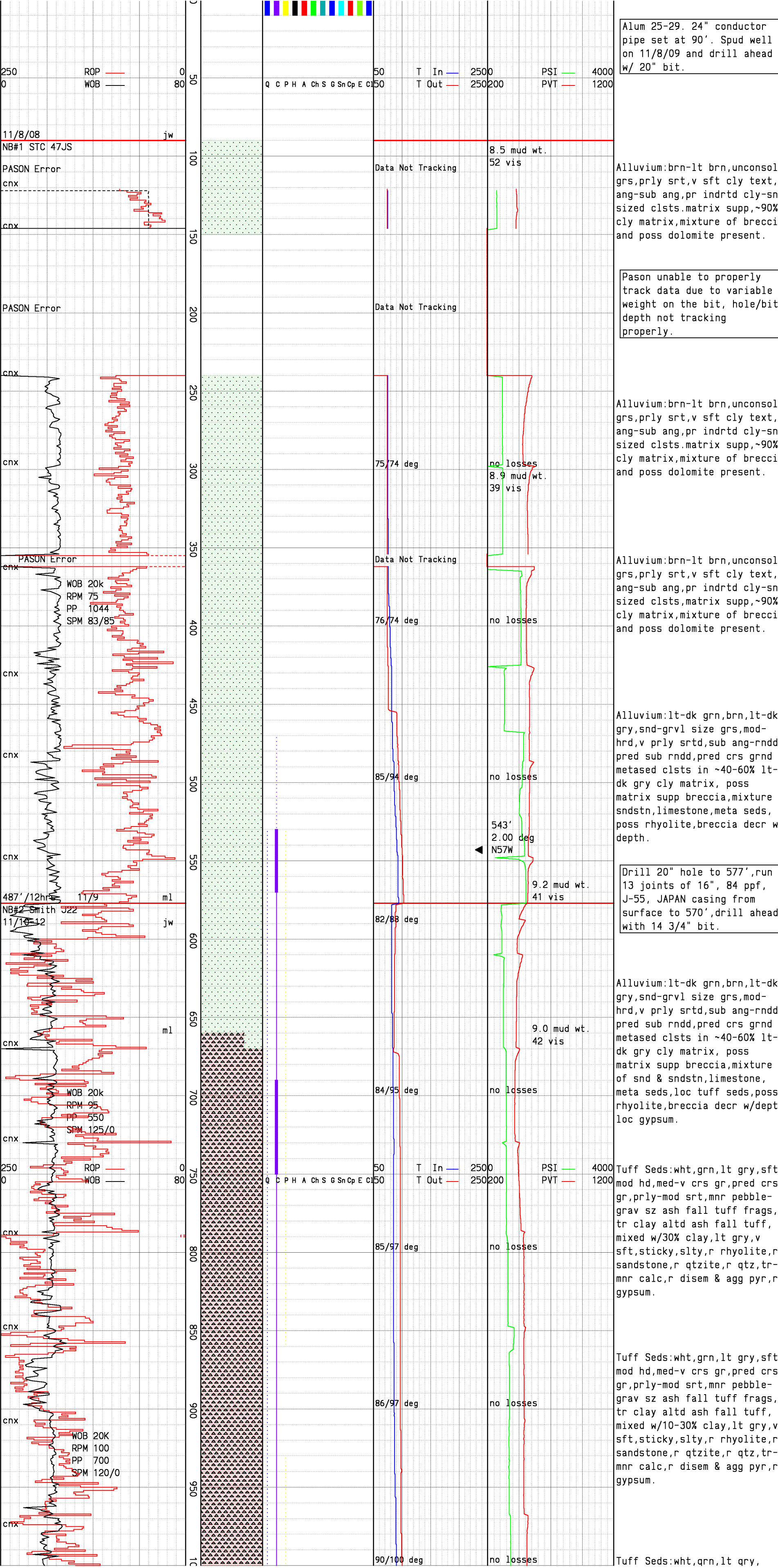
All depths from KB  
ml= Matthew Lamont  
jw= James Whearty  
je= Justin Everts

## LOG INTERVAL

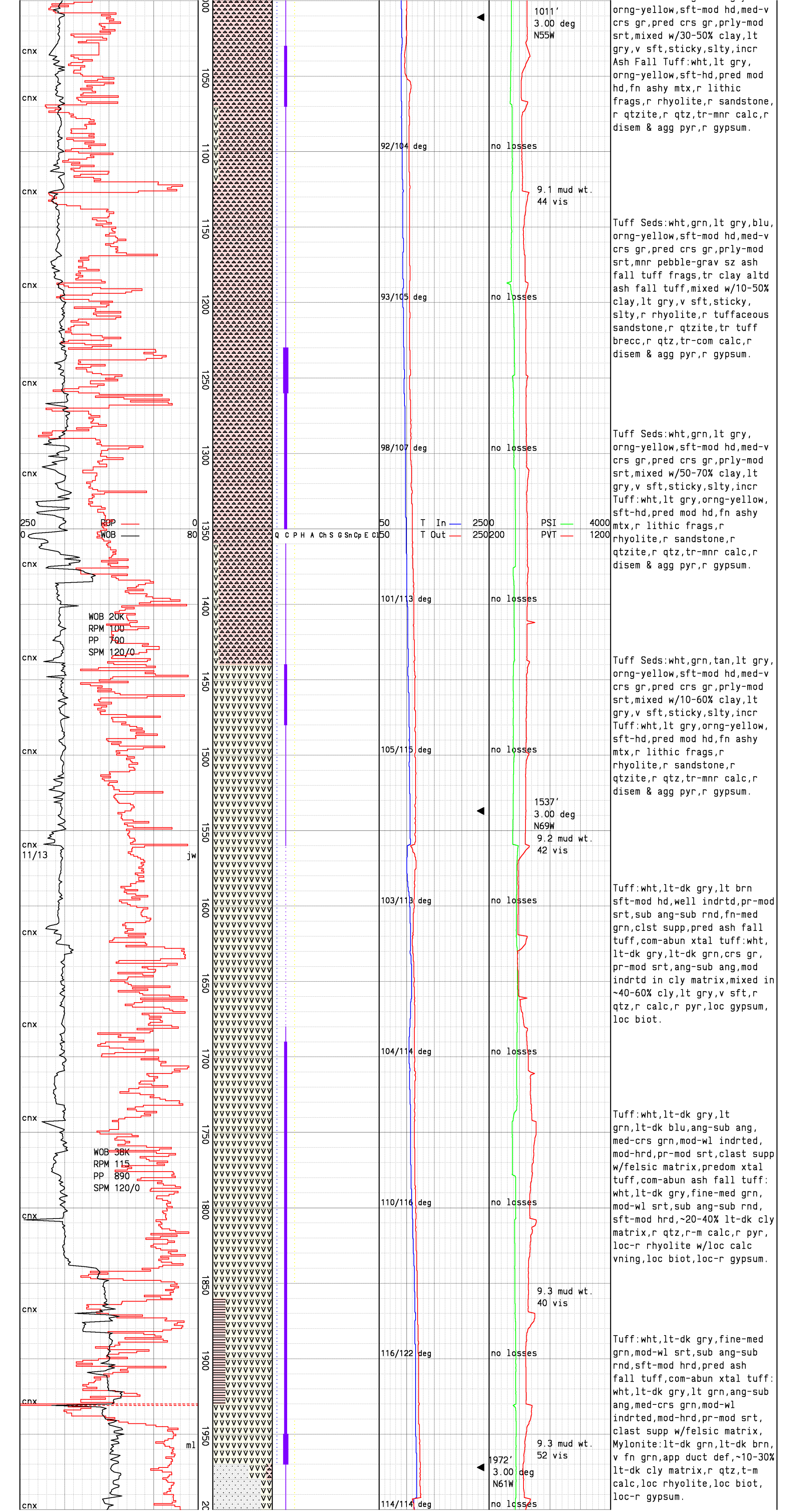
DATE LOGGED TO  
DEPTH LOGGED TO  
MUD DRILLING TO  
AIR DRILLING TO  
LOG SCALE 1:600 UNIT NO. T1  
LOGGING GEOLOGISTS  
Lamont, Whearty  
Everts

## SECONDARY MINERALS

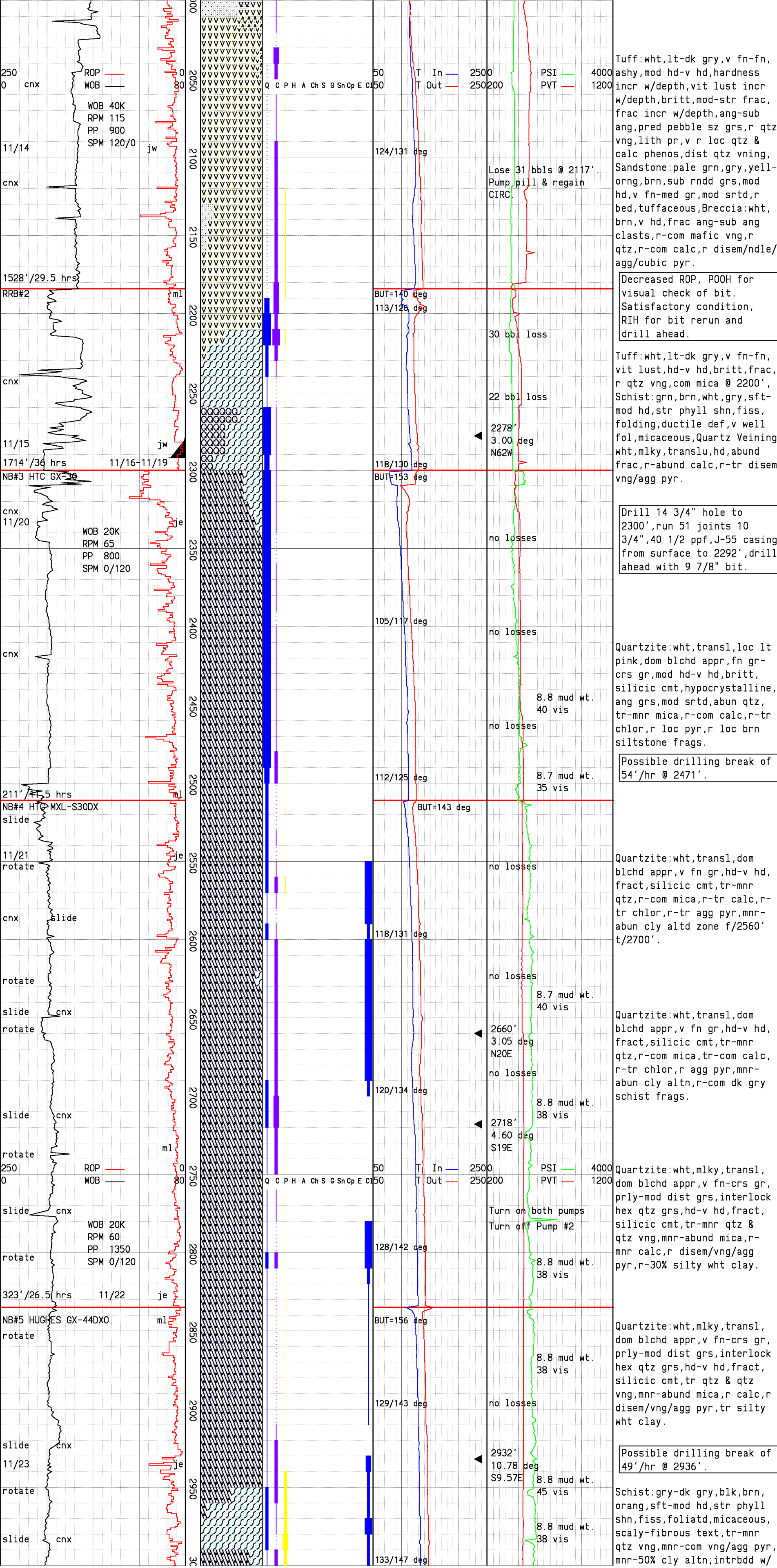
Q = Quartz		Rare	<< 1%
C = Calcite		Trace	< 1%
P = Pyrite		Minor	1% to 4%
Pr = Pyrrhotite		Common	4% to 7%
H = Hematite		Abundant	7% to 10%
Ch = Chlorite			> 10%
Cl = Clay			
S = Sulfur			
A = Alum (Alunite)			











Tuff:wht,lt-dk gry,v fn-fn, ashy,mod hd-v hd,hardness incr w/depth,vit lust incr w/depth,britt,mod-str frac, frac incr w/depth,ang-sub ang,pred pebble sz grs,r qtz vng,lith pr,v r loc qtz & calc phenos,dist qtz vning, Sandstone:pale grn,gry,yell-orng,brn,sub rndd grs,mod hd,v fn-med gr,mod srtd,r bed,tuffaceous,Breccia:wht, brn,v hd,frac ang-sub ang clasts,r-com mafic vng,r qtz,r-com calc,r disem/ndle/agg/cubic pyr.

Decreased ROP, POOH for visual check of bit. Satisfactory condition, RIH for bit rerun and drill ahead.

Tuff:wht,lt-dk gry,v fn-fn, vit lust,hd-v hd,britt,frac, r qtz vng,com mica @ 2200', Schist:grn,brn,wht,gry,sft-mod hd,str phyll shn,fiss, folding,ductile def,v well fol,micaceous,Quartz Veining: wht,mlky,translu,hd,abund frac,r-abund calc,r-tr disem/vng/agg pyr.

Drill 14 3/4" hole to 2300',run 51 joints 10 3/4",40 1/2 ppf,J-55 casing from surface to 2292',drill ahead with 9 7/8" bit.

Quartzite:wht,transl,loc lt pink,dm blchd appr,fn gr-crs gr,mod hd-v hd,britt, silicic cmt,hypocrystalline, ang grs,mod srtd,abun qtz, tr-mnr mica,r-com calc,r-tr chlor,r loc pyr,r loc brn siltstone frags.

Possible drilling break of 54'/hr @ 2471'.

Quartzite:wht,transl,dm blchd appr,v fn gr,hd-v hd, fract,silicic cmt,tr-mnr qtz,r-com mica,r-tr calc,r-tr chlor,r-tr agg pyr,mnr-abun cly altd zone f/2560' t/2700'.

Quartzite:wht,transl,dm blchd appr,v fn gr,hd-v hd, fract,silicic cmt,tr-mnr qtz,r-com mica,tr-com calc, r-tr chlor,r agg pyr,mnr-abun cly altn,r-com dk gry schist frags.

Quartzite:wht,mlky,transl, dm blchd appr,v fn-crs gr, prly-mod dist grs,interlock hex qtz grs,hd-v hd,fract, silicic cmt,tr-mnr qtz & qtz vng,mnr-abund mica,r-mnr calc,r disem/vng/agg pyr,r-30% silty whtclay.

Quartzite:wht,mlky,transl, dm blchd appr,v fn-crs gr, prly-mod dist grs,interlock hex qtz grs,hd-v hd,fract, silicic cmt,tr qtz & qtz vng,mnr-abund mica,r calc,r disem/vng/agg pyr,tr silty wht clay.

Possible drilling break of 49'/hr @ 2936'.

Schist:gry-dk gry,blk,brn, orang,sft-mod hd,str phyll shn,fiss,foliatd,micaceous, scaly-fibrous text,tr-mnr qtz vng,mnr-com vng/agg pyr, mnr-50% cly altn;intrbdd w/

