



eog resources

600 Seventeenth Street

Suite 1000N

Denver, CO 80202

(303) 572-9000

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Randall CREEK 4-32H, Vertical Part

Location: Hereford Ranch Prospect

License Number: API: 05-123-31233, AFE: 310565

Region: DJ Basin

Spud Date: March 6, 2011

Drilling Completed: March 2, 2011

Surface Coordinates: NENE (501 ft. FNL & 1200 ft. FEL), Section 32, T12N - R62W, Weld County, Colorado

Bottom Hole Coordinates: SESE (600 ft. FSL & 600 ft. FEL), Section 32, T12N - R62W, Weld County, Colorado

Ground Elevation (ft): 5,347'

K.B. Elevation (ft): 5,370'

Logged Interval (ft): 1,409' To: 11,' Total Depth (ft): 11,'

Formation: Niobrara (Kn), Kn "B" Chalk

Type of Drilling Fluid: Water with Polymer, Chem gel

Printed by WellSight Log Manager from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: EOG Resources Inc.

Address: 600 17th St., Ste. 1000
Denver, CO 80202

GEOLOGISTS

Name: Robert Groth

Mike Hirsch

Company: G & H Production Co, LLC

Goolsby Brothers & Assoc, Inc

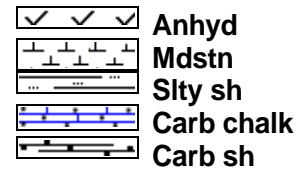
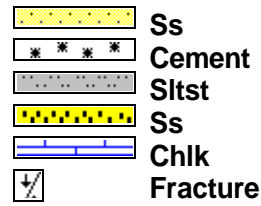
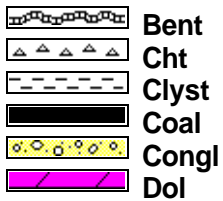
Address: 518 17th Street, Suite 1060
Denver, Colorado 80202

947 Lane 6
Powell, Wyoming 82435

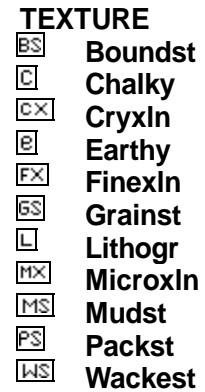
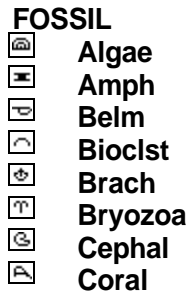
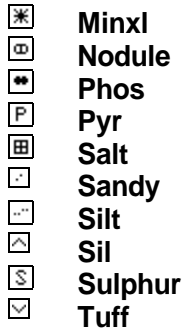
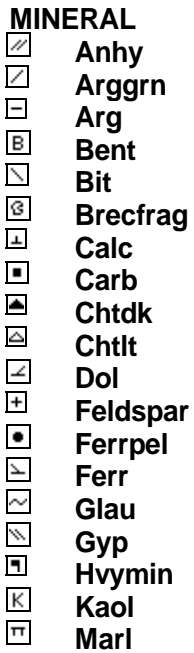
Comments

Casing

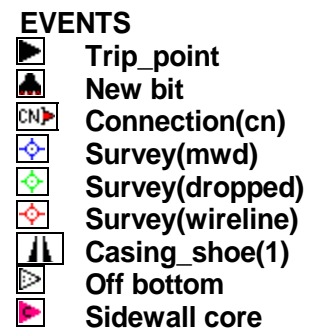
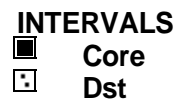
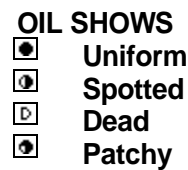
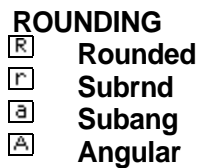
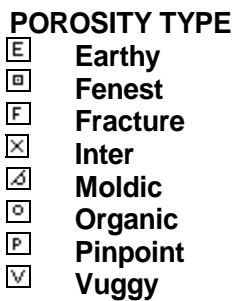
ROCK TYPES

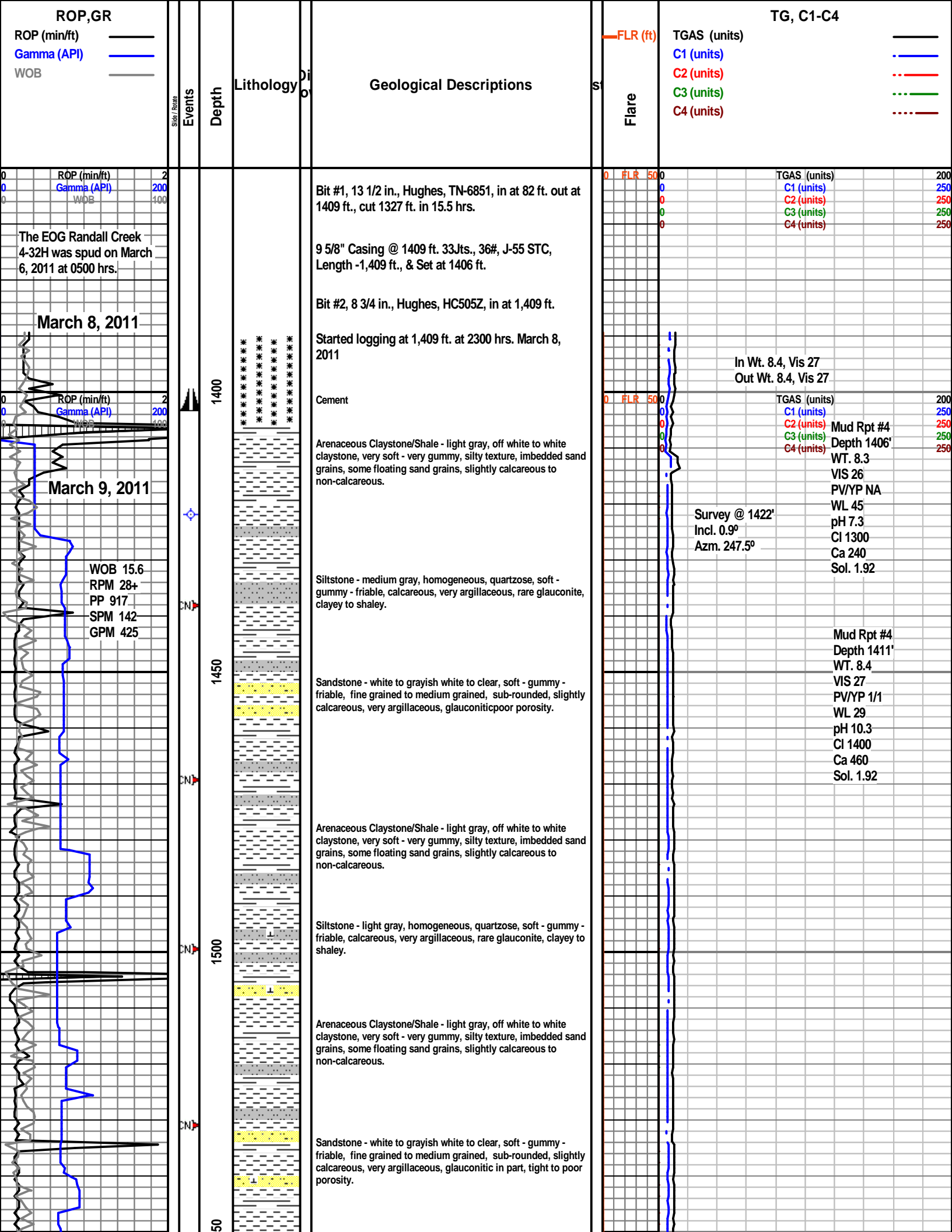


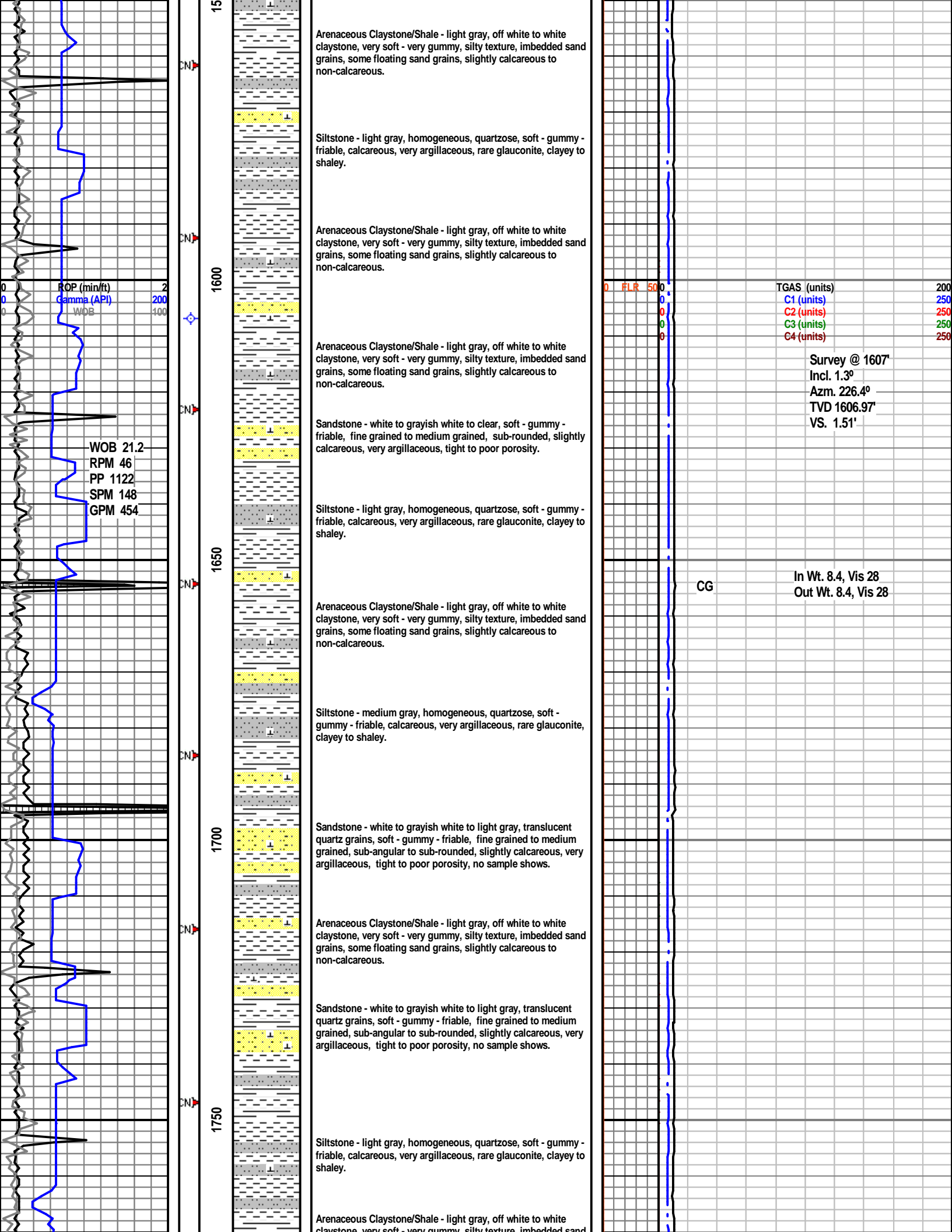
ACCESSORIES

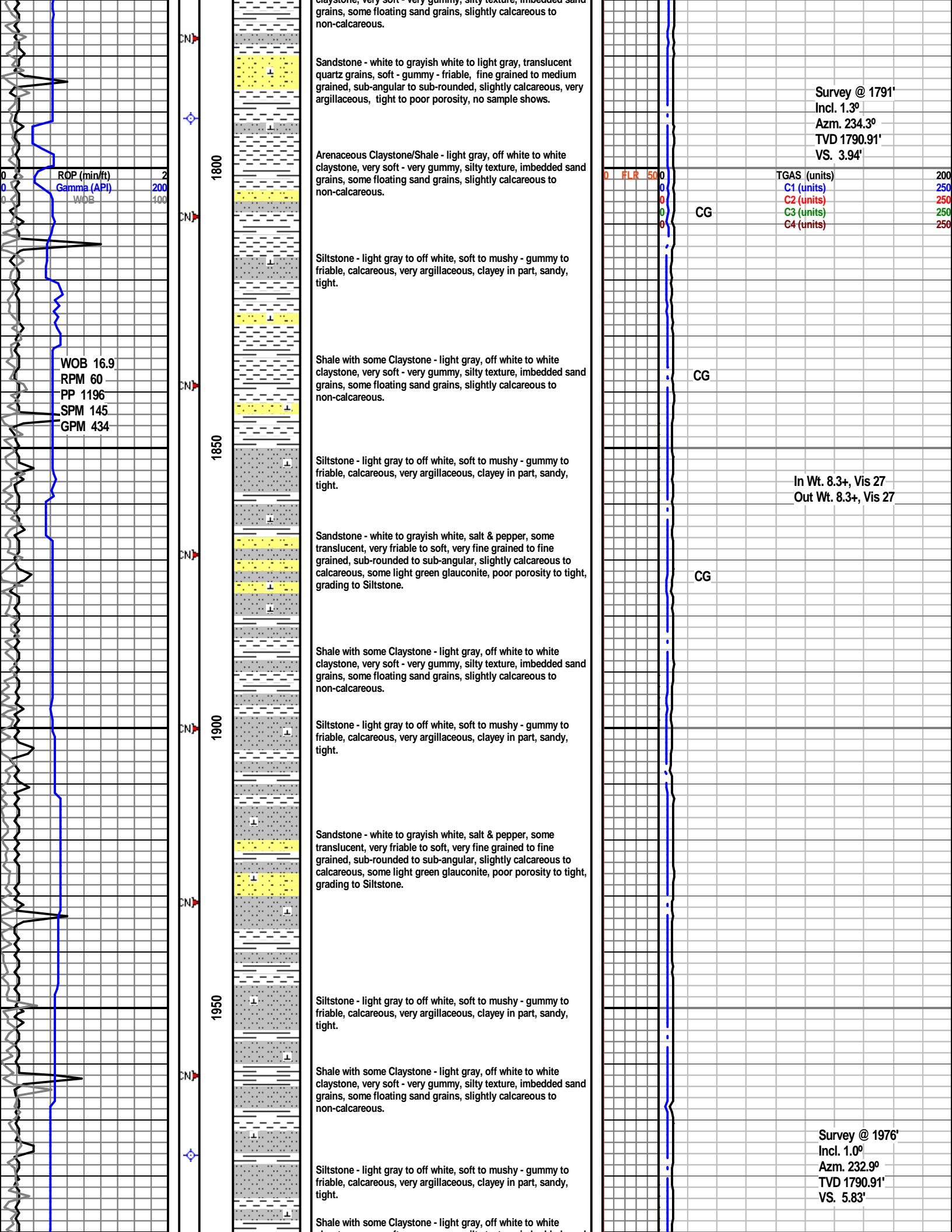


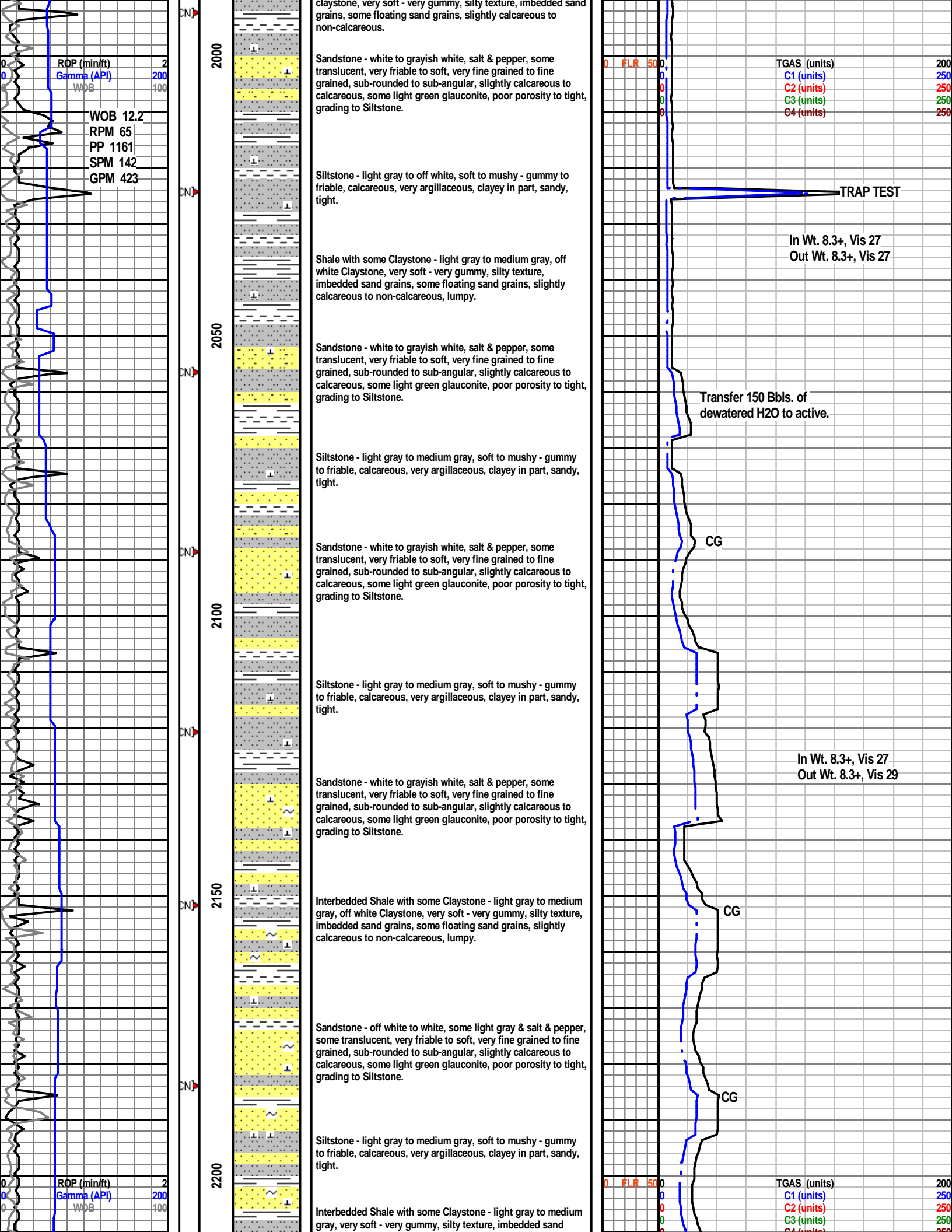
OTHER SYMBOLS

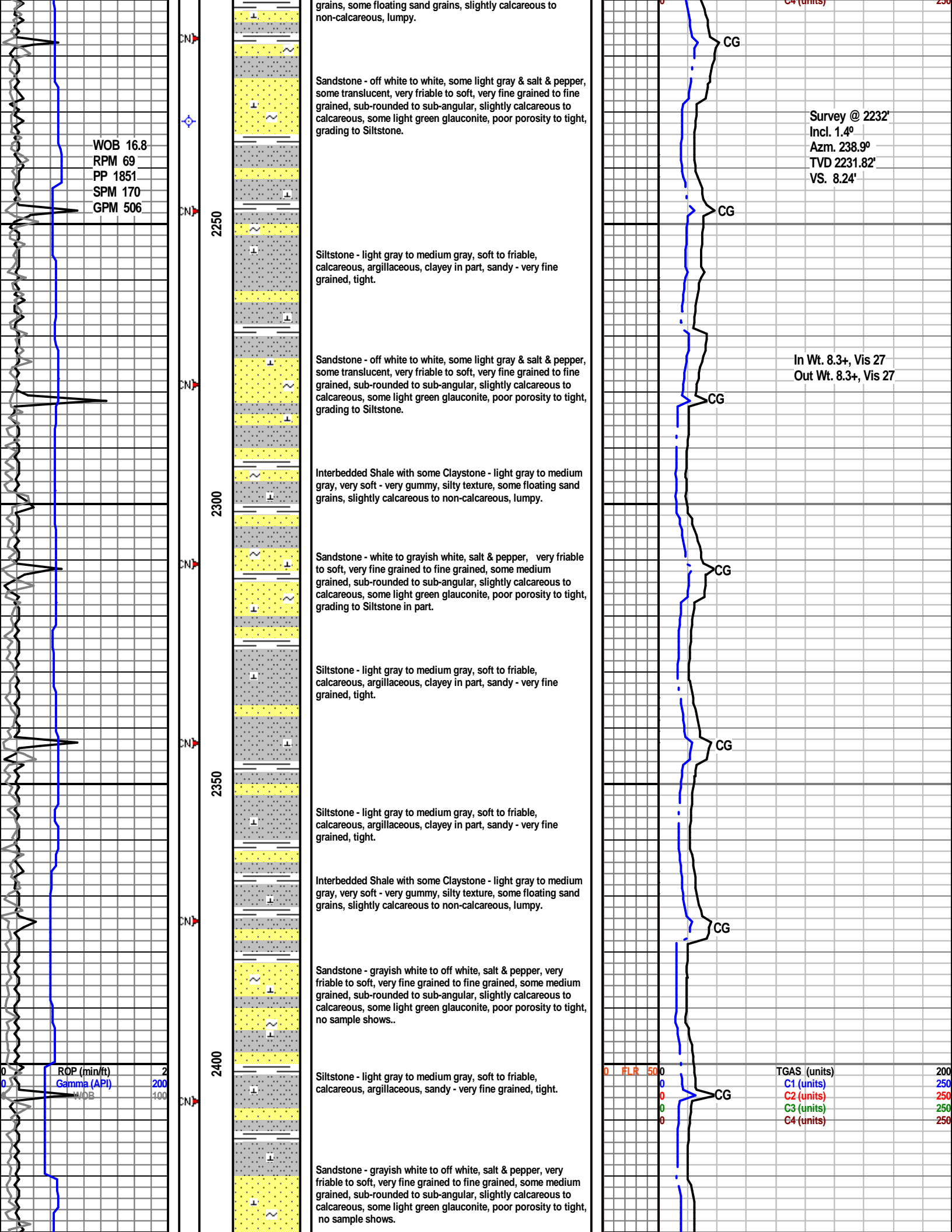












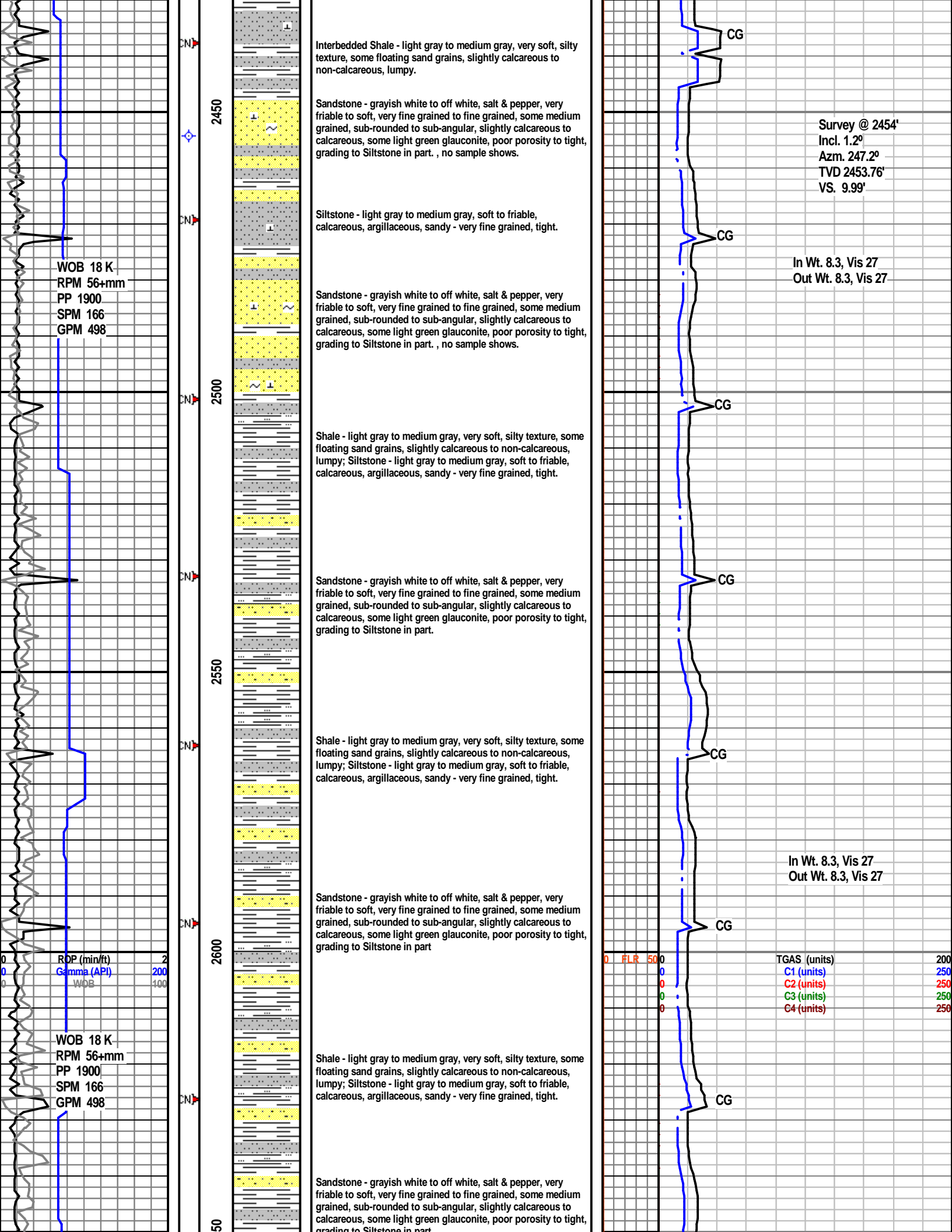
WOB 16.8
RPM 69
PP 1851
SPM 170
GPM 506

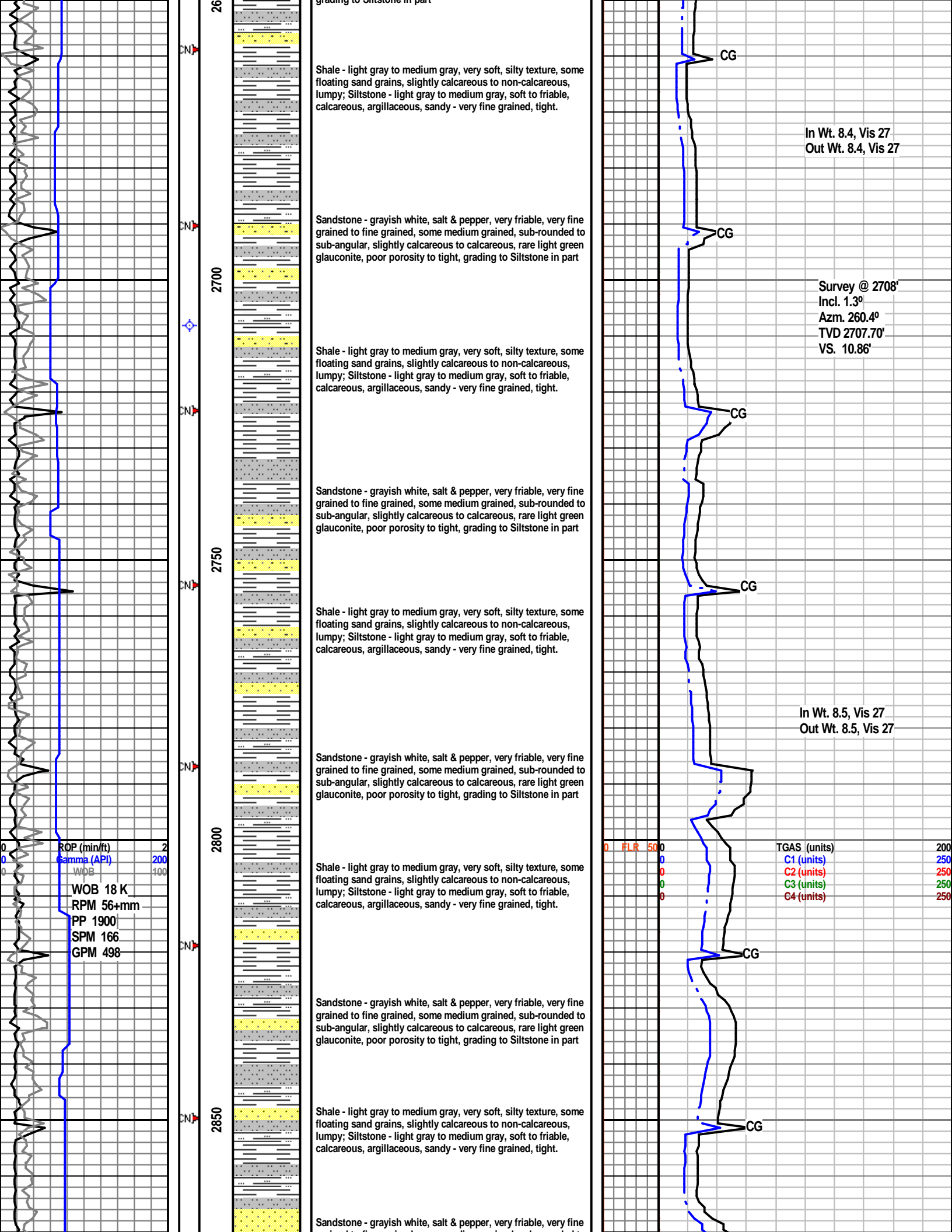
Survey @ 2232'
Incl. 1.4°
Azm. 238.9°
TVD 2231.82'
VS. 8.24'

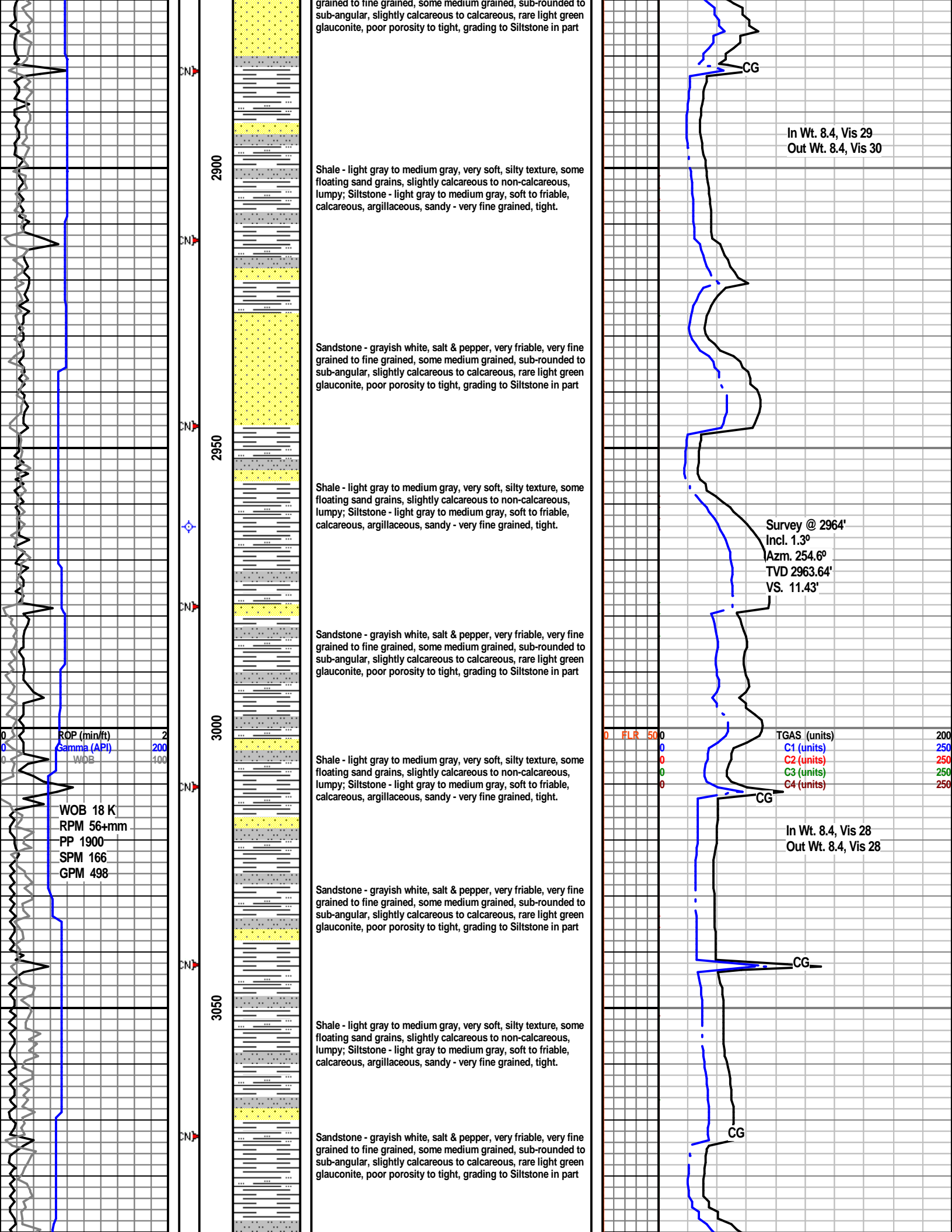
In Wt. 8.3+, Vis 27
Out Wt. 8.3+, Vis 27

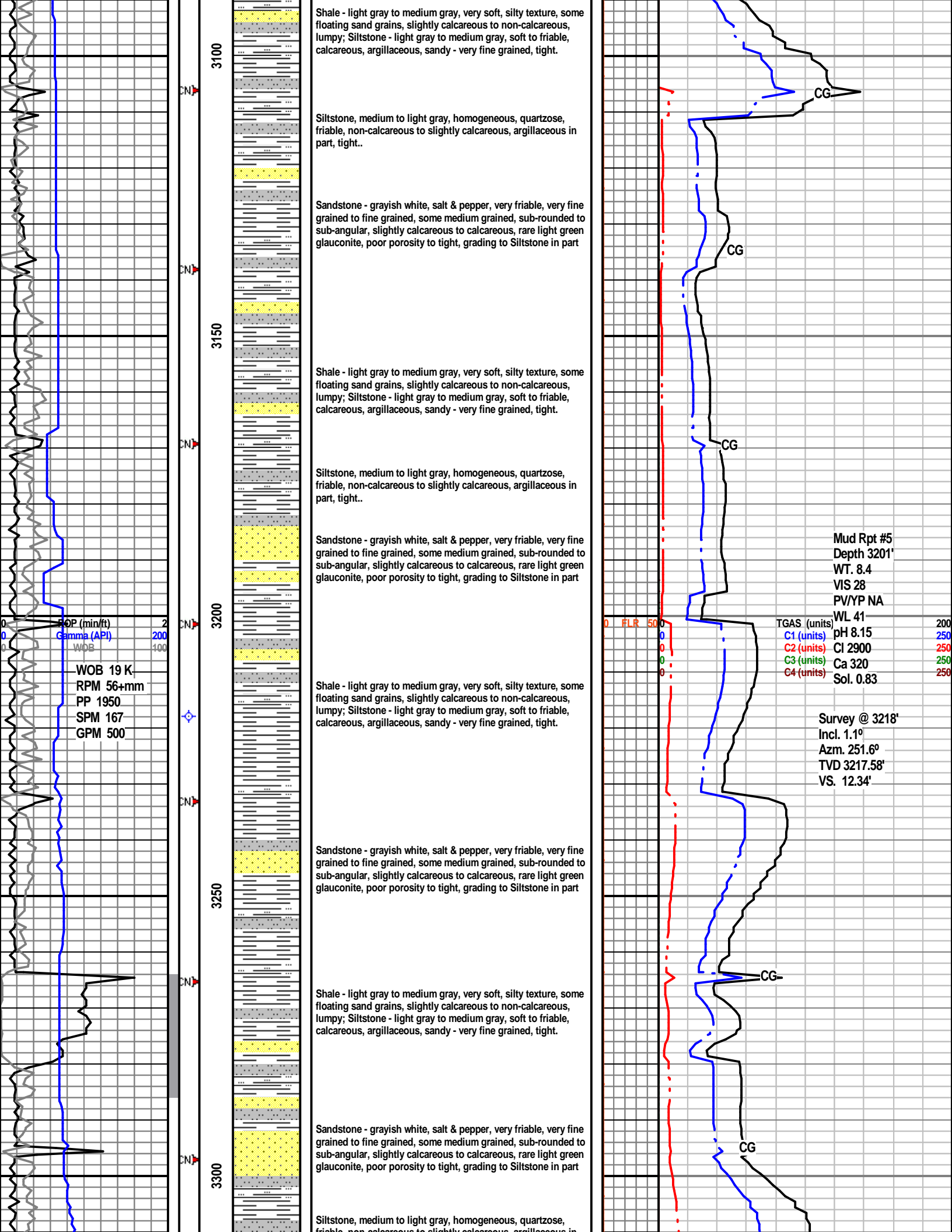
ROP (min/ft)
Gamma (API)
WOB

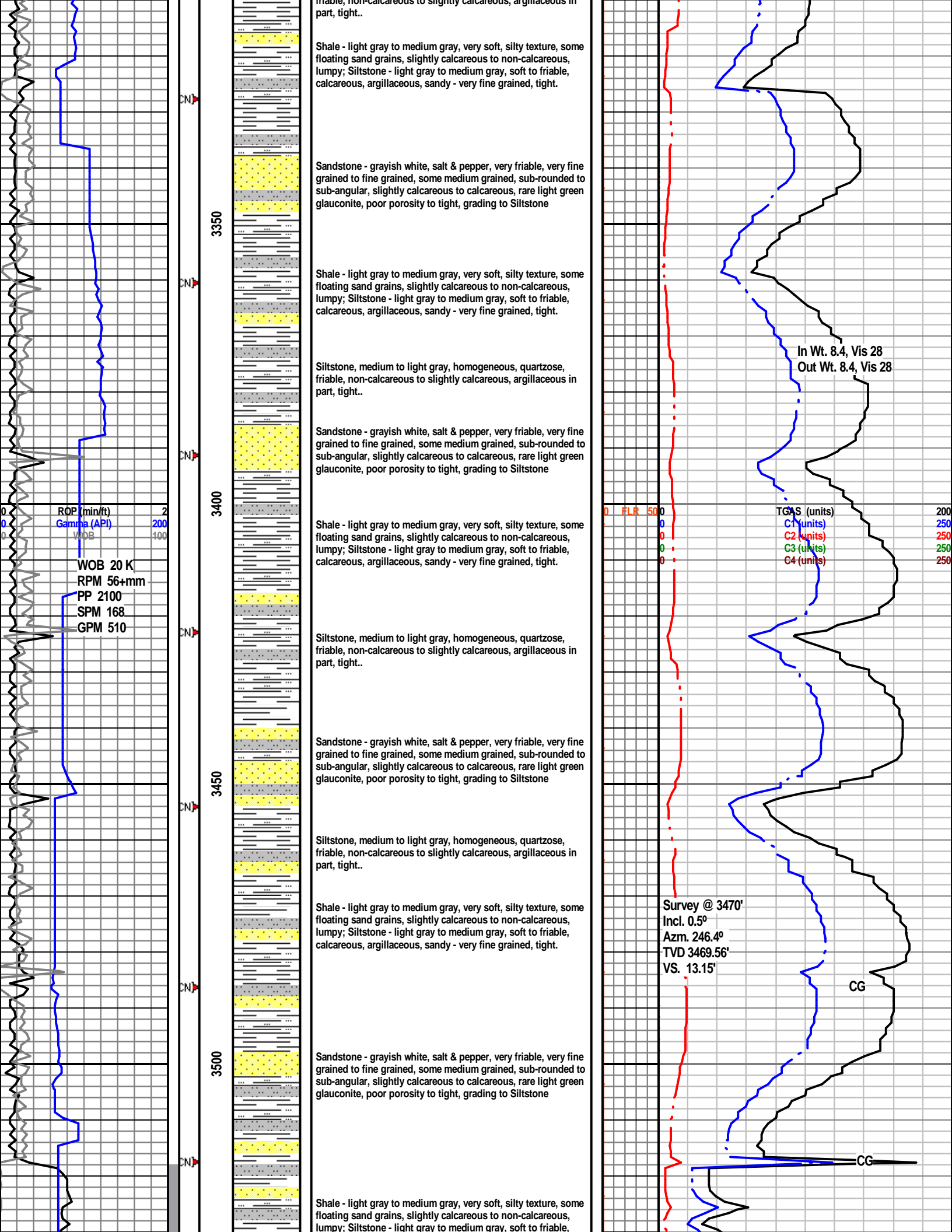
TGAS (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

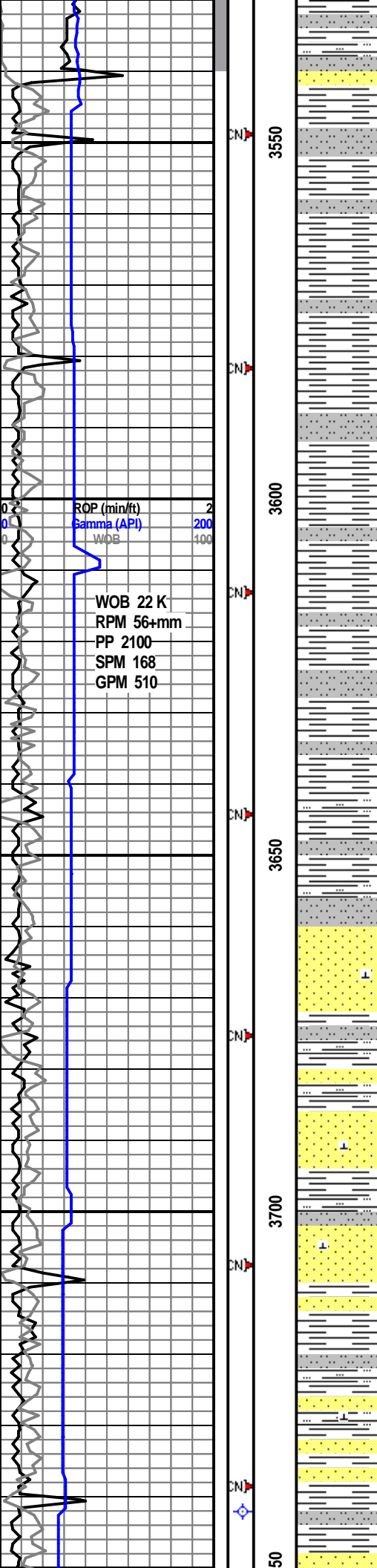












calcareous, argillaceous, sandy - very fine grained, tight.

Siltstone, medium to light gray, homogeneous, quartzose, friable, non-calcareous to slightly calcareous, argillaceous in part, tight..

Shale - light gray to medium gray, very soft, silty texture, some floating sand grains, slightly calcareous to non-calcareous, lumpy; Siltstone - light gray to medium gray, soft to friable, calcareous, argillaceous, sandy - very fine grained, tight.

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Terry (Sussex) Sandstone 3660 Ft. MD, sample top

Sandstone - salt & pepper, grayish white, very friable, very fine grained to fine grained, some medium grained, sub-rounded to sub-angular, slightly calcareous to calcareous, rare light green glauconite, fair to poor porosity, no sample shows.

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Sandstone - salt & pepper, grayish white, very friable, very fine grained to fine grained, some medium grained, sub-rounded to sub-angular, slightly calcareous to calcareous, rare light green glauconite, fair to poor porosity, no sample shows.

Siltstone, medium to light gray, homogeneous, quartzose, friable, non-calcareous to slightly calcareous, argillaceous in part, tight..

In Wt. 8.4, Vis 28
Out Wt. 8.4, Vis 28

CG

0 FLR 500

TGAS (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

200
250
250
250
250

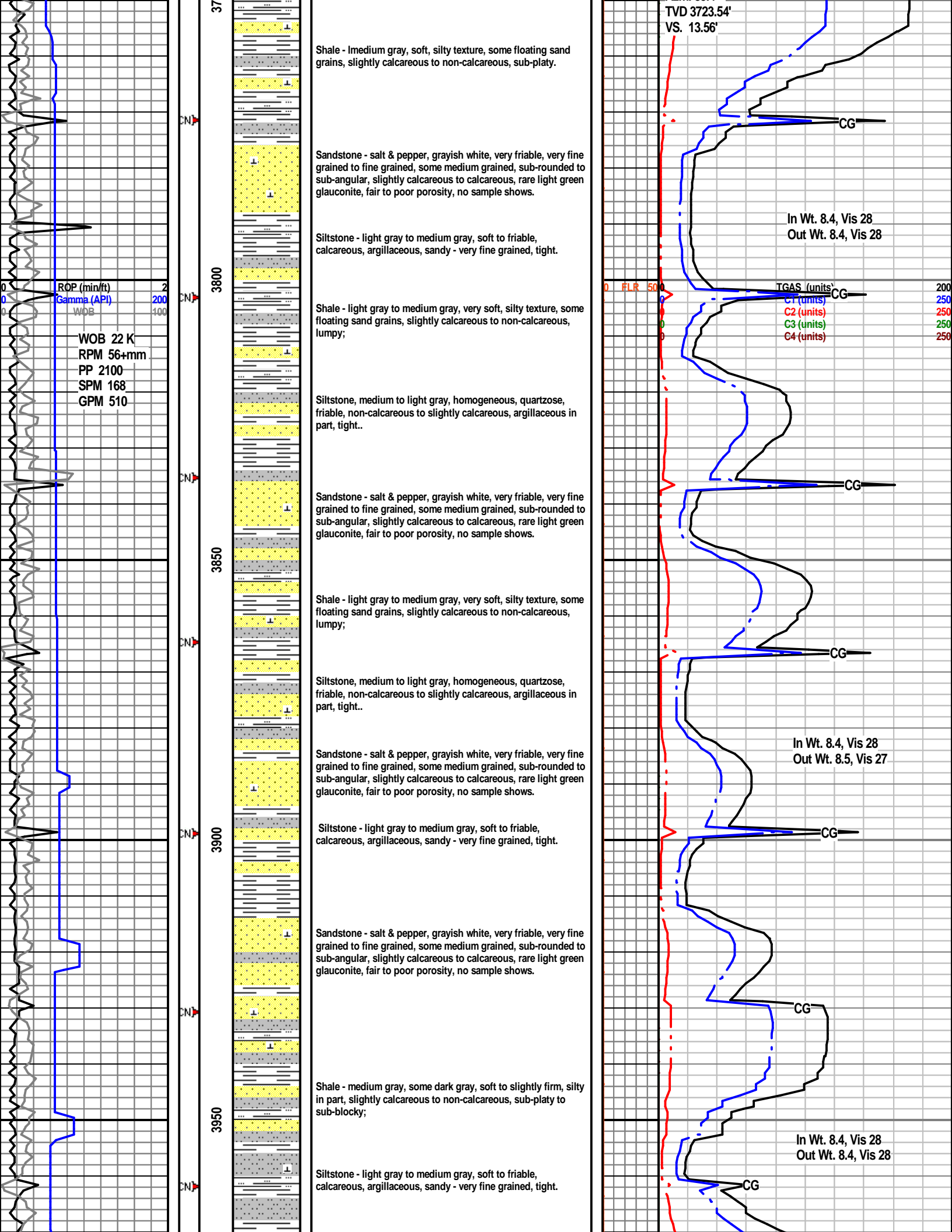
CG

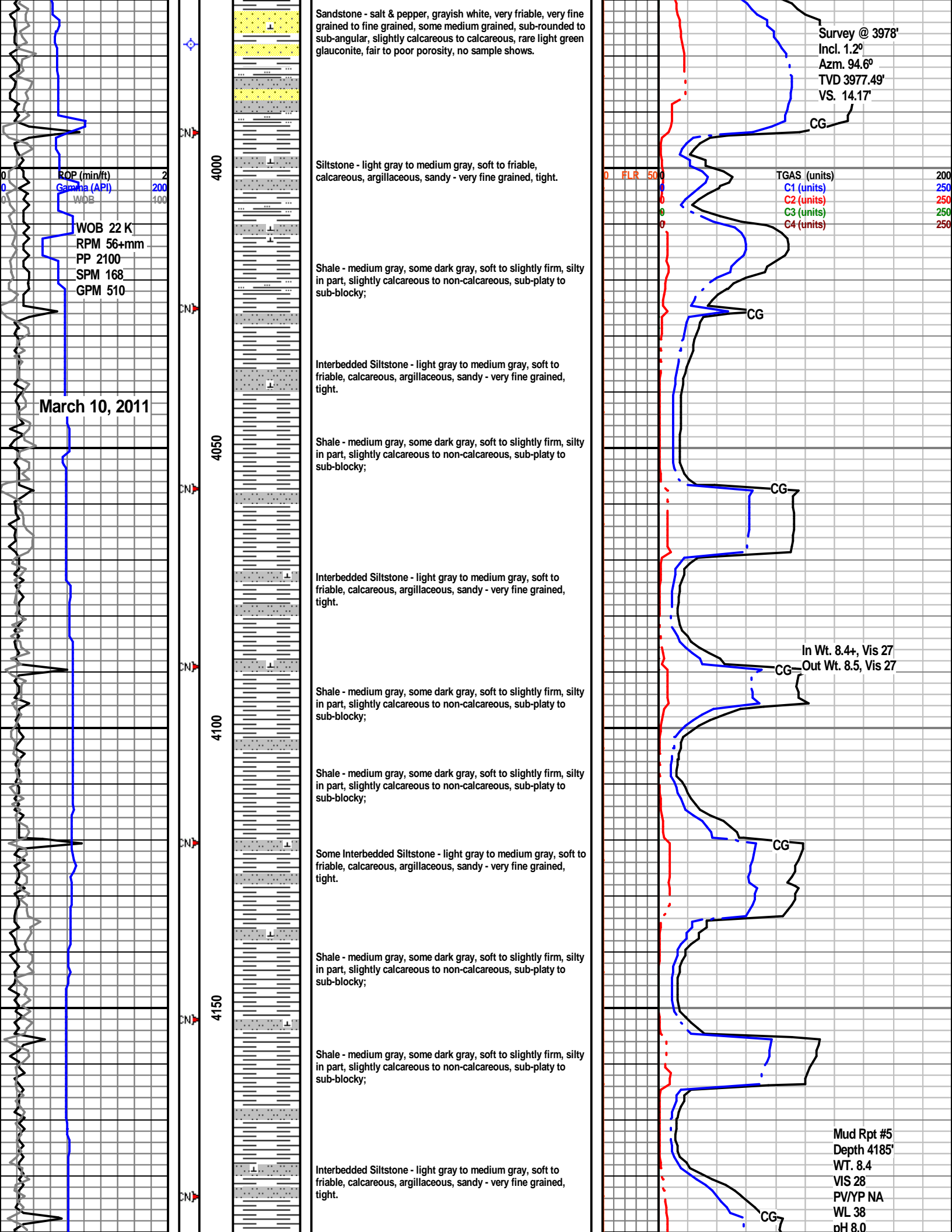
CG

In Wt. 8.4, Vis 28
Out Wt. 8.4, Vis 28

CG

Survey @ 3742'
Incl. 1.1°
Az. 85.4°





Sandstone - salt & pepper, grayish white, very friable, very fine grained to fine grained, some medium grained, sub-rounded to sub-angular, slightly calcareous to calcareous, rare light green glauconite, fair to poor porosity, no sample shows.

Siltstone - light gray to medium gray, soft to friable, calcareous, argillaceous, sandy - very fine grained, tight.

Shale - medium gray, some dark gray, soft to slightly firm, silty in part, slightly calcareous to non-calcareous, sub-platy to sub-blocky;

Interbedded Siltstone - light gray to medium gray, soft to friable, calcareous, argillaceous, sandy - very fine grained, tight.

Shale - medium gray, some dark gray, soft to slightly firm, silty in part, slightly calcareous to non-calcareous, sub-platy to sub-blocky;

Interbedded Siltstone - light gray to medium gray, soft to friable, calcareous, argillaceous, sandy - very fine grained, tight.

Shale - medium gray, some dark gray, soft to slightly firm, silty in part, slightly calcareous to non-calcareous, sub-platy to sub-blocky;

Shale - medium gray, some dark gray, soft to slightly firm, silty in part, slightly calcareous to non-calcareous, sub-platy to sub-blocky;

Some Interbedded Siltstone - light gray to medium gray, soft to friable, calcareous, argillaceous, sandy - very fine grained, tight.

Shale - medium gray, some dark gray, soft to slightly firm, silty in part, slightly calcareous to non-calcareous, sub-platy to sub-blocky;

Shale - medium gray, some dark gray, soft to slightly firm, silty in part, slightly calcareous to non-calcareous, sub-platy to sub-blocky;

Interbedded Siltstone - light gray to medium gray, soft to friable, calcareous, argillaceous, sandy - very fine grained, tight.

Survey @ 3978'
Incl. 1.2°
Azm. 94.6°
TVD 3977.49'
VS. 14.17'

CG

TGAS (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

CG

CG

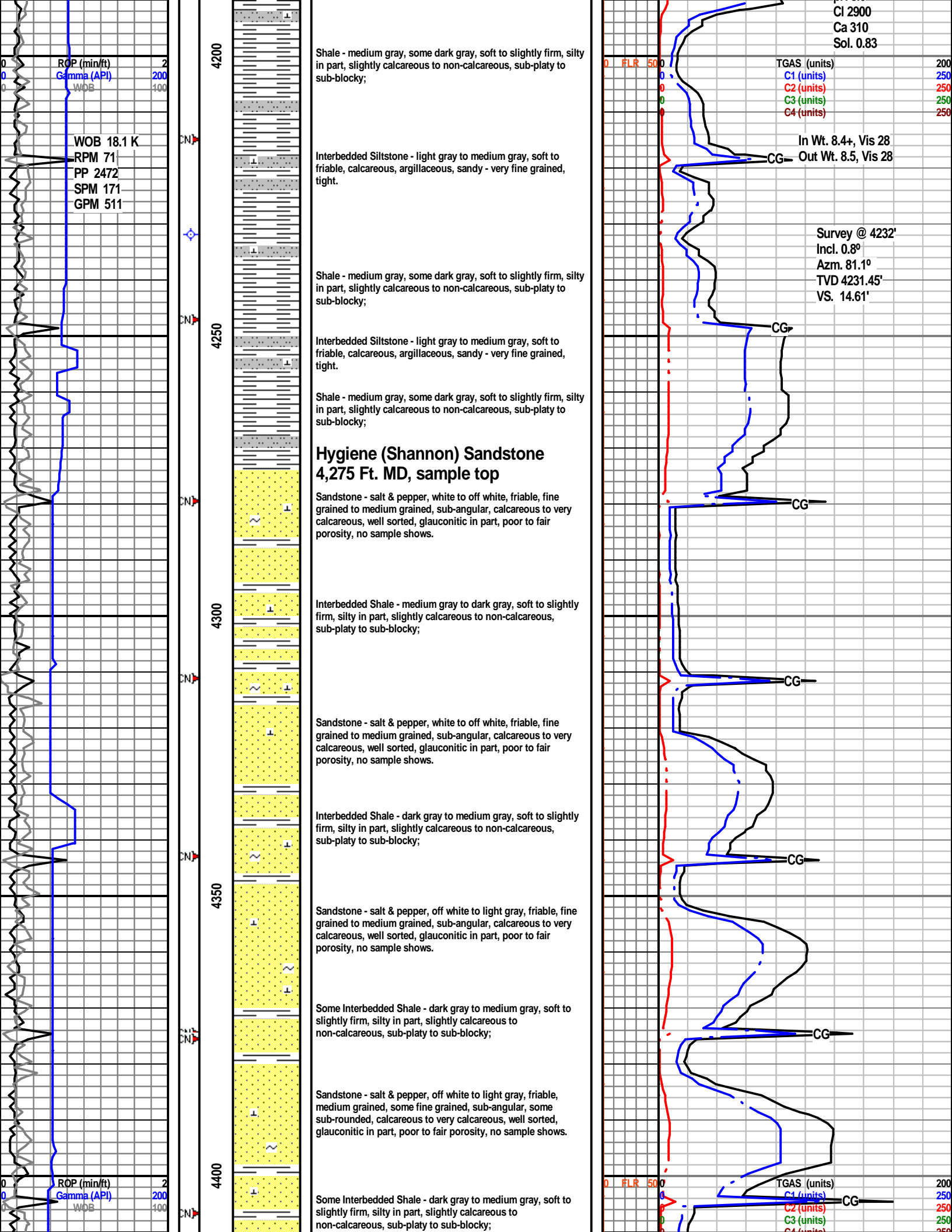
CG

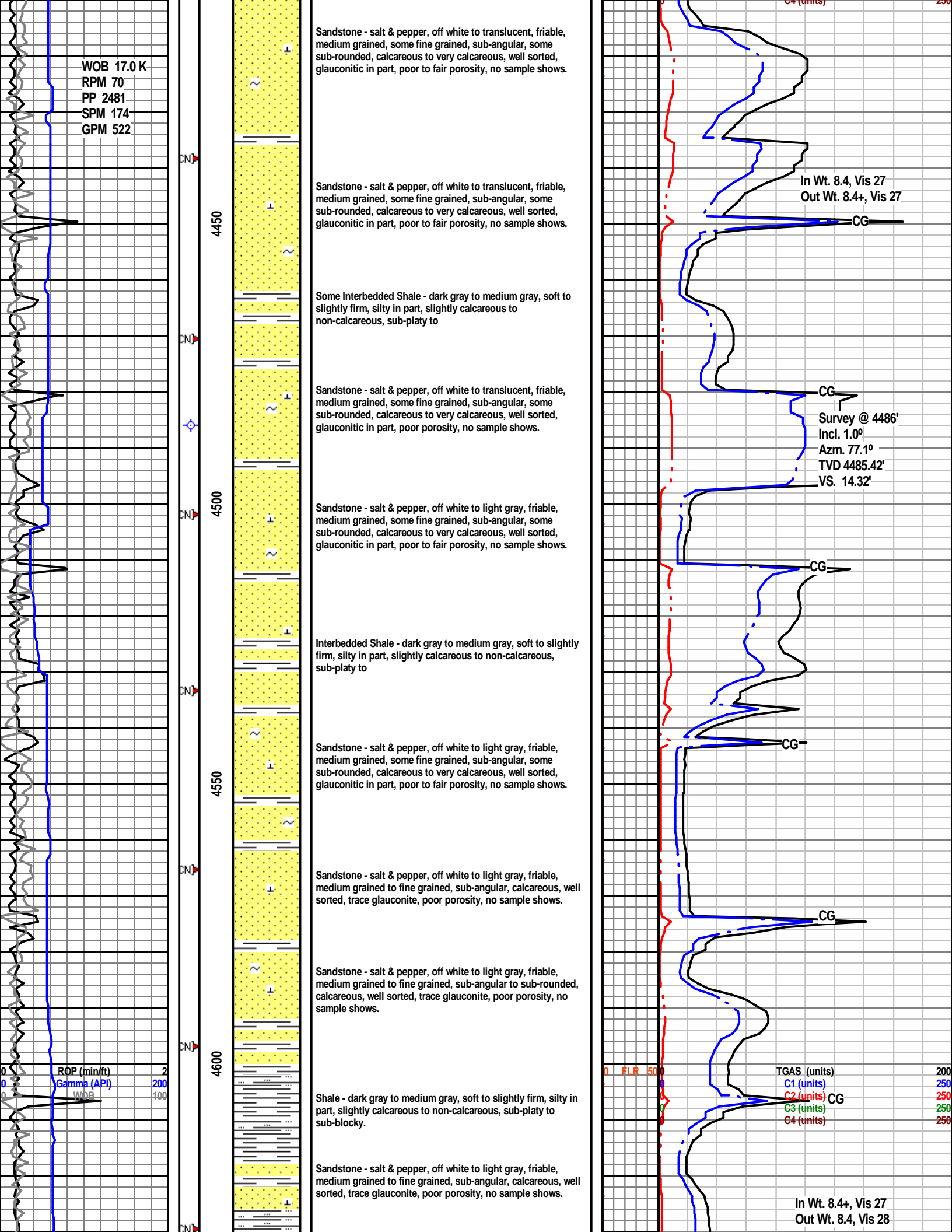
In Wt. 8.4+, Vis 27
Out Wt. 8.5, Vis 27

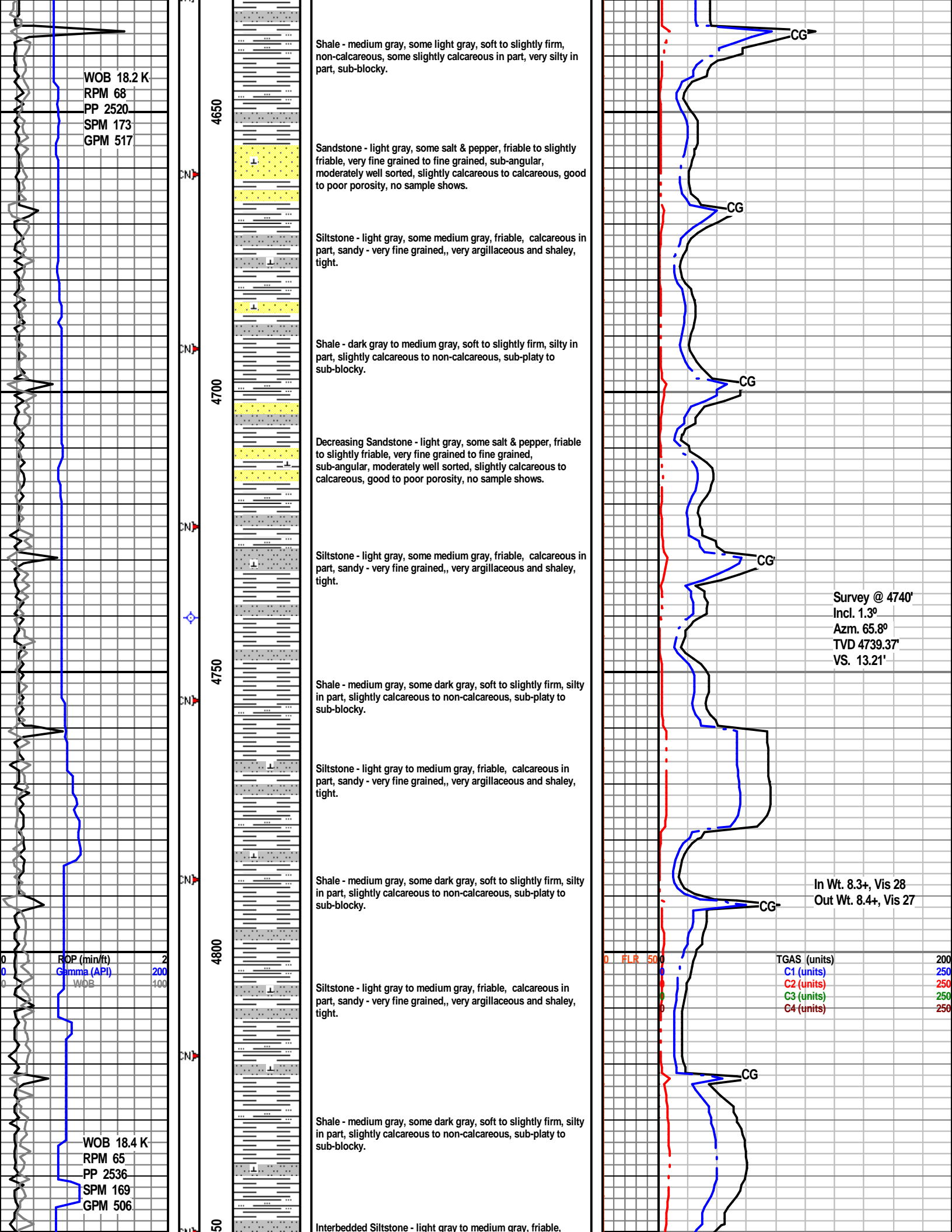
CG

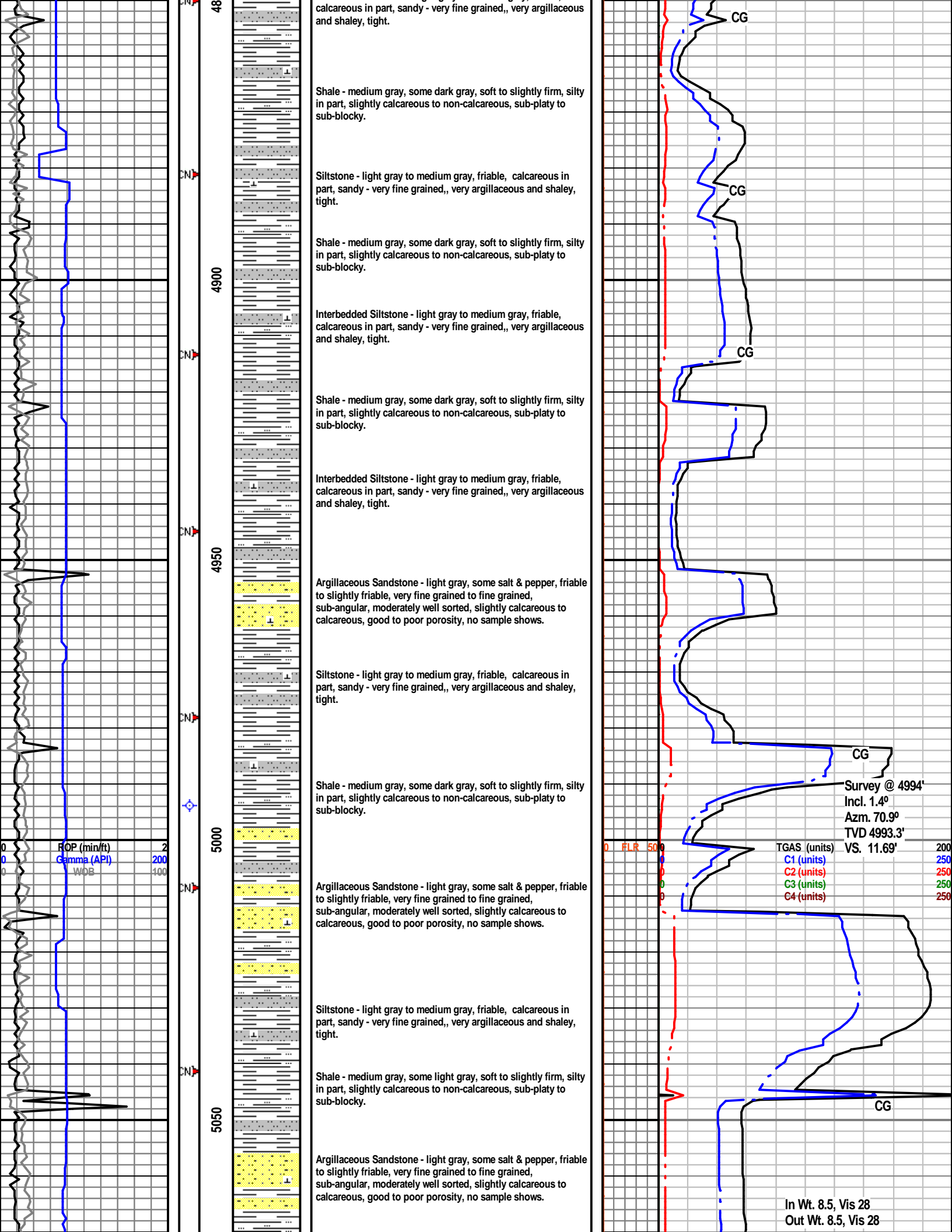
CG

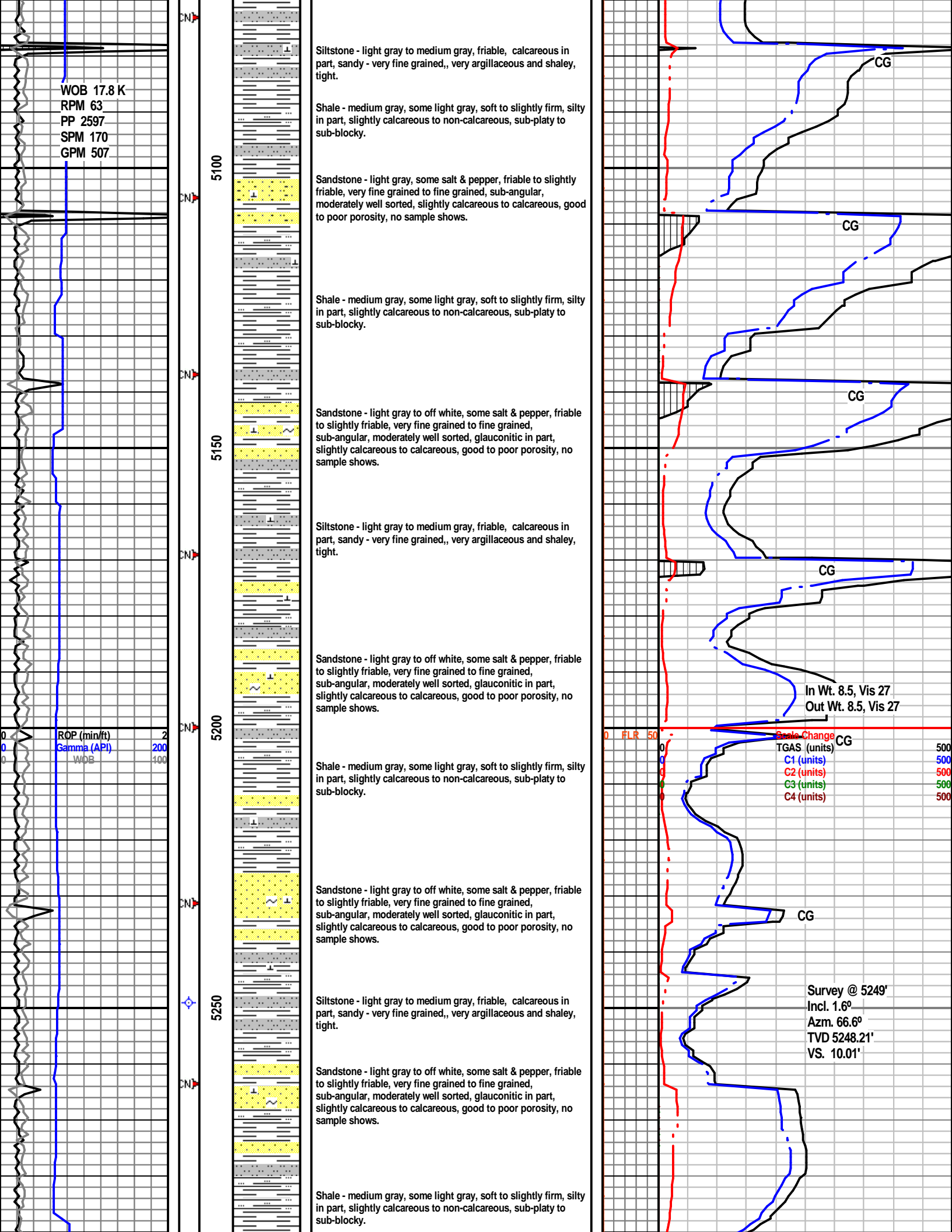
Mud Rpt #5
Depth 4185'
WT. 8.4
VIS 28
PV/YP NA
WL 38
pH 8.0

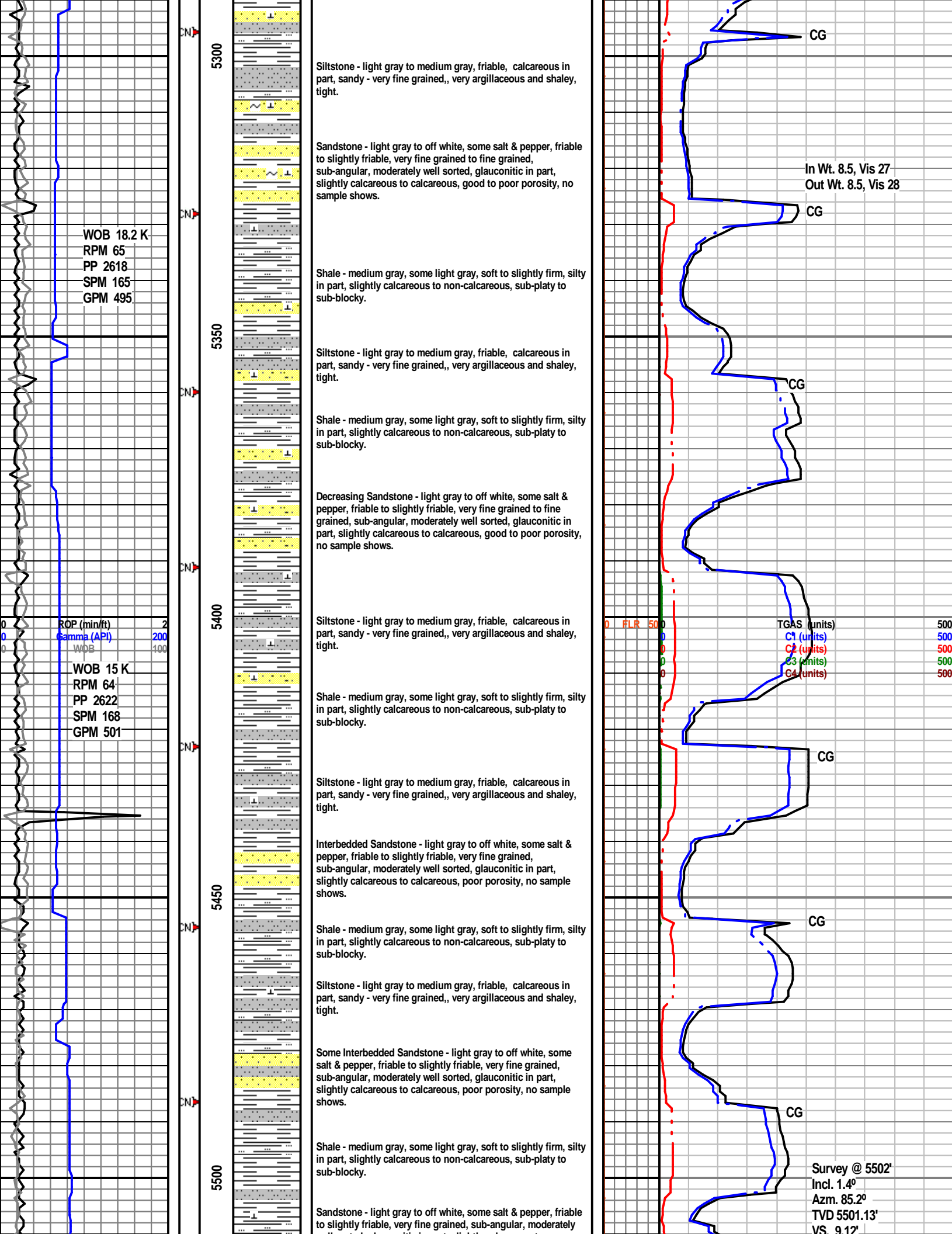


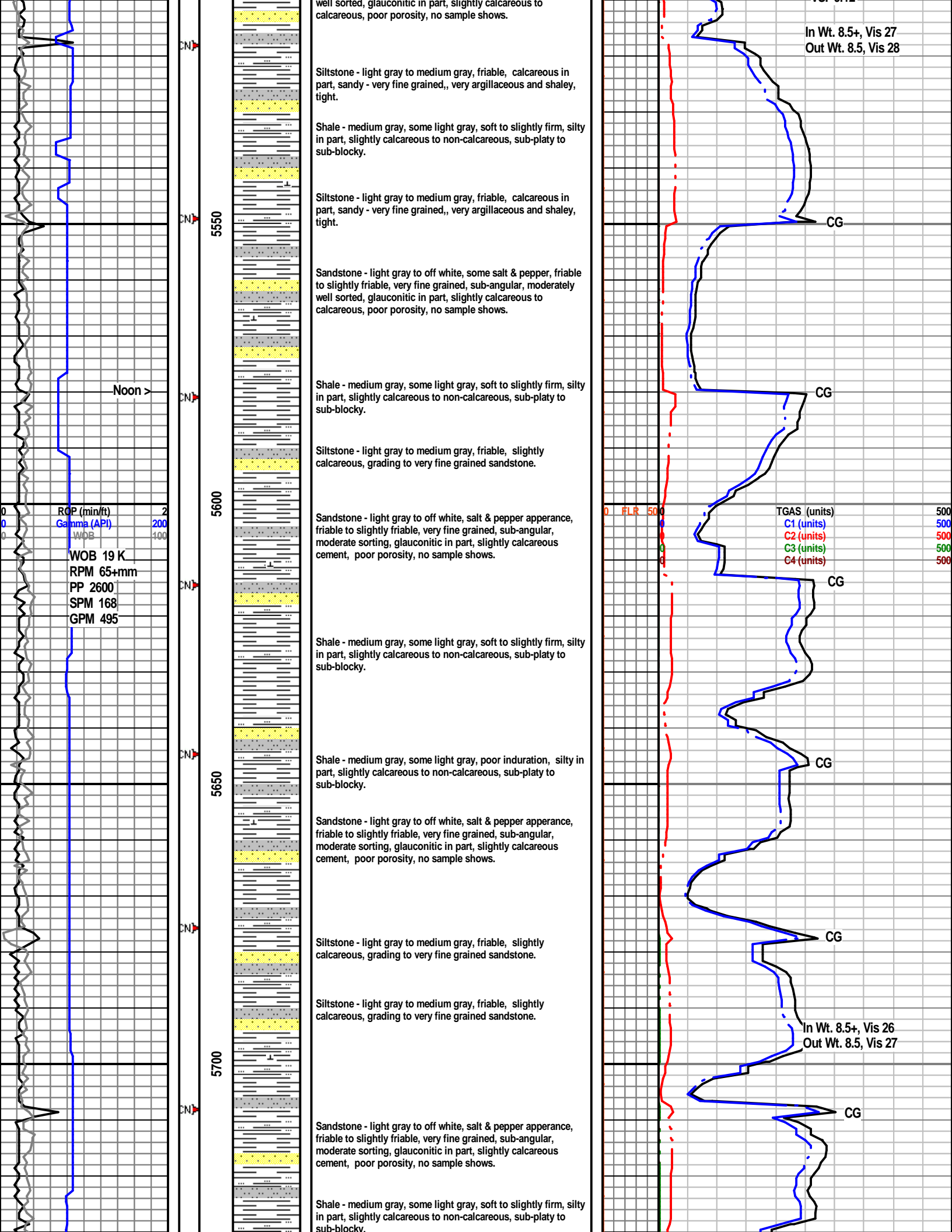


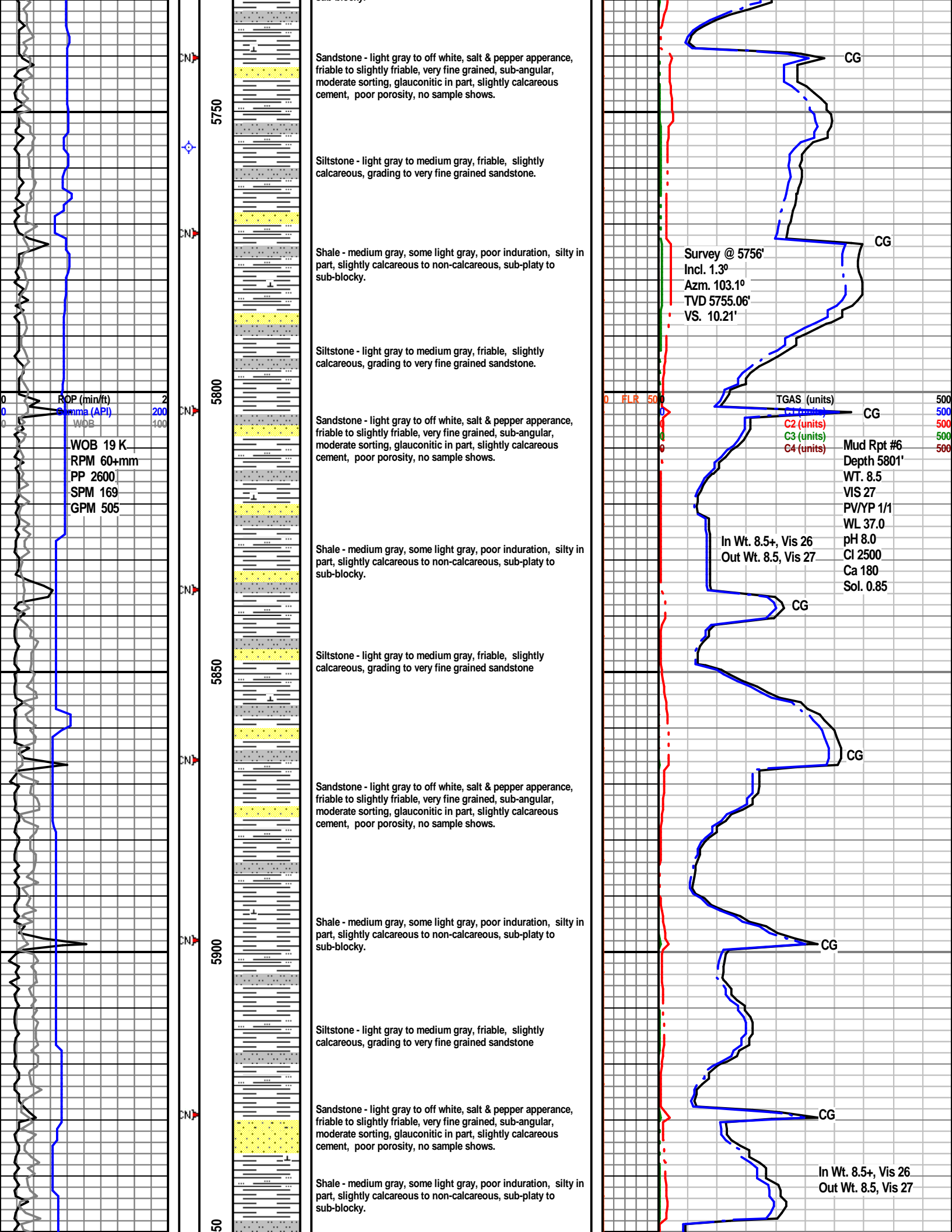


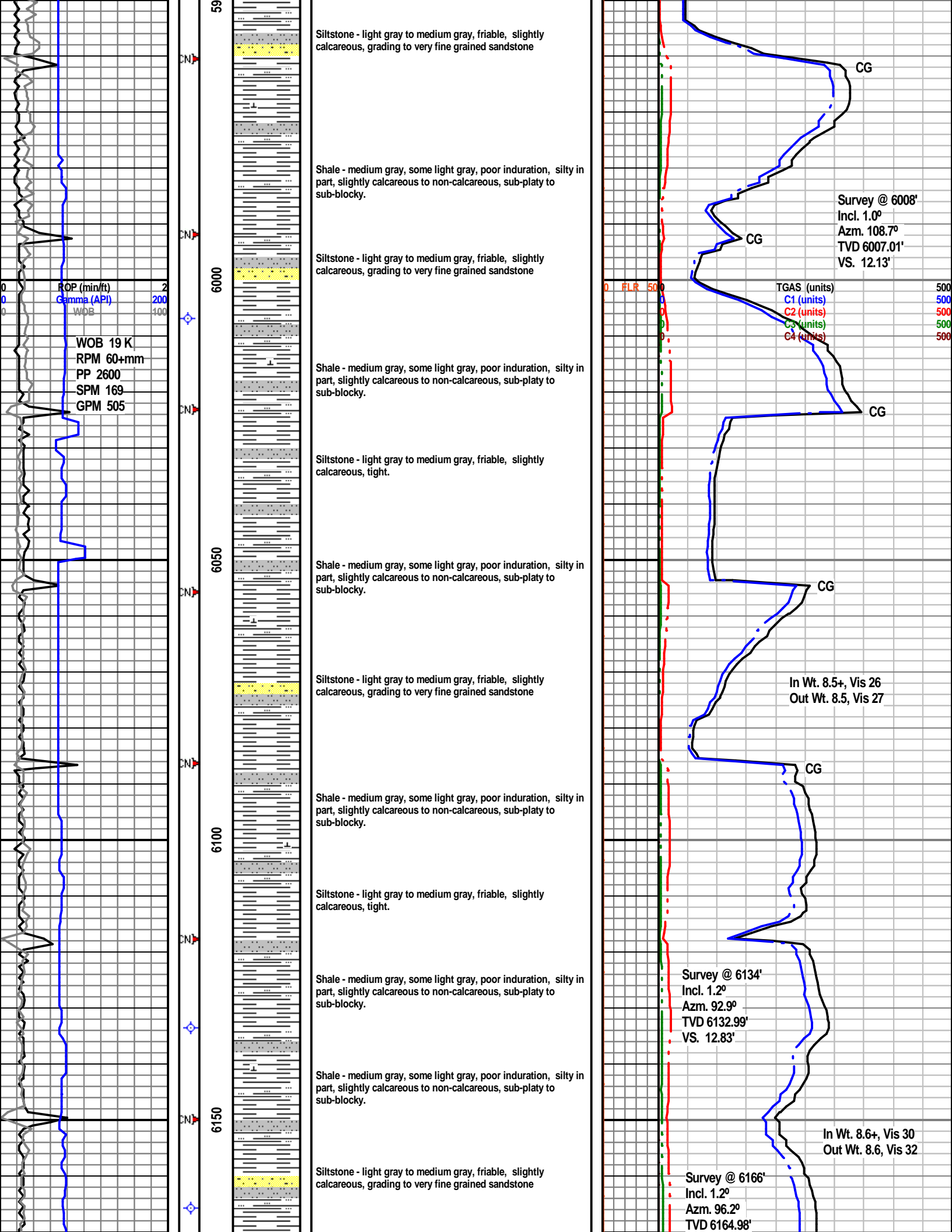


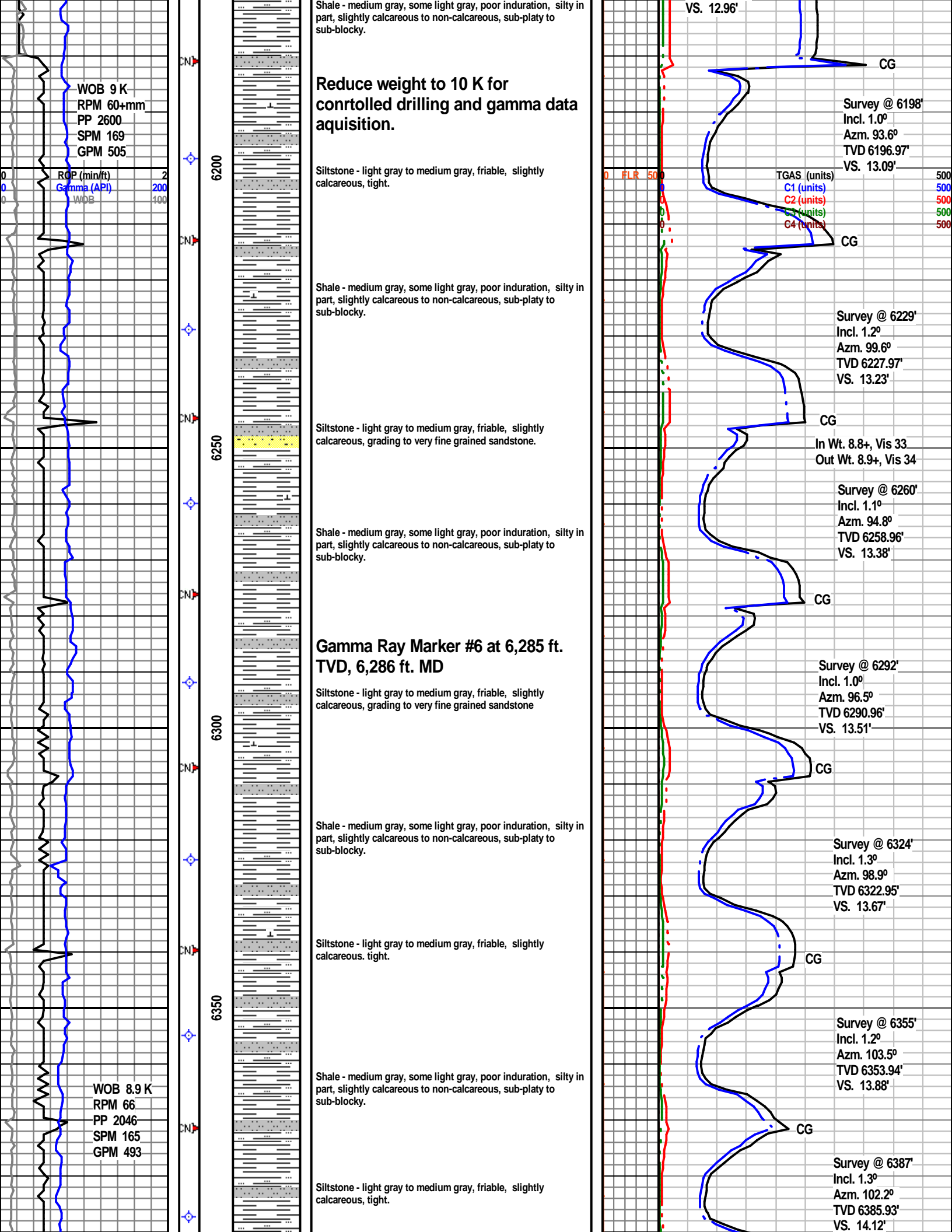


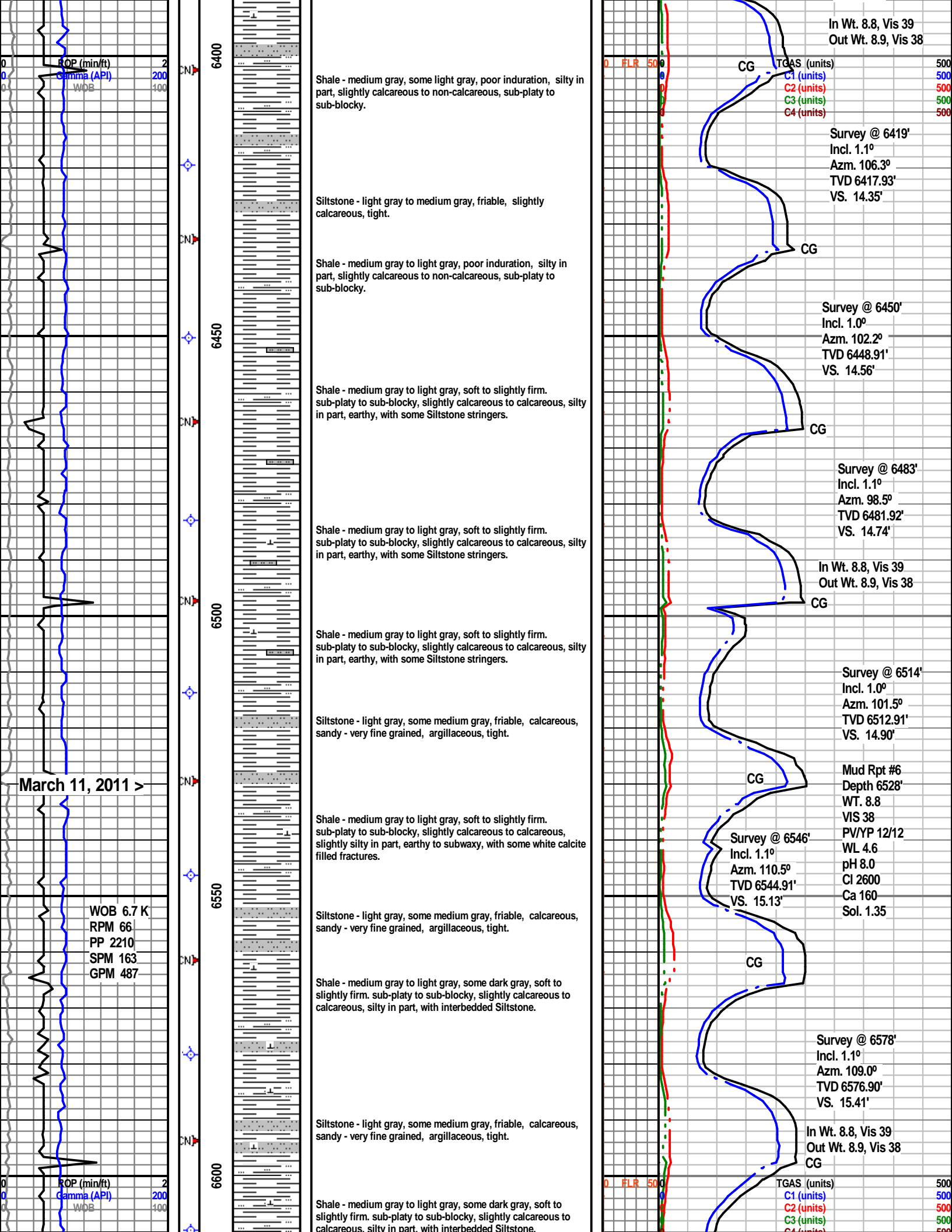


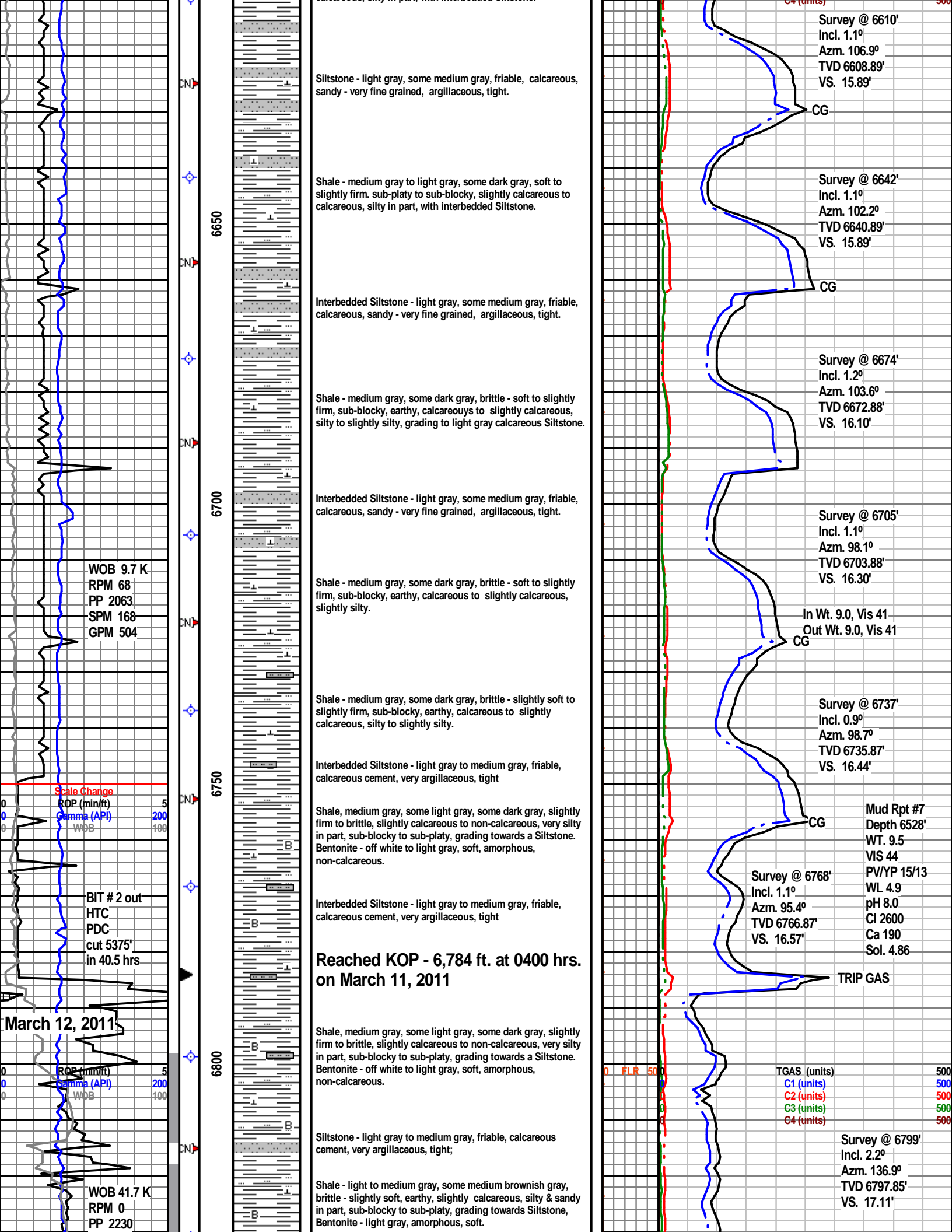


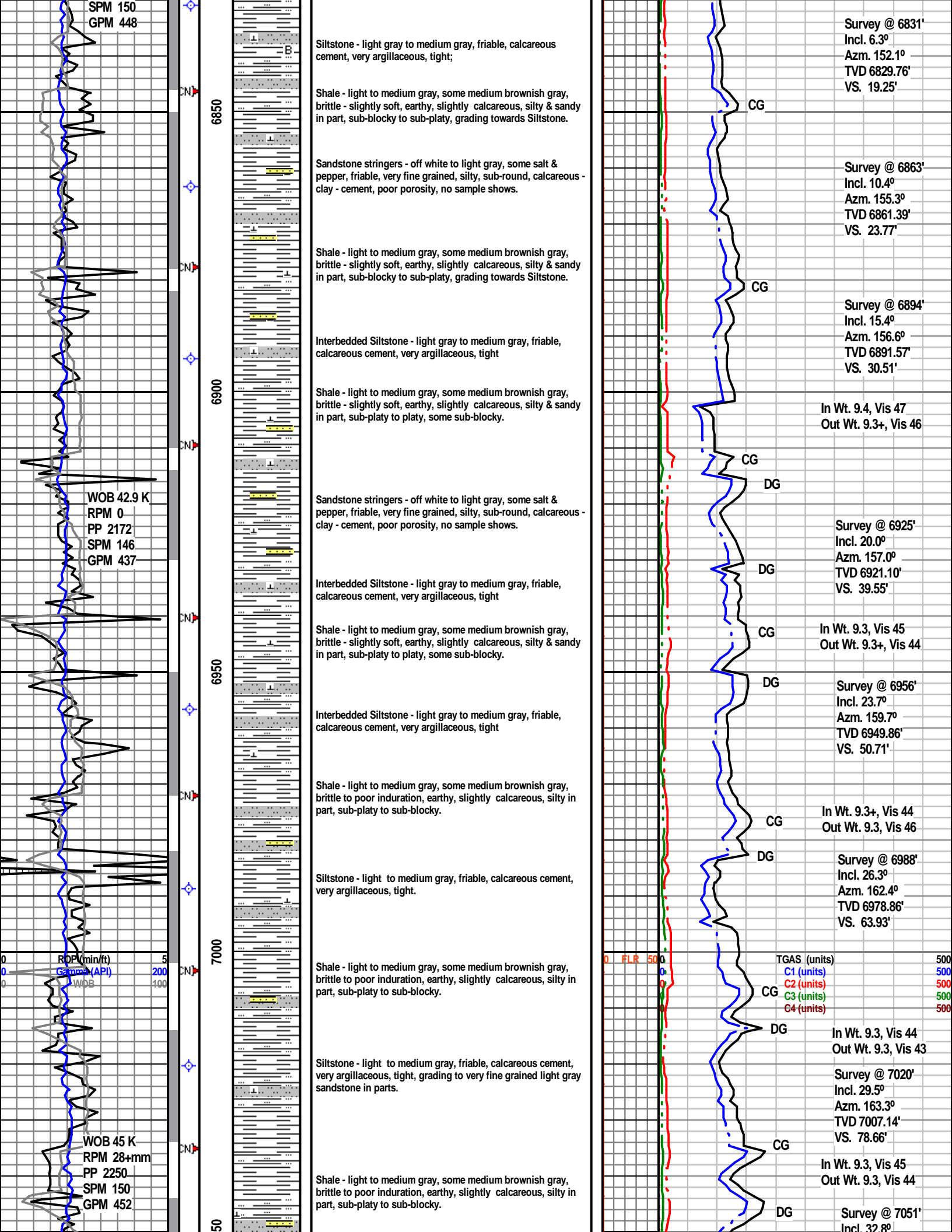


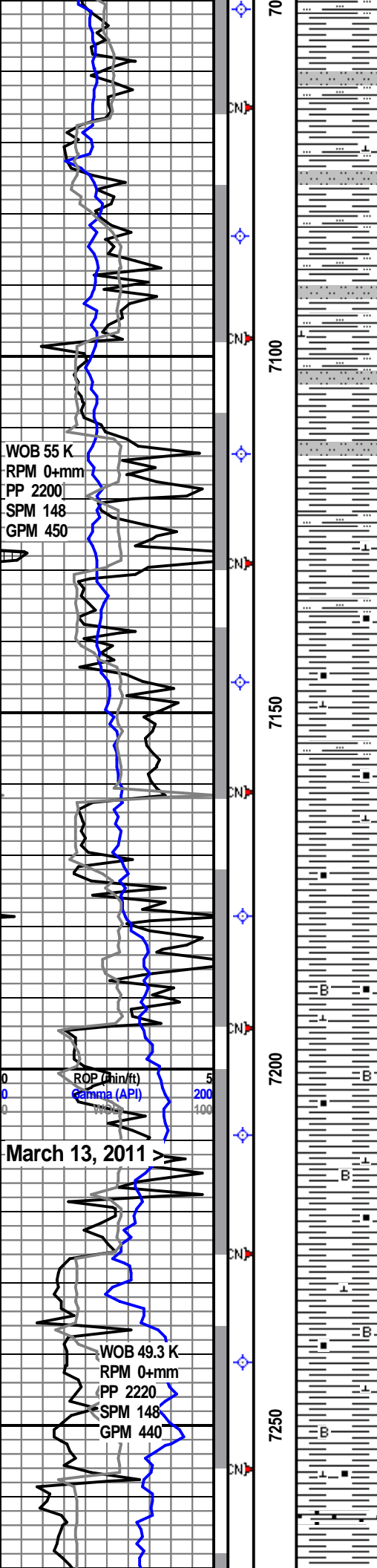












Siltstone - light to medium gray, friable, calcareous cement, very argillaceous, tight, grading to very fine grained light gray sandstone in parts.

Shale - light to medium gray, some medium brownish gray, brittle to poor induration, earthy, slightly calcareous, silty in part, sub-platy to sub-blocky.

Shale - medium to dark gray, poor induration, slightly to non-calcareous, earthy & slightly silty to silty, sub-platy to platy, some splintery & fissile.

Siltstone - light to medium gray, friable, calcareous cement, very argillaceous, tight, grading to very fine grained light gray sandstone in parts.

Shale - light to medium gray, some medium brownish gray, brittle to poor induration, earthy, slightly calcareous, silty in part, sub-platy to sub-blocky.

Shale - dark gray to medium gray, brittle - slightly soft to slightly firm, slightly calcareous in part, carbonaceous, silty in part, platy to sub-platy to fissile, splintery.

Shale - dark gray to medium gray, brittle - slightly soft to slightly firm, slightly calcareous in part, carbonaceous, silty in part, platy to sub-platy to fissile, splintery.

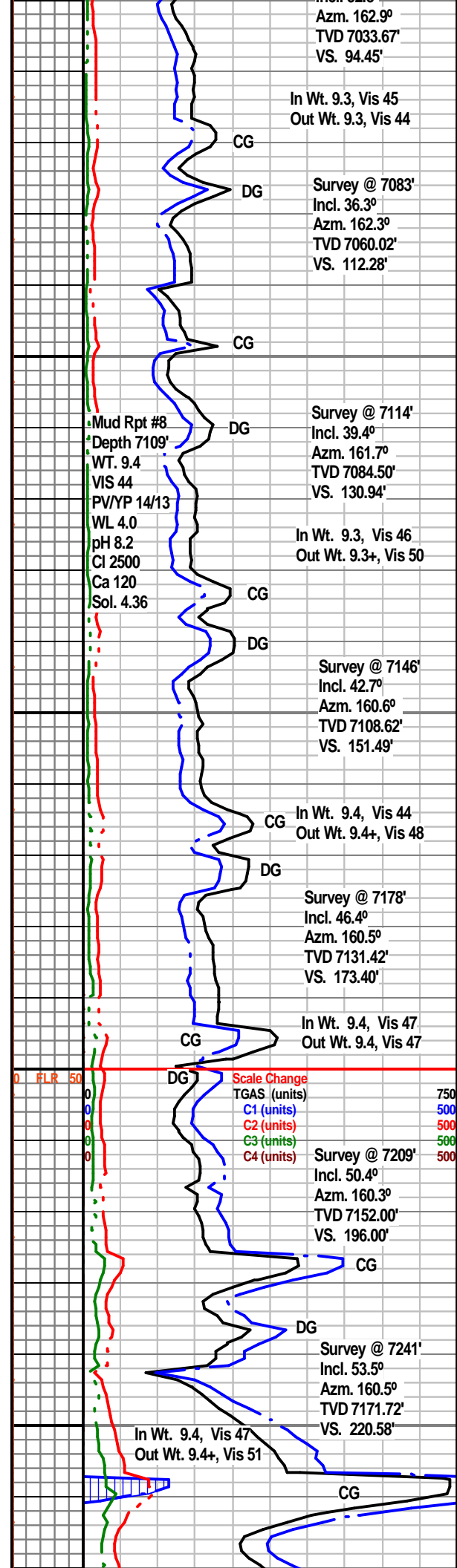
SHARON SPRINGS 7182' MD; 7134' TVD

Shale - dark gray to medium brownish gray, some black, brittle - slightly soft to slightly firm, slightly calcareous in part, carbonaceous, silty in part, platy to sub-platy to fissile, splintery, Bentonite - off white to light gray, firm, platy, non-calcareous.

Shale - dark gray to brownish gray, some black, brittle to slightly firm, slightly calcareous, earthy & slightly silty, slightly carbonaceous, micro-micaceous, sub-platy to platy, some splintery & fissile. Bentonite - off white to light gray, firm, platy, non-calcareous.

Shale - dark gray to brownish gray, some black, brittle to slightly firm, slightly calcareous, earthy & slightly silty, slightly carbonaceous to carbonaceous, micro-micaceous, sub-platy to platy, some splintery & fissile. Bentonite - off white to light gray, firm, platy, non-calcareous.

Shale - dark gray to brownish gray, some black, brittle to slightly firm, slightly calcareous, earthy & slightly silty, carbonaceous, micro-micaceous, sub-platy to platy, some splintery & fissile. Bentonite - off white to light gray, firm, platy, non-calcareous.



Azm. 162.9°
TVD 7033.67'
VS. 94.45'

In Wt. 9.3, Vis 45
Out Wt. 9.3, Vis 44

Survey @ 7083'
Incl. 36.3°
Azm. 162.3°
TVD 7060.02'
VS. 112.28'

Survey @ 7114'
Incl. 39.4°
Azm. 161.7°
TVD 7084.50'
VS. 130.94'

In Wt. 9.3, Vis 46
Out Wt. 9.3+, Vis 50

Survey @ 7146'
Incl. 42.7°
Azm. 160.6°
TVD 7108.62'
VS. 151.49'

In Wt. 9.4, Vis 44
Out Wt. 9.4+, Vis 48

Survey @ 7178'
Incl. 46.4°
Azm. 160.5°
TVD 7131.42'
VS. 173.40'

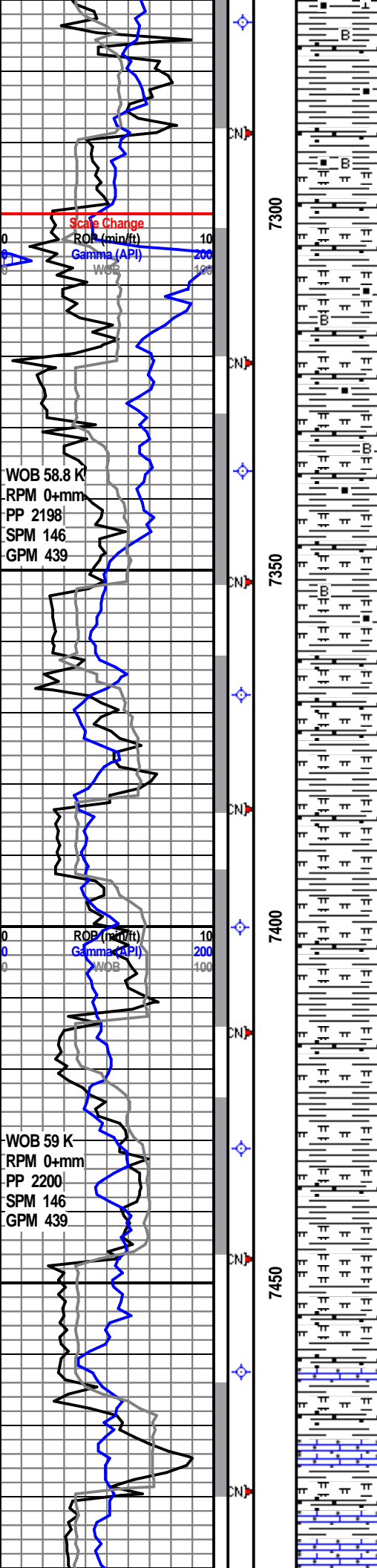
In Wt. 9.4, Vis 47
Out Wt. 9.4, Vis 47

Scale Change
TGAS (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

Survey @ 7209'
Incl. 50.4°
Azm. 160.3°
TVD 7152.00'
VS. 196.00'

Survey @ 7241'
Incl. 53.5°
Azm. 160.5°
TVD 7171.72'
VS. 220.58'

In Wt. 9.4, Vis 47
Out Wt. 9.4+, Vis 51



NIOBRARA Formation 7280 Ft. MD, 7195 Ft. TVD

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, mottled in part, brittle to soft, calcite inclusions, marly - very calcareous, very carbonaceous to carbonaceous, sub-platy to platy, some splintery & fissile, Bentonite - off white, firm, platy, non-calcareous.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, mottled in part, brittle to soft, calcite inclusions, marly - very calcareous, very carbonaceous to carbonaceous, sub-platy to platy, some splintery & fissile, Bentonite - off white to light gray, firm, platy to sub-platy, non-calcareous.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, mottled in part, brittle to soft, calcite inclusions, marly - very calcareous, very carbonaceous to carbonaceous, sub-platy to platy, some splintery & fissile, Bentonite - off white to light gray, firm, platy, non-calcareous.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, mottled in part, brittle to soft, calcite inclusions, marly - very calcareous, very carbonaceous to carbonaceous, sub-platy to platy, some fissile.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, poor induration, marly - very calcareous, very carbonaceous, sub-platy to platy, some splintery & fissile.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, poor induration, marly - very calcareous, very carbonaceous, sub-platy to sub blocky.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, mottled in part, poor induration, rare calcite inclusions, marly - very calcareous, very carbonaceous, sub-platy.

Carbonaceous shale/Marlstone, - dark gray to black some brownish gray, mottled in part, poor induration, rare calcite inclusions, marly - very calcareous, very carbonaceous, sub-platy.

Carbonaceous shale/Marlstone, - very dark gray to black some brownish gray, mottled in part, poor induration, marly - very calcareous, very carbonaceous, sub-platy to sub blocky.

NIOBARA "B" CHALK 7,461 ft. MD, 7,267 ft. TVD

Carbonaceous Chalk - medium gray to dark gray, mottled, soft, some brittle, earthy, very calcareous, slightly carbonaceous to carbonaceous, platy to sub-platy.

Shale/Chalk - dark gray to medium gray, some dark brownish black, mostly mottled, slightly firm to brittle to slightly soft

