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**Houston, TX**  
(281) 784-5500  
**Bakersfield, CA**  
(661) 328-1595  
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(337) 364-2322  
**Anchorage, AK**  
(907) 561-2465

## Geothermal Formation Log

**COMPANY** Coso Operating Co.

**WELL** BLM North 33A-7

**FIELD** Coso Geothermal

**REGION** Coso Mountains

**COORDINATES** 258551.47' N

2351542.02' E

**ELEVATION** 4183.20'

**COUNTY, STATE** Inyo, California

**API INDEX** NA

**SPUD DATE** 12/20/2009

**CONTRACTOR** Kenai Drilling, U.S.A

**CO. REP.**

**RIG/TYPE** Kenai #6/Rotary Triple

**LOGGING UNIT** ML039

**GEOLOGISTS** Matt Uddenberg

Josiah Failing

**ADD. PERSONS** Marquel Mosebay

Rosalba Queirolo

**CO. GEOLOGIST** Mike Krahmer

### LOG INTERVAL

**DEPTHS:** 100' **TO** 11,574'

**DATES:** 12/20/2009 **TO** 3/25/2010

**SCALE:** 5" = 100'

### CASING DATA

20" **AT** 807'

13 3/8" **AT** 4041'

9 5/8" **AT** 7024'

**AT**

### HOLE SIZE

26" **TO** 817'

17 1/2" **TO** 4061'

12 1/4" **TO** 7030'

8 1/2" **TO** 11,574'

### MUD TYPES

SPUD/GEL **TO** 817'

GEL/Bentonite **TO** 11,574'

**TO**

**TO**

### ABBREVIATIONS

**NB** NEWBIT

**RRB** RERUN BIT

**CB** CORE BIT

**WOB** WEIGHT ON BIT

**RPM** ROTARY REV/MIN

**PP** PUMP PRESSURE

**SPM** STROKES/MIN

**PR** POOR RETURNS

**LAT** LOGGED AFTER TRIP

**LC** LOST CIRCULATION

**CO** CIRCULATE OUT

**NR** NO RETURNS

**TG** TRIP GAS

**WG** WIPER GAS

**CG** CONNECTION GAS

 ALTERED ZONE

 ANDESITE

 ANHYDRITE

 BASALT

 BRECCIA

 CALCAREOUS TUFF

 CALCILUTITE

 CARBONATES

 CARBONACEOUS MAT

 CARBONACEOUS SH

 CEMENT CONTAM.

 CRYSTALLINE TUFF

 CHERT - UNDIFF

 CLAY

 CLAY-MUDSTONE

 CLYST-TUFFACEOUS

 COAL

 CONGLOMERATE

 DACITE

 DIORITE

 DOLOSTONE

 FELSIC SILIC DIKE

 GABBRO

 GLASSY TUFF

 GRANITE

 GRANITE WASH

 GRANODIORITE

 GYPSUM

 HALITE

 HORNBL-QTZ-DIO

 INTRUSIVES

 LIMESTONE

 LITHIC TUFF

 MARL - CALC

 METAMORPHICS

 OBSIDIAN

 PORCELANITE

 PORCELANEUS CLYST

 PYRITE

 PYROCLASTICS

 QUARTZ DIORITE

 QUARTZ LATITE

 QUARTZ MONZONITE

 RECRYSTALLIZED CALCITE

 RHYOLITE


 SAND

 SANDSTONE


 SANDSTONE-TUFFACEOUS


 SERPENTINE

 SHALE

 SHALE TUFFACEOUS

 SHELL FRAGMENTS

 SILTSTONE

 SILTST-TUFFACEOUS

 TUFF

 VOLCANICLASTICS SEDS

 VOLCANICS

### MINERAL PERCENTAGE

< 1% 1-3% 4-6% 7-9% > 10%



### ALTERATION TYPES



SERICITIZATION



BIOTITIC



SILICIFICATION



CHLORITIC



KAOLINITIC

### ALTERATION INTENSITY

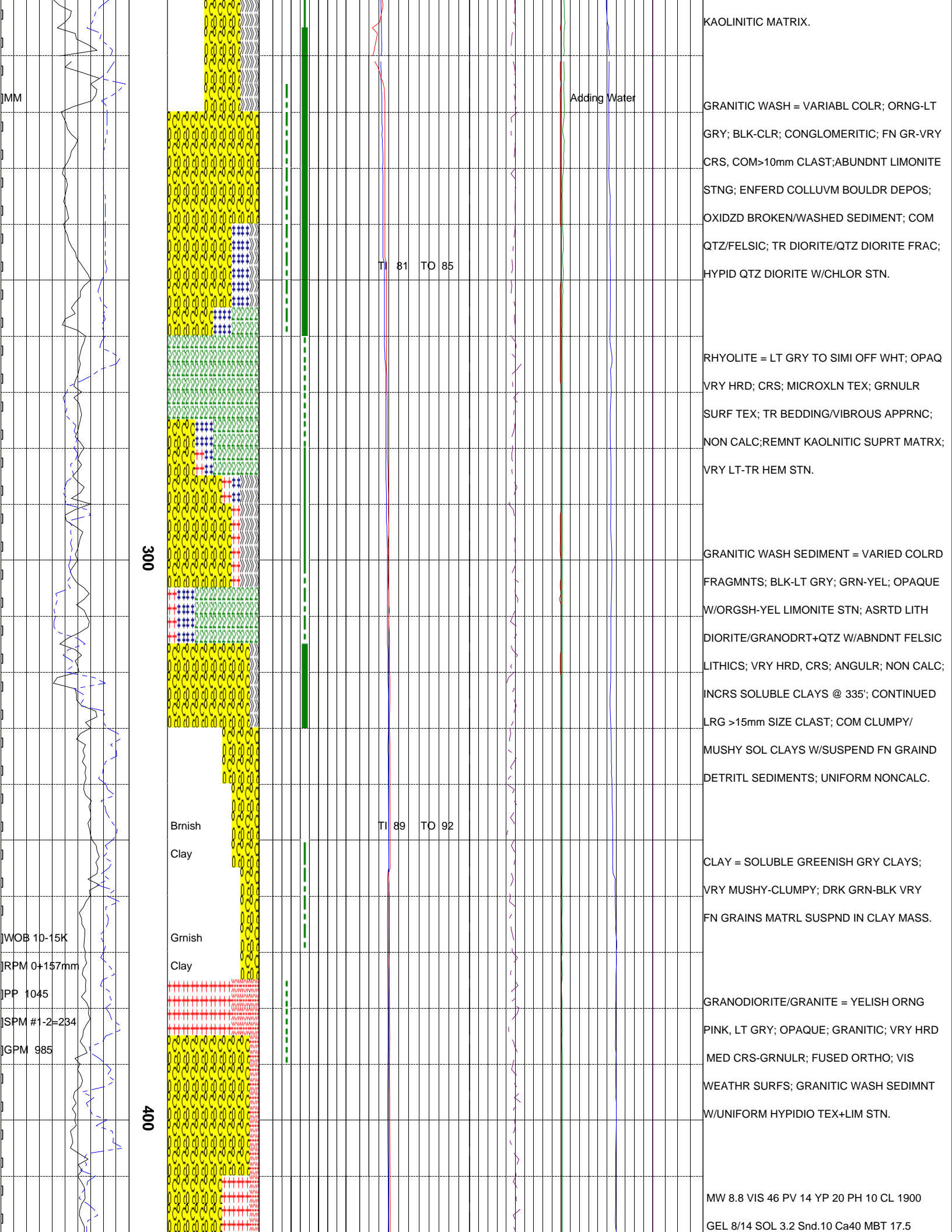
WEAK

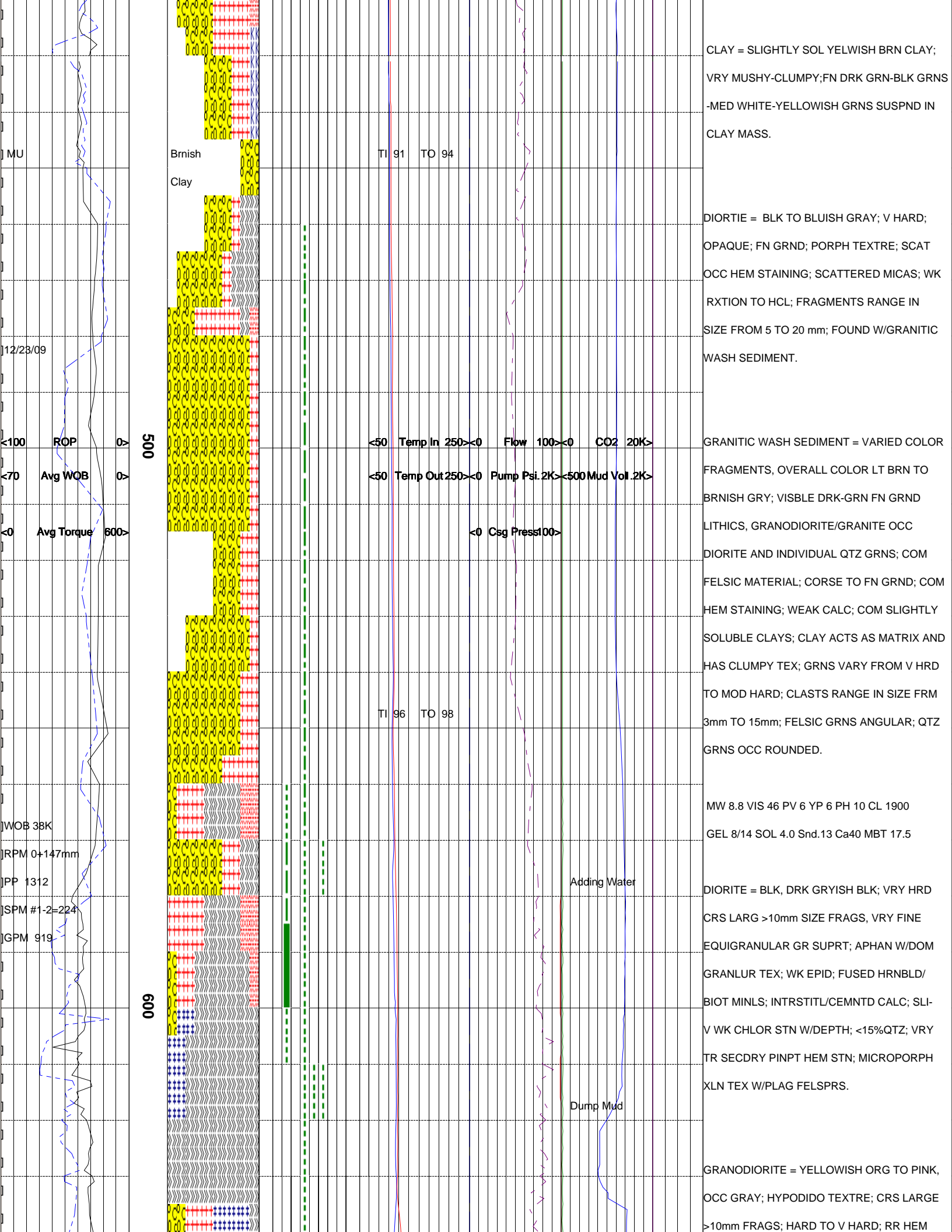
MODERATE

STRONG

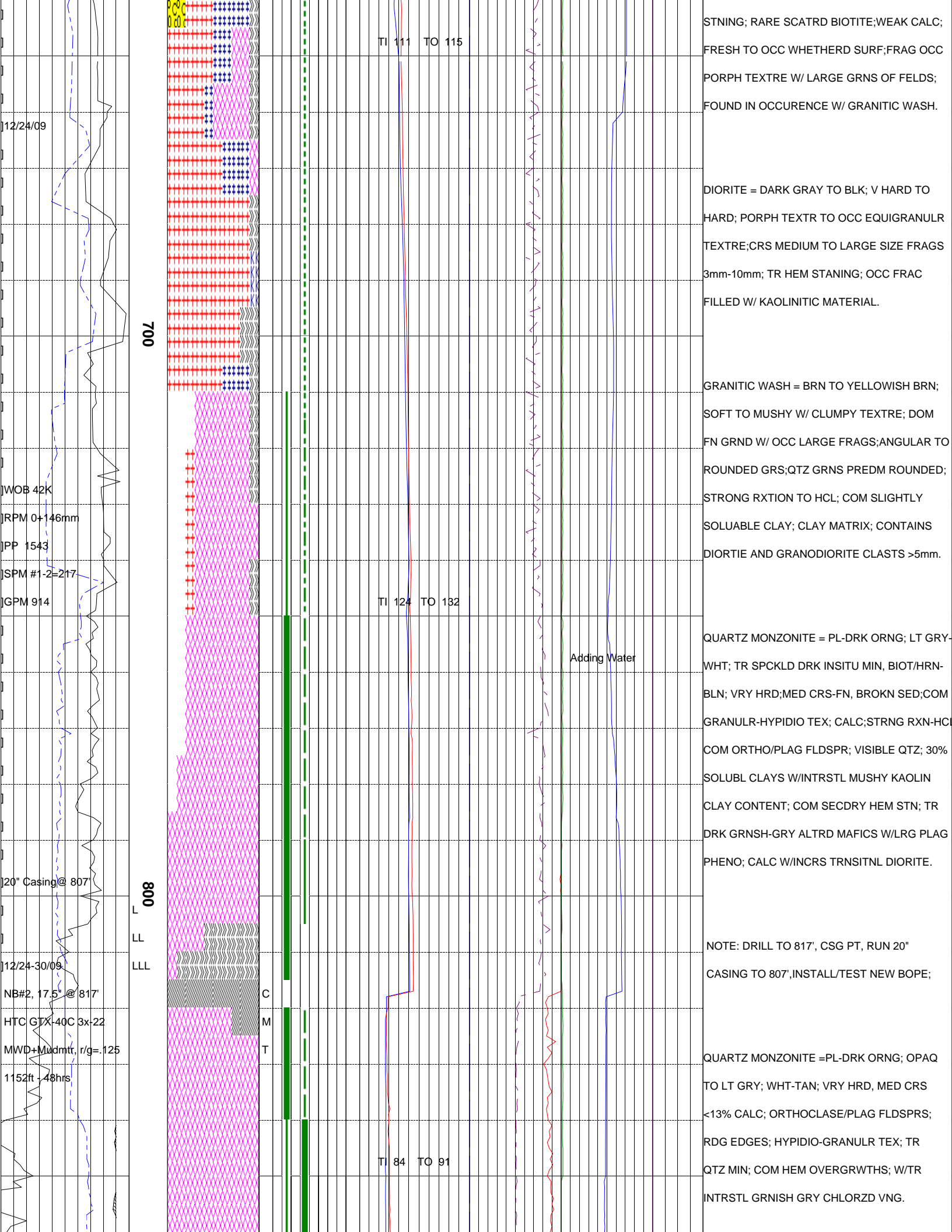


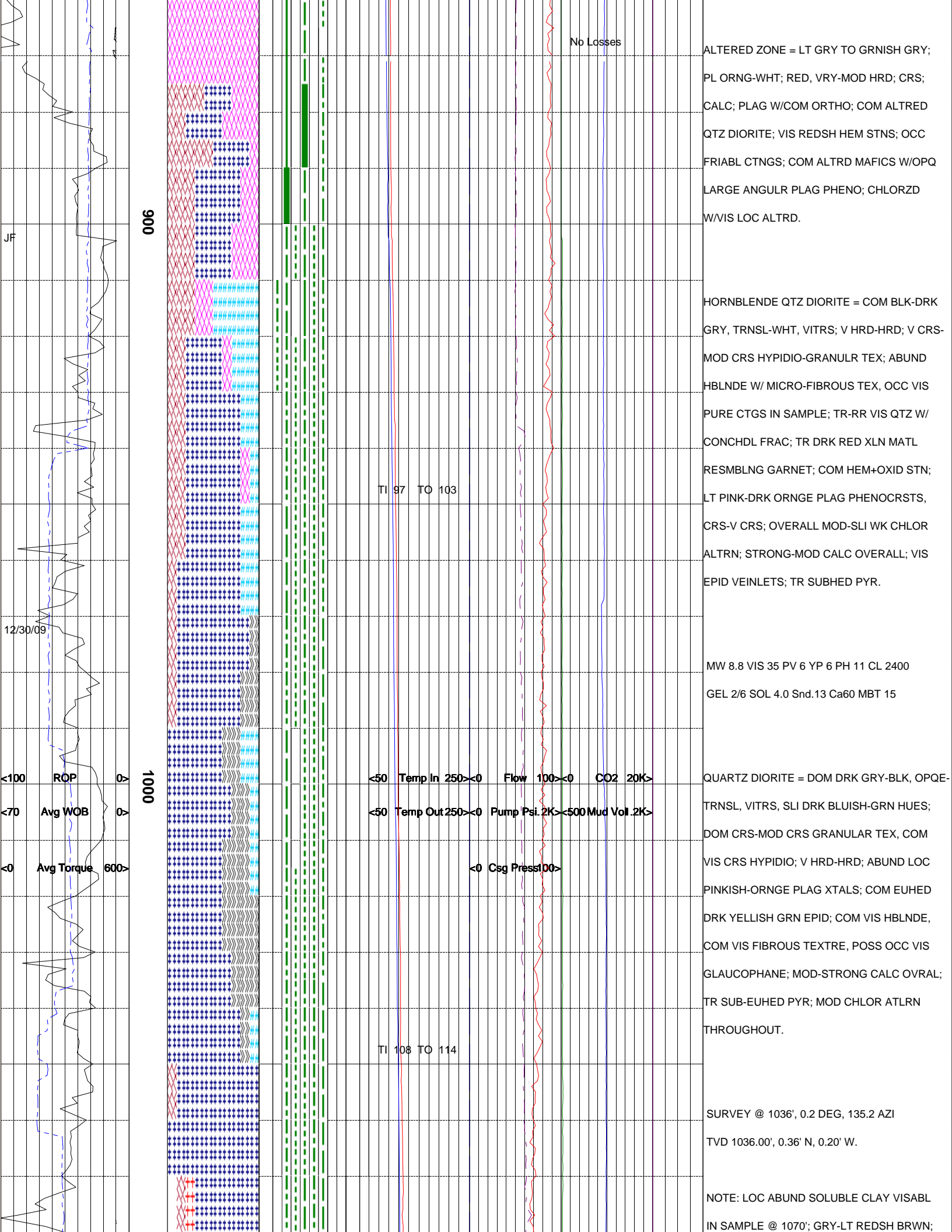
Survey Data, Mud Reports, Other Info		Remarks	
Depth		Lithology	
ROP ft/hr		MINERALS	
Avg WOB klbs		FRACTURES	
Avg Torque amps		ALTERATION	
		TEMP IN 250 degrees F	
		TEMP OUT 250 degrees F	
		Flow %	
		Pump Psi. 2K psi	
		Csg Press 100 psi	
		CO2 20K ppm	
		Mud Loss bbl/min	
		Mud Vol. 2K bbls	
30" Casing @ 80'		CO2 CALIBRATED 5% = 50,000 PPM;	
NB#1, 26" @ 80'		TEMPERATURE REPORTED IN DEGREES	
Smith G28YCPS,3x-30 1-16		FAHRENHEIT; MUD LOSSES REPORTED IN	
MWD+Mudmtr, r/g=.16		BBL/MIN; LITHOLOGY COLORS ARE FROM	
737ft - 40hrs		WET CUTTINGS, AND ARE REFERENCED TO	
12/22/09		THE GEOLOGICAL SOCIETY OF AMERICA'S	
		ROCK COLOR CHART.	
		A = Hydrostatic	
		Pressure	
		BUT = Bottoms up	
		BU = Bottoms up	
		Temperature (°F)	
		CO2 Gas (ppm)	
		SANDSTONE= WHITISH GRAY TO GRAY;	
		UNCONSOLIDATED; ANGULR TO SUBRND	
		GRNS; CLEAR QTZ GRAINS TO OPQUE FELD	
		GRNS; WEAK HCL; OCC HEM STAINING;	
		TR PYRITE; DARK MAFIC LITHICS; TR CHLR	
		STAINING; POORLY SORTED; POLISHED TO	
		ROUGH SURFACE; MED GRND TO COARSELY	
		GRND.	
		SANDSTONE = GRAY-WHTISH GRAY W/ HUES	
		OF ORG, GRN; SOFT-MUSHY; DOM ANGULAR	
		CORSE GRNS, OCC MED SUBROUNDED GRNS;	
		WEAK HCL; CLR QTZ GRNS; DARK GRN/BLK	
		LITHICS; PRLY SRTD; FELD DOM OCC QTZ	
		CLEAR TO QPAQ GRNS; TR SMOKY QTZ; TR	
		EPIDOTE; TR CHLORITE STNING; COM HEM	
		STNING; COM CLASTS OF QTZ DIORITE AND	
		DIORTIE, MAY BE DRILLING ALONG CONTACT	

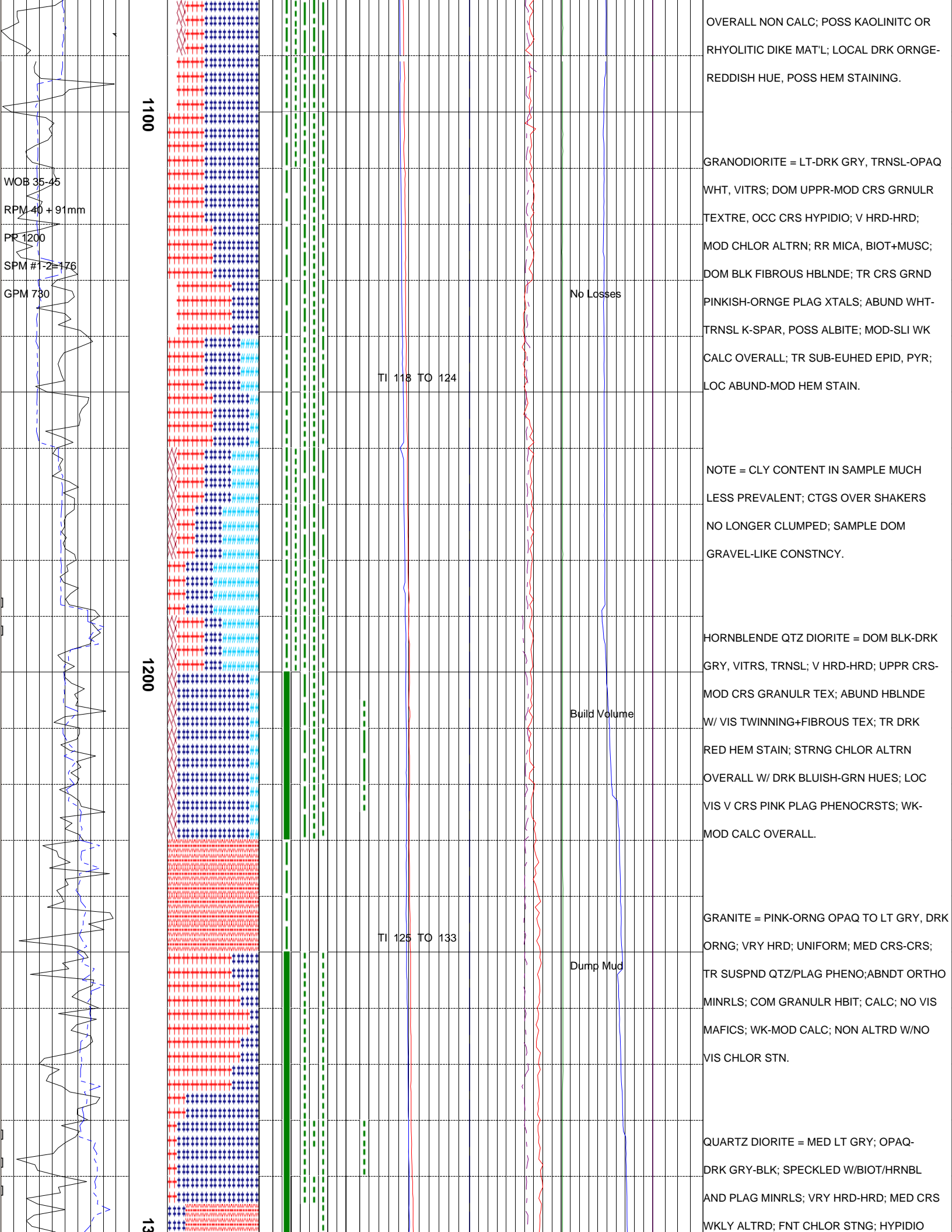


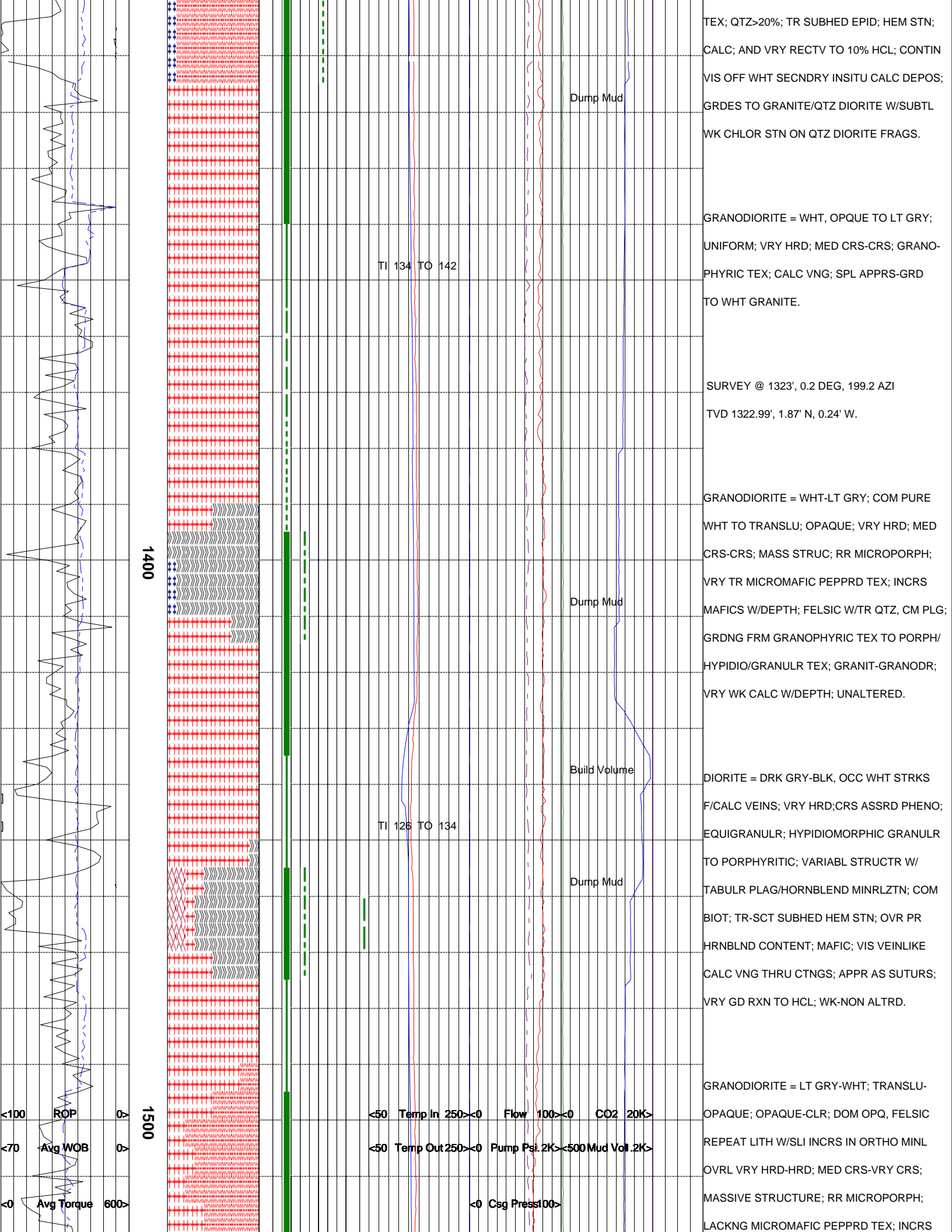


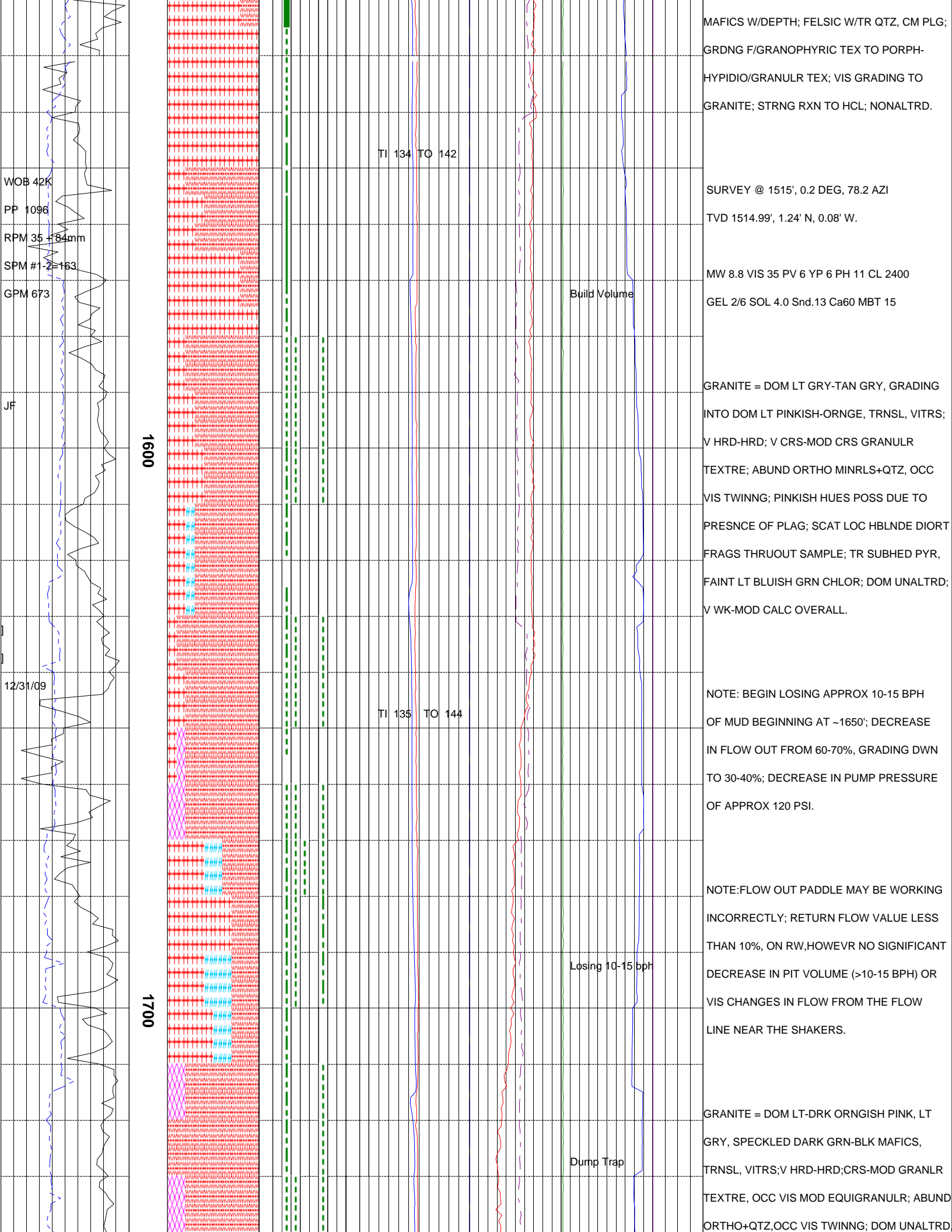


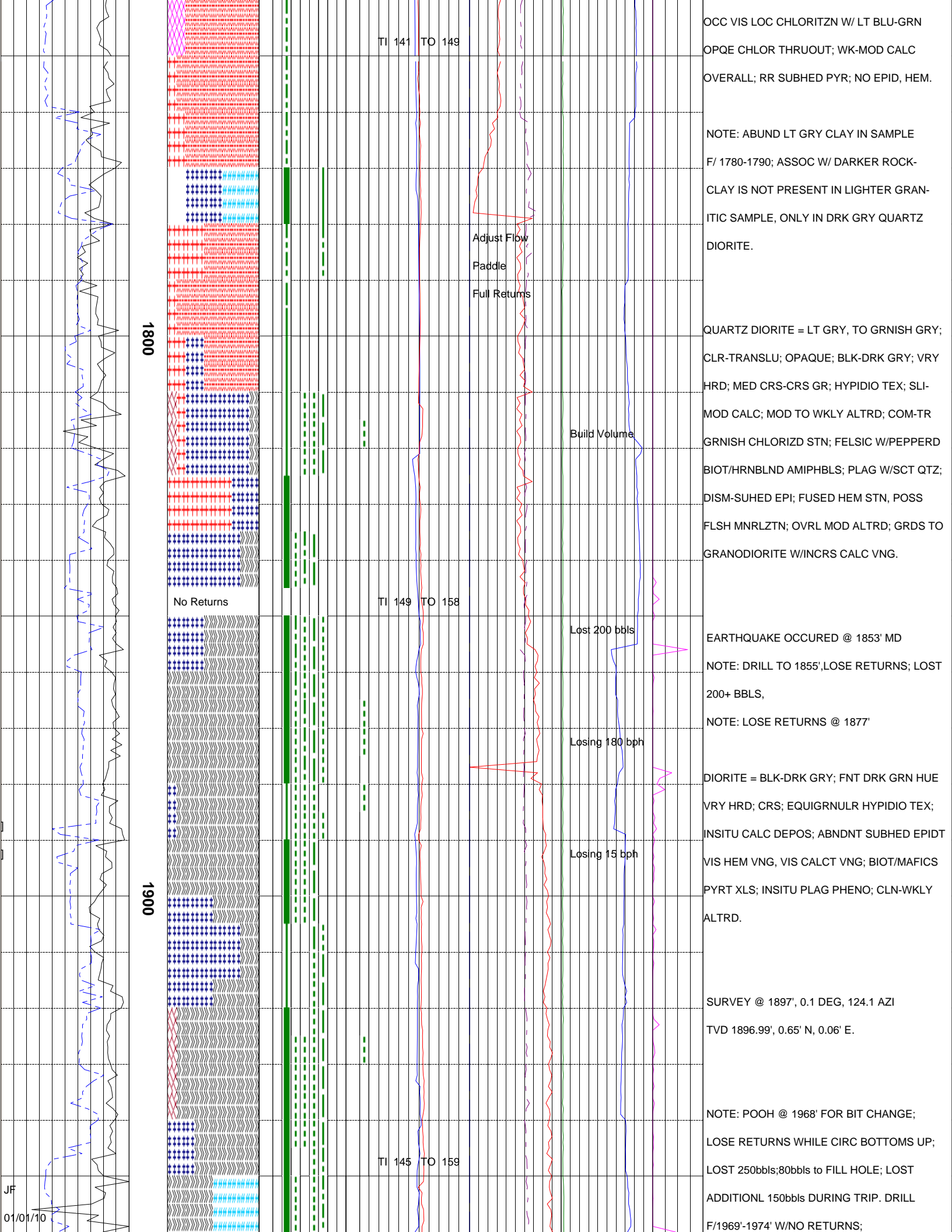












TI 141 TO 149

OCC VIS LOC CHLORITZN W/ LT BLU-GRN  
OPQE CHLOR THRUOUT; WK-MOD CALC  
OVERALL; RR SUBHED PYR; NO EPID, HEM.  
  
NOTE: ABUND LT GRY CLAY IN SAMPLE  
F/ 1780-1790; ASSOC W/ DARKER ROCK-  
CLAY IS NOT PRESENT IN LIGHTER GRAN-  
ITIC SAMPLE, ONLY IN DRK GRY QUARTZ  
DIORITE.

Adjust Flow  
Paddle  
Full Returns

1800

QUARTZ DIORITE = LT GRY, TO GRNISH GRY;  
CLR-TRANSLU; OPAQUE; BLK-DRK GRY; VRY  
HRD; MED CRS-CRS GR; HYPIDIO TEX; SLI-  
MOD CALC; MOD TO WKLY ALTRD; COM-TR  
GRNISH CHLORIZD STN; FELSIK W/PEPPERD  
BIOT/HRNBLND AMIPHBLs; PLAG W/SCT QTZ;  
DISM-SUHED EPI; FUSED HEM STN, POSS  
FLSH MNRLZTN; OVRL MOD ALTRD; GRDS TO  
GRANODIORITE W/INCRS CALC VNG.

Build Volume

No Returns

TI 149 TO 158

EARTHQUAKE OCCURED @ 1853' MD  
NOTE: DRILL TO 1855',LOSE RETURNS; LOST  
200+ BBLS,  
NOTE: LOSE RETURNS @ 1877'

Lost 200 bbls

Losing 180 bph

DIORITE = BLK-DRK GRY; FNT DRK GRN HUE  
VRY HRD; CRS; EQUIGRNULR HYPIDIO TEX;  
INSITU CALC DEPOS; ABNDNT SUBHED EPIDT  
VIS HEM VNG, VIS CALCT VNG; BIOT/MAFICS  
PYRT XLS; INSITU PLAG PHENO; CLN-WKLY  
ALTRD.

Losing 15 bph

1900

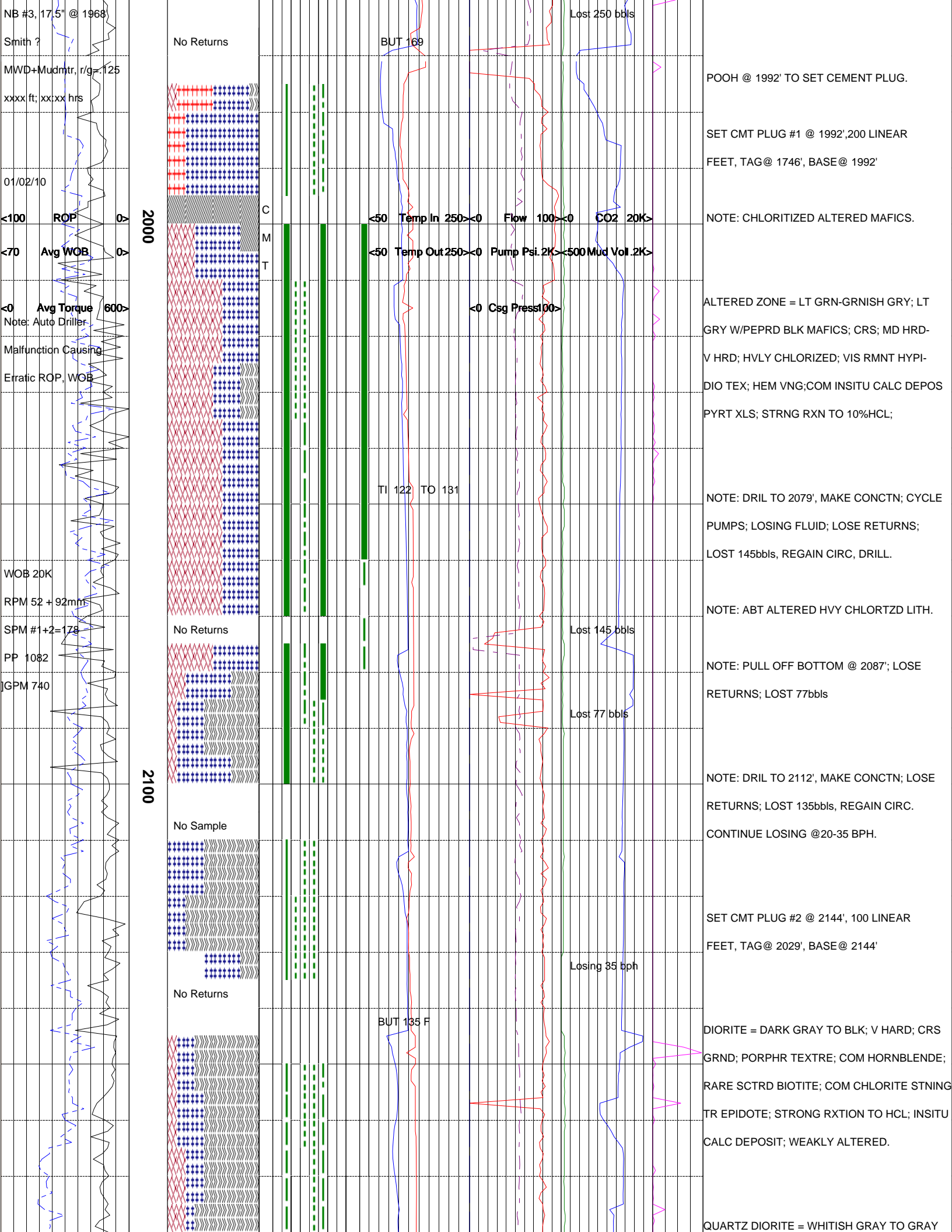
SURVEY @ 1897', 0.1 DEG, 124.1 AZI  
TVD 1896.99', 0.65' N, 0.06' E.

NOTE: POOH @ 1968' FOR BIT CHANGE;  
LOSE RETURNS WHILE CIRC BOTTOMS UP;  
LOST 250bbls;80bbls to FILL HOLE; LOST  
ADDITIONL 150bbls DURING TRIP. DRILL  
F/1969'-1974' W/NO RETURNS;

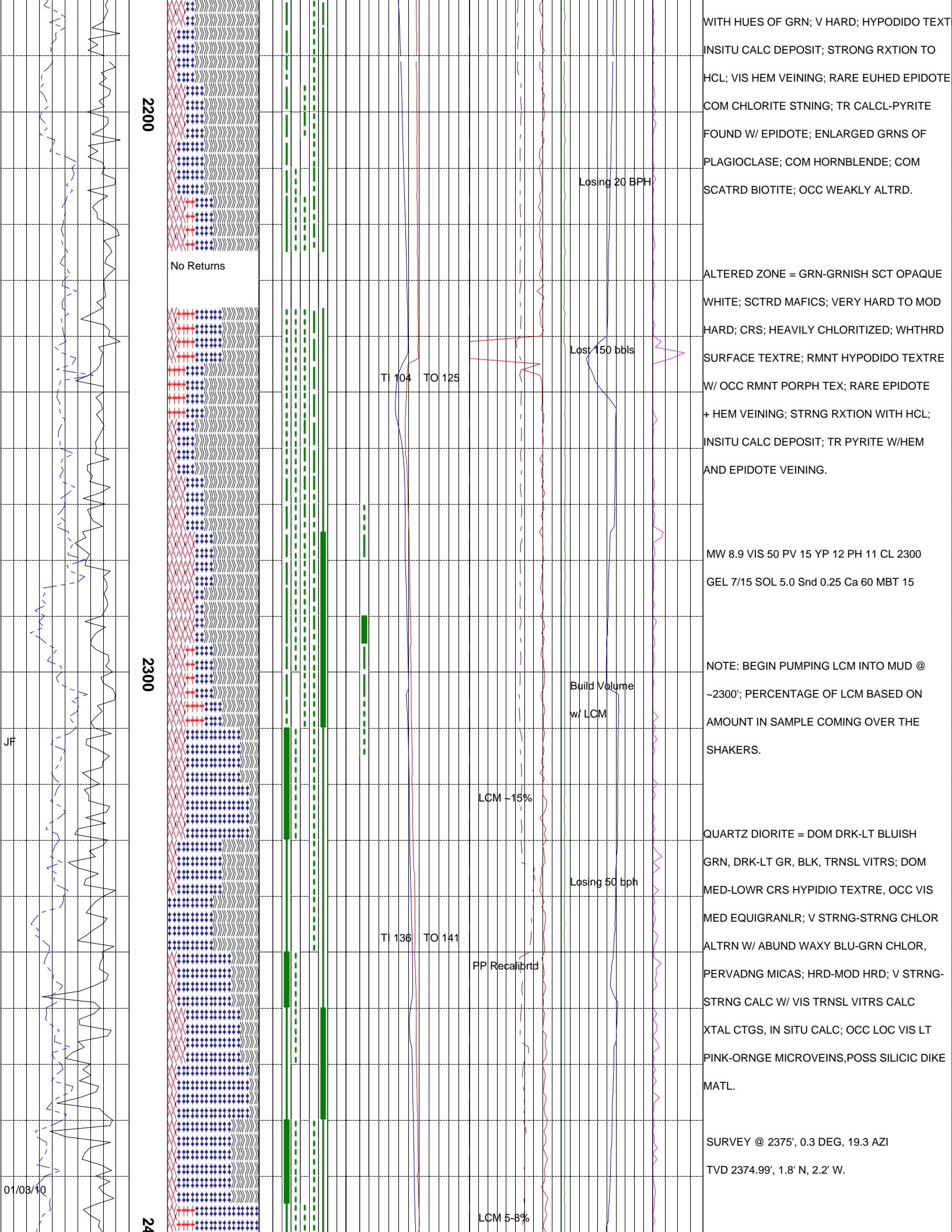
TI 145 TO 159

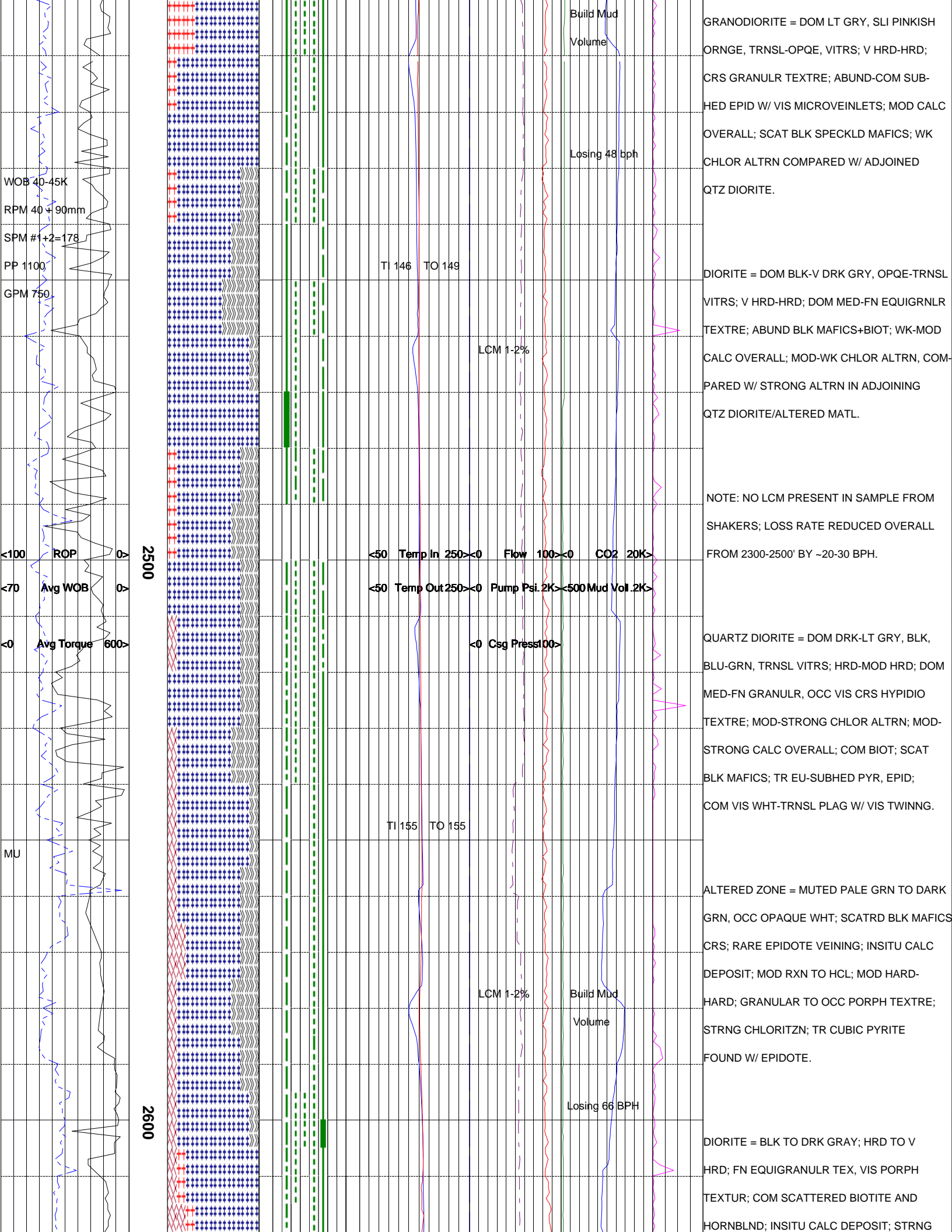
JF  
01/01/10

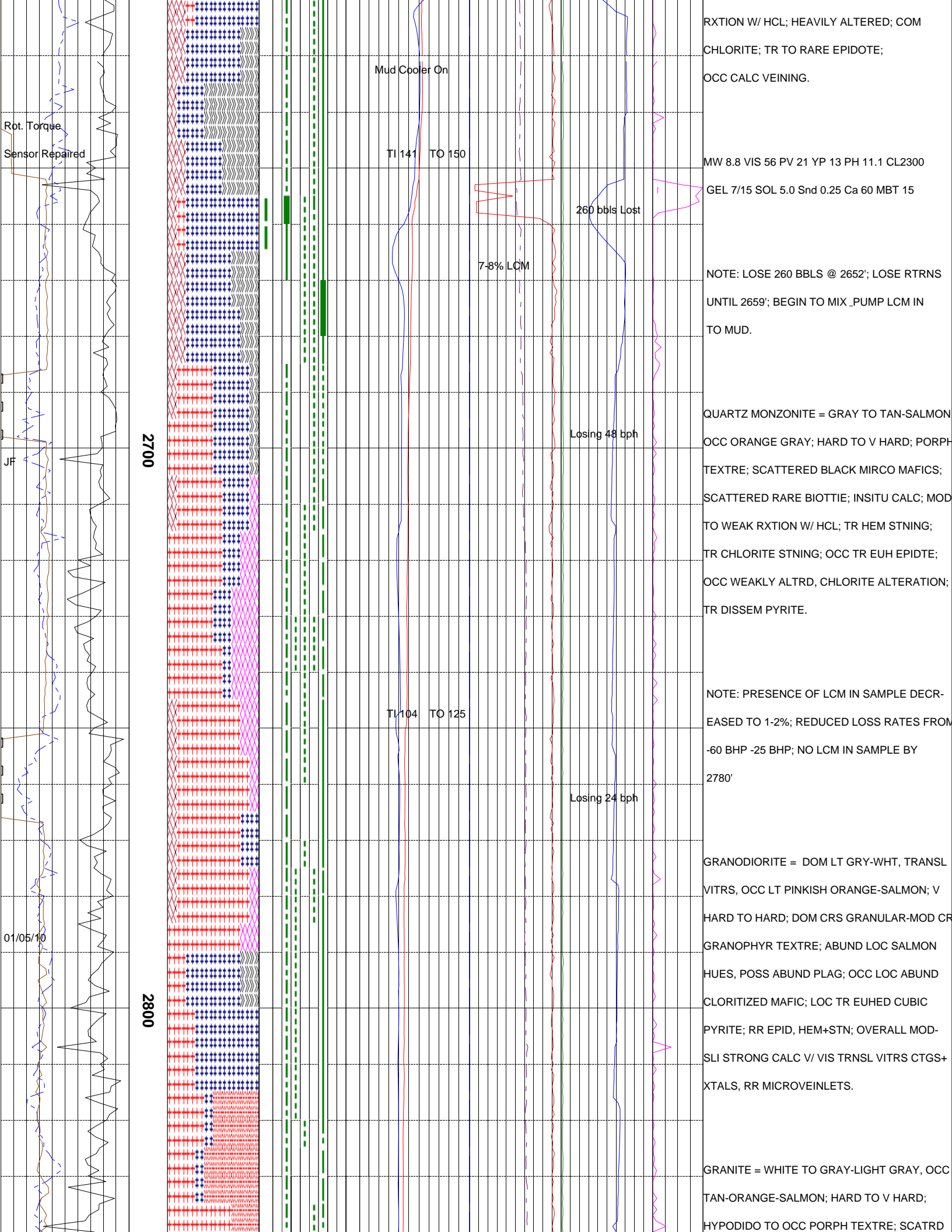












Rot. Torque

Sensor Repaired

JF

01/05/10

2700

2800

Mud Cooler On

TI 141 TO 150

260 bbls Lost

7-8% LCM

Losing 48 bph

TI 104 TO 125

Losing 24 bph

RXTION W/ HCL; HEAVILY ALTERED; COM

CHLORITE; TR TO RARE EPIDOTE;

OCC CALC VEINING.

MW 8.8 VIS 56 PV 21 YP 13 PH 11.1 CL2300

GEL 7/15 SOL 5.0 Snd 0.25 Ca 60 MBT 15

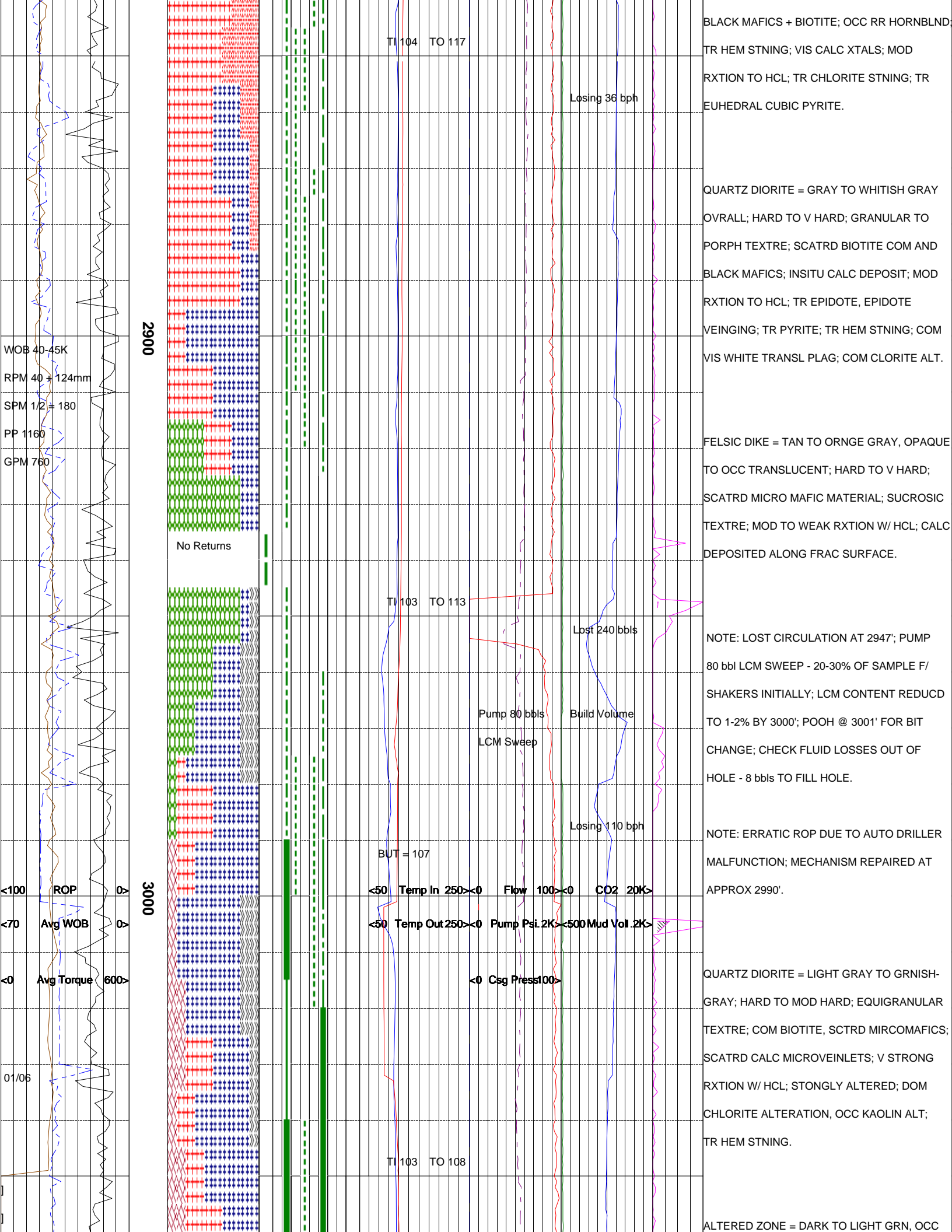
NOTE: LOSE 260 BBLs @ 2652'; LOSE RTRNS  
UNTIL 2659'; BEGIN TO MIX \_PUMP LCM IN  
TO MUD.

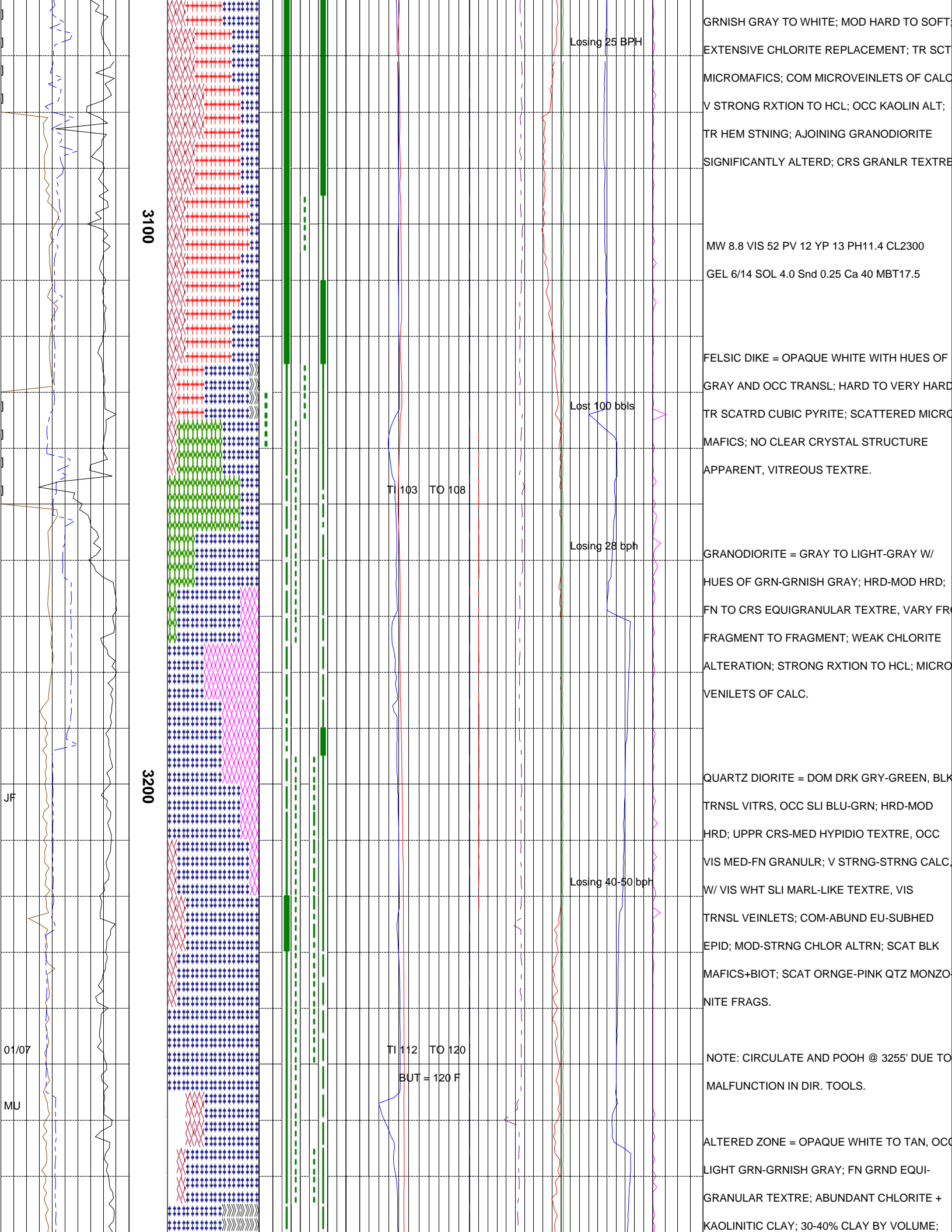
QUARTZ MONZONITE = GRAY TO TAN-SALMON  
OCC ORANGE GRAY; HARD TO V HARD; PORPH  
TEXTRE; SCATTERED BLACK MIRCO MAFICS;  
SCATTERED RARE BIOTTIE; INSITU CALC; MOD  
TO WEAK RXTION W/ HCL; TR HEM STNING;  
TR CHLORITE STNING; OCC TR EUH EPIDTE;  
OCC WEAKLY ALTRD, CHLORITE ALTERATION;  
TR DISSEM PYRITE.

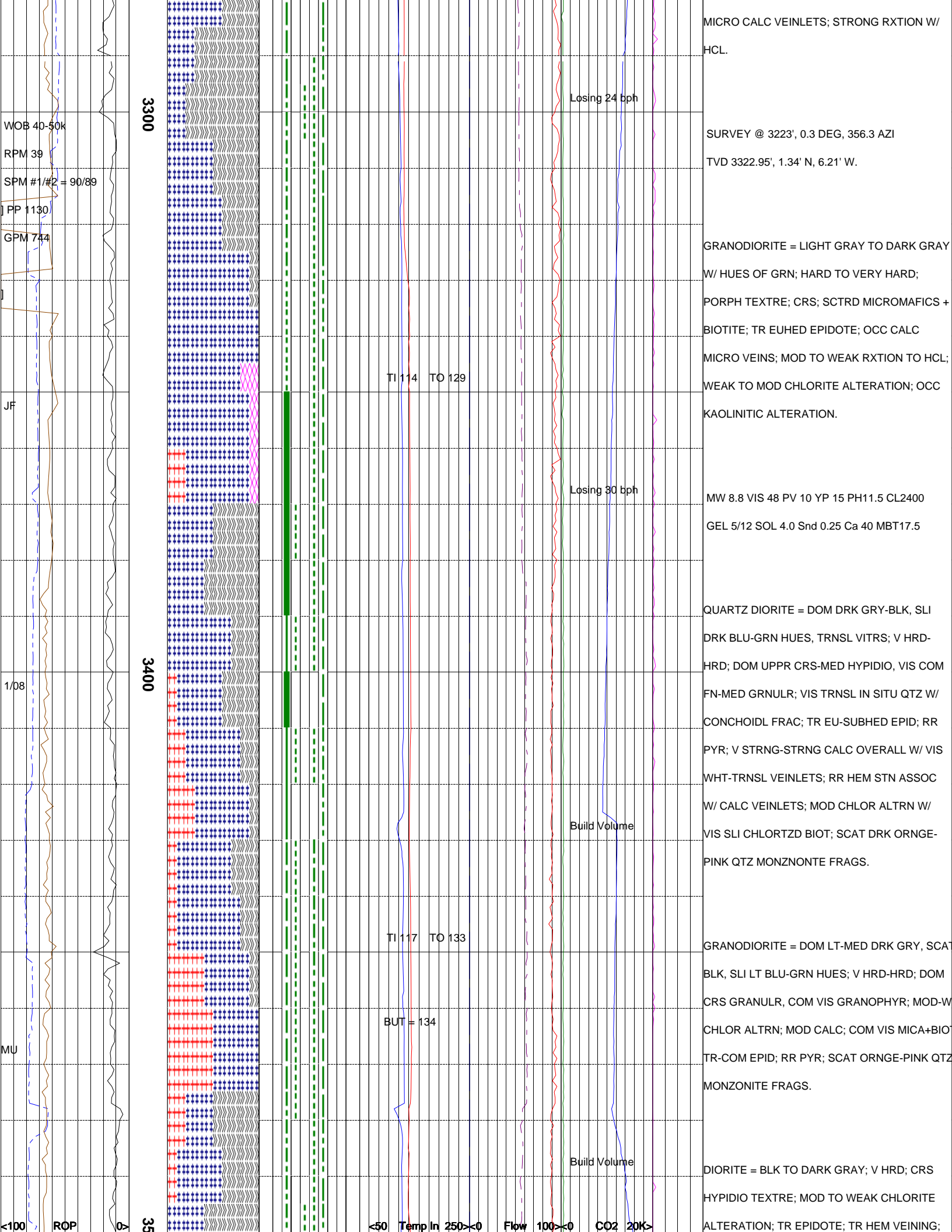
NOTE: PRESENCE OF LCM IN SAMPLE DECR-  
EASED TO 1-2%; REDUCED LOSS RATES FROM  
-60 BHP -25 BHP; NO LCM IN SAMPLE BY  
2780'

GRANODIORITE = DOM LT GRY-WHT, TRANSL  
VITRS, OCC LT PINKISH ORANGE-SALMON; V  
HARD TO HARD; DOM CRS GRANULAR-MOD CR  
GRANOPHYR TEXTRE; ABUND LOC SALMON  
HUES, POSS ABUND PLAG; OCC LOC ABUND  
CLORITIZED MAFIC; LOC TR EUHED CUBIC  
PYRITE; RR EPID, HEM+STN; OVERALL MOD-  
SLI STRONG CALC V/ VIS TRNSL VITRS CTGS+  
XTALS, RR MICROVEINLETS.

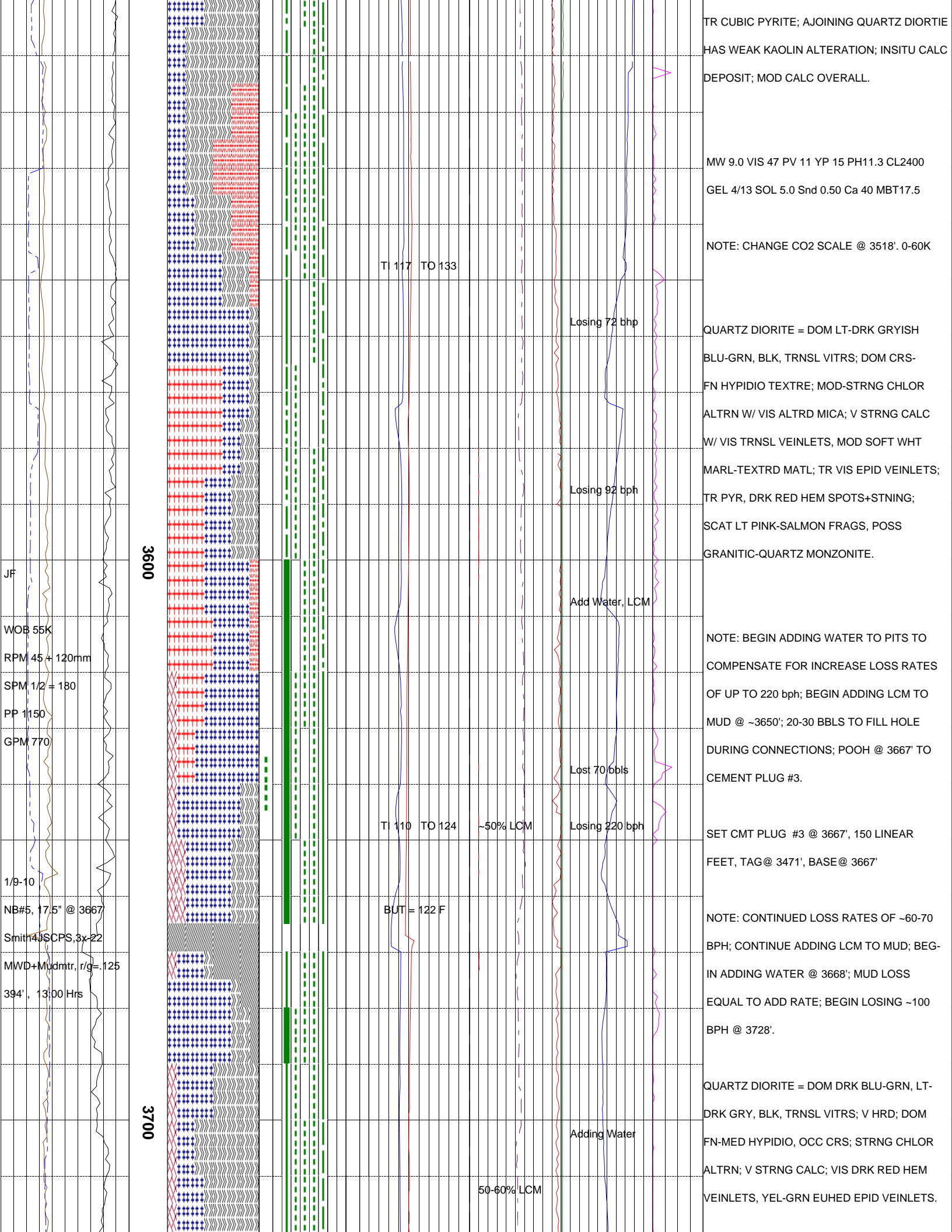
GRANITE = WHITE TO GRAY-LIGHT GRAY, OCC  
TAN-ORANGE-SALMON; HARD TO V HARD;  
HYPODIDO TO OCC PORPH TEXTRE; SCATRD



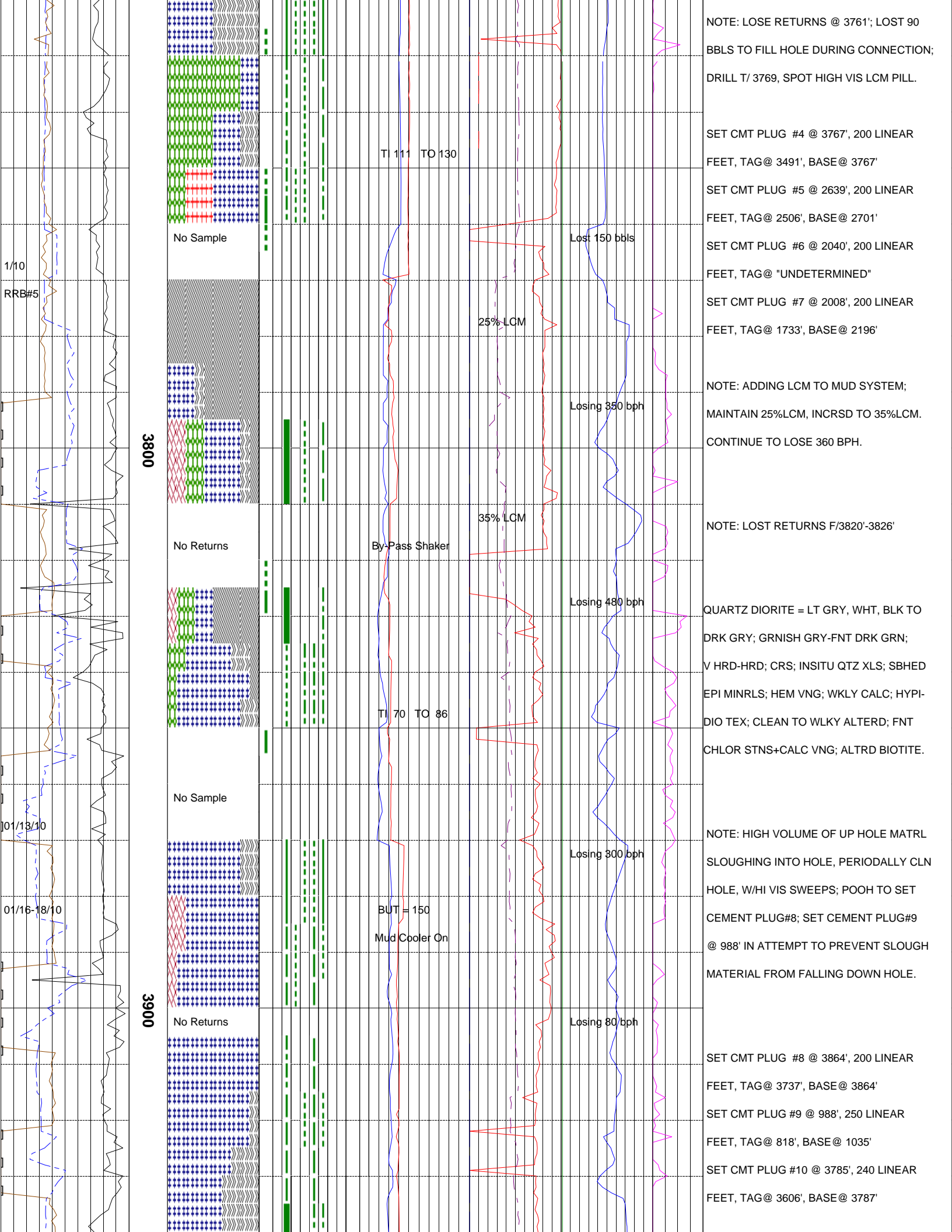


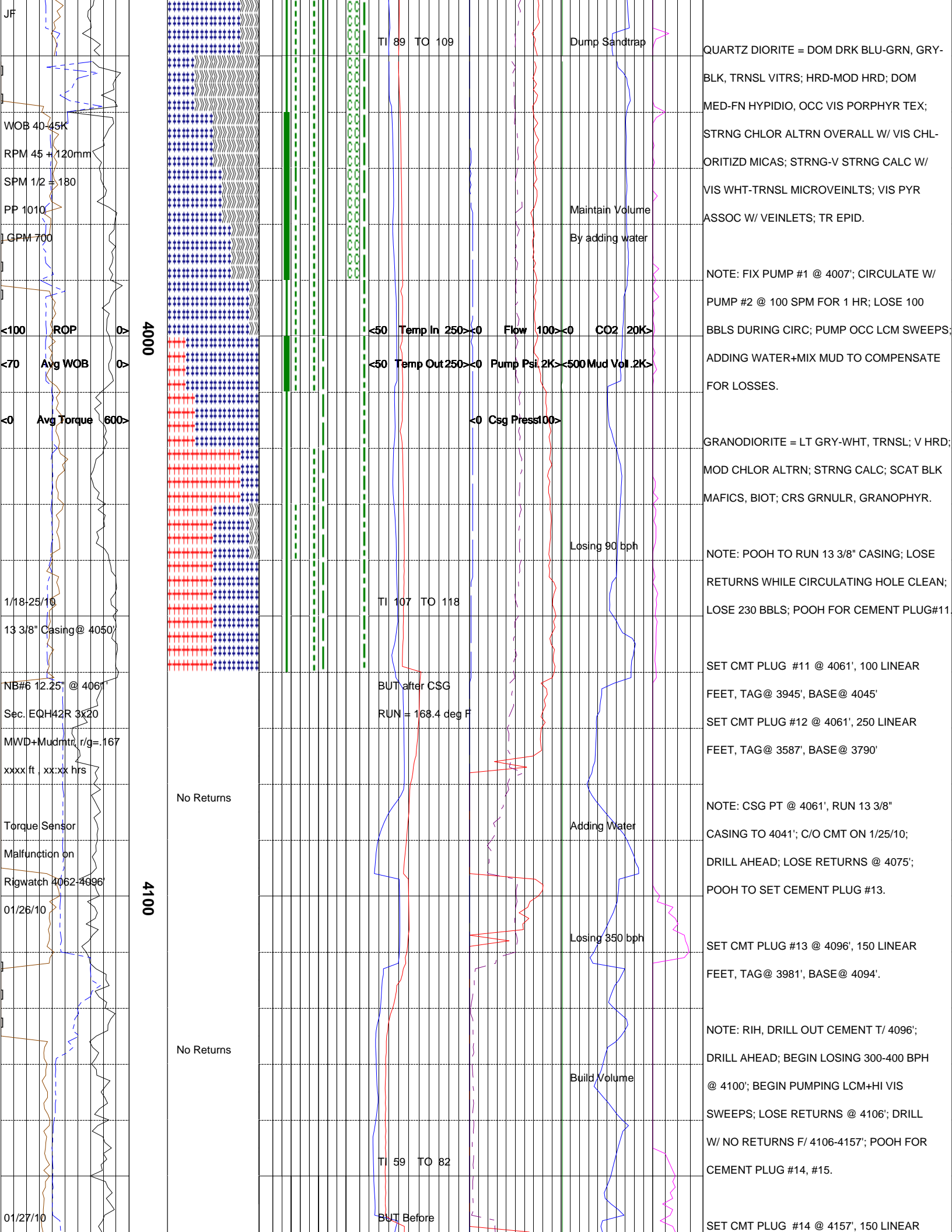


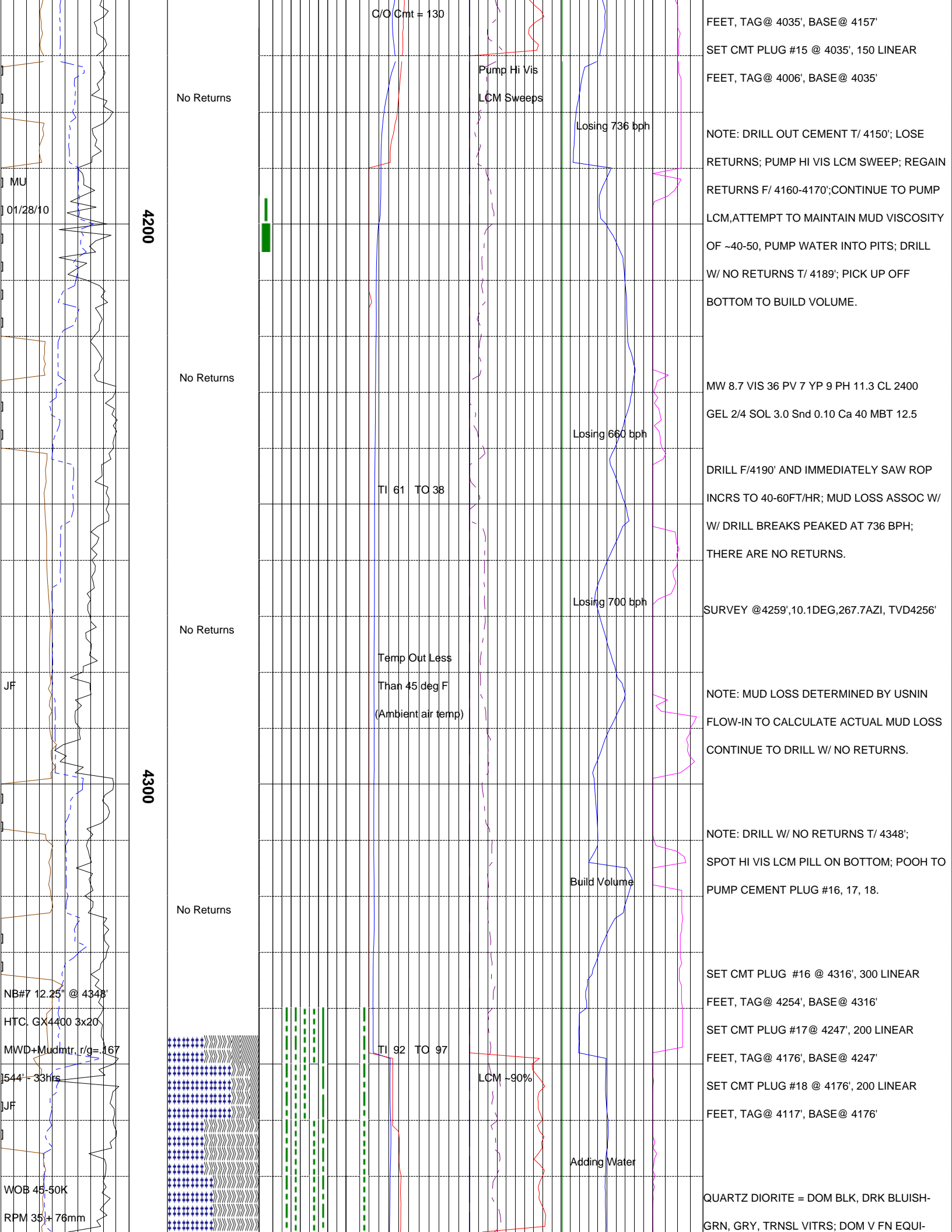


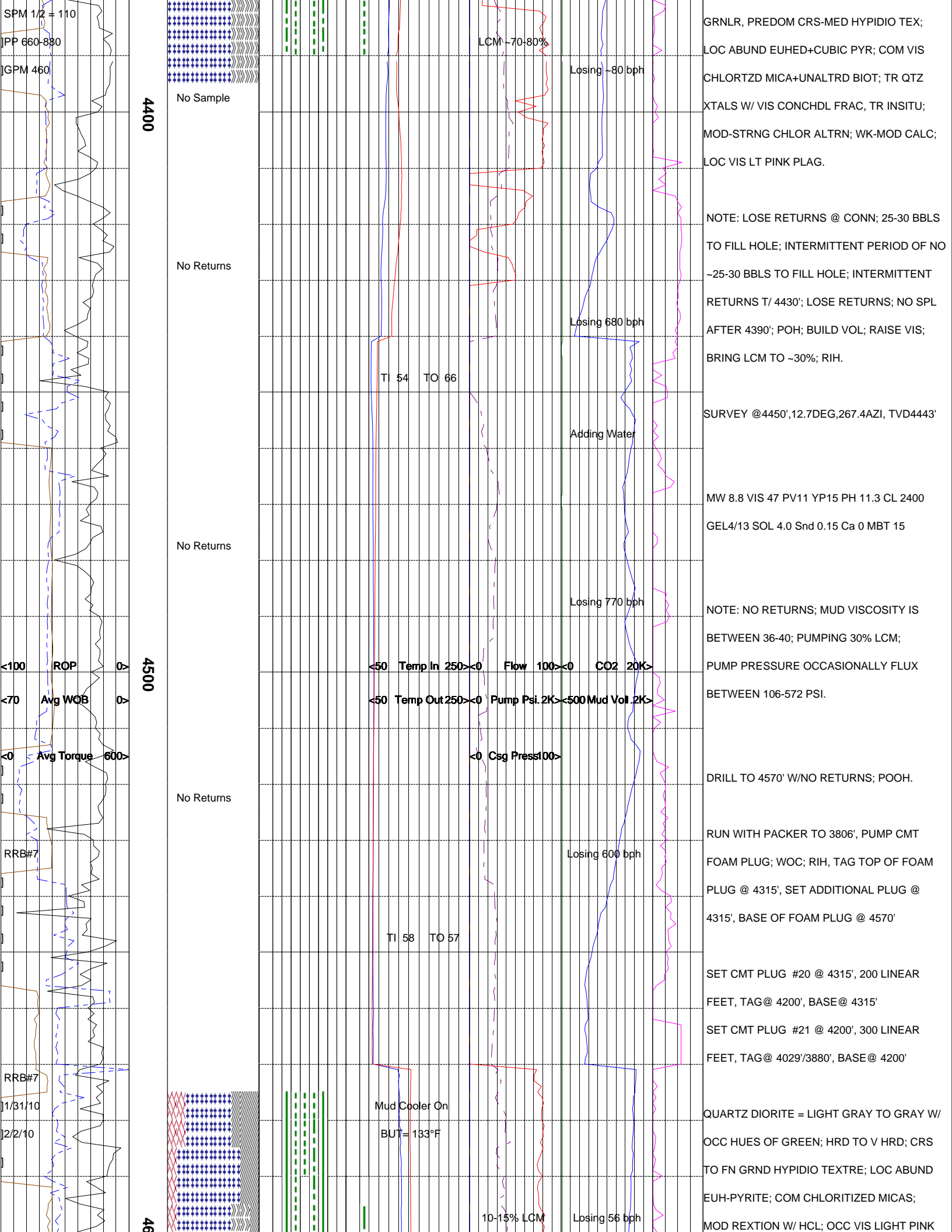


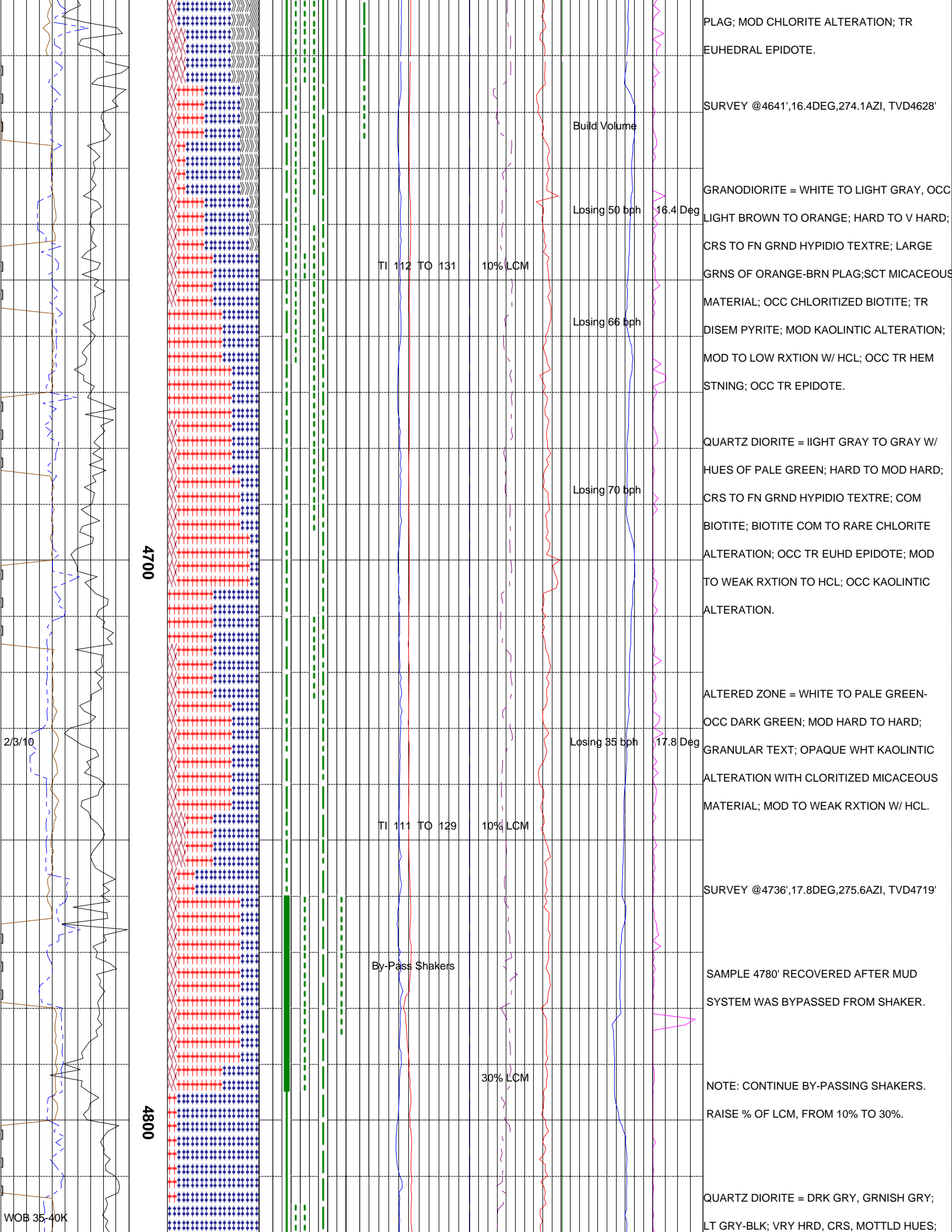


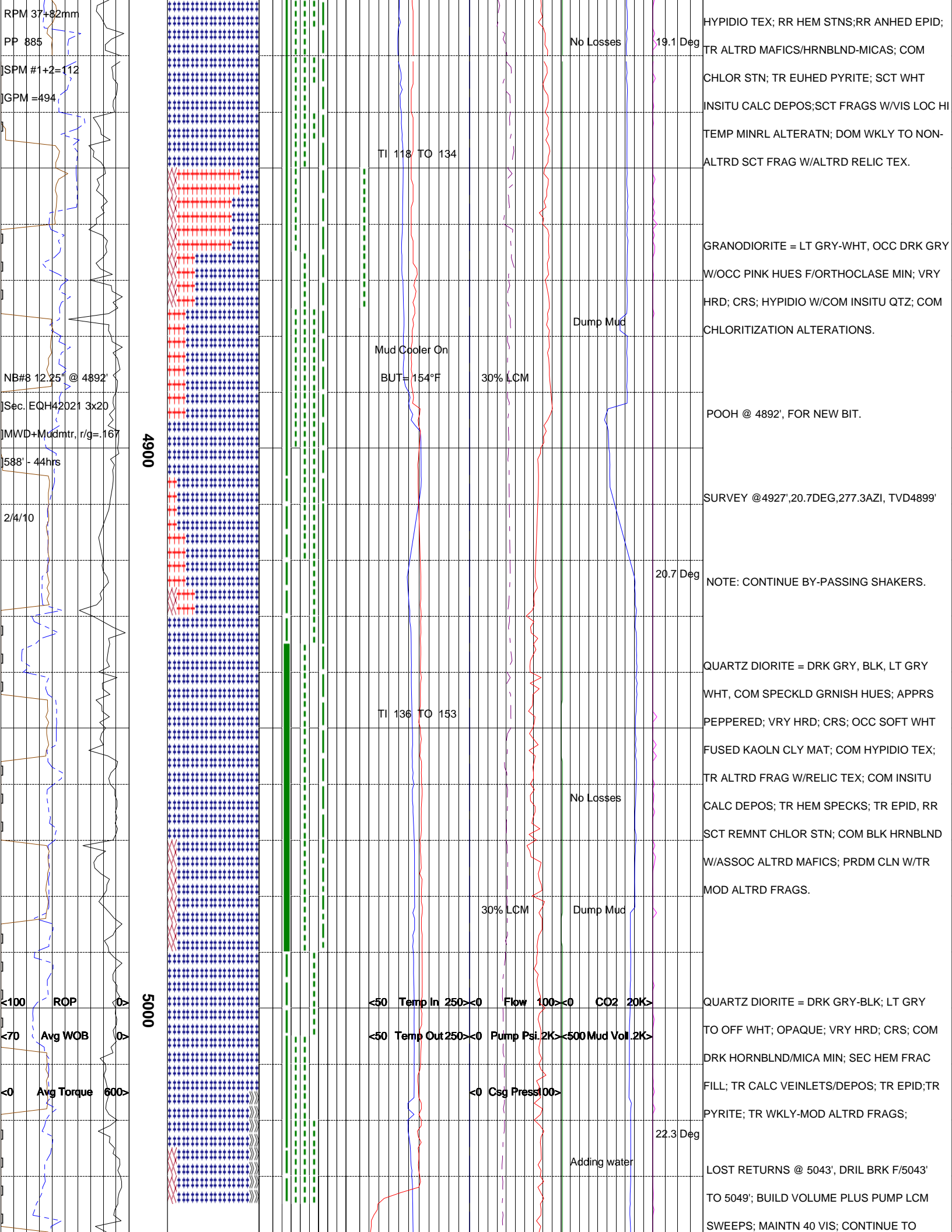


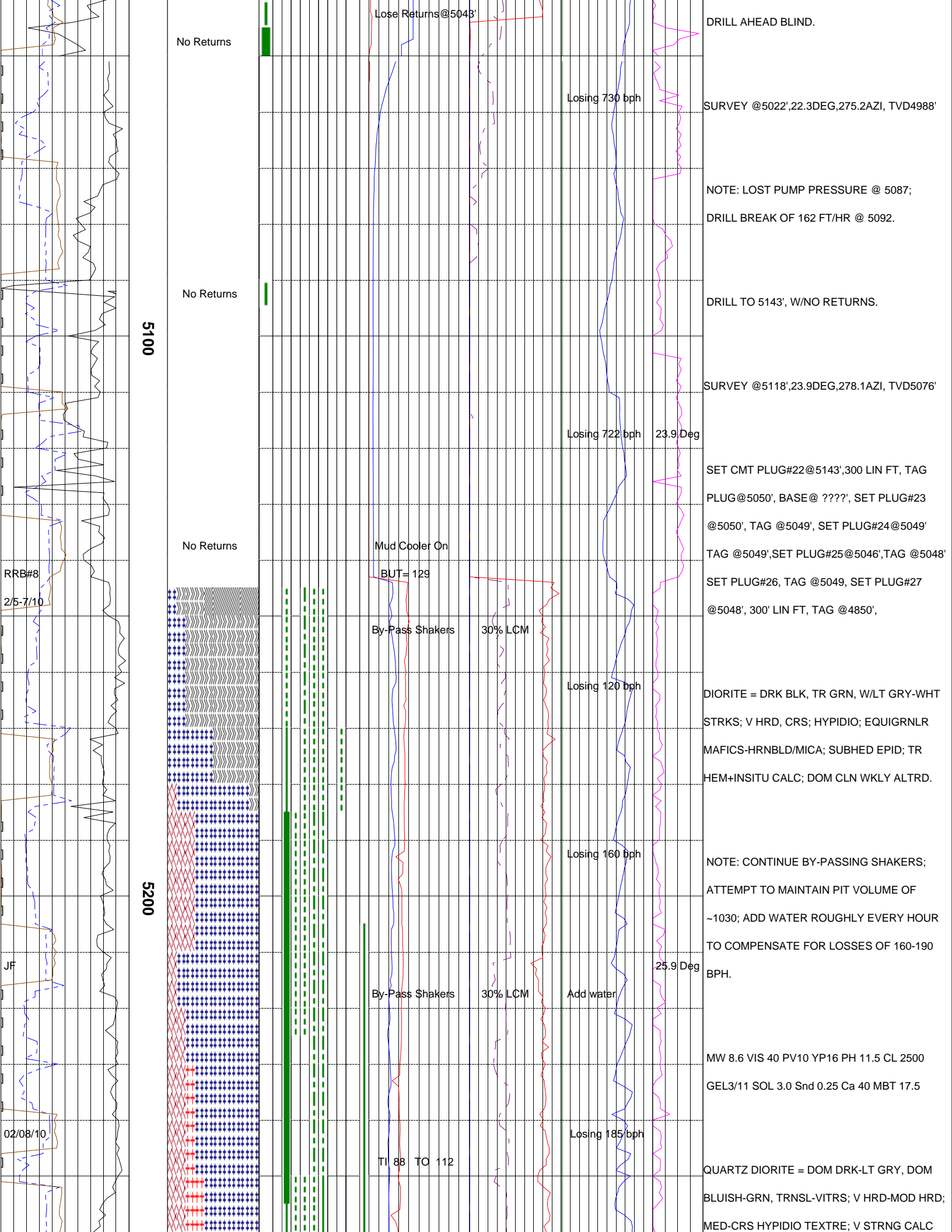




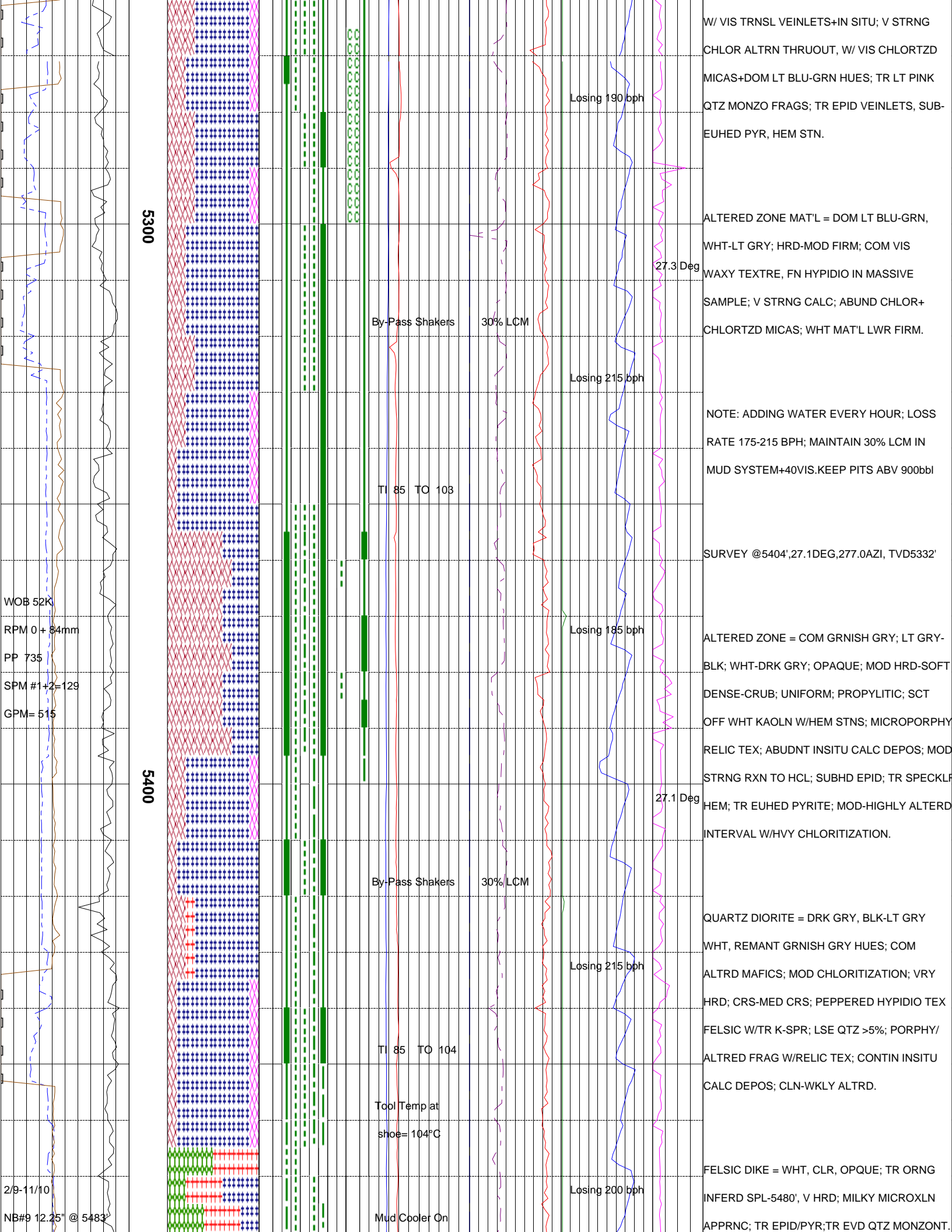


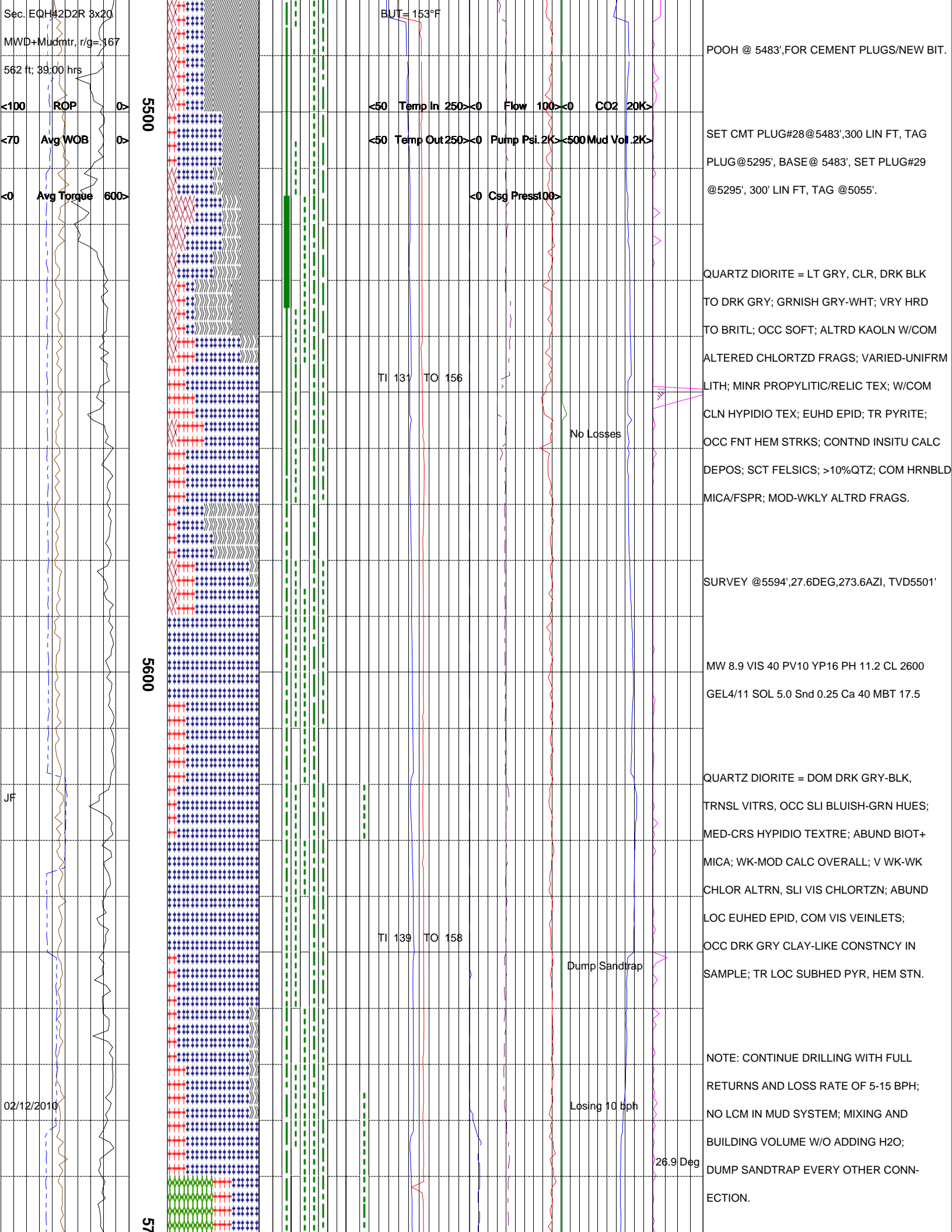


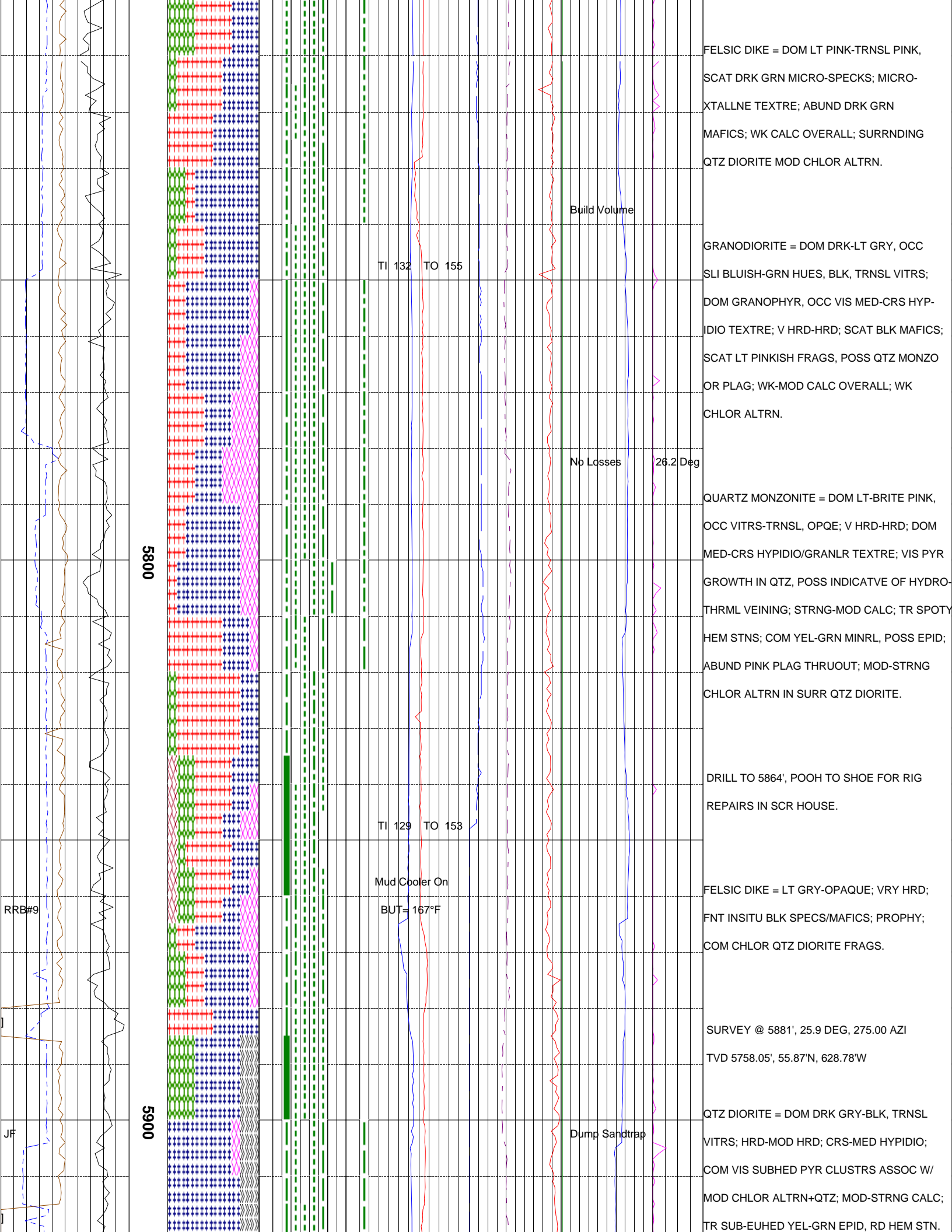












FELSIC DIKE = DOM LT PINK-TRNSL PINK,  
SCAT DRK GRN MICRO-SPECKS; MICRO-  
XTALLNE TEXTRE; ABUND DRK GRN  
MAFICS; WK CALC OVERALL; SURROUNDING  
QTZ DIORITE MOD CHLOR ALTRN.

Build Volume

TI 132 TO 155

GRANODIORITE = DOM DRK-LT GRY, OCC  
SLI BLUISH-GRN HUES, BLK, TRNSL VITRS;  
DOM GRANOPHYR, OCC VIS MED-CRS HYP-  
IDIO TEXTRE; V HRD-HRD; SCAT BLK MAFICS;  
SCAT LT PINKISH FRAGS, POSS QTZ MONZO  
OR PLAG; WK-MOD CALC OVERALL; WK  
CHLOR ALTRN.

No Losses

26.2 Deg

QUARTZ MONZONITE = DOM LT-BRITE PINK,  
OCC VITRS-TRNSL, OPQE; V HRD-HRD; DOM  
MED-CRS HYPIDIO/GRANLR TEXTRE; VIS PYR  
GROWTH IN QTZ, POSS INDICATIVE OF HYDRO-  
THRML VEINING; STRNG-MOD CALC; TR SPOTY  
HEM STNS; COM YEL-GRN MINRL, POSS EPID;  
ABUND PINK PLAG THRUOUT; MOD-STRNG  
CHLOR ALTRN IN SURR QTZ DIORITE.

TI 129 TO 153

DRILL TO 5864', POOH TO SHOE FOR RIG  
REPAIRS IN SCR HOUSE.

Mud Cooler On

BUT= 167°F

FELSIC DIKE = LT GRY-OPAQUE; VRY HRD;  
FNT INSITU BLK SPECS/MAFICS; PROPHY;  
COM CHLOR QTZ DIORITE FRAGS.

SURVEY @ 5881', 25.9 DEG, 275.00 AZI

TVD 5758.05', 55.87°N, 628.78°W

QTZ DIORITE = DOM DRK GRY-BLK, TRNSL  
VITRS; HRD-MOD HRD; CRS-MED HYPIDIO;  
COM VIS SUBHED PYR CLUSTRS ASSOC W/  
MOD CHLOR ALTRN+QTZ; MOD-STRNG CALC;  
TR SUB-EUHED YEL-GRN EPID, RD HEM STN.

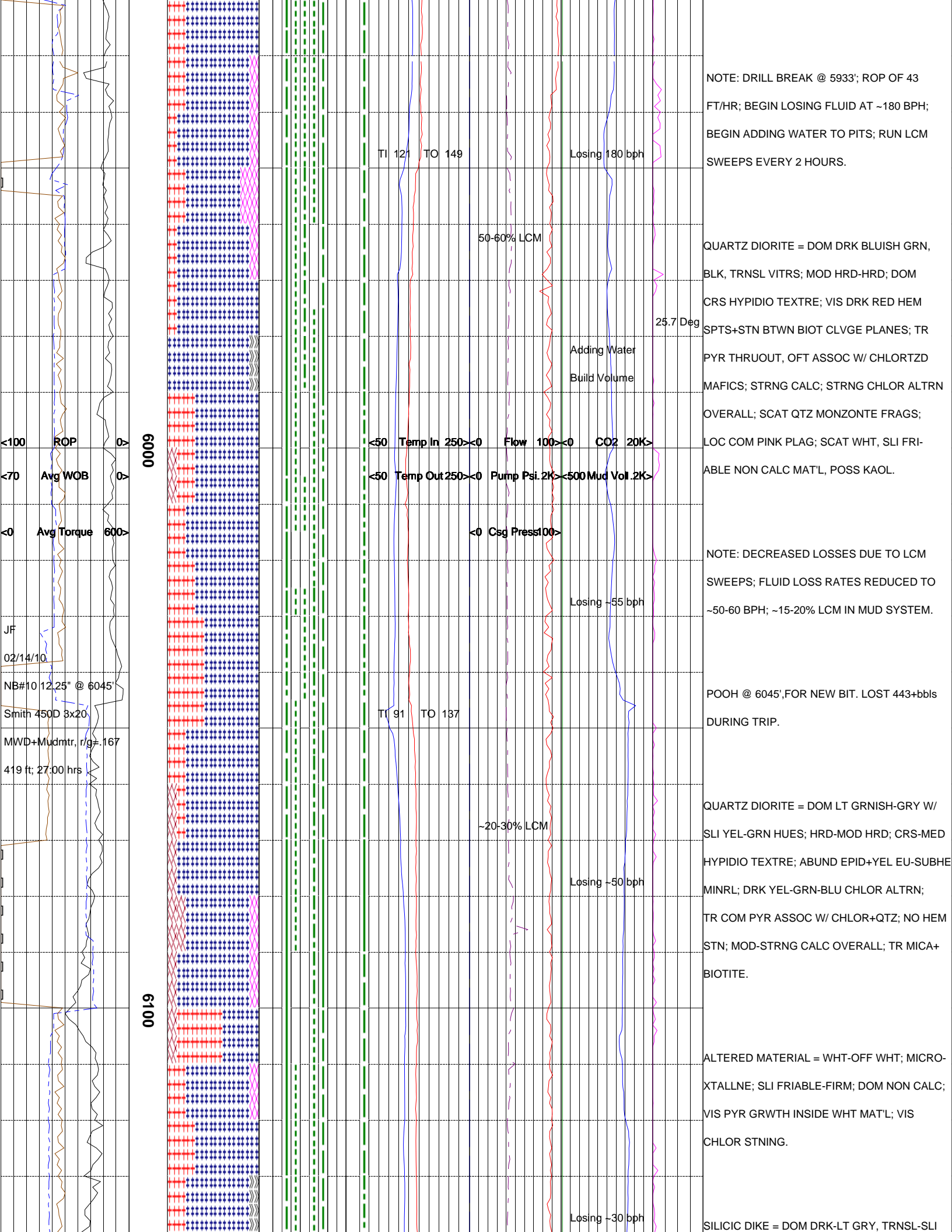
Dump Sandtrap

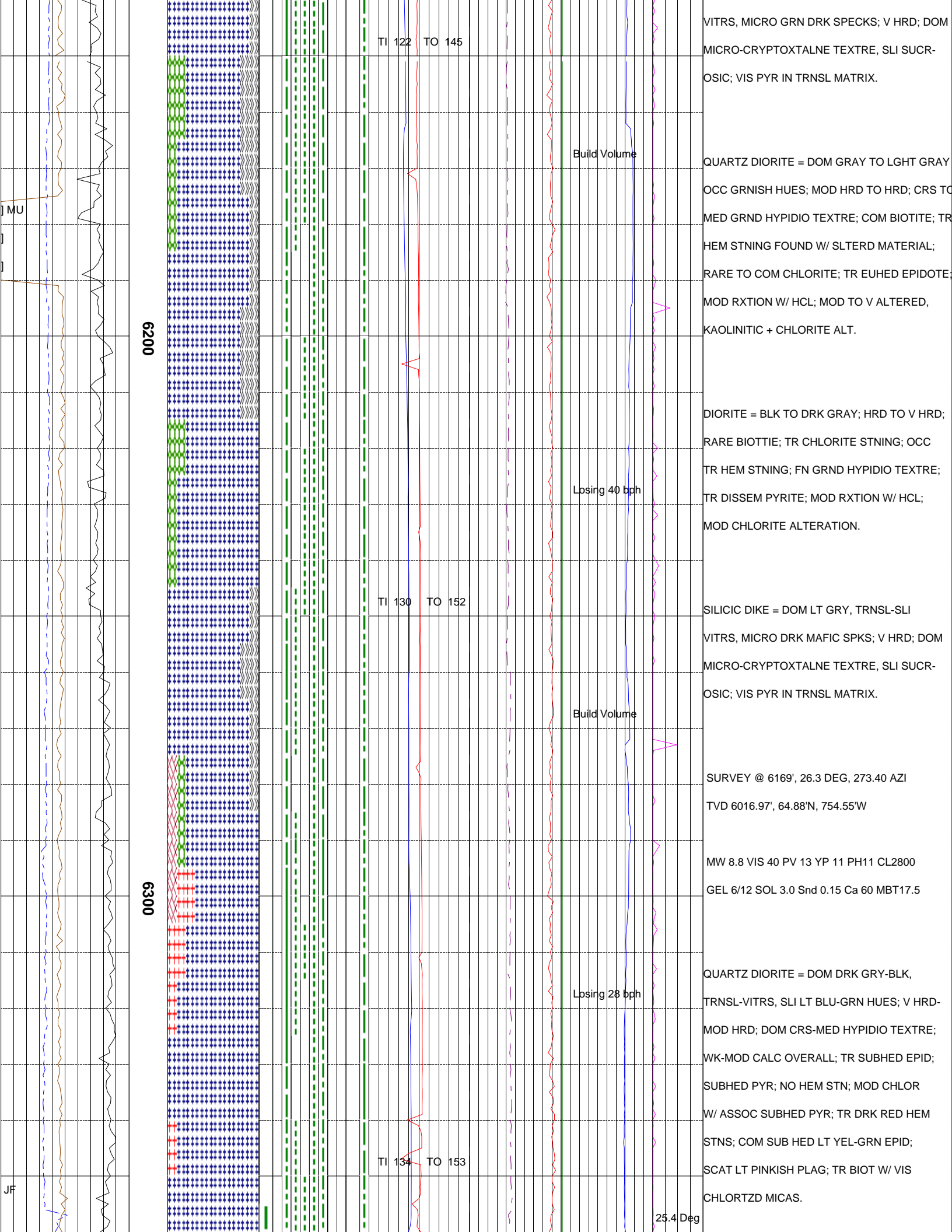
5800

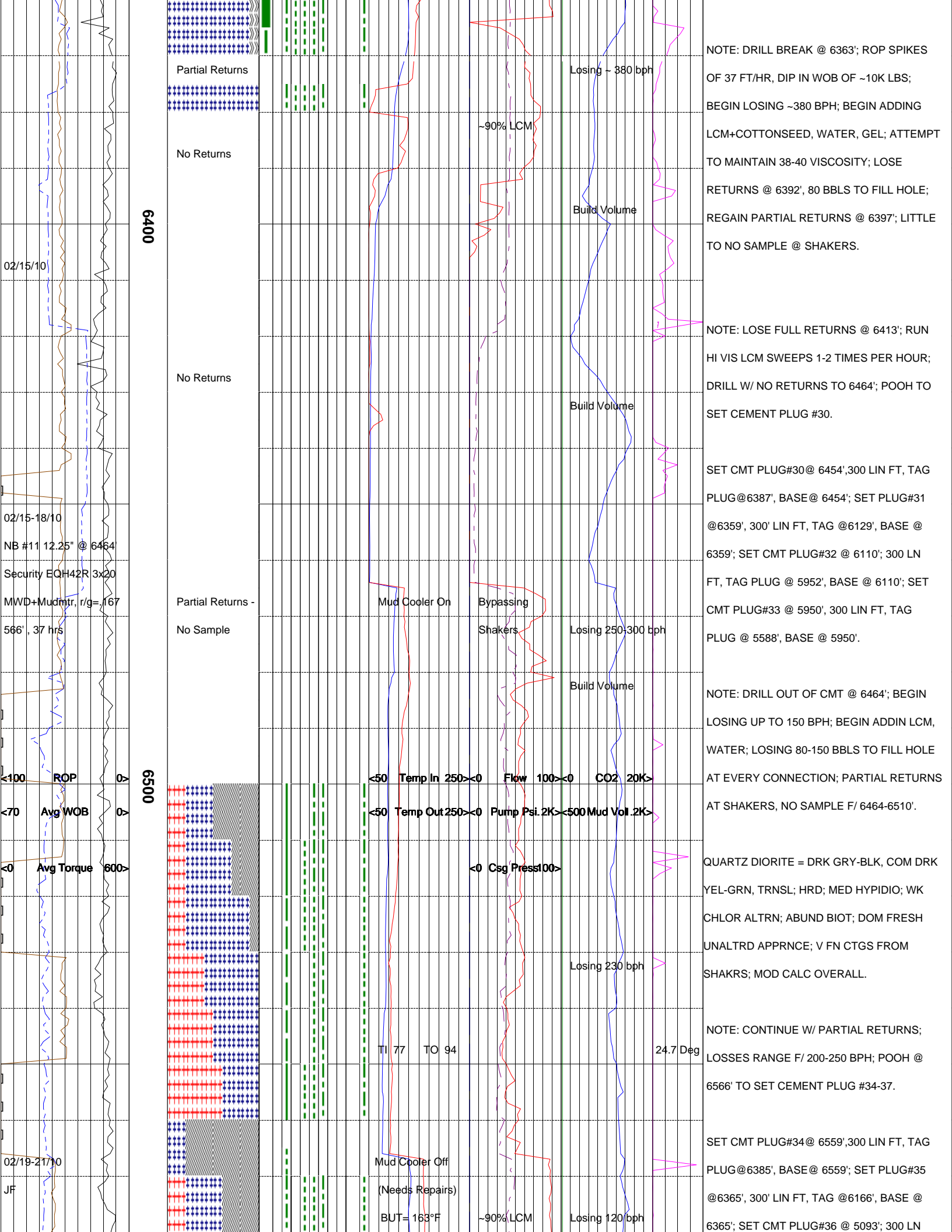
5900

RRB#9

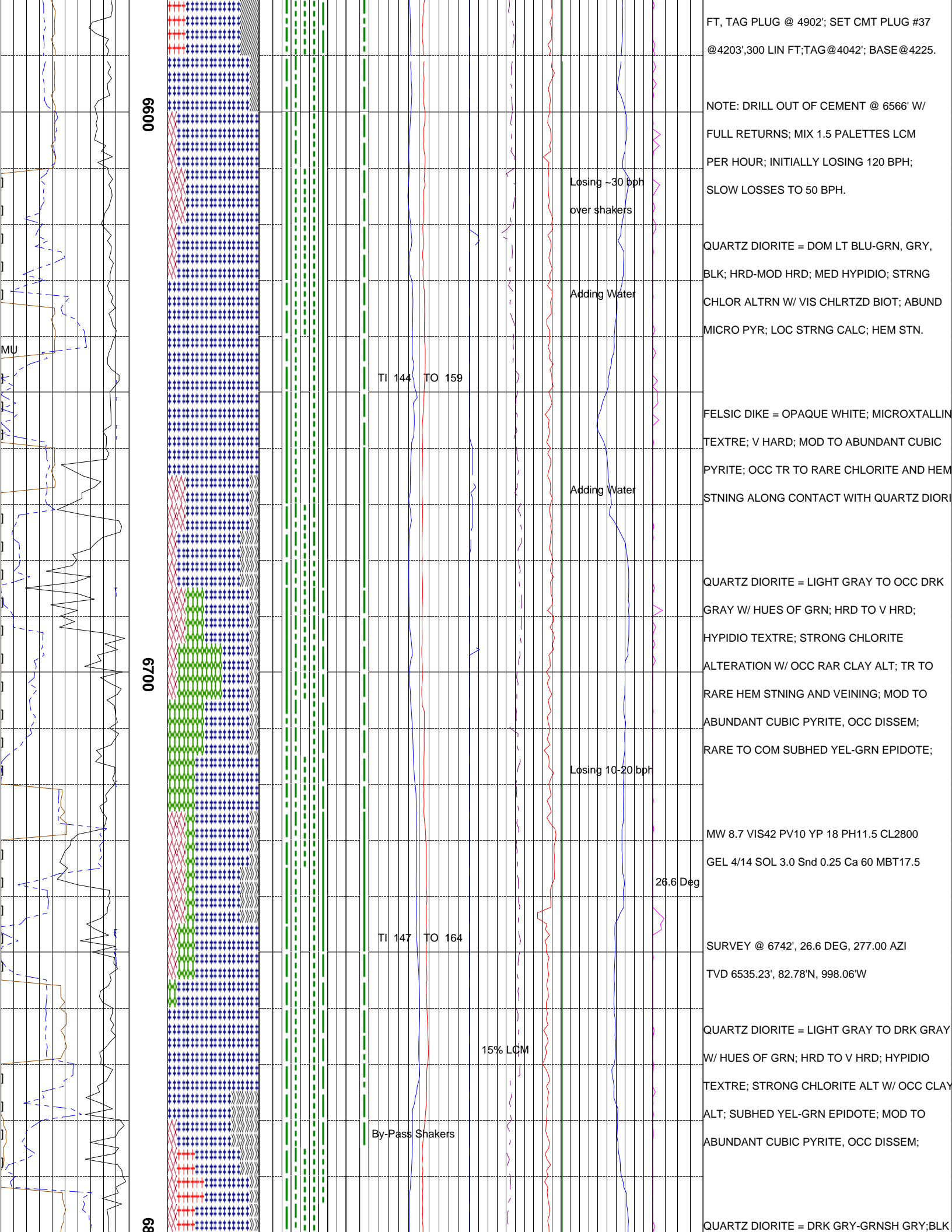
JF











FT, TAG PLUG @ 4902'; SET CMT PLUG #37  
@4203',300 LIN FT;TAG@4042'; BASE@4225.

NOTE: DRILL OUT OF CEMENT @ 6566' W/  
FULL RETURNS; MIX 1.5 PALETTES LCM  
PER HOUR; INITIALLY LOSING 120 BPH;  
SLOW LOSSES TO 50 BPH.

QUARTZ DIORITE = DOM LT BLU-GRN, GRY,  
BLK; HRD-MOD HRD; MED HYPIDIO; STRNG  
CHLOR ALTRN W/ VIS CHLRTZD BIOT; ABUND  
MICRO PYR; LOC STRNG CALC; HEM STN.

FELSIC DIKE = OPAQUE WHITE; MICROXTALLIN  
TEXTRE; V HARD; MOD TO ABUNDANT CUBIC  
PYRITE; OCC TR TO RARE CHLORITE AND HEM  
STNING ALONG CONTACT WITH QUARTZ DIORITE

QUARTZ DIORITE = LIGHT GRAY TO OCC DRK  
GRAY W/ HUES OF GRN; HRD TO V HRD;  
HYPIDIO TEXTRE; STRONG CHLORITE  
ALTERATION W/ OCC RAR CLAY ALT; TR TO  
RARE HEM STNING AND VEINING; MOD TO  
ABUNDANT CUBIC PYRITE, OCC DISSEM;  
RARE TO COM SUBHED YEL-GRN EPIDOTE;

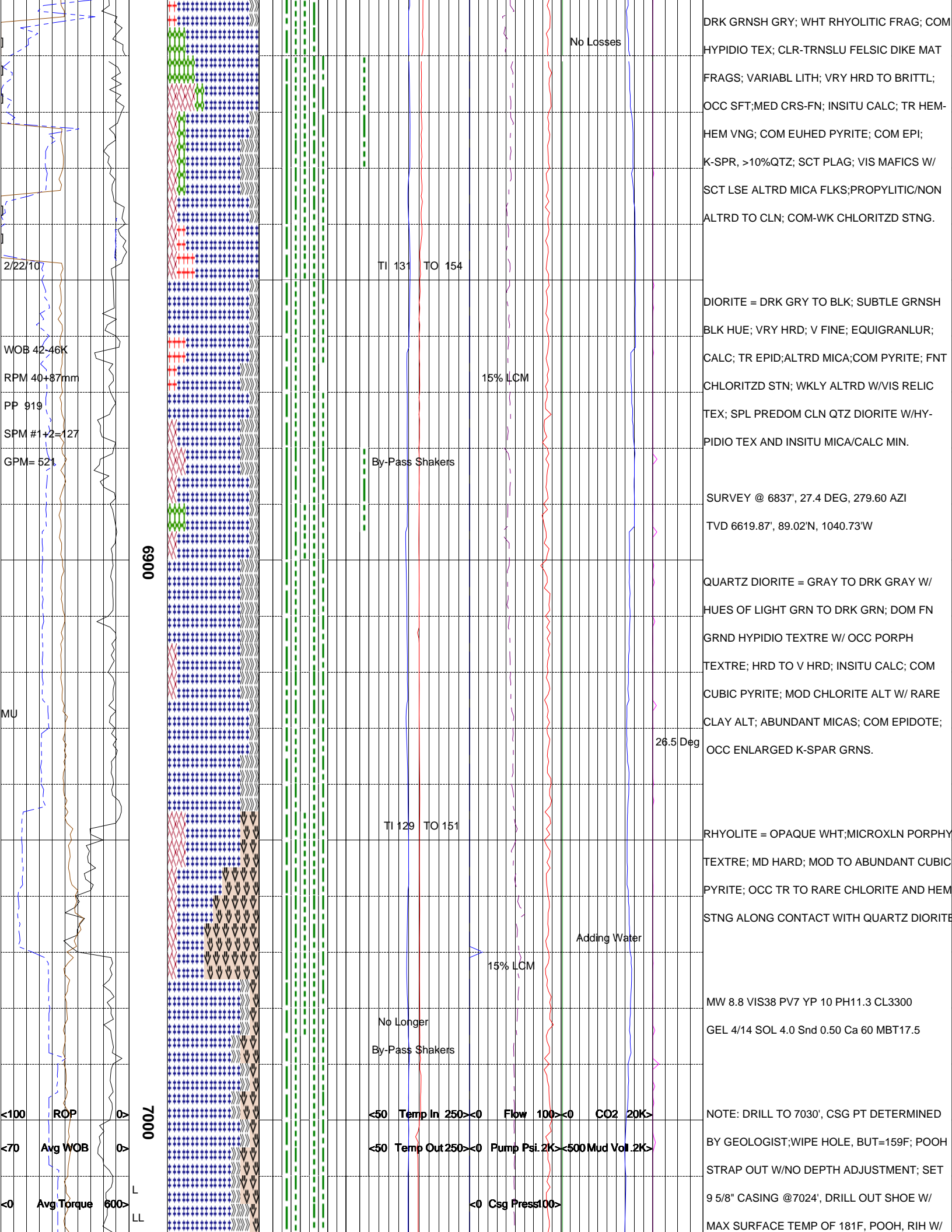
MW 8.7 VIS42 PV10 YP 18 PH11.5 CL2800  
GEL 4/14 SOL 3.0 Snd 0.25 Ca 60 MBT17.5  
26.6 Deg

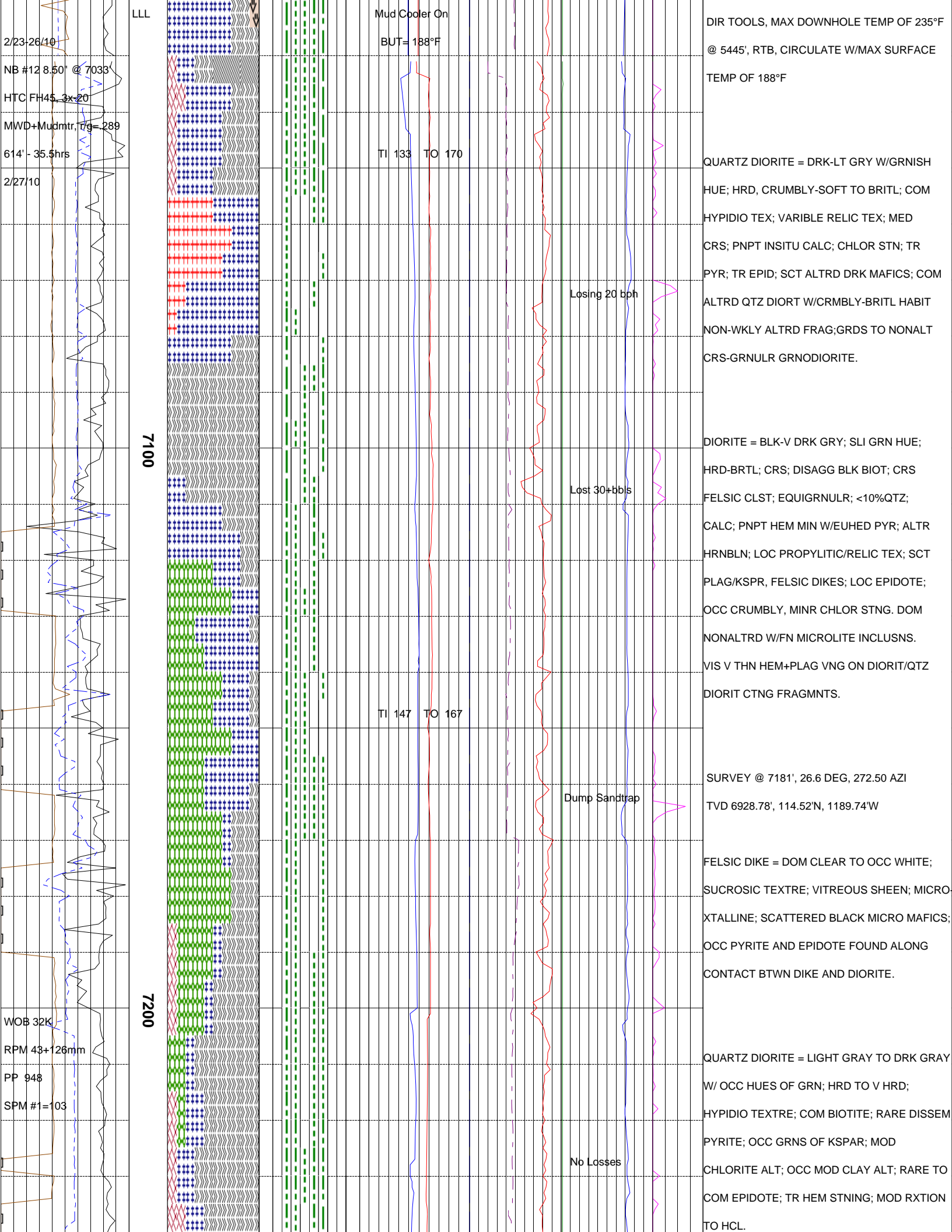
SURVEY @ 6742', 26.6 DEG, 277.00 AZI  
TVD 6535.23', 82.78'N, 998.06'W

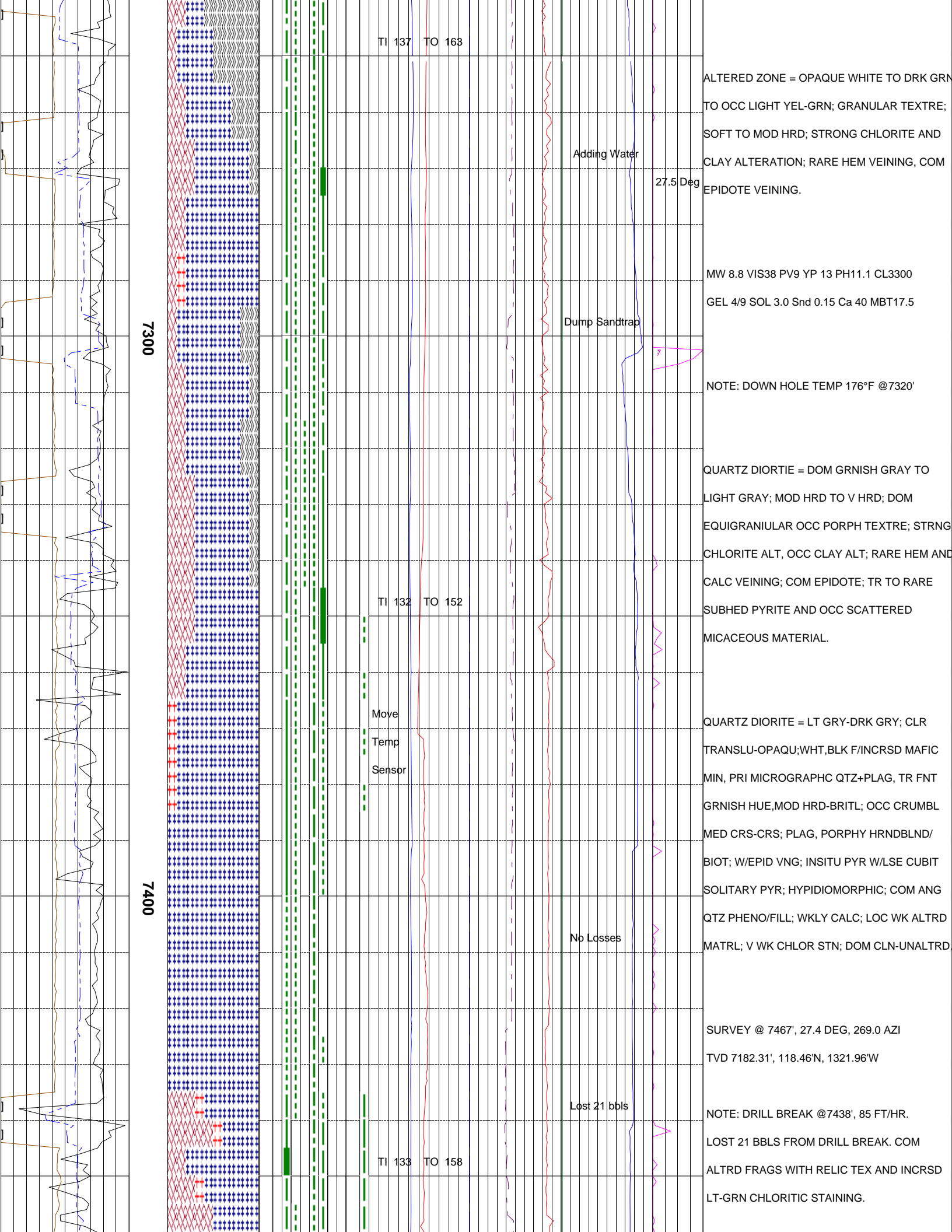
QUARTZ DIORITE = LIGHT GRAY TO DRK GRAY  
W/ HUES OF GRN; HRD TO V HRD; HYPIDIO  
TEXTRE; STRONG CHLORITE ALT W/ OCC CLAY  
ALT; SUBHED YEL-GRN EPIDOTE; MOD TO  
ABUNDANT CUBIC PYRITE, OCC DISSEM;

QUARTZ DIORITE = DRK GRY-GRNSH GRY;BLK

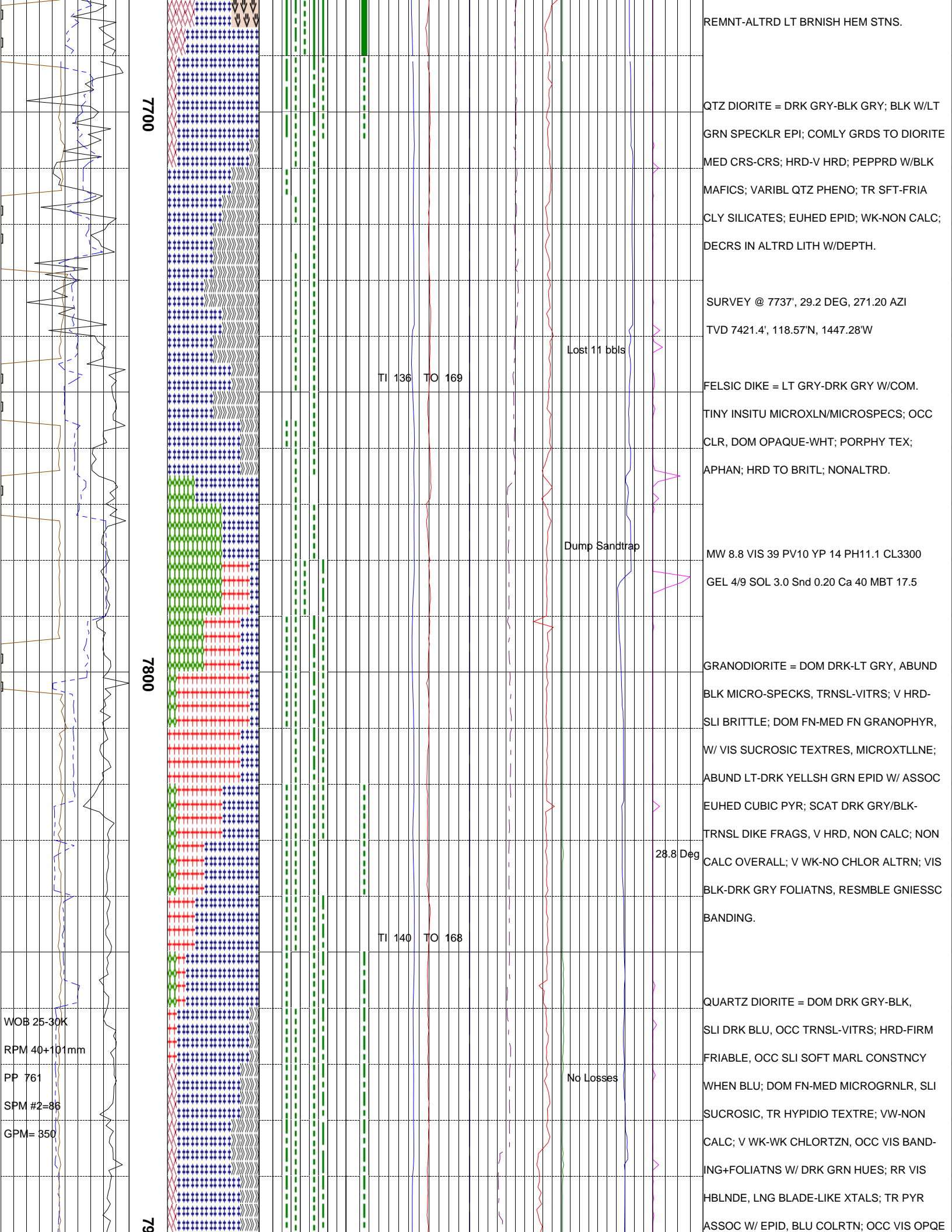


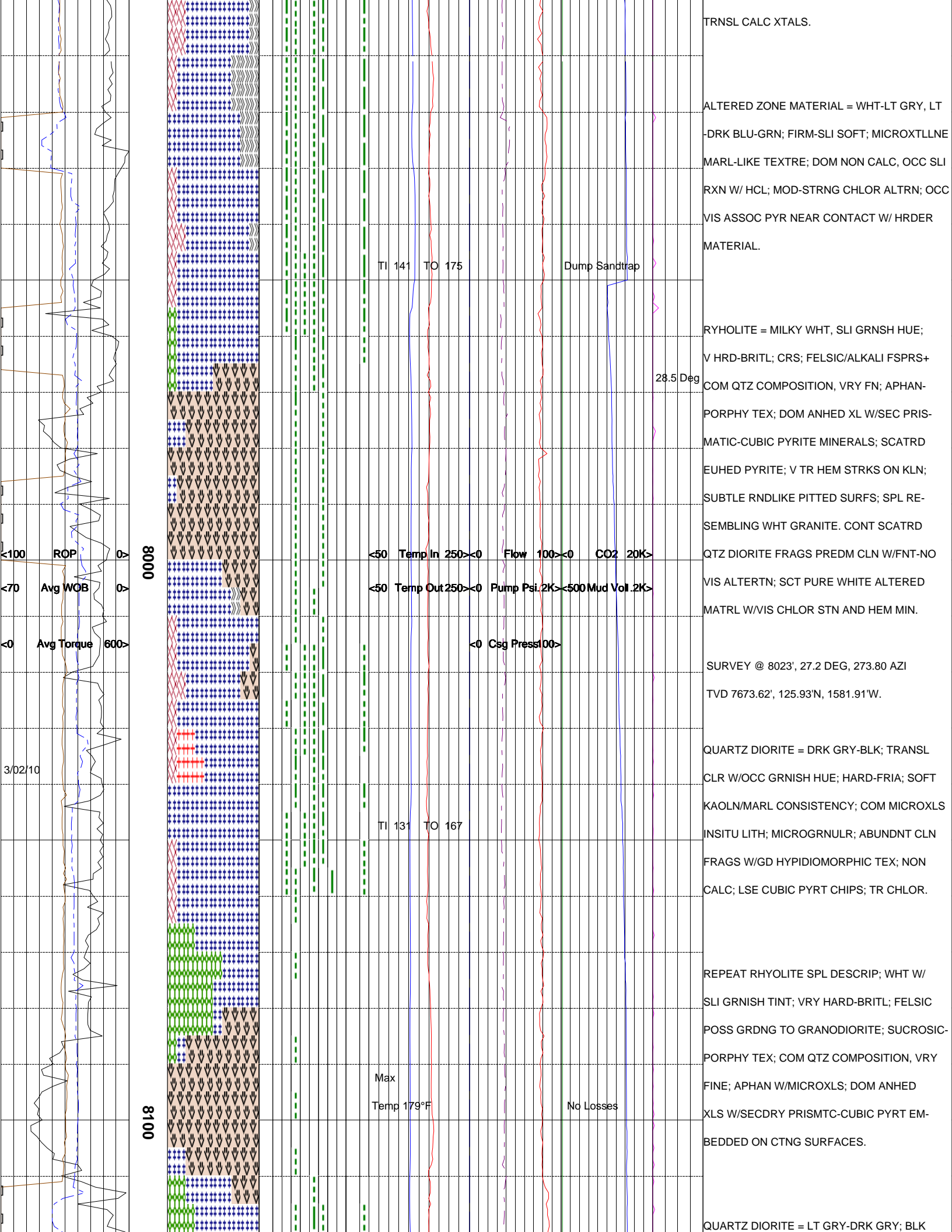




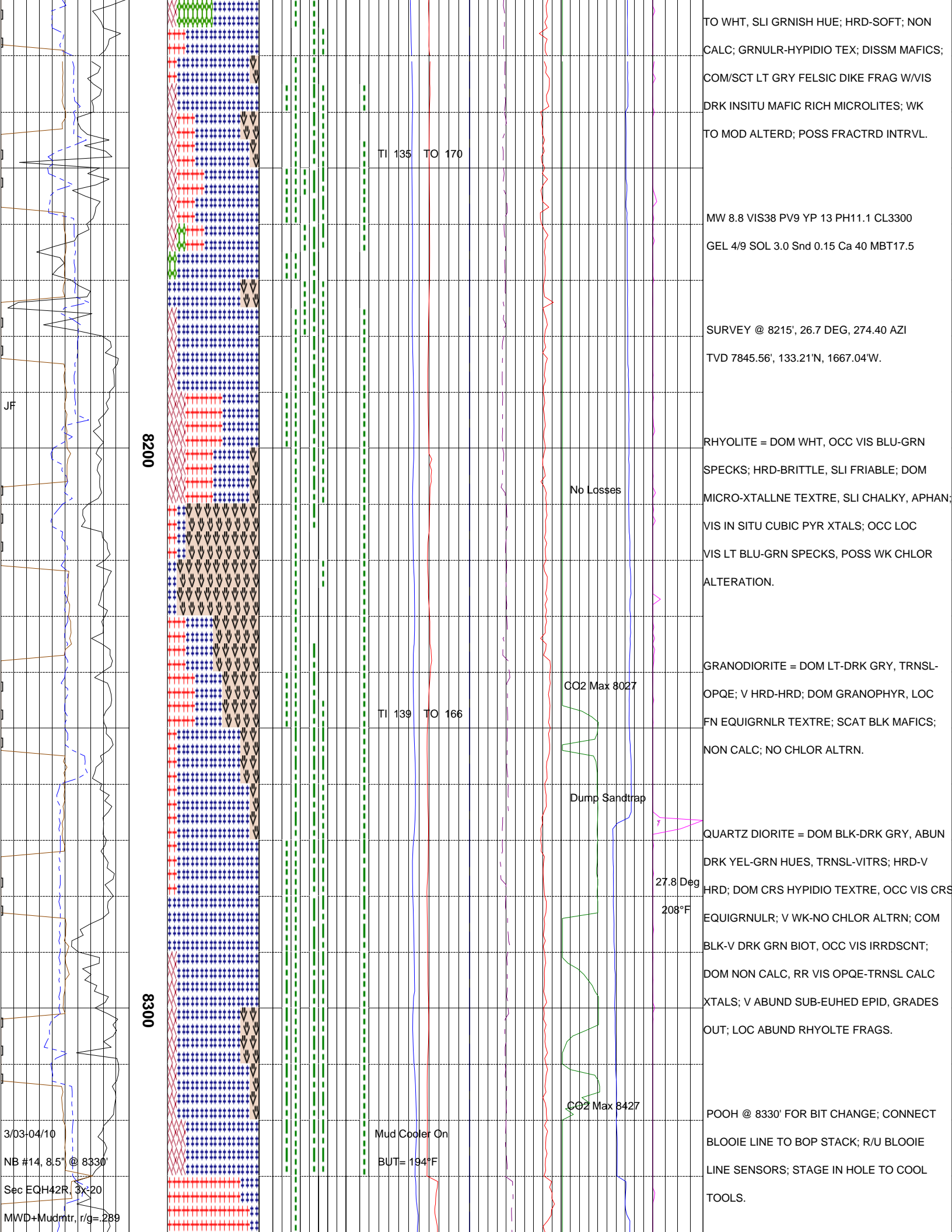


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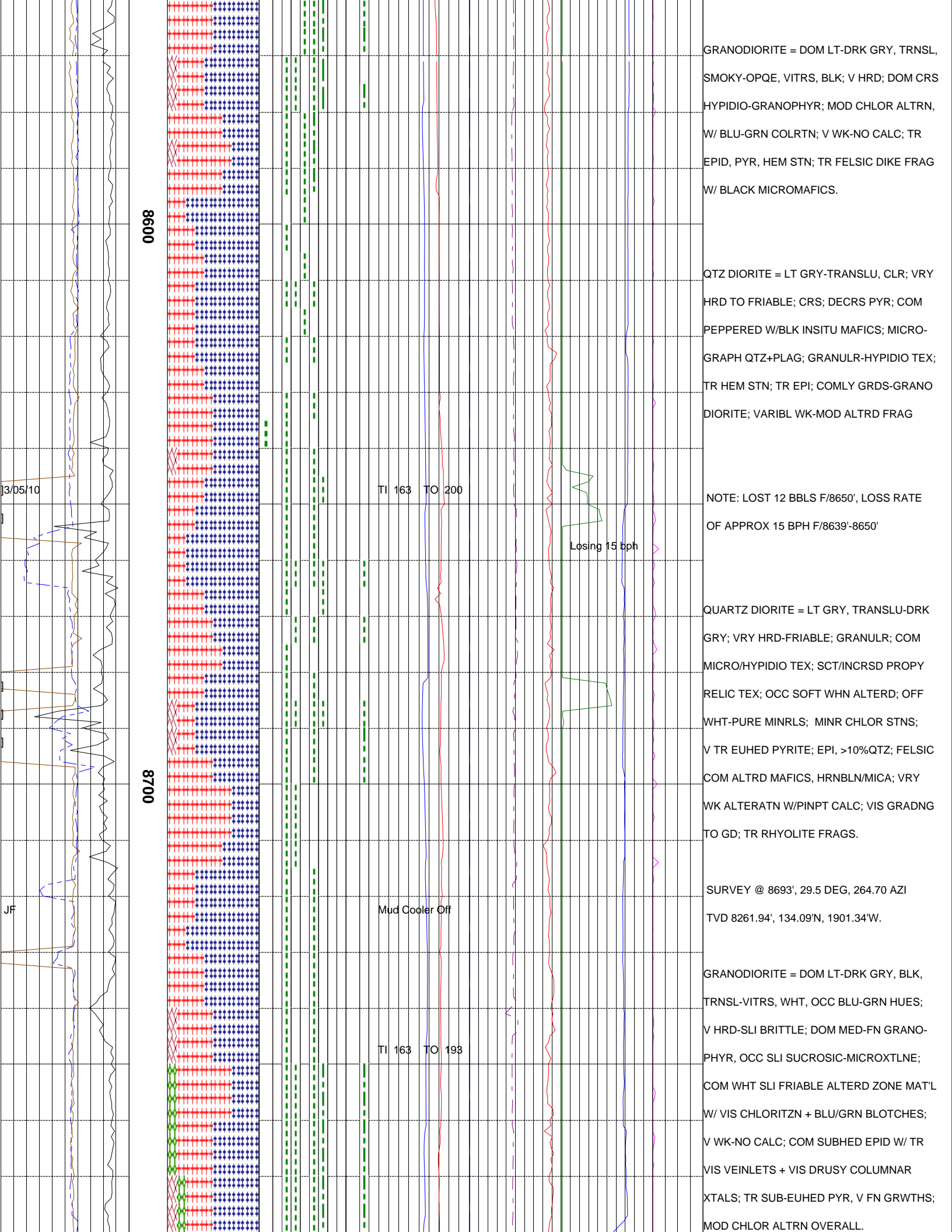


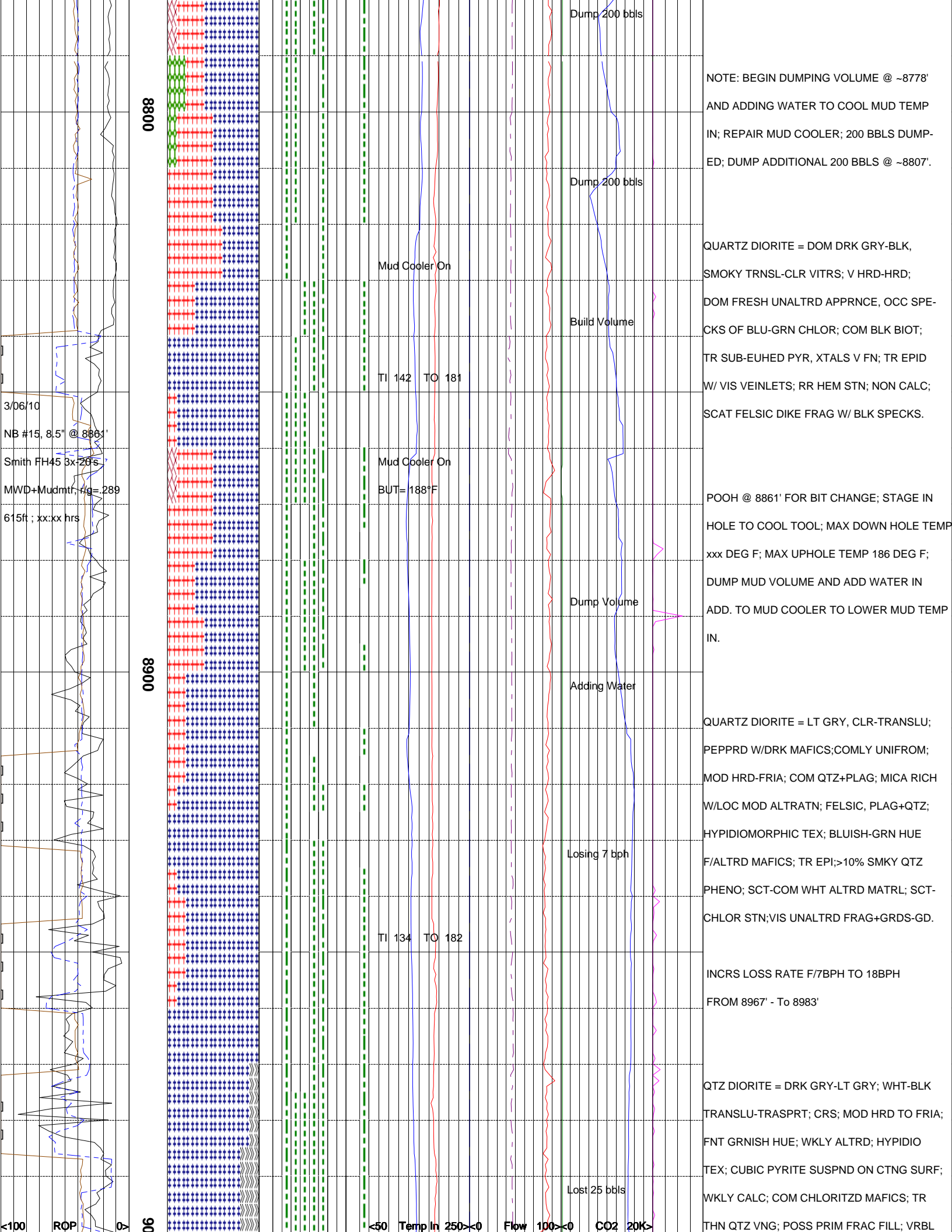


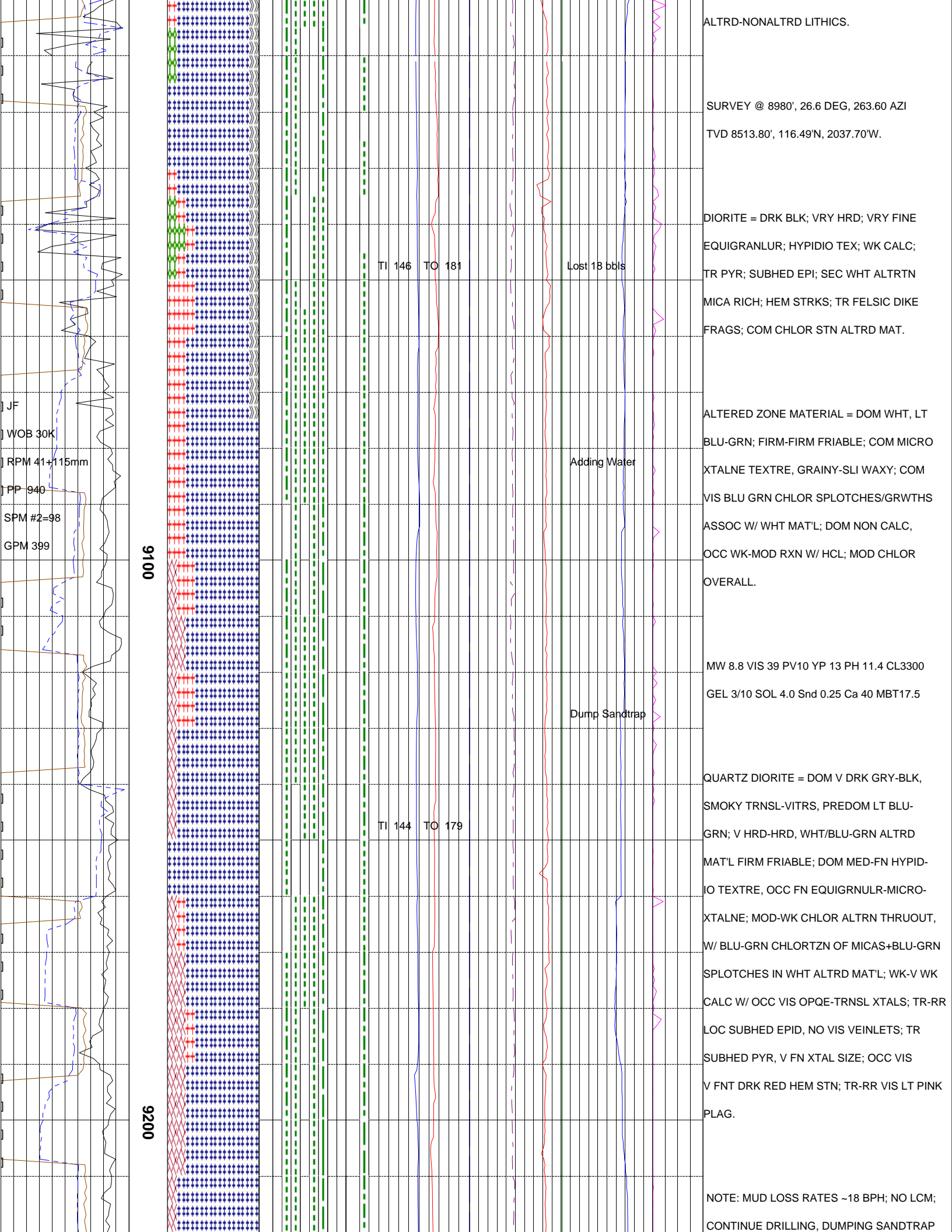




531ft - 41hrs			JF			TI 149 TO 190			QUARTZ DIORITE = DOM V DRK GRY-BLK, RR WHT, TRNSL VITRS; DOM CRS-MED HYP-IDIO, OCC FN-MED EQUIGRNLR; DOM UN-ALTRD APPRNC; V WK-NO CHLOR ALTRN; V HRD-HRD; V WK-NO CALC, RR VIS OPQE XTALS; LOC ABUND DRUSY EPID, LONG VIS COLUMNAR XTALS; RR VIS FELSIC DIKE FRAG; OCC VIS BLK BANDING/FOLIATNS IN CRYPTOXTALLNE MATRIX; VIS EPID VEINS+ VEINLETS.		
8400			Dump Sandtrap			C02 Max 10558			GRANODIORITE = DOM DRK-LT GRY, TRNSL VITRS; V HRD-HRD; DOM MED-FN GRANOPHR TEXTRE, COM VIS FN EQUIGRNLR-MICROXTLN; OCC SLI SUCROSIC TEXTRES; OVERALL NON CALC, RR VIS TRNSL XTALS RCT W/ HCL; SCAT LOC LT PINK FELSIC DIKE FRAGS W/ VIS DRK GRN MICROMAFICS; OCC SCAT RHYO-LITE DIKE FRAGS W/ ASSOC IN SITU PYR; V WK-NO CHLOR ALTRN, RR VIS BLU-GRN HUES IN WHT MICROXTLNE MAT'L; OCC VIS BLK-DRK GRY BANDING+FOLIATNS.		
WOB 25-30K JRP 45 + 100mm JPP 1020 SPM #2=86 GPM 400			TI 155 TO 187			Lost 25 bbls			QUARTZ DIORITE = DOM BLK-V DRK GRY, TRNSL VITRS-SLI OPQE, RR BLU-GRN HUES; HRD-SLI BRTTLE; DOM CRS HYPIDIO, COM MICROXTLNE-FN EQUIGRNLR TEXTRES; TR SUB-EUHED EPID, RR VIS VEINLETS; V WK-MOD CHLOR ALTRN W/ VIS DRK GRN FOLIATN; V WK-WK CALC OVERAL; DOM UNALTRD APPRNC, GRADING INTO SLI MORE CHLORITZD; TR SUBHED PYR; COM LOC HEM STAINING.		
8500			<div> <div>&lt;100 ROP 0&gt;</div> <div>&lt;70 Avg WOB 0&gt;</div> <div>&lt;0 Avg Torque 600&gt;</div> </div>			<div> <div>&lt;50 Temp In 250&gt;&lt;0 Flow 100&gt;&lt;0 C02 20K&gt;</div> <div>&lt;50 Temp Out 250&gt;&lt;0 Pump Psi 2K&gt;&lt;500 Mud Vol 2K&gt;</div> <div>&lt;0 Csg Press 100&gt;</div> </div>			SURVEY @ 8502', 30.0 DEG, 269.30 AZI TVD 8096.15', 139.05'N, 1806.66'W.		
			TI 157 TO 184			No Losses			MW 8.9 VIS 40 PV 9 YP 16 PH 11.4 CL3300 GEL 4/12 SOL 3.0 Snd 0.25 Ca 60 MBT17.5		







ALTRD-NONALTRD LITHICS.

SURVEY @ 8980', 26.6 DEG, 263.60 AZI  
TVD 8513.80', 116.49'N, 2037.70'W.

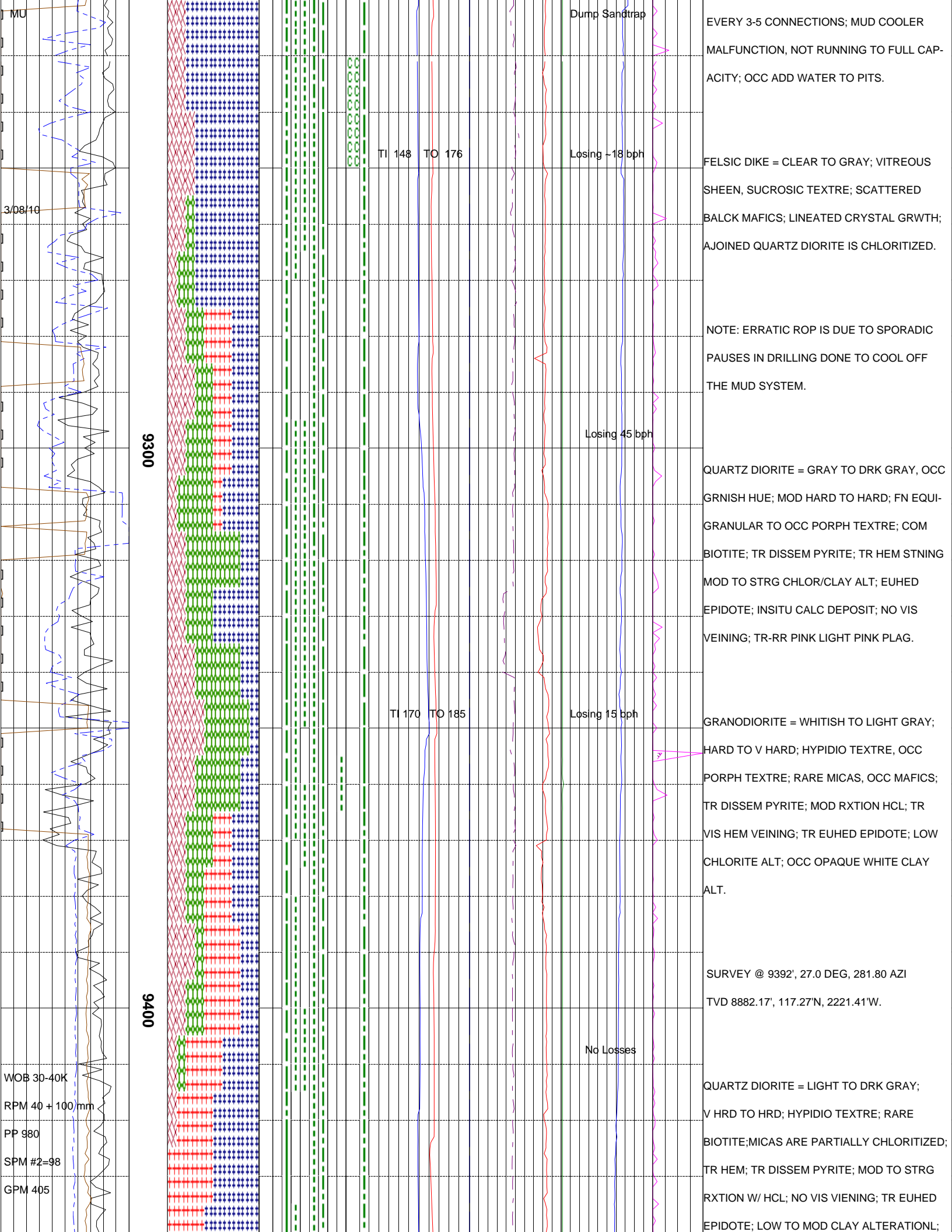
DIORITE = DRK BLK; VRY HRD; VRY FINE  
EQUIGRANLUR; HYPIDIO TEX; WK CALC;  
TR PYR; SUBHED EPI; SEC WHT ALTRTN  
MICA RICH; HEM STRKS; TR FELSIK DIKE  
FRAGS; COM CHLOR STN ALTRD MAT.

ALTERED ZONE MATERIAL = DOM WHT, LT  
BLU-GRN; FIRM-FIRM FRIABLE; COM MICRO  
XTALNE TEXTRE, GRAINY-SLI WAXY; COM  
VIS BLU GRN CHLOR SPLOTCHES/GRWTHS  
ASSOC W/ WHT MAT'L; DOM NON CALC,  
OCC WK-MOD RXN W/ HCL; MOD CHLOR  
OVERALL.

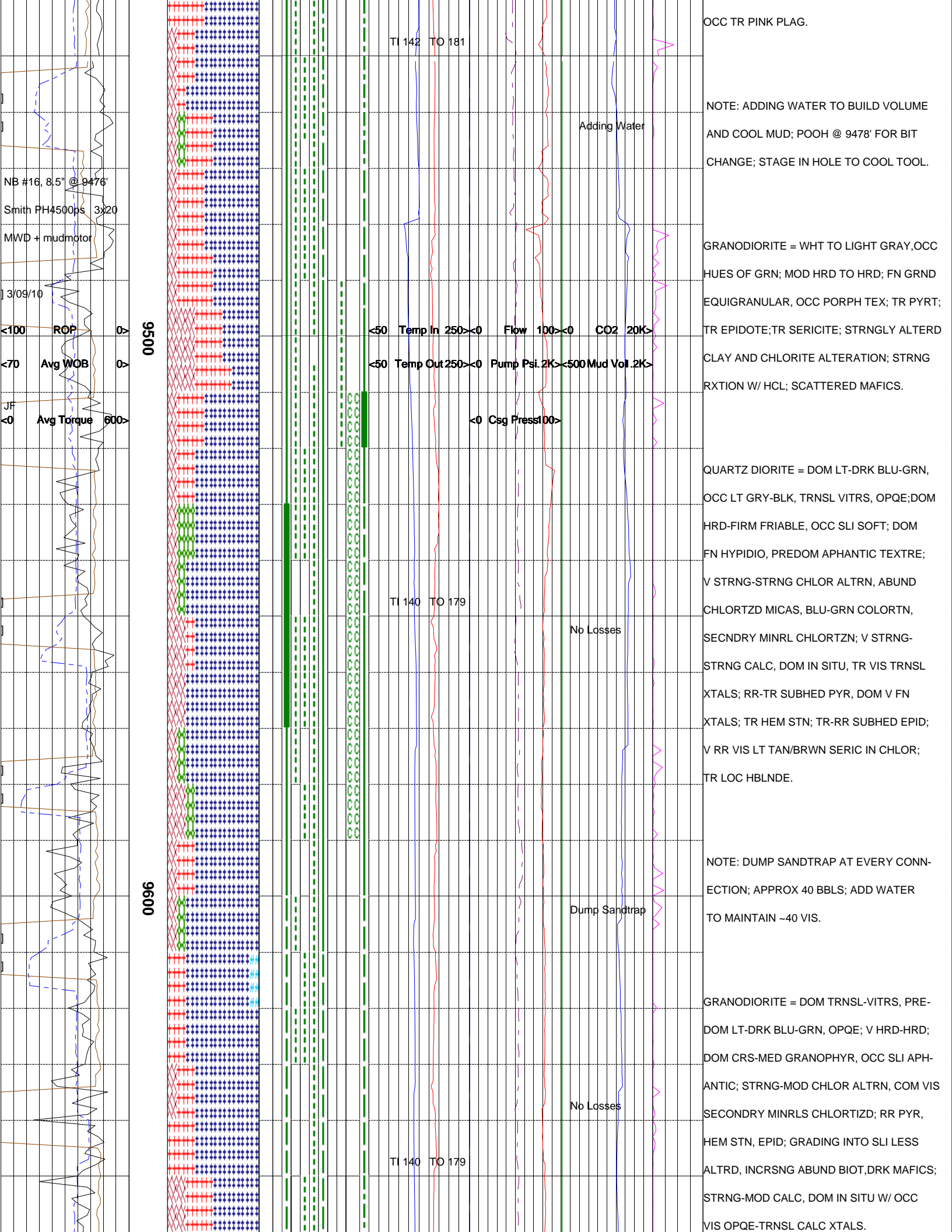
MW 8.8 VIS 39 PV10 YP 13 PH 11.4 CL3300  
GEL 3/10 SOL 4.0 Snd 0.25 Ca 40 MBT17.5

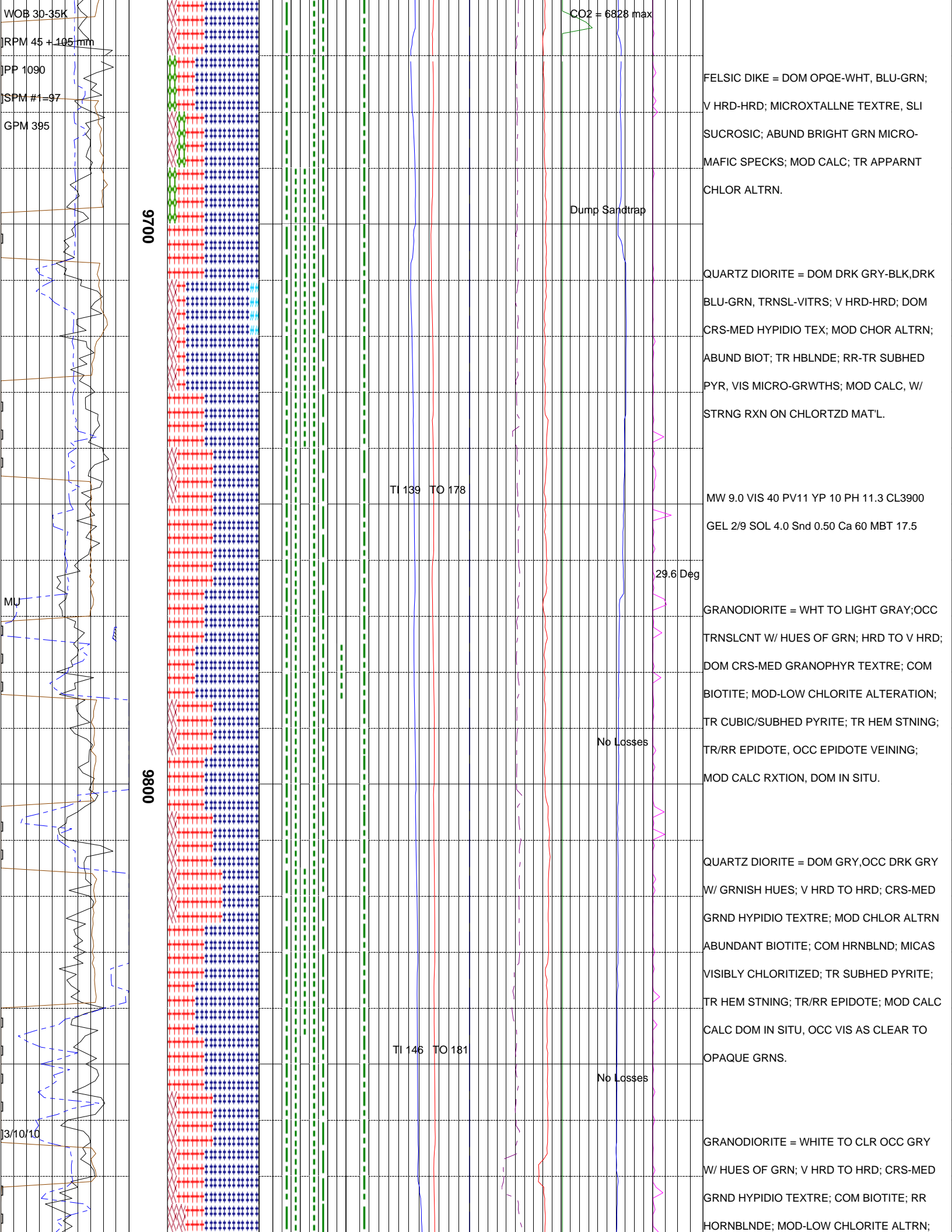
QUARTZ DIORITE = DOM V DRK GRY-BLK,  
SMOKY TRNSL-VITRS, PREDOM LT BLU-  
GRN; V HRD-HRD, WHT/BLU-GRN ALTRD  
MAT'L FIRM FRIABLE; DOM MED-FN HYPID-  
IO TEXTRE, OCC FN EQUIGRNLUR-MICRO-  
XTALNE; MOD-WK CHLOR ALTRN THRUOUT,  
W/ BLU-GRN CHLORTZN OF MICAS+BLU-GRN  
SPLOTCHES IN WHT ALTRD MAT'L; WK-V WK  
CALC W/ OCC VIS OPQE-TRNSL XTALS; TR-RR  
LOC SUBHED EPID, NO VIS VEINLETS; TR  
SUBHED PYR, V FN XTAL SIZE; OCC VIS  
V FNT DRK RED HEM STN; TR-RR VIS LT PINK  
PLAG.

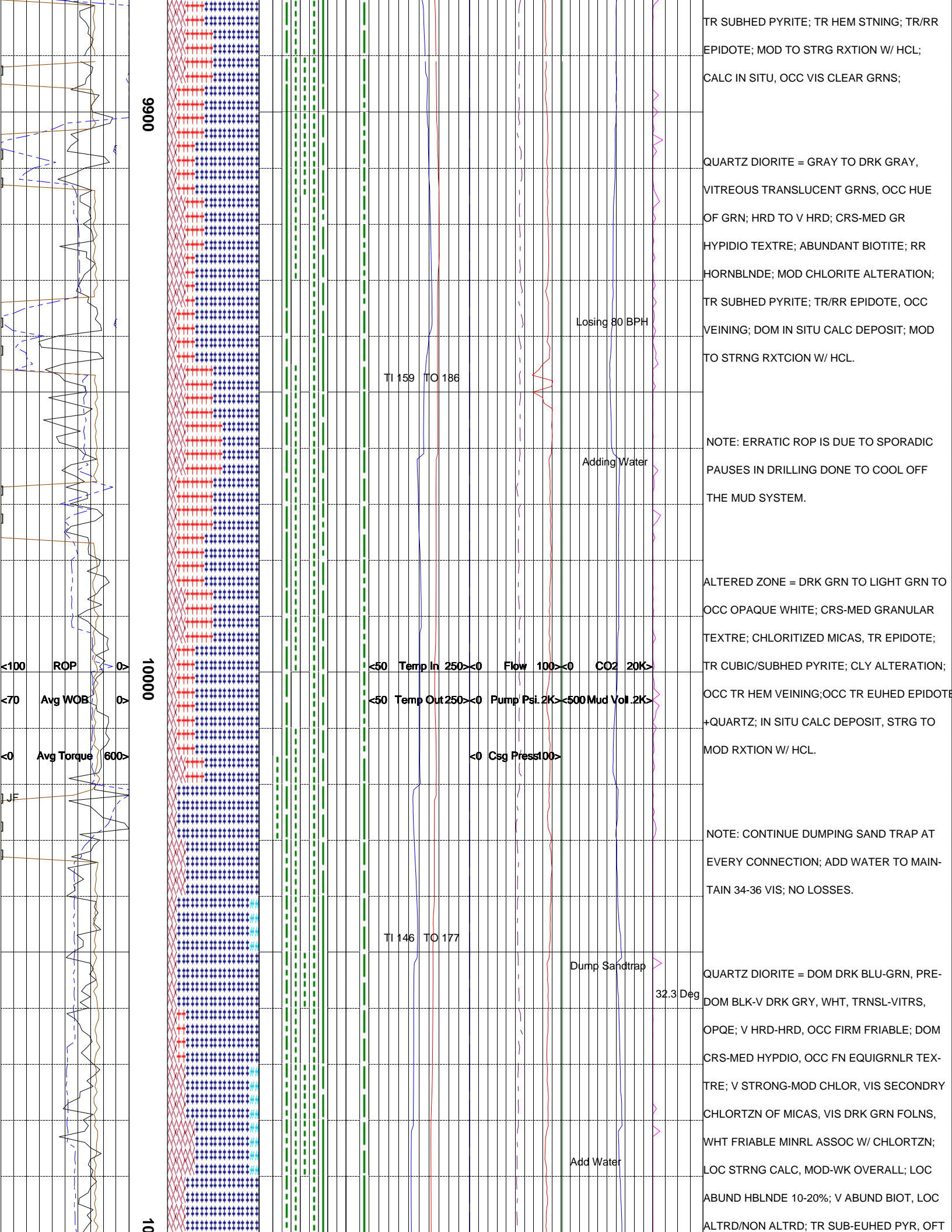
NOTE: MUD LOSS RATES ~18 BPH; NO LCM;  
CONTINUE DRILLING, DUMPING SANDTRAP

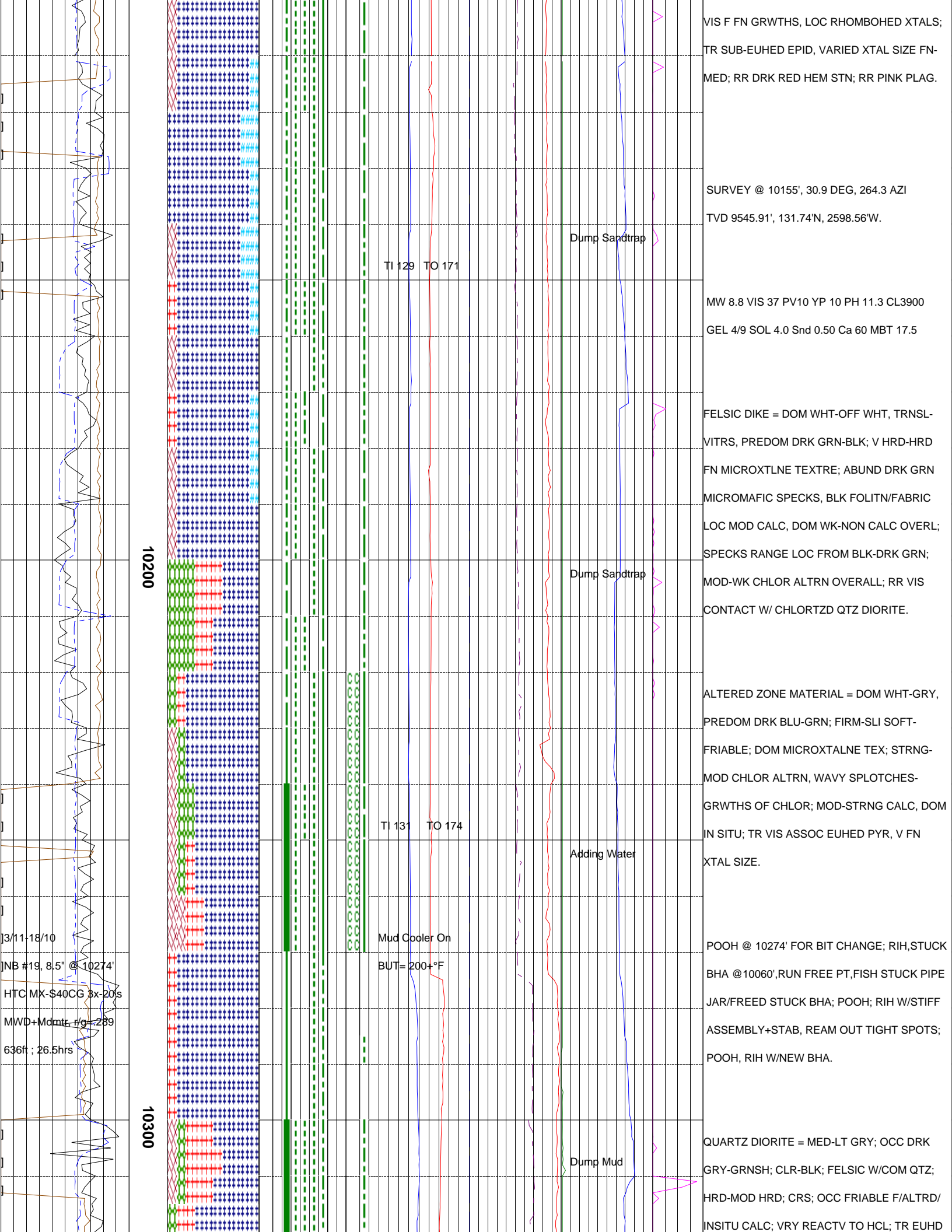


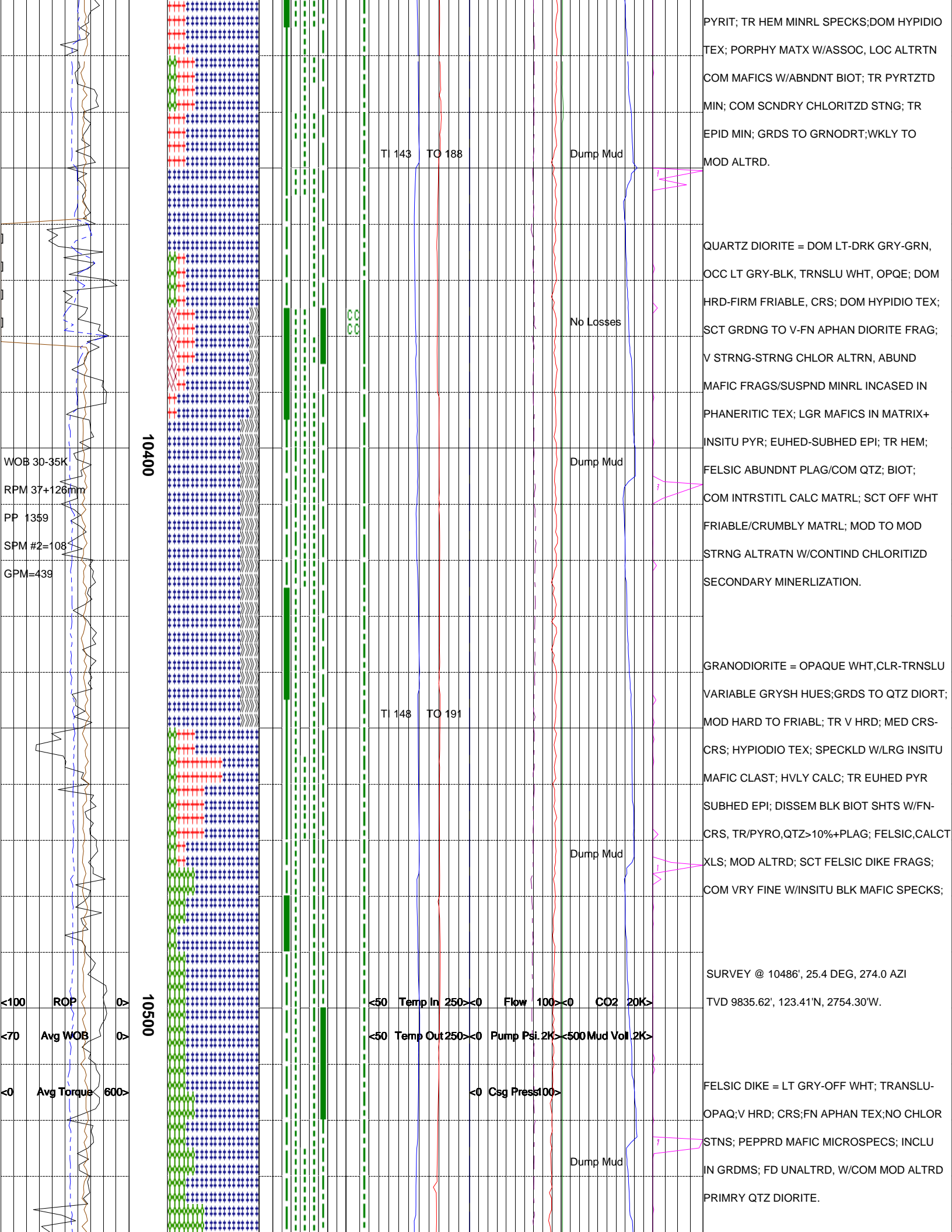


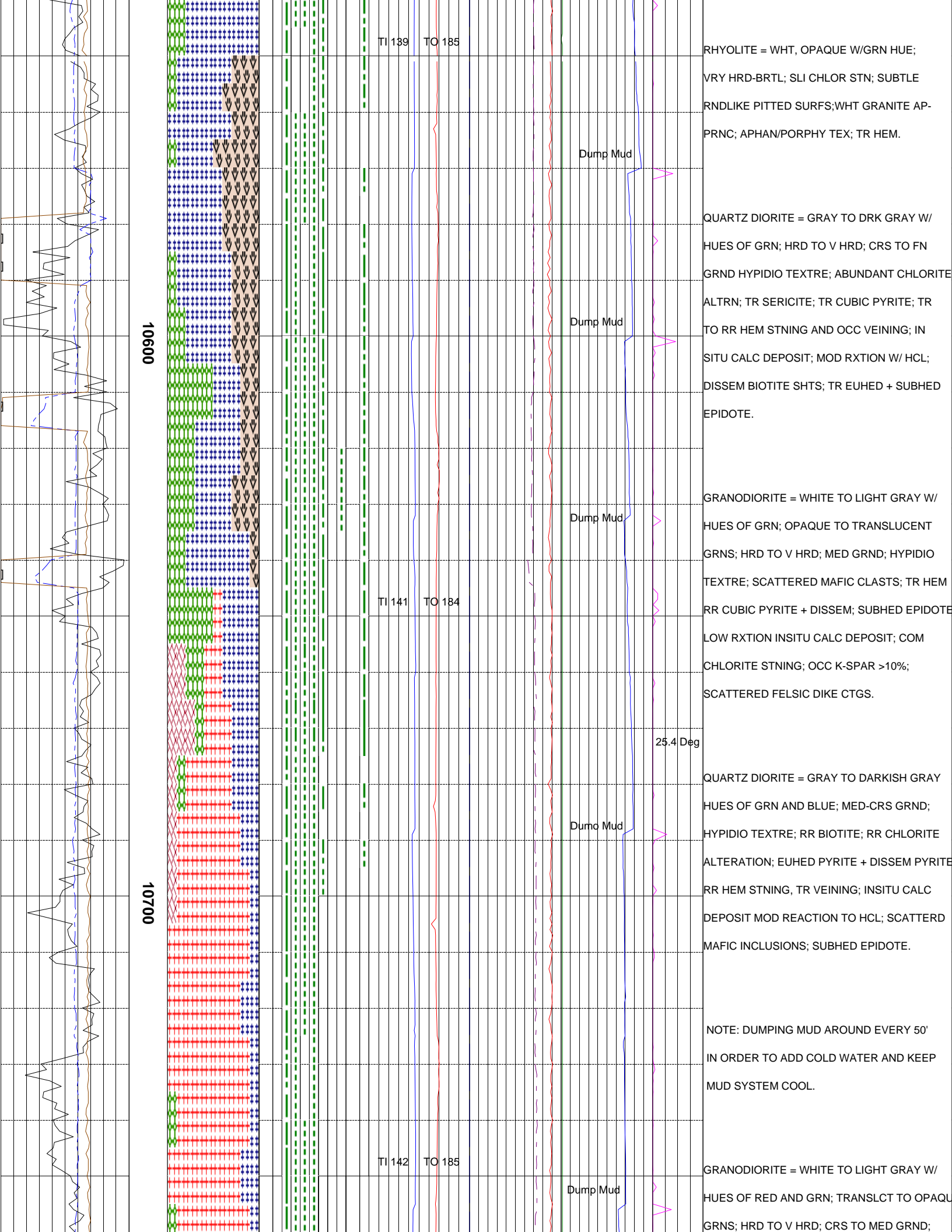




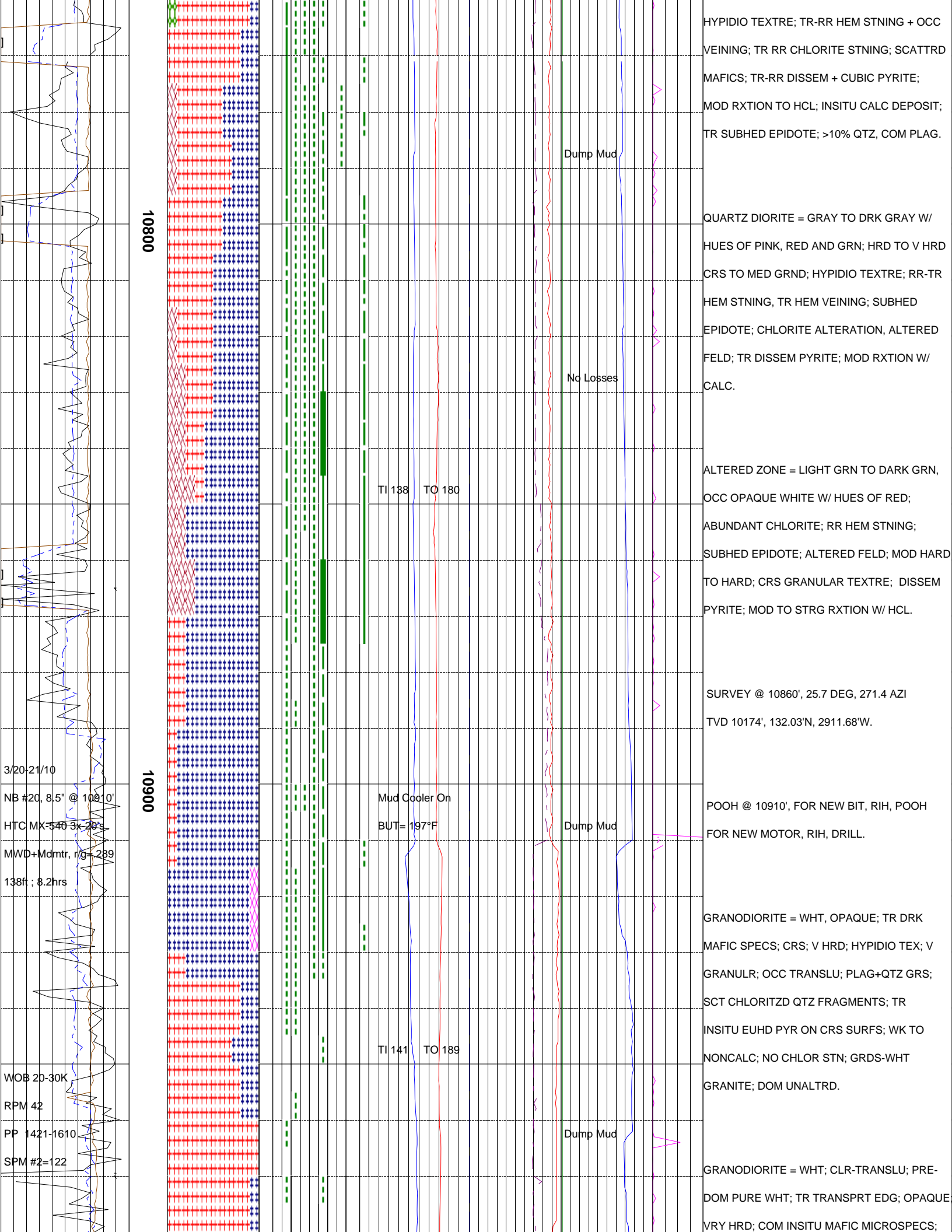


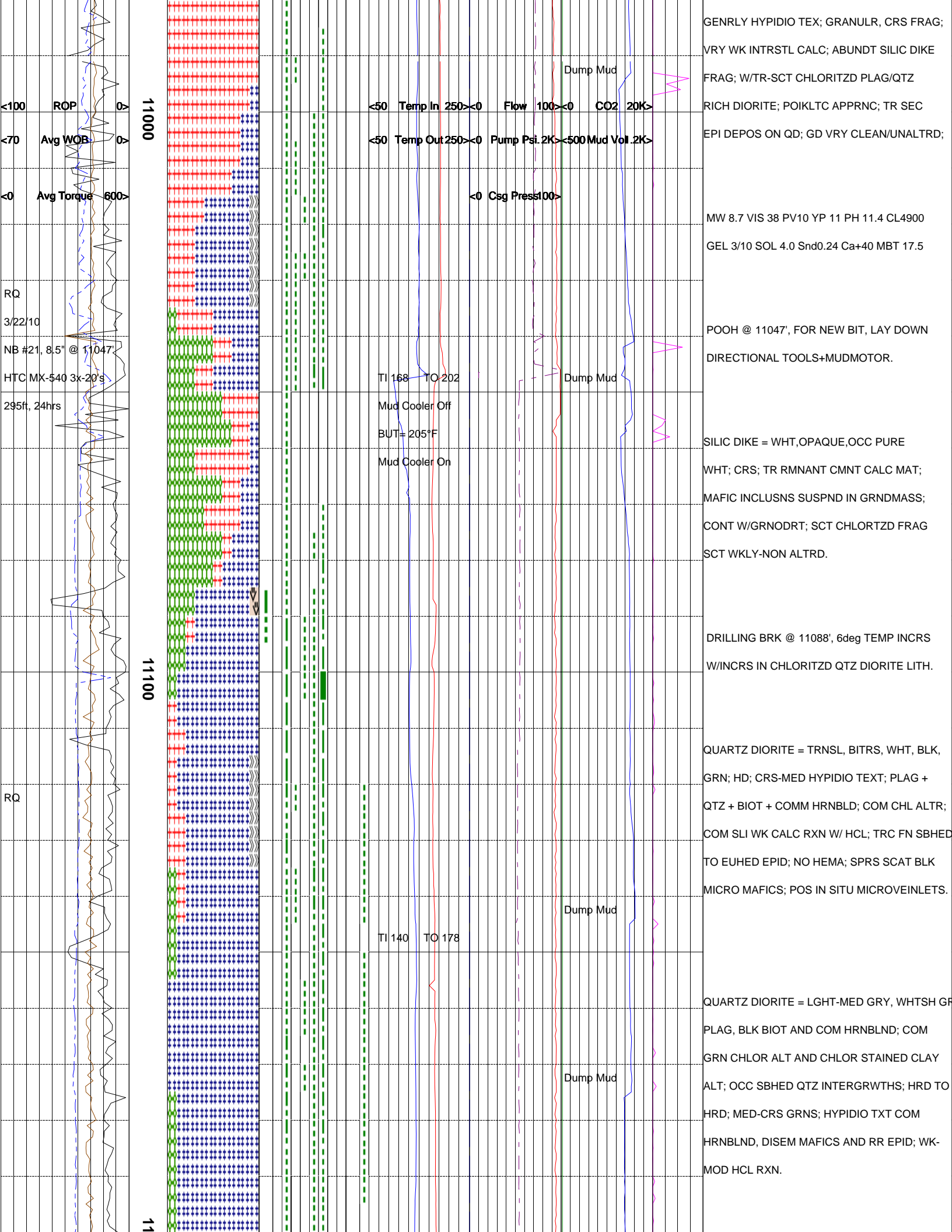


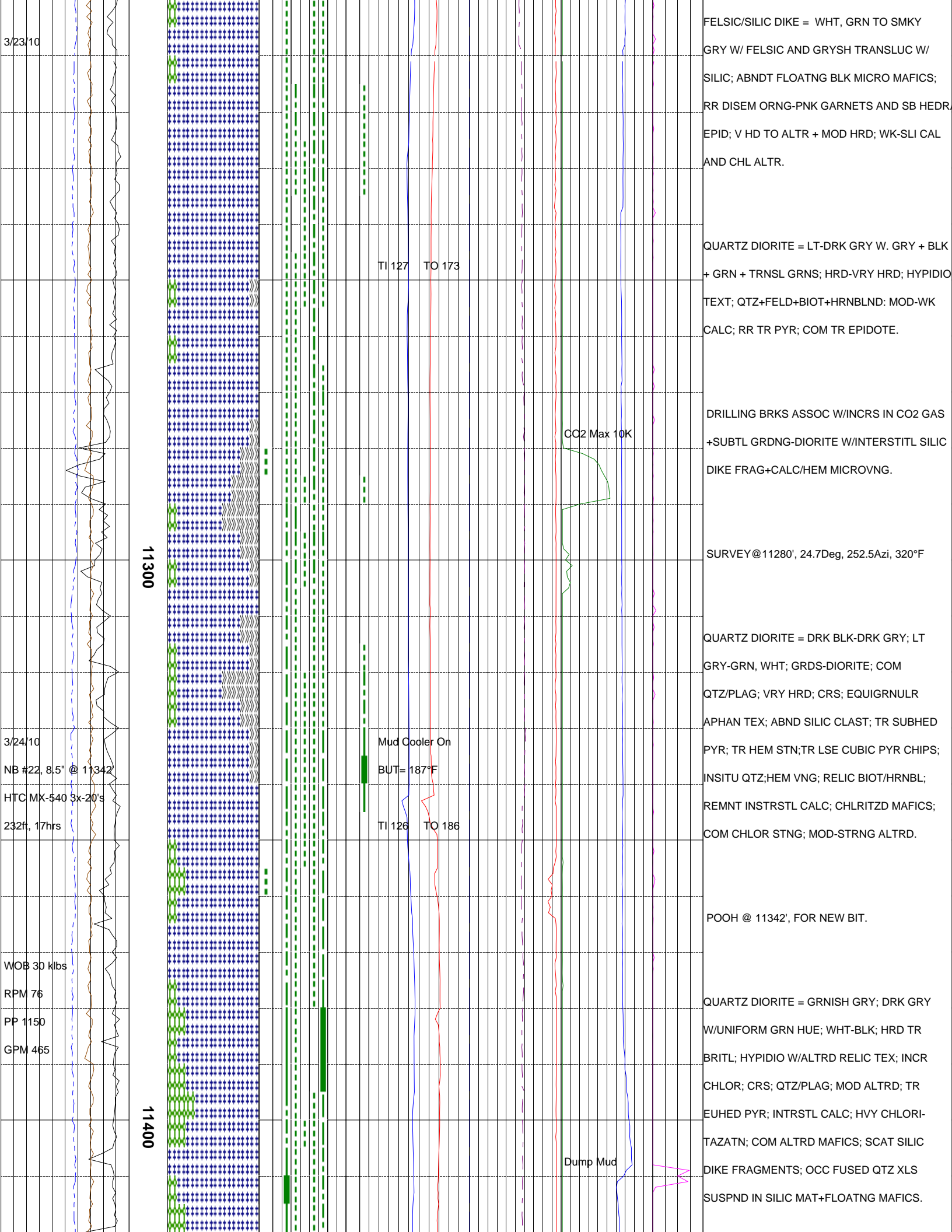












3/23/10

3/24/10

NB #22, 8.5" @ 11342'

HTC MX-540 3x-20's

232ft, 17hrs

WOB 30 klbs

RPM 76

PP 1150

GPM 465

TI 127 TO 173

Mud Cooler On

BUT= 187°F

TI 126 TO 186

CO2 Max 10K

Dump Mud

FELSIC/SILIC DIKE = WHT, GRN TO SMKY  
GRY W/ FELSIC AND GRYSH TRANSLUC W/  
SILIC; ABNDT FLOATNG BLK MICRO MAFICS;  
RR DISEM ORNG-PNK GARNETS AND SB HEDR  
EPID; V HD TO ALTR + MOD HRD; WK-SLI CAL  
AND CHL ALTR.

QUARTZ DIORITE = LT-DRK GRY W. GRY + BLK  
+ GRN + TRNSL GRNS; HRD-VRY HRD; HYPIDIO  
TEXT; QTZ+FELD+BIOT+HRNBLND: MOD-WK  
CALC; RR TR PYR; COM TR EPIDOTE.

DRILLING BRKS ASSOC W/INCRS IN CO2 GAS  
+SUBTL GRDNG-DIORITE W/INTERSTITL SILIC  
DIKE FRAG+CALC/HEM MICROVNG.

SURVEY@11280', 24.7Deg, 252.5Azi, 320°F

QUARTZ DIORITE = DRK BLK-DRK GRY; LT  
GRY-GRN, WHT; GRDS-DIORITE; COM  
QTZ/PLAG; VRY HRD; CRS; EQUIGRNULR  
APHAN TEX; ABND SILIC CLAST; TR SUBHED  
PYR; TR HEM STN;TR LSE CUBIC PYR CHIPS;  
INSITU QTZ;HEM VNG; RELIC BIOT/HRNBL;  
REMNT INSTRSTL CALC; CHLRITZD MAFICS;  
COM CHLOR STNG; MOD-STRNG ALTRD.

POOH @ 11342', FOR NEW BIT.

QUARTZ DIORITE = GRNISH GRY; DRK GRY  
W/UNIFORM GRN HUE; WHT-BLK; HRD TR  
BRITL; HYPIDIO W/ALTRD RELIC TEX; INCR  
CHLOR; CRS; QTZ/PLAG; MOD ALTRD; TR  
EUHED PYR; INTRSTL CALC; HVY CHLORI-  
TAZATN; COM ALTRD MAFICS; SCAT SILIC  
DIKE FRAGMENTS; OCC FUSED QTZ XLS  
SUSPND IN SILIC MAT+FLOATNG MAFICS.

11300

11400

[illegible]









