

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1250509
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1250509

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Pierson 2-15
Doc ID	1250509

Tops

Name	Top	Datum
Heebner Sh.(base)	3947	-2456
Toronto	3969	-2478
Lansing	4305	-2814
KS City	4464	-2973
Stark Sh.	4940	-3149
Hertha	4677	-3186
Marmaton	4736	-3245
Altamount	4774	-3283
Pawnee	4809	-3318
Ft Scott	4849	-3358
Cherokee	4866	-3375
Mississippi	4887	-3396
RTD/LTD	5069	-3578

Customer Boreico LLC	Lease No.	Date 1-3-2014
Lease Pierson	Well # 2-15	
Field Order # 11668	Station Peggs, KS	Casing 13 3/4
		Depth 330
Type Job CNWJ-13 3/8 SUIESIC	Formation 1D-335	Legal Description 15-35-13
		County Bsba
		State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
15 3/8				Pre Pad		Max		5 Min.
Depth 330	Depth	From	To	Pad		Min		10 Min.
Volume 52	Volume	From	To	Frac		Avg		15 Min.
Max Press	Max Press	From	To	HHP Used				Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush		Gas Volume		Total Load
Plug Depth 300	Packer Depth	From	To					

Customer Representative **Cris Eubank** Station Manager **Ben Eubank** Treater **Darin Franklin**

Service Units	27263	84581	15843	15862	24010				
Driver Names	Darin	E2	E2	Bosky	Bosky				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00am					on location / setup machine
					170SK D Series Line, 6% Gel, 3% CC
					1/4 H Cellulose 13 DPs, 1.22 veils, 9.15 wslr
					100SK common 2% cc, 1/4 H Cellulose
					15.6 DPs, 1.20 veils, 5.23 wslr
1:00pm	300		3	5	Pump 3 bbls water
	300		34	5	mix 170SK less cement
	300		21	5	mix 100SK 15.1 cement
	300		48 1/2	5	D, S D / 100 wslr
					shut in
					Cement die circulation 10 bbls
3:00pm					Job complete / Darin & crew
					Thank you!!!

Customer <i>BERRYCO LLC</i>	Lease No.	Date <i>1/11/15</i>	
Lease <i>12106A</i>	Well # <i>2-15</i>		
Field Order # <i>12106A</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>	Depth <i>5065</i>
Type Job <i>5 1/2 Long string</i>	Formation <i>PNW</i>	County <i>Darwin</i>	State <i>KS</i>
		Legal Description <i>15 35 13</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>				Pre Pad	Max		5 Min.	
Depth <i>5065</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>119.87</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>2100</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative: *Ramon* Station Manager: *Kevin Giddon* Treater: *Scott Coates*

Service Units	<i>3876</i>	<i>7865</i>	<i>1427</i>						
Driver Names	<i>Scott</i>	<i>Mark</i>	<i>Felix</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:00</i>					<i>in location safety meeting, dig</i>
<i>10:00</i>					<i>Dig start equipment</i>
<i>11:20</i>					<i>Circulate half way 15 minutes</i>
<i>1:10</i>					<i>Circulate on bottom 45 minutes</i>
<i>2:00</i>	<i>0</i>		<i>6</i>	<i>3</i>	<i>Plug mouse hole 20 SKS A 5000</i>
<i>2:05</i>	<i>0</i>		<i>9</i>	<i>3</i>	<i>Plug Rat hole 30 SKS A 5000</i>
<i>2:20</i>	<i>300</i>			<i>5.6</i>	<i>Mix 100SKS A 5000 1.5 bag</i>
<i>2:29</i>	<i>350</i>		<i>30.9</i>	<i>5.7</i>	<i>Mix 200SKS A 5000 1.5 bag</i>
<i>2:38</i>	<i>0</i>		<i>30.9</i>		<i>shut down</i>
					<i>which pump & lines clear</i>
					<i>Release Plug</i>
<i>2:41</i>	<i>50</i>			<i>6.3</i>	<i>Start Displacement</i>
	<i>350</i>		<i>66</i>	<i>6.1</i>	<i>1st Pressure</i>
	<i>750</i>		<i>49</i>	<i>3.4</i>	<i>Reduce Rate</i>
<i>3:00</i>	<i>900</i>		<i>10</i>	<i>3.1</i>	<i>Plug landed</i>
<i>3:00</i>	<i>1150</i>				<i>Pressure up on plug</i>
<i>3:01</i>					<i>Release Pressure</i>
					<i>NO Returns</i>
					<i>shut down</i>
					<i>Job Complete</i>

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)

CASING

SURFACE 13&3/8" @ 329'

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

ELECTRICAL SURVEYS

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

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
*B/ HEEBNER SH (*BEREXCO PICK)	3947' (-2456)	3947' (-2456)	12/30/14: MIRD Spud 17&1/2" hole; drlg to 329'; Ran 13&3/8" surf.csg; set @ 329KB; WOC; Shut dwn.
TORONTO	3969' (-2478)	3968' (-2477)	1/3/15; WOC @ 329' @ 9:30AM.
LANSING	4305' (-2814)	4305' (-2814)	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'
KANSAS CITY	4464' (-2973)	4469' (-2978)	1/5/15: Drlg@ 2425' @ 8:45am; Md.wt:9.5; vis:29; Cl:68,000ppm; Ca:Hvy; Solids:4.5%; LCM:0
STARK SH	4640' (-3149)	4640' (-3149)	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'
HERTHA	4677' (-3186)	4677' (-3186)	1/7/15: Drlg@ 3998' @ 9:45am. Survey:3/4@3998' (see below, on log, for Mud-Co report)
MARMATON	4736' (-3245)	4736' (-3245)	1/8/15: Drlg@ 4571' @ 9:30am. (3/4deg@4593')
ALTAMONT	4774' (-3283)	4774' (-3283)	1/9/15: CFS @ 4914' @ 10:00am.
PAWNEE	4809' (-3318)	4812' (-3321)	1/10/15: E-Logs@ 9:00am; RTD<D: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.
FT. SCOTT	4849' (-3358)	4848' (-3357)	1/11/15; SEE "REMARKS" section below for cmt details; Plug landed @ 3:00 AM, 1/11/15.
CHEROKEE	4866' (-3375)	4867' (-3376)	
MISSISSIPPIAN CHERT	4887' (-3396)	4887' (-3396)	
TOTAL DEPTH (LTD/RTD)	5069' (-3578)	5069' (-3578)	

REMARKS:

1/10/15: RTD<D: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 tailed 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 0

DRILLING TIME
ROP MIN/FT
Gamma

150

DST

SAMPLE DESCRIPTION

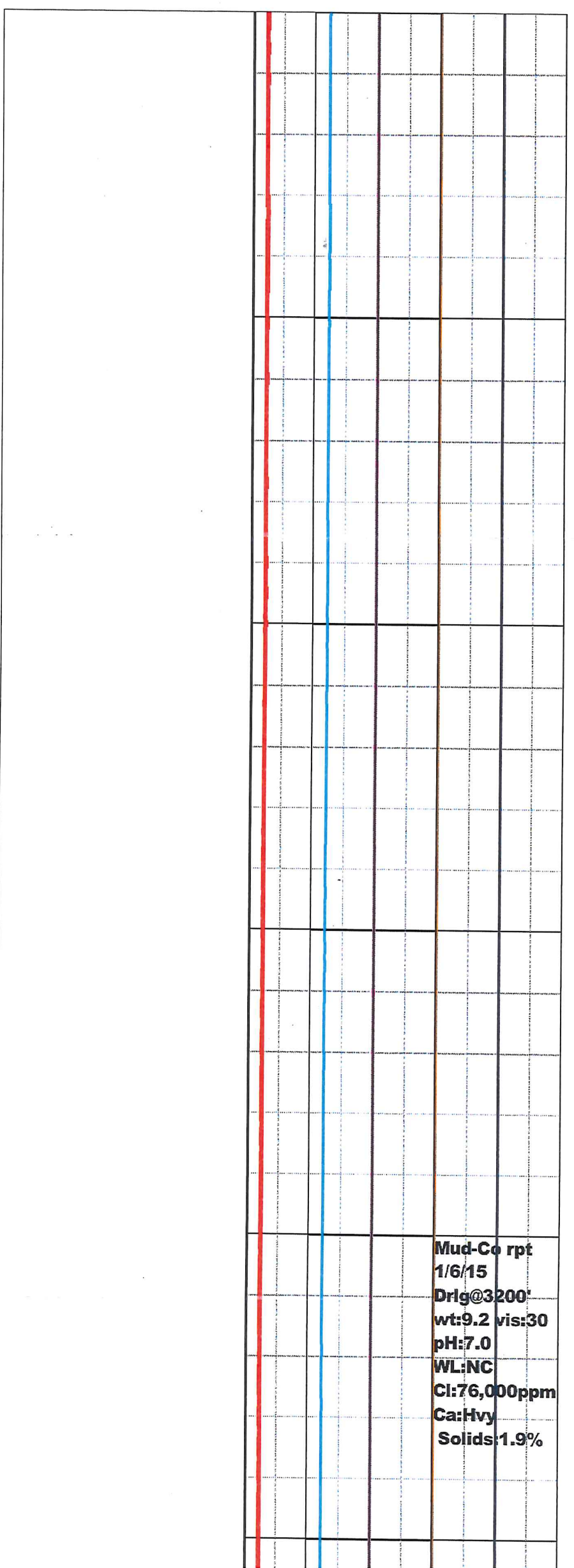
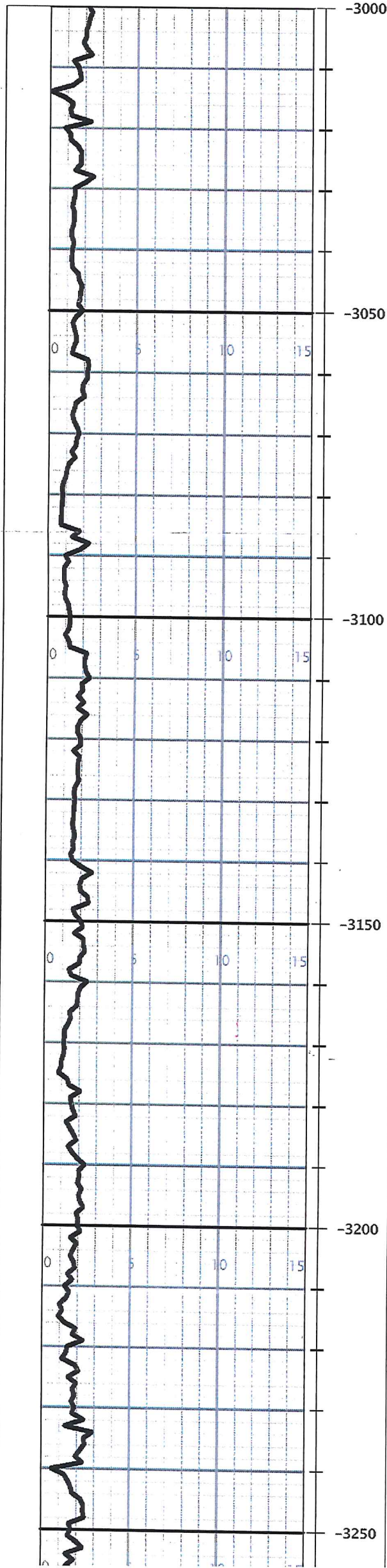
Total Gas
0-100 Units

Methane
0-100 Units

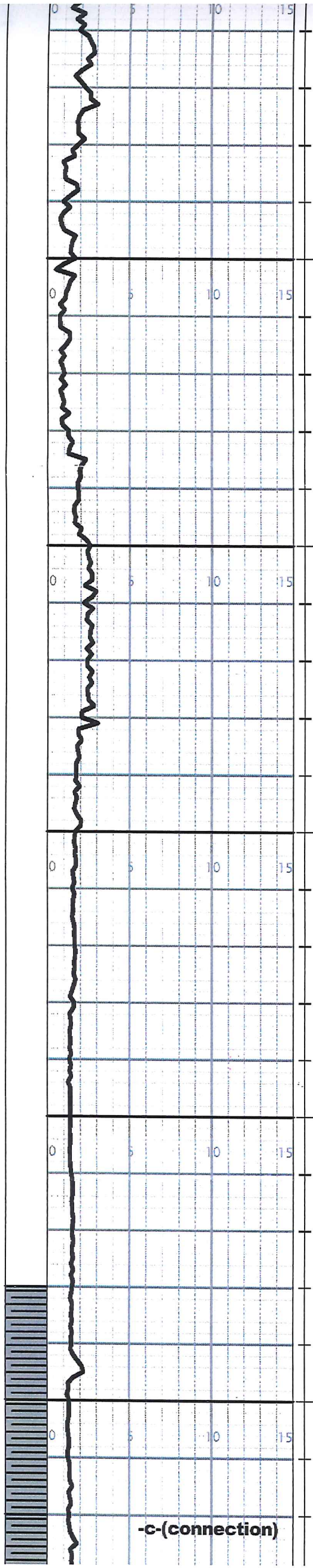
Ethane
0-100 Units

Propane
0-50 Units

Butane
0-50 Units



Mud-Co rpt
 1/6/15
 Drlg@3200'
 wt:9.2 vis:30
 pH:7.0
 WL:NC
 Cl:76,000ppm
 Ca:Hvy
 Solids:1.9%



-3300

-3350

-3400

-3450

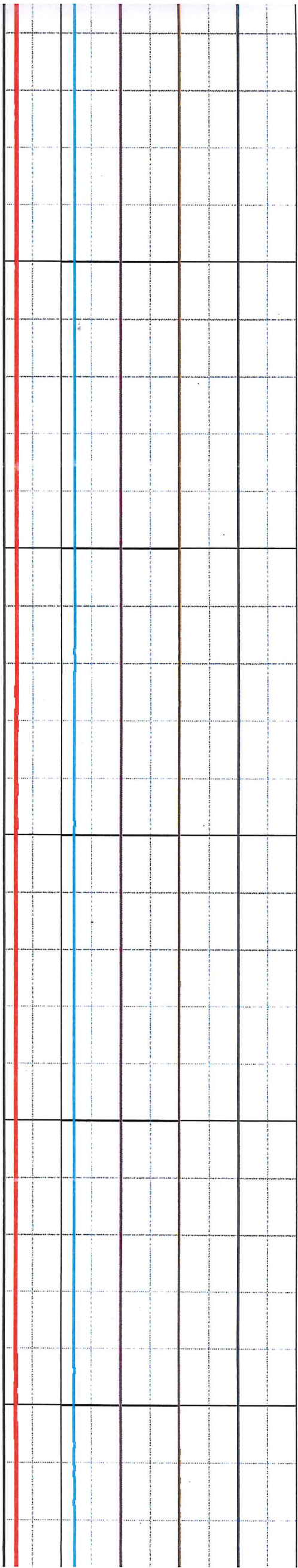
-3500

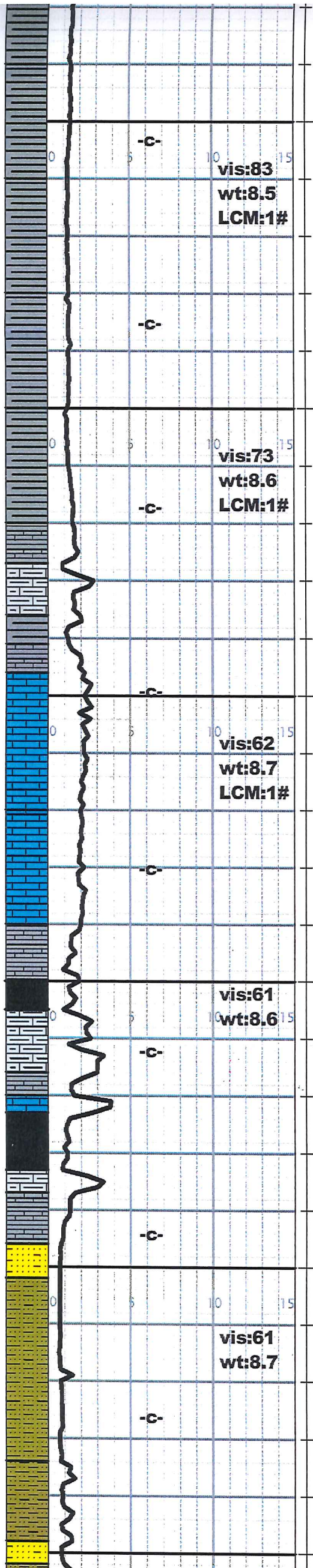
-c-(connection)

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.





-3550

-3600

-3650

-3700

-3750

-3800

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, & semichky 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, & subchky 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.

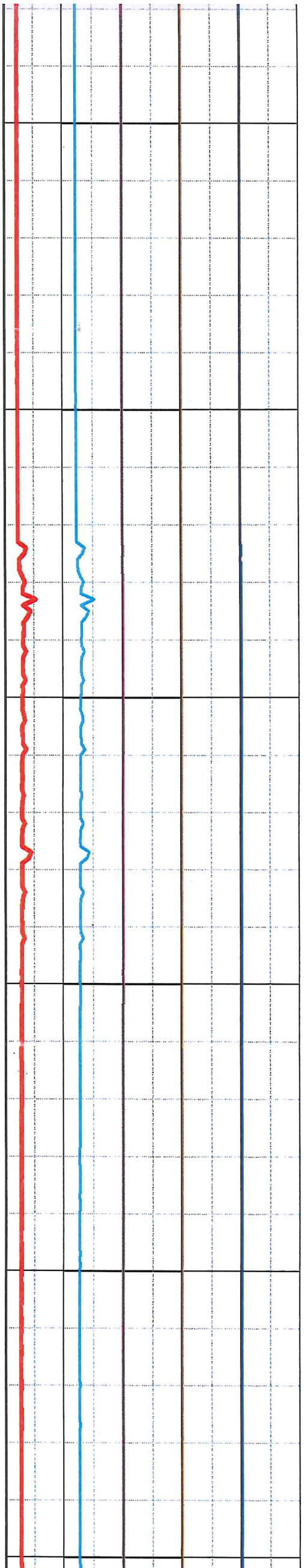
3780'spl} SH:AA; Incrs bk carb; sm calc & Lmy; & LS:AA; sl incrs dn & argil; sm LS: gy, dn & argil- Mdst, & mx- dn LS.

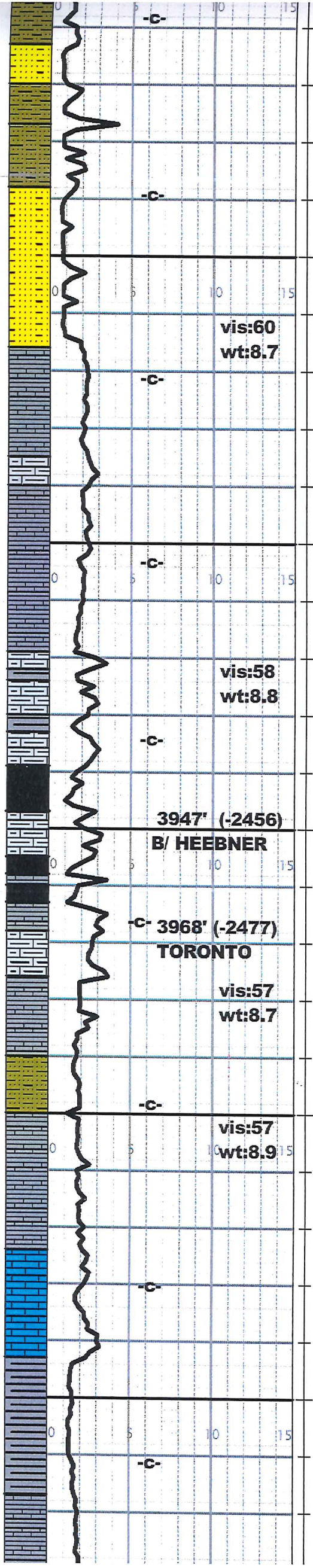
3800'spl} SH-SILTS: dk-lt-gy, sm calc & Lmy, sm bk carb SH.

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.

3850

vis:60
wt:8.7

3920'spl} (Frlly 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).

3900

vis:58
wt:8.8

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.

3950

3947' (-2456)
B/ HEEBNER

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.

4000

vis:57
wt:8.7

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).

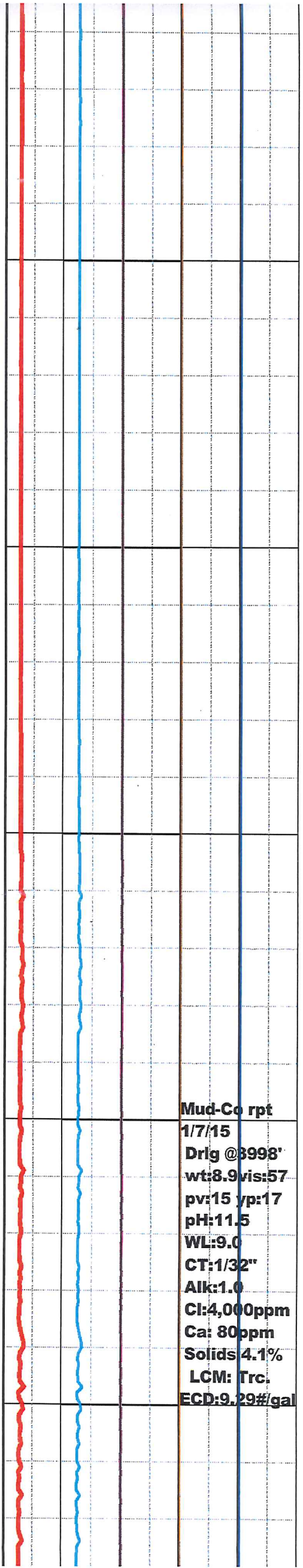
4080'spl} LS:AA; incrs cm-tn, Pkst & Vrr Grst; fos w/ pred pr-Fr Visbl Poro w/ NS.

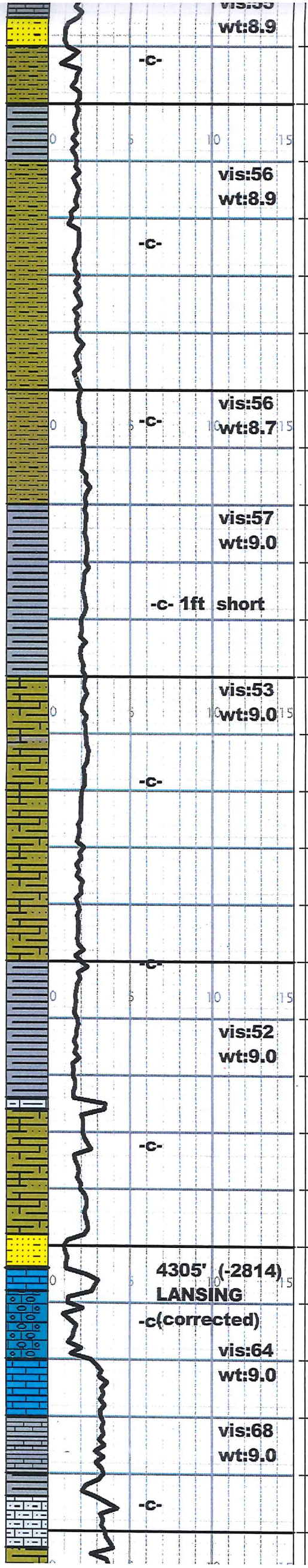
4050

vis:57
wt:8.9

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.





vis:55
wt:8.9

-c-

-4100 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.

-c-

-4150 vis:56
wt:8.7

-c-

4180'spl} SH-SILTS:AA;

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

vis:57
wt:9.0

-c- 1ft short

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

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

-4200 vis:53
wt:9.0

-c-

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.

-4250 vis:52
wt:9.0

-c-

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.

-c-

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.

-4300 4305' (-2814)
LANSING
-c(corrected)

vis:64
wt:9.0

vis:68
wt:9.0

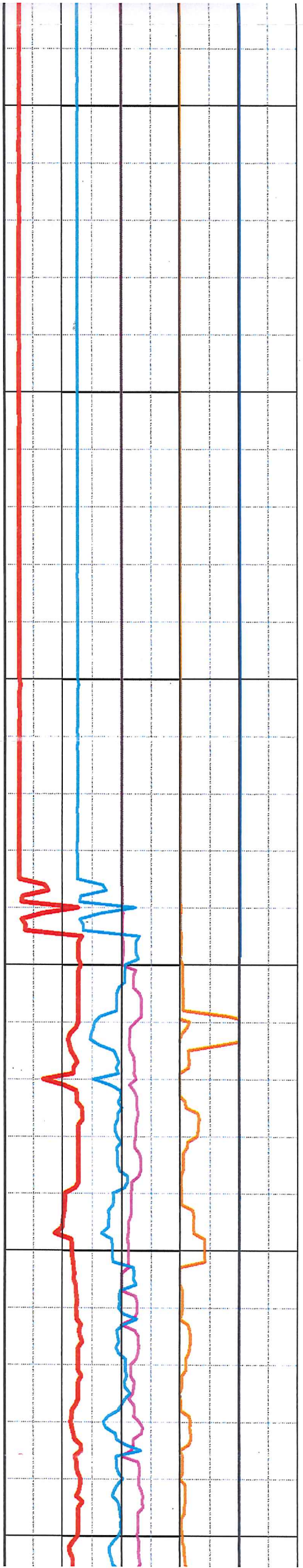
-c-

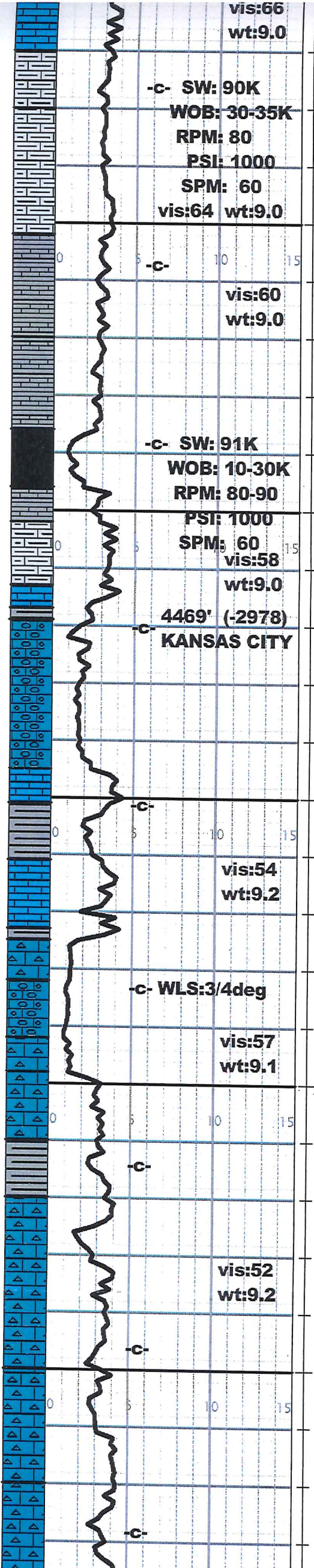
LS: (sm AA) & Wkst- Pkst & sm chlky LS w/ pr Poro to NVP; NS;

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

SH: AA; pred gy- bk.

-4350 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 chky; 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 chky 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; SI Cherty.

Abndt dn LS w/ Vpr-NVP; NS.

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

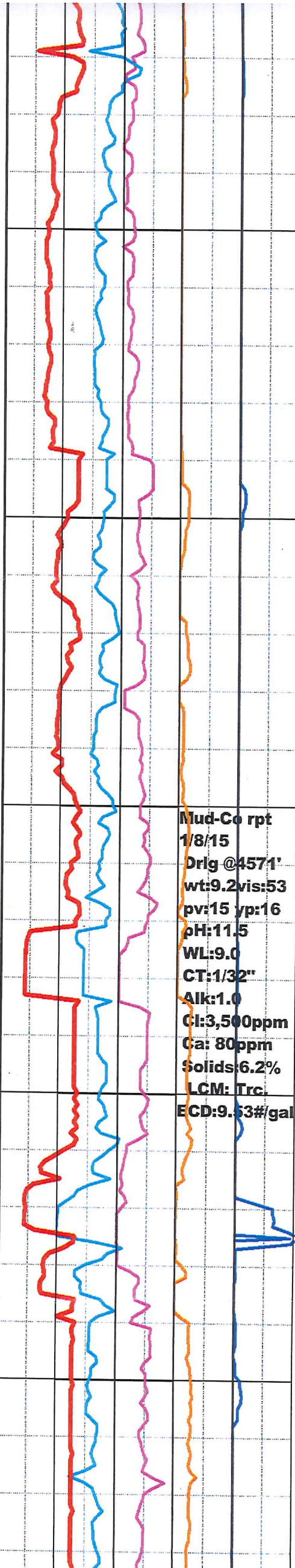
4600'&10'spls) LS: tn-gy-wh, mx-fnXln, Vrr prt MdX-CrsX- 2nd ReX; Rr Fr-Gd vug Poro w/ NS; pred dn to pr visbl Poro w/ NS; SI Cherty.

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

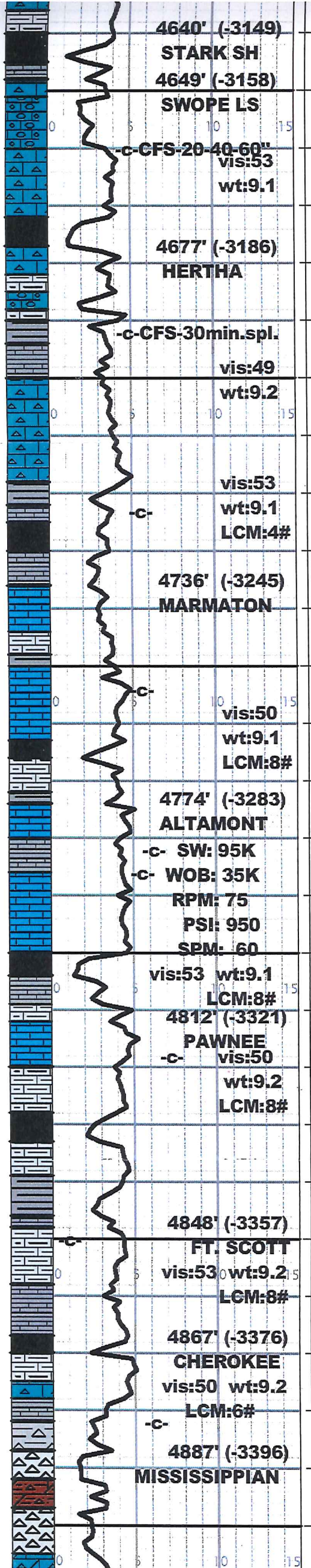
4630'spl) LS:AA; pred dn; NS.

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

Abndt dn LS; SI Cherty; sm argil LS;



Mud-Co rpt
1/8/15
Drig @4571'
wt:9.2 vis:53
pv:15 yp:16
pH:11.5
WL:9.0
CT:1/32"
Alk:1.0
Cl:3,500ppm
Ca: 80ppm
Solids:6.2%
LCM: Trc
ECD:9.53#/gal



prea vpr-NVP; NS.

4660'drig&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 IGR & IXP w/ NS; VSI 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 IXP 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.

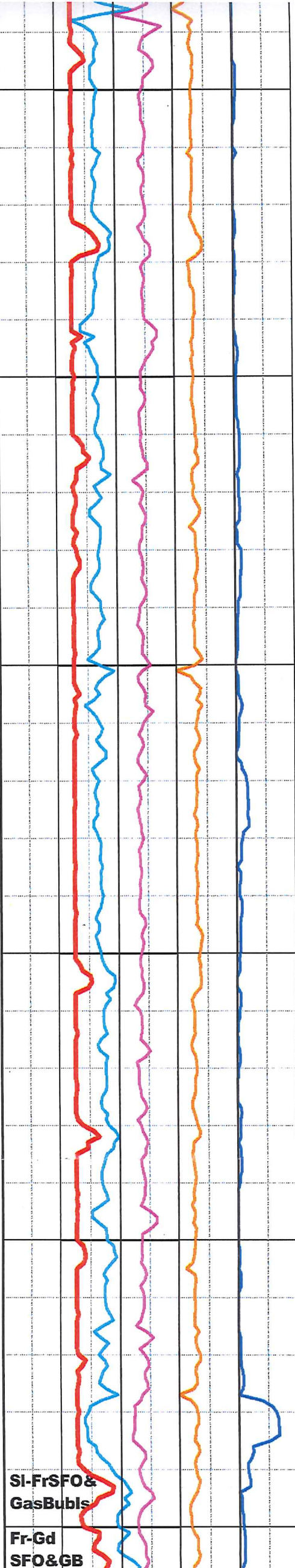
{Pawnee} 4830'&40'spls} LS: tn-wh, gy, pred dn Mdst- sm argil; & microXln to prt fnXln (mx-fnX) - sm 2nd ReX; sm prt chlky; V.rare(Vrr) pr Poro w/ NS.

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.

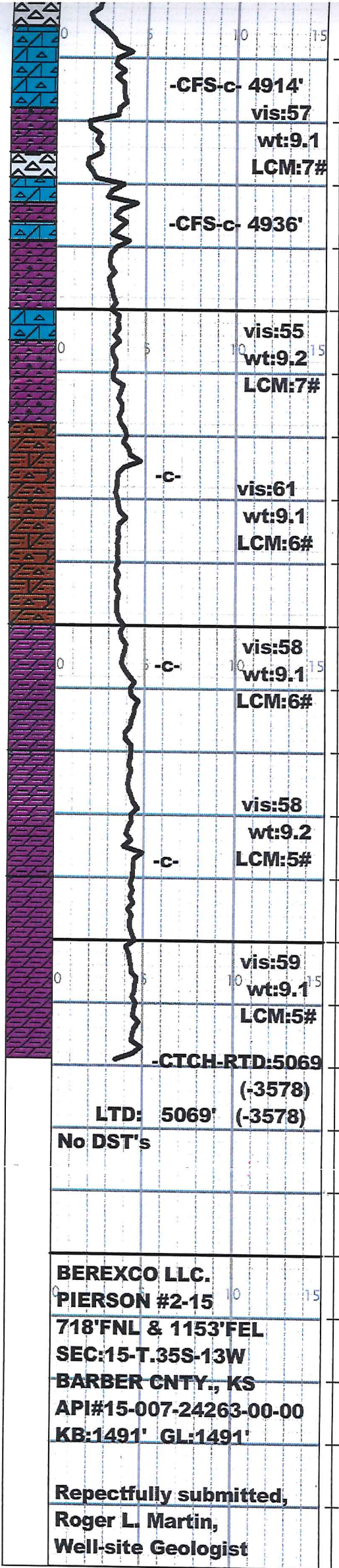
{CHEROKEE} 4890'spl} SH: bk carb & V.carb; &LS: tn-wh-gy, pred dn Mdst- Wkst, abndt argil; Rare(Rr) chlky; Vpr-NVP; NS. (4900'spl} Trc Chert: gy, sharp; Incrs SH: gy-bk & bk carb.

{MISS} 4910'spl} >10%<20% CHERT: bf-tn, &blu-gy, subopq- transl, pred sharp- fresh- sl Wthr'd w/ aprmt Frac & Wthr'd edges SI-Fr SFO w/ No FLR & spt'd STN & SI-Fr Cut, SI Odor. (4914'circ. &20'&30'spls} CHERT:AA; & cm-bf w/ tn-spt'd-subsat O.STN; prt Wthr'd-prtTripole; sm Dolomc & Lmy Chrt; pr-Fr Poro: l.Gr&IXP w/ Fr-Gd SFO&GB w/ No FLR; & DLS&DOLO:



SI-FrSFO&
GasBubls

Fr-Gd
SFO&GB



Wthr'd-prt Triploc; sm Dolomc & Lmy Chrt; pr-Fr Poro: I.Gr&IXP w/ Fr-Gd SFO&GB w/ No FLR; & DLS&DOLO: bf-tn, mx-VfnXln, sm silic & Cherty w/ Fr Poro: m-Igr&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 & chrt, Fr-Gd m-IXP & m-Igr. 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 Triploc to V.Triple w/ Rr Fr-Gd Poro: IGr & pp w/ subsat-sat STN w/ NF & Fr-Gd SFO &GB, Fr-Gd Cut, Fr Odor; Sm fresh-vit-shrp-sil Wthr'd w/ sptd STN & SISFO w/ NF. (4950'&60'&70'spls) DOLO-DLS: cm-bf-gy, mx-VfnXln, sm silic, Chrt, pred pr-Fr visbl Poro: IXP & pp w/ spt'd-subsat STN & SISFO&GB w/ NF & SI Cut; & CHERT:AA; Rare(Rr) prt Wthr'd & prt fresh, & Rr Triple w/ Fr-Gd Poro w/ spt'd-sat STN & SI-Fr SFO &GB, w/NF & SI-Fr Cut, SI 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 SISFO & spt'd-subsat STN w/ NF; & SI Cut; pred barren w/ pr Poro to No Visbl Poro(NVP); sm argil- silty; & sm Chrt:AA & dolomc; Rr Poro w/ SISFO & STN w/ NF, & SI-Fr Cut, Vsl Odor.

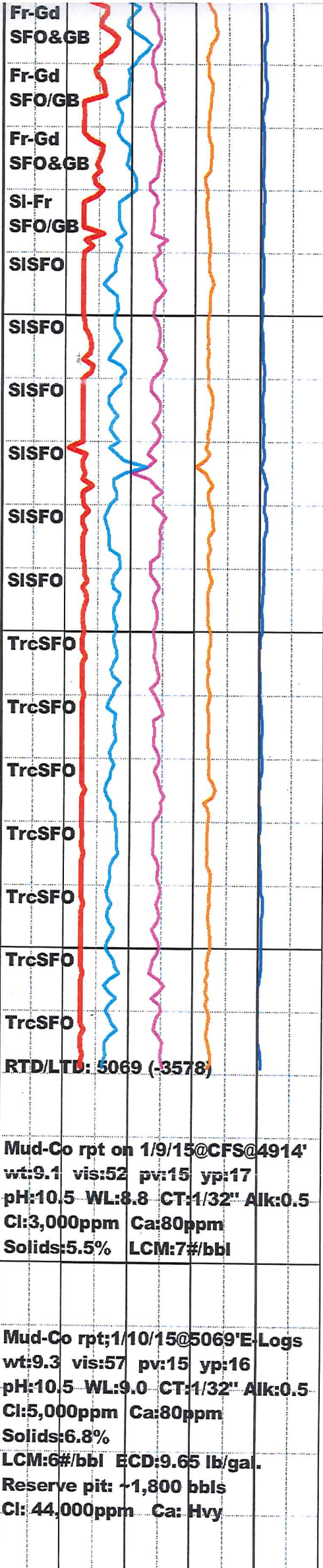
(5010'&20'spls) DOLO & DLS:AA; incrs microXln(mx) silty-argil w/ Vpr-NVP & pred Barren; Rare(Rr) ~10% DOLO & CHERT: AA w/ SISFO & STN w/ NF; & SI-Fr Cut; Trc Odor.

(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.



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

BEREXCO LLC.
 PIERSON #2-15
 718'FNL & 1153'FEL
 SEC:15-T.35S-13W
 BARBER CNTY., KS
 API#15-007-24263-00-00
 KB:1491' GL:1491'

Repectfully submitted,
 Roger L. Martin,
 Well-site Geologist