



FORMATION EVALUATION LOG



WELL : TREFOIL-2

FROM (m): 2510

TO (m): 3250

SCALE: 1/ 500

Country : AUSTRALIA
Region : TASMANIA
Field : TREFOIL
Permit : T/18P
Well Type : APPRAISAL
Rig Name : KAN TAN 4

POSITION
Latitude : 39 53' 07.93" S
Longitude : 145 22' 14.62" E
X (m) : 360690.389
Y (m) : 5583676.588
RT-Sealevel (m MSL) : 26
RT-Seabed (m) : 95

CASING SHOE SIZE / DEPTH
762mm (30") at (m MDRT) : 153.00
340mm (13 3/8") at (m MDRT) : 930.00
245mm (9 5/8") at (m MDRT) : 2520.00

Spud Date : 06-10-2009
Total Depth Date :
Total Depth (m MDRT) :
Total Depth (m TVSS) :
Status :

ABBREVIATIONS

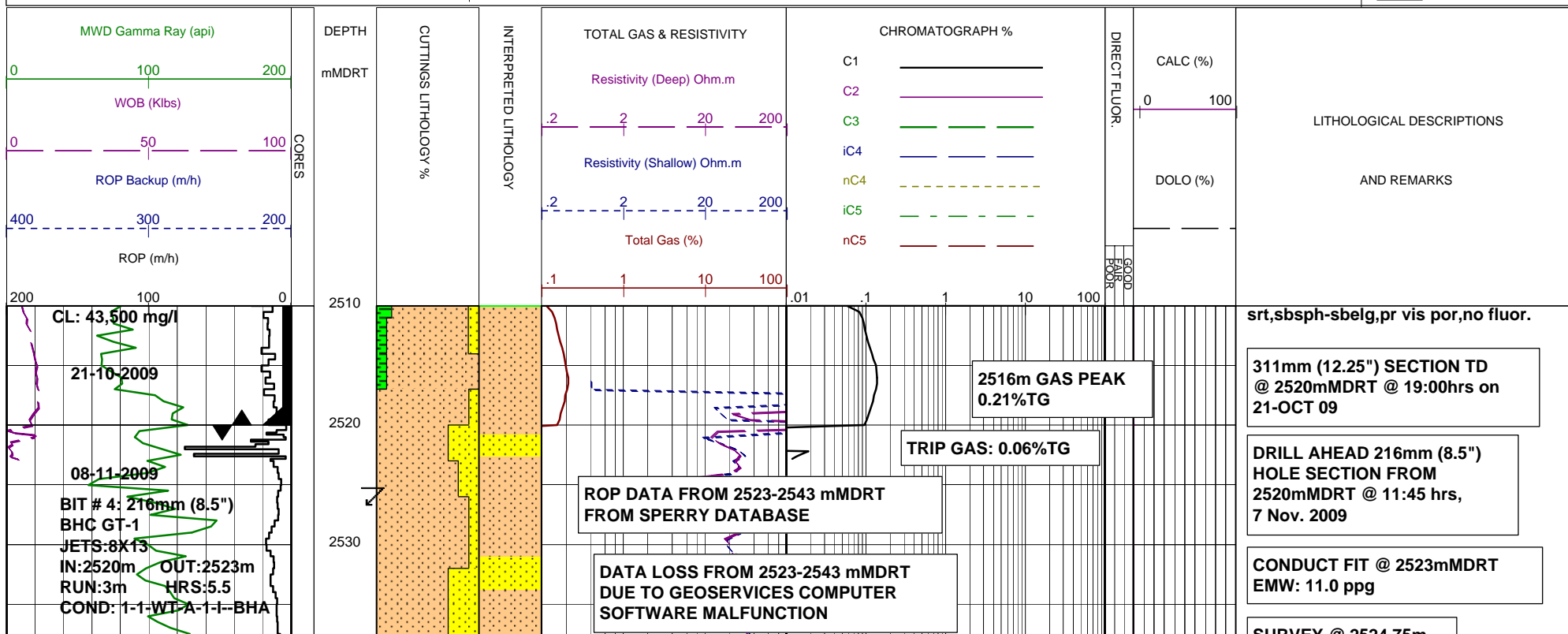
MW MUD WEIGHT NB NEW BIT
FV FUNNEL VISCOSITY RR RERUN BIT
PV PLASTIC VISCOSITY CB CORE BIT
YP YIELD POINT WOB WEIGHT ON BIT
FC FILTER CAKE RPM REVS PER MINUTE
SOL SOLIDS FLC FLOW CHECK
CR CIRCULATE RETURNS WL FILTRATE
SD SAND - % PR POOR RETURNS
S SALINITY - PPM NR NO RETURNS
RM MUD RESISTIVITY BG BACKGROUND GAS
RMF MUD FILTRATE TG TRIP GAS
C CARBIDE TEST STG SHORT TRIP GAS
LAT LOGGED AFTER TRIP CG CONNECTION GAS
DS DEVIATION SURVEY SG SWAB GAS
SVG SURVEY GAS

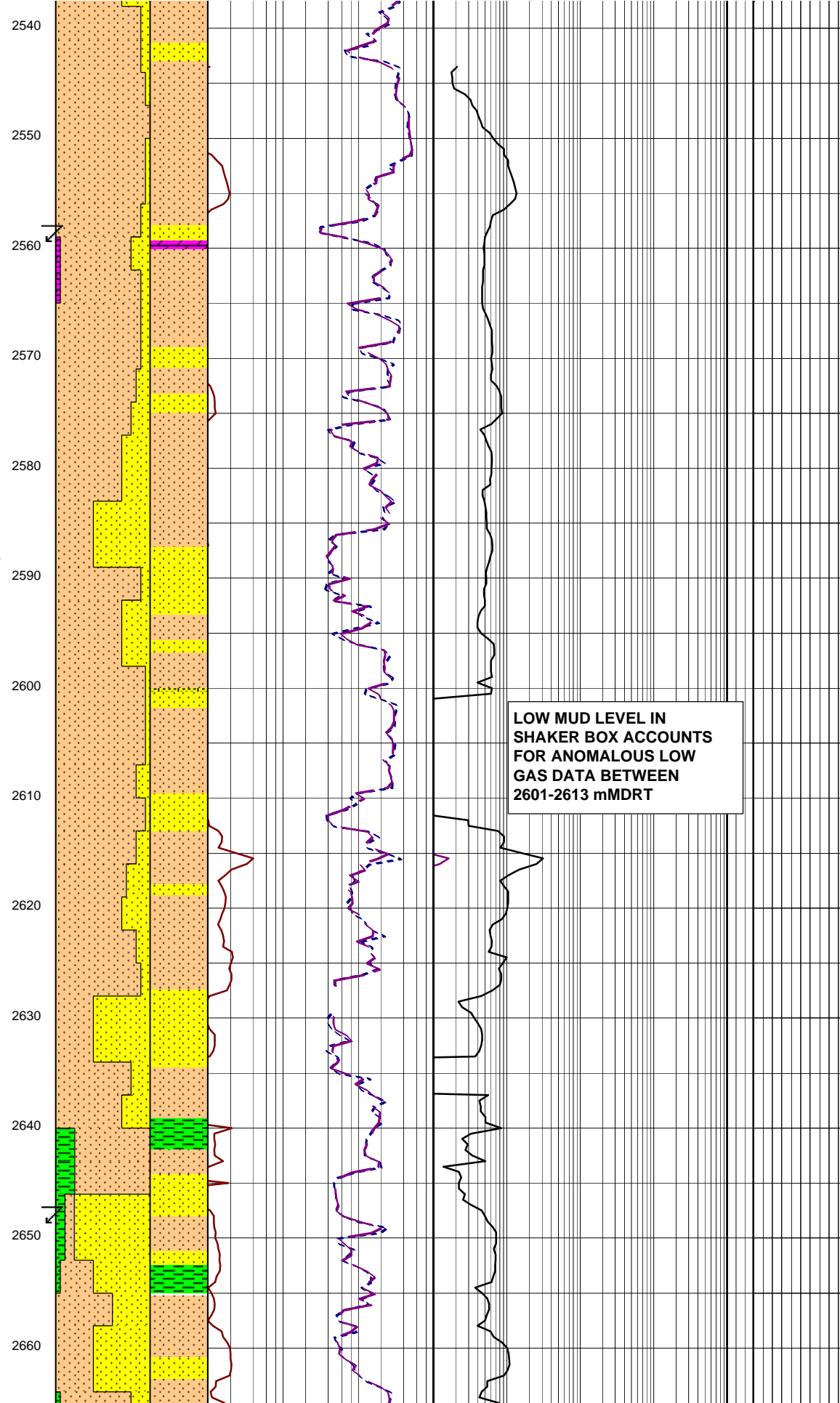
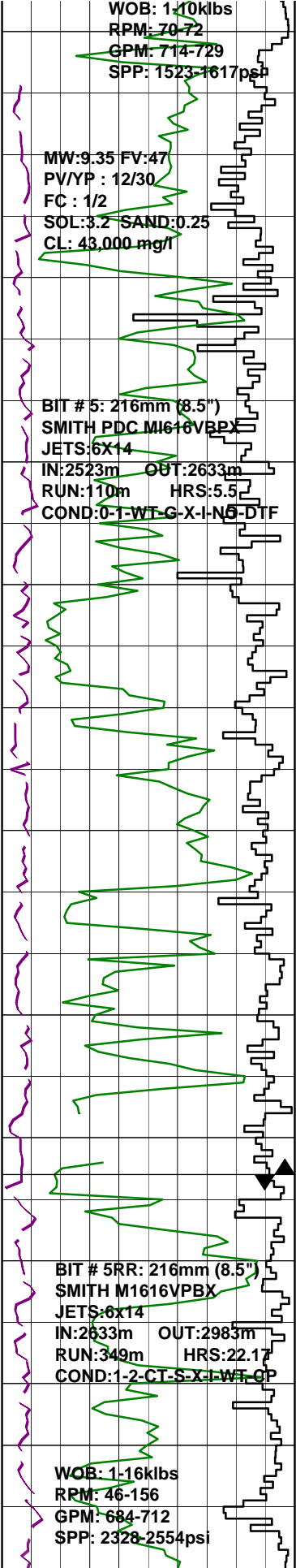
LITHOLOGY LEGEND

	Dolomite		Claystone		Argil Siltstone		Calcareous
	Calcurudite		Siltstone		Sandy Siltstone		Dolomitic
	Calcarenite		Sandstone		Calcareous Siltstone		Fossils
	Calcsiltite		Coal		Argil Sandstone		Foraminiferae
	Calclutite		Intrusive Volcanics		Calcareous Sandstone		Carbonaceous
	Sandy Claystone		Volcaniclastics		Dolomitic Sandstone		Chert
	Silty Claystone		Tuff		Silty Sandstone		Pyrite
	Calcareous Claystone		Cement				Glauconite
	Argil Calclutite						Mica

ENGINEERING

	Test
	FIT or LOT
	Mud loss
	Mud gain
	Deviation survey
	Core
	Shoe
	Calcmetry





SURVEY @ 2524.75m
Incl 1.00° AZI: 97.22°
TVD: 2524.47m

SANDSTONE: yelsh gry, v lt gry,
olv gry, 20% vf, 50% f, 30% med
grs, tr crs grs, clr qtz grs, pr-
mod srt, sbang-sbrnd, sbsph-sbelg,
10% sil cmt, 10% wh cly mtx, tr
lithic frags, tr carb mat, pr inf
vis por, no fluor.

SURVEY @ 2557.55m
Incl 1.13° AZI: 91.00°
TVD: 2557.30m

DOLOMITE: brnsh gry, frm-mod hd,
sbbiky w/- conch frac i/p.

SILTSTONE: pred brnsh blk, tr
olv gry & brnsh gry, sft-frm, blk-
sbbiky, tr carb spks & lam, tr
micmic & lam mica flks.

SANDSTONE: v lt gry, olv gry,
tr yelsh gry, tr lt olv gry, 20%
vf, 50% f, 30% med grs, clr qtz
grs, lse-frm, pr-mod srt, sbrnd-
ang, sbsph-sbelg, 10% wh cly mat,
tr lithic frags, tr carb mat, tr
pyr, pr inf vis por, no fluor.

SURVEY @ 2588.22m
Incl 1.30° AZI: 90.35°
TVD: 2587.90m

LOW MUD LEVEL IN
SHAKER BOX ACCOUNTS
FOR ANOMALOUS LOW
GAS DATA BETWEEN
2601-2613 mMDRT

SANDSTONE: v lt gry-lt gry-
clr-opq, olv gry, 5% vf, 30% f,
40% med, 20% crs, 5% v crs grs,
lse-frm, pr-mod srt, sbrnd-ang,
sbsph-sbelg, tr sil cmt, tr pyr
cmt, tr calcite cmt, incr in lse,
clr v crs qtz grs, tr lithic
frags, tr carb mat, tr glauc, tr nod
pyr, gd inf por, no fluor.

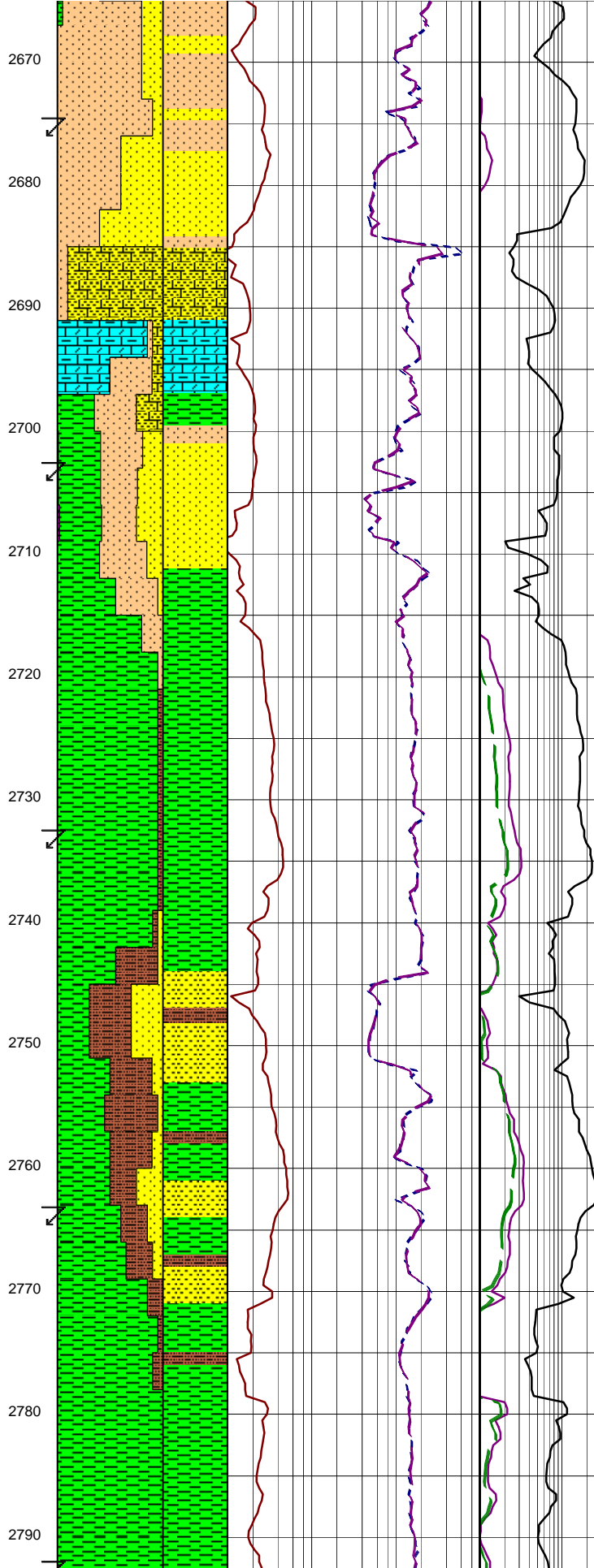
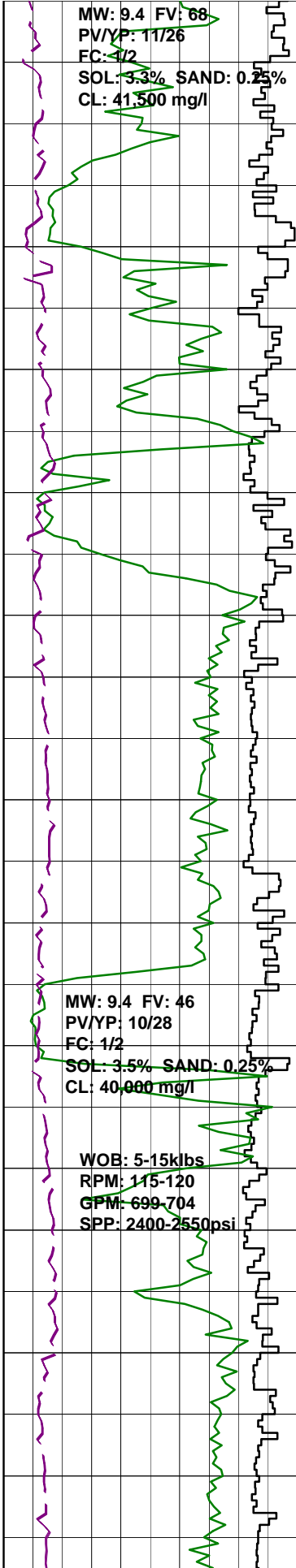
SILTSTONE: brnsh gry, brnsh blk,
olv blk, olv gry, sft-frm, blk-
sbfiss, tr carb mat, tr lithic frags,
tr coal, micr.

CARBIDE LAG CHECK @ 2630m
THEOR STKS: 4148
ACTUAL STKS: 4299
INGAUGE HOLE.

SANDSTONE: v lt gry-lt gry-
clr-opq, tr yelsh gry, 5% vf, 35% f, 30%
med, 30% crs grs, lse-frm, pr-mod
srt, sbrnd-sbang, sbsph-sph, tr sil
cmt, tr calcite cmt, tr lithic frags,
tr carb mat, tr nod pyr, tr glauc,
pr inf vis por, no fluor.

POOH @ 2633 mMDRT DUE TO
LWD 'PULSER' FAILURE. P/U
COMPLETE LWD TOOL STRING

SURVEY @ 2646.63m
Incl 1.43° AZI: 86.39°
TVD: 2646.32m



CLAYSTONE: olv blk, frm, sbblky, tr micmic, tr carb spks.

SURVEY @ 2674.00m
Incl 1.43° AZI: 86.39°
TVD: 2673.70m

SANDSTONE: v lt gry, clr & opq, pred lse-fri, qtz, f grs, 10% vf grs, 40% med, sbang-sbrnd, sbsph-sbelg, pr sil cmt when aggs, tr pyr cmt, 5% cl mtx, tr brn mica flks, fr vis por infr, no fluor.

CALCILUTITE: lt gry-med lt gry, tr yelsh gry, v sft-frm, sbblky-blky, grd to CLYST i/p, tr carb mat.

SURVEY @ 2702.98m
Incl 1.62° AZI: 88.34°
TVD: 2702.65m

ARGILLACEOUS SILTSTONE: brnsh blk, olv blk, olv gry, sft-frm, sbblky-blky, tr carb mat, tr lithic frags.

CLAYSTONE: med gry-med dk gry, sft-frm, sbblky-blky, tr carb mat, tr micmic.

SURVEY @ 2732.91m
Incl 1.69° AZI: 88.47°
TVD: 2732.57m

SANDSTONE: wh-v lt gry, clr-opq, tr yelsh gry, 10% vf, 70% f, 20% med, lse-mod hd, mod wl-wl srt, sbrnd-rnd, sbsph-sph, tr sil cmt, gd inf vis por, no fluor.

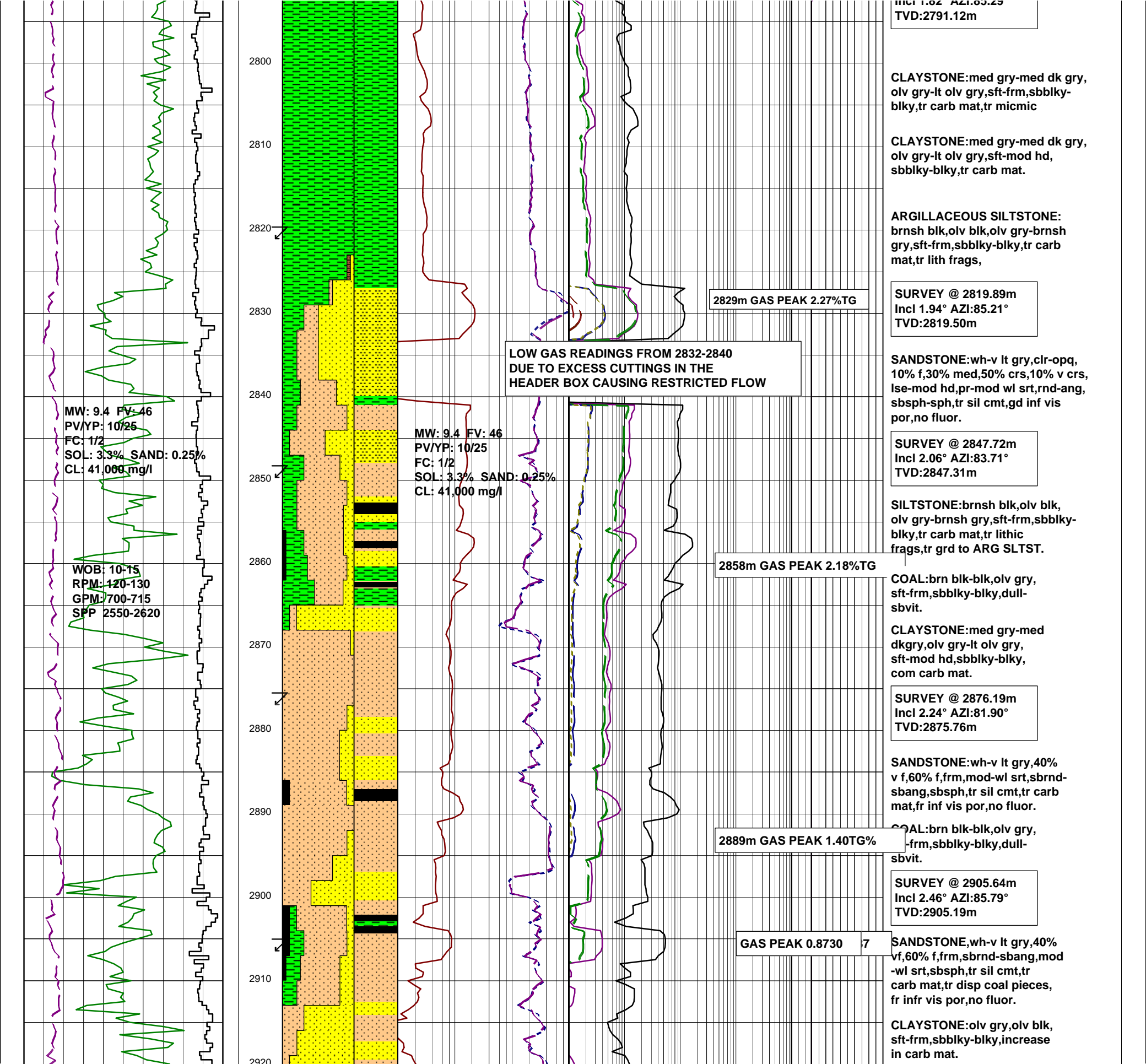
CLAYSTONE: med gry-med dk gry, olv gry-lt olv gry, sft-frm, sbblky-blky, tr carb mat, tr micmic.

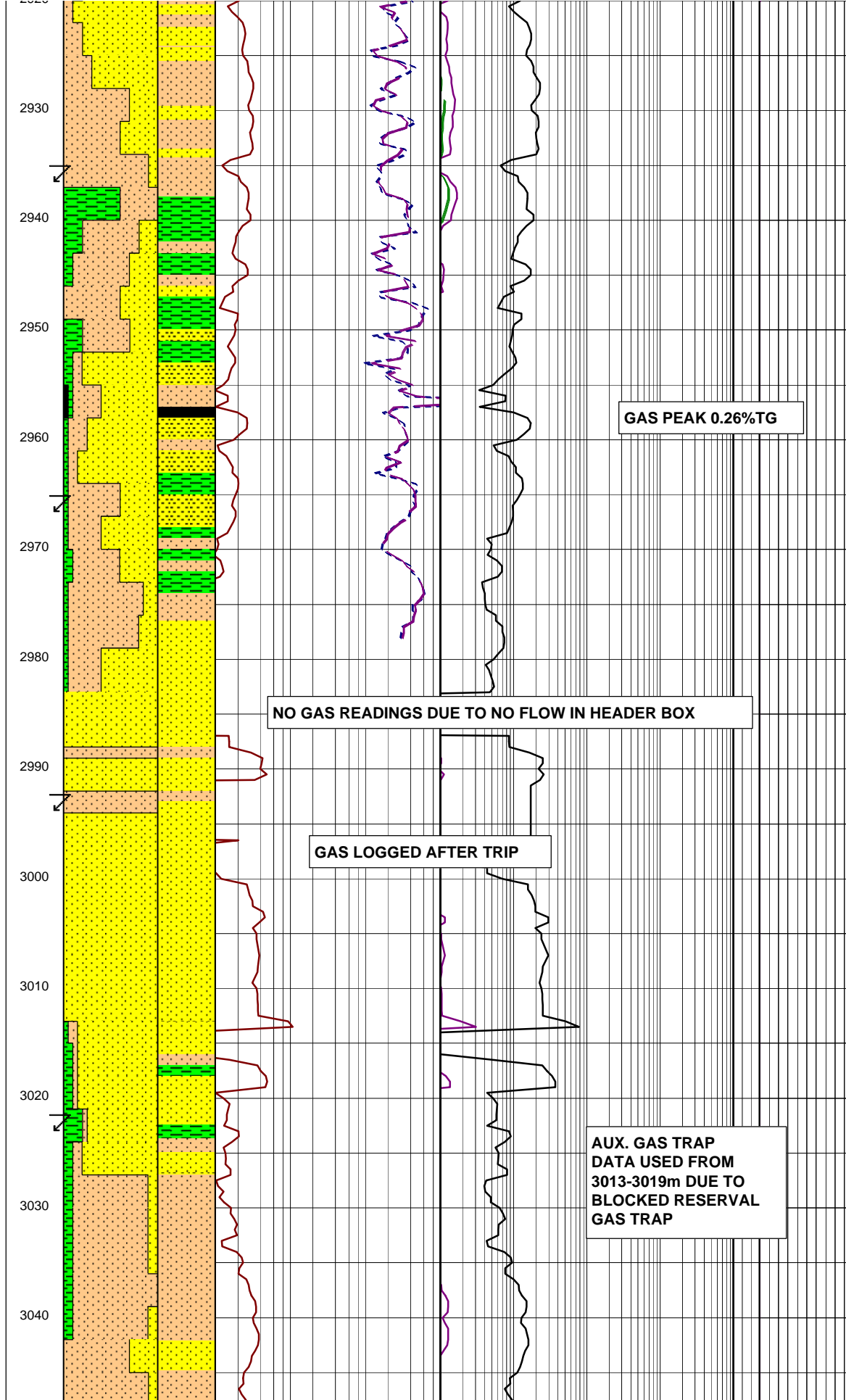
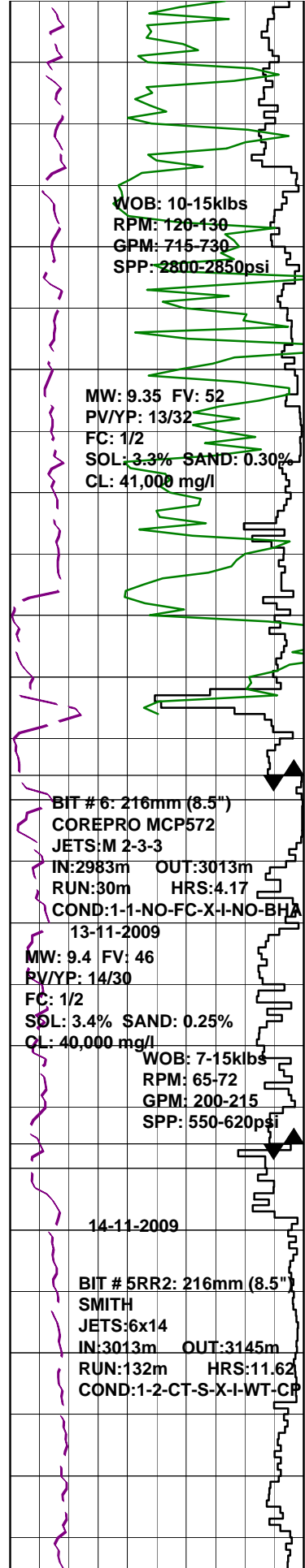
SURVEY @ 2762.56m
Incl 1.85° AZI: 89.89°
TVD: 2762.20m

ARGILLACEOUS SILTSTONE: brnsh blk, olv blk, olv gry-brnsh gry, sft-frm, sbblky-blky, tr carb mat, tr lithic frags, tr pyr.

CLAYSTONE: med gry-med dk gry, olv gry-lt olv gry, v sft-frm, sbblky-blky, tr carb mat, tr micmic.

SURVEY @ 2791.49m
Incl 1.82° AZI: 85.20°





SILTSTONE: olv gry, brn blk, sft frm, sbblky-blky, tr carb mat as thn lam spks, tr lithic frags, tr micmic, tr blk, bright coal pieces.

SANDSTONE: olv gry, mott, fri, lithofelds, vf grs, 30% f grs, mod srt, sbsph, 10% cly mtx, 2% carb mat, 1% alt felds, tr lithic frags, fr vis por, no fluor.

CLAYSTONE: olv blk, sft frm, blk-y-sbblky, tr dk mica flks.

SURVEY @ 2935.67m
Incl 2.58° AZI: 82.74°
TVD: 2935.19m

COAL: blk, grysh blk, sft, sp.

CLAYSTONE: brnsh gry-brnsh blk, olv blk, sft frm, sbblky, tr carb strks.

SURVEY @ 2963.22m
Incl 2.93° AZI: 85.15°
TVD: 2962.71m

SANDSTONE: wh-v lt gry, olv gry, mott, lt gry, clr, opq, tr yelsh, gry, 5% vf, 5% f, 20 med, 40% crs, 30% v crs, tr gran grs, lse-mod hd, pr-mod srt, sbrnd-sbang, sbsph-sph, tr carb mat, tr micmic flks, gd inf vis por, no fluor.

CORE RUN # 1
2983 - 3013 mMDRT
CUT 30m, REC 31.2m
104%

SANDSTONE: wh-v lt gry, yelsh gry, clr, vf-v crs grs, frm-hd, pr srt, sbrnd-ang, sbsph-sph, 7-10% sil cmt, 1% mic flks, fr inf vis por, tr-1% amber, no fluor.

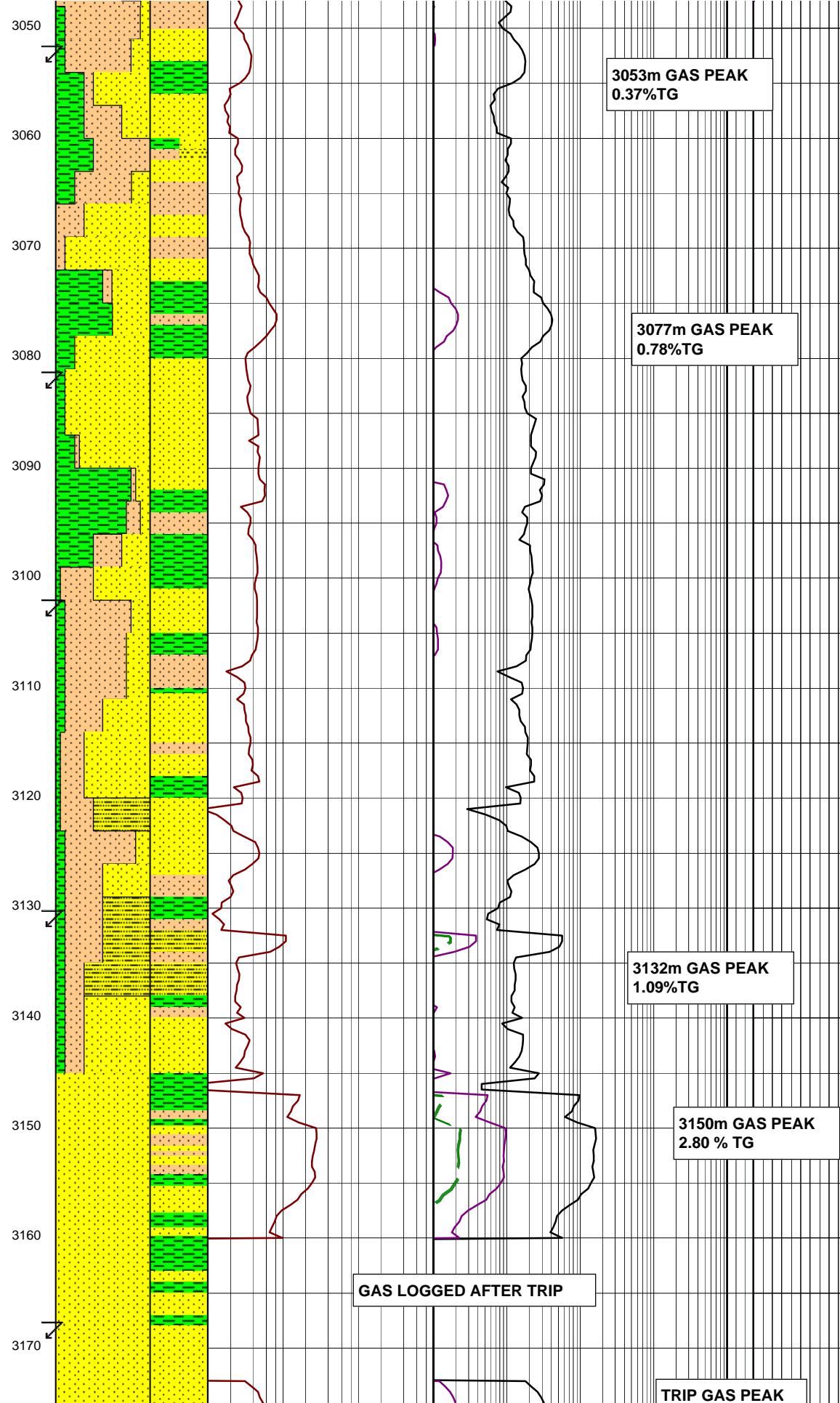
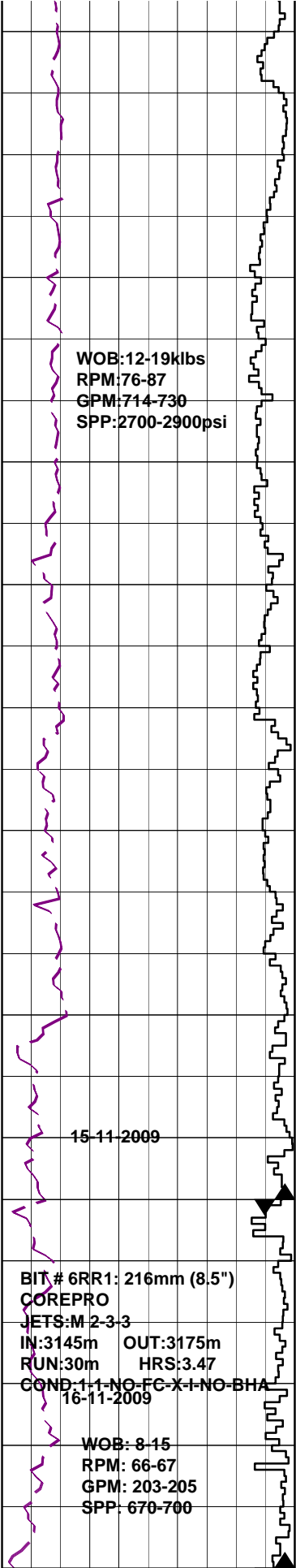
SILTSTONE: med gry-med dk gry, dk gry, mod hd-hd, blk-y-sbfiss, 15-25% mic flks.

SURVEY @ 2992.32m
Incl 2.88° AZI: 83.61°
TVD: 2991.77m

SURVEY @ 3021.53m
Incl 3.01° AZI: 83.20°
TVD: 3020.94m

SANDSTONE: lse qrtz grns, clr, opq, v lt gry, crs grs, 10% v crs, 10% med grs, ang(shtd)-sbang to sbrnd, mod srt, sbelg-sbsph, tr wh cly mtx, adhr to grn surfaces & i/p recon as sft, stcky, amorph cly, fr-gd vis por inf, no fluor.

SILTSTONE: olv blk, olv gry, sft frm, sbblky-sbfiss i/p, 2% mica flks, incl lra muscovitic typ.



tr lith frags,tr carb mat.

SURVEY @ 3051.62m
Incl 3.07° AZI:82.21°
TVD:3050.99m

SANDSTONE:v lt gry,grysh blk,
clr & opq,qtzose,20% v f-60% f
gr aggs,20% crs gr lse,sft-fri
aggs,ang & shatt lse frac,sbang-
sbrnd,pr srt,sbsph-sbelg,aggs w/
10% cly mtx,10% slt & wk sil cmt,
tr mic flks,tr carb spks, lse
frac w/ wh cly mtx to grs,fr vis
por,no fluor.

SURVEY @ 3080.66m
Incl 3.23° AZI:81.34°
TVD:3079.99m

CLAYSTONE:brnsh gry,frm,
sbbky-blky,tr micmic,tr carb
mat,f lam.

SURVEY @ 3101.98m
Incl 3.47° AZI:82.50°
TVD:3101.27m

SILTSTONE:v lt gry-lt gry,med
lt gry-med dk gry,sft-frm,sbbky-
blky,com carb lam,tr micmic,grd
to ARG SLTST i/p.

SANSTONE:wh-v lt gry,clr,tr
lt grnsh gry,10% v f,55% f,30%
med,5% crs grs,sft-mod hd, mod
srt,rnd-sbrnd,sbsph-sph,tr
micmic,tr lith frag,fr inf vis
por,nofluor.

SURVEY @ 3130.21m
Incl 3.75° AZI:81.59°
TVD:3129.44m

ARGILLACEOUS SANDSTONE:
wh-v lt gry,clr,yelsh gry,tr lt
grnsh gry,med dk gry-brnsh gry,
50% v f,40% f,50% med,5% crs
grs,20% cly,sft-frm,mod-wl srt,
sbrnd-rnd,sbsph-sph,tr carb mat,
tr lith frag,tr micmic,pr inf vis
por,no fluor.

CORE RUN # 2
3145 - 3175 mMDRT
CUT 30m, REC 29.25m
97.5%

SANDSTONE:wh-v lt gry,yelsh
gry,10% vf,90% f grs,sft-frm,
sbrnd-sbang,sbsph-sph,com sil
cmt,tr grnsh gry-dk grnsh gry
ambr,tr mic flks,pr inf vis
por,no fluor.

SANDSTONE:w-v lt gry,lt gry,tr
yelsh arv,tr lt arnsh arv.vf-crs

BIT # 5RR4: 216mm (8.5")
SMITH
JETS:6x14
IN:3175m OUT:3235m
RUN:60m HRS:6.11
COND:

17-11-2009

18-11-2009

3180

3190

3200

3210

3220

3230

3240

3250

0.96% TG

grs,frm-hd,sbrnd-sbang,sbsph-
sph,com sil cmt,tr COAL,tr dk
grnsh gry ambr,tr mic flks,pr
inf vis por,no fluor.

SURVEY @ 3167.65m
Incl 3.79° AZI:84.07°
TVD:3166.80m

CLAYSTONE:lt brnsh gry-brnsh
gry,mod yelsh gry-grysh brn,sft-
frm,sbblky-blky,tr carb mat.

SURVEY @ 3194.79m
Incl 3.87° AZI:83.32°
TVD:3193.88m

SILTSTONE:med lt gry-med gry,
dk gry-olv blk,sft-frm,sbblky-
sbfiss,tr micmic,tr carb mat.

SANDSTONE:wh-v lt gry,lt gry,
clr,tr yelsh gry,tr pnksh gry,
20% f,40% med,30% crs,10% v crs,
sft-mod hd,mod srt,sbrnd-ang,
sbsph-sph,tr carb mat,gd inf

SURVEY @ 3235.00m
Incl 4.33° AZI:83.41°
TVD:3233.99m

SURVEY @ 3223.60m
Incl 4.33° AZI:83.41°
TVD:3222.62m

TD TREFOIL-2 @ 03:00
216mm (8.5") SECTION
ON THE 18TH NOV 2009