



Company : Karoon Gas Pty Ltd

Well : Megascolides 2

Interval : 3.00 - 2156.94 meters

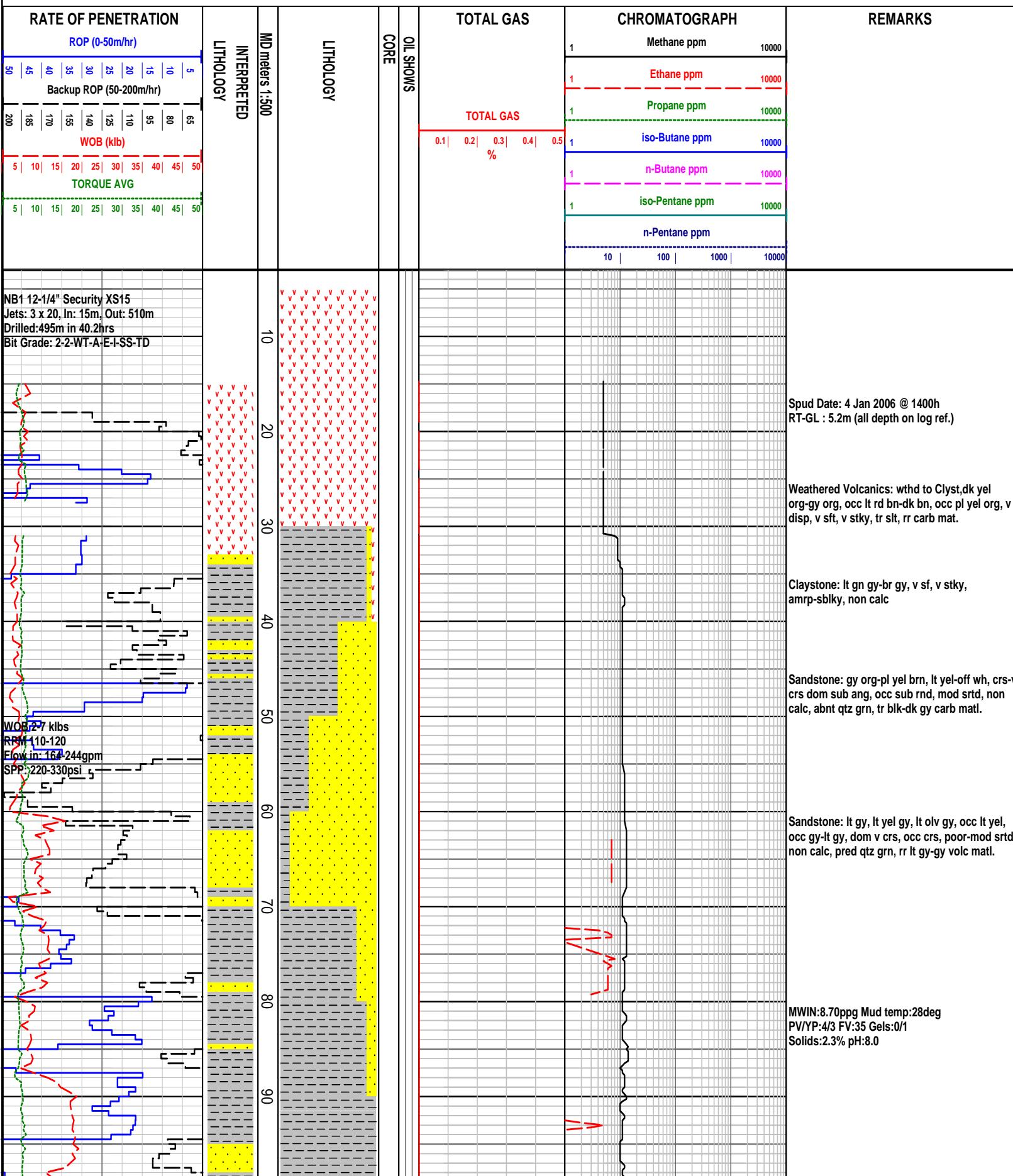
INTEQ



Created : 21/05/2007 9:57:31 AM

© 2010 Pearson Education, Inc., publishing as Pearson Addison Wesley.

FORMATION EVALUATION LOG



Claystone: It gn gy-med dk gy, v sf, v stky, amrp-blky, v silty i/p, tr carb matl

Claystone: It dk gy-med gn gy- It br gy, v sf, v stky, blky-blky, v silty i/p, tr carb mat

Sandstone: It gn gy-dk gy, occ It yel gy, vf-f, occ crs, poor-mod srtd, non calc, pred qtz grn, It gy-gy volc mat, tr carb mat, n vis por, n fluor

MWIN:8.90ppg Mud temp:35deg
PV/YP:8/13 FV:46 Gels:8/9
Solids:3.8% pH:8.3

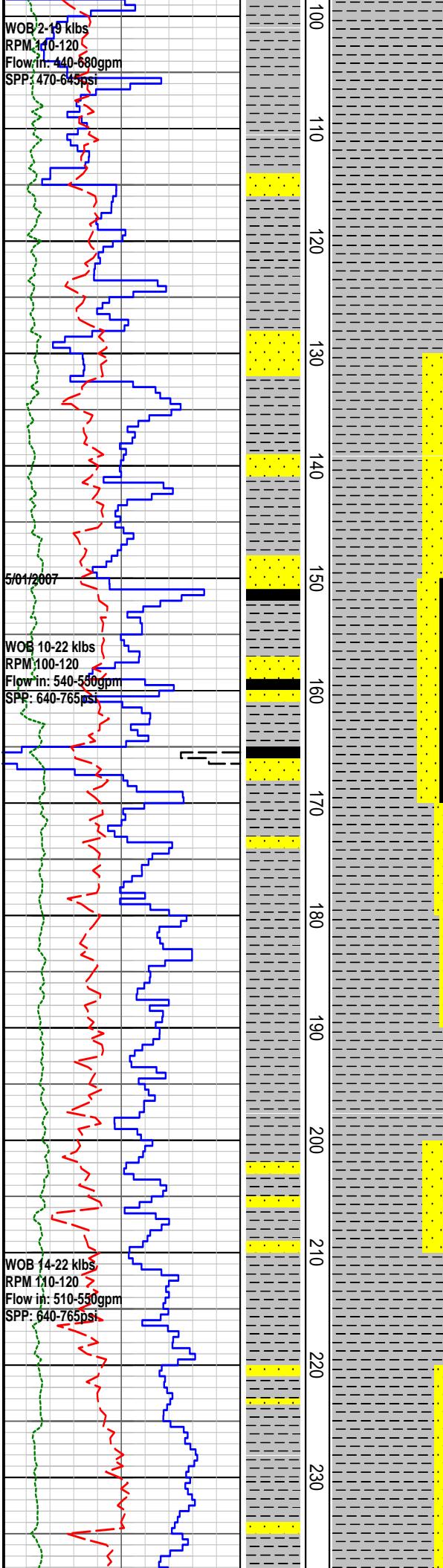
Coal: dk bn-blk, blky-blky, ea-sl sbvit lstr, sl arg i/p, sf-fm, brit i/p

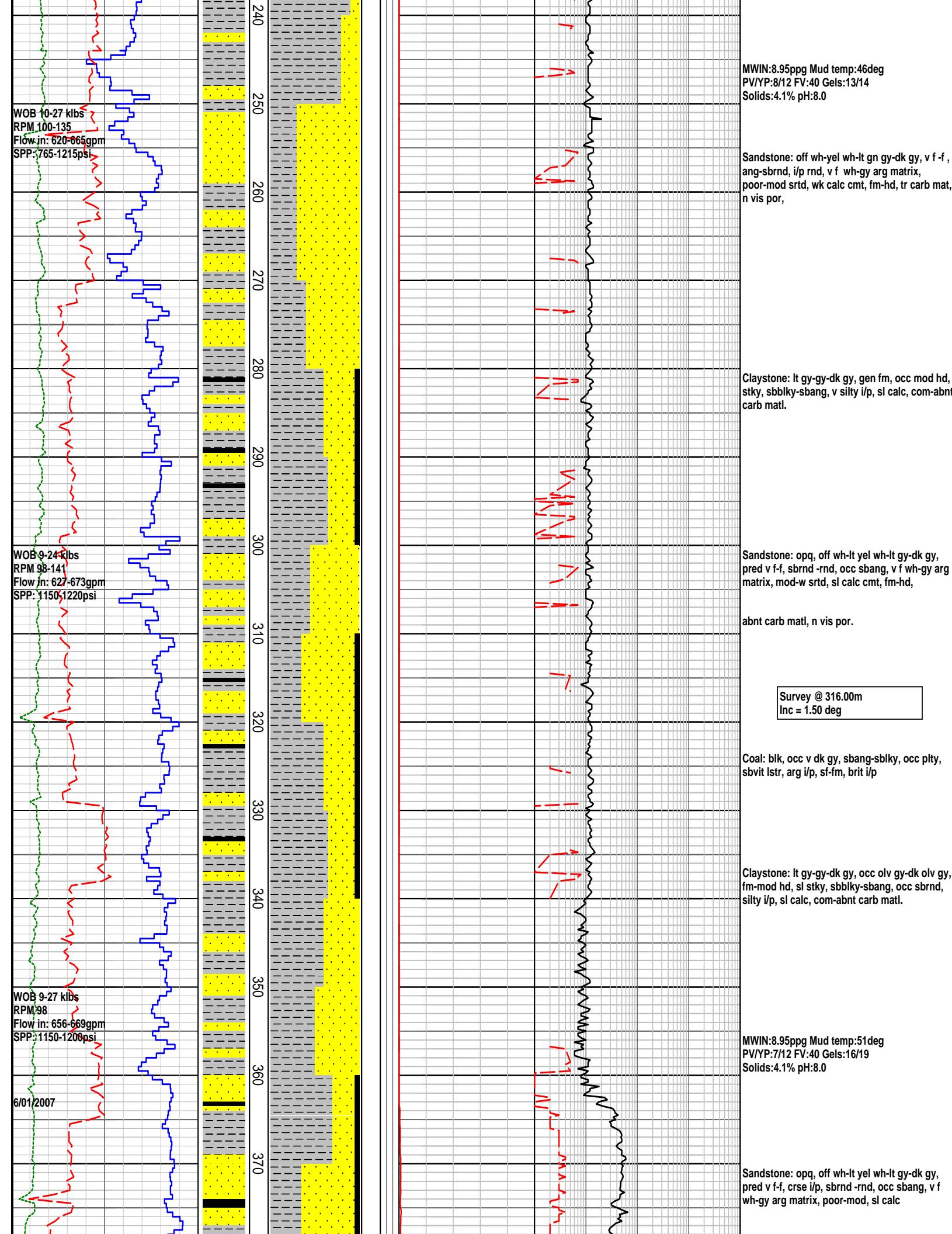
Survey @ 166.00m
Inc = 1.25 deg

Claystone: It dk gy-med dk gy, occ med gn gy-med bn gy, sf-fm, mod hd i/p, v stky, blky-blky, sl calc, tr carb detri, sbfiss

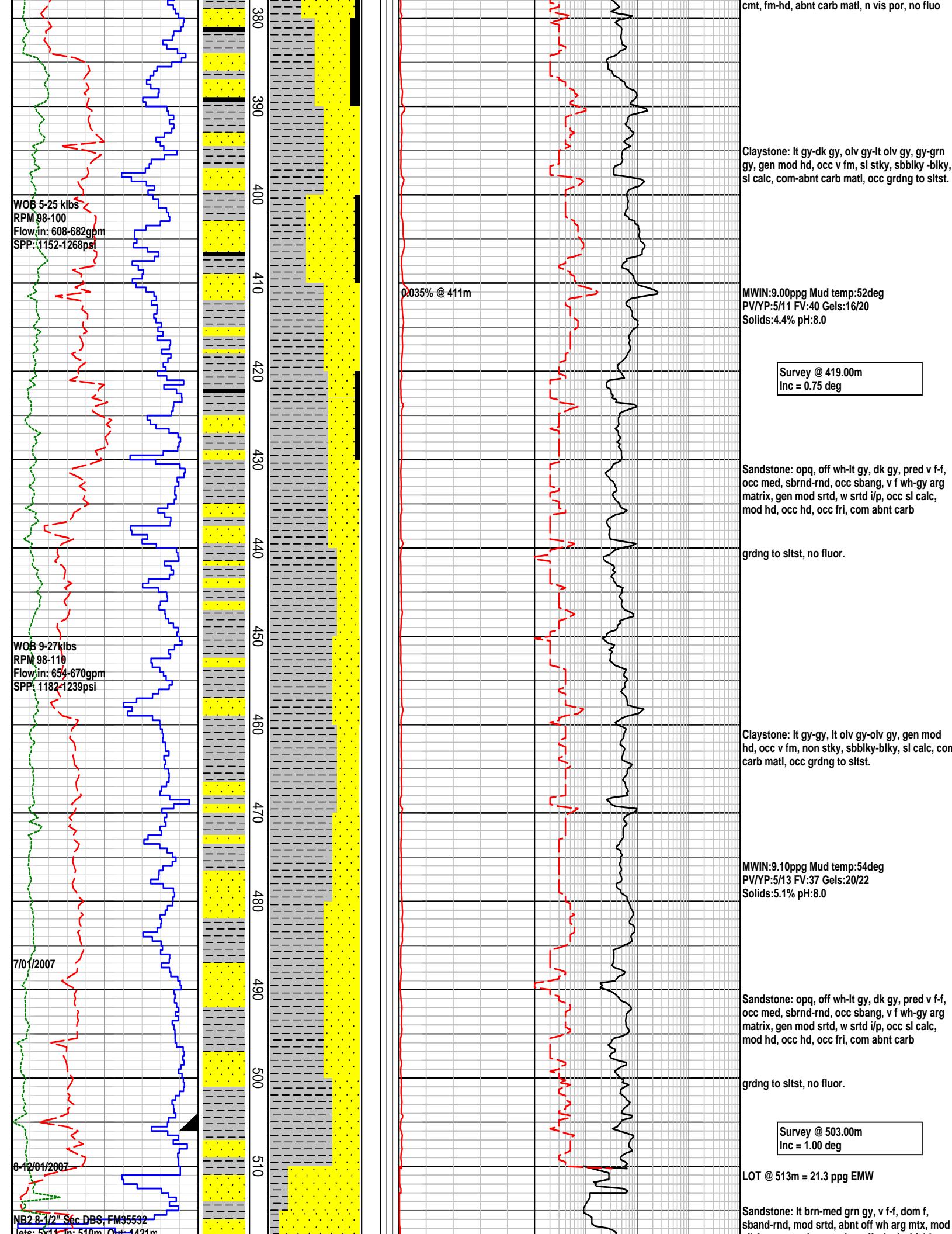
Survey @ 204.00
Inc = 1.00 deg

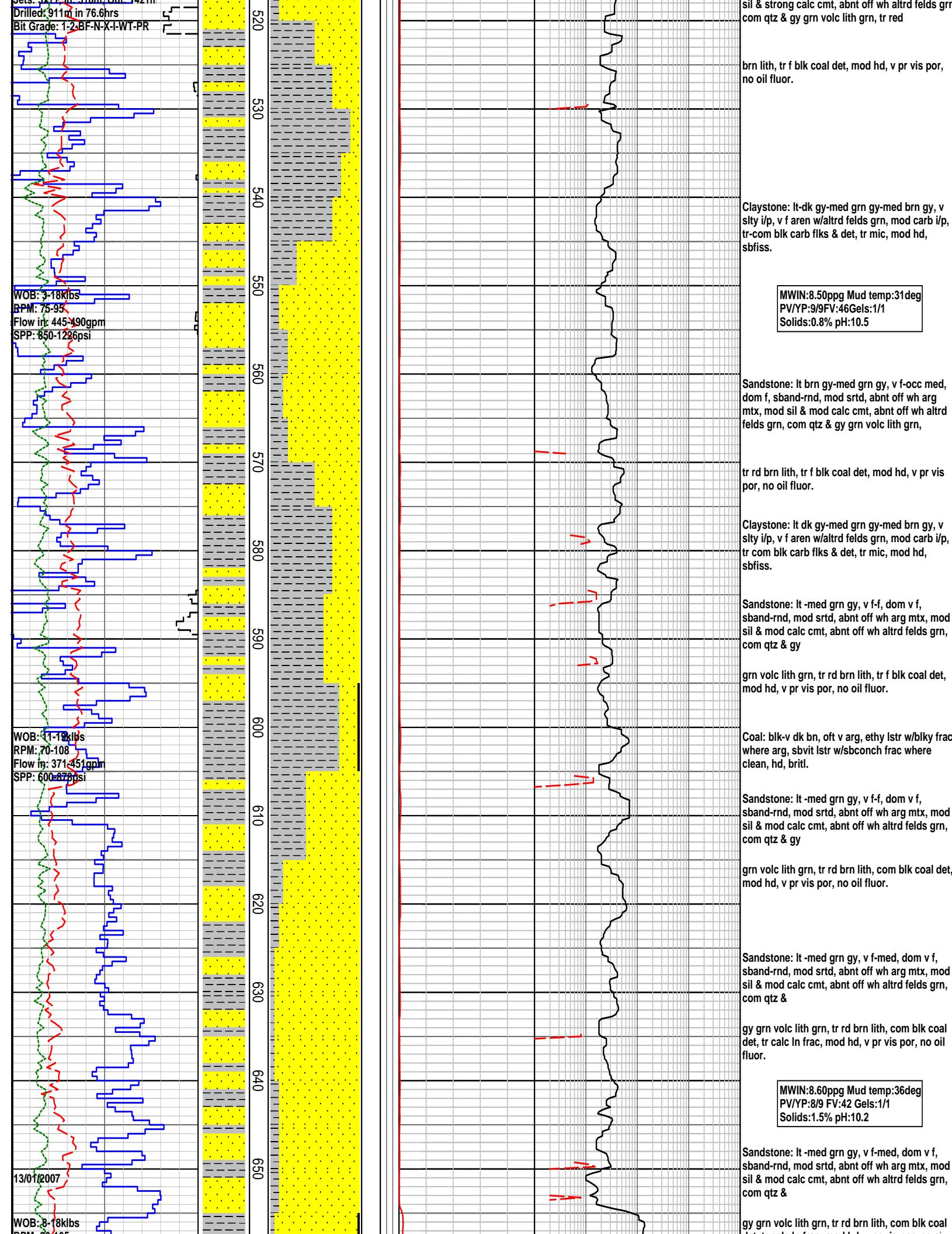
Claystone: It dk gy-med dk gy, occ med gn gy-med bn gy-dk gy, fm-mod hd, sf i/p, v stky, blky-blky, sl calc, tr carb detri, tr micromic, sbfiss

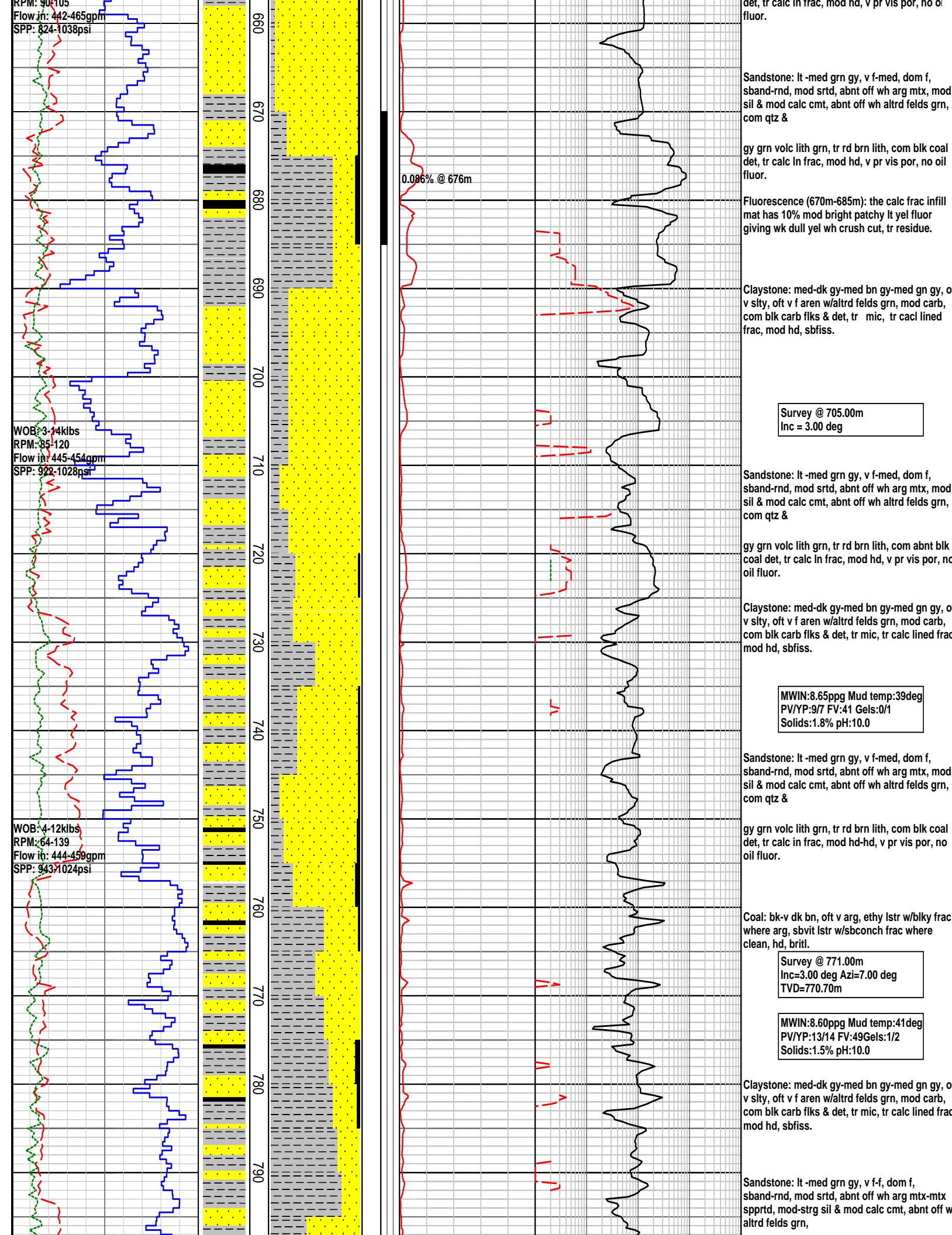




cmt, fm-hd, abnt carb matl, n vis por, no fluo







com qtz & gy grn volc lith grn, tr rd brn lith, com blk coal det, rare calc in frac, hd, no vis por, no oil fluor.

Claystone: lt-dk gy-med bn gy, oft v slyt, oft v f aren w/altrd felds grn, mod carb i/p, tr-com blk carb flks & coaly det, com mic, mod hd, sbfiss.

Sandstone: off wh-med grn gy, v f-occ med, dom f, sband-rnd, mod srt, abnt off wh arg mtn-mtn suptrd, mod-strng sil & mod calc cmt, abnt off wh altrd

felds grn, com gy grn volc lith grn, tr rd brn lith & qtz grn, com blk coal det, hd, no vis por, no oil fluor.

Claystone: lt-dk bn gy-med bn gy, oft v slyt, oft v f aren w/altrd felds grn, mod carb i/p, tr-com blk carb flks & coaly det, com mic, tr cacl lined frac, mod hd, sbfiss.

Coal: v dk bn-bk, oft v arg, ethy lstr, blky-plty frac where arg, sbvit lstr w/sbconch frac where clean, hd.

Claystone: lt-dk bn gy-med gy, oft v slyt, oft v aren w/altrd felds grn, mod carb i/p, abdnt blk carb flks & coaly det, com mic, com cacl lined frac, mod hd, sbfiss.

Survey @ 884.00m
Inc=4.00 deg Azis=7.00 deg
TVD=883.49m

MWIN:8.65ppg Mud temp:44deg
PV/YP:14/15FV:49Gels:1/2
Solids:1.9% pH:10.0

Coal: v dk bn-bk, oft v arg, ethy lstr, blky-plty frac where arg, sbvit lstr w/sbconch frac where clean, hd.

Claystone: lt-dk bn gy-med gy, oft v slyt, oft v aren w/altrd felds grn, mod carb i/p, abdnt blk carb flks & coaly det, com mic, com cacl lined frac, mod hd, sbfiss.

Sandstone: off wh-med grn gy, vf-occ med, dom f, sband-rnd, mod srt, abnt off wh arg mtn, mtn sprtd, mod-strng sil & calc cmt, abnt off wh altrd felds

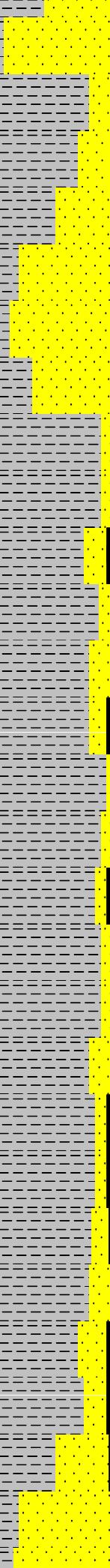
grn, com gy grn volc lith, tr rd brn lith & qtz grn, com blk coal det, tr-com calc lined frac, hd, no vis por, no oil fluor.

WOB: 4-16klbs
RPM: 83-141
Flow in: 444-456gpm
SPP: 866-1026psi

14/01/2007

WOB: 2-16klbs
RPM: 65-135
Flow in: 438-456gpm
SPP: 890-1032psi

WOB: 6-14klbs
RPM: 71-111
Flow in: 445-450gpm
SPP: 943-1027psi



0.069% @ 815.5m

0.068% @ 854m

0.061% @ 863.5m

0.079% @ 878.5m

0.079% @ 901m

0.056% @ 921.5m

vis por, no intergranular oil fluor

Fluorescence (930m-935m): the calc frac infill matl has tr mod brt pitchy lt yel fluor, wk dull wh crsh cut, tr res.

Coal: v dk brn-blk, oft v arg, ethy lstr, blk-plyt frac where arg, subvit lstr w/subconch frac where clean, hd.

Claystone: lt-dk brn-med gy, oft v slyt, oft vf aren w/altrd felds grn, mod carb i/p, tr-com blk carb flks & coal det, com mic, tr calc lined frac, hd, sbfiss.

Survey @ 987.00m
Inc=5.00 deg Az=357.00 deg
TVD=986.17m

Sandstone: off wh-med grn gy, vf-med, dom f grn, sbang-rnd, mod srt, abnt off wh arg mtx, mtx sprtd, mod-strng sli & calc cmt, abnt off wh altrd felds grn, com gy grn volc lith,

tr rd brn lith & qtz grn, com blk coal det, tr calc lined frac, hr, no vis por, no oil fluor.

MWIN:8.60ppg Mud temp:51deg
PV/YP:15/18FV:51Gels:2/3
Solids:1.6% pH:9.5

Coal: bk, mod arg i/p, ethy lstr, blk-sbconch ethy-sbvit lstr, hd, brtl

Sandstone: off wh-med grn gy, vf-occ f, dom v sbang-rnd, mod srt, abnt off wh arg mtx, mtx sprtd, mod-strng sli & calc cmt, abnt off wh altrd felds

grn, com gy grn volc lith, tr rd brn lith & qtz grn com blk coal det, tr calc lined frac, hd, no vis por, no oil fluor.

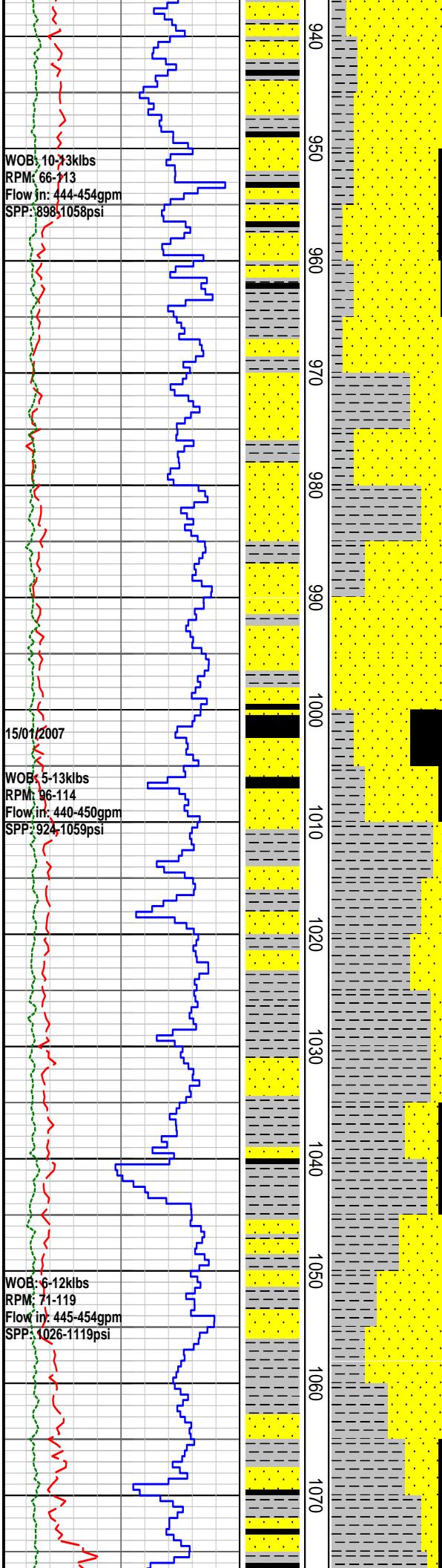
Claystone: med-dk gy-med-dk bn gy, oft v slyt, occ v f aren w/altrd felds grn, mod-v carb i/p, com blk carb flks & coal det, com mic, tr calc lined frac, hd, sbfiss.

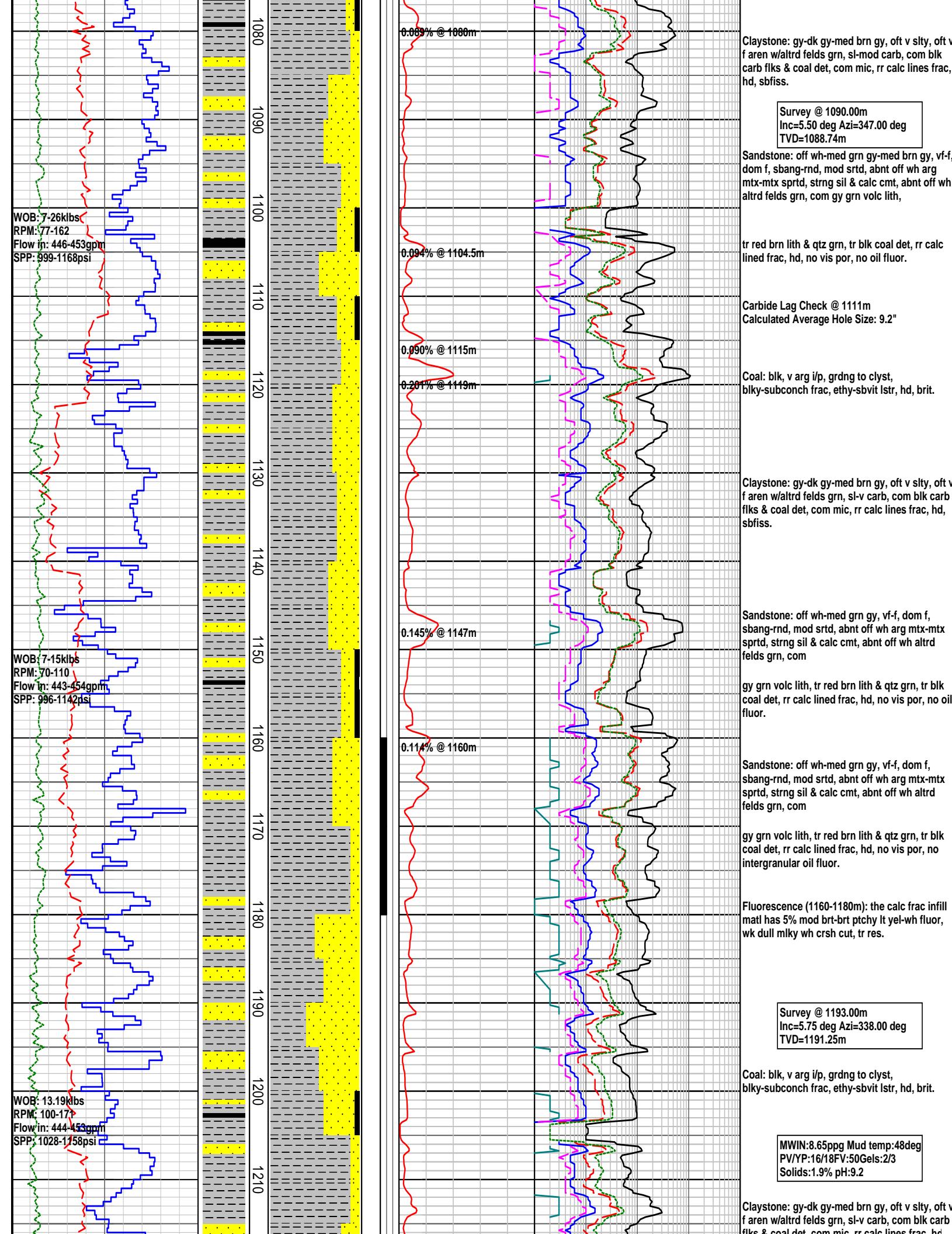
Coal: bk, mod arg i/p, ethy lstr, blk-sbconch ethy-sbvit lstr, hd, brtl

Sandstone: off wh-med grn gy, vf-f, dom v f, sbang-rnd, mod srt, abnt off wh arg mtx, mtx sprtd, mod-strng sli & calc cmt, abnt off wh altrd felds

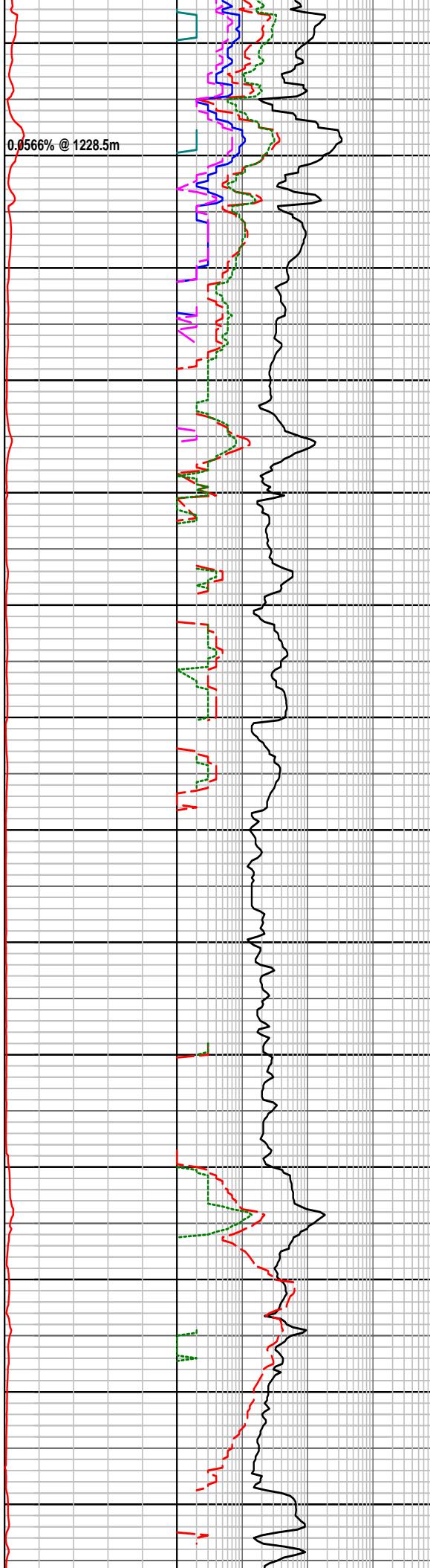
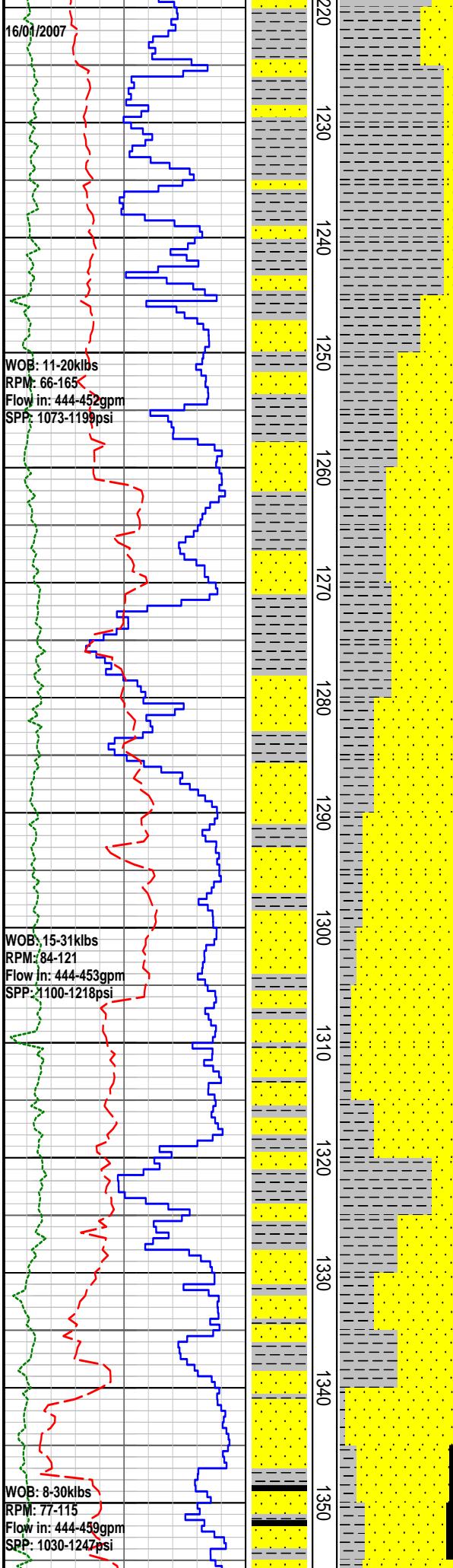
grn, com gy grn volc lith, tr rd brn lith & qtz grn com blk coal det, rare calc lined frac, hd, no vis por, no oil fluor.

Claystone: med-dk gy-med-dk bn gy, oft v slyt, occ v f aren w/altrd felds grn, v carb i/p, abndt blk carb flks & coal det, com mic, tr calc lined frac, hd, sbfiss.





flks & coal det, com mic, tr calc lines frac, hd sbfiss.



Claystone: med-dk gy-med grn-med brn, oft v sity, v f aren w/altrd felds gr i/p, sli-mod carb, com blk carb flecks & coal det com micmic, tr-com calc lined frac, hd, sbfiss.

Fluorescence (1240-1270): the calc frac infill has 5-10% mod brt-brt patchy pl yel fluor giving a wk dull yel wh crsh cut, tr res.

Sandstone: off wh-med grn gy, vf-f, dom f, sbang-rnd, mod srted, abnt off wh arg mtx-mtx sprtd, strng sil & calc cmt, abnt off wh altrd felds grn, com

gy grn volc lith, tr red brn lith & qtz grn, tr blk coal det, tr-com calc lined frac, hd, no vis por, no intergranular oil fluor.

Sandstone: off wh-med grn gy-lt brn gy, vf-f, dom f, sbang-rnd, mod srted, abnt off wh arg mtx-mtx sprtd, strng sil & calc cmt, abnt off wh altrd felds

grn, com gy grn volc lith, tr red brn lith & qtz grn, tr blk coal det, tr calc lined frac, hd-v hd, no vis por, no intergranular oil fluor.

Survey @ 1296.00m
Inc=4.75 deg Azi=357.00 deg
TVD=1293.82m

Fluorescence (1280-1290 & 1300-1305): the calc frac infill has tr mod brt-brt patchy pl yel fluor giving a wk dull yel wh crsh cut, tr res.

Claystone: gy-med grn gy-med brn gy, oft v sity v f aren w/altrd felds grn i/p, sli-mod carb, com blk carb flks & coal det, com mic, tr calc lines frac, hd, sbfiss.

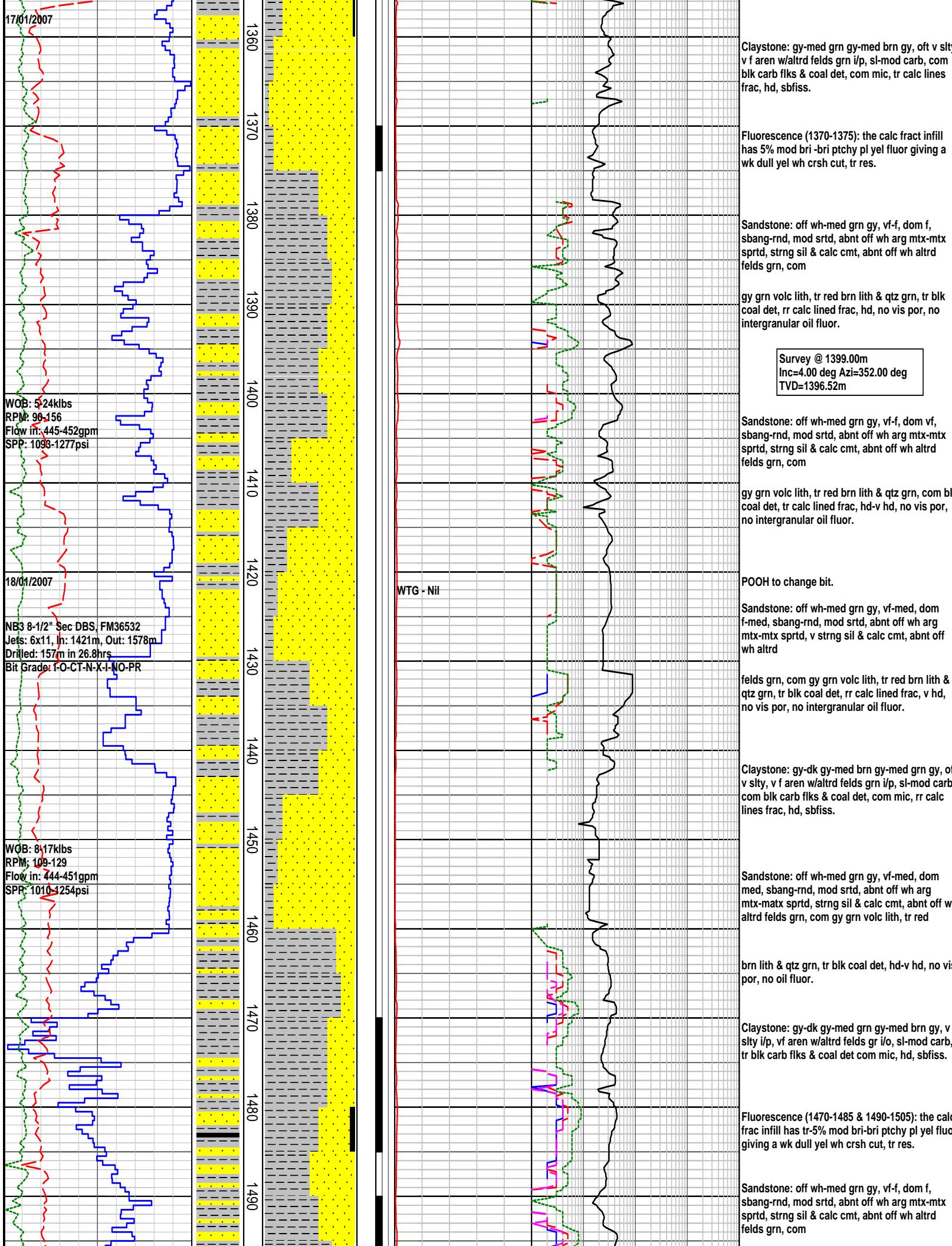
Carbide Lag Check @ 1318m
Calculated Average Hole Size: 10.0"

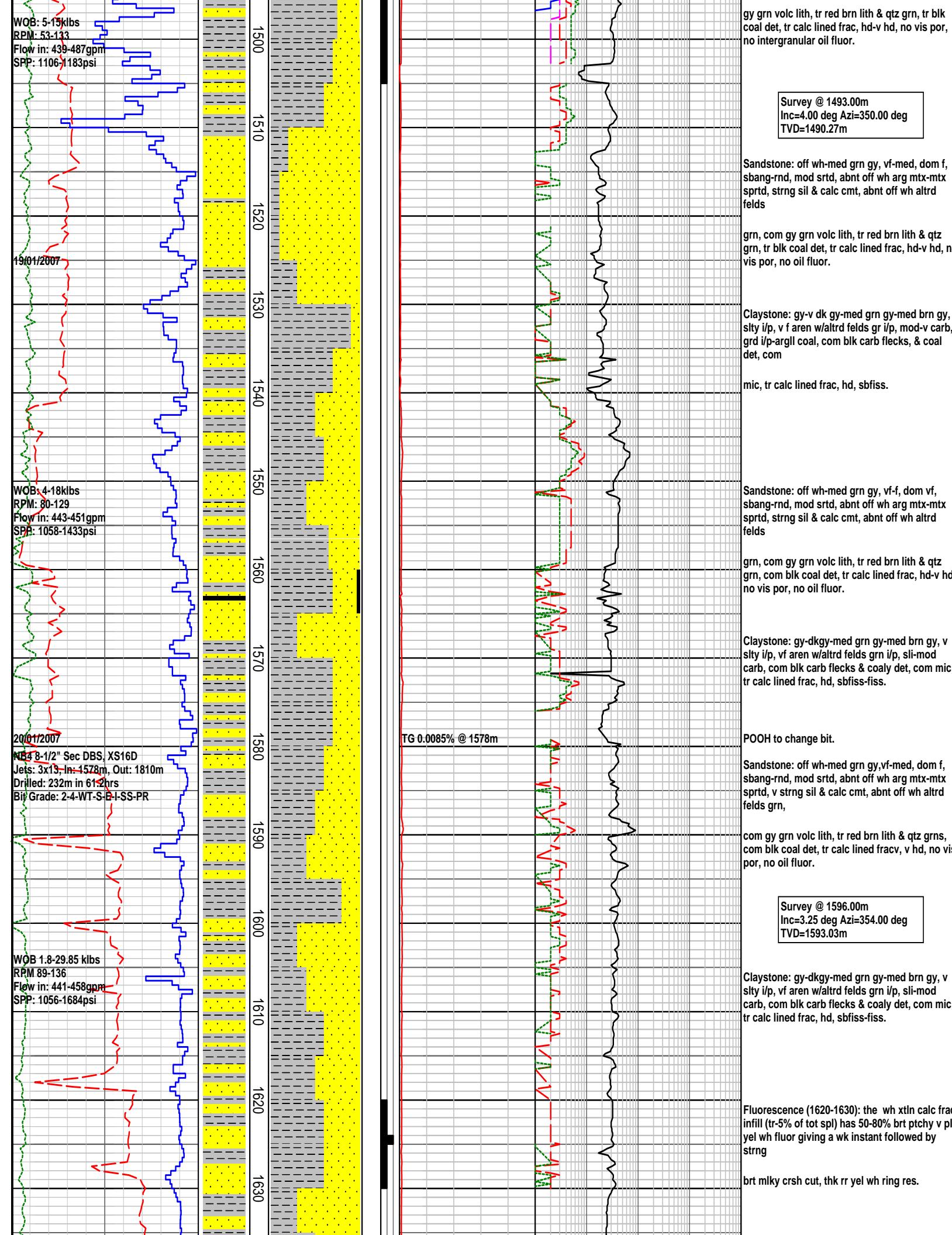
Fluorescence (1310-1330 & 1335-1340): the calc frac infill has 10-20% mod brt-brt patchy pl yel fluor giving a wk dull yel wh crsh cut, thin

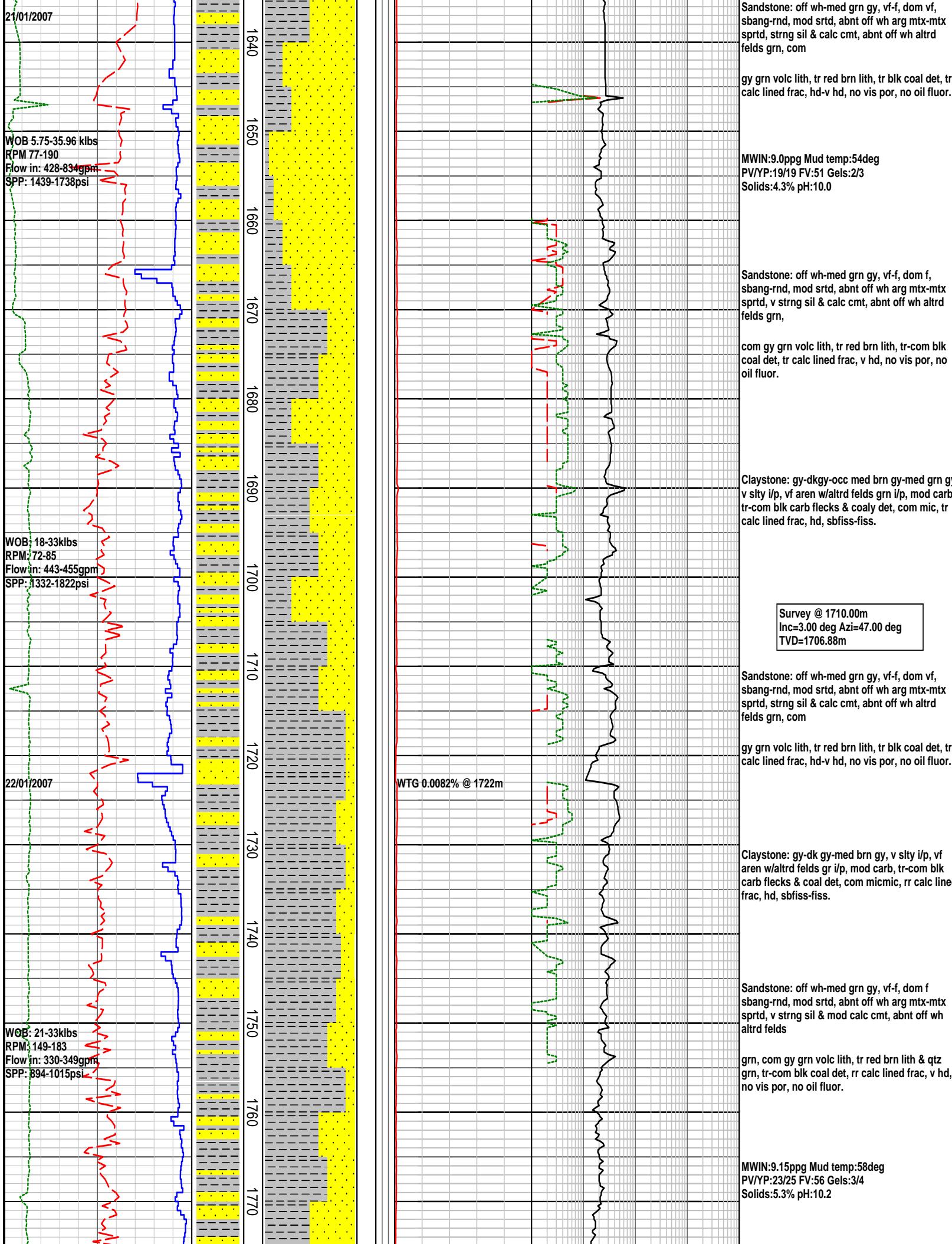
ring res, tr med dk brn oil staining on some calc surf.

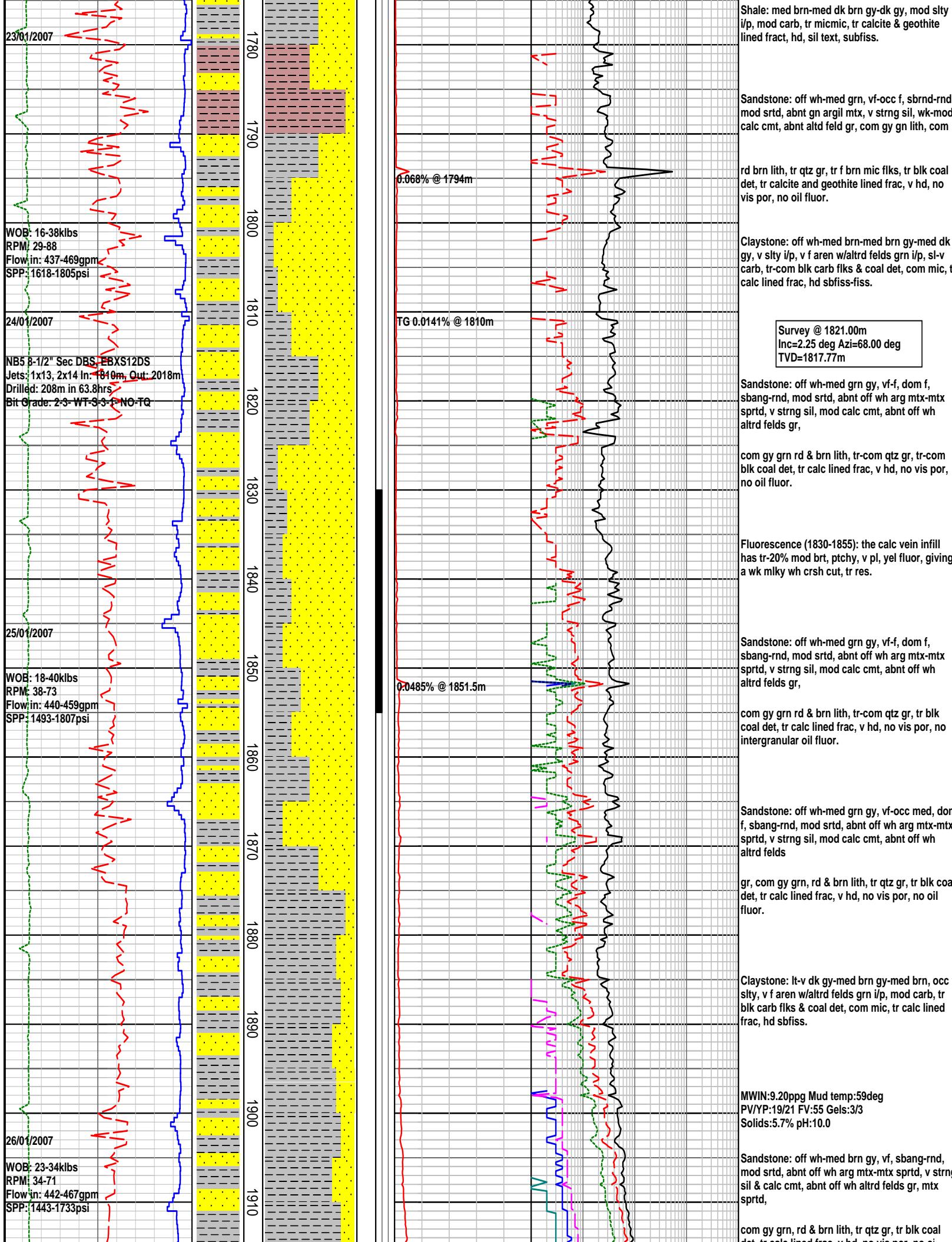
Sandstone: off wh-med grn gy, vf-f, dom f, sbang-rnd, mod srted, abnt off wh arg mtx-mtx sprtd, strng sil & calc cmt, abnt off wh altrd felds grn, com

gy grn volc lith, tr red brn lith & qtz grn, tr blk coal det, com calc & tr goethite lined frac, hd-v hd, no vis por, no intergranular oil fluor.









det, tr calc lined frac, v fd, no vis por, no fluor.

Survey @ 1915.00m
Inc=3.75 deg Azi=96.00 deg
TVD=1911.64m

Claystone: dk-v dk gy, occ mod slyt, rr v f aren w/altrd felds grn, mod-dom v carb, tr blk carb flks & coal det, com mic, tr calc lined frac, hd sbfiss.

Claystone: dk-v dk gy, occ mod slyt, rr v f aren w/altrd felds grn, mod-dom v carb, tr blk carb flks & coal det, com mic, tr calc lined frac, hd sbfiss.

Claystone: dk-v dk gy, rr med brn gy,occ mod slyt, mod-dom v carb, tr black carb flcks, coaly det, com micmic, rr calc Ind fract, hd-sbfiss

MWIN:9.30ppg Mud temp:59.2deg
PV/YP:20/22 FV:56
Gels:4/5
Solids:6.4% pH:9.8

Sandstone: off wh-med brn gy, vf, sbang-rnd, mod srted, abnt off wh arg mtx-mtx sprtd, abnt off wh altrd felds gr, no shows

Claystone: dk-v dk brn, occ slig slyt, dom v carb, tr blk carb flks & coal det, com mic, tr calc lined frac, hd sbfiss.

MWIN:9.25ppg Mud temp:59.1deg
PV/YP:19/23 FV:55 Gels:4/6
Solids:6.0% pH:10.5

Survey @ 2006.00m
Inc=6.75 deg Azi=79.00 deg
TVD=2002.25m

POOH to change bit.

Claystone: dk-v dk gy, rr med brn gy,occ mod slyt, mod-dom v carb, tr black carb flcks, coaly det, com micmic, rr calc Ind fract, hd-sbfiss

MWIN:9.30ppg Mud
temp:54.3deg
PV/YP:19/26 FV:58 Gels:4/6
Solids:6.4% pH:10

Coal: dom v dkbrn, v argill, blk where cln, sbvit-ethy lstr, pty-blky fract, com slicknsd sfc,hd-brit,n fluor but gv a wk dull yell crsh cut,tr res

Survey @ 2053.00m
Inc=8.50 deg Azi=77.00 deg
TVD=2048.83m

Claystone: dk-v dkbrn sli slyt, v carb-orr

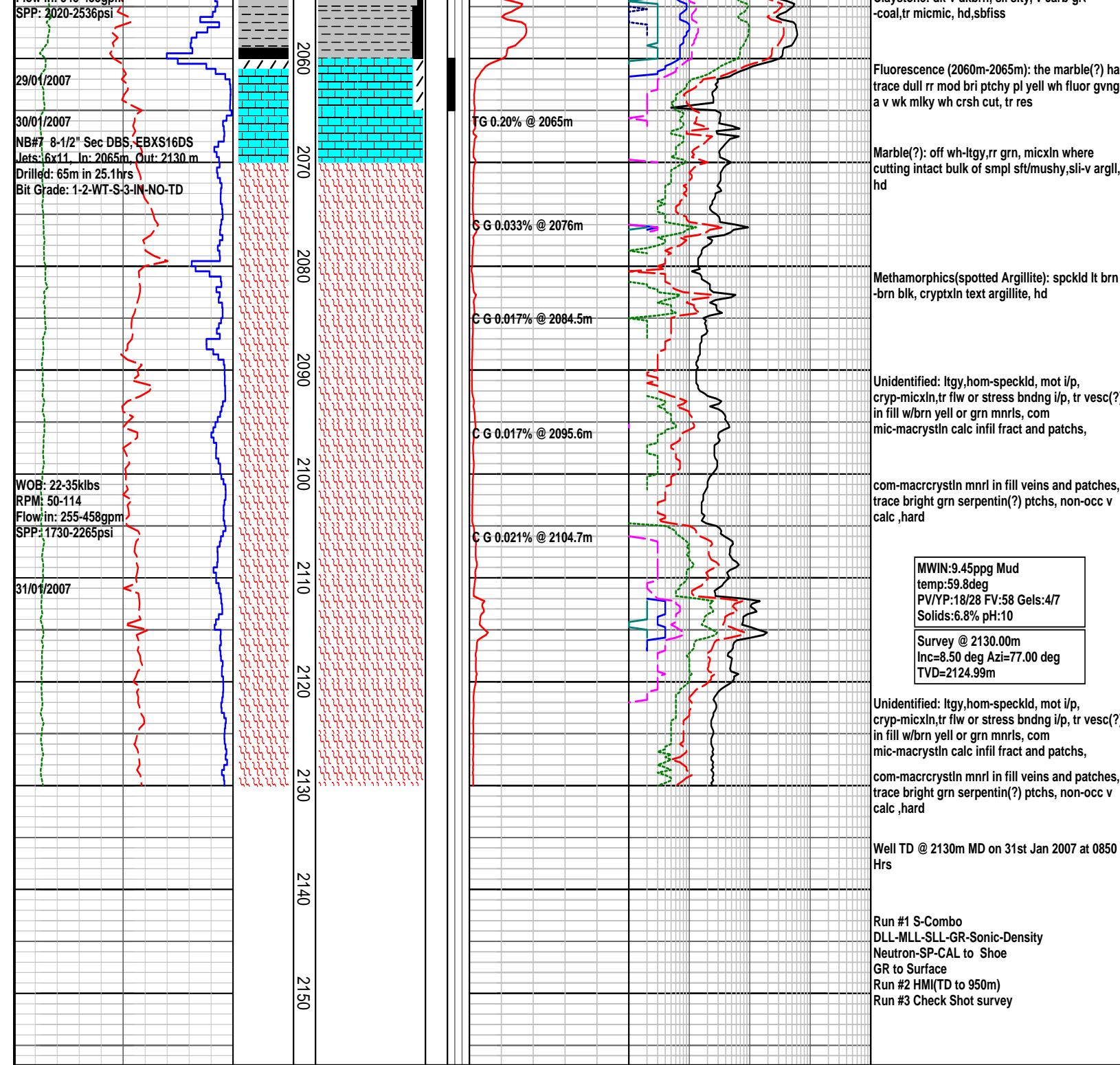
WOB: 8.6-32.8klbs
RPM: 48-80
Flow in: 438-462gpm
SPP: 1555-1778psi

27/01/2007

WOB: 22-32klbs
RPM: 50-80
Flow in: 442-467gpm
SPP: 1560-1820psi

RR#6 8-1/2" Sec DBS, SE3653
Jets: 6x11, In: 2018m, Out: 2065
Drilled: 47m in 17.2.xhrs
Bit Grade: 1-1-CT-N-X-I-NO-PR

WOB: 8-31klbs
RPM: 90-123
Flow in: 345-455gpm



FORMATION EVALUATION LOG

| RATE OF PENETRATION | | LITHOLOGY | CORE | TOTAL GAS | | CHROMATOGRAPH | | REMARKS |
|--|--|------------|----------------|-------------|-----------------------------|-------------------------|-------|---------|
| ROP (0-50m/hr) | Backup ROP (50-200m/hr) | | | OIL SHOWS | % | Methane ppm | 10000 | |
| 5 45 40 35 30 25 20 15 10 5 | 200 185 170 155 140 125 110 95 80 65 | WOB (kib) | MD meters 1500 | INTERPRETED | TOTAL GAS | 1 | 10000 | |
| 5 10 15 20 25 30 35 40 45 50 | 5 10 15 20 25 30 35 40 45 50 | TORQUE AVG | | LITHOLOGY | 0.1 0.2 0.3 0.4 0.5 | 1 | 10000 | |
| | | | | | | 1 | 10000 | |
| | | | | | | 1 | 10000 | |
| | | | | | | 1 | 10000 | |
| | | | | | | 1 | 10000 | |
| | | | | | | 1 | 10000 | |
| | | | | | | 1 | 10000 | |
| | | | | | | 10 100 1000 10000 | | |