



Scale 1:500 Metric

Well Name: WOMBAT 3
Location: GIPPSLAND BASIN, VIC.
Licence Number: PEP 157
Spud Date: 23 SEPT 2004
Surface Coordinates: LATITUDE : 38 21 28 S
 LONGITUDE : 147 08 57 E
Region: ONSHORE VIC.
Drilling Completed: 24 OCT 2004
Bottom Hole Coordinates:
Ground Elevation (m): 19 m ASL **K.B. Elevation (m):** 22.65 m A
Logged Interval (m): 20 m **To:** 2178 m **Total Depth (m):** 2178 m
Formation:
Type of Drilling Fluid: SPUD MUD - KCL POLYMER - WATER - PHPA POLYMER
 Printed by MUD.LOG from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com

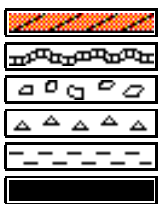
OPERATOR

Company: LAKES OIL NL
Address: Level 11
 500 COLLINS STREET, MELBOURNE, VIC. 3000

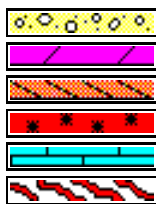
GEOLOGIST

Name: DAVE HORNER
Company: ECL
Address:

ROCK TYPES



Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal



Congl
 Dol
 Gyp
 Igne
 Lmst
 Meta



Mrlst
 Salt
 Shale
 Shcol
 Shgy
 Sltst













Ss
 Till
 Blank

ACCESSORIES








MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlit
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol

Π

-  Minxl
-  Nodule
-  Phos
-  Pyr
-  Salt
-  Sandy
-  Silt
-  Sil
-  Sulphur
-  Tuff

FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal

A

	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom

STRINGER

	Anhy
	Arg
	Bent
	Coal









 **Gyp**
 **Ls**
 **Mrst**
 **Sltstrg**
 **Ssstrg**

TEXTURE

BS	Boundst
C	Chalky
CX	Cryxln
E	Earthy
FX	Finexln
GS	Grainst
L	Lithogr
MX	Microxln
MS	Mudst
PS	Packst
WS	Wackest

OTHER SYMBOLS

POROSITY TYPE

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

SORTING

W Well
M Moderate
P Poor




ROUNDING

R	Rounded
r	Subrnd
a	Subang
A	Angular

OIL SHOWS

☐ Even
☐ Spotted
☐ Ques
☐ Dead

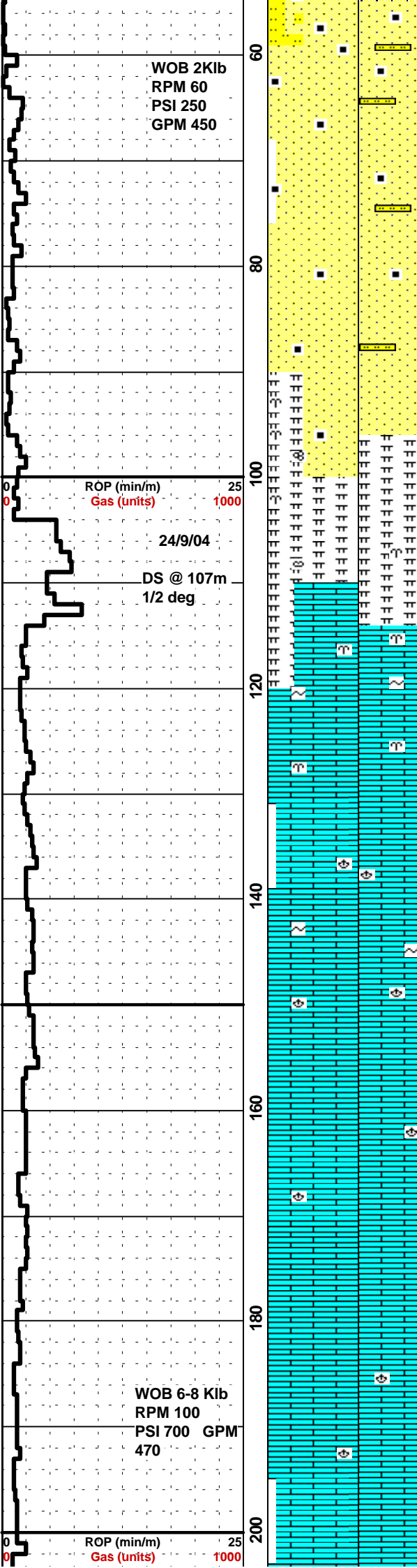
INTERVALS

	None
	Core
	Dst

EVENTS

Rft
Sidewall
Csg
Dst-top
Dst-bot

Curve Track 1		Depth	% Lithology	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5			
ROP (min/m)	Gas (units)						TG (units)	C1 (ppm)	C2 (ppm)	C3 (ppm)
0	25	0				WOMBAT #3 SPUDDED AT 1700 HRS 23 SEPT 04	100	1000	10 ⁴	10 ⁵
						13 3/8" (340 mm) CASING SET AT 12m				
						DRILL AHEAD 12-1/4 " HOLE WITH SPUD MUD		ZERO GAS		
		20				SANDSTONE: v lt gy to v lt yel to pl wh, occ pl orng, f to v crs, mod srt, lse qtz grs, tr arg mtx, tr liths, unconsol, v gd inf por, n/s.				
								HAUNTED HILL GRAVELS		
						SANDSTONE: v lt gy to v lt yel to v pl brn, clr-opq, f to v crs pred crs to v crs, w srt, sbnd to w rnd, tr arg mtx, gen lse qtz, v gd inf por, n/s.				
		40								
						SANDSTONE: v lt blu gy-v lt brn-v lt gy, vf-crs pred med-crs, clr to transl, incr mica, tr carb matl & coal detritus		ZERO GAS		



incr mica, tr carb mat & coal detritus, gd inf po, n/s.

MW: 9.0, FV: 45, PV/YP: 5/30,
Gel:14/19, WL:18.2, FC: 3, Sol:4.7,
pH: 9.5, Cl: 700

SANDSTONE: v lt blu gy-v pl brn-pl
wh, f-v crs pred med-crs, pr srted,
sbrnd-w rnd, clr-transl-opq, occ frsty,
tr liths, tr carb mtl/spks, gd inf por,
n/s.

SANDSTONE: v lt gy-pl wh-v pl brn,
clr-transl-opq, occ frsty, f-v crs pred
med-crs lse grains, tr silt mtx, gd inf
por, n/s.

MARL: yls gy, lt gy, cream, f-pred
m, dom fos frags incl bry, ech
spines, forams & gast, lse, mod arg,
tr crs SS grns, rr dk gn to bk glauc,
n/s.

CALCARENITE: lt gy, med gy, tr lt
bn, vf to pred med, fri, com fos
frags a/a, com dk gn to bk glauc, pr
vis por, n/s.

CALCARENITE: a/a, lt gy, med gy,
gnsh gy, becmg more calciluttitic,
n/s.

CALCARENITE: lt gy, fg, abnd f fos
frags, sl arg, tr v f-rr crs qtz grns,
tr- com glauc, fri, v pr vis por, n/s.

CALCARENITE: a/a, rr glauc, n/s.

CALCARENITE: lt gy, lt yl gy, fg,
abnd fos frags with abnd bry, sl
argil, rr glauc, fri, pr vis por, n/s.

CALCARENITE: lt gy, lt yl gy, fg,
com fos frags, sl argil, rr glauc, fri,
pr vis por, n/s.

JEMMY'S POINT FORMATION

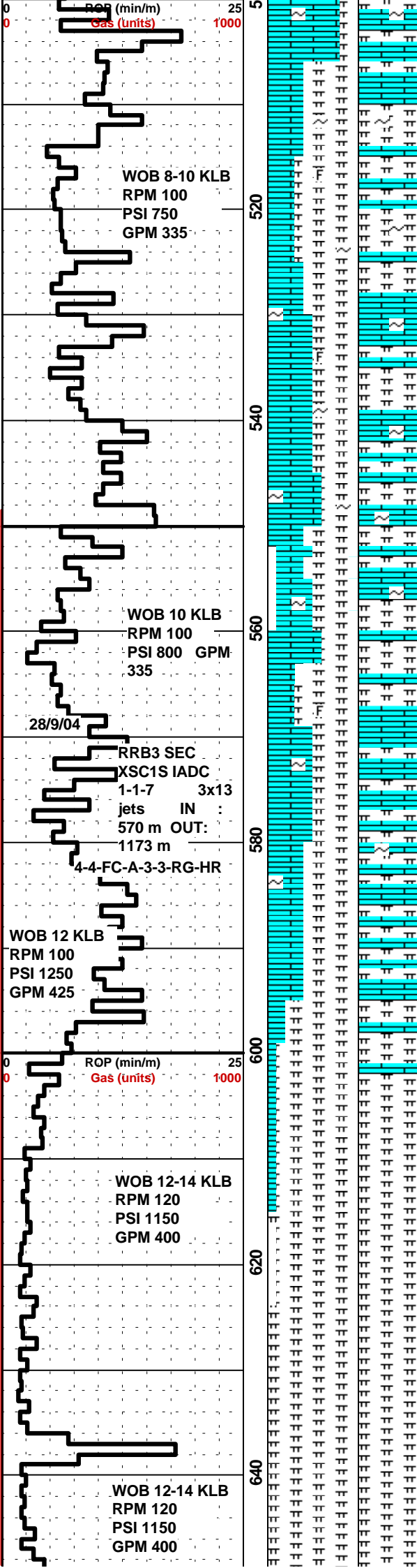
TAMBO RIVER FORMATION

TG, C1-C5
ZERO GAS

GIPPSLAND LIMESTONE

ZERO GAS

TG, C1-C5



MARL: lt gy-gy wh-lt yel gy, v sft, amorph-blky, disp, grdg calc Clyst i/p, washing out, pr inf por, n/s.

Poor sample at shakers 510-525

MARL: v lt gy-gy wh-pl brn gy, arg grdg Calc Clyst i/p, amorph-blky, v sft-sft, disp, tr lith frags, tr glauc spks, tr bioclasts, washing out, pr inf por, n/s.

LIMESTONE: lt gy-lt olv gy-lt brn gy, arg-calcisl, blky, frm-mod hd, tr bioclasts & lith frags, tr-com micrite, tr mica spks, tr glauc, grdg to MARL a/a ip, pr-v pr inf por, n/s.

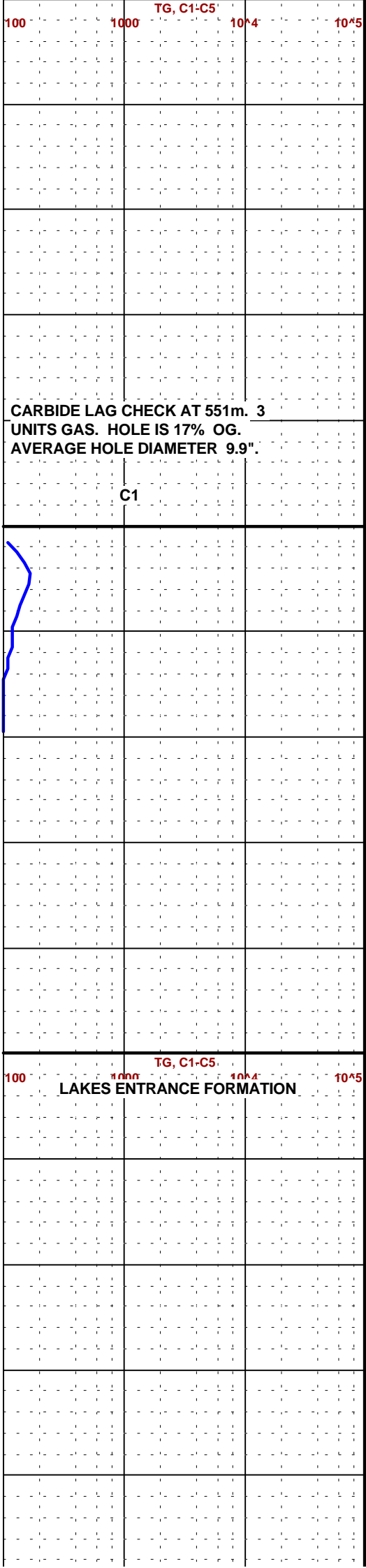
MARL: lt gy-med gy-lt blu gy, sft-frm, v disp i/p, amorph-sbblky, tr foss frags, tr micas, tr glauc, grdg i/p calc Clyst, v pr inf por, n/s.

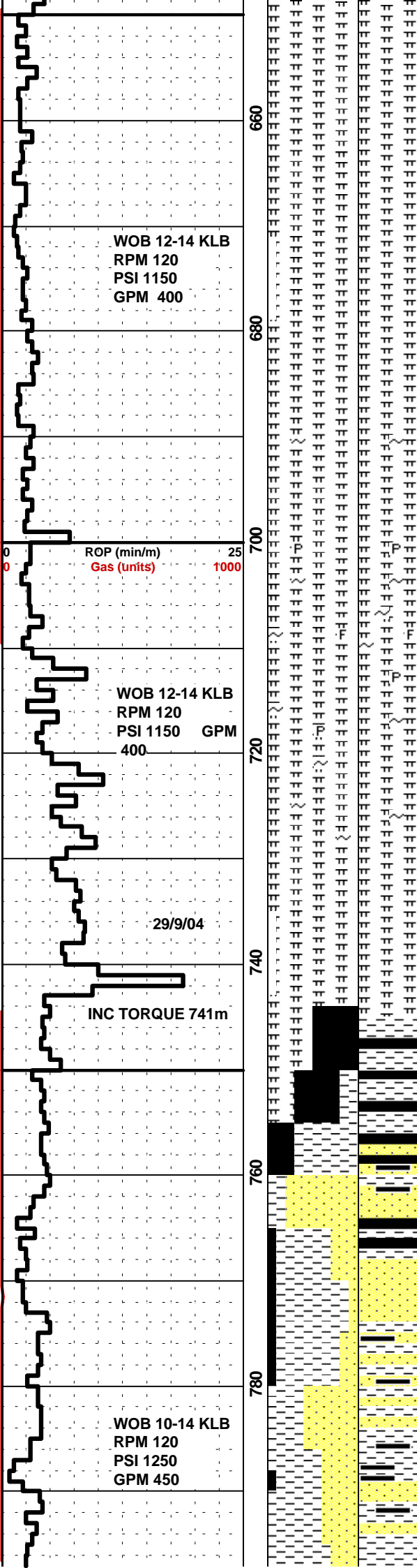
LIMESTONE: lt gy-lt olv gy-lt brn gy, arg-calcisl, blky, frm-mod hd, tr bioclasts & lith frags, tr-com micrite, tr mica spks, tr glauc, grdg to MARL a/a ip, pr-v pr inf por, n/s.

MW: 9.1, FV:62, PV/YP: 13/29, Gel: 10/14, WL: 6.0, FC: 1, Sol: 2.8, pH: 9.5, Cl: 32 400

MARL: gen a/a, bcmg dom lt olv gy-lt grn gy w/depth, sft-occ frm.

MARL: gen a/a bcmg dom lt olv gy-lt grn gy w/depth, sft-occ frm.





MARL: lt-med grn gy-v lt brn gy-v pl gy, calc, tr foss frags & glauc, grdg to calc Clyst i/p, amorph-sbblky, sft-frm, disp i/p.

MW: 9.1, FV:62, PV/YP: 13/29, Gel: 10/14, WL: 6.0, FC: 1, Sol: 2.8, pH: 9.5, Cl: 32 400

MARL: lt-med grn gy-v lt brn gy-v pl gy, calc, tr foss frags & glauc, grdg to calc Clyst i/p, amorph-sbblky, sft-frm, disp i/p.

MARL: lt-med grn gy-v lt brn gy-v pl gy, incr pl grn gy w/depth, calc, tr foss frags & glauc grs, tr dissem pyr, grdg to calc Clyst i/p, amorph-sbblky, sft-frm, disp i/p.

MARL: gen a/a incr grn gy w/depth, incr tr glau grs, tr dissem pyr, tr crptoxln dol.

MARL: lt gy-v pl grn gy-lt brn gy, v calc, foss frags, com micrite, rr lt brn crpto-micxln dol, tr glauc, sft-frm, disp i/p, non fiss, v pr inf por, n/s.

MARL: off wh to med gn gy, lt to med bn gy, v calc, com forams & other fos frags, com gnsh bk glauc, com med bn cryptoxln dol, firm, sbblky, n/s.

COAL: bl to dk bn, dull to earthy, sbblky, mod to v arg, tr to com py, firm, no oil fluor.

SILTY CLAYSTONE: m to dk bn, occ very silty, sl calc, v carb gradg to COAL, sft, disp, sbblky.

SANDSTONE: lt bn, off wh, f to pred crs, pr srtd, subrnd, pred lse, tr wh cy mtx, gd inf por, no oil fluor.

MW: 9.5, FV:69, PV/YP: 18/36, Gel: 6/11, WL: 5.8, FC: 1, Sol: 4.5, pH: 8.8, Cl: 30 500

SILTY CLAYSTONE: off wh, lt bn, dk bn, sli to v carb, abdt lse vf to crs qtz

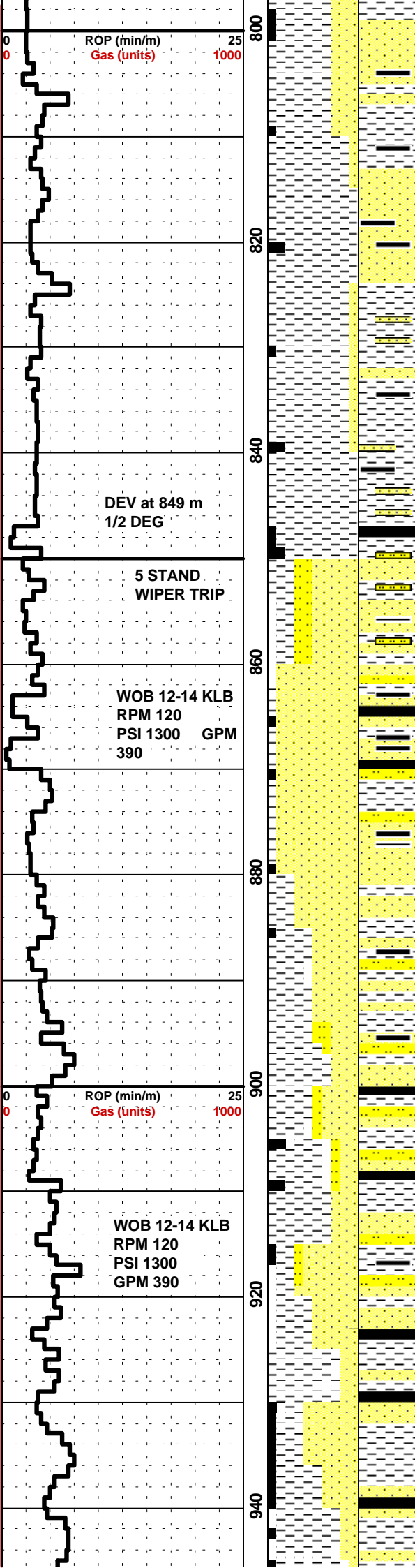
ZERO GAS

C1

TG, C1-C5

LATROBE GROUP

C1 ONLY



grains grd to SS, com bk Coal detritus, sft, non fis.

SANDSTONE: lt to med bn, vf to pred crs, sa to rnd, p srted, gen lse, abdt bn cy mtx supporting grains, gen lse crs qtz grains, tr wk sil cmt, com Coal detritus, v pr vis por, no oil fluor.

SILTY CLAYSTONE: med bn gy, dk bn, sli to v carb, abdt disp vf to crs qtz grains grd to SS, com bk Coal detritus, sft, non fis.

SANDSTONE: lt bn gy,vf to crs, sbang-w rnd, pr srted, tr-com brn arg/silt mtx washing out, tr wk sil cmt, tr Coal detritus, lt bn to pl yel to mlky wh to trnsi-opq-occ frsty qtz grains, tr liths, gen lse, pr-gd inf por, no oil fluor

MW: 10.1, FV:65, PV/YP: 24/33, Gel: 6/12, WL: 5.6, FC: 1, Sol: 8.2, pH: 9.2, Cl: 26 000

SANDSTONE: lt bn, vf to crs, trnsi-opq & rr frstd qtz grains, sbrnd-w rnd, v pr-pr srted, com-abnt arg/silt mtx washing out, tr wk calc cmt, gen lse grs, v pr inf por, no oil fluor.

CLAYSTONE: med dk brn-brn, silty, v carb grd to Coal, sft-frm, amorph, nonfiss, tr vf-f qtz grs.

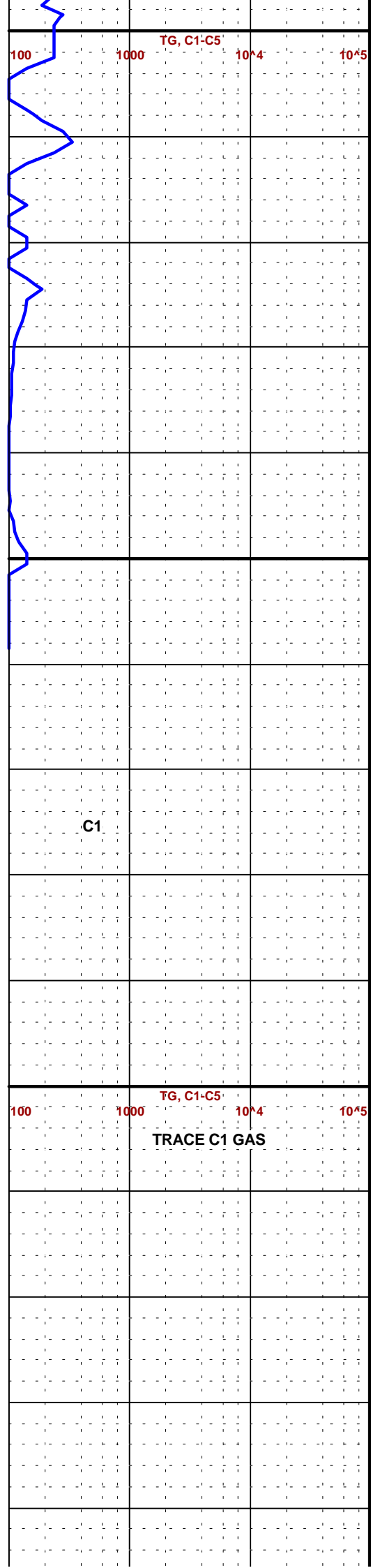
COAL: blk to dk bn, dull to earthy, sbblky, mod to v arg, tr to com py, firm, nonfiss.

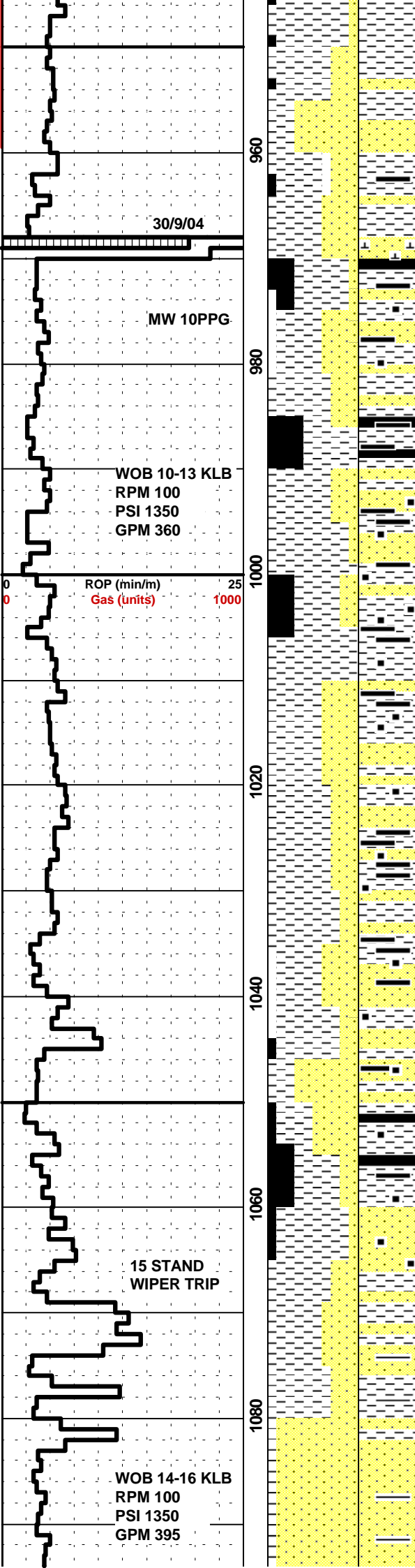
MW: 10.0, FV:68, PV/YP: 23/30, Gel: 6/12, WL: 5.2, FC: 1, Sol: 7.6, pH: 9.3, Cl: 30 000

CLAYSTONE: lt brn-med dk brn, silty, v carb, sft-frm, amorph, nonfiss, grd to arg sft brn Coal a/a.

SANDSTONE: lt bn, vf-crs, sbang-w rnd, pr srted, com brn arg mtx washing out, tr calc cmt, rr pyr, lse, clr-clss-v lt gy-occ v lt yel qtz grns, pr inf por, no oil fluor.

CLAYSTONE: lt brn-med dk brn, silty, v carb, sft-frm, amorph, nonfiss, grd to arg sft brn Coal.





COAL: dk brn-brn blk, dull-earthly occ sbvit, frm-hd. subblky-subfiss,

SANDSTONE: lt bn, vf-crs, subang-w rnd, pr srted, com brn arg mtx washing out, tr calc cmt, rr pyr, lse, clr-clss-v lt gy-occ v lt yel qtz grains, pr inf por, no oil fluor.

SANDSTONE (965-970m): a/a, v hd com med grained calc cemented qtz grains, tight, no oil fluor.

MW: 10.0, FV:68, PV/YP: 23/30, Gel: 6/12, WL: 5.2, FC: 1, Sol: 7.6, pH: 9.3, Cl: 30 000

INTERBEDDED SANDSTONE & CLAYSTONE & MINOR COAL

SANDSTONE: lt brn gy, v f to dom crs, sbang to subrnd, pr srt, wk si cmt, com to abndt arg & silt mtx, tr gy, bn & rd liths, clr to opaque qtz grns, tr bk coaly detritus, pred lse grains in sample, g inf por, no oil fluor, interbedded with:

CLAYSTONE: m to v dk bn, dk bn gy, occ lt bn, v slty, sl to mod calc, v carb grdg to Coal i/p, variable, tr mmic, fm, disp, grading to:

COAL: dk brn-brn blk, dull-earthly occ sbvit, v arg i/p, frm-hd, sbblky-sbfiss occ blk.

CLAYSTONE: gen a/a, v dk bn grdg to bk where v carb, very disp overall.

MW: 10.1, FV:70, PV/YP: 24/32, Gel: 6/11, WL :4.8, FC: 1, Sol: 8.4, pH: 9.5, Cl: 30 000

CLAYSTONE: variable med to v dk bn, dk bn gy, lt bn, pale bn to off wh, v silty, com carb grdg to Coal a/a, v disp.

CLAYSTONE: off wh-crm-v pl brn gy, v sft-sft, disp i/p, noncalc, amorph, tr lt grn liths.

SANDSTONE: lt bn, off wh, f-gran, dom v crs, ang-rnd, pr srted, tr sil cmt, tr pyr cmt, gen clr-v pl brn gy qtz grs in abnt wh arg mtx, tr liths, pr inf por, no oil fluor.

TRACE C1 GAS

CARBIDE LAG CHECK AT 983m. 30 UNITS GAS. HOLE IS 8% OG. AVERAGE HOLE DIAMETER 8.9".

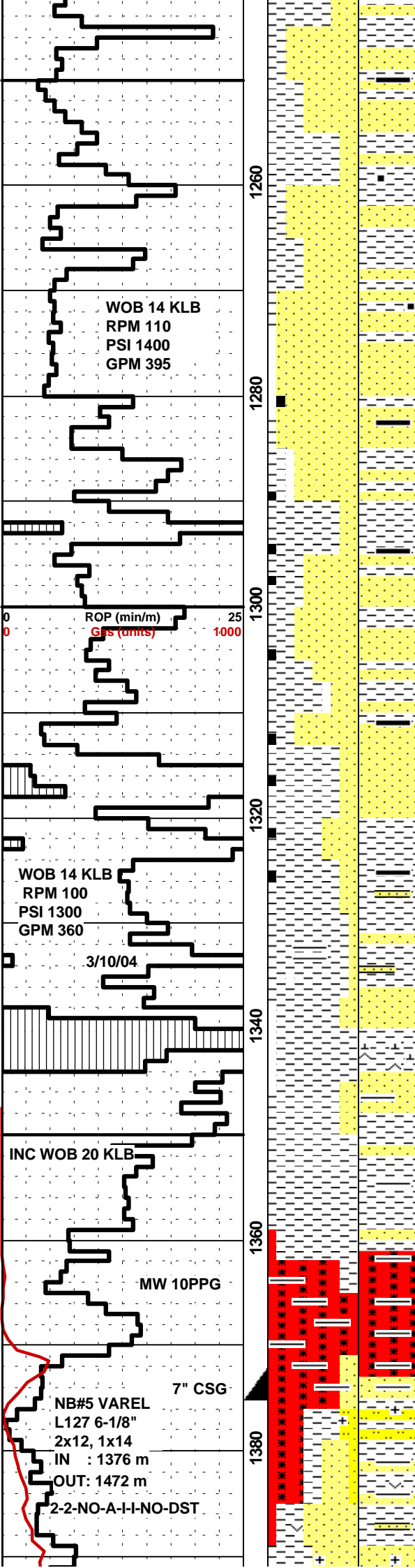
TG, C1-C5

C1

C1

TRACE C1 GAS

TRIP GAS NIL



INTERBEDDED SANDSTONE & CLAYSTONE:

SANDSTONE: v lt gy to v lt bnsh gy, v f to dom vc, ang to subrnd, pr to mod srtd, wk si cmt, tr py cmt, abndt wh arg mtx, rr gy gn liths, tr bk Coal detritus, fri, fair to gd inf por, no oil fluor.

CLAYSTONE: off wh to lt bn, occ med to dark bn, sl arg, v carb i/p, tr bk Coal, firm, very dispersive, sbblky.

SANDSTONE: v lt gy to v lt bnsh gy, v f to dom vc, ang to subrnd, pr srtd, wk si cmt, com wh arg mtx, rr gy gn liths, ptchy tr to occ com py, gen lse with clr, trnsf & frost grains, fair to gd inf por, no oil fluor.

CLAYSTONE: a/a.

MW: 10.1, FV: 84, PV/YP: 25/34, Gel :7/13, WL :4.6, FC: 1, Sol: 8.4, pH: 9.5, CI: 32 000

3m SAMPLES FROM 1305m

SANDSTONE: clss-v lt gy-v lt brn gy-occ lt blu gy, clr-trnsf-occ frstd, f-v crs dom v crs, sbang-w rnd, pr-mod srtd, tr wk sil cmt, tr str pyr cmt, com wh-crm-gy arg mtx, gen lse qtz grs, tr blk coal detritus, fr-gd inf por, no oil fluor

CLAYSTONE: off wh-crm -lt gy-med gy, v sli calc i/p, tr blk carb spks/mtl, tr mica, sft, disp, amorph-sbblky

MW: 10.0, FV: 81, PV/YP: 27/40, Gel :8/15, WL :4.2, FC: 1, Sol: 7.9, pH: 9.5, CI: 32 000

CLAYSTONE: a/a, tr to 5% clr calc (1338-1341m), tr to 10% fract clr to off wh qtzite frags.

CLAYSTONE: lt gy, med gy, off wh, sl arg, sft, v disp, amorph to sbblky.

VOLCANICS: from 1361 m, med bri grn-pl grn gy-occ red brn, arg grn (chlor) mtx, weld text, abnt xtal grths, tr calc/silt veins, gen withd to disp clay in samples, pr inf por

SANDSTONE: clr-pl grn gy-lt grn, vf-crs dom f, ang-subrnd, mod srtd, abnt off wh-grn arg mtx, tr felds, tr chlor, com volc liths, fri-lse, fr inf por, no oil fluor

FIT at 1379m = EMW 11.72 PPG

Drill ahead underbalanced with 8.4 lb/gal clean Strzelecki water

DRILL AHEAD WITH WATER 8.4 PPG

SANDSTONE: lt grn gy-pl gy, vf-med,

TRACE C1 GAS

CARBIDE LAG CHECK AT 1258m. 2 UNITS GAS. HOLE IS 9%OG. AVERAGE HOLE DIAMETER 8.9"

CARBIDE LAG CHECK AT 1276m. 4 UNITS GAS. HOLE IS 9% OG. AVERAGE HOLE DIAMETER 8.9"

TG, C1-C5.

TRACE C1 GAS

GOLDEN BEACH FORMATION

C1 TRACE ONLY

C1

VOLCANICS

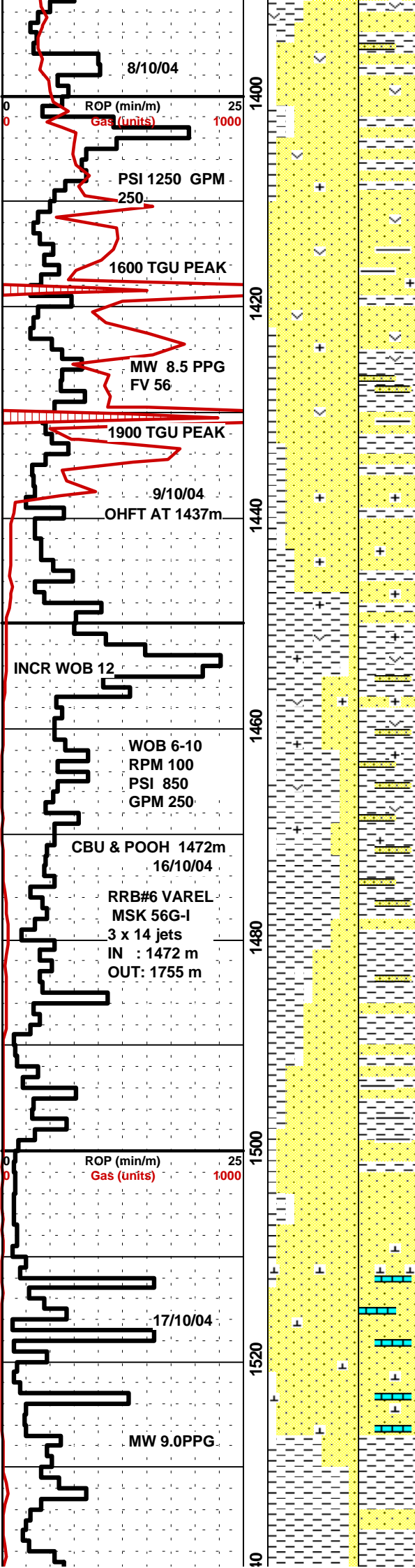
C2

STRYZELECKI GROUP

TRIP GAS 53 TGU

CG after rig repair 500 TGU

CG 370 TGU



dom f, subang-subbrnd, mod srt, wk sil cmt, com wh arg mtx, abnt altd fels & grn gy-blk volc liths, com qtz grs, tr brn micas, v pr inf por, no oil fluor

SANDSTONE: a/a, uniform, dom lse, tr arg mtx, no oil fluor.

SANDSTONE: lt grn gy, pl gy, med gn, vf-med dom f,subang-subbrnd, mod to w srted, wk sil cmt, var tr to com wh to off wh arg mtx, abnt wh altd fels & grn gy-blk volc liths, fri to lse, pr inf por, no oil fluor.

OPEN HOLE FLOW TEST AT 1437 M HOLE BRIDGED OFF, FINAL FLOW 60 MCFD.

DRILL WITH HI-VIS MUD FROM 1437m. MW 8.5 PPG, FV 57

SANDSTONE: lt-med grn gy, vf-med dom f-med, subang-subbrnd, mod srted, wk sil cmt, com wh-lt grn arg mtx, abnt fels & gy grn-blk volc liths, tr red liths, micas, fri, pr inf por, no oil fluor

CLAYSTONE: lt-med gy-lt brn-med grn gy, sli-mod silty, tr blk carb spks, tr micmic, sft, blkly-sli subfis

RUN 4-1/2" LINER TO 1461M. SLEEVED HOLE DST# 1 STABILISED FLOW 65 MCFD.

ABNT VOLCANIC CLAY CAVINGS

CLAYSTONE: lt-med gy-lt brn-med grn gy, sli-mod silty, tr blk carb spks, tr micmic, sft, blkly-sli subfis

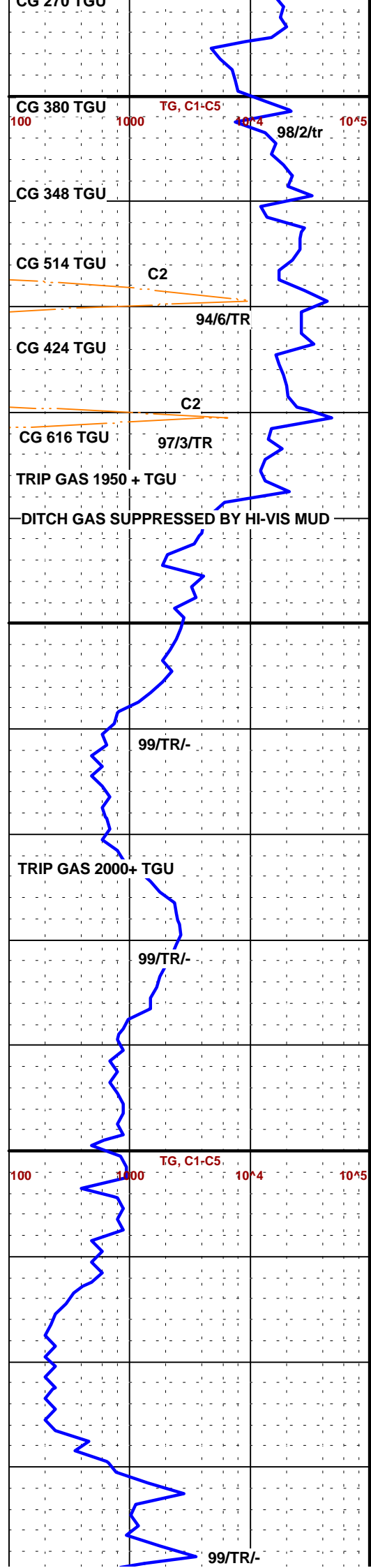
SANDSTONE: varicol clr-opq, wh-lt gy-med gy-lt yel-brn-med grn, vf-med dom f, ang-subbrnd, com wh arg mtx, tr micas, tr sil cmt, arg mtl washing out, tr fels, tr volc clastics, fri-lse, pr inf por, no oil fluor

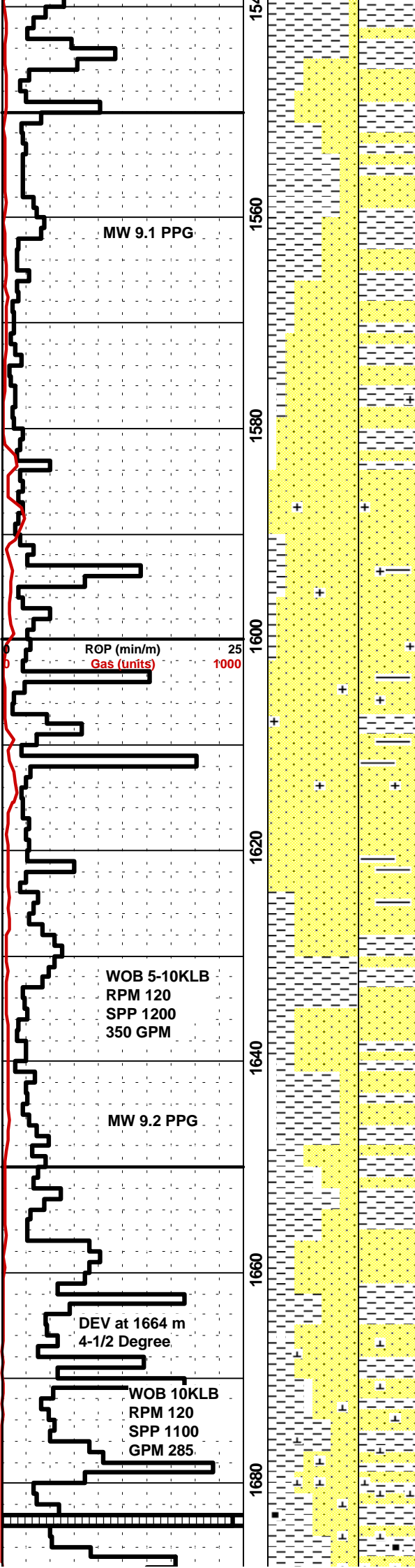
MW: 9.0, FV: 41, PV/YP: 7/12, Gel: 3/4, WL: 6.2, FC: 1, Sol: 1.8, pH: 10.3, Cl: 38 000

SANDSTONE: varicol f grs a/a with abnt calc veins

SANDSTONE: lt gy, tr dk gnsh gy, tr rd, vf to m gen m, sbang to sbrnd, mod hd to fri, mod srted, com wh arg mtx, com calc, com calc veins, com qtz veins, abdt dk gnsh gy & rd liths, pr vis por, no oil fluor.

SANDSTONE INTERBEDDED WITH & GRADING TO CLAYSTONE.





SANDSTONE: a/a, variable calc.

CLAYSTONE: variable lt to occ med gy, occ off wh, occ gnsh gy, sft to frm occ mod hd, occ silty, occ aren.

CLAYSTONE: variable lt to occ med gy, occ off wh, occ gnsh gy, sft to frm occ mod hd, occ silty, occ aren.

MW: 9.2, FV: 48, PV/YP: 14/22, Gel: 7/9, WL: 5.8, FC: 1, Sol: 3.2, pH: 10, Cl: 39 000

SANDSTONE: multicolored lt gy to lt gn gy, vf to m gen f, sbang to sbrnd, mod srtd, fri to lse, abdt wh arg mtx, var calc, qtzose i/p, abdt alt feld & dk gnsh gy & rd liths, v pr vis por, no oil fluor.

CLAYSTONE: off wh, lt gn, lt gy gn, mod silty, often aren grdg to Sandstone, rr py, firm.

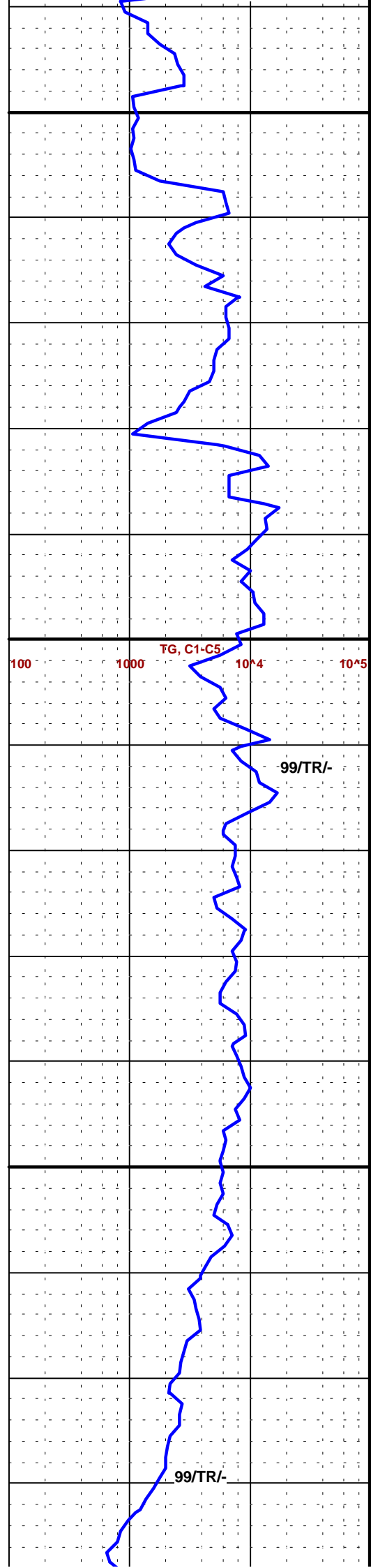
SANDSTONE: multicolored lt gy to lt gn gy, vf to m, rr crs, gen f, sbang to sbrnd, mod srtd, fri to lse, abdt wh arg mtx, tr sil cmt, tr calc, qtzose i/p, abdt alt feld & dk gnsh gy & rd liths, v pr vis por, no oil fluor.

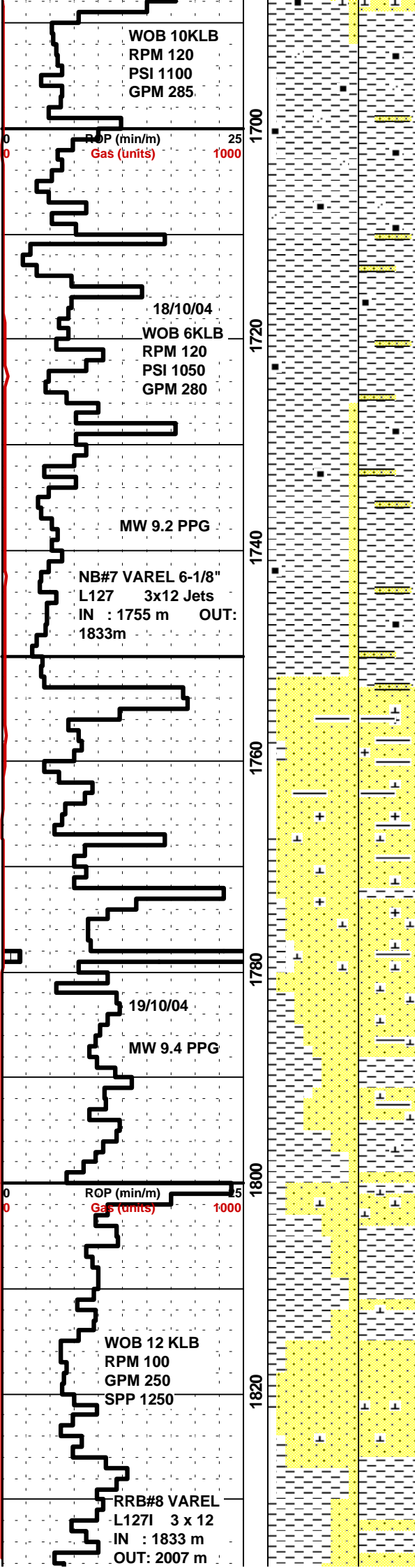
CLAYSTONE: off wh, lt gn, lt gy gn, mod silty, often aren grdg to Sandstone, rr py, firm, occ lam.

CLAYSTONE: off wh-lt gy-med gy-brn gy, silty-aren grdg vf Sst, sft-frm, blk-y-sbfis i/p, tr pyr, tr micas, tr brn carb mtl & laminae, tr blk liths, non calc

SANDSTONE: multicolored lt gy to lt gn gy, vf to m, rr crs, gen f, sbang to sbrnd, mod srtd, fri to lse, abdt wh arg mtx, tr sil cmt, tr calc, qtzose i/p, abdt alt feld & dk gnsh gy & rd liths, v pr vis por, no oil fluor.

SANDSTONE: varicol clr-trns lt gy-lt grn gy-off wh, vf-med dom f, ang-subrnd, mod-w srtd, com-abnt wh arg mtx, tr strng calc cmt/veins, abnt fels & dk lith frags, pr inf por, no oil fluor





CLAYSTONE & MINOR SANDSTONE

CLAYSTONE: off wh-lt gy-gy-lt grn gy-occ brn gy, silty, sft-frm, blkly-subfis i/p, tr mica, tr carb mtl, tr carb lam, tr lse qtz, tr blk liths

CLAYSTONE: off wh-lt gy-gy-lt grn gy-occ brn gy, silty, sft-frm, blkly-subfis i/p, tr mica, tr carb mtl, tr carb lam, tr lse qtz, tr blk liths

CLAYSTONE: lt gy, med gy, gnsh gy, bnsh gy, off wh, sft to firm occ disp, sbblky tr sbfiss, rr lam, tr mica, tr carb mat, tr lse qtz grains, tr bk liths.

MW: 9.2, FV: 47, PV/YP: 13/21, Gel: 8/10, WL: 5.8, FC: 1, Sol: 3.4, pH: 10.0, Cl: 37 000

CLAYSTONE: a/a, bcmg stky & disp.

CLAYSTONE: off wh-lt gy-gy-lt grn gy-occ brn gy, silty, sft-frm, blkly-subfis i/p, tr mica, tr carb mtl, tr carb lam, tr lse qtz, tr blk liths

SANDSTONE: clr-trnsl lt gy-off wh-pl grn gy, vf-med dom f, ang- subang, w srtd, tr sil cmt, tr calc cmt, com wh arg mtx washing out, tr fels & liths, pr inf por, no oil fluor

SANDSTONE: trnsl-opq-rr frstd, lt gy-gy-lt grn gy-off wh, vf-med dom f qtz grs, v-v w srtd, strng calc cmt i/p, incr wh clay mtx washing out,com liths, pr inf por, no oil fluor

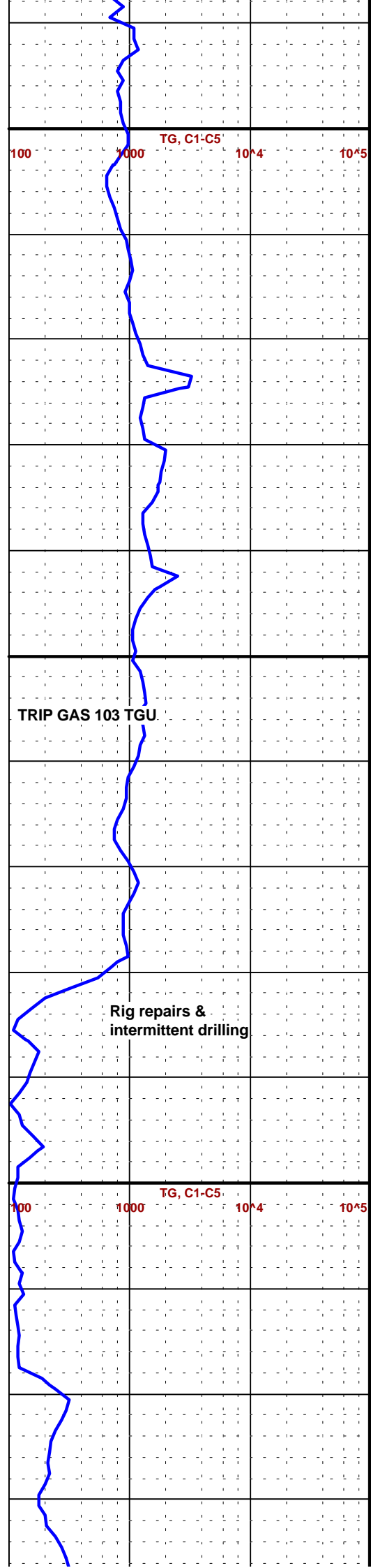
CLAYSTONE: m bnsh gy, m gy, lt bnsh gy i/p, frm-mod hd, blkly, m lam, com aren & grdg to Slst i/p, m carb flks, rr micmic

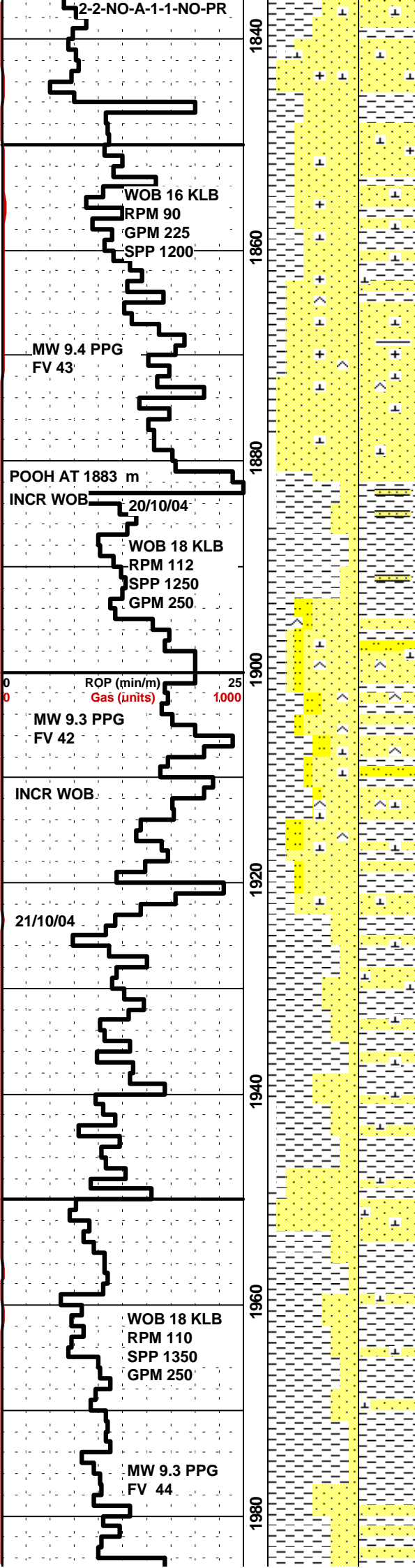
MW: 9.4, FV: 43, PV/YP: 13/17, Gel: 5/7, WL: 5.4, FC: 1, Sol: 4.9, pH: 10.2, Cl: 38 000

CLAYSTONE: m bnsh gy, lt gnsh gy, m gy, frm-hd, blkly, m subfis, rr splnt, dom arg, mod aren i/p, rr carb flks

SANDSTONE: lt gy, lt gnsh gy, m gy i/p, vf-f, m med, rr crs, m wl srt, sbang-sbrnd, m calc cmt, abn cal cmt i/p, com off wh fels, off wh arg mtx & grain rims, m dk liths, rr py, pr por, no oil fluor

CLAYSTONE: m bnsh gy, lt gnsh gy, m gy, frm-hd, blkly, m subfis, rr splnt, dom arg, mod aren i/p, rr carb flks





SANDSTONE: clr-trnsl-opq, lt gy-med gy-grn gy-occ v pl brn-off wh, vf-med dom f qtz grs, ang-subrnd, w srted, com wh-gy arg mtx, abnt silt, com dk lith frags, w cmt-tite i/p w/calc, tr fels, pr inf por, no oil fluor

SANDSTONE: clr-trnsl-opq, lt gy-med gy-grn gy-occ v pl brn-off wh, vf-med dom f qtz grs, ang-subrnd, w srted, abnt wh-gy arg mtx, com silt, incr com dk lith frags, w cmt-tite i/p w/calc, tr carb mtl, pr inf por, no oil fluor

SANDSTONE: dom v w srted f qtz a/a in clay mtx, incr varicol liths, tite, no oil fluor

CLAYSTONE: lt gy-gy-med brn gy, silty-vf aren, com altrd fels, tr blk-brn carb mtl spks & lam, tr micmic & dk mica, rr calc, blkyl-sli fiss i/p, frm-mod hd

SANDSTONE: clr-trnsl-opq, v lt gy-off wh-pl brn-pl grn-grn gy, silt-med dom f, ang-subrnd, w srted, com wh-lt gy arg mtx, gd tr calc cmt, tr strng sil cmt i/p, incr volc lithics, tr carb mtl, silty i/p, tr brn blk micas, pr inf por, no oil fluor

CLAYSTONE: gy-med dk gy-dk gy-occ brn gy, silty i/p grdg arg Siltst, micas, tr carb mtl & lam, frm-hd, blkyl-occ subfis, non calc

SANDSTONE: A/A

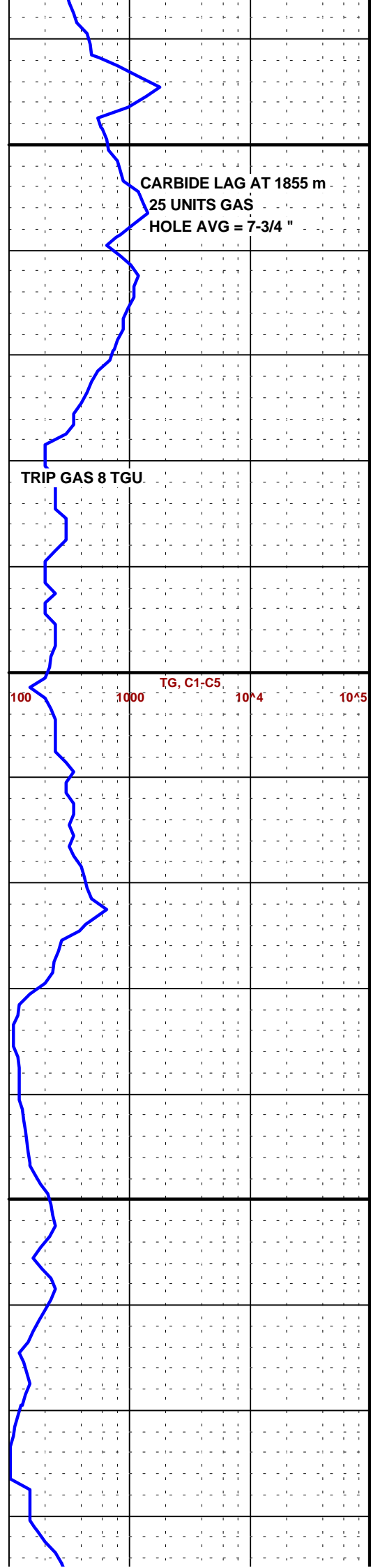
CLAYSTONE: m gy, m brnsh gy, lt brnsh gy, frm, blkyl, sbfis i/p, dom aren & grdg to Siltst, arg i/p, com carb flks & lams

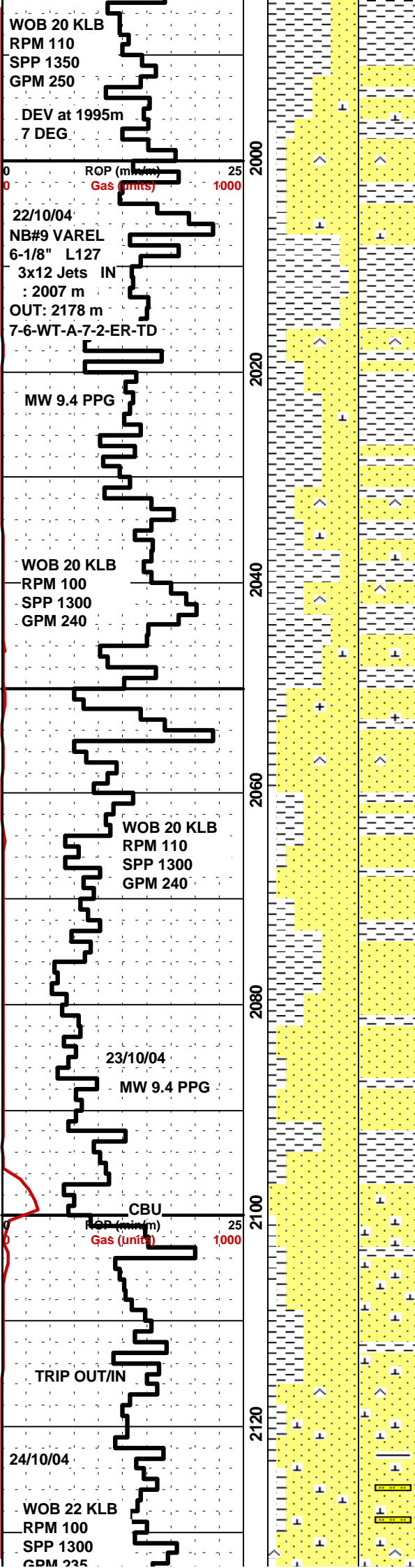
MW: 9.4, FV: 42, PV/YP: 42/12, Gel: 5/8, WL: 5.6, FC: 1, Sol: 5.4, pH: 10.0, CI: 33 000

SANDSTONE: lt gy, m grnsh gy, m gy i/p, vf-f, rr m, m-wl srt, sbang-sbrnd, clr-miky qtz, com wh fels, com calc cmt, com clay rims, rr pyr, minor slty mtx, rr coaly frags, minor dk gy & grn liths, v pr por, no oil fluor

CLAYSTONE: m brnsh gy, m gy, lt brnsh gy, frm, blkyl- sbfis, lam i/p, dom aren, mod arg i/p, com carb flks, rr pyr

CLAYSTONE: med lt gy-dk gy-brn gy, v silty, frm-hd, blkyl-subfis, tr calc veins, tr micas, com carb mtl & lams,





non calc

SANDSTONE: clr-trnsl-opq, v lt gy-off wh-grn gy-occ brn, vf-med dom f, w-v w srted, ang-subrnd, com calc cmt, com wh arg mtx, tr coal frags, com lithics, tr carb mtl, tr pyr, v pr inf por, no oil fluor

CLAYSTONE: med gy, brn gy, mod arg - v silty, frm-hd, blkly-subfis, tr micmic, m carb flks & lams

SANDSTONE: a/a

CLAYSTONE: med gy, brn gy, mod arg - v silty, frm-hd, blkly-subfis, tr micmic, m carb flks & lams

SANDSTONE: clr-trnsl-opq, v lt gy-off wh-pl brn-grn gy, vf-med dom f grs occ grdg aren Slst, w-v w srted, ang-subrnd, tr calc & sil cmt, com wh arg mtx washing out, com varicol liths, tr carb mtl, tr brn micas, pr inf por, no oil fluor

CLAYSTONE: gy-med gy-dk gy-brn gy, frm-hd, v silty grdg arg Slst i/p blkly-subfis, incr indurated w/depth, carb mtl & lam, micmic

SANDSTONE: gen a/a w tr med-crs grs, abnt clay mtx & liths, pr inf por, no oil fluor

MW: 9.4, FV: 44, PV/YP: 44/14, Gel: 6/10, WL: 5.2, FC: 1, Sol: 5.5, pH: 10.5, Cl: 31 000

SANDSTONE: a/a vf-f-v silty grdg to aren Slst i/p, abnt clay mtx spt, no oil fluor

SANDSTONE: a/a vf-f-occ v silty grdg to aren Slst i/p, abnt clay mtx spt, no oil fluor

SANDSTONE: lt grn gy, m gy, vf-m, dom m, sa-sr, mod srt, str sil & calc cmt, abn off wh arg mtx, abn alt fels & volc liths, tr org liths, abn qtz grains, tr crs br mica, abn vn calc & qtz, hd, no vis intgran por, poss pr frac por

FLUORESCENCE 2100-2103m: Vein qtz & calc w 50% bri solid to ptchy pale yel-wh fluor, weak crush cut, tr dull wh res

MW: 9.4, FV: 46, PV/YP: 13/20, Gel: 6/9, WL: 5.0, FC: 1, Sol: 5.6, pH: 10.5, Cl: 30 000

SANDSTONE: trnsl-opq lt gy-pl grn gy-v pl brn-off wh, vf-med dom f, subang-rnd, w srted, arg gy-wh mtx washing out, com sil & calc cmt, com-abnt lithics, tite-v pr inf por, no oil fluor

SANDSTONE: lt gy, m grn gy, m, occ f, wl srt, sa-sr, com clr qtz, com wh fels, com dk grn liths, com wh arg mtx 20% crs calc w/ rr qtz vn mtl hd

