



Scale: 5" / 100'
Measured Depth Log

Well Name Wahlerf_AC23-68-HN_Horizontal

Location NENE S23 T7N R63W

State COLORADO

Country USA

API Number 05-123-37157

Region DJ BASIN

Spud Date 8/20/2013

Surface Coordinates 355' FNL, 280' FEL

Bottom Hole Coordinates 660' FNL, 535' FWL

County WELD

Rig Number ENSIGN #121

AFE # 138931

Field WATTENBERG

Ground Elevation 4788'

K.B. Elevation 4801'

Logged Interval 1100 To 11104

Total Depth 11104

Formation NIOBRARA B CHALK

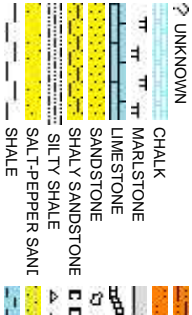
Type of Drilling Fluid H2O, LSND

Company ENCANA OIL A

Name RYAN SULLIVAN

Company COLUMBINE LOGGING

Address 2385 S LIPAN
DENVER, CO 80231



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

-  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
-  CALCAREOUS
-  CARBONACEOUS FLAKES
-  CHDK
-  CHLT
-  COAL - THIN BEDS
-  DOLOMITIC
-  FELDSPAR
-  FERRUGINOUS PELLET
-  FERRUGINOUS
-  SILTY
-  SILTY

Stringer





















-  TUFFACEOUS
-  GLAUCONITE
-  GYPSIFEROUS
-  HEAVY MINERAL
-  INOCERAMUS
-  K KAOLIN
-  T MARLSTONE
-  MINERAL CRYSTALS
-  NODULES
-  PHOSPHATE PELLET
-  P PYRITE
-  SALT CAST
-  SANDY
-  SILTY
-  SHALE STRINGER
-  SILTSTONE STRINGER

Other Symbols














Oil Show

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




Engineering

-  BIT
-  CONNECTION (LEFT)
-  CONNECTION (RIGHT)
-  CONNECTION GAS
-  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)
-  SLIDE
-  SURVEY
-  TRIP GAS




Rounding

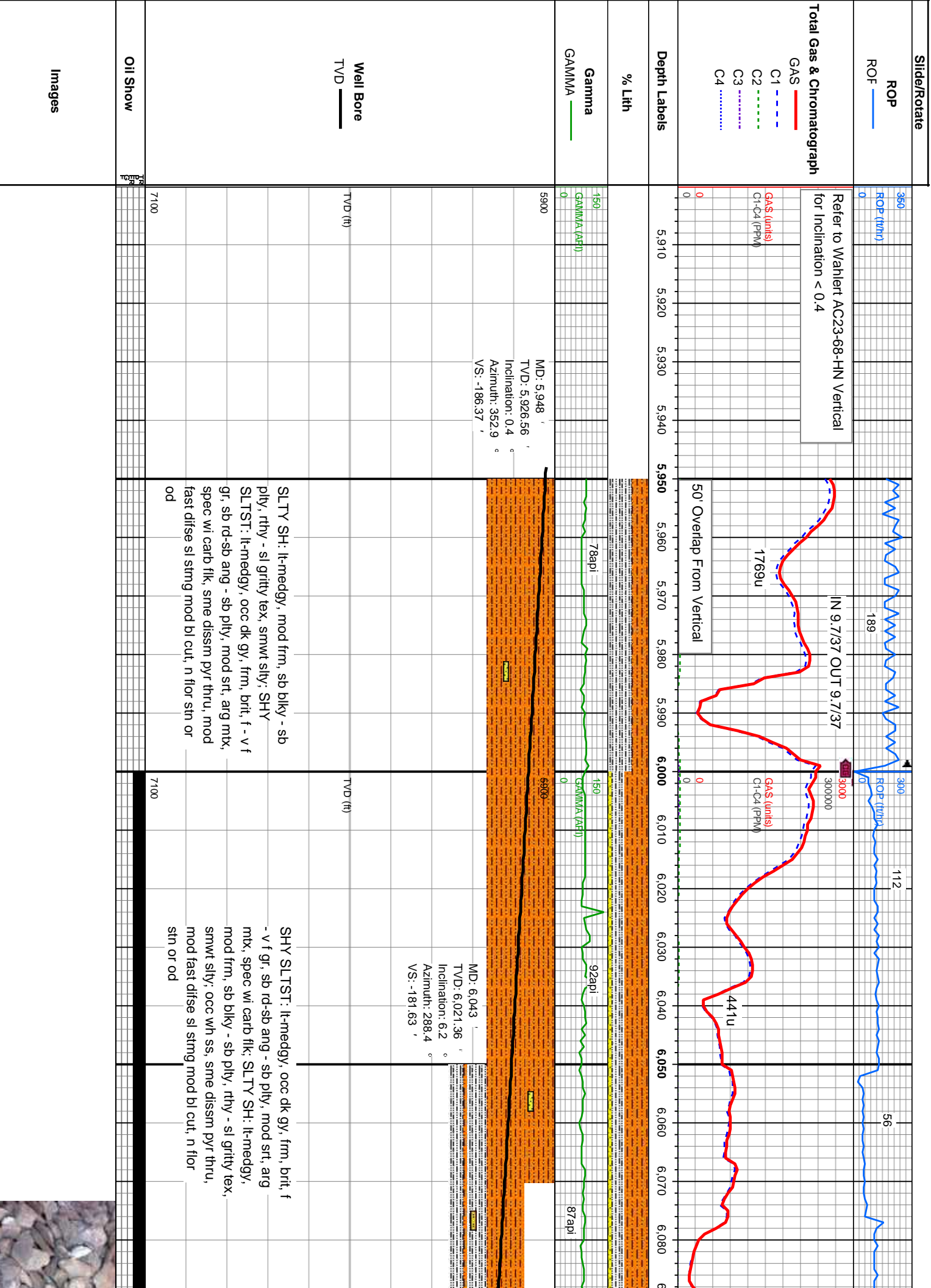
-  WIRELINE TESTED - LEFT
-  WIRELINE TESTED - RT
-  FX FINELYXLN
-  GS GRAINSTONE
-  L LITHOGRAPHIC
-  A ANGULAR
-  R ROUNDED
-  B SUBANG
-  R SUBRND
-  MX MICROXLN
-  MS MUDSTONE
-  PS PACKSTONE
-  WS WACKESTONE

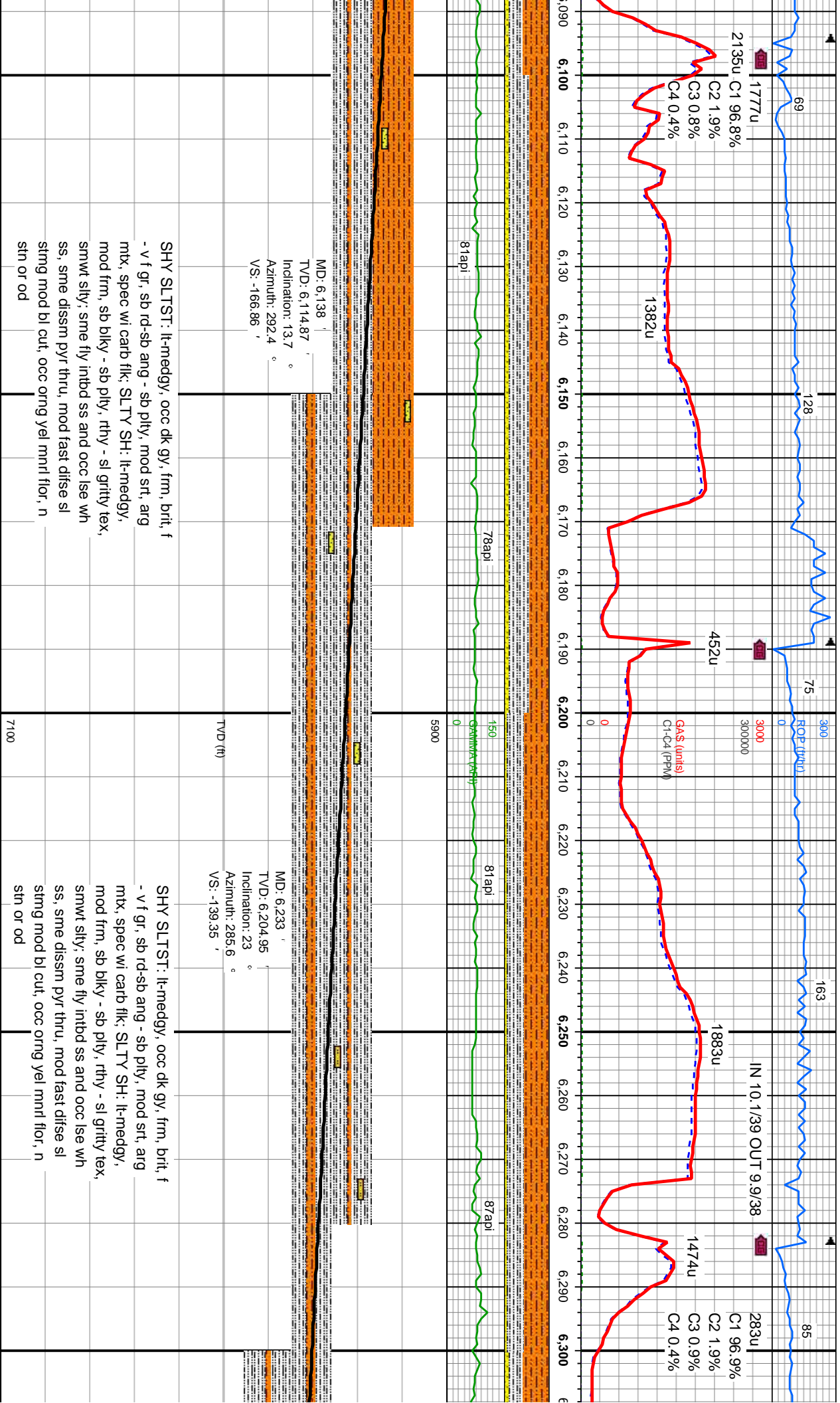
Textures

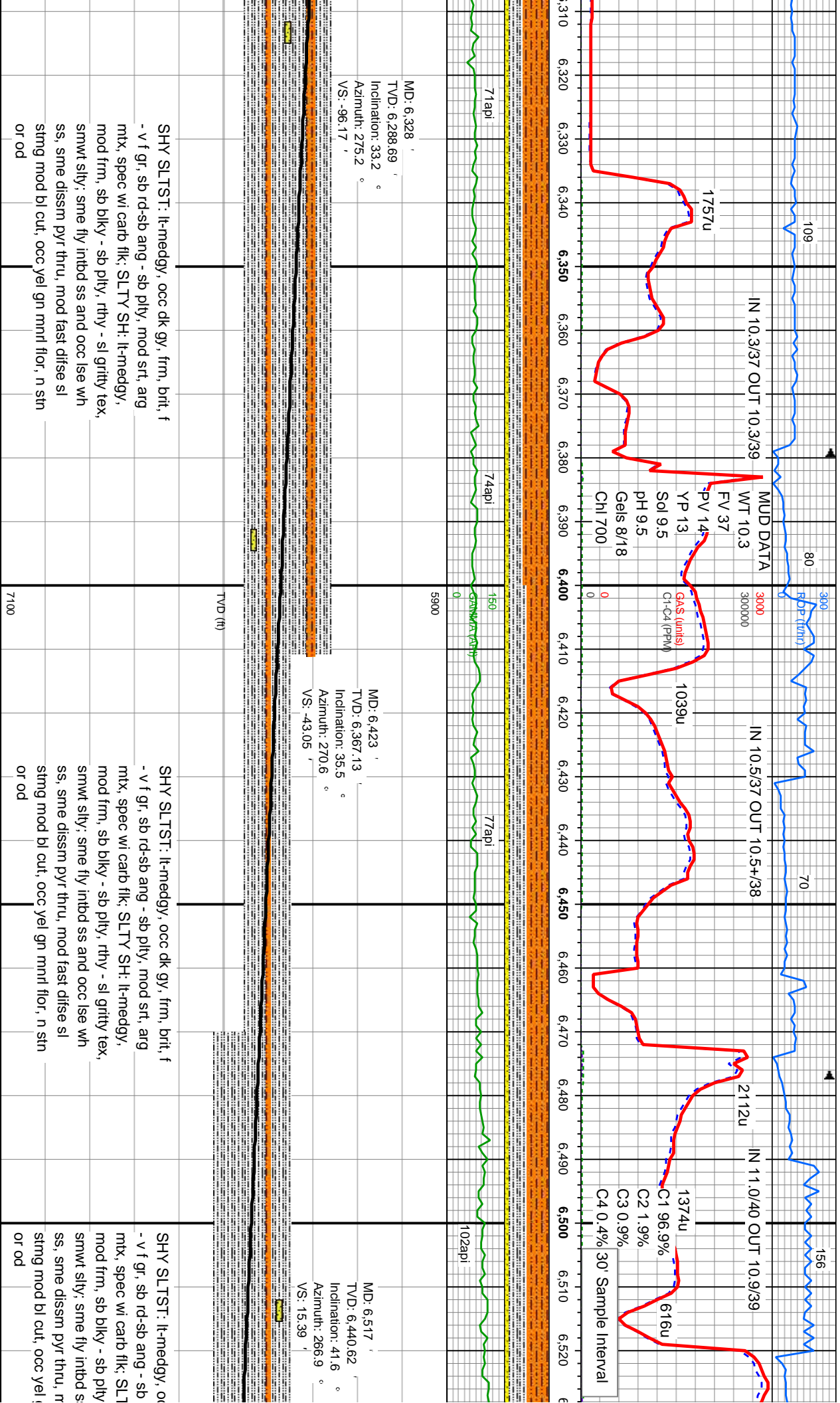
-  BS BOUNDSTONE
-  C CHALKY
-  CX CRYPTOXLN

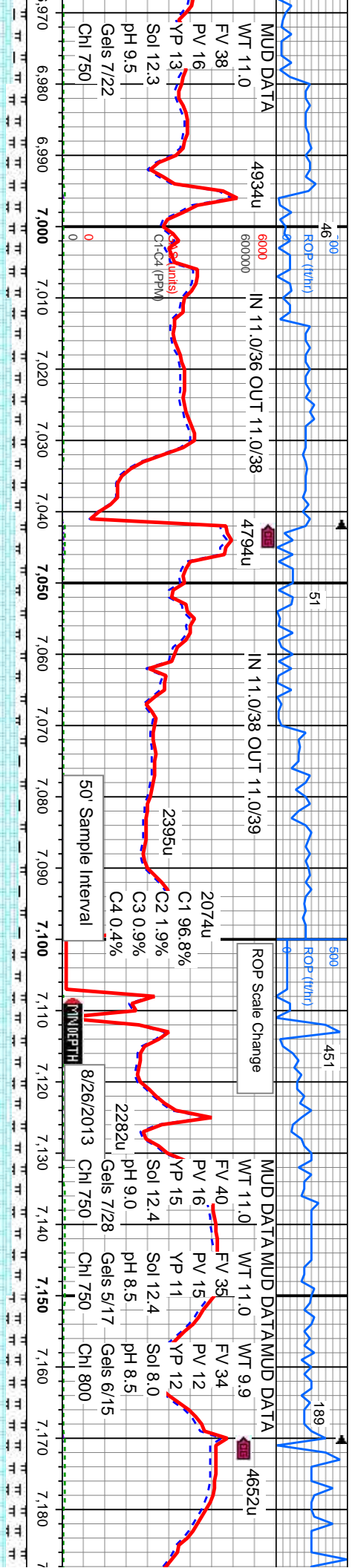
Sorting

-  M MODERATE
-  P POOR
-  W WELL









64api 200 53api 5900

GA GAMMA (API)

CHK: crm - bf, stri, pred mod frm - sme sft, brit - fri, sb blkly - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb blkly - sb pily, sme cal incl, calc, mod fast disse sl stmg mod bl cut, n flor sin or od

CHK: crm - bf, stri, pred mod frm - sme sft, brit - fri, sb blkly - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb blkly - sb pily, sme cal incl, calc, tr bent wi dissim pyr, tr dul yel gn mnri flor, mod fast disse sl stmg mod bl cut, n stn or od

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shalk @ 6' TVD

TVD (ft)

Curve landed @ 7108' MD @ 09:00 hrs on 08/24/2013

Resume drilling @ 22:10 hrs on 08/25/13

BHA #3 INFORMATION
BIT: 6.125" SMITH SD513
BIT SERIAL NUMBER: JH1150

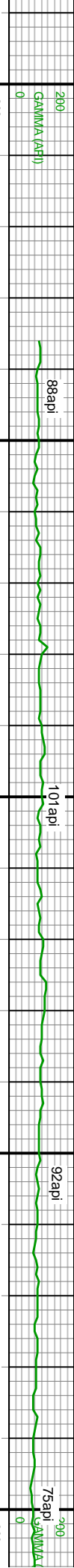
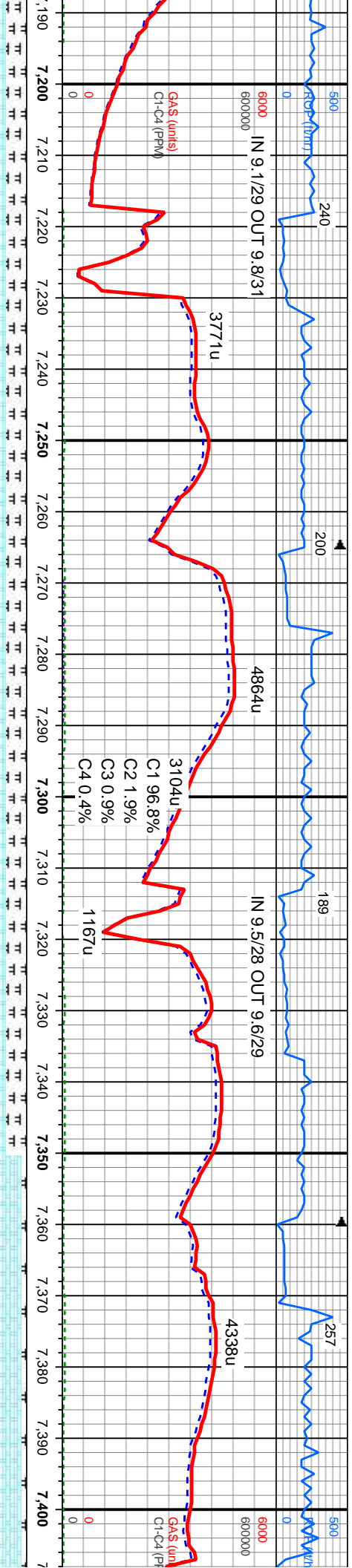
MD: 6,992 ' TVD: 6,669.8 ' Inclination: 80.5 ° Azimuth: 267.7 ' VS: 417.01 ' 7100

MD: 7,058 ' TVD: 6,677.72 ' Inclination: 85.7 ° Azimuth: 266.1 ' VS: 482.48 ' 7100

MD: 7,115 ' TVD: 6,681.1 ' Inclination: 87.5 ° Azimuth: 267.1 ' VS: 539.37 ' 7100

MD: 7,162 ' TVD: 6,682.7 ' Inclination: 88.6 ° Azimuth: 266.2 ' VS: 586.33 ' 7100



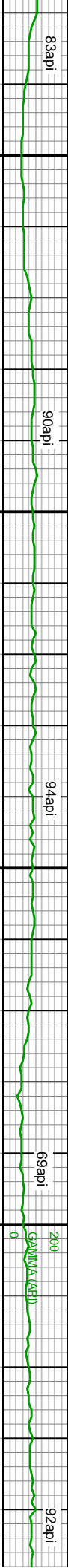
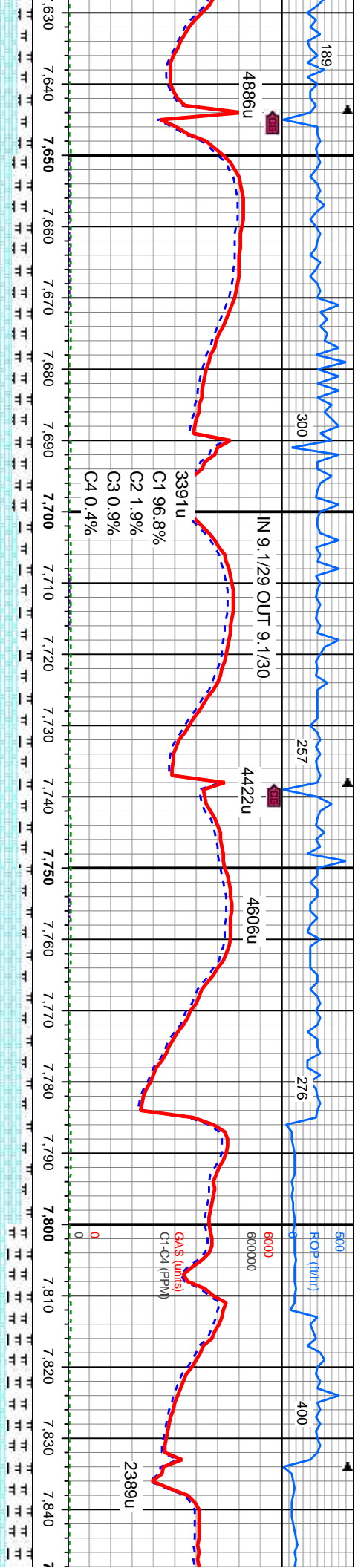


5900	CHK: crm - bf, stri, pred mod frm - sme sft, brit - fri, sb blkly - sb pily, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blkly - sb pily, sme cal incl, calc, tr bent wi dissm pyr, tr dul yel gn mnrl flr, mod fast disse sl stmg mod bl cut, n stn or od	5900	CHK: crm - bf, stri, pred mod frm - sme sft, brit - fri, sb blkly - sb pily, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blkly - sb pily, sme cal incl, calc, tr bent wi dissm pyr, tr dul yel gn mnrl flr, mod fast disse sl stmg mod bl cut, n stn or od	5900	CHK: crm - bf, stri, pred mod frm - sme sft, brit - fri, sb blkly - sb pily, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxin, sb blkly - sb pily, sme cal incl, calc, mod fast disse sl stmg mod bl cut, n flr stn or od
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TVD (ft)	TVD (ft)	TVD (ft)
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MD: 7,210 ' TVD: 6,683.29 ' Inclination: 90 ° Azimuth: 266.2 ° VS: 634.32 ' 7100	MD: 7,304 ' TVD: 6,683.29 ' Inclination: 90 ° Azimuth: 264.7 ° VS: 728.32 ' 7100	MD: 7,399 ' TVD: 6,683.46 ' Inclination: 89.8 ° Azimuth: 264.5 ° VS: 823.31 ' 7100
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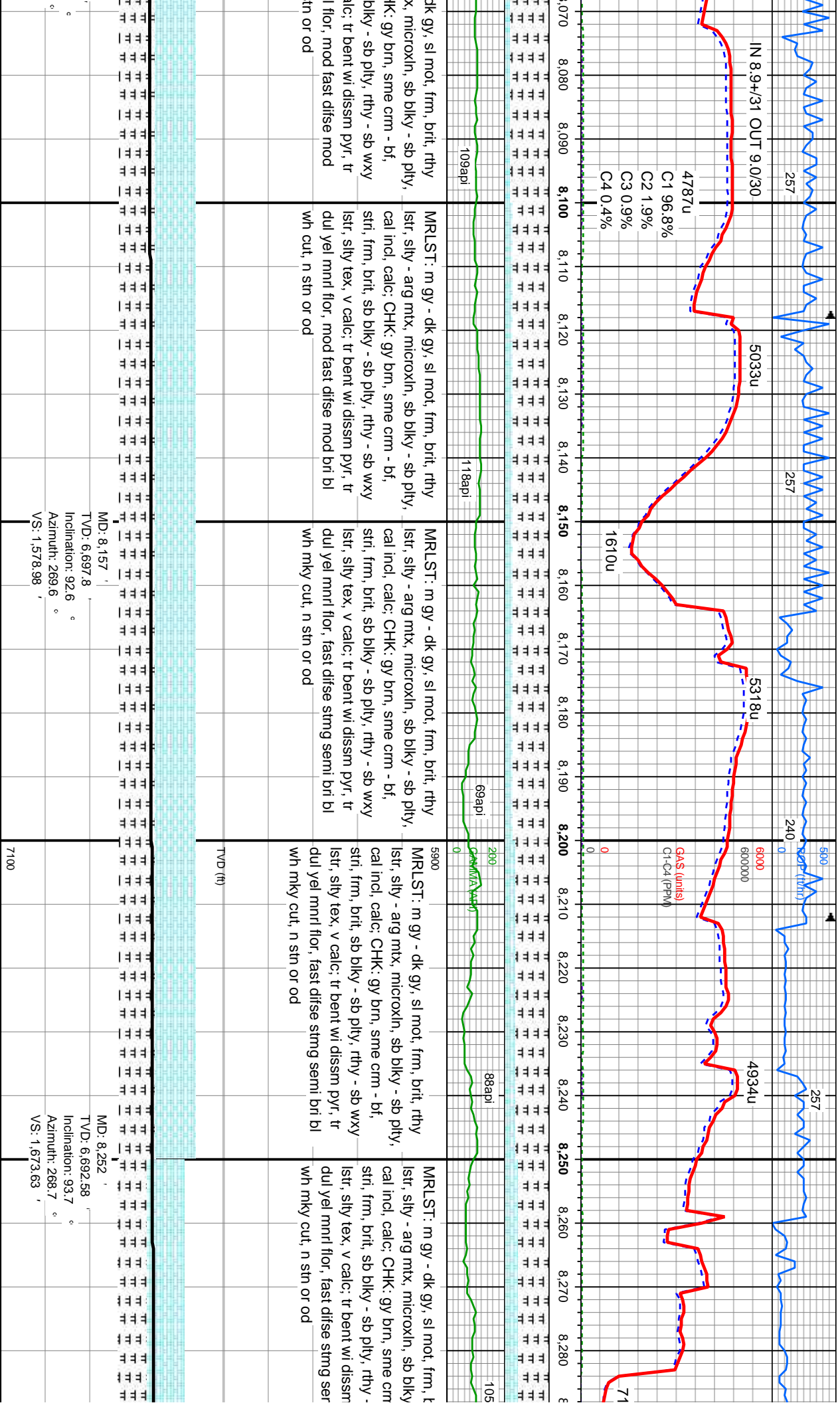
CHK: crm - bf, stri, frm, brit, sb blkly - sb plty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb blkly - sb plty, cal incl, calc, tr bent wi dissim pyr, tr dul yel gn mnrl flor, mod fast difse sl stmg mod bl cut, n stn or od

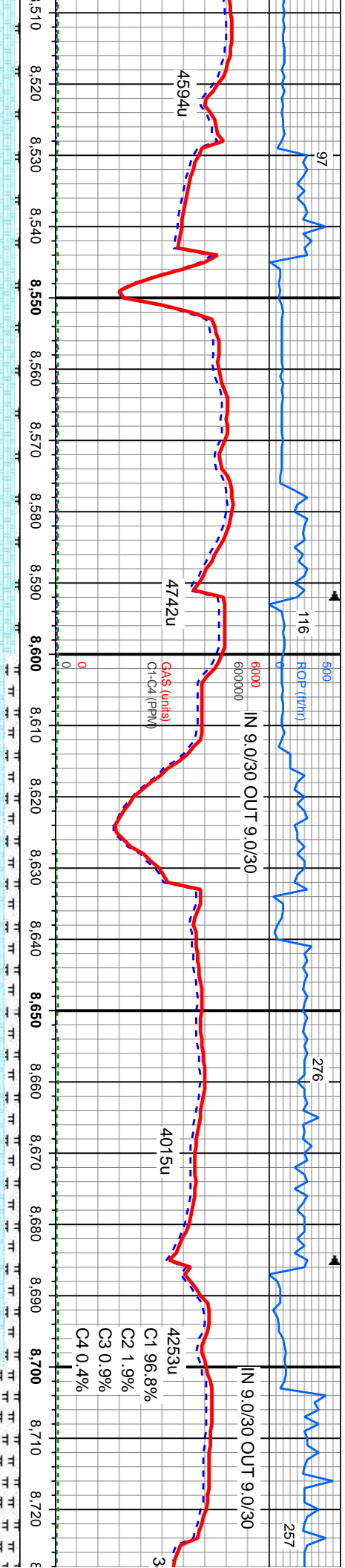
CHK: crm - bf, stri, frm, brit, sb blkly - sb plty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb blkly - sb plty, cal incl, calc, tr bent wi dissim pyr, tr dul yel gn mnrl flor, immed difse stmg bri bl wh mky cut, n stn or od

CHK: crm - bf, stri, frm, brit, sb blkly - sb plty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb blkly - sb plty, cal incl, calc, tr bent wi dissim pyr, tr dul yel gn mnrl flor, immed difse stmg bri bl wh mky cut, n stn or od

MD: 7.683	TVD: 6,693.69	Inclination: 88.6	Azimuth: 270.5	VS: 1,106.81
MD: 7.778	TVD: 6,694.35	Inclination: 90.6	Azimuth: 270.1	VS: 1,201.45
7100				

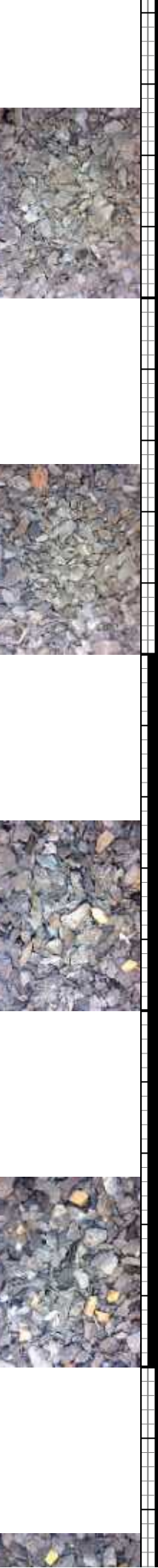


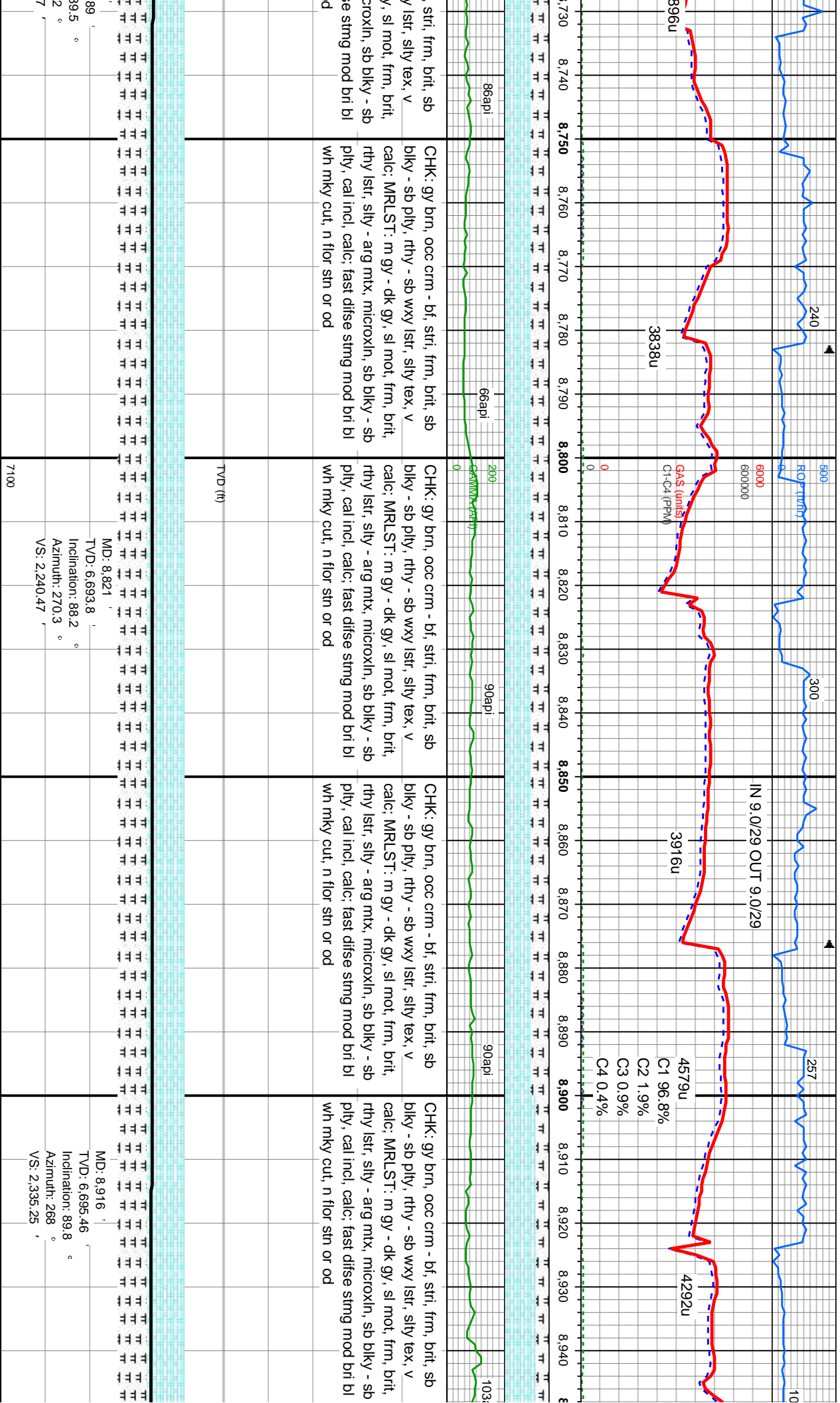




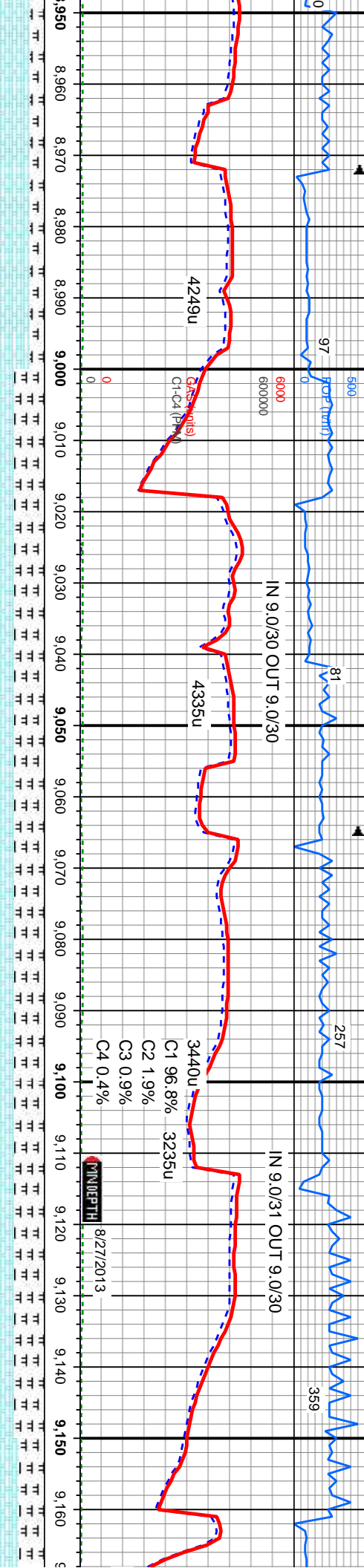
45api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb bily - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb bily - sb pily, cal incl, calc: tr yel min flor, fast difse stmg mod bri bl wh mky cut, n stn or od	48api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb bily - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb bily - sb pily, cal incl, calc: tr yel min flor, fast difse stmg mod bri bl wh mky cut, n stn or od	5900	CHK: gy brn, occ crm - bf, stri, frm, brit, sb bily - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb bily - sb pily, cal incl, calc: fast difse stmg mod bri bl wh mky cut, n flor stn or od	82api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb bily - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb bily - sb pily, cal incl, calc: fast difse stmg mod bri bl wh mky cut, n flor stn or od	81api	CHK: gy brn, occ crm - bf bily - sb pily, rthy - sb wxy calc: MRLST: m gy - dk gy rthy lstr, sily - arg mtx, mi pily, cal incl, calc: fast difse wh mky cut, n flor stn or c
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MD: 8.537 TVD: 6,687.44 Inclination: 88.9 Azimuth: 269.4 VS: 1,956.27	MD: 8.631 TVD: 6,689.9 Inclination: 88.1 Azimuth: 273.1 VS: 2,051.73	MD: 8.726 TVD: 6,691. Inclination: 88.1 Azimuth: 27 VS: 2,145.9
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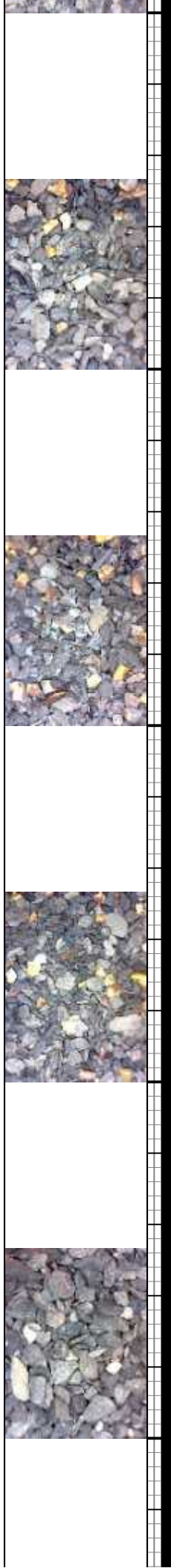
86api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pily, cal incl, calc; fast difse stmg mod bri bl wh mky cut, n flor stn or od	66api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pily, cal incl, calc; fast difse stmg mod bri bl wh mky cut, n flor stn or od	90api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pily, cal incl, calc; fast difse stmg mod bri bl wh mky cut, n flor stn or od	90api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pily, cal incl, calc; fast difse stmg mod bri bl wh mky cut, n flor stn or od	103api	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pily, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pily, cal incl, calc; fast difse stmg mod bri bl wh mky cut, n flor stn or od
89	MD: 8.821	89.5	MD: 8.916	90	MD: 8.916	90.5	MD: 8.916	91	MD: 8.916
2	TVD: 6,693.8	2	TVD: 6,693.8	2	TVD: 6,693.8	2	TVD: 6,693.8	2	TVD: 6,693.8
7	Inclination: 88.2	7	Inclination: 88.2	7	Inclination: 88.2	7	Inclination: 88.2	7	Inclination: 88.2
	Azimuth: 270.3		Azimuth: 270.3		Azimuth: 270.3		Azimuth: 270.3		Azimuth: 270.3
	VS: 2,240.47		VS: 2,240.47		VS: 2,240.47		VS: 2,240.47		VS: 2,240.47

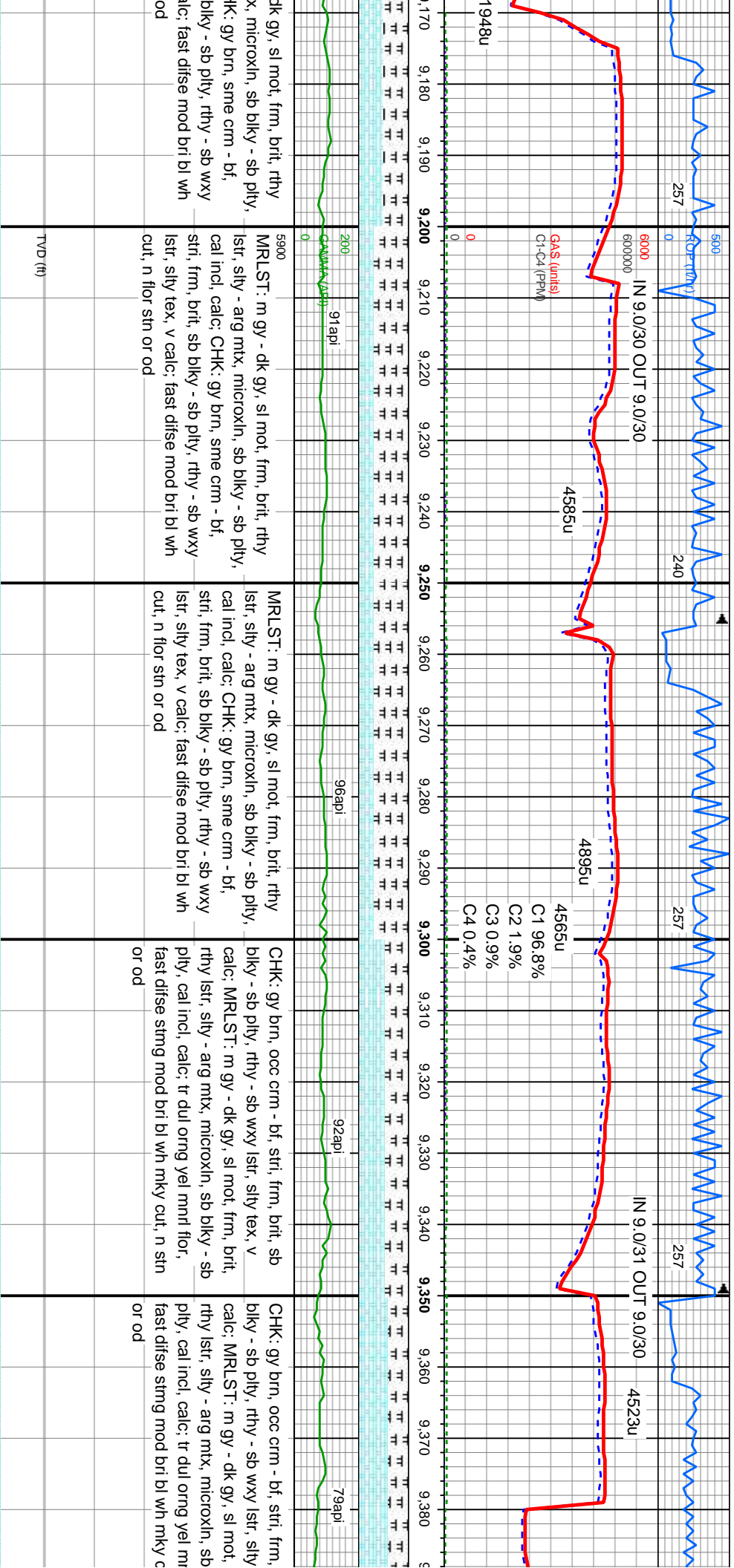


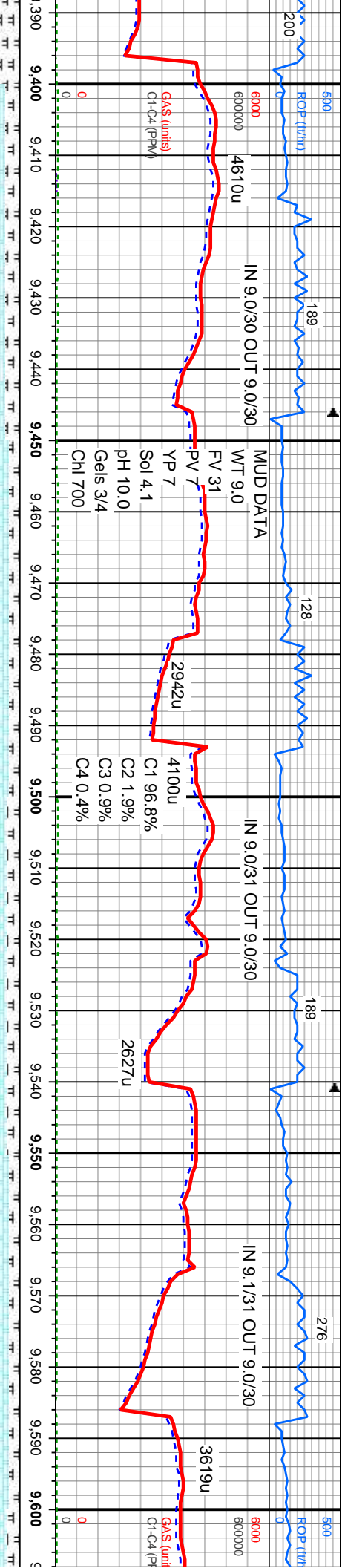
CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pty, cal incl, calc; fast difse stmg mod bri bl wh mky cut, n flor stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pty, cal incl, calc; CHK: gy brn, sme crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc; tr bent wi dissim pyr, tr dul orng yel mnrl flor, mod fast difse mod bri bl wh cut, n stn or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pty, cal incl, calc; CHK: gy brn, sme crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc; tr bent wi dissim pyr, tr dul orng yel mnrl flor, mod fast difse mod cut, n flor sin or od	MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtz, microxln, sb biky - sb pty, cal incl, calc; CHK: gy brn, sme crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc; fast difse mod bri bl wh cut, n flor sin or
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TVD (ft)			
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MD: 9.011	MD: 9.106
TVD: 6,697.45	TVD: 6,701.43
Inclination: 87.8	Inclination: 87.4
Azimuth: 267.3	Azimuth: 266.2
VS: 2,430.15	VS: 2,525.04
7100	



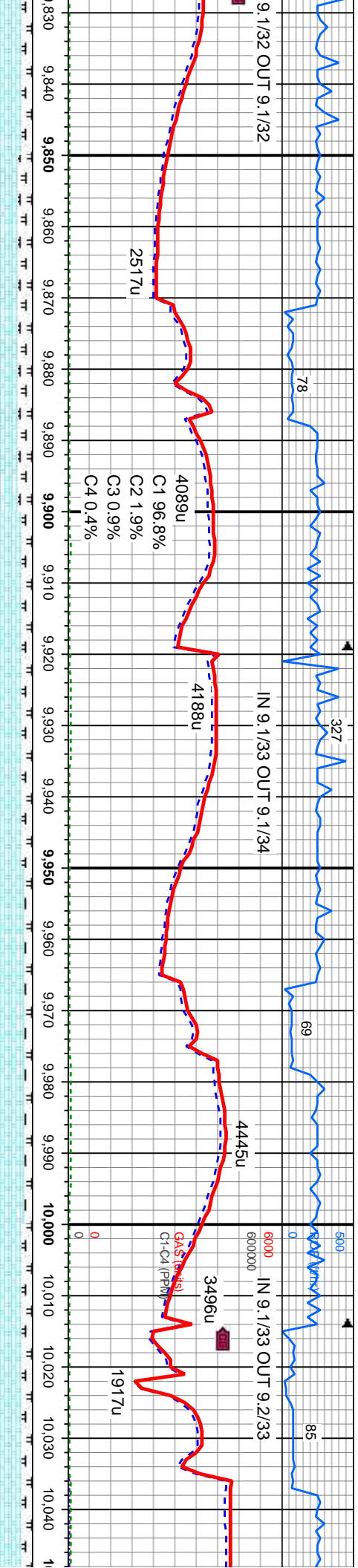




5900	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb biky - sb pty, cal incl, calc: tr dul orng yel mnrl flr, fast difse stimg mod bri bl wh mky cut, n stn or od	5900	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb biky - sb pty, cal incl, calc: tr dul gn yel mnrl flr, fast difse stimg mod bri bl wh mky cut, n stn or od	5900	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb biky - sb pty, cal incl, calc: tr dul yel mnrl flr, fast difse stimg mod bri bl wh mky cut, n stn or od	5900	CHK: gy brn, occ crm - bf, stri, frm, brit, sb biky - sb pty, rthy - sb wxy lstr, sily tex, v calc: MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, sily - arg mtx, microxln, sb biky - sb pty, cal incl, calc: tr dul yel mnrl flr, mod fast difse stimg semi bri bl wh mky cut, n stn or od
81api		86api		101api		96api	
200		200		200		200	
GA(MMA (API))		GA(MMA (API))		GA(MMA (API))		GA(MMA (API))	
0		0		0		0	
TV D (ft)		TV D (ft)		TV D (ft)		TV D (ft)	

701.26	MD: 9.485	MD: 9.580
ion: 93.4	TVD: 6.696.62	TVD: 6.695.46
ion: 268.2	Inclination: 92.2	Inclination: 89.2
ion: 268.2	Azimuth: 269.4	Azimuth: 268.4
ion: 268.2	VS: 2.903.41	VS: 2.998.21
7100		7100

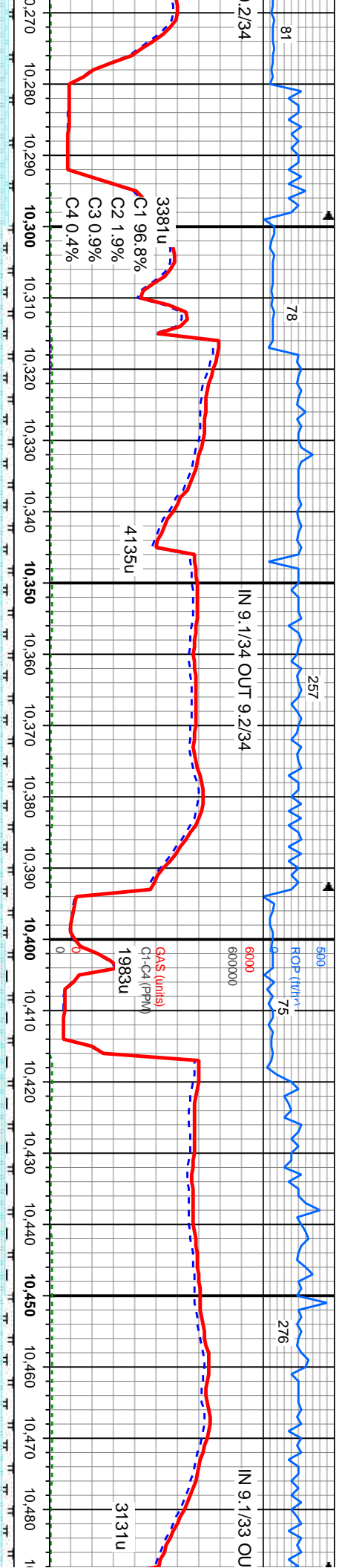




79api	94api	92api	64api	5900	73api
frm, brit, sb blkly - silty tex, v calc; mot, frm, brit, rthy n, sb blkly - sb ply, cal incl, calc; tr bent wi dissim pyr, tr dul yel - orng mntl flor, mod fast difse sl stmg semi od	CHK: crm - bf, gy brn, stri, frm, brit, sb blkly - sb ply, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxin, sb blkly - sb ply, cal incl, calc; tr bent wi dissim pyr, tr dul yel - orng mntl flor, mod fast difse sl stmg semi	CHK: gy brn, crm - bf, stri, 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 mtz, microxin, sb blkly - sb ply, cal incl, calc; tr bent wi dissim pyr, tr dul yel - orng mntl flor, mod fast difse sl stmg semi	CHK: gy brn, crm - bf, stri, 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 mtz, microxin, sb blkly - sb ply, cal incl, calc; tr bent wi dissim pyr, tr dul yel - orng mntl flor, mod fast difse sl stmg semi	CHK: gy brn, crm - bf, stri, 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 mtz, microxin, sb blkly - sb ply, cal incl, calc; tr bent wi dissim pyr, tr dul yel - orng mntl flor, mod fast difse sl stmg semi	CHK: gy brn, crm - bf, stri, 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 mtz, microxin, sb blkly - sb ply, cal incl, calc; tr bent wi dissim pyr, tr dul yel - orng mntl flor, mod fast difse sl stmg semi

MD: 9.864	MD: 9.959	MD
TVD: 6,703.46	TVD: 6,702.55	TVD
Inclination: 90.1°	Inclination: 91°	Incl
Azimuth: 271.3°	Azimuth: 271°	Azli
VS: 3,280.91	VS: 3,375.42	VS
	7100	





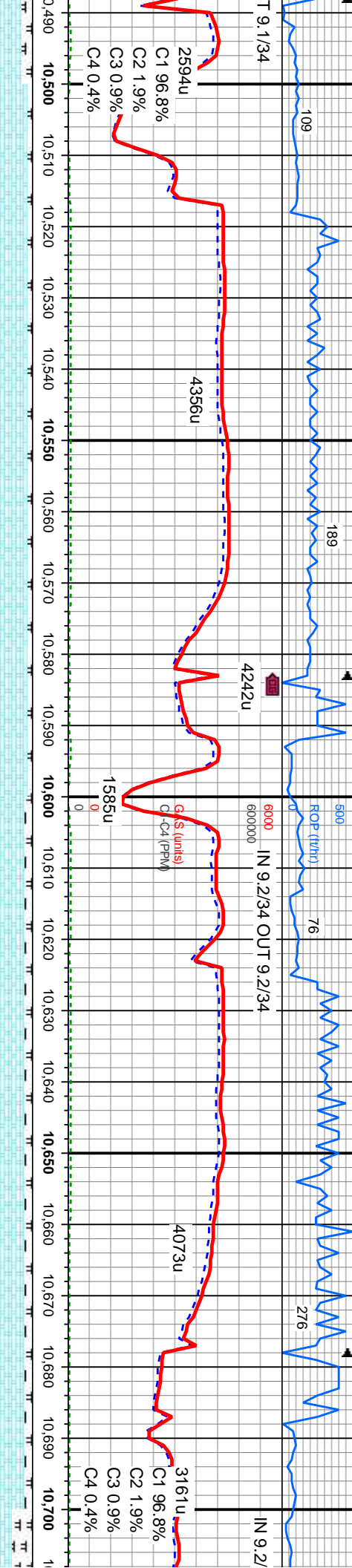
b/, sme gy brn, stri, frm, p/ty, rthy - sb wxy lstr, silty ST: m gy - dk gy, sl mot, frm, - arg mtx, microxln, sb blkly cl, calc; tr bent wi dissmin mnt flr, mod fast difse bl wh mky cut, n stn or od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb p/ty, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtx, microxln, sb blkly - sb p/ty, tr cal incl, calc; tr dul yel - orng mnt flr, mod fast difse sl stng semi bri bl wh mky cut, n stn or od	79api	71api	5600 GA5 (units) C1-C4 (PPM) 1983u	200 69api	69api
b/, sme gy brn, stri, frm, p/ty, rthy - sb wxy lstr, silty ST: m gy - dk gy, sl mot, frm, - arg mtx, microxln, sb blkly cl, calc; tr bent wi dissmin mnt flr, mod fast difse bl wh mky cut, n stn or od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb p/ty, 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 p/ty, tr cal incl, calc; tr dul yel - orng mnt flr, mod fast difse sl stng semi bri bl wh mky cut, n stn or od	79api	71api	5600 GA5 (units) C1-C4 (PPM) 1983u	200 69api	69api

b/, sme gy brn, stri, frm, p/ty, rthy - sb wxy lstr, silty ST: m gy - dk gy, sl mot, frm, - arg mtx, microxln, sb blkly cl, calc; tr bent wi dissmin mnt flr, mod fast difse bl wh mky cut, n stn or od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb p/ty, 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 p/ty, tr cal incl, calc; tr dul yel - orng mnt flr, mod fast difse sl stng semi bri bl wh mky cut, n stn or od	79api	71api	5600 GA5 (units) C1-C4 (PPM) 1983u	200 69api	69api
b/, sme gy brn, stri, frm, p/ty, rthy - sb wxy lstr, silty ST: m gy - dk gy, sl mot, frm, - arg mtx, microxln, sb blkly cl, calc; tr bent wi dissmin mnt flr, mod fast difse bl wh mky cut, n stn or od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb p/ty, 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 p/ty, tr cal incl, calc; tr dul yel - orng mnt flr, mod fast difse sl stng semi bri bl wh mky cut, n stn or od	79api	71api	5600 GA5 (units) C1-C4 (PPM) 1983u	200 69api	69api

MD: 10.338
TVD: 6,694.45
Inclination: 89
Azimuth: 269.2
VS: 3,753.22

MD: 10.433
TVD: 6,694.86
Inclination: 90.5
Azimuth: 269.4
VS: 3,847.99

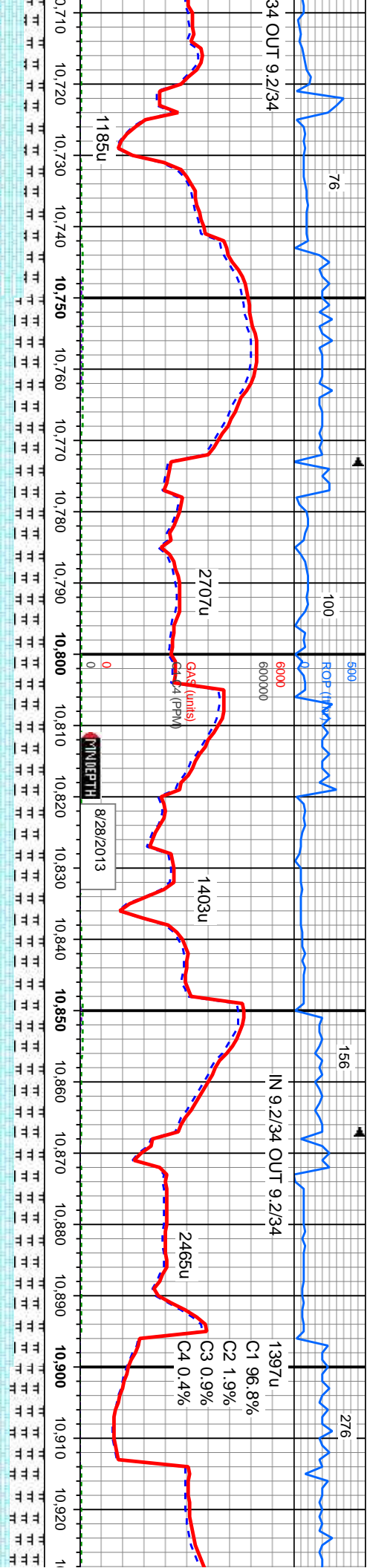




str, silty mot, frm, 1, sb blkly od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb plty, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtv, microxln, sb blkly - sb plty, tr cal incl, calc; fast difse sl stmg semi bri bl wh mky cut, n flor stn or od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb plty, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtv, microxln, sb blkly - sb plty, tr cal incl, calc; fast difse sl stmg semi bri bl wh mky cut, n flor stn or od	CHK: pred crm - bf, sme gy brn, stri, frm, brit, sb blkly - sb plty, rthy - sb wxy lstr, silty tex, v calc; MRLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtv, microxln, sb blkly - sb plty, tr cal incl, calc; fast difse sl stmg semi bri bl wh mky cut, n flor stn or od	CHK: f brit, sb tex, v c
77api	88api	92api	123api	

MD: 10.527 TVD: 6,693.71 Inclination: 90.9 ° Azimuth: 269.2 ° VS: 3,941.77	MD: 10.622 TVD: 6,691.72 Inclination: 91.5 ° Azimuth: 269.6 ° VS: 4,036.52
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118api	107api	111api	129api	141api
MRSLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blk y - sb plty, v calc; CHK: pred mot gy brn, sme crm - bf, mot - str, pred mod frm, brit, sb blk y - sb plty, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od	MRSLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blk y - sb plty, v calc; CHK: pred mot gy brn, sme crm - bf, mot - str, pred mod frm, brit, sb blk y - sb plty, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od	MRSLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blk y - sb plty, v calc; CHK: pred mot gy brn, sme crm - bf, mot - str, pred mod frm, brit, sb blk y - sb plty, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od	MRSLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blk y - sb plty, v calc; CHK: pred mot gy brn, sme crm - bf, mot - str, pred mod frm, brit, sb blk y - sb plty, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od	MRSLST: m gy - dk gy, sl mot, frm, brit, rthy lstr, silty - arg mtz, microxln, sb blk y - sb plty, v calc; CHK: pred mot gy brn, sme crm - bf, mot - str, pred mod frm, brit, sb blk y - sb plty, rthy - sb wxy lstr, silty tex, v calc; fast difse, stmg, bri bl wh cut, n flor stn or od

MD: 10.717	MD: 10.812	MD: 10.906
TVD: 6.689.07	TVD: 6.688.07	TVD: 6.691.6
Inclination: 91.7	Inclination: 89.5	Inclination: 86.2
Azimuth: 269.4	Azimuth: 268.4	Azimuth: 268
VS: 4.131.24	VS: 4.226.05	VS: 4.319.86



