ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY BEREXCO LLC

LEASE PIERSON #2-15

FIELD WILDCAT

LOCATION 718' FNL & 1153' FEL

SECTION 15 TOWNSHIP 35S RANGE 13W

COUNTY BARBER STATE KANSAS

ELEVATIONS

KB 1491' GL 1479'

Measurements Are All From KB: 1491'

API 15-007-24263

CONTRACTOR FOSSIL DRILLING RIG#3

SPUD 12/30/14 COMP 1/11/15

RTD 5069' (-3578) LTD 5069' (-3578)

ELECTRICAL SURVEYS

Weatherford; Array Induction Shallow Focused Electric Log
Compact Photo Density Compensated Neutron; & MicroRes.

CASING

SURFACE 13&3/8" @ 329'

PRODUCTION 117jts 5&1/2" 15.5# csg set @ 5017'KB w/ 300sx (see Remarks)

FORMATION TOPS	LOG	SAMPLES
*B/ HEEBNER SH (*BEREXCO PICK)	3947' (-2456)	3947' (-2456)
TORONTO	3969' (-2478)	3968' (-2477)
LANSING	4305' (-2814)	4305' (-2814)
KANSAS CITY	4464' (-2973)	4469' (-2978)
STARK SH	4640' (-3149)	4640' (-3149)
HERTHA	4677' (-3186)	4677' (-3186)
MARMATON	4736' (-3245)	4736' (-3245)
ALTAMONT	4774' (-3283)	4774' (-3283)
PAWNEE	4809' (-3318)	4812' (-3321)
FT. SCOTT	4849' (-3358)	4848' (-3357)
CHEROKEE	4866' (-3375)	4867' (-3376)
MISSISSIPPIAN CHERT	4887' (-3396)	4887' (-3396)
TOTAL DEPTH (LTD/RTD)	5069' (-3578)	5069' (-3578)

CHRONOLOGY

12/30/14; MIRU
Spud 17&1/2" hole; drlg to 329';
Ran 13&3/8" surf.csg; set @ 329'KB; WOC; Shut dwn.

1/3/15; WOC @ 329' @ 9:30AM.

1/4/15; Drlg@1572'@9:45am; Bit: 7&7/8" Varel HE 21
Md.wt:9.2; vis:29;pH:7.0; Cl:40,000ppm; Ca:Hvy;
Solids:4%; LCM:1#/bbl. Dev.Surveys:1/4deg@1013'
& 1/2 deg @ 1571' & 0 deg @ 1997'

1/5/15; Drlg@ 2425' @ 8:45am; Md.wt:9.5; vis:29;
Cl:68,000ppm; Ca:Hvy; Solids:4.5%; LCM:0

1/6/15; Drlg@ 3200' @ 8:00am; Md.wt:9.2; vis:30
pH:7.0; Cl:76,000ppm; Ca:Hvy; Solids:1.9%; LCM:0.
Dev.Survey: 3/4 deg @ 3490'

1/7/15; Drlg@ 3998' @ 9:45am. Survey:3/4@3998'
(see below, on log, for Mud-Co report)

1/8/15; Drlg@ 4571' @ 9:30am. (3/4deg@4593')

1/9/15; CFS @ 4914' @ 10:00am.

1/10/15; E-Logs@ 9:00am; RTD&LTD:5069'
Dev.Survey: 3/4 deg @ 5069'
Ran 117 jts 5&1/2" 15.5# csg; set @ 5060' KB;
PBTD @ 5017' KB, ran baskets @ 4932' & 4845';
marker jt from 4524' & 4542' KB;
Centralized every other collar from #1 to #25.

1/11/15; SEE "REMARKS" section below for cmt
details; Plug landed @ 3:00 AM, 1/11/15.

REMARKS:

1/10/15: RTD&LTD:5069'. Ran 117 jts 5&1/2" 15.5# csg; set @ 5060' KB;
PBTD @ 5017' KB, ran baskets @ 4932' & 4845'; marker jt from 4524' & 4542' KB;
Centralized every other collar from #1 to #25. Job Super: Mr. Kameron Wilson.

1/11/15: Cmt'd w/ 100 sx Serv Lite w/ 1/4# flakes tailled w/ 200 sx AA-2, w/ 1/4
flakes, 5# salt, 5# gilsonite, 0.5# fluid loss, 0.3# friction reducer, 0.2# defoamer &
1# gas block. Plugged mouse & rat holes w/ 20sx & 30sx A Serv Lite, respectively.
Plug landed @ 3:00 AM, 1/11/15. 900# life pressure at end. Cmt did not circ to surf,
but maintained good circ thru-out. Job Super: Mr. Kameron Wilson.

5&1/2" PRODUCTION CASING WAS SET @ 5060' KB, WITH A PBTD OF 5017' KB;
TO FURTHER EVALUATE THE MISSISSIPPIAN SYSTEM.

RESPECTFULLY SUBMITTED,
ROGER L MARTIN, GEOLOGIST (WELL-SITE)

(Print length = 123")

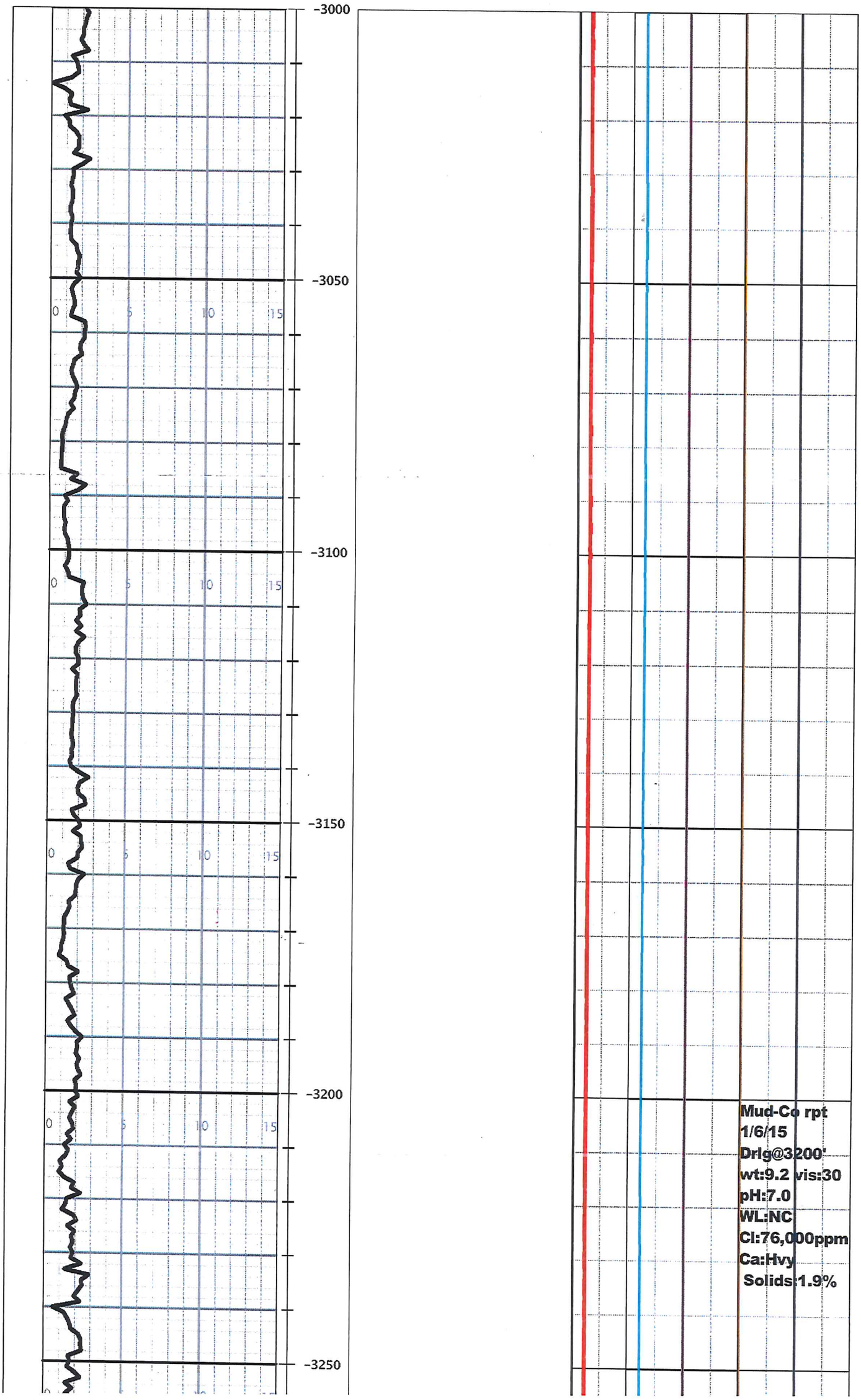
LITH

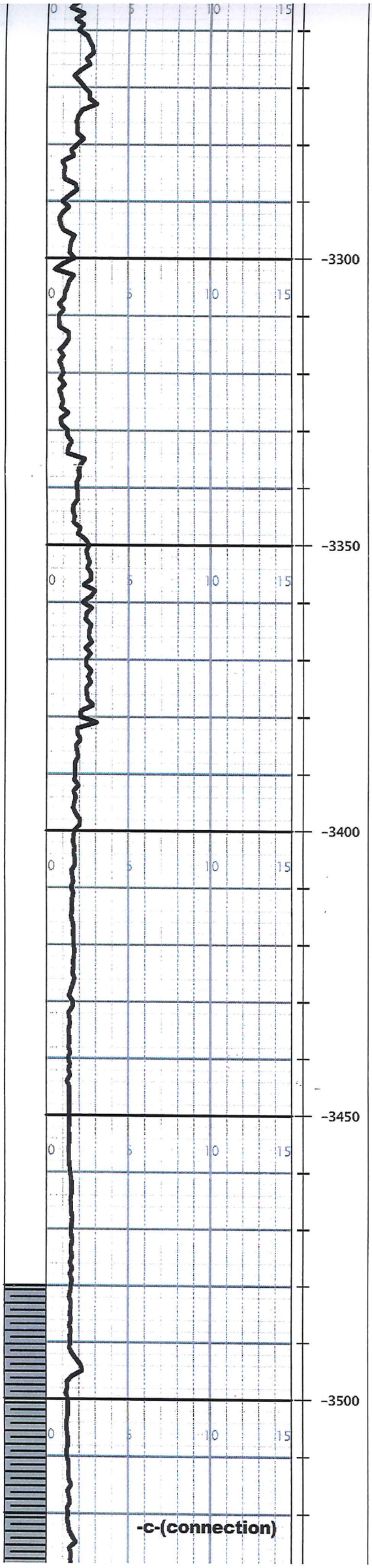
DRILLING TIME
ROP MIN/FT
0 Gamma 150

DST

SAMPLE DESCRIPTION

Total Gas 0-100 Units | Methane 0-100 Units | Ethane 0-100 Units | Propane 0-50 Units | Butane 0-50 Units

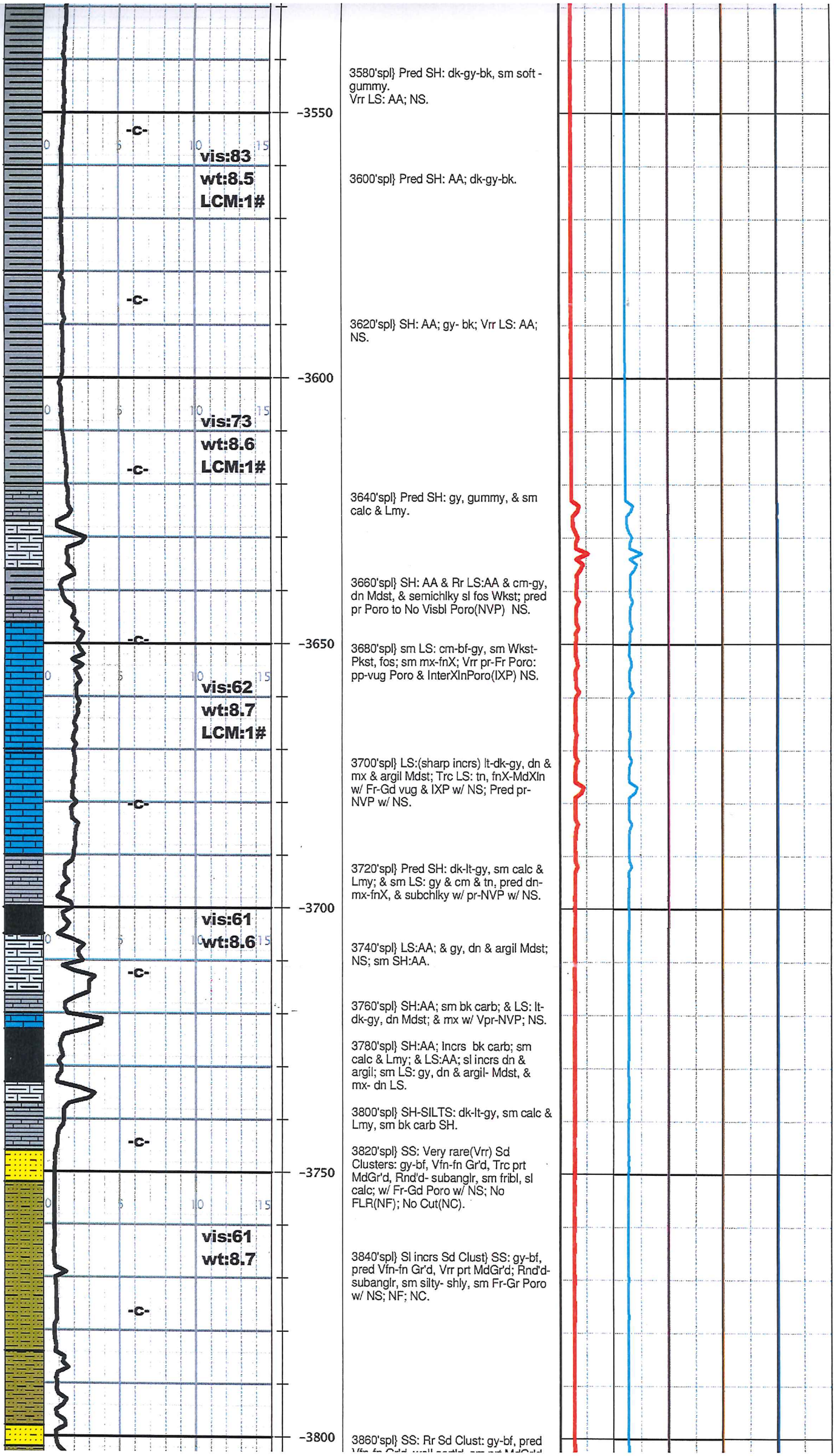




3520'spl} Pred SH: gy, sm calc & Lmy; & sm LS: cm-tn-gy, microXln(mx) w/ pr Fr pin point(pp) Poro(Porosity) w/ No Show(NS).

3540'shp} SH: As Above(AA) & gy-bk, sm carb & micac; Very rare(Vrr) LS: AA; NS.

3560'spl} SH: gy-bk, sm subcarb; sm calc & Lmy; Rare(Rr) LS: gy-bk, tn, dn & argil Mdst; NS.



3580'spl} Pred SH: dk-gy-bk, sm soft - gummy.
Vrr LS: AA; NS.

3600'spl} Pred SH: AA; dk-gy-bk.

3620'spl} SH: AA; gy- bk; Vrr LS: AA; NS.

3640'spl} Pred SH: gy, gummy, & sm calc & Lmy.

3660'spl} SH: AA & Rr LS:AA & cm-gy, dn Mdst, & semichlky sl fos Wkst; pred pr Poro to No Visbl Poro(NVP) NS.

3680'spl} sm LS: cm-bf-gy, sm Wkst-Pkst, fos; sm mx-fnX; Vrr pr-Fr Poro: pp-vug Poro & InterXlnPoro(IXP) NS.

3700'spl} LS:(sharp incrs) lt-dk-gy, dn & mx & argil Mdst; Trc LS: tn, fnX-MdXln w/ Fr-Gd vug & IXP w/ NS; Pred pr-NVP w/ NS.

3720'spl} Pred SH: dk-lt-gy, sm calc & Lmy; & sm LS: gy & cm & tn, pred dn-mx-fnX, & subchlky w/ pr-NVP w/ NS.

3740'spl} LS:AA; & gy, dn & argil Mdst; NS; sm SH:AA.

3760'spl} SH:AA; sm bk carb; & LS: lt-dk-gy, dn Mdst; & mx w/ Vpr-NVP; NS.

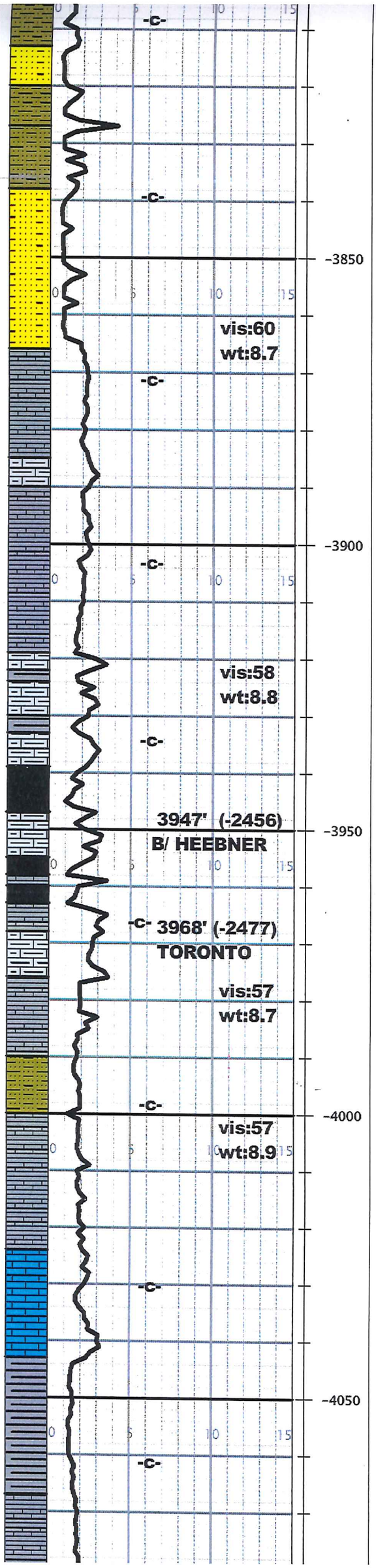
3780'spl} SH:AA; Incrs bk carb; sm calc & Lmy; & LS:AA; sl incrs dn & argil; sm LS: gy, dn & argil- Mdst, & mx- dn LS.

3800'spl} SH-SILTS: dk-lt-gy, sm calc & Lmy, sm bk carb SH.

3820'spl} SS: Very rare(Vrr) Sd Clusters: gy-bf, Vfn-fn Gr'd, Trc prt MdGr'd, Rnd'd- subanglr, sm fribl, sl calc; w/ Fr-Gd Poro w/ NS; No FLR(NF); No Cut(NC).

3840'spl} Sl incrs Sd Clust} SS: gy-bf, pred Vfn-fn Gr'd, Vrr prt MdGr'd; Rnd'd-subanglr, sm silty- shly, sm Fr-Gr Poro w/ NS; NF; NC.

3860'spl} SS: Rr Sd Clust: gy-bf, pred



Rnd'd to subanglr, well cmt'd to fribl w/ Fr-Gd Poro w/ NS; NF; NC.

3880'spl} SS: Rr (~10%) Sd Clust: gy, Vfn-MdGr'd, sm pred fn Gr'd, well sort'd, sm prt MdGr'd- mod sort'd, well cmt'd to fribl, sm calc, sm silty & shly; sm Fr-Gd Poro w/ NS; NF; NC.

3900'spl} SS: Incrs Sd Clusters: gy-bf, Vfn-MdGr'd, well Rnd'd- subanglr, pred well cmt'd- subfribl; sm calc & Lmy, sm silty & shly; pred pr to Fr Poro w/ NS; NF; NC.

3920'spl} (Frly abndt Sd Clust:AA; w/ NS) SH: Incrs dk-lt-gy, sm calc & Lmy.

3940'spl} Rr LS: gy, dn- Mdst- argil; NVP; NS; Pred SH:AA; sm calc & Lmy; (Rr Sd Clust:AA; NS).

3960'spl} Sm LS: gy, dn & argil Mdst: tn-cm; mx- dn; & SH:AA. (~5% <10% Sd Clust:AA;NS)

3980'spl} SH:AA; sm bk carb; & LS: gy, dn & argil & Mdst;

3980'spl.cont'd} & SH: bk subcarb to V.carb.
& LS: gy, dn argil- Mdst w/ NVP; NS.

4000'spl} SH: gy-bk, & bk carb.

4000'spl.cont'd} LS: (incrs) gy, dn & argil- Mdst; & tn, mx- dn, w/ Vpr-NVP; NS.

4020'spl} SH: dk-lt-gy, & bk carb; sm calc & Lmy SH.

4020'spl.cont'd} Vrr Sd Clust:AA; SS: fn-MdGr'd w/ Fr-Gd Poro w/ NS; NF; NC.

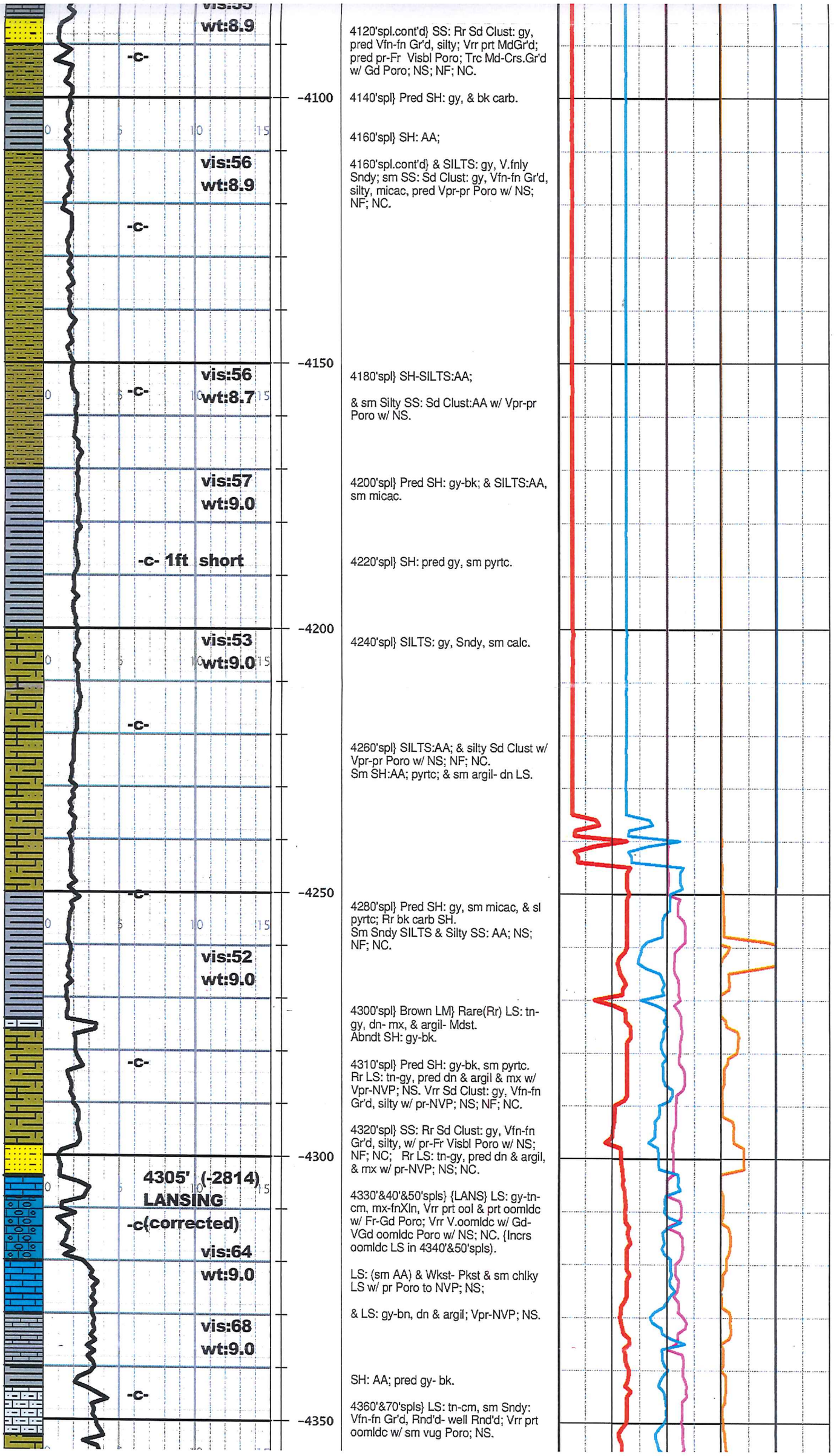
4040'spl} SH:AA & calc & Lmy SH.

4040'spl.cont'd} & LS: gy-bn, dn & argil- Mdst & mx-dn; Vpr- NVP; NS.
4060'spl} LS: (incrs) gy-tn-cm, pred dn, sm argil, sm mx-fnX & fos- Pkst; pr-Fr visbl Poro w/ NS. (Vrr Sd Clust:AA; NS; NF; NC).
4080'spl} LS:AA; incrs cm-tn, Pkst & Vrr Grst; fos w/ pred pr-Fr Visbl Poro w/ NS.

4100'spl} SH-SILTS: lt-dk-gy, sm micac.

4120'spl} SH:AA; incrs bk carb SH; & LS:AA; w/ pred pr Visbl Poro w/ NS.

Mud-Co rpt
1/7/15
Drlg @3998'
wt:8.9vis:57
pv:15 yp:17
pH:11.5
WL:9.0
CT:1/32"
Alk:1.0
Cl:4,000ppm
Ca: 80ppm
Solids 4.1%
LCM: Trc.
ECD:9.29#/gal



4120'spl.cont'd} SS: Rr Sd Clust: gy, pred Vfn-fn Gr'd, silty; Vrr prt MdGr'd; pred pr-Fr Visbl Poro; Trc Md-Crs.Gr'd w/ Gd Poro; NS; NF; NC.

4140'spl} Pred SH: gy, & bk carb.

4160'spl} SH: AA;

4160'spl.cont'd} & SILTS: gy, V.fnly Sndy; sm SS: Sd Clust: gy, Vfn-fn Gr'd, silty, micac, pred Vpr-pr Poro w/ NS; NF; NC.

4180'spl} SH-SILTS:AA;

& sm Silty SS: Sd Clust:AA w/ Vpr-pr Poro w/ NS.

4200'spl} Pred SH: gy-bk; & SILTS:AA, sm micac.

4220'spl} SH: pred gy, sm pyrtc.

4240'spl} SILTS: gy, Sndy, sm calc.

4260'spl} SILTS:AA; & silty Sd Clust w/ Vpr-pr Poro w/ NS; NF; NC.
Sm SH:AA; pyrtc; & sm argil- dn LS.

4280'spl} Pred SH: gy, sm micac, & sl pyrtc; Rr bk carb SH.
Sm Sndy SILTS & Silty SS: AA; NS; NF; NC.

4300'spl} Brown LM} Rare(Rr) LS: tn-gy, dn- mx, & argil- Mdst.
Abndt SH: gy-bk.

4310'spl} Pred SH: gy-bk, sm pyrtc.
Rr LS: tn-gy, pred dn & argil & mx w/ Vpr-NVP; NS. Vrr Sd Clust: gy, Vfn-fn Gr'd, silty w/ pr-NVP; NS; NF; NC.

4320'spl} SS: Rr Sd Clust: gy, Vfn-fn Gr'd, silty, w/ pr-Fr Visbl Poro w/ NS; NF; NC; Rr LS: tn-gy, pred dn & argil, & mx w/ pr-NVP; NS; NC.

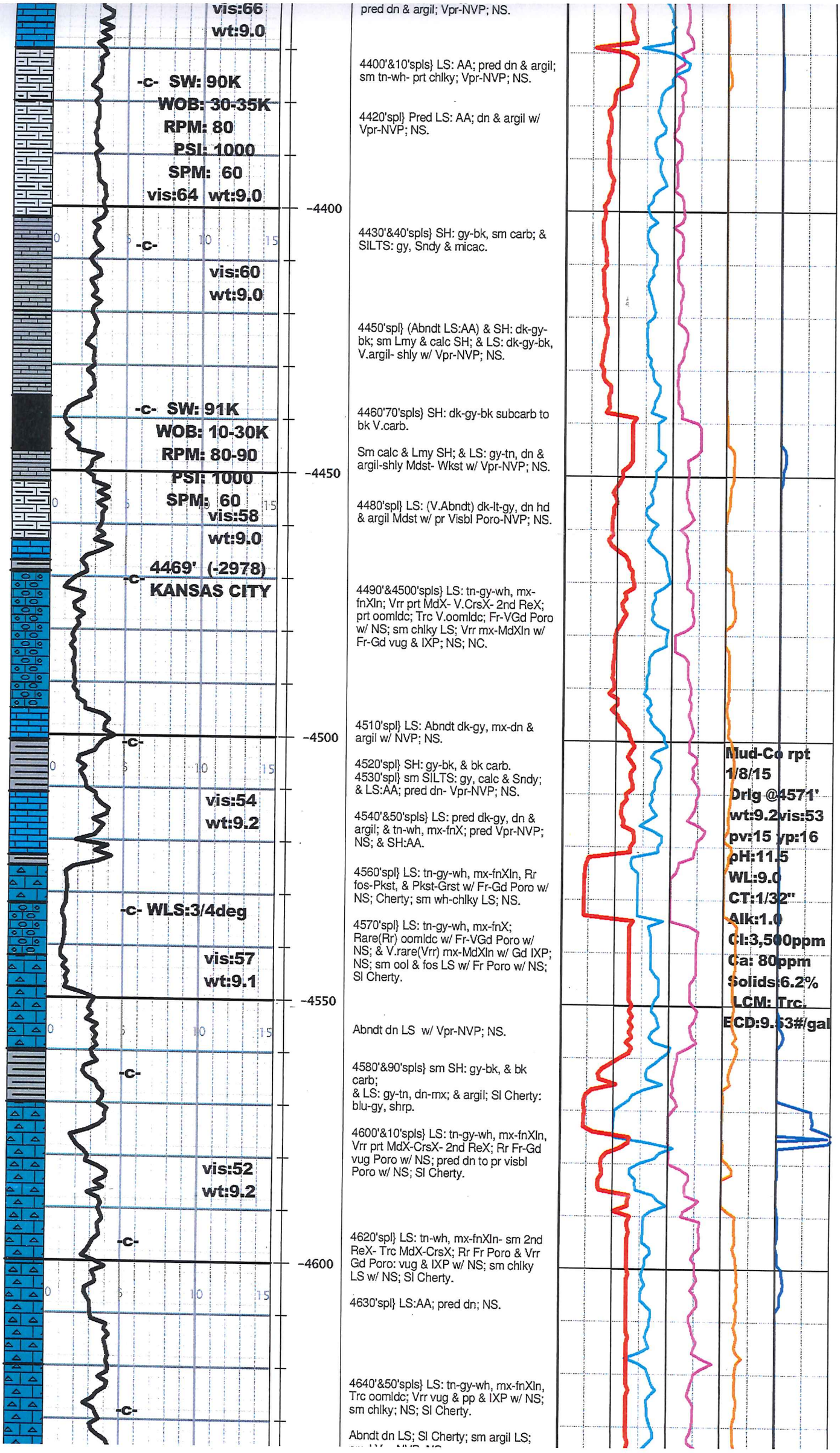
4330'&40'&50'spls} {LANS} LS: gy-tn-cm, mx-fnXln, Vrr prt ool & prt oomldc w/ Fr-Gd Poro; Vrr V.oomldc w/ Gd-VGd oomldc Poro w/ NS; NC. {Incrs oomldc LS in 4340'&50'spls).

LS: (sm AA) & Wkst- Pkst & sm chlky LS w/ pr Poro to NVP; NS;

& LS: gy-bn, dn & argil; Vpr-NVP; NS.

SH: AA; pred gy- bk.

4360'&70'spls} LS: tn-cm, sm Sndy: Vfn-fn Gr'd, Rnd'd- well Rnd'd; Vrr prt oomldc w/ sm vug Poro; NS.



pred dn & argil; Vpr-NVP; NS.

4400'&10'spls} LS: AA; pred dn & argil; sm tn-wh- prt chlky; Vpr-NVP; NS.

4420'spl} Pred LS: AA; dn & argil w/ Vpr-NVP; NS.

4430'&40'spls} SH: gy-bk, sm carb; & SILTS: gy, Sndy & micac.

4450'spl} (Abndt LS:AA) & SH: dk-gy-bk; sm Lmy & calc SH; & LS: dk-gy-bk, V.argil- shly w/ Vpr-NVP; NS.

4460'70'spls} SH: dk-gy-bk subcarb to bk V.carb.

Sm calc & Lmy SH; & LS: gy-tn, dn & argil-shly Mdst- Wkst w/ Vpr-NVP; NS.

4480'spl} LS: (V.Abndt) dk-lt-gy, dn hd & argil Mdst w/ pr Visbl Poro-NVP; NS.

4490'&4500'spls} LS: tn-gy-wh, mx-fnXln; Vrr prt MdX- V.CrsX- 2nd ReX; prt oomldc; Trc V.oomldc; Fr-VGd Poro w/ NS; sm chlky LS; Vrr mx-MdXln w/ Fr-Gd vug & IXP; NS; NC.

4510'spl} LS: Abndt dk-gy, mx-dn & argil w/ NVP; NS.

4520'spl} SH: gy-bk, & bk carb.
4530'spl} sm SILTS: gy, calc & Sndy; & LS:AA; pred dn- Vpr-NVP; NS.

4540'&50'spls} LS: pred dk-gy, dn & argil; & tn-wh, mx-fnX; pred Vpr-NVP; NS; & SH:AA.

4560'spl} LS: tn-gy-wh, mx-fnXln, Rr fos-Pkst, & Pkst-Grst w/ Fr-Gd Poro w/ NS; Cherty; sm wh-chlky LS; NS.

4570'spl} LS: tn-gy-wh, mx-fnX; Rare(Rr) oomldc w/ Fr-VGd Poro w/ NS; & V.rare(Vrr) mx-MdXln w/ Gd IXP; NS; sm ool & fos LS w/ Fr Poro w/ NS; Sl Cherty.

Abndt dn LS w/ Vpr-NVP; NS.

4580'&90'spls} sm SH: gy-bk, & bk carb;
& LS: gy-tn, dn-mx; & argil; Sl Cherty: blu-gy, shrp.

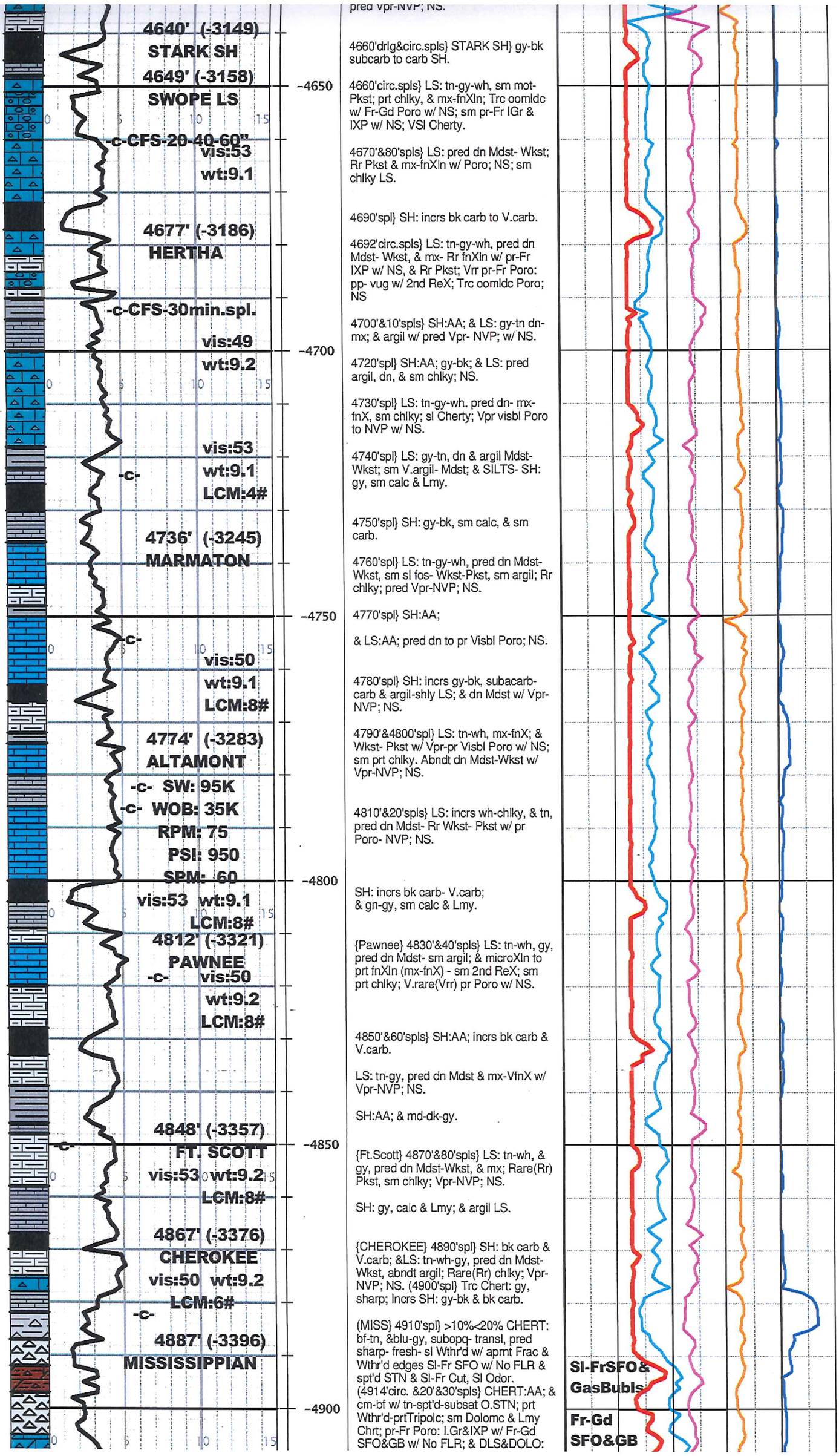
4600'&10'spls} LS: tn-gy-wh, mx-fnXln, Vrr prt MdX-CrsX- 2nd ReX; Rr Fr-Gd vug Poro w/ NS; pred dn to pr visbl Poro w/ NS; Sl Cherty.

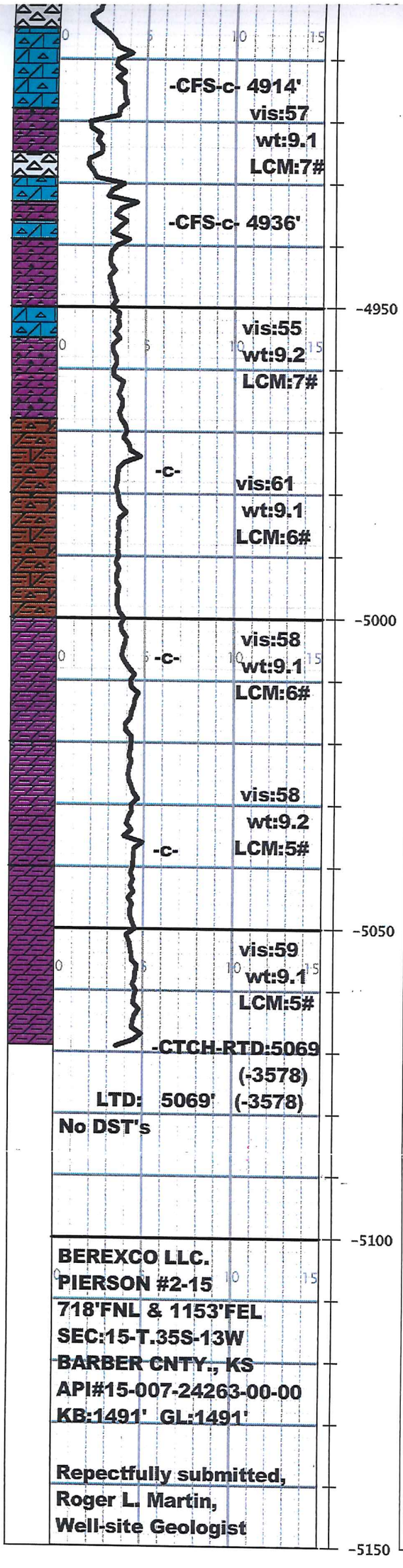
4620'spl} LS: tn-wh, mx-fnXln- sm 2nd ReX- Trc MdX-CrsX; Rr Fr Poro & Vrr Gd Poro: vug & IXP w/ NS; sm chlky LS w/ NS; Sl Cherty.

4630'spl} LS:AA; pred dn; NS.

4640'&50'spls} LS: tn-gy-wh, mx-fnXln, Trc oomldc; Vrr vug & pp & IXP w/ NS; sm chlky; NS; Sl Cherty.

Abndt dn LS; Sl Cherty; sm argil LS;


4640' (-3149)
STARK SH
4649' (-3158)
SWOPE LS
-c-CFS-20-40-60"
vis:53
wt:9.1
4677' (-3186)
HERTHA
-c-CFS-30min.spl.
vis:49
wt:9.2
vis:53
-c-
wt:9.1
LCM:4#
4736' (-3245)
MARMATON
-c-
vis:50
wt:9.1
LCM:8#
4774' (-3283)
ALTAMONT
-c- SW: 95K
-c- WOB: 35K
RPM: 75
PSI: 950
SPM: 60
vis:53 wt:9.1
LCM:8#
4812' (-3321)
PAWNEE
-c-
vis:50
wt:9.2
LCM:8#
4848' (-3357)
-c-
FT. SCOTT
vis:53 wt:9.2
LCM:8#
4867' (-3376)
CHEROKEE
vis:50 wt:9.2
LCM:6#
-c-
4887' (-3396)
MISSISSIPPIAN
-4650
-4700
-4750
-4800
-4850
-4900
0
5
10
15
pred Vpr-NVP; NS.
4660'drlg&circ.spls} STARK SH} gy-bk subcarb to carb SH.
4660'circ.spls} LS: tn-gy-wh, sm mot-Pkst; prt chlky, & mx-fnXln; Trc oomldc w/ Fr-Gd Poro w/ NS; sm pr-Fr lGr & lXP w/ NS; VSl Cherty.
4670'&80'spls} LS: pred dn Mdst- Wkst; Rr Pkst & mx-fnXln w/ Poro; NS; sm chlky LS.
4690'spl} SH: incrs bk carb to V.carb.
4692'circ.spls} LS: tn-gy-wh, pred dn Mdst- Wkst, & mx- Rr fnXln w/ pr-Fr lXP w/ NS, & Rr Pkst; Vrr pr-Fr Poro: pp- vug w/ 2nd ReX; Trc oomldc Poro; NS
4700'&10'spls} SH:AA; & LS: gy-tn dn-mx; & argil w/ pred Vpr- NVP; w/ NS.
4720'spl} SH:AA; gy-bk; & LS: pred argil, dn, & sm chlky; NS.
4730'spl} LS: tn-gy-wh. pred dn- mx-fnX, sm chlky; sl Cherty; Vpr visbl Poro to NVP w/ NS.
4740'spl} LS: gy-tn, dn & argil Mdst-Wkst; sm V.argil- Mdst; & SILTS- SH: gy, sm calc & Lmy.
4750'spl} SH: gy-bk, sm calc, & sm carb.
4760'spl} LS: tn-gy-wh, pred dn Mdst-Wkst, sm sl fos- Wkst-Pkst, sm argil; Rr chlky; pred Vpr-NVP; NS.
4770'spl} SH:AA;
& LS:AA; pred dn to pr Visbl Poro; NS.
4780'spl} SH: incrs gy-bk, subacarb-carb & argil-shly LS; & dn Mdst w/ Vpr-NVP; NS.
4790'&4800'spl} LS: tn-wh, mx-fnX; & Wkst- Pkst w/ Vpr-pr Visbl Poro w/ NS; sm prt chlky. Abndt dn Mdst-Wkst w/ Vpr-NVP; NS.
4810'&20'spls} LS: incrs wh-chlky, & tn, pred dn Mdst- Rr Wkst- Pkst w/ pr Poro- NVP; NS.
SH: incrs bk carb- V.carb;
& gn-gy, sm calc & Lmy.
{Pawnee} 4830'&40'spls} LS: tn-wh, gy, pred dn Mdst- sm argil; & microXln to prt fnXln (mx-fnX) - sm 2nd ReX; sm prt chlky; V.rare(Vrr) pr Poro w/ NS.
4850'&60'spls} SH:AA; incrs bk carb & V.carb.
LS: tn-gy, pred dn Mdst & mx-VfnX w/ Vpr-NVP; NS.
SH:AA; & md-dk-gy.
{Ft.Scott} 4870'&80'spls} LS: tn-wh, & gy, pred dn Mdst-Wkst, & mx; Rare(Rr) Pkst, sm chlky; Vpr-NVP; NS.
SH: gy, calc & Lmy; & argil LS.
{CHEROKEE} 4890'spl} SH: bk carb & V.carb; &LS: tn-wh-gy, pred dn Mdst-Wkst, abndt argil; Rare(Rr) chlky; Vpr-NVP; NS. (4900'spl} Trc Chert: gy, sharp; Incrs SH: gy-bk & bk carb.
(MISS} 4910'spl} >10%<20% CHERT: bf-tn, &blu-gy, subopq- transl, pred sharp- fresh- sl Wthr'd w/ aprnt Frac & Wthr'd edges Sl-Fr SFO w/ No FLR & spt'd STN & Sl-Fr Cut, Sl Odor. (4914'circ. &20'&30'spls} CHERT:AA; & cm-bf w/ tn-spt'd-subsat O.STN; prt Wthr'd-prtTripolc; sm Dolomc & Lmy Chrt; pr-Fr Poro: l.Gr&lXP w/ Fr-Gd SFO&GB w/ No FLR; & DLS&DOLO:
Sl-FrSFO&
GasBubls
Fr-Gd
SFO&GB



Wthr'd-prtTriplc; sm Dolomc & Lmy Chrt; pr-Fr Poro: l.Gr&IXP w/ Fr-Gd SFO&GB w/ No FLR; & DLS&DOLO: bf-tn, mx- VfnXln, sm silic & Cherty w/ Fr Poro: m-lGr&IXP w/ spt'd-subsat STN w/ NF; Fr-Gd SFO &GB w/ NF; Fr Odor. (4936'circ.spls} DOLO-DLS: bf-tn, mx-VfnXln, silic & chrty, Fr-Gd m-IXP & m-lGr. Poro w/ spt'd- sat STN & Fr-Gd SFO&GB w/ NF; & Fr-Gd Cut; & CHERT: wh-bf-tn, & blu-gy, pred Wthr'd prt Triplc to V.Triplc w/ Rr Fr-Gd Poro: lGr & pp w/ subsat- sat STN w/ NF & Fr-Gd SFO &GB, Fr-Gd Cut, Fr Odor; Sm fresh-vit-shrp-sl Wthr'd w/ sptd STN & SlSFO w/ NF. {4950'&60'&70'spls} DOLO-DLS: cm-bf-gy, mx-VfnXln, sm silic, Chrty, pred pr-Fr visbl Poro: IXP & pp w/ spt'd- subsat STN & SlSFO&GB w/ NF & Sl Cut; & CHERT:AA; Rare(Rr) prt Wthr'd & prt fresh, & Rr Triplc w/ Fr-Gd Poro w/ spt'd- sat STN & Sl-Fr SFO &GB, w/NF & Sl-Fr Cut, Sl Odor.

{4980'&90'&5000'spls} DOLO: cm-bf-gy, mx-VfnXln, sm micro(m-)sucro w/ pr visbl Poro: m-IXP & pin point(pp) Poro w/ Rr SlSFO & spt'd- subsat STN w/ NF; & Sl Cut; pred barren w/ pr Poro to No Visbl Poro(NVP); sm argil- silty; & sm Chrty:AA & dolomc; Rr Poro w/ SlSFO & STN w/ NF, & Sl-Fr Cut, Vsl Odor.

{5010'&20'spls} DOLO & DLS:AA; incrs microXln(mx) silty-argil w/ Vpr-NVP & pred Barren; Rare(Rr) ~10% DOLO & CHERT: AA w/ SlSFO & STN w/ NF; & Sl-Fr Cut; Trc Odor.

{5020'&30'spls} (Vrr <5% DLS-DOLO&CHERT:AA w/ SFO-STN-Cut) DLS-DOLO: Abndt dk-lt-gy, microXln(mx) - dn & argil w/ pred Vpr Poro- NVP w/ NS.

{5040'&50'spls} [Very rare{Vrr} <5% DLS-DOLO&Chert:AA w/ Poro w/ SFO-STN& Cut]
Pred DLS-DOLO: dk-lt-gy, mx - dn & argil to V.argil, & sm shly, w/ pred Vpr-NVP w/ NS; & sm calc & dolomc SH.

{5060'&69'drlg.spls} {<5% (Vrr) DLS-DOLO&Chert:AA w/ SFO-STN-Cut)
Pred Dolomitic LS: (DLS) - DOLO: dk-lt-gy, dn- mx; argil- V.argil w/ Pred Vpr-NVP w/ NS;
Sm shly:AA & SH:AA.

{5069'circ.spls} DLS-DOLO:AA; Trc (<2%) argil DLS-DOLO:AA w/ pr- Vpr visbl Poro: m-IXP w/ Trc SFO- STN & Cut.

Fr-Gd SFO&GB
Fr-Gd SFO/GB
Fr-Gd SFO&GB
Sl-Fr SFO/GB
SlSFO
SlSFO
SlSFO
SlSFO
SlSFO
SlSFO
TrcSFO
TrcSFO
TrcSFO
TrcSFO
TrcSFO
TrcSFO
TrcSFO

RTD/LTD: 5069 (-3578)

Mud-Co rpt on 1/9/15@CFS@4914'
wt:9.1 vis:52 pv:15 yp:17
pH:10.5 WL:8.8 CT:1/32" Alk:0.5
Cl:3,000ppm Ca:80ppm
Solids:5.5% LCM:7#/bbl

Mud-Co rpt;1/10/15@5069'E-Logs
wt:9.3 vis:57 pv:15 yp:16
pH:10.5 WL:9.0 CT:1/32" Alk:0.5
Cl:5,000ppm Ca:80ppm
Solids:6.8%
LCM:6#/bbl ECD:9.65 lb/gal.
Reserve pit: ~1,800 bbls
Cl: 44,000ppm Ca: Hvy