

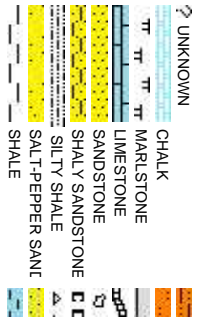


Scale: 5" / 100'
Measured Depth Log

Well Name	Wahler_t_AC23-68-1HN_Horizontal			
Location	NENE S23 T7N R63W			
State	COLORADO	County	WELD	
Country	USA		Rig Number	ENSIGN #121
API Number	05-123-37161		AFE #	138932
Region	DJ BASIN		Field	WATTENBERG
Spud Date	8/31/2013		Drilling Completed	9/6/2013
Surface Coordinates	392' FNL, 280' FEL Lat/Long 40.565580/-104.3948			
Bottom Hole Coordinates	990' FNL, 535' FWL Lat/Long 40.563930/-104.411030			
Ground Elevation	4787'	K.B. Elevation	4800'	
Logged Interval	1000'	To	11051'	
Formation	NIOBRARA A CHALK			
Type of Drilling Fluid	H2O, LSND			

Company ENCANA OIL A

Name RYAN SULLIV/
Company COLUMBINE L
Address 2385 S LIPAN
DENVER, CO 8



Operator

ND GAS (USA), INC.

Geologist

OGGING, INC.

00223

Rock Types

 SHALY SILTSTONE

 SILTSTONE

 SHALE GRAY

 BENTONITE

 BRECCIA

 CEMENT

 CHERT

 CLAY CHOKE SANC

 CLAYSTONE

 COAL

 CONGLOMERATE

 DOLOMITE

 GRANITE

 GYPSUM

 IGNEOUS

 SIDERITE or LIMONITE

 METAMORPHIC

 NO SAMPLE

 ANHYDRITE

 SALT
















 SHALE COLORET

 TUFF





























 WELDED TUFF

Accessories












Fossils

-  F FOSSIL
-  GASTROPOD
-  OOLITE
-  OSTRACOD
-  PELECYPOD
-  PELLET
-  PISULITE
-  PLANT REMAINS
-  BRYOZOA
-  CEPHALOPOD
-  CORAL
-  CRINOID
-  ECHINOID
-  FISH
-  FORAMINIFERA

Minerals







-  ARGILLACEOUS
-  ARGILLITE GRAIN
-  B BENTONITE
-  BITUMENOUS SUBSTANCE
-  BRECCIA FRAGMENTS
-  L CALCAREOUS
-  CARBONACEOUS FLAKES
-  CHDK
-  CHLT
-  COAL - THIN BEDS
-  L DOLOMITIC
-  + FELDSPAR
-  FERRUGINOUS PELLET
-  FERRUGINOUS
-  GLAUCONITE
-  GYPSIFEROUS
-  I HEAVY MINERAL
-  INOCERAMUS
-  K KAOLIN
-  T MARLSTONE
-  M MINERAL CRYSTALS
-  N NODULES
-  P PHOSPHATE PELLET
-  P PYRITE
-  S SALT CAST
-  . SANDY
-  SILICEOUS
-  . SILTY

Stringer


















-  ANHYDRITE STRINGER
-  BENTONITE STRINGER
-  COAL STRINGER
-  DOLOMITE STRINGER
-  GYPSUM STRINGER
-  L LIMESTONE STRINGER
-  T MARLSTONE (CALC) STRG
-  T MARLSTONE (DOL) STRG
-  S SANDSTONE STRINGER
-  — SHALE STRINGER
-  S SILTSTONE STRINGER

Other Symbols








Oil Show

-  MOLDIC
-  O ORGANIC
-  P PINPOINT
-  EVEN
-  QUESTIONABLE
-  SPOTTED STAINING











Engineering

-  BIT
-  CONNECTION (LEFT)
-  CONNECTION (RIGHT)
-  CONNECTION GAS
-  L CORE - LOST
-  CORE - RECOVERED
-  INTEROOLITIC
-  FAULT
-  FORMATION TOP
-  GAS SHOW
-  MINDEPTH MN DEPTH
-  NORMAL FAULT
-  OIL SHOW
-  OVERTURNED STRATA
-  REVERSE FAULT
-  SIDEWALL CORE (LEFT)
-  SIDEWALL CORE (RIGHT)




Textures

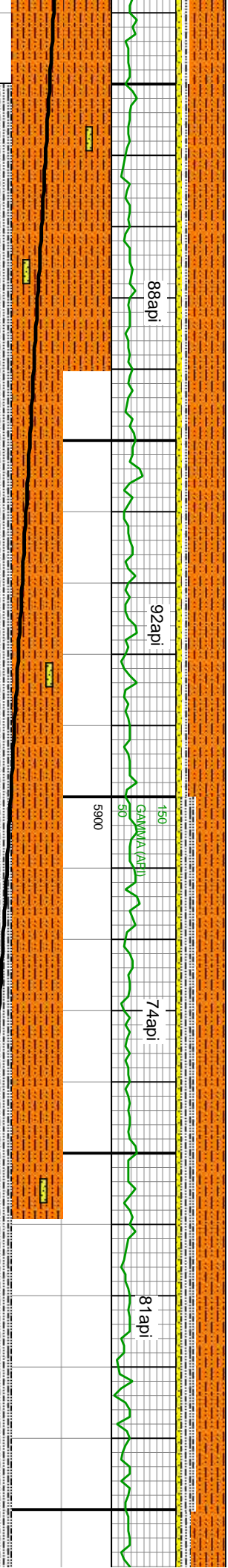
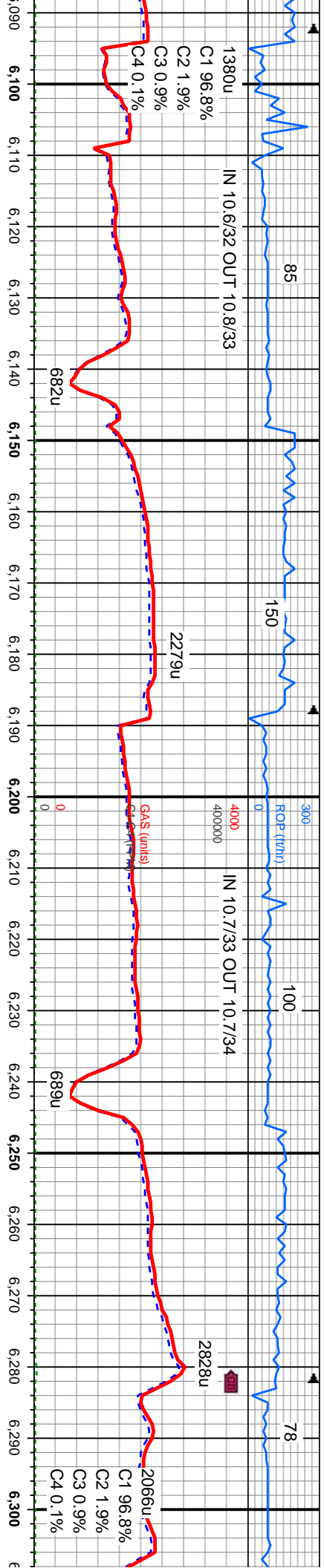
-  SUBANG
-  SUBUND
-  BS BOUNDSTONE
-  C CHALKY
-  CX CRYPTOXLN
-  WIRELINE TESTED - LEFT
-  WIRELINE TESTED - RT

Rounding

-  A ANGULAR
-  R ROUNDED
-  L LITHOGRAPHIC
-  MX MICROXLN
-  MS MUDSTONE
-  PS PACKSTONE
-  WS WACKESTONE
-  E EARTHY
-  FX FINELYXLN
-  GS GRAINSTONE

Sorting

-  M MODERATE
-  P POOR
-  W WELL



MD: 6,138 '
TVD: 6,086.17 '
Inclination: 18.7 °
Azimuth: 269.6 °
VS: -603.05 '

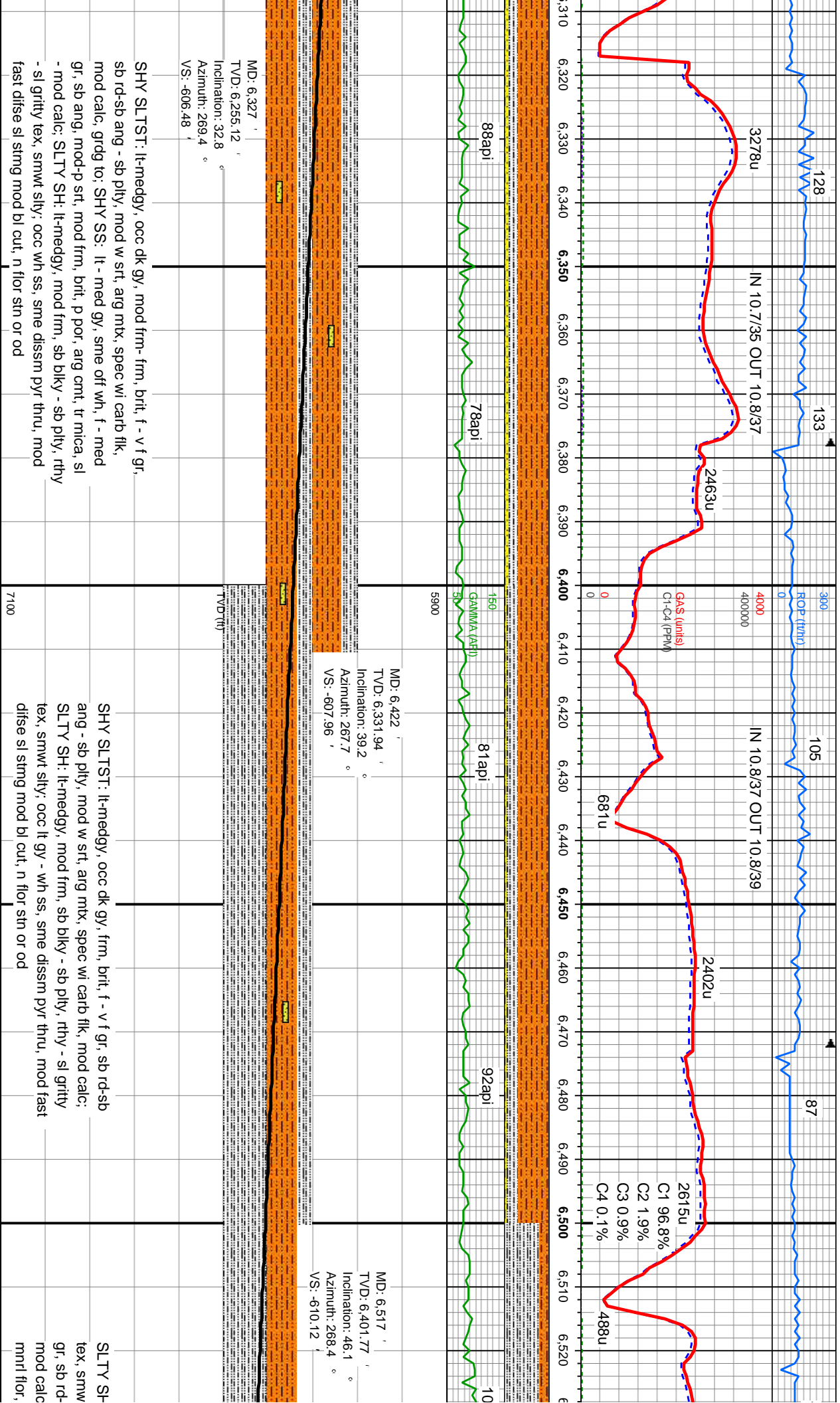
TVD (ft)

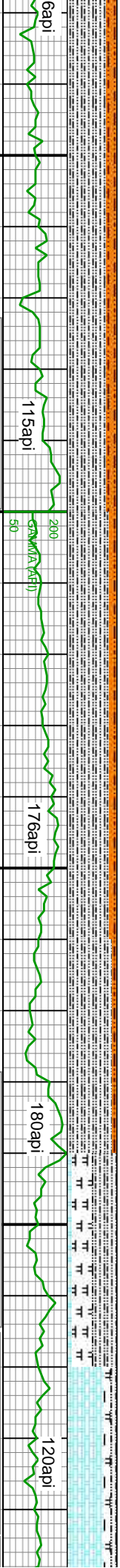
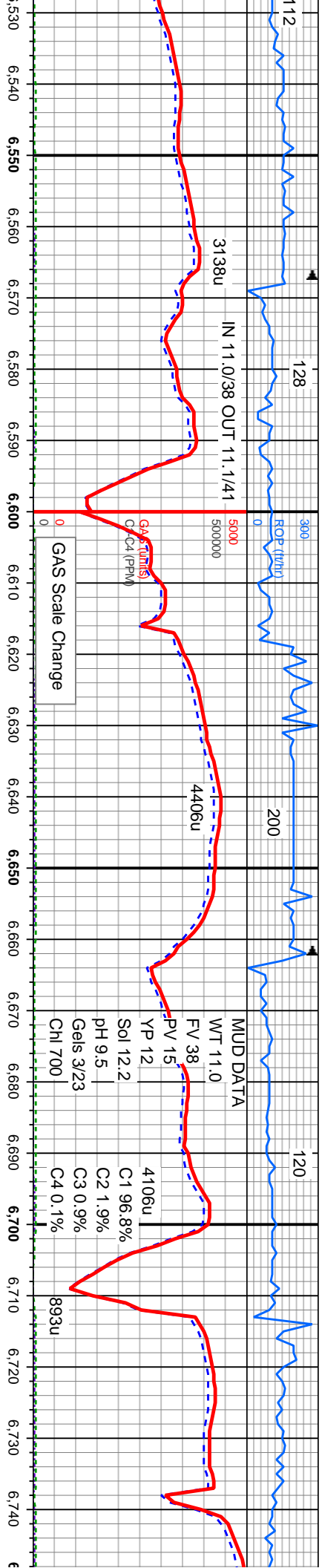
MD: 6,232 '
TVD: 6,172.76 '
Inclination: 26.9 °
Azimuth: 265.9 °
VS: -604.67 '

SHY SLTST: lt-medgy, occ dk gy, mod frm-frm, brit, f - v f gr, sb rd-sb ang - sb plty, mod w srt, arg mix, spec wi carb flk, v sl calc, grdg to; SHY SS: lt - med gy, sme off wh, f - med gr, sb ang, mod-p srt, mod frm, brit, p por, arg cnt, tr mica, sl calc; SLTY SH: lt-medgy, mod frm, sb blkly - sb plty, rthy - sl grity tex, smwt slty; occ wh ss, sme dissim pyr thru, mod fast difse sl string mod bl cut, n flor stn or od

SHY SLTST: lt-medgy, occ dk gy, mod frm-frm, brit, f - v f gr, sb rd-sb ang - sb plty, mod w srt, arg mix, spec wi carb flk, v sl calc, grdg to; SHY SS: lt - med gy, sme off wh, f - med gr, sb ang, mod-p srt, mod frm, brit, p por, arg cnt, tr mica, sl calc; SLTY SH: lt-medgy, mod frm, sb blkly - sb plty, rthy - sl grity tex, smwt slty; occ wh ss, sme dissim pyr thru, mod fast difse sl string mod bl cut, n flor stn or od



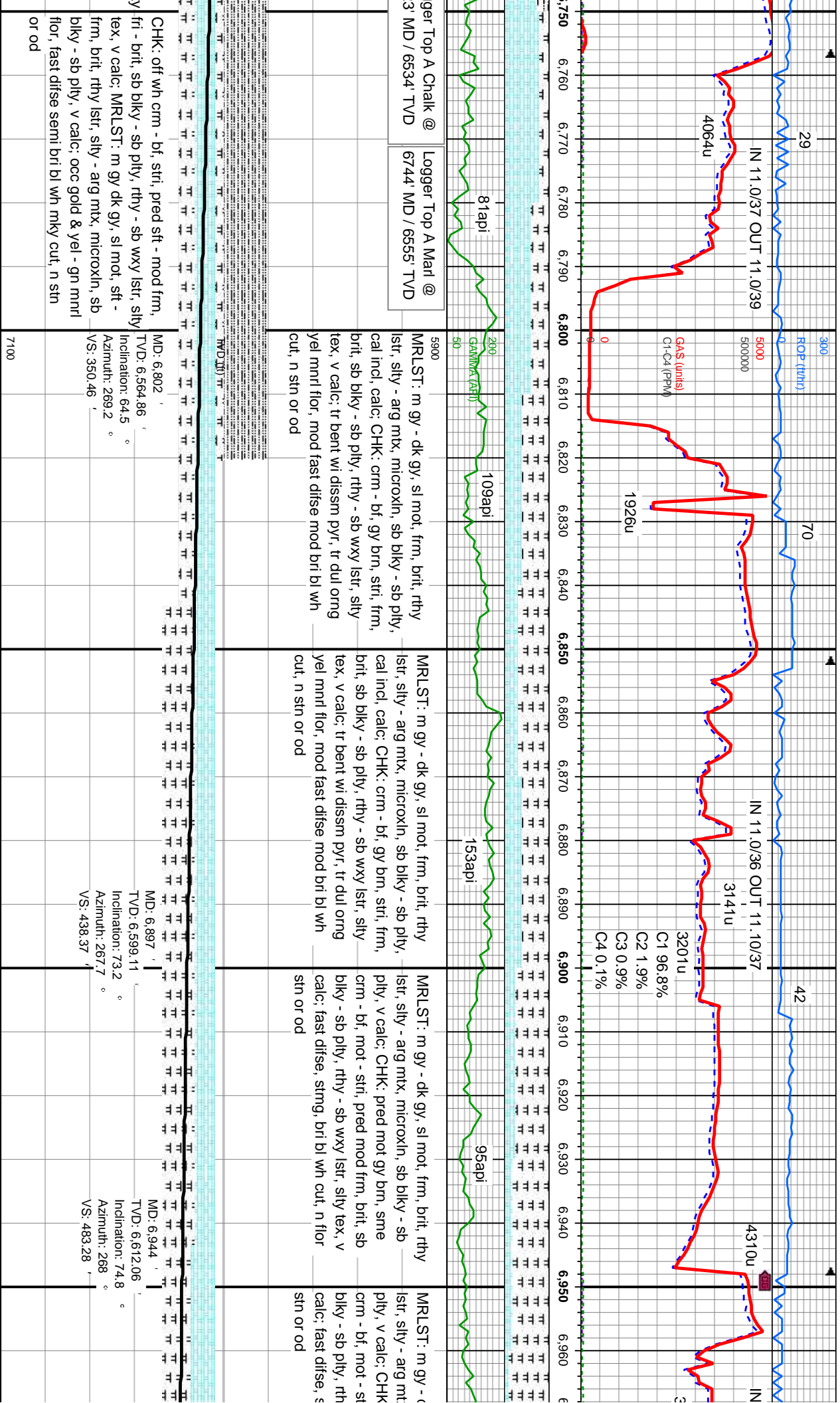




MD: 6.612 ' TVD: 6.463.94 ' Inclination: 52.1 ° Azimuth: 268 ° VS: -612.39 '		MD: 6.707 ' TVD: 6.518.76 ' Inclination: 57.4 ° Azimuth: 270.3 ° VS: 268.28 '	
Logger Top Sharon Springs @ 6702 MD / 6513' TVD		Logger Top Nibbrara @ 6710 MD / 6521' TVD	

SLTY SH: lt-medgy, mod frm, sb blkly - sb ply, rthy - sl gritty tex, smwt slty; SHY SLTST: lt-medgy, occ dk gy, frm, brit, f - v f gr, sb rd-sb ang - sb ply, mod w srt, arg mtx, spec wi carb flk, mod calc; sme dissim pyr thru, tr bent, tr yel - gold mnrl flor, mod fast disse sl stmg mod bri bl cut, n stn or od	SLTY SH: lt-medgy, mod frm, sb blkly - sb ply, rthy - sl gritty tex, smwt slty; SHY SLTST: lt-medgy, occ dk gy, frm, brit, f - v f gr, sb rd-sb ang - sb ply, mod w srt, arg mtx, spec wi carb flk, mod calc; sme dissim pyr thru, tr bent, tr yel - gold mnrl flor, mod fast disse sl stmg mod bri bl cut, n stn or od	CHK: off wh crm - bf, stri, pried sft - mod frm, fri - brit, sb blkly - sb ply, rthy - sb wxy lsrt, sli tex, v calc; MRLST: m gy dk gy, sl mot, sft - frm, brit, rthy lsrt, sly - arg mtx, microxin, sb blkly - sb ply, v calc; occ gold & yel - gn mnrl flor, fast disse semi bri bl wh mky cut, n stn or od
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Logger Top A Chalk @ 6744' MD / 6534' TVD

Logger Top A Marl @ 6744' MD / 6555' TVD

MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lsr, slty - arg mtz, microxn, sb blkly - sb pily,
cal incl, calc; CHK: crm - bf, gy brn, stri, frm,
brit, sb blkly - sb pily, rthy - sb wxy lstr, slty
tex, v calc; tr bent wi dissn pyr, tr dul orng
yel mnrl flr, mod fast difse mod bri bl wh
cut, n stn or od

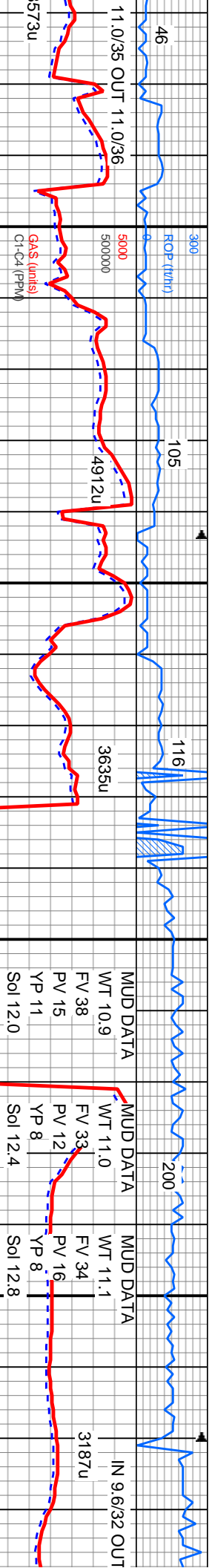
MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lsr, slty - arg mtz, microxn, sb blkly - sb pily,
cal incl, calc; CHK: crm - bf, gy brn, stri, frm,
brit, sb blkly - sb pily, rthy - sb wxy lstr, slty
tex, v calc; tr bent wi dissn pyr, tr dul orng
yel mnrl flr, mod fast difse mod bri bl wh
cut, n stn or od

MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lsr, slty - arg mtz, microxn, sb blkly - sb
pily, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb pily, rthy - sb wxy lstr, slty tex, v
calc; fast difse, stmg, bri bl wh cut, n flr
stn or od

MRLST: m gy - c
lsr, slty - arg mt
pily, v calc; CHK
crm - bf, mot - st
blkly - sb pily, rh
calc; fast difse, s
stn or od

CHK: off wh crm - bf, stri, pred sft - mod frm,
fri - brit, sb blkly - sb pily, rthy - sb wxy lstr, slty
tex, v calc; MRLST: m gy dk gy, sl mot, sft -
frm, brit, rthy lstr, slty - arg mtz, microxn, sb
blkly - sb pily, v calc; occ gold & yel - gn mnrl
flr, fast difse semi bri bl wh mky cut, n stn
or od





9/4/2013

MUD DATA		
WT 10.9	WT 11.0	WT 11.1
FV 38	FV 33	FV 34
PV 15	PV 12	PV 16
YP 11	YP 8	YP 8
Sol 12.0	Sol 12.4	Sol 12.8
pH 9.5	pH 9.0	pH 9.0
Gels 4/16	Gels 4/12	Gels 5/13
Chl 750	Chl 800	Chl 750

NO GAMMA DATA FROM TOOL

5000
200
138api
162api

MRSLT: m gy - dk gy, sl mot, frm, brit, rthy
lstr, slty - arg mtx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, slty tex, v
calc; fast difse, stimg, bri bl wh cut, n flor
stin or od

Curve landed @ 7083' MD
@ 3:20 hrs on 09/3/2013

Resume drilling @
12:33 hrs on 09/04/13

BHA #3 INFORMATION
BIT: 6.125" SMITH SD513
BIT SERIAL NUMBER: JG3453

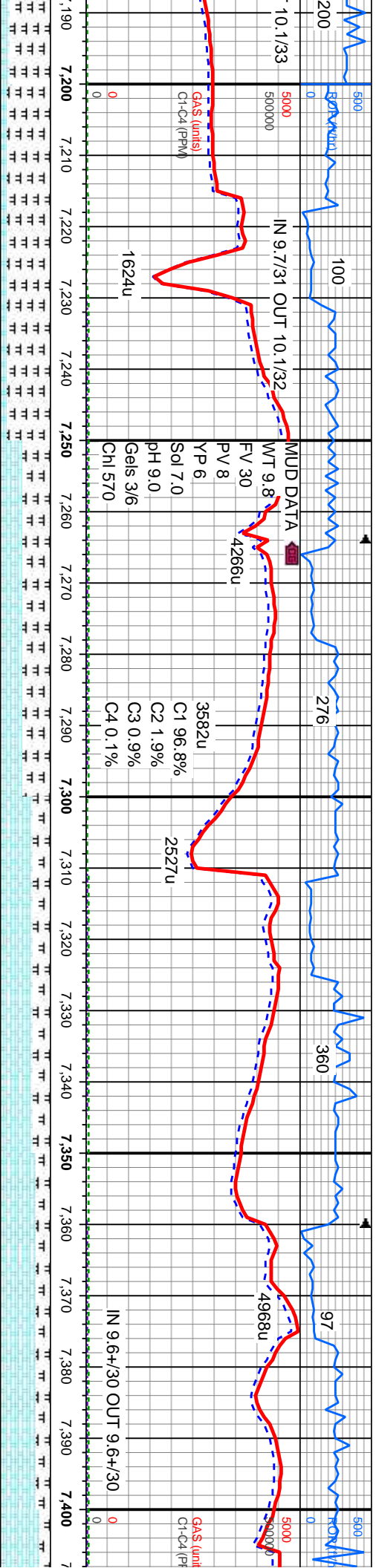
MD: 6,992 '
TVD: 6,622.61 '
Inclination: 79.8 °
Azimuth: 268.2 °
VS: 529.8 '

MD: 7,033 '
TVD: 6,628.74 '
Inclination: 83 °
Azimuth: 267.1 °
VS: 570.12 '

MD: 7,115 '
TVD: 6,637.38 '
Inclination: 84.9 °
Azimuth: 268.4 °
VS: -624.41 '

MD: 7,162 '
TVD: 6,641.52 '
Inclination: 85 °
Azimuth: 268.4 °
VS: -625.72 '

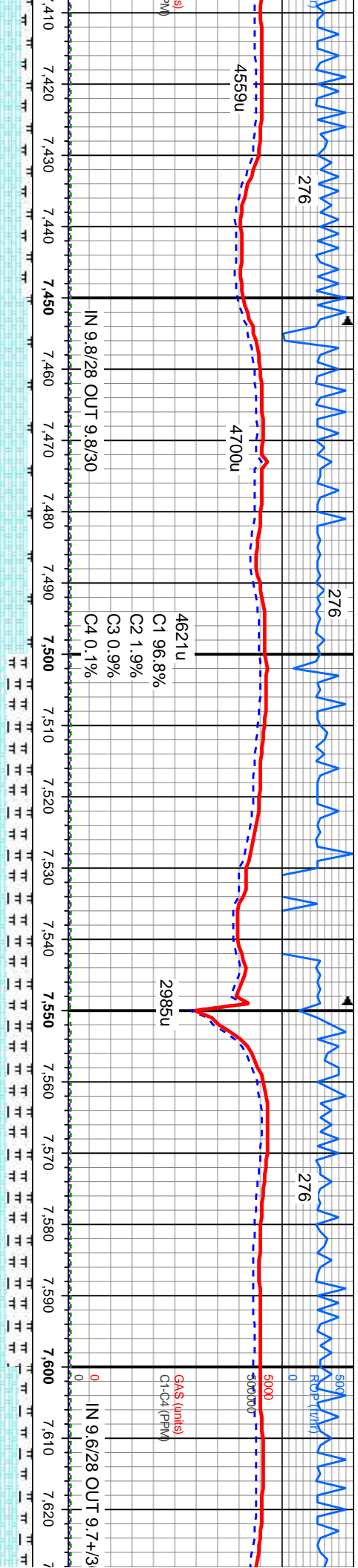




56api	127api	100api	115api	58api
5900	5900	5900	5900	5900
GAMMA Scale Change				
Logger Top B Chalk @ 7280' MD / 6652' TVD				
TVD (ft)				
MRLST: m gy - dk gy, sl mot, frm, brit, rthy				
lstr, silty - arg mtx, microxln, sb blkly - sb				
ply, v calc; CHK: pred mot gy brn, sme				
crn - bf, mot - stri, pred mod frm, brit, sb				
blkly - sb ply, rthy - sb wxy lstr, silty tex, v				
calc; fast difse, stmg, mod bri bl wh cut, n				
flor stn or od				
MRLST: m gy - dk gy, sl mot, frm, brit, rthy				
lstr, silty - arg mtx, microxln, sb blkly - sb				
ply, v calc; CHK: pred mot gy brn, sme				
crn - bf, mot - stri, pred mod frm, brit, sb				
blkly - sb ply, rthy - sb wxy lstr, silty tex, v				
calc; fast difse, stmg, mod bri bl wh cut, n				
flor stn or od				
CHK: pred mot gy brn, occ crn - bf, mot -				
stri, pred mod frm, brit, sb blkly - sb ply,				
rthy - sb wxy lstr, silty tex, v calc; MRLST: m				
gy - dk gy, sl mot, frm, brit, rthy lstr, silty -				
arg mtx, microxln, sb blkly - sb ply, v calc;				
fast difse, stmg, mod bri bl wh cut, n flor				
stn or od				
CHK: rthy - arg mtx, microxln, sb blkly - sb ply,				
stri, pred mod frm, brit, rthy lstr, silty -				
gy - dk gy, sl mot, frm, brit, rthy lstr, silty -				
arg mtx, microxln, sb blkly - sb ply, v calc;				
fast difse, stmg, mod bri bl wh cut, n flor				
stn or od				
TVD (ft)				

MD: 7.209 ' TVD: 6,645.66 ' Inclination: 84.9 ° Azimuth: 268.7 ° VS: -626.9 ' 7100	MD: 7.256 ' TVD: 6,649.67 ' Inclination: 85.3 ° Azimuth: 269.6 ° VS: -627.6 ' 7100	MD: 7.304 ' TVD: 6,653.19 ' Inclination: 86.3 ° Azimuth: 271.2 ° VS: -627.26 ' 7100	MD: 7.351 ' TVD: 6,655.61 ' Inclination: 87.8 ° Azimuth: 271.3 ° VS: -626.24 ' 7100	MD: 7.399 ' TVD: 6,656.57 ' Inclination: 89.9 ° Azimuth: 271.7 ° VS: -624.98 ' 7100
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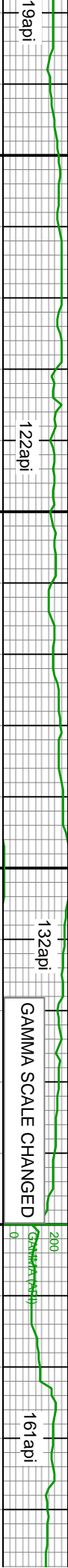
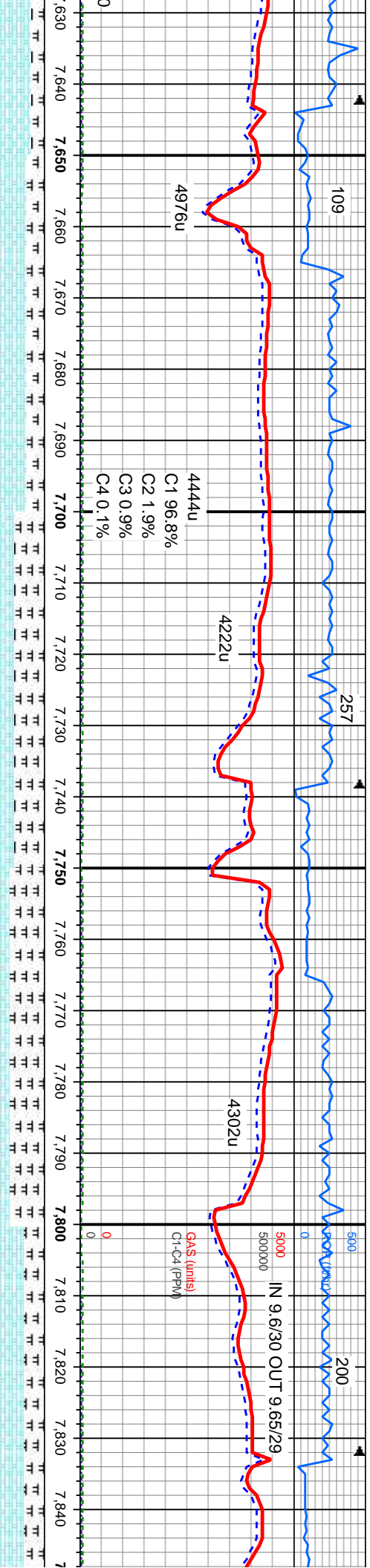




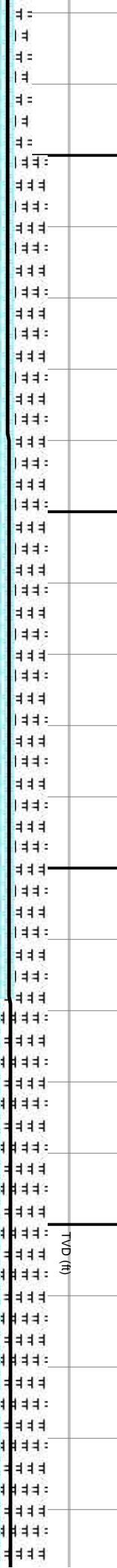
mod crm - bf, tr mot gy brn, mot - sb wxy lstr, silty tex, v calc; MRLST: m	CHK: pred crm - bf, tr mot gy brn, mot - stri, pred mod frm, brit, sb blk - sb ply, rthy - sb wxy lstr, silty tex, v calc; MRLST: m	CHK: pred crm - bf, occ mot gy brn, mot - stri, pred mod frm, brit, sb blk - sb ply, rthy - sb wxy lstr, silty tex, v calc; MRLST: m	CHK: mot gy brn, sme crm - bf, mot - stri, pred mod frm, brit, sb blk - sb ply, rthy - sb wxy lstr, silty tex, v calc; MRLST: m	CHK: mot gy brn, sme cr pred mod frm, brit, sb blk - sb wxy lstr, silty tex, v cal
gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blk - sb ply, v calc; fast difse, stimg, mod bri bl wh cut, n fl or od	gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blk - sb ply, v calc; fast difse, stimg, mod bri bl wh cut, n fl or od	gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blk - sb ply, v calc; fast difse, stimg, mod bri bl wh cut, n fl or od	dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blk - sb ply, v calc; tr bent wi dissn pyr, tr du gold mnrl fl or, fast difse, stimg, mod bri bl wh cut, n str or od	dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blk - sb ply, v cal bent wi dissn pyr, tr du gold mnrl fl or, fast difse, stimg, mod bri
87api	85api	56api	130api	56api

MD: 7,446 ' TVD: 6,656.36 ' Inclination: 90.6 ° Azimuth: 271.5 ° VS: -623.67 '	MD: 7,494 ' TVD: 6,655.65 ' Inclination: 91.1 ° Azimuth: 271.5 ° VS: -622.42 '	MD: 7,588 ' TVD: 6,652.37 ' Inclination: 92.9 ° Azimuth: 271.5 ° VS: -619.96 '
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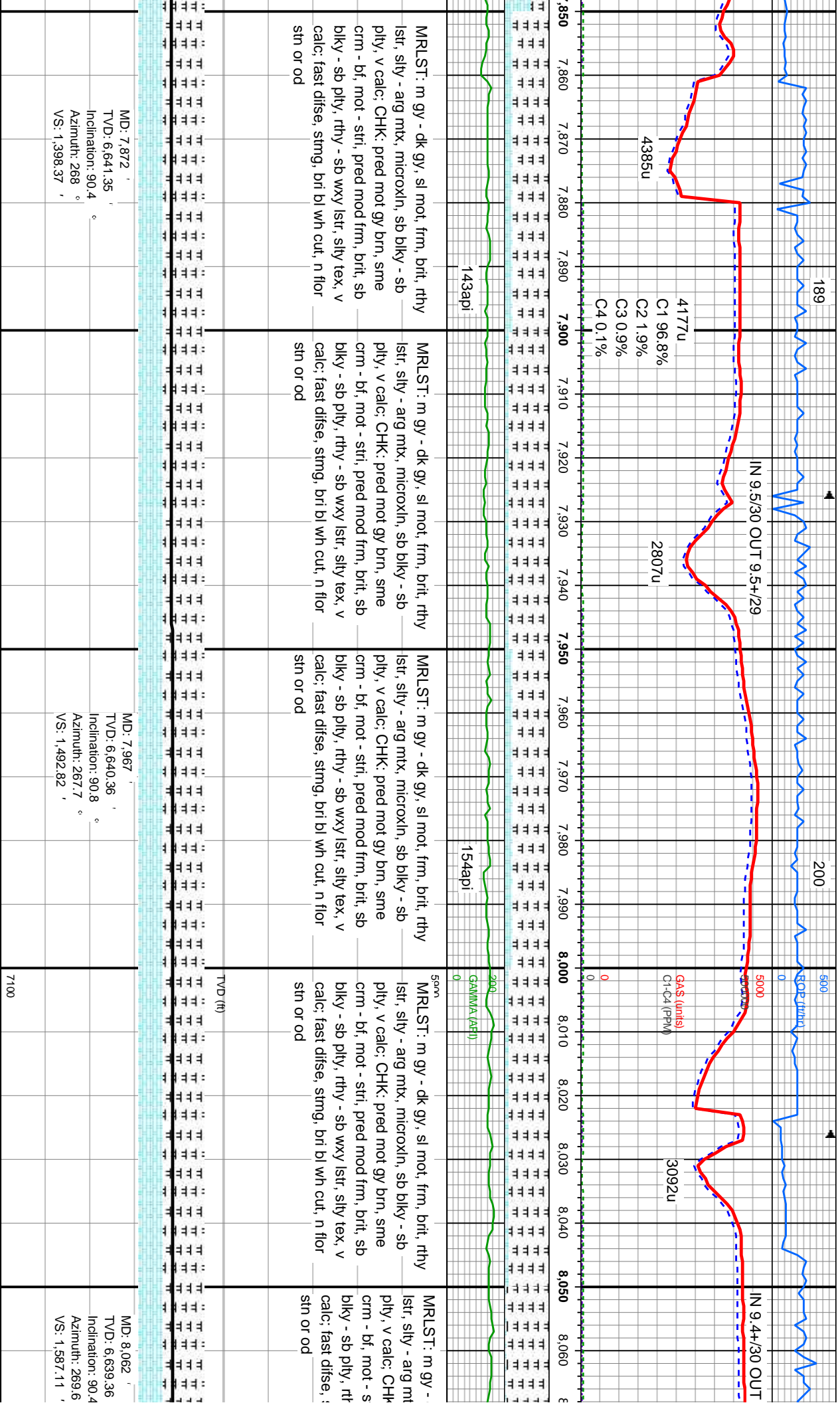
Depth (ft)	Log Description	Log Description	Log Description	Log Description
7,630	m - bf, mot - stri, y - sb ply, rthy - arg; MRLST: m gy - sb ply, v calc; tr gold mnrl flr, bi wh cut, n stn	CHK: mot gy brn, sme crm - bf, mot - stri, pred mod frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mt, microxln, sb blkly - sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stimg, mod bri bl wh cut, n stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mt, microxln, sb blkly - sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stimg, bri bl wh cut, n flr stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mt, microxln, sb blkly - sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stimg, bri bl wh cut, n flr stn or od



Depth (ft)	Log Description	Log Description	Log Description	Log Description
7,630	m - bf, mot - stri, y - sb ply, rthy - arg; MRLST: m gy - sb ply, v calc; tr gold mnrl flr, bi wh cut, n stn	CHK: mot gy brn, sme crm - bf, mot - stri, pred mod frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mt, microxln, sb blkly - sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stimg, mod bri bl wh cut, n stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mt, microxln, sb blkly - sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stimg, bri bl wh cut, n flr stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mt, microxln, sb blkly - sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stimg, bri bl wh cut, n flr stn or od

MD: 7.683 ' TVD: 6,647.71 ' Inclination: 92.7 ° Azimuth: 271 ° VS: 1,211.24 ' 7100





MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mtx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; fast difse, sting, bri bl wh cut, n flor
stn or od

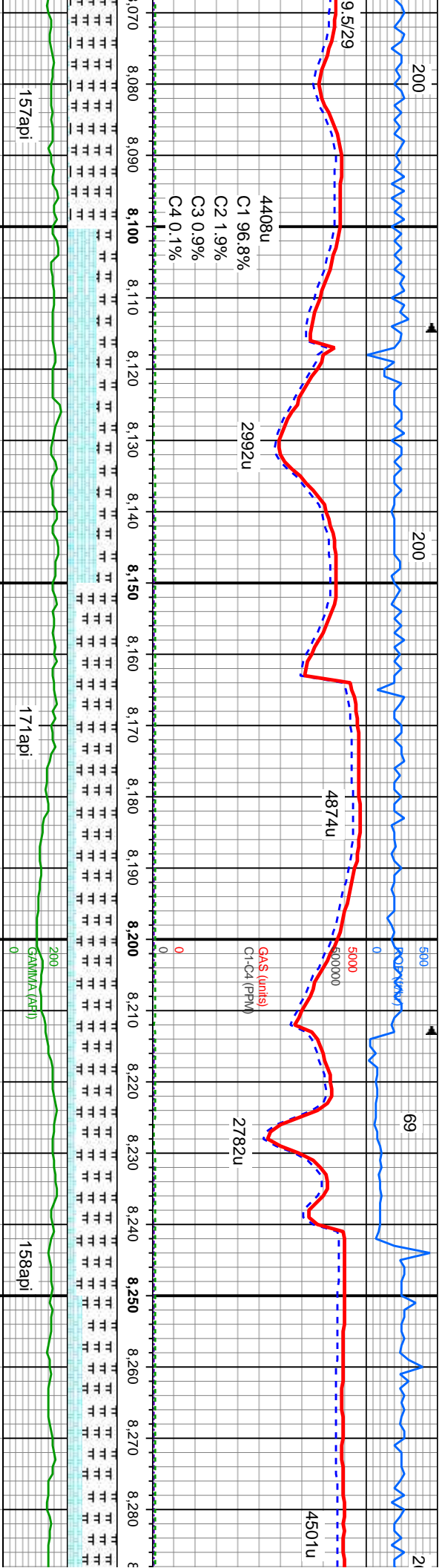
MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mtx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; fast difse, sting, bri bl wh cut, n flor
stn or od

MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mtx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; fast difse, sting, bri bl wh cut, n flor
stn or od

MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mtx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; fast difse, sting, bri bl wh cut, n flor
stn or od

MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mtx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; fast difse, sting, bri bl wh cut, n flor
stn or od





dk gy, sl mot, frm, brit, rthy
x, microxln, sb blkly - sb
stri, pred mod gy brn, sme
ry, pred mod frm, brit, sb
gy - sb wxy lstr, slty tex, v
fasting, bri bl wh cut, n flr

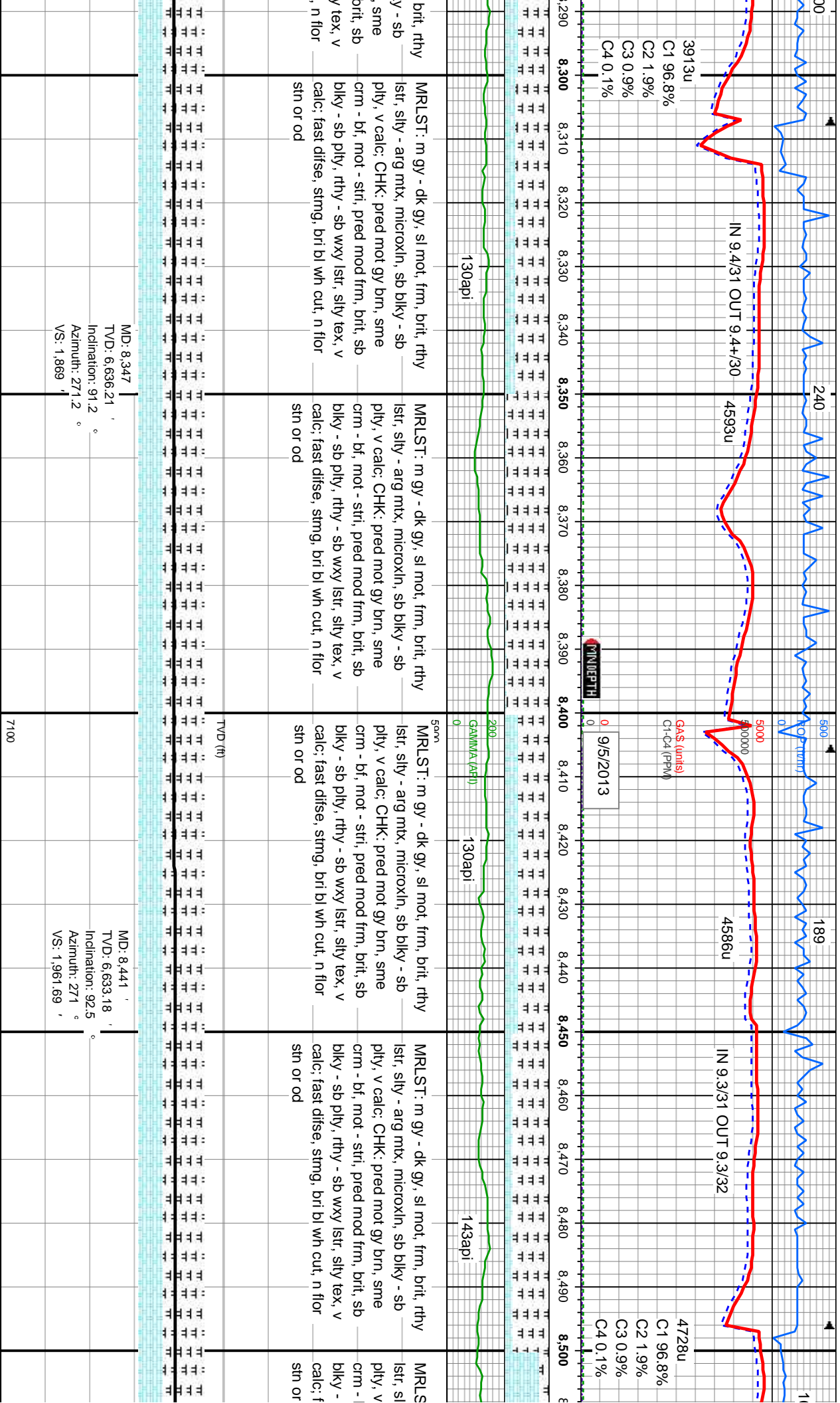
CHK: pred crm - bf, occ mot gy brn, mot -
stri, pred mod frm, brit, sb blkly - sb pily,
rthy - sb wxy lstr, slty tex, v calc; MRLST: m
gy - dk gy, sl mot, frm, brit, rthy lstr, slty -
arg mtx, microxln, sb blkly - sb pily, v calc;
fast difse, string, mod bri bl wh cut, n flr
stin or od

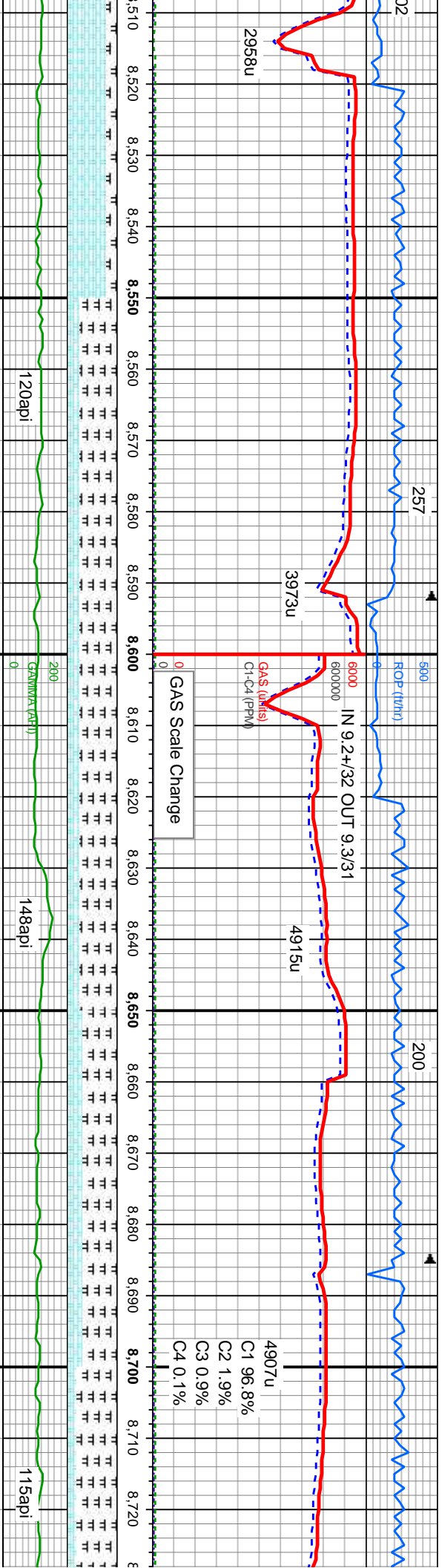
MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, slty - arg mtx, microxln, sb blkly - sb
pily, v calc; CHK: pred mod gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb pily, rthy - sb wxy lstr, slty tex, v
calc; fast difse, string, bri bl wh cut, n flr
stin or od

MRLST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, slty - arg mtx, microxln, sb blkly - sb
pily, v calc; CHK: pred mod gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb pily, rthy - sb wxy lstr, slty tex, v
calc; fast difse, string, bri bl wh cut, n flr
stin or od

MD: 8.157 TVD: 6,638.37 Inclination: 90.8 Azimuth: 268.9 VS: 1.681,28	MD: 8.252 TVD: 6,637.46 Inclination: 90.3 Azimuth: 271 VS: 1.775,29
7100	



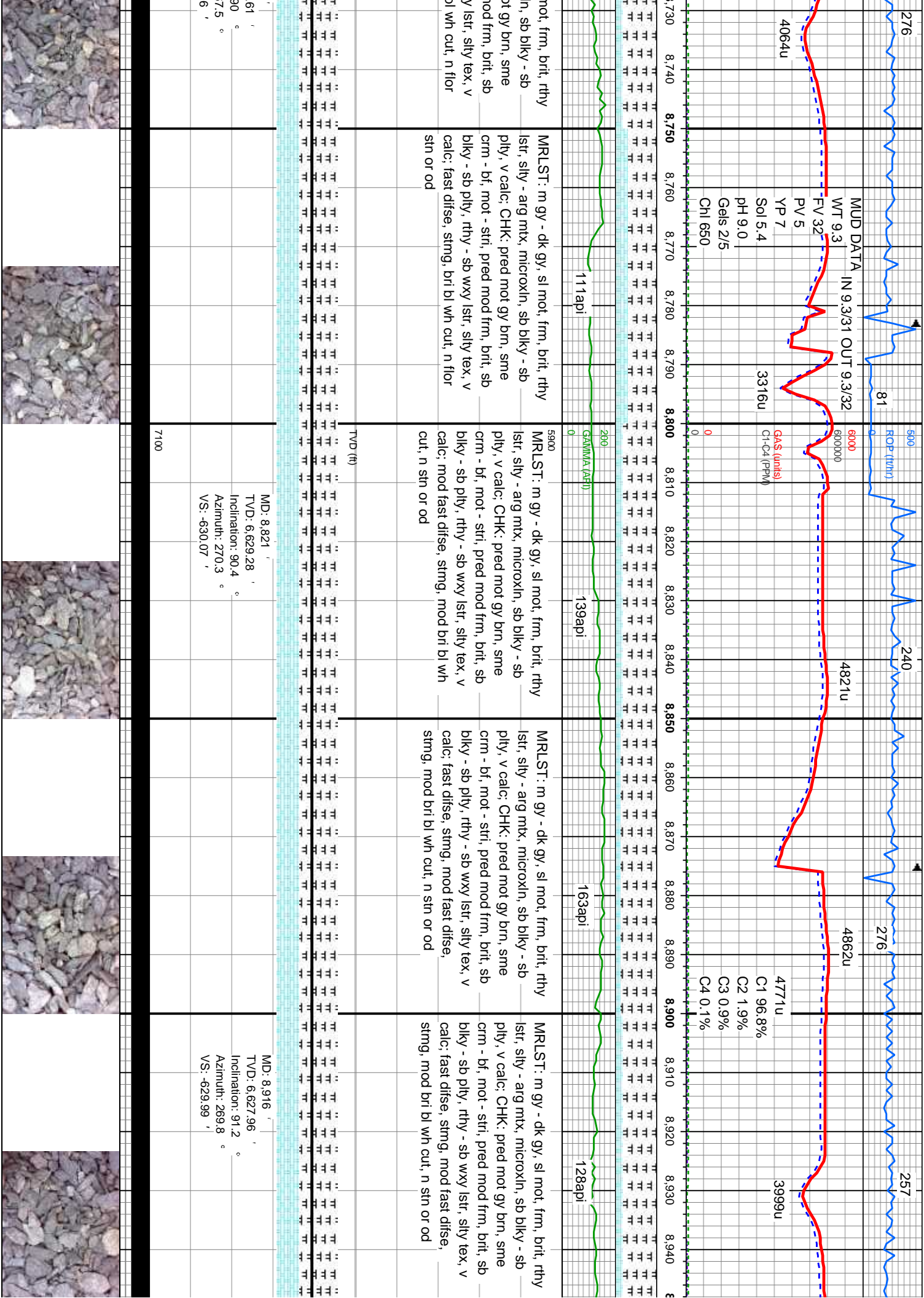


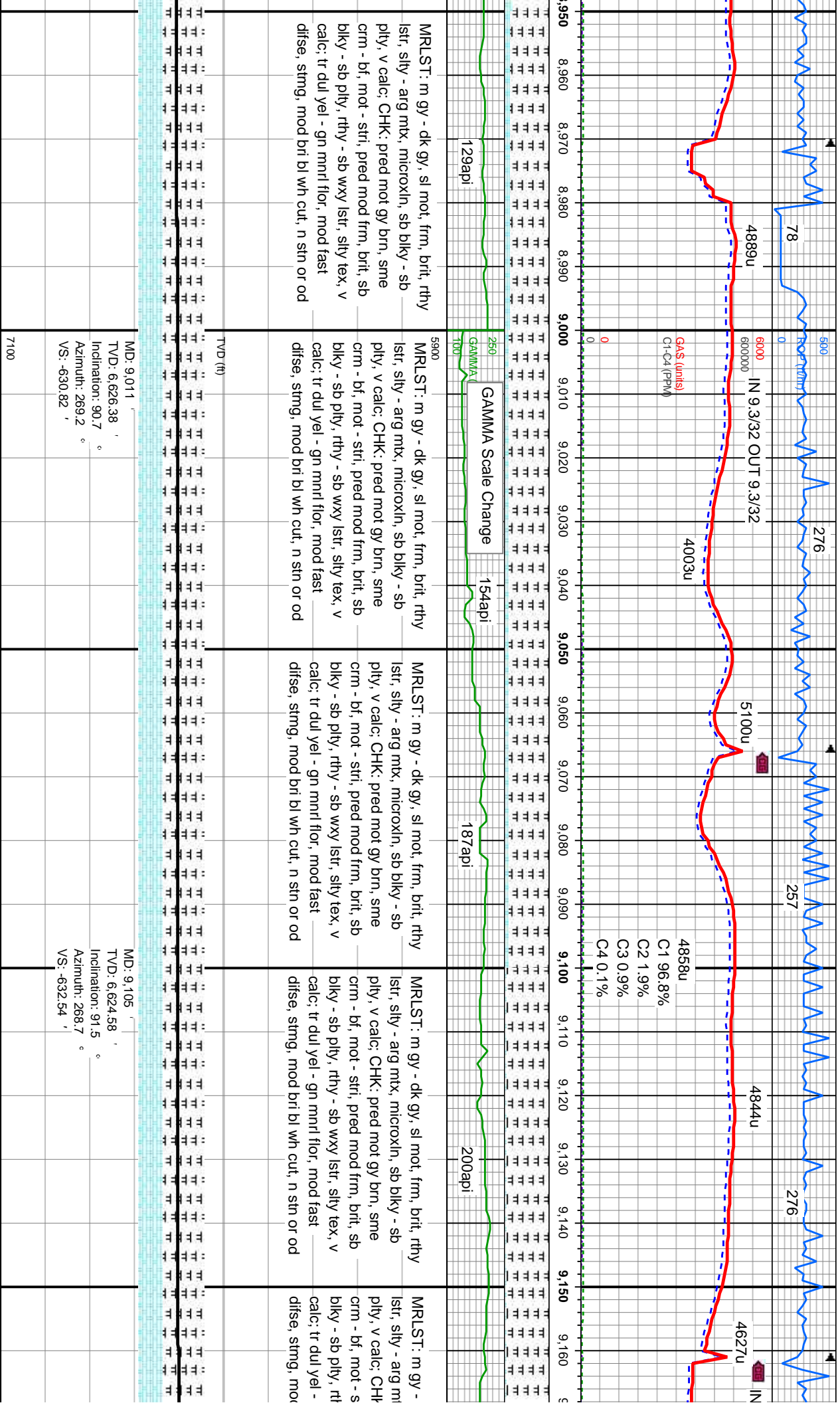


T: m gy - dk gy, sl mot, frm, brit, rthy arg mtx, microxln, sb blkly - sb calc; CHK: pred mot gy brn, sme bf, mot - stri, pred mod frm, brit, sb blkly, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxln, sb blkly - sb ply, v calc; CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxln, sb blkly - sb ply, v calc; CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxln, sb blkly - sb ply, v calc; CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od
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MD: 8,536 TVD: 6,629.53 Inclination: 91.9 Azimuth: 269.2 VS: 2,055.6				MD: 8,631 TVD: 6,628.78 Inclination: 89 Azimuth: 268.5 VS: 2,149.84				MD: 8,726 TVD: 6,629 Inclination: Azimuth: 26 VS: 2,244.2			
7100											







MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; tr dul yel - gn mnrl flor, mod fast
difse, sting, mod bri bl wh cut, n stn or od

MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; tr dul yel - gn mnrl flor, mod fast
difse, sting, mod bri bl wh cut, n stn or od

MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; tr dul yel - gn mnrl flor, mod fast
difse, sting, mod bri bl wh cut, n sin or od

MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; tr dul yel - gn mnrl flor, mod fast
difse, sting, mod bri bl wh cut, n stn or od

MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lstr, silty - arg mx, microxln, sb blkly - sb
ply, v calc; CHK: pred mot gy brn, sme
crm - bf, mot - stri, pred mod frm, brit, sb
blkly - sb ply, rthy - sb wxy lstr, silty tex, v
calc; tr dul yel - gn mnrl flor, mod fast
difse, sting, mod bri bl wh cut, n stn or od

TVD (ft)

MD: 9.011

TVD: 6,626.38

Inclination: 90.7

Azimuth: 269.2

VS: -630.82

7100

MD: 9.105

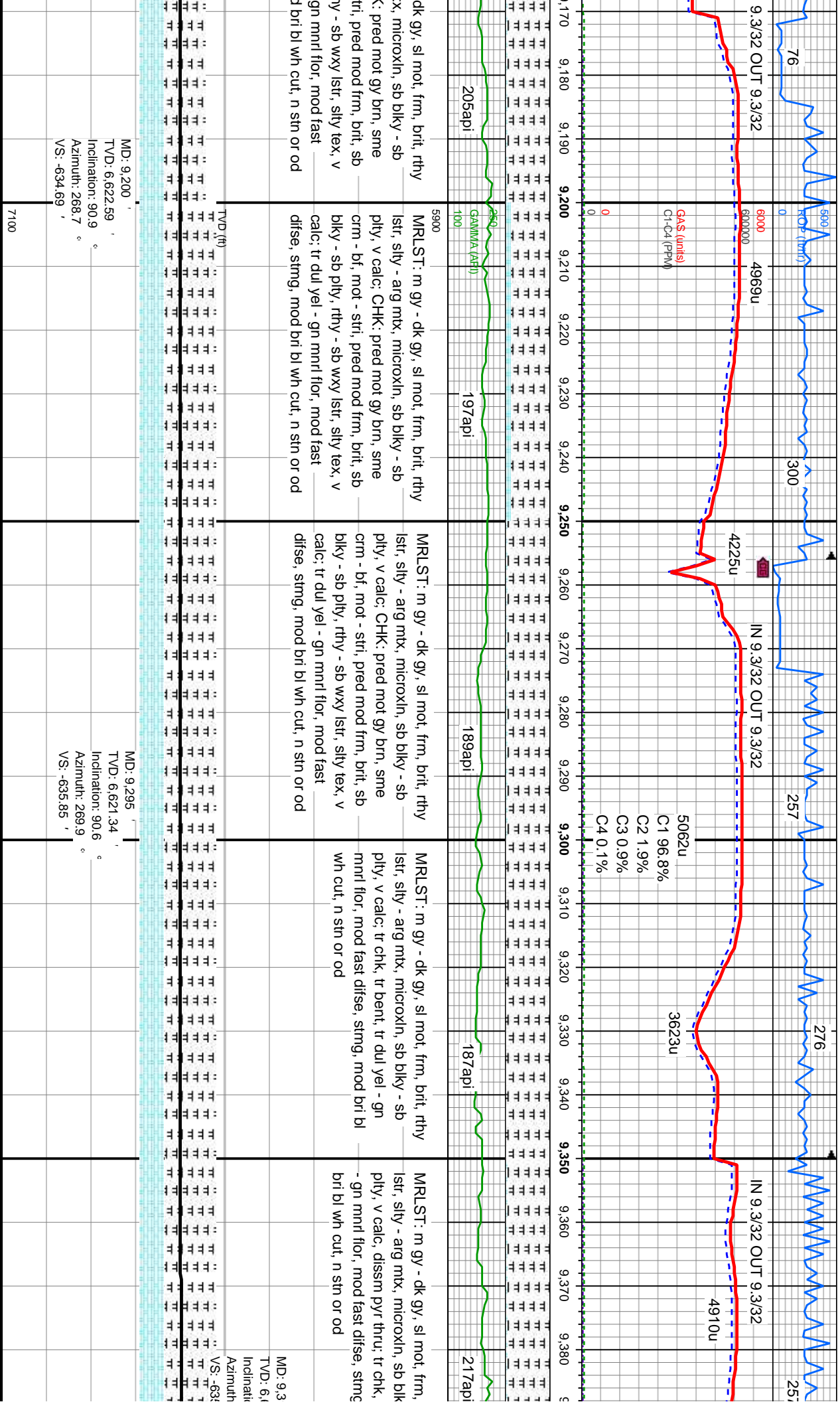
TVD: 6,624.58

Inclination: 91.5

Azimuth: 268.7

VS: -632.54





dk gy, sl mot, frm, brit, rthy
x, microxl, sb blk - sb
: pred mot gy brn, sme
- pred mod frm, brit, sb
y - sb wxy lst, slty tex, v
gn mnrl flr, mod fast
d bri bl wh cut, n stn or od

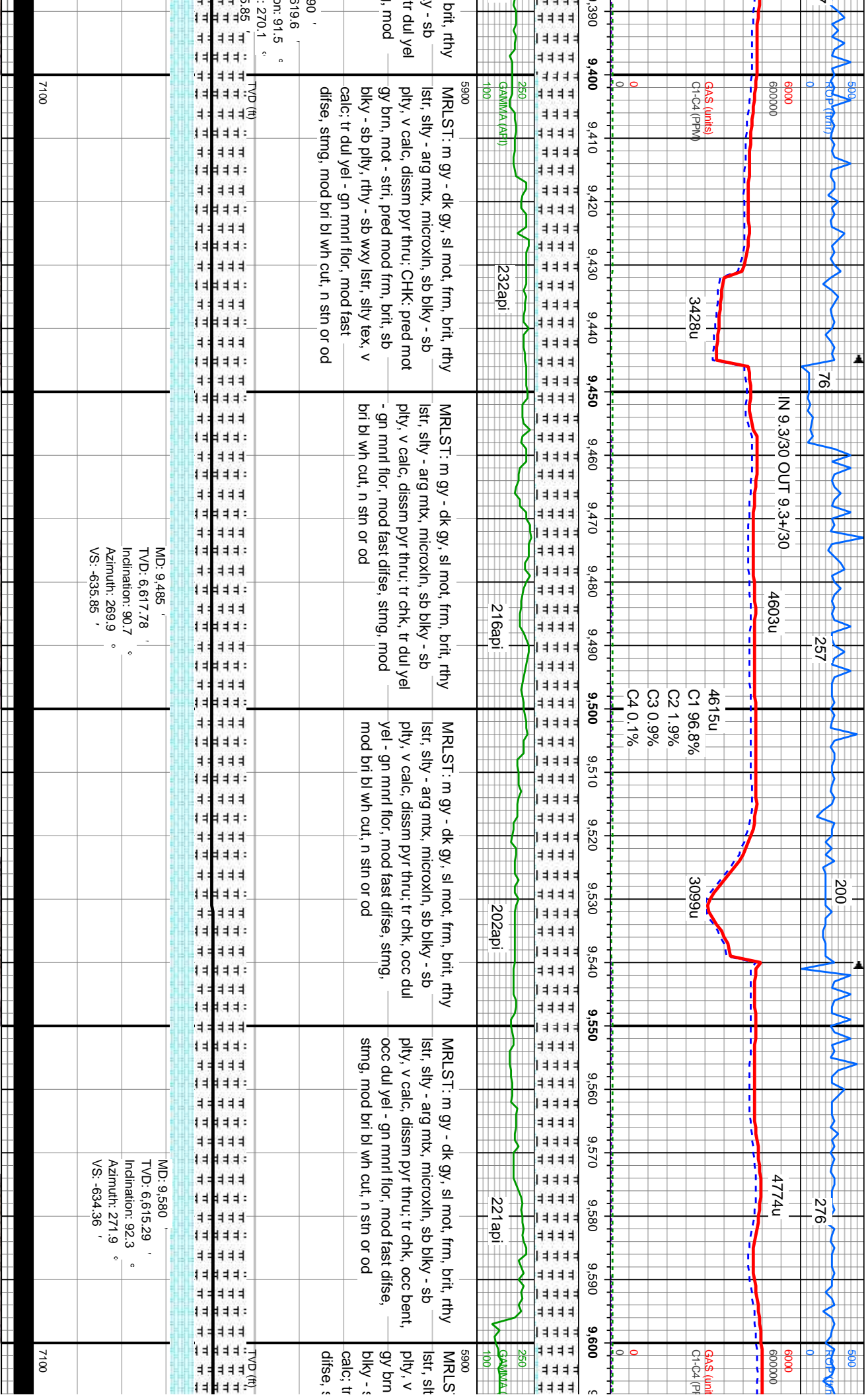
MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lst, slty - arg mx, microxl, sb blk - sb
ply, v calc; CHK: pred mot gy brn, sme
crn - bf, mot - stri, pred mod frm, brit, sb
blk - sb ply, rthy - sb wxy lst, slty tex, v
calc; tr dul yel - gn mnrl flr, mod fast
dise, stimg, mod bri bl wh cut, n stn or od

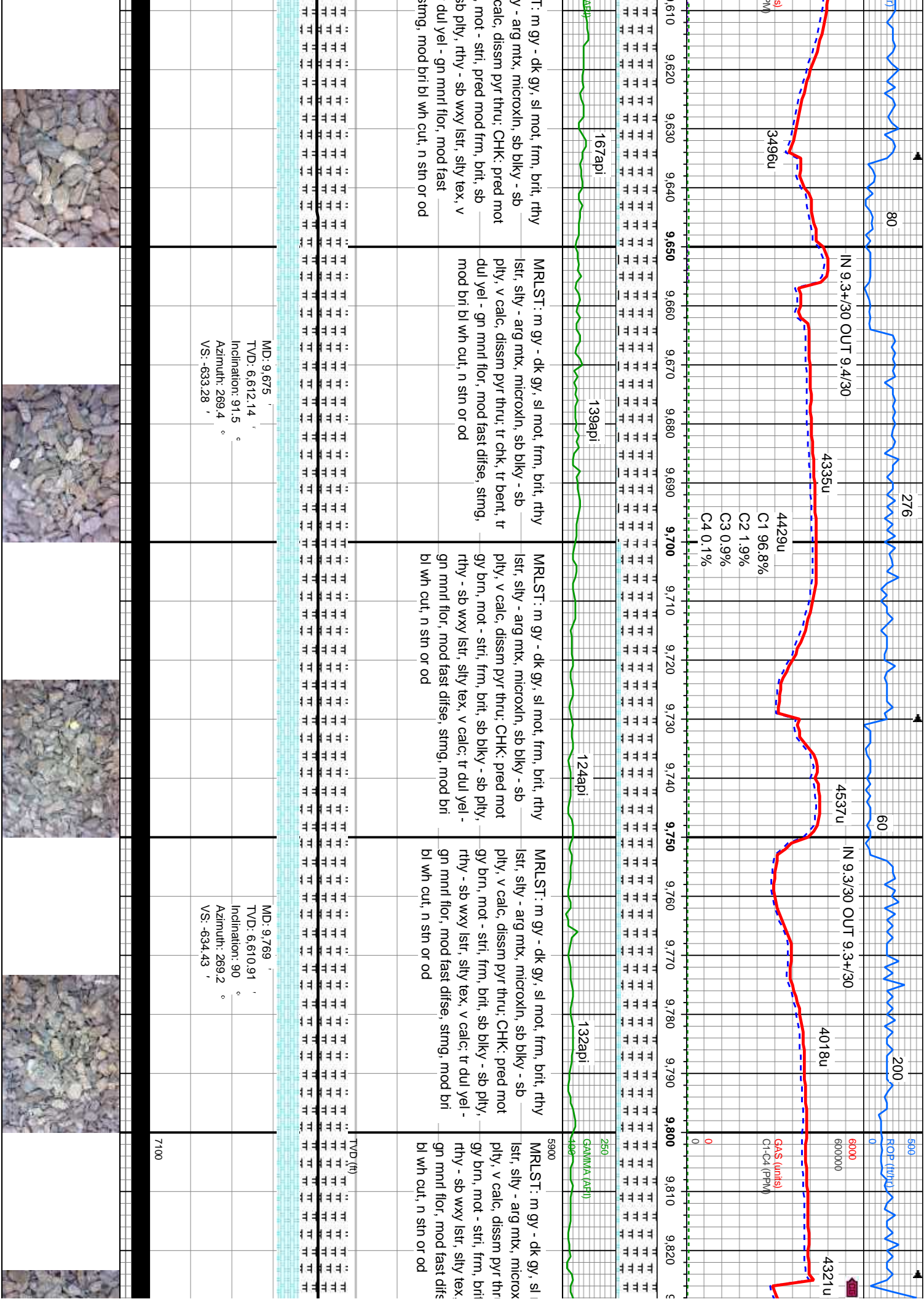
MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lst, slty - arg mx, microxl, sb blk - sb
ply, v calc; CHK: pred mot gy brn, sme
crn - bf, mot - stri, pred mod frm, brit, sb
blk - sb ply, rthy - sb wxy lst, slty tex, v
calc; tr dul yel - gn mnrl flr, mod fast
dise, stimg, mod bri bl wh cut, n stn or od

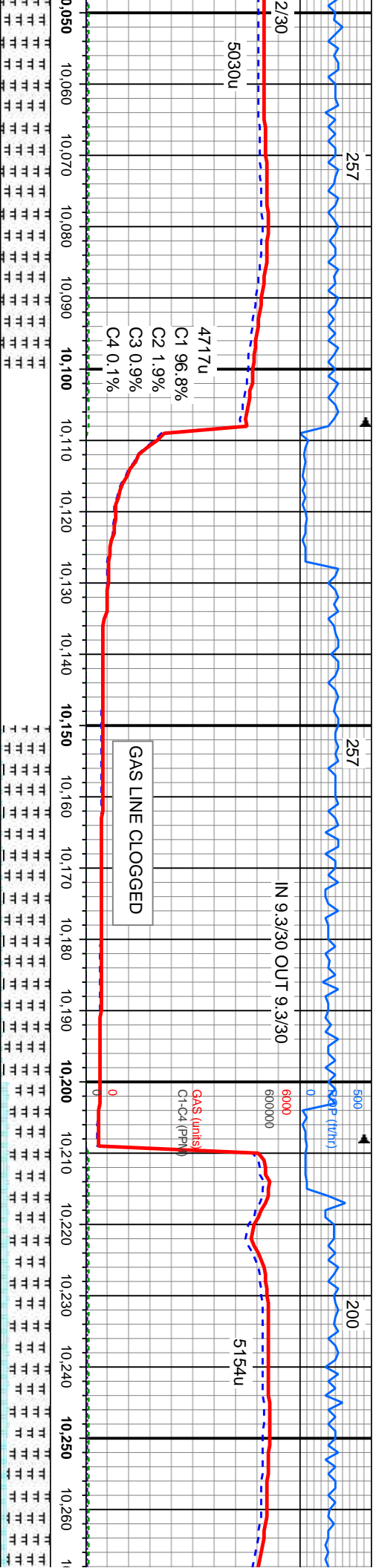
MR.LST: m gy - dk gy, sl mot, frm, brit, rthy
lst, slty - arg mx, microxl, sb blk - sb
ply, v calc; tr chk, tr bent, tr dul yel - gn
mnrl flr, mod fast dise, stimg, mod bri bl
wh cut, n stn or od

MR.LST: m gy - dk gy, sl mot, frm,
lst, slty - arg mx, microxl, sb blk
ply, v calc, diss pyr thru; tr chk,
- gn mnrl flr, mod fast dise, stimg,
bri bl wh cut, n stn or od



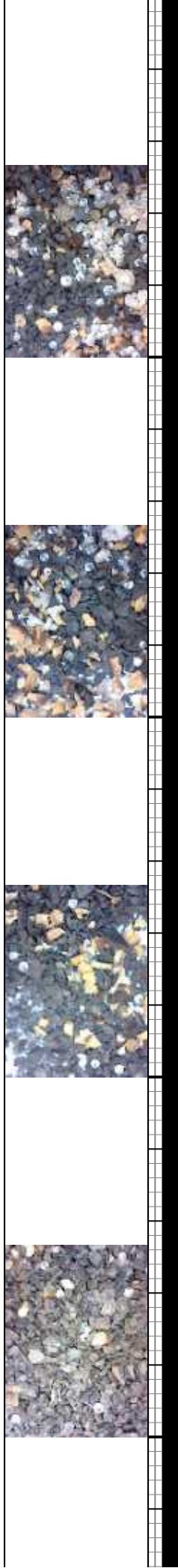


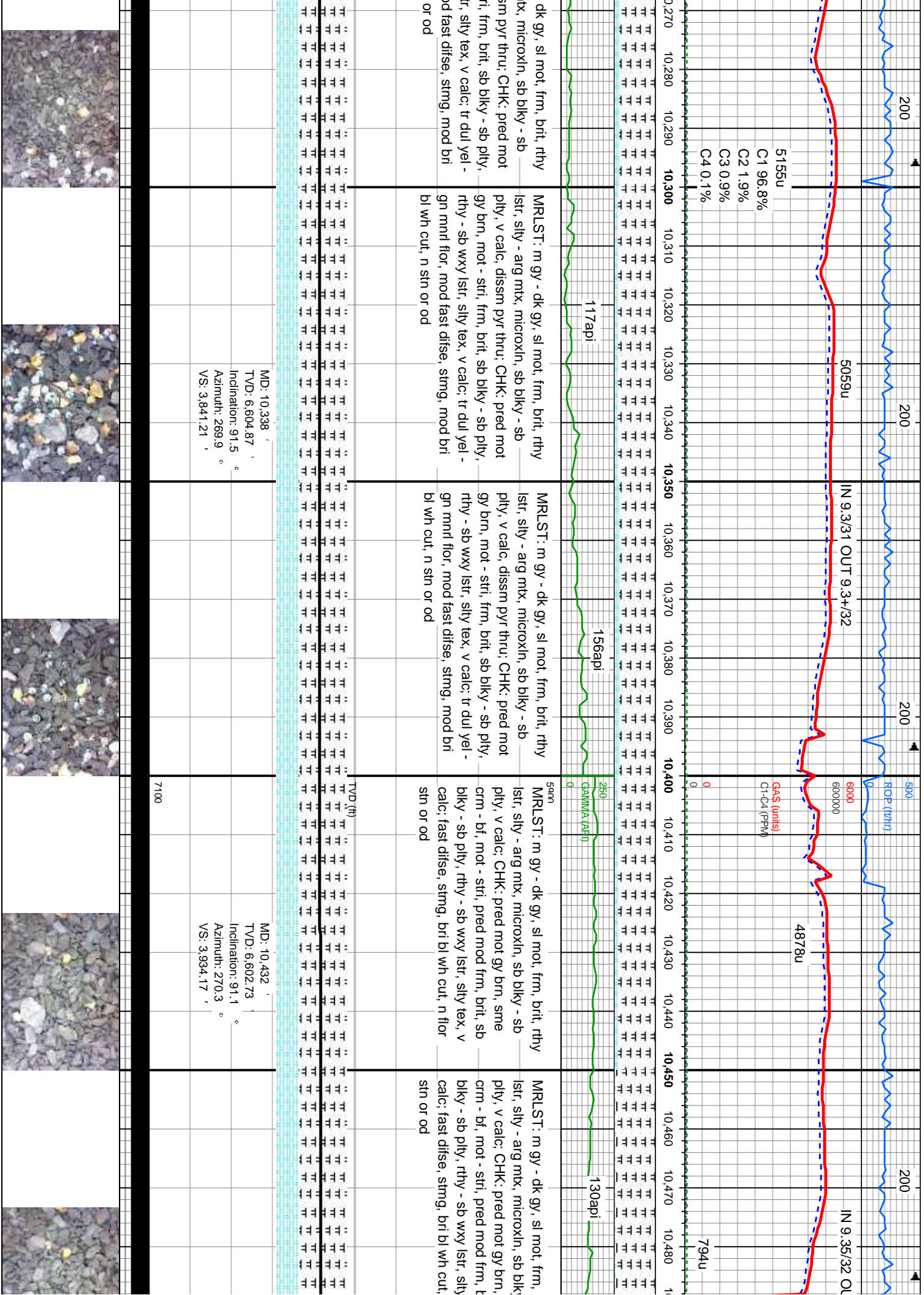


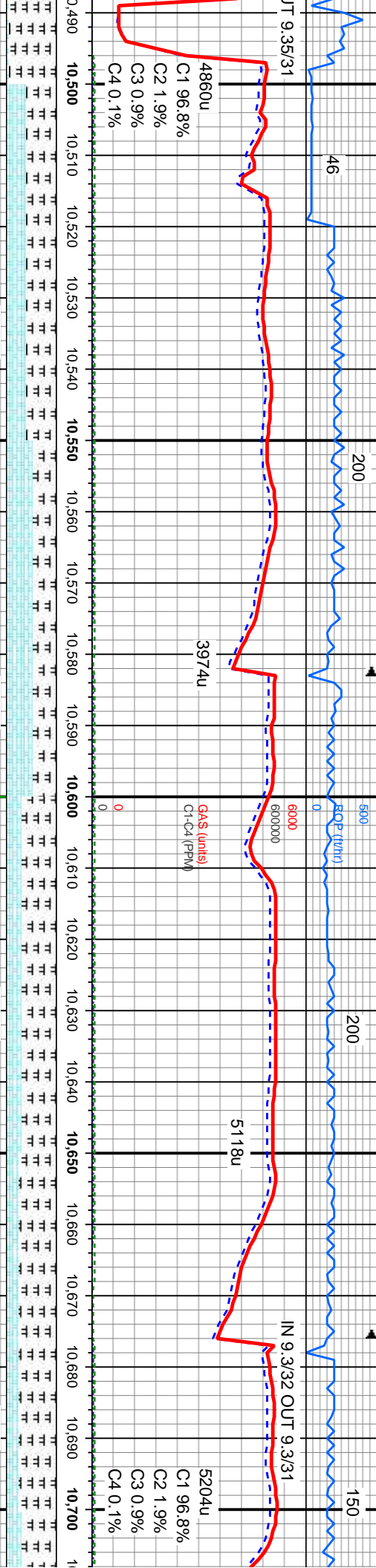


Depth (ft)	Sample Analysis Results	Gas Line Status
10,050	MR LST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blkly - sb ply, v calc, dissim pyr thru; CHK: pred mot gy brn, mot - stri, frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; tr dul yel - gn mnrl flr, mod fast difse, stmg, mod bri bl wh cut, n stn or od	GAS LINE CLOGGED
10,100	SAMPLE WAS ALL DRILLING BEADS NO CUTTINGS	GAS LINE CLOGGED
10,150	MR LST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blkly - sb ply, v calc, dissim pyr thru; CHK: pred mot gy brn, mot - stri, frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; tr dul yel - gn mnrl flr, mod fast difse, stmg, mod bri bl wh cut, n stn or od	GAS LINE CLOGGED
10,200	MR LST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blkly - sb ply, v calc, dissim pyr thru; CHK: pred mot gy brn, mot - stri, frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; tr dul yel - gn mnrl flr, mod fast difse, stmg, mod bri bl wh cut, n stn or od	GAS LINE OPEN
10,250	MR LST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blkly - sb ply, v calc, dissim pyr thru; CHK: pred mot gy brn, mot - stri, frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; tr dul yel - gn mnrl flr, mod fast difse, stmg, mod bri bl wh cut, n stn or od	GAS LINE OPEN

Depth (ft)	Sample Analysis Results	Gas Line Status
10,053	MD: 10,053 TVD: 6,608.1 Inclination: 91.4 Azimuth: 268.5 VS: 3,558.6	GAS LINE CLOGGED
10,148	MD: 10,148 TVD: 6,606.86 Inclination: 90.1 Azimuth: 267.8 VS: 3,652.98	GAS LINE CLOGGED
10,243	MD: 10,243 TVD: 6,606.44 Inclination: 90.4 Azimuth: 270.1 VS: 3,747.22	GAS LINE OPEN







brt, rthy	MRST: m gy - dk gy, sl mot, frm, brt, rthy	CHK: pred mot gy brn, occ crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr
brt, rthy	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	CHK: pred mot gy brn, occ crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr	MRST: m gy - dk gy, sl mot, frm, brt, rthy lstr, silty - arg mt, microxln, sb bly - sb ply, v calc: CHK: pred mot gy brn, sme crm - bf, mot - stri, pred mod frm, brt, sb bly - sb ply, rthy - sb wxy lstr, silty tex, v calc: fast difse, sting, bri bl wh cut, n flr

