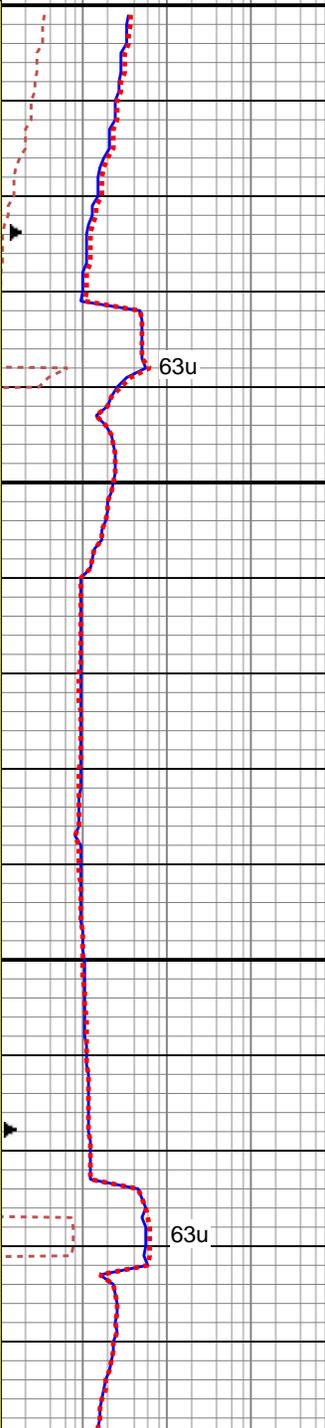
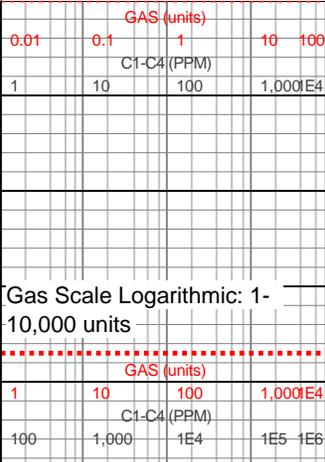
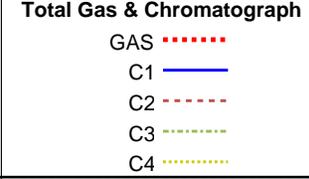


Extraction O&G
Diamond Valley East #12
 Weld County, Colorado
 Spud Date: 10-29-14
 Surface Casing @ 772'
 2-man Logging / Geosteering
 Began: 11-1-14

100 units = 1% Methane
 Depths Correspond to
 Driller's Pipe Tally

ROP (min/ft.) 2
 GAMMA (units) 140
 WOB: 38klbs
 RPM: 66
 SPM: 180
 GPM: 631
 MD: 5,051'
 TVD: 4,931.53'
 Inclination: 12.72 °
 Azimuth: 356.18 °
 VS: 172.82'

MD: 5,147'
 TVD: 5,025.13'
 Inclination: 12.95 °
 Azimuth: 358.69 °

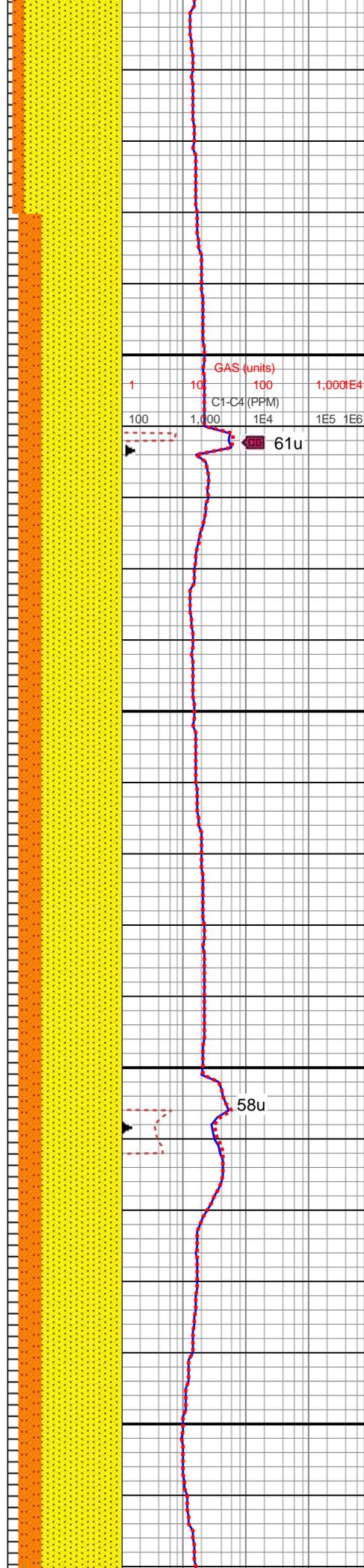
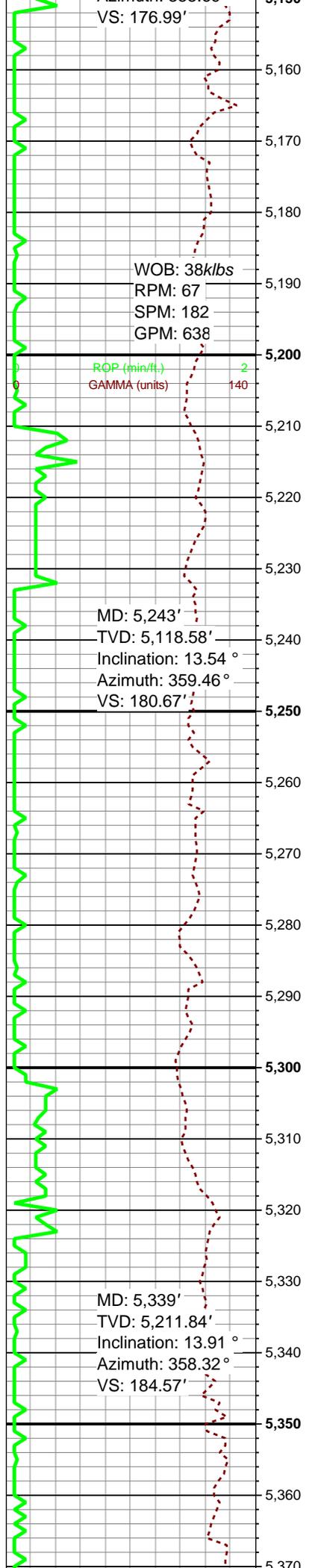


DP @ 5,000'

5000-5060 SLTY SS:
 pred lt- med gy, sme lt tan, occ crm- trnsl wh, pred u f- l med grn, sme vf grnd, frm- hd, cons clus, pred sb ang- sb rd, mod srt, arg- slty, w cmt, sil- cal cmt, calc, v sl pyrc, abnt lith frags, tr glauc

5060-5120 SLTY SS:
 pred lt- med gy, sme lt tan, occ crm- trnsl wh, pred u f- l med grn, sme vf grnd, frm- hd, cons clus, pred sb ang- sb rd, mod srt, arg- slty, w cmt, sil- cal cmt, calc, v sl pyrc, abnt lith frags, tr glauc





5120-5180 SLTY SS:
pred lt- med gy, sme lt
tan, occ crm- trnsl wh,
pred u f- l med grn, sme
vf grnd, frm- hd, cons
clus, pred sb ang- sb rd,
mod srt, arg- slty, w cmtd,
sil- cal cmt, calc, v sl pyrc,
abnt lith frags, tr glauc



5180-5240 SLTY SS:
pred med gy, occ offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod
srt, arg- slty, w cmtd, sil-
cal cmt, calc, v sl pyrc,
abnt lith frags, rr glauc

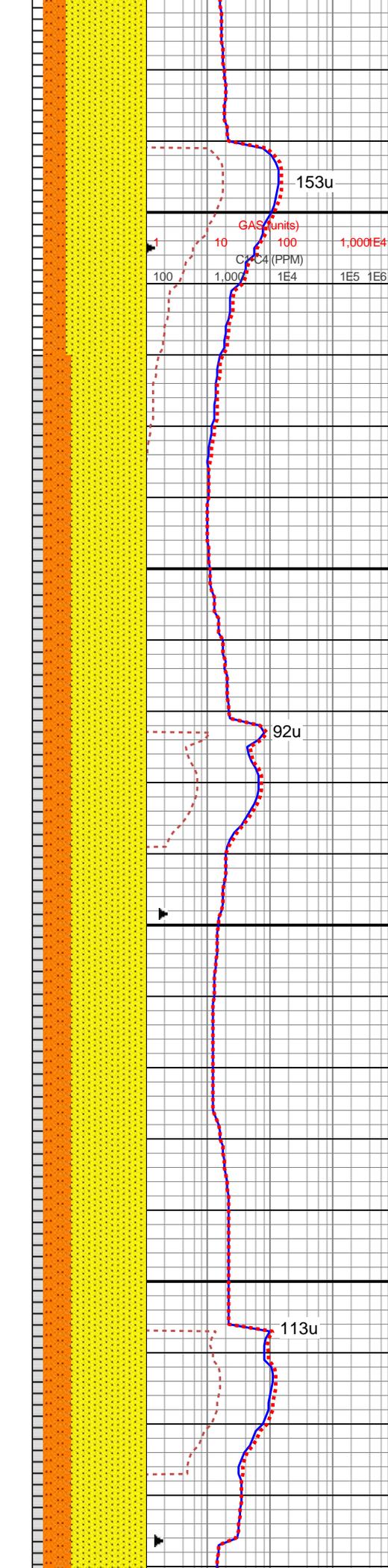
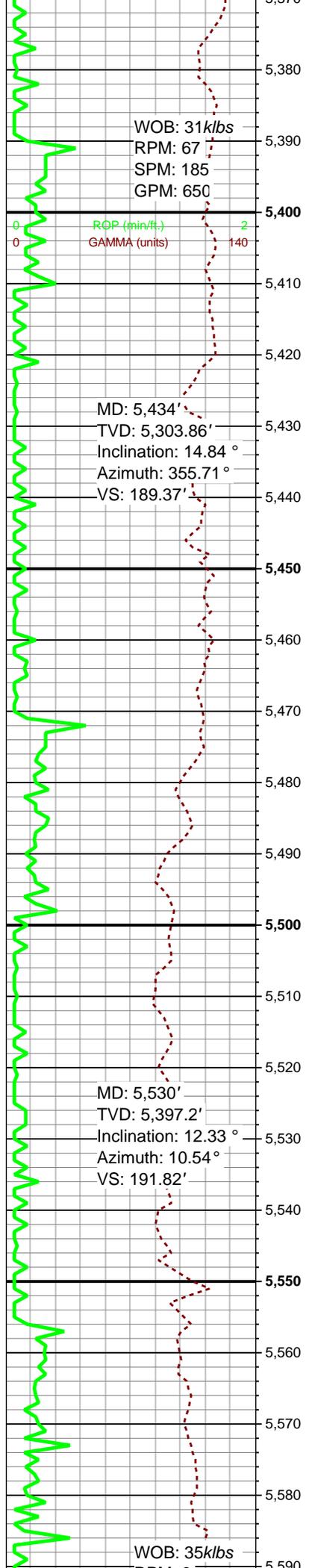


5240-5300 SLTY SS:
pred med gy, occ offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod
srt, arg- slty, w cmtd, sil-
cal cmt, calc, v sl pyrc,
abnt lith frags, rr glauc



5300-5360 SLTY SS:
pred med gy, occ offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod
srt, arg- slty, w cmtd, sil-
cal cmt, calc, v sl pyrc,
abnt lith frags, rr glauc



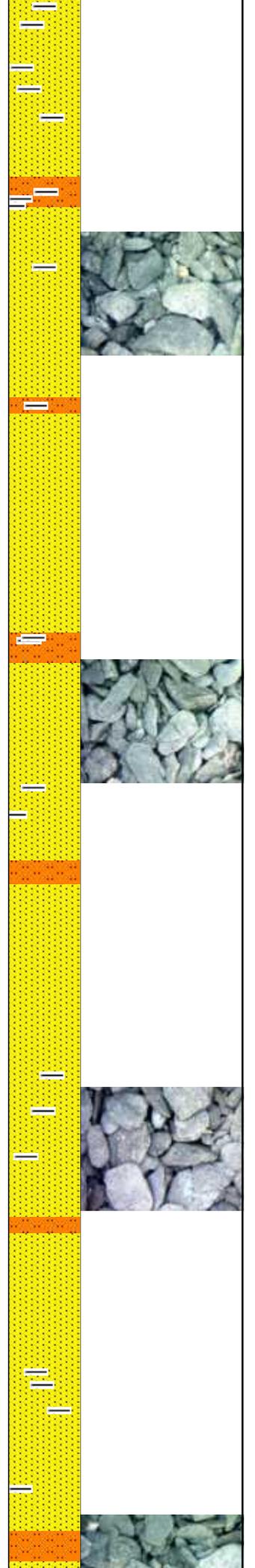


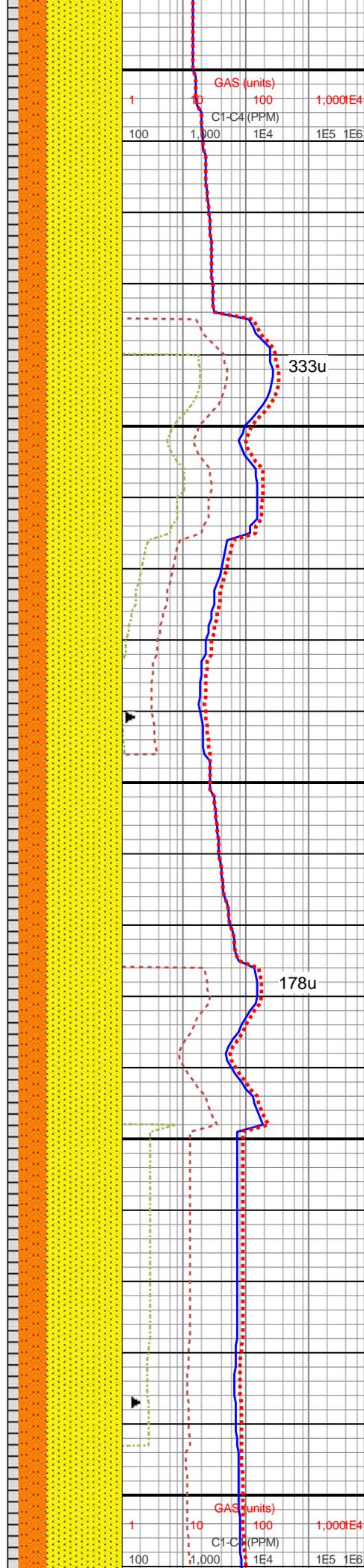
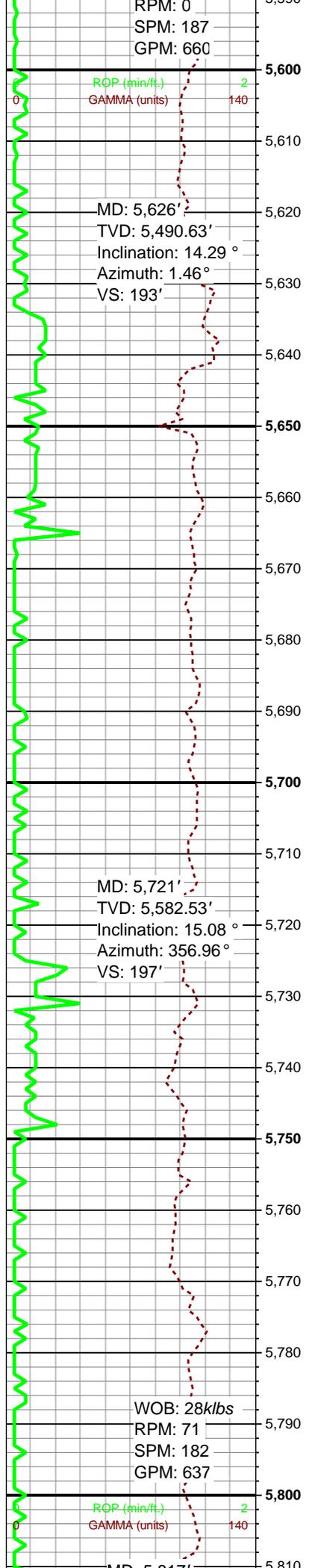
5360-5420 SLTY SS:
pred med gy, occ offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod
srt, arg- slty, w cmtd, sil-
cal cmt, calc, v sl pyrc,
abnt lith frags, rr glauc

5420-5480 SLTY SS:
pred med gy, sme offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod
srt, arg- slty, w cmtd, sil-
cal cmt, calc, v sl pyrc,
abnt lith frags, rr glauc, rr
bent

5480-5540 SLTY SS:
pred med gy, sme offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod
srt, arg- slty, w cmtd, sil-
cal cmt, calc, v sl pyrc,
abnt lith frags, rr glauc

5540-5600 SLTY SS:
pred med gy, sme offwht-
trnsl clus, pred u f grnd,
ip med grn, sme vf grnd,
frm- hd, pred cons clus,
pred sb ang- sb rd, mod





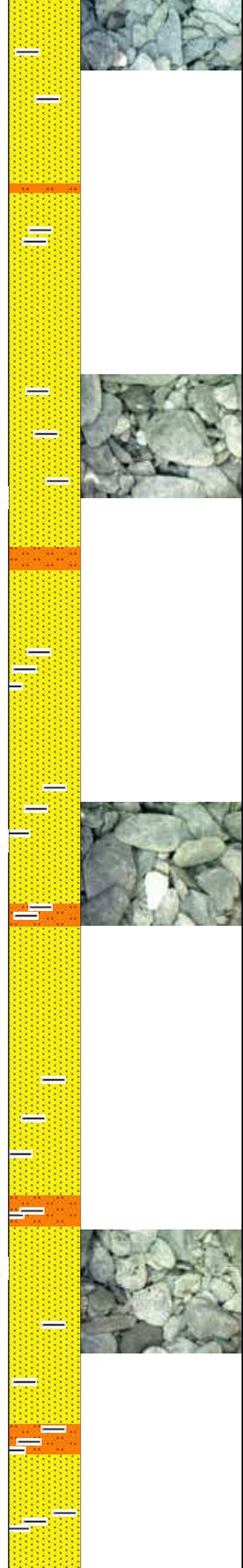
srt, arg- slty, w cmtd, sil- cal cmt, calc, v sl pyrc, abnt lith frags, rr glauc

5600-5660 SLTY SS:
pred med gy, tr offwht- trnsl clus, pred sub blkly, ip plty, pred u f grnd, ip med grn, sme vf grnd, frm- hd, pred cons clus, pred sb ang- sb rd grs, mod srt, arg- slty, w cmtd, sil- cal cmt, tr calc, v sl pyrc, abnt lith frags, rr bent

5660-5720 SLTY SS:
pred med gy, tr offwht- trnsl clus, pred sub blkly, ip plty, pred u f grnd, ip med grn, sme vf grnd, frm- hd, pred cons clus, pred sb ang- sb rd grs, mod srt, arg- slty, w cmtd, sil- cal cmt, tr calc, v sl pyrc, abnt lith frags, rr bent

5720-5780 SLTY SS:
pred med gy, tr offwht- trnsl clus, pred sub blkly, ip plty, pred u f grnd, ip med grn, sme vf grnd, frm- hd, pred cons clus, pred sb ang- sb rd grs, mod srt, arg- slty, w cmtd, sil- cal cmt, tr calc, v sl pyrc, abnt lith frags, rr bent

5780-5840 SLTY SS:
pred med gy, tr offwht-

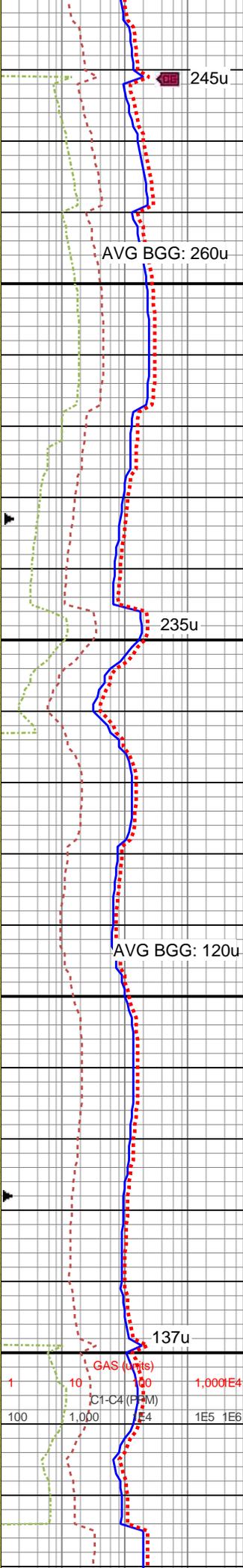
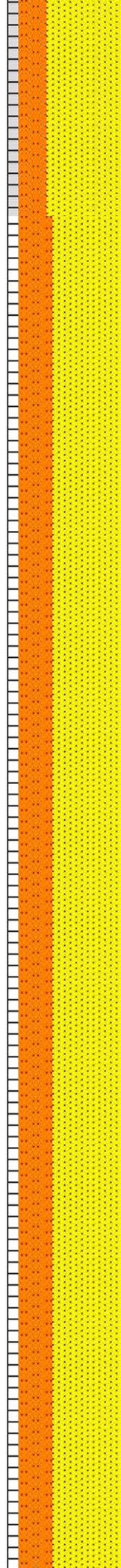
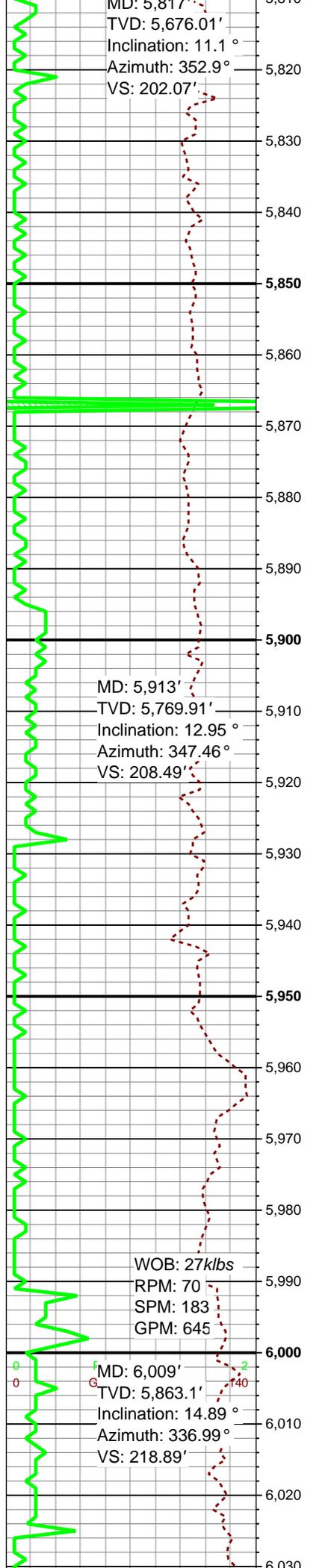


MD: 5,817'
TVD: 5,676.01'
Inclination: 11.1°
Azimuth: 352.9°
VS: 202.07'

MD: 5,913'
TVD: 5,769.91'
Inclination: 12.95°
Azimuth: 347.46°
VS: 208.49'

WOB: 27klbs
RPM: 70
SPM: 183
GPM: 645

MD: 6,009'
TVD: 5,863.1'
Inclination: 14.89°
Azimuth: 336.99°
VS: 218.89'



pred med gy, trnsl clus, pred sub blkly, ip plty, pred u f grnd, ip med grn, sme vf grnd, frm- hd, pred cons clus, pred sb ang- sb rd grs, mod srt, arg- slty, w cmtd, sil- cal cmt, tr calc, v sl pyrc, abnt lith frags, rr bent

245u

AVG BGG: 260u

5840-5900 SLTY SS: pred gy- med gy, sme sl brn, sme offwht- trnsl cls, pred frm- hd, cons thru, sb blkly- sb plty, pred f gr, sme u f grnd, occ l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

235u

5900-5960 SLTY SS: pred gy- med gy, sme sl brn, sme offwht- trnsl cls, pred frm- hd, cons thru, sb blkly- sb plty, pred f gr, sme u f grnd, occ l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

120u

5960-6020 SLTY SS: pred gy- med gy, sme sl brn, sme offwht- trnsl cls, pred frm- hd, cons thru, sb blkly- sb plty, pred f gr, sme u f grnd, occ l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

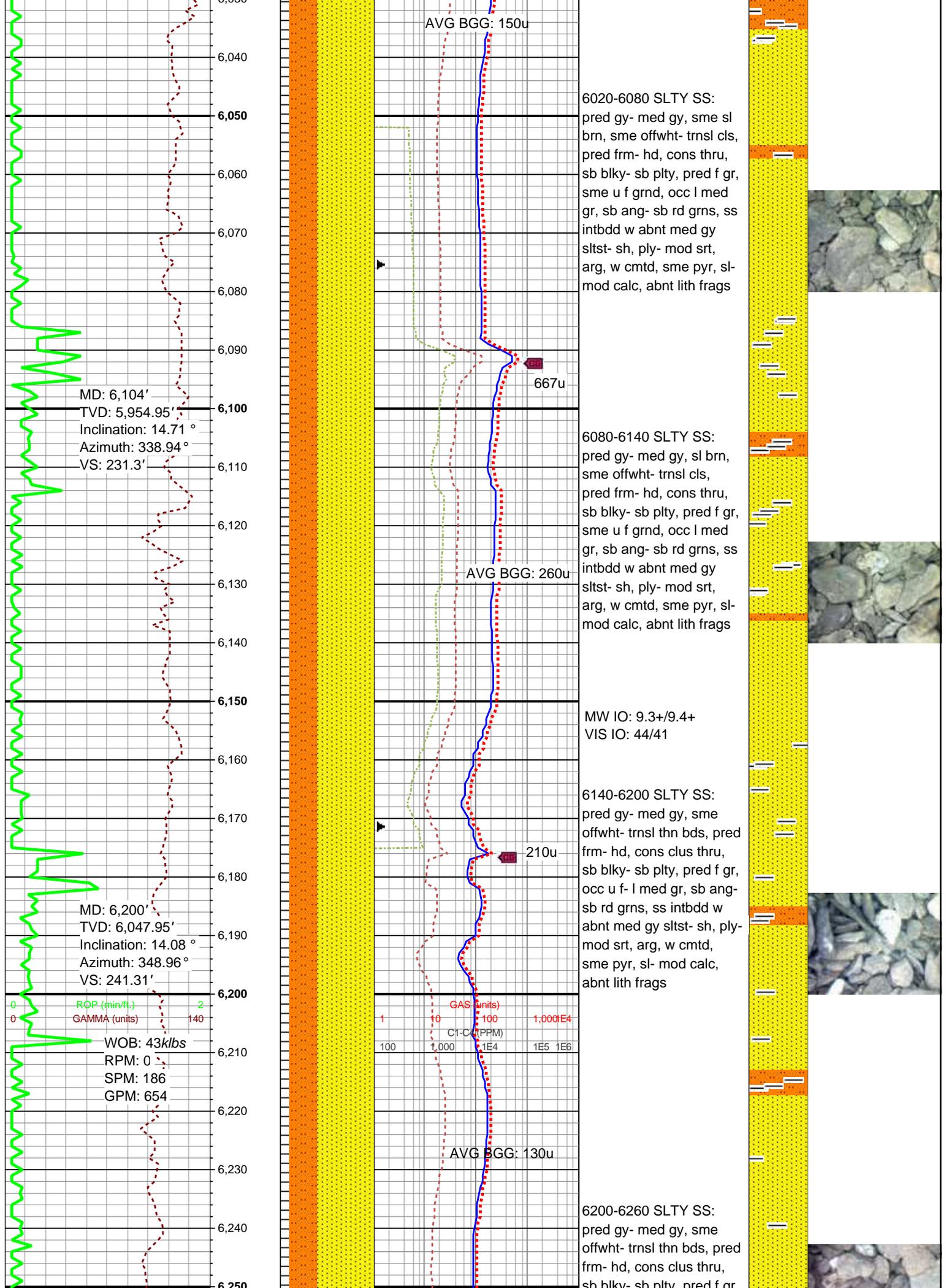
137u

GAS (psia)

C1-C4 (FPM)

100 1,000 10,000 100,000 1,000E4 1E5 1E6





AVG BGG: 150u

6020-6080 SLTY SS:
 pred gy- med gy, sme sl
 brn, sme offwht- trnsl cls,
 pred frm- hd, cons thru,
 sb blk- sb plty, pred f gr,
 sme u f grnd, occ l med
 gr, sb ang- sb rd grns, ss
 intbdd w abnt med gy
 sltst- sh, ply- mod srt,
 arg, w cmtd, sme pyr, sl-
 mod calc, abnt lith frags



MD: 6,104'
 TVD: 5,954.95'
 Inclination: 14.71 °
 Azimuth: 338.94 °
 VS: 231.3'

667u

6080-6140 SLTY SS:
 pred gy- med gy, sl brn,
 sme offwht- trnsl cls,
 pred frm- hd, cons thru,
 sb blk- sb plty, pred f gr,
 sme u f grnd, occ l med
 gr, sb ang- sb rd grns, ss
 intbdd w abnt med gy
 sltst- sh, ply- mod srt,
 arg, w cmtd, sme pyr, sl-
 mod calc, abnt lith frags



AVG BGG: 260u

MW IO: 9.3+/9.4+
 VIS IO: 44/41

MD: 6,200'
 TVD: 6,047.95'
 Inclination: 14.08 °
 Azimuth: 348.96 °
 VS: 241.31'

210u

6140-6200 SLTY SS:
 pred gy- med gy, sme
 offwht- trnsl thn bds, pred
 frm- hd, cons clus thru,
 sb blk- sb plty, pred f gr,
 occ u f- l med gr, sb ang-
 sb rd grns, ss intbdd w
 abnt med gy sltst- sh, ply-
 mod srt, arg, w cmtd,
 sme pyr, sl- mod calc,
 abnt lith frags



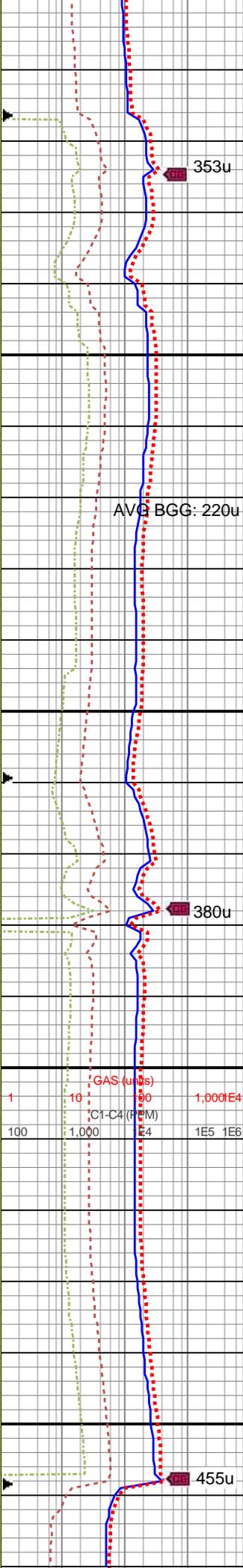
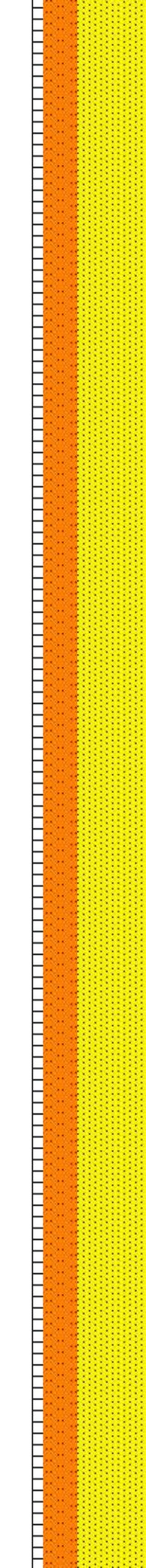
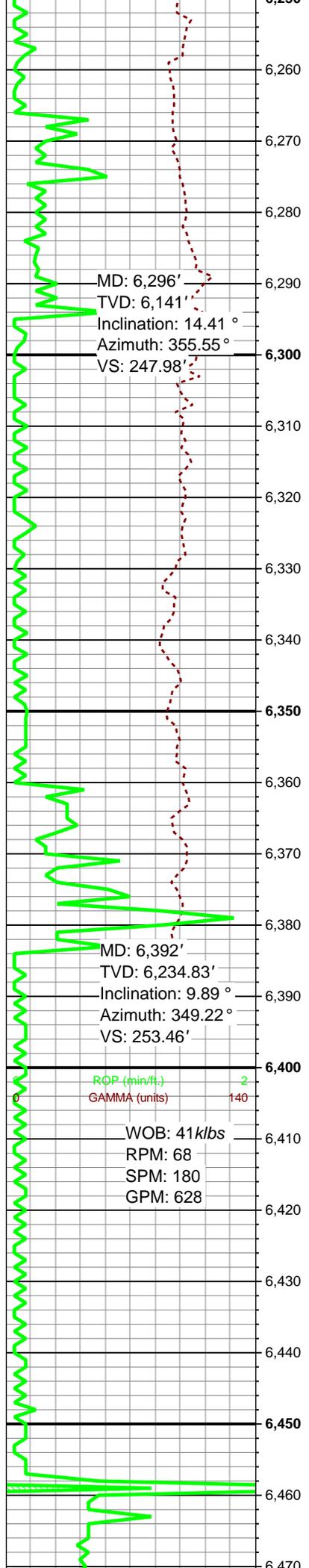
AVG BGG: 130u

6200-6260 SLTY SS:
 pred gy- med gy, sme
 offwht- trnsl thn bds, pred
 frm- hd, cons clus thru,
 sb blk- sb plty, pred f gr



ROP (min/ft.) 2
 GAMMA (units) 140
 WOB: 43klbs
 RPM: 0
 SPM: 186
 GPM: 654

GAS (units) 1,000E4
 C1-C4 (PPM) 1E4 1E5 1E6



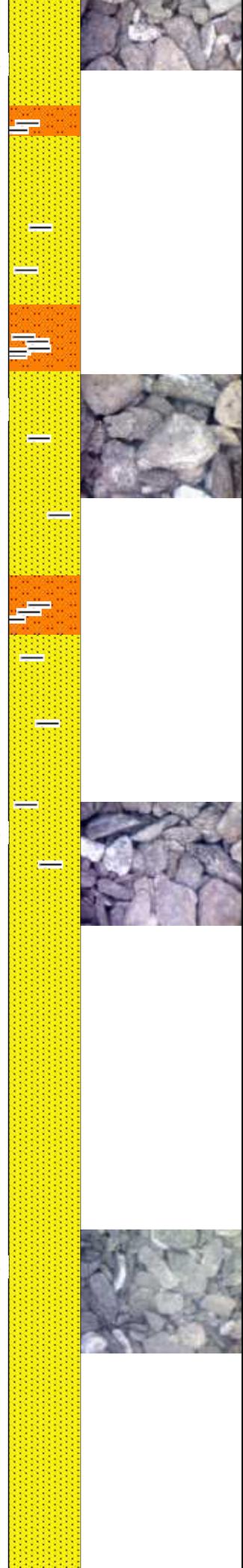
occ u f- l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

6260-6320 SLTY SS: pred gy- med gy, sme offwht- trnsl thn bds, pred frm- hd, cons clus thru, sb blk- sb plty, pred f gr, occ u f- l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

6320-6380 SLTY SS: pred gy- med gy, sme offwht- trnsl thn bds, pred frm- hd, cons clus thru, sb blk- sb plty, pred f gr, occ u f- l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

6380-6440 SLTY SS: pred gy- med gy, sme offwht- trnsl thn bds, pred frm- hd, cons clus thru, sb blk- sb plty, pred f gr, occ u f- l med gr, sb ang- sb rd grns, ss intbdd w abnt med gy sltst- sh, ply- mod srt, arg, w cmtd, sme pyr, sl- mod calc, abnt lith frags

MW IO: 9.8+
VIS IO: 45/48



Log Continued in
Horizontal Format

6,480

6,490

6,500

6,510

6,520

6,530

6,540

6,550

6,560

6,570

6,580

6,590

6,600

6,610

6,620

6,630

6,640

6,650

6,660

6,670

6,680

6,690

ROP (min/ft.) 2
GAMMA (units) 140

GAS (units) 1 10 100 1,000E4
C1-C4 (PPM) 100 1,000 1E4 1E5 1E6



6,700

6,710

6,720

6,730

6,740

6,750

6,760

6,770

6,780

6,790

6,800

6,810

6,820

6,830

6,840

6,850

6,860

6,870

6,880

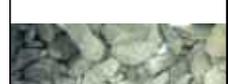
6,890

6,900

6,910

ROP (min/ft.) 2
GAMMA (units) 140

GAS (units) 1 10 100 1,000E4
C1-C4 (PPM) 100 1,000 1E4 1E5 1E6



6,920

6,930

6,940

6,950

6,960

6,970

6,980

6,990

7,000

7,010

7,020

7,030

7,040

7,050

7,060

7,070

7,080

7,090

7,100

7,110

7,120

7,130

ROP (min/ft.) 2
GAMMA (units) 140

GAS (units) 1 10 100 1,000E4
C1-C4 (PPM) 100 1,000 1E4 1E5 1E6



7,140

7,150

7,160

7,170

7,180

7,190

7,200

7,210

7,220

7,230

7,240

7,250

7,260

7,270

7,280

7,290

7,300

7,310

7,320

7,330

7,340

7,350

ROP (min/ft.) 2
GAMMA (units) 140

GAS (units) 1 10 100 1,000E4
C1-C4 (PPM) 100 1,000 1E4 1E5 1E6



7,350
7,360
7,370
7,380
7,390
7,400
7,410
7,420
7,430
7,440
7,450
7,460
7,470
7,480
7,490

ROP (min/ft.) 2
GAMMA (units) 140

GAS (units) 1 10 100 1,000E4
C1-C4 (PPM) 100 1,000 1E4 1E5 1E6

