



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1191375
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: _____

1191375

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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	HERMAN L. LOEB, LLC
Well Name	SCHOOL TRUST 21-4
Doc ID	1191375

Tops

Name	Top	Datum
Heebner	3832	-2380
Stalnaker Sand	4134	-2682
Swope	4542	-3090
Cherokee Sand	4771	-3319
Mississippi Chert	4806	-3354
Woodford Shale	5178	-3726
Viola	5234	-3782
Simpson Sand	5364	-3912

LITHOLOGY STRIP LOG

WellSight Systems

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

Measured Depth Log

Well Name: Herman L. Loeb LLC. School Trust #21-4

Location: NW SE NW SW, Sec. 4-T35S-R12W, Barber Co., KS.

License Number: 15-007-24125-00-00

Region: Hardtner

Spud Date: 1/23/14

Drilling Completed: 2/2/14

Surface Coordinates: 1694' FSL & 682' FWL, Sec. 4-T35S-R12W

Bottom Hole Coordinates: Same as above

Ground Elevation (ft): 1443'

K.B. Elevation (ft): 1452'

Logged Interval (ft): 3,600' To: 5,560' Total Depth (ft): 5,560'

Formation: Simpson

Type of Drilling Fluid: Freshwater/Gel to 3,153'; Chemical Gel 3,153' to RTD.

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Herman L. Loeb, LLC.

Address: P.O. Box 838

Lawrenceville, IL. 62439-0838

815-556-0756

GEOLOGIST

Name: James R. Hall (Wellsite Supervision)

Company: Black Gold Petroleum

Address: 5530 N. Sedgwick

Wichita, KS. 67204-1828

316-217-1223

Cores

None Taken

DSTs

DST #1 Mississippi Chert, 4,819' - 4,837' (18'), 30-45-30-60, IH 2485, IF 15-19 (1" blow), ISI 142 (no blow), FF 17-24 (3.5" blow), FSI 135 (no blow), FH 2417, Rec; 170 GIP, 10' SOCM (trace oil, 99% mud), BHT 122F.

DST #2 Mississippi, 4,842' - 4,897' (55'), 15-45-30-60, IH 2512, IF 25-29 (2" blow), ISI 207 (no blow), FF 27-36 (3" blow), FSI 156 (no blow), FH 2496, Rec; 100' GIP, 20' OCM (3% oil, 97% mud), BHT 117 F.

Comments

1/22/14 MIRU Sterling Drilling Rig #4, Spud on 1/23/14.

Set new 13 3/8"(55#) Surface Casing at 264' with 300 sacks cement. Cement did Circulate.

Ran 5 1/2" production casing.

Surveys: 0.75 @ 270', 0.25 @ 987', 0.5 @ 2,070', 0.75 @ 3,312', 1.0 @ 4,837', 0.5 @ 5,049', 0.5 @ 5,560'.

BIT #1 17 1/2" to 270'. Bit #2 7 7/8" RR JZ HA-116 from 270 to 321' in 0.75 hrs. Bit #3 7 7/8" PDC- Logic PL51653 from 321' to 4,837' in 80.5 hrs. Bit #4 7 7/8" RR JZ HA-20Q from 4,837' to 5,049' in 20.25 hrs. NB #5 PDC-JZ P1616195H from 5,049' to 5,560' in 19.5 hrs.

Wiper trip @ 4,746' (40 stands), some stands were worked over 10min. Prior to DST #1 strap pipe 0.86' long to the board.

At 5,049' trip out for NB PDC and drop survey. At RTD made (15 stand) wiper trip, prior to conditioning hole and tripping out for open hole logs.

Mud Co. Brad Bortz and Terry Ison.

Open Hole Logs; Halliburton, (Liberal, Ks.) Sheldon Ingersoll.

DST's : Trilobite Testing (Pratt Office). Tester: Ryan Reynolds.

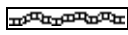
This Lithology Strip Log has been shifted 5' shallow to correlate with the Open Hole E-Logs!

E- log Tops: Heebner 3,832 (-2380), Itan 4,088 (-2636), Stalnaker SS 4,134' (-2,682'), 4,364 (-2912), Swope 4,542 (-3090), Hertha 4,569 (-3,117), Pawnee 4,704 (-3252), Cherokee Shale 4,751' (-3299), Cherokee Sand 4,771' (-3319) Mississippi Chert 4,806' (-3354), Kinderhook 5,104' (-3652), Woodford 5,178' (-3726), Viola 5,234' (-3782), Simpson Shale 5,344' (-3892), Simpson Sand 5,364' (-3912), Lower Simpson Sand 5,520' (-4068).

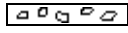
ROCK TYPES



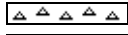
Anhy



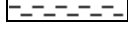
Bent



Brec



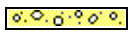
Cht



Clyst



Coal



Congl



Dol



Gyp



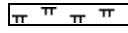
Igne



Lmst



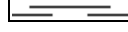
Meta



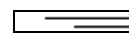
Mrlst



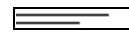
Salt



Shale



Shcol



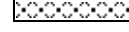
Shgy



Slstst



Ss



Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

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

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- CryxIn
- Earthy
- FinexIn
- Grainst
- Lithogr
- MicroxIn
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

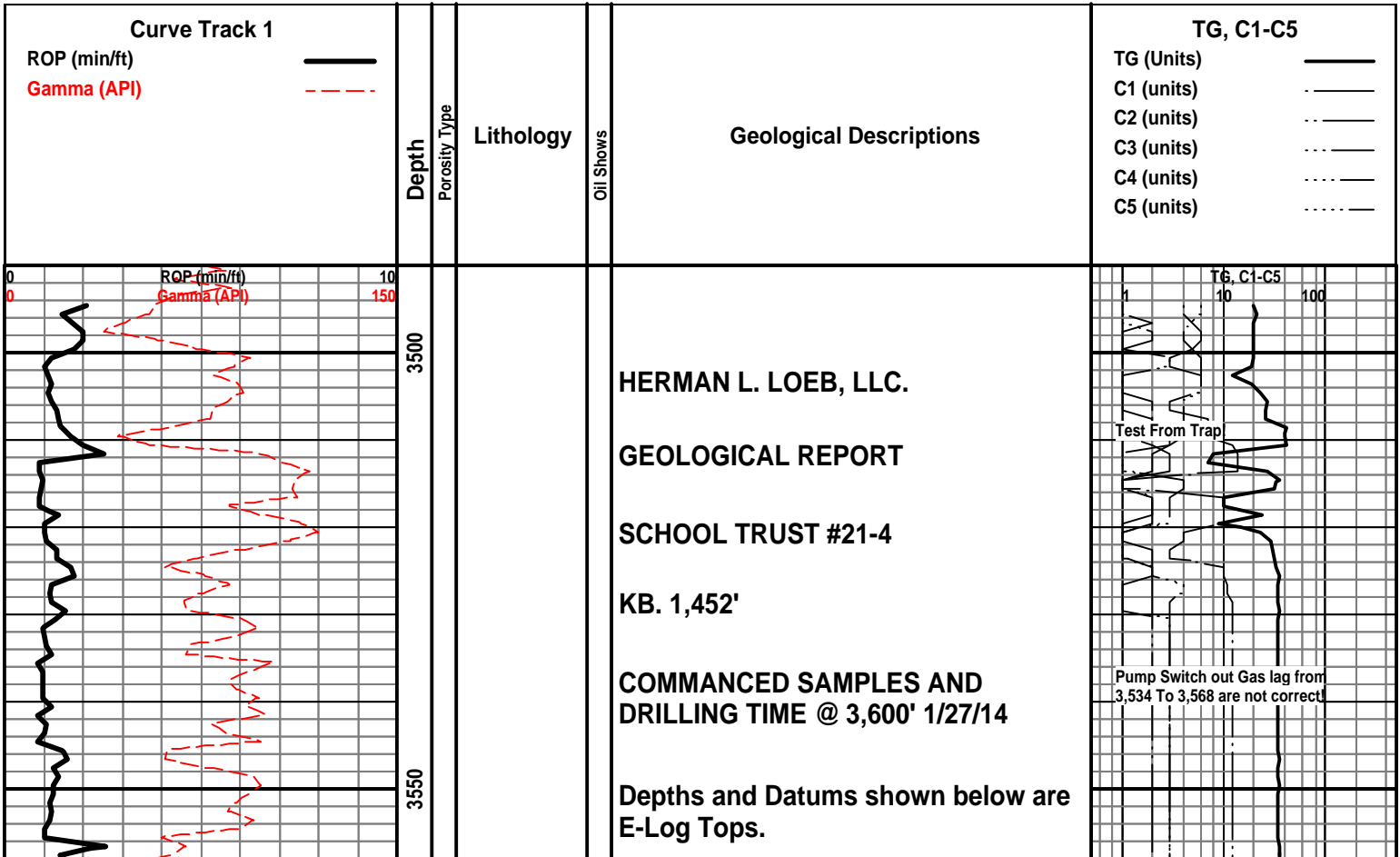
- Even
- Spotted
- Ques
- Dead

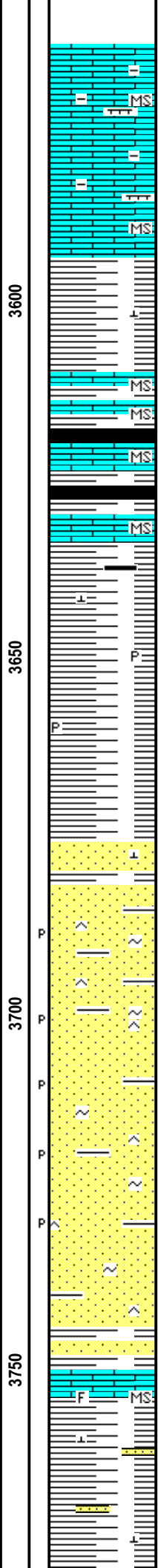
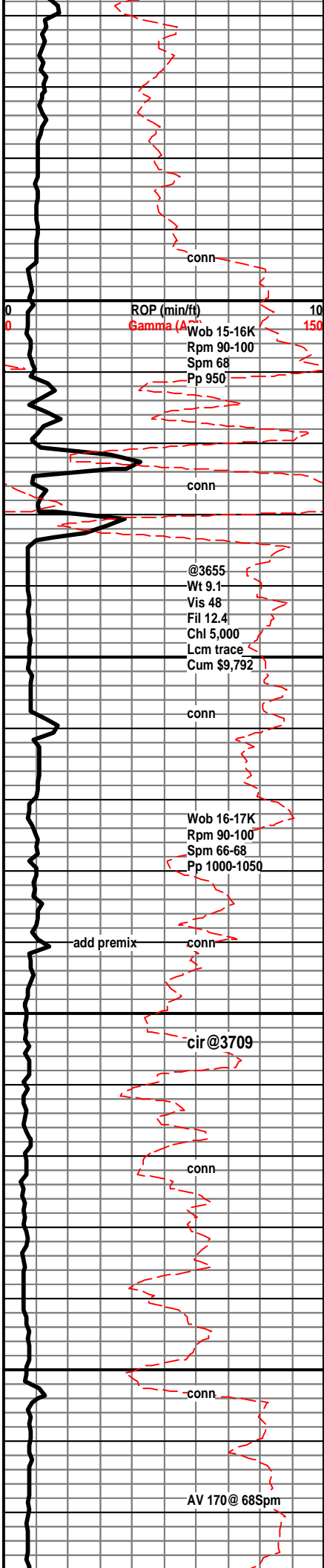
INTERVAL

- Core
- Dst

EVENT

- Rft
- Sidewall





Mudstone; gray to dark gray, highly argillaceous-marlstn, firm, sample quality poor!

Mudstone; most as above, small influx brown, chalky, hard, dull luster, sample quality is still poor!

Shale; gray to dark gray, firm, earthy texture, some calcareous.

Mudstone; light gray-argillaceous, to brown and tan, chalky.

Shale; black, carbonaceous, rare gassy when broken.

Shale; black carbonaceous, rare gas bubbles when broken.

Mudstone; gray to brown, rare tan, most chalky, rare silky-crystalline

Shale; gray to dark gray, scattered black carbonaceous soft shales.

Shale; gray to dark gray, some with carbonaceous inclusions, rare pyrite in the matrix, no visible gas bubbles.

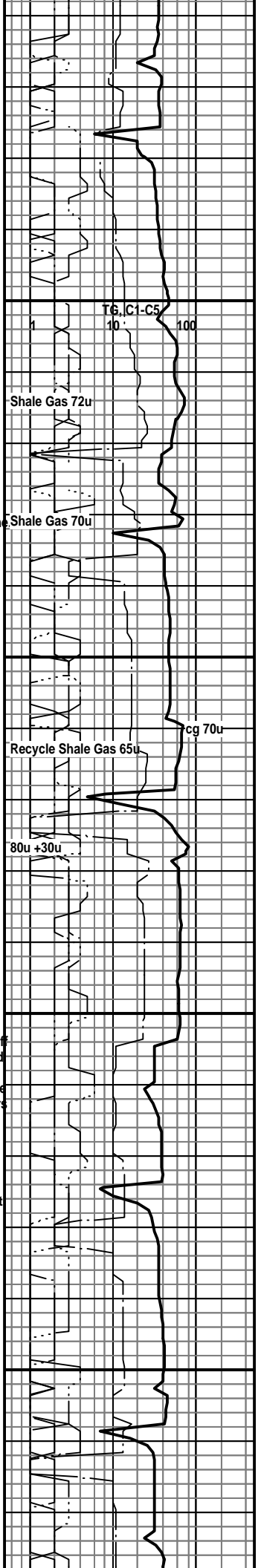
Sandstone; off white to light gray, ufg, vlsrtd, subrnd, cons to porlycons, some dark inclusions, no fluorescence, no cut on select samples, no visible show, poor sample representation here, only trace of sandstone in the 20min sample.

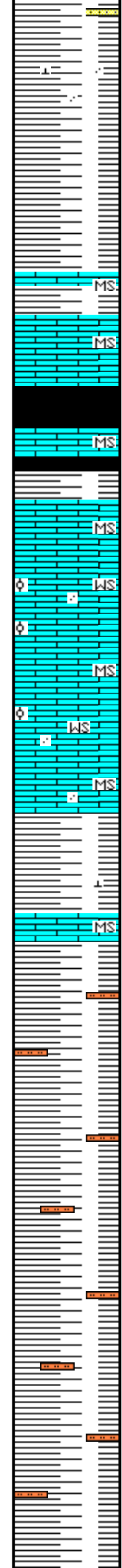
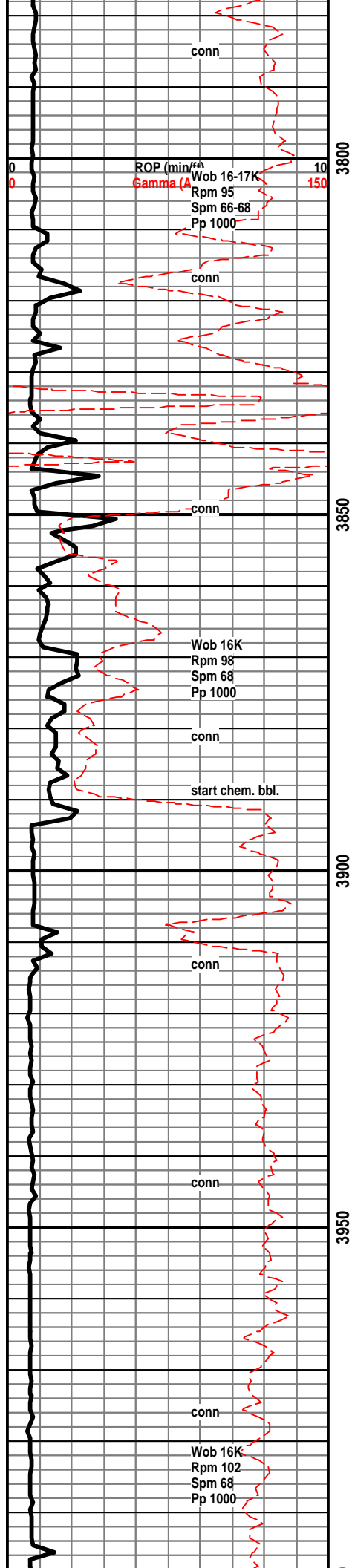
Sandstone; most gray to off white as above, slight increase in fg, off white, cons, porlycons, subrnd, no visible show, approx. 20% sand in sample, rare dull yellow mineral fluorescence-no cut on selected samples, no visible show, most silica cement, some micaceous, rare glauconite, dry sample rare barren pinpoint porosity, some clusters 1/2mm.

Sandstone; approx. 40% of sample, off white to light gray, ufg, light gray, cons, wlsrtd, some with black inclusions, off white, some fg, wlsrtd, cons to porlycons, some micaceous, rare glauconitic, no show or cut on selected samples. Shale; dark gray, black, soft to firm, earthy texture, silica cement, some clusters are 1/2mm, rare barren porosity in the dry sample.

Mudstone; rare cream to tan, fossiliferous fragments, dull mineral fluorescence.

Shale; gray to dark gray, some black, earthy texture, some arenaceous, slightly calcareous. Sandstone; stringers as above, no show.





Shale; as above, some highly arenaceous, less sandstone with dep here.

Shale; as above; slight increase in black shales, most dark gray to gray earthy texture.

Mudstone; dark gray to brown, tight, chalky texture.

Heebner 3832 (-2380)

Shale; black, carbonaceous, some gassy-hard.

Mudstone; light gray chalky, to light brown chalky to silky texture, no show.

Wackestone; off white-chlky soft, to light tan and off white, chalky micro-oolitic to sandy look, dull mineral fluorescence, no cut, no show.

Mudstone; off white to light gray mixed with micro-oolitic Wackestone, most chalky matrix, dull mineral fluorescence, no show.

Mudstone; off white, chalky, firm to brittle, tight, mineral fluorescen only, no show, mixed with Wackestone; as above.

Shale; gray to dark gray, earthy, slight influx, brown-earthy, blocky to tabular, slightly calcareous.

Mudstone; light gray chalky, to rare brown-crystalline with a silky texture, tight.

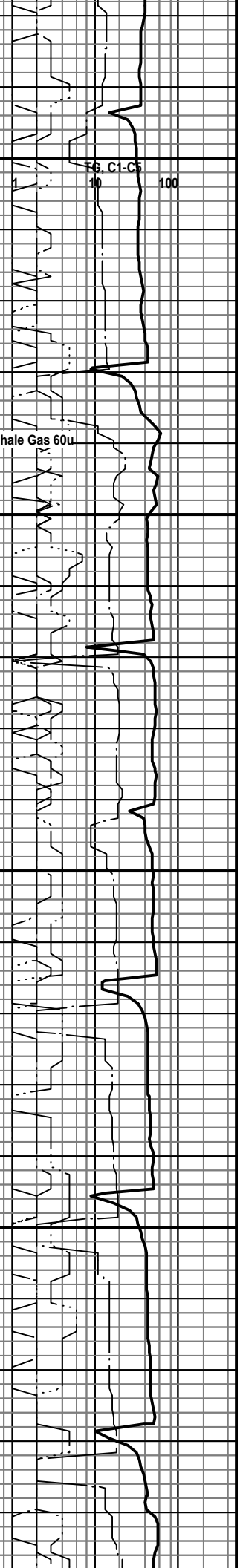
Shale; increase in light gray to gray, most soft-earthy texture, less black shales with depth, trace siltstone-cave?

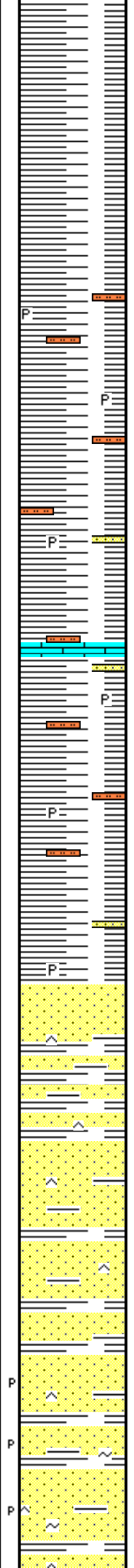
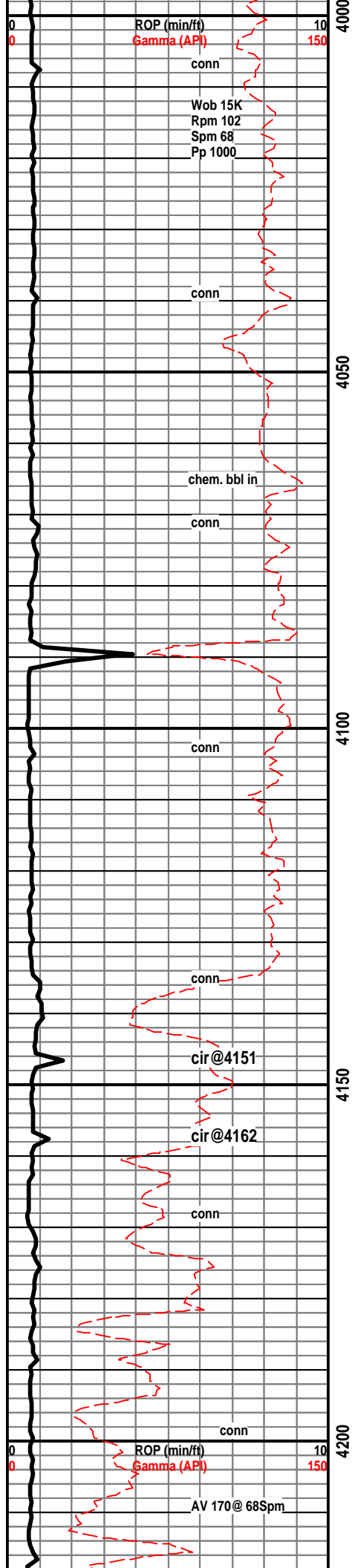
Shale; light gray, gray, soft to firm, some arenaceous to silty, dull earthy texture.

Shale; gray, light gray, earthy, soft to firm as above some silty to arenaceous.

Shale; infsx lght gray to pale gray-green, silty to slight arenaceous look, majority of sample is as above light gray, gray, earthy, soft to firm.

Shale; gray, dark gray, firm to soft, most earthy textrue, occasional





smooth texture, less arenaceous and silty with depth, samples wash heavy gray.

Shale; as above, slight influx, dark gray and black shales.

Shale; light gray to dark gray, rare black, firm to hard, tabular to platy, some silty texture, sample wash heavy gray, rare inclusions of pyrite.

Shale; as above, rare free ufg sandstone stringers, wicons, wlsrtd, tight, no show.

Shale; light gray, some dark gray, firm to soft, occasionally hard, some silty, rare ufg sandstone; with carbonaceous looking inclusion, no show.

Shale; as above, rare free pyrite, rare Wackestone; off white to light cream, micro-oolitic-cave?

Shale; light to dark gray, tabular to platy, some siltstone laminations, rare free off white sand cluster-cave?, no show, no cut on selected samples.

Stalnaker Sandstone; 4134 (-2682)

Sandstone; rare off white, ufg, wicons, vwlsrtd, to fg-wicons to cons wlsrtd, no fluorescence, no cut on selected samples, very poor sandstone representation in the samples, no visible porosity in the dry samples, no visible stain.

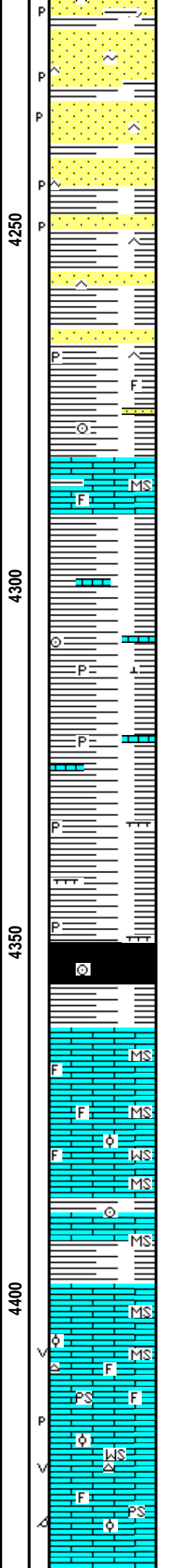
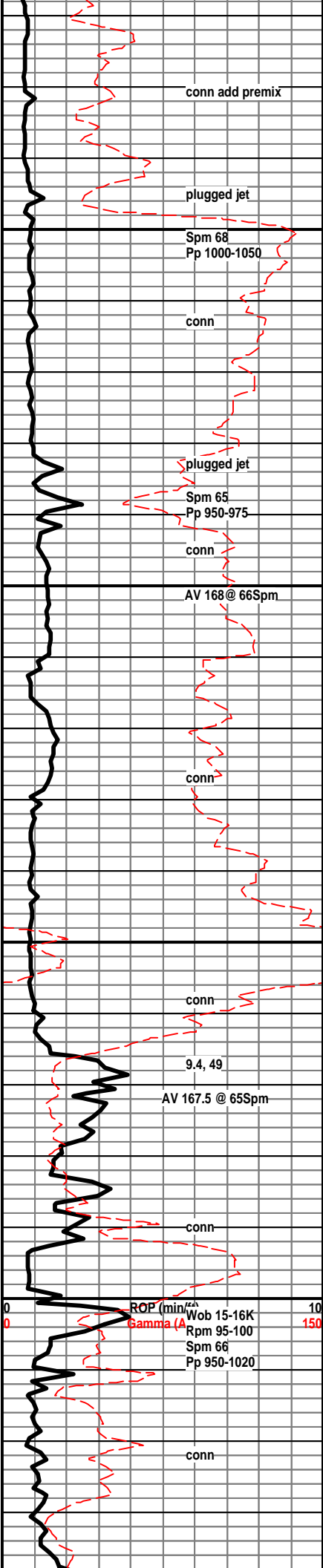
Sandstone; approx 5% of sample, fg to ufg, light gray to off white, cons, to plycons, subrnd, wlsrtd, some dark inclusions, no visible show, no cut on selected samples, no porosity visible in dry, less sand % with circulated time.

Sandstone; increase to approx. 40% of sample, light gray to off white, ufg to vfg, most wicons, vrywlsrtd, subrnd, no visible porosity in the wet or dry sample, black inclusions and laminations, no show, some micaceous.

Sandstone; as above.

Sandstone; off white to light gray, ufg to vfg, looks tight in wet sample, no show, black inclusions and some black laminations, rare glauconite in the matrix, non-calcareous cement, rare barren porosity in the dry sample, Shale; rare black and brown shales, most are gray and silty-cave?





Sandstone; as above, slight increase in dark gray, gray, black and brown shale here.

Sandstone; as above, no real change here, rare to scattered barren pinpoint porosity, as above, no show, no cut on selected samples.

Shale; slight increase in gray to dark gray, rare brown, firm to soft, some silty, Sandstone; as above, look tight in wet, rare glauconite, black spotty inclusions, some black laminations, no show.

Shale; increase in gray, dark gray, some brown, rare crinoid stem and fossil fragments.

Mudstone; chalky, hard, cream to brown, to occasionally crystalline-silky luster, dense, rare fossil fragments.

Shale; dark gray to gray, some black to brown, rare Mudstone; with trace glauconite, rare fossil fragmants.

Shale; dark gray as above, rare crinoid stem and free pyrite, Mudstone; trace brown-chalky to rare silky-crystalline, dense.

Shale; as above, rare brown Mudstone some with fossil fragments.

Shale; dark gray, to brown, earthy to smooth texture, tabular to plat some blocky, some marlstone, rare free pyrite in the sample

Shale; influx black, blocky, carbonaceous, trace gas bubbles, free and when broken.

Kansas City 4364 (-2912)

Mudstone; trace light gray to dark brown, chalky, hard to firm, rare light tan-silky crystalline, dense.

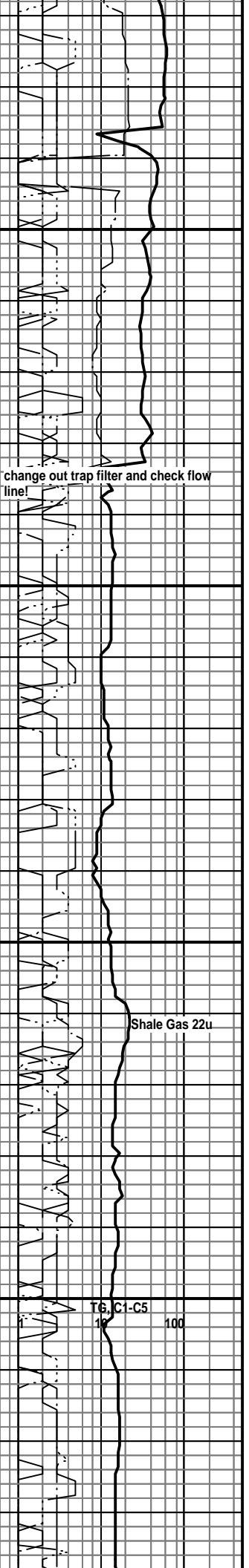
Mudstone; increase in off white, soft-chalky, rare fossileferous Wackestone: micro-oolitic to fossil fragment, no show.

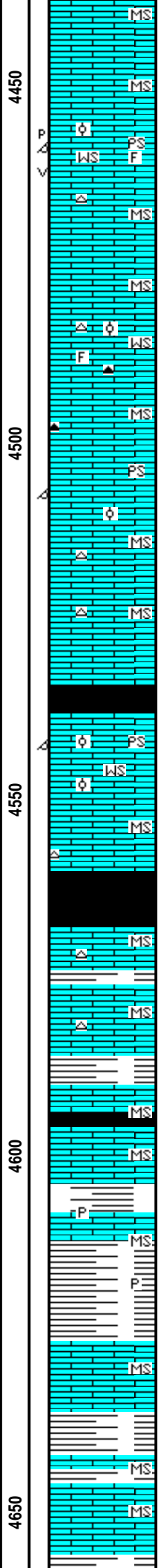
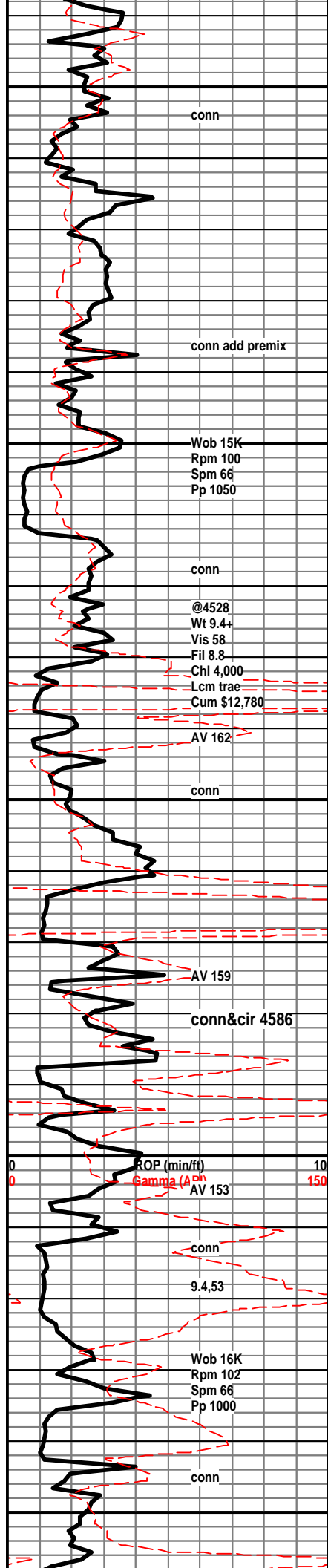
Shale; dark gray to dark brown, earthy texture.

Shale; dark gray to black, some platy-brown with smooth textrue.

Wackestone; off white to cream, occasionally light gray, chalky matrix, micro-oolitic to micro-fossil fragments, no show, dull gold mineral fluorescence, rare barren porosity,

Packstone; to Wackestone; most off white, chalky, rare silky-crystalline, micro-oolitic to small oolites, micro-fossiferous, visible barren porosity, dull mineral fluorescence-no cut on selected samples, trce white free oolitic chert.





Mudstone; gray to light gray, hard, most chalky, some silky-crystalline, no show.

Mudstone; cream to tan, dense.

Packstone to Wackestone; white to tan, most chalky matrix, micro-oolitic, rare tan oomoldic, mineral fluorescnece only, no show.

Mudstone; cream to tan, chalky to crystalline, dense, rare blue-gray free chert, no show.

Mudstone; cream to brown, most chalky, occasionally crystalline-silky texture, dense, no show.

Wackestone; off white, most chalky, soft to brittle, micro-oolitic, rare free dark brown and off white fresh chert, no show, dull mineral fluorescence only.

Mudstone; cream to tan occasionally light gray, dense, most chalky texture, free dark gray chert.

Packstone; tan to cream, crystalline matrix, oomoldic, mineral fluorescnece only, no cut on selected samples.

Mudstone; off white, cream, chalky, free light gray fresh chert.

Shale; black, soft, some hard-carbonaceous, gassy.

Swope 4542 (-3090)

Packstone; cream, to tan, oomoldic to micro-oolitic, mineral fluorescence, no cut.

Mudstone; off white, tan chlkly to crystalline, soft to brittle, free gray chert, some fossiliferous.

Shale; large influx, black, carbonaceous, soft to hard and gassy.

Hertha 4569 (-3117)

Mudstone; cream to off white, chalky, rare sample w/dead tary spott stain, residual ring cut, no live oil, no visible gas bubbles.

Mudstone; off white to tan, chalky to trace crystalline, rare off white, fossiliferous to oolitic free chert.

Shale; gray dark gray to black.

Shale; black gassy.

Mudstone; off white, cream, tan, most chalky.

Shale; most as above, however influx pale green, some with pyrite inclusions.

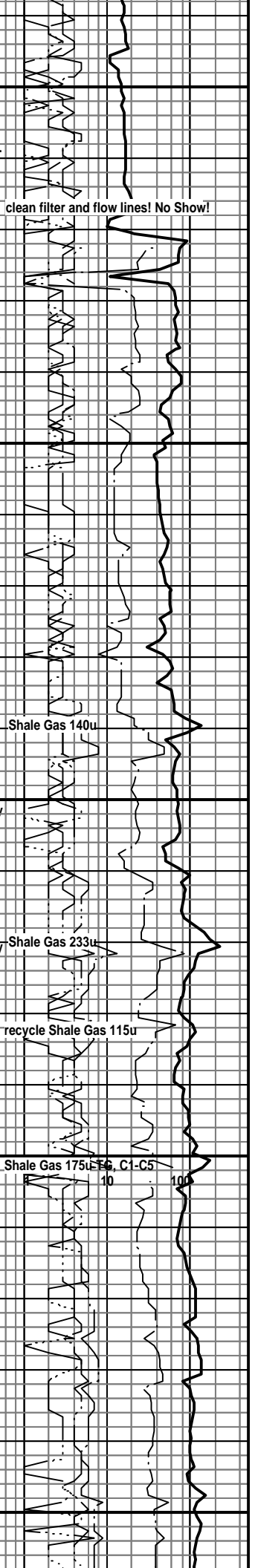
Shale; most black to dark gray, influx, pale green, brick red, brown.

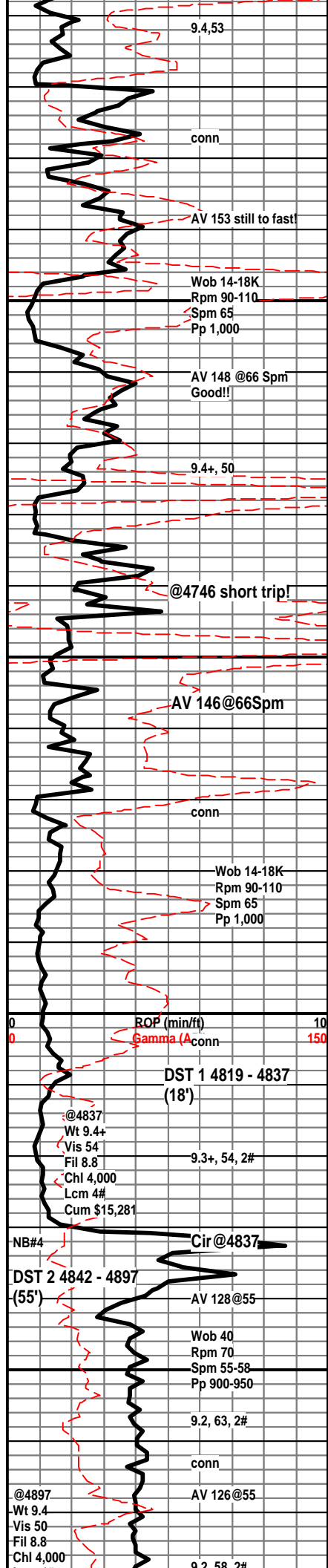
Mudstone; small influx tan to brown, crystalline to chalky, dense.

Shale; influx, pale green earthy to waxy.

Mudstone; tan, to brown to light gray, silky-crystalline to dull and chalky, dense.

Shale; pale green some mottled brown, earthy to waxy luster.



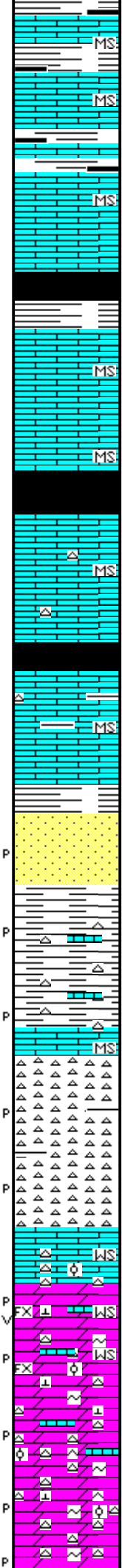


4700

4750

4800

4850



Mudstone; as above.

Shale; no real change here, very colored and black carb. shale.

Mudstone; cream to off white, firm to brittle, most with chalky matrix, dense.

Shale; very colored to black carbonaceous, rare gassy when broken-cave?

Mudstone; increase in off white to cream, occasionally tan, most chalky as above, dense.

Shale; black, carbonaceous, some hard gassy w/broken.

Shale; gray to pale green.

Pawnee 4704 (-3252)

Mudstone; off white, cream most chalky, trace tan to light brown silky-crystalline, dense, dull mineral fluorescence no cut on selected samples.

Shale; black carbonaceous, soft, hard-some gassy when broken.

Mudstone; cream to tan, chalky, dense, worthless sample due to 40 stand wiper trip.

Mudstone; cream, brown, to light gray, most chalky, rare gray free chert.

CKE Shale 4751 (-3299)

Shale; black carbonaceous, rare gas bubbles.

Mudstone; cream to tan, some brown, chalky, dense, increase in very colored shales-cave?

Shale; gray, dark gray, to black.

CKE Sand 4771 (-3319)

Sandstone; brown-even stain, ufg, cons, por cons, wlsrtd, rnd, faint to fair odor, bleeding rainbow, light brown oil droplets when broken.

Shale; gray, dark gray to pale green, traces free fresh and weathered chert, spotty dark stain on weathered and pinpoint porosity surfaces, most chert is fresh, most show on pale green hard to friable chert, some with a waxy argillaceous look, some hard, faint odor, poor fluorescence, instant cut.

Mississippi Chert 4806 (-3354)

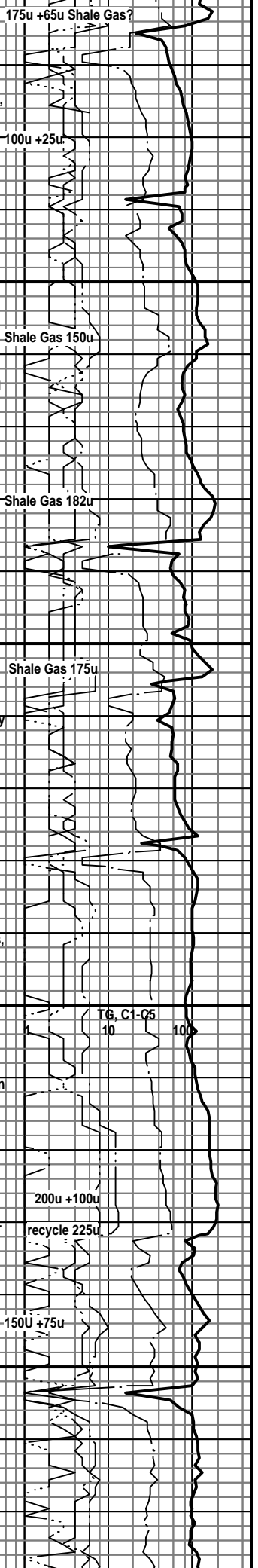
Chert; % inc. white to opaque, fresh to spotty brown stain, pale green hard to friable, some with argillaceous look, spotty dark oil droplets in when broken, dull fluorescence, instant cut, fair odor, poor samp quality much shale.

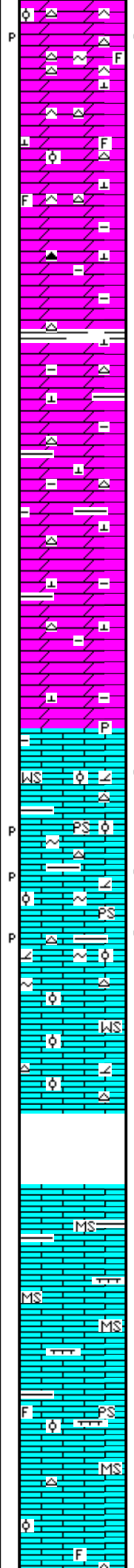
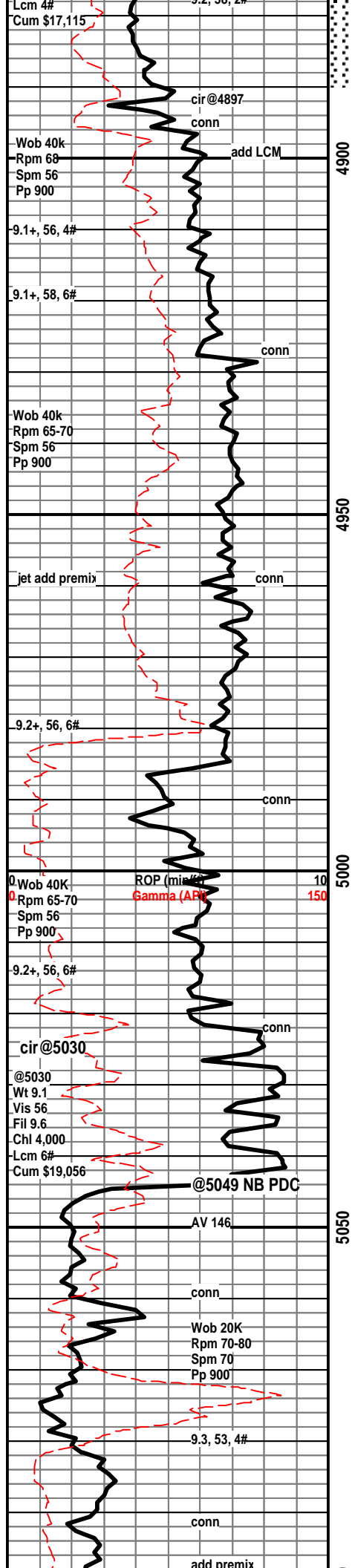
Chert; % inc. white, opaque to pale green, increase in show here, spotty to rare even dark stain on weathered surface and pinpoint porosity, visible bleeding gas, and oil droplets in pore space, poor fluorescence, instant cut, fair odor, poor sample quality much shale.

Wackstone; approx 15% of sample, off white, micro-oolitic to sucrosic look, dolomitic to limy, to siliceous, cherty, brittle, chalky looking dry, some even brown stain and spotty stain, visible porosi some samples are barren, milky cut on dull gold fluorescnece, faint odor, trace oil droplets when broken, rare free oil in tray, chert show aa-cave?, majority of sample is shale and chert, some chert-dolomitic, most look to tight to produce.

Wackstone; as above, some siliceous; influx, light gray-green dolomitic chert, trace with spotty brown stain-milky cut, looks tight, faint sample odor, faint odor, less show with depth, also show as above.

Dolomite and dolomitic chert, off white-gray, hard to brittle, rare galuconite, very fine sucrosic texture, some siliceous, some cherty dolomitic, micro-oolitic look as above, spotty stian, milky cut, large loss of show here, very faint odor, some bleeding oil on pinpoint





porosity.

Dolomite; some siliceous, very fine sucrosic to gritty texture, as above some fossil fragments and some spicular look, hard, very weak odor-much less show here, chert as above, fresh and dolomite chert.

Dolomite; brittle less siliceous to limy, some highly siliceous, free white fresh chert, some with spotty brown stain on edge, micro-oolitic look and micro-fossiliferous look, rare visible spicular look, much less stain with depth, no sample odor, over all look as above, no real change except lack of new show.

Most as above; trace gray, very hard, gritty texture limy dolomite, argillaceous residue, dense, rare dark gray free chert, change in lithology here? or just a stringer?

Shale; gray to dark gray, waxy texture, soft, cave?

Dolomite; gray to dark gray, gritty texture, very hard, to hard, some siliceous, some with argillaceous residue, dense, reaction to acid only when crushed, some slightly limy, free off white to some blue mottled free chert, still some off white with spotty brown oil stain-ol show from above. Shale; cary dark gray, most non-calcareous-cave

Dolomite; gray, occasionally light gray, hard to very hard, more of a limy reaction when crushed in the acid, gritty texture, some argillaceous residue when acidized, platy to tabular, some blocky, dense, less free chert with depth, still traces of old show from above still gray to dark gray and traces of black shales in the sample-cave?

As above no real change here, a bit more limy with depth, rare pyrite inclusion in one sample, looks like we have lots the free chert here.

Rare; Packstone-Wackstone; cream to off white, firm to soft, micro-oolitic to oolitic, rare spotty brown stain-milky cut, no odor, no free oil, some with chert inclusions with oil stain.

5% Packstone to Mudstone; cream to off white, chalky to crystalline matrix, rare show as above, most show between matrix and chert, rare pp por., no sample odor.

10% Packstone to Mudstone; cream to off white, as above, rare sample with brown oil droplets when broken, milky cut, no sample odor. Majority of sample is Dolomite and limy Dolomite as above. 20min sample; 30% Packstone/Wackstone; aa, rare show from above-no odor.

40% Wackstone to Packstone; cream to off white, brittle to very soft-chalky, micro-oolitic to oolitic, rare show from above, trace white chert, free and in matrix, rare free calcite

Did not circulate samples, prior to tripping for new bit!

Sample worthless, large shale cuttings!

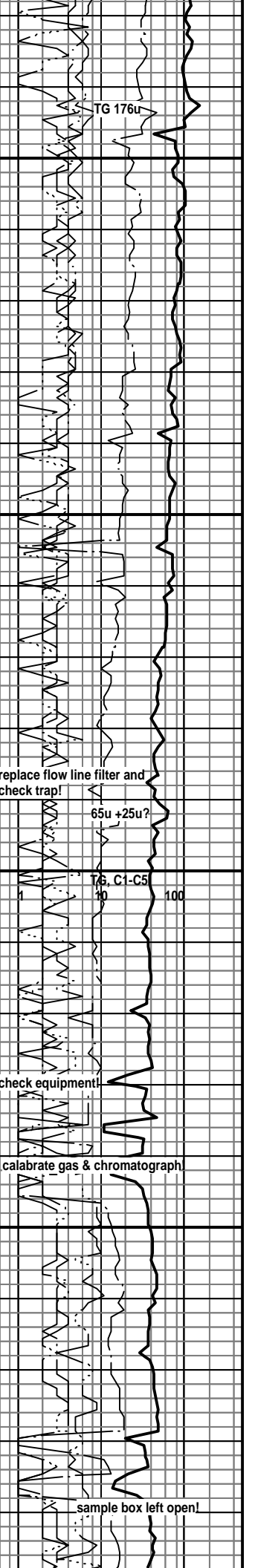
5% Mudstone; cream, off white, chalky, most soft, shale as above, sample quality worthless.

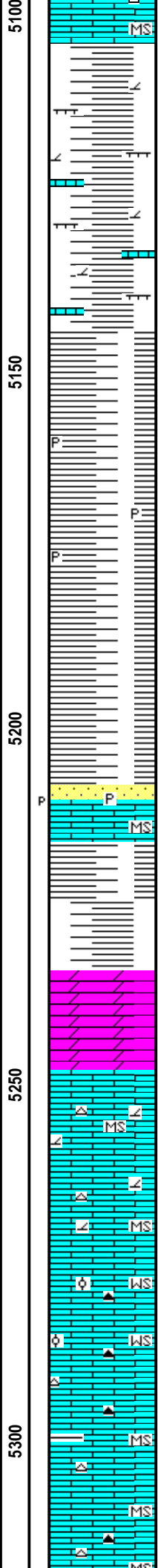
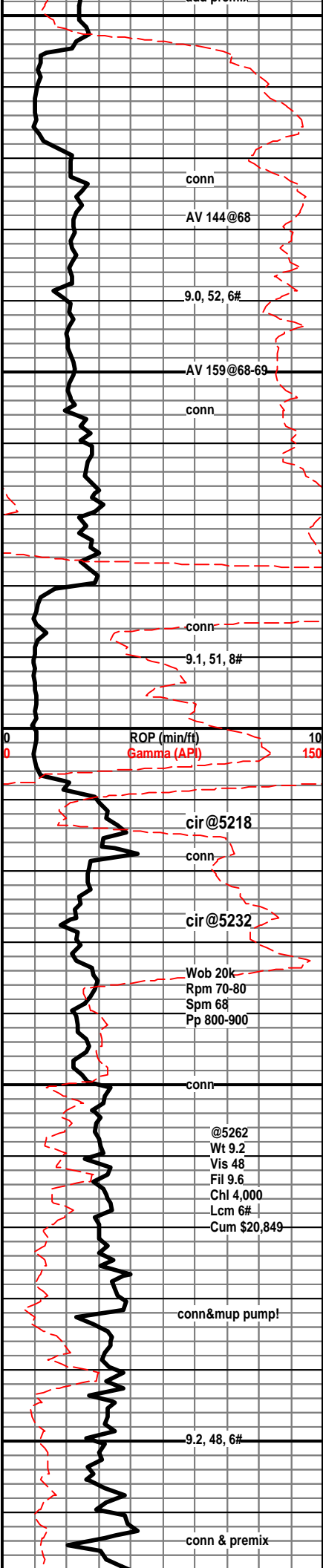
Trace Mudstone; gray, cream to rare brown, chalky-soft, Shale; increase in gray-green-waxy, and marly, sample still worthless.

10% Mudstone; brown, to cream, chalky, firm to soft, sample majority is shale and marl, quality as above.

Packstone; cream to off white, soft, chalky, micro-oolitic to micro-fossiliferous, influx pale green marl, no show.

Mudstone; off white to light gray, chalky, firm to soft, rare chert inclusions, no show, Wackstone and Packstone are 50% of sample here, quality improving with depth.





Kinderhook 5104 (-3652)

Shale; slight increase in % here, gray, dark gray, black, pale green-wxy, some marly to dolomitic, loss of limestone % here, overall sample quality still poor, less than quality sample representation!

Shale; aa above. 30% Mudstone; cream to off white, occasionally light brown, chalky, no visible show.

Shales; and stringers of limestone as above.

Shale; increase in light gray, soft to firm, earthy texture, decrease in limestone, less calcareous and dolomitic shales here.

Shale; as above, platy to tabular, some with black carbonaceous laminations, rare free pyrite.

Woodford Shale 5178 (-3726)

Shale; influx, black mottled dark gray when broken, the soft has no visible gas, however the hard tabular to blocky has gas bubbles.

Shale; increase in black-mottled dark brown and dark brown, gritty texture, rare spotty bright yellow fluorescence-slow milky cut-visible gas bubbles, no odor, no visible sandstone here.

5218: 4 circulated samples; 13 clusters of sandstone found, opaque fg, wlsrtd, porcons, subrnd, rare spotty black structural shale, only clusters with a slow milky cut, only 2 of the 4 have dull yellow fluorescence, no odor, rare spotty stain, no visible oil, rare visible porosity, most are barren.

5234: 15 clusters of sandstone as above, rare spotty looking stain-but no cut, only 5 samples with fluorescence, rare pyrite cement, 60min; 1 cluster with pyrite cement and dark spotty stain, dull fluorescence instant milky cut, no odor, no visible live oil or oil droplets..

Shale; influx, gray-green, waxy.

Viola 5234 (-3782)

Dolomite; limy; light gray, soft to firm, chalky to gritty texture.

Mudstone; light gray to cream and light tan, gritty to chalky-smooth, some dolomitic, no show, samples are still 60% shale as above, indicating poor sample quality.

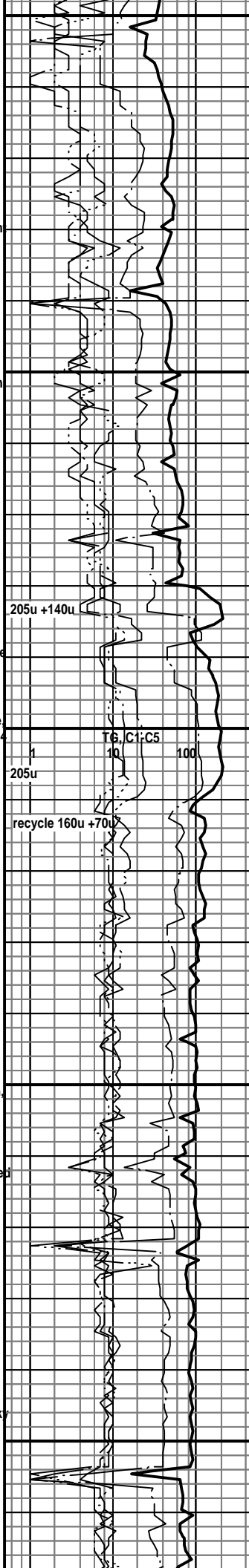
As above; still much shale in samples, dolomitic limestone, scattered free chert some pale blue, most off white, sample quality still poor.

Wackestone; cream to off white, most chalky, occasionally silky-crystalline look, micro-oolitic, oolites in a tight looking matrix, one sample with bright yellow fluorescence-fluor. cut, no cut on other selected samples, are free gray chert, 40%-50% limestone here.

Mudstone; increase in cream to light gray, soft to brittle, most chalky matrix, rare dark gray shale laminations.

Mudstone; cream to light gray as above, some micro-oolitic Wackestone, rare bright fluorescence-no cut, cream to gray chert, some matrix attached.

As above; trace brown, silky crystalline dense Mudstone.



Wob 20k
Rpm 75
Spm 64-68
Pp 1000

conn

cir@5360

9.2, 54, 6#

cir@5376

conn

ROP (min/ft)
Gamma (API)

conn

Wob 20k
Rpm 72
Spm 66
Pp 1050

conn&add premix

Wob 18-20k
Rpm 75-80
Spm 60-65
Pp 1050

conn

9.3, 65, 6#

conn

cir@5525

@5560
Wt 9.3
Vis 58
Fil 8
Chl 4,000
Lcm 8#
Cum \$24,012

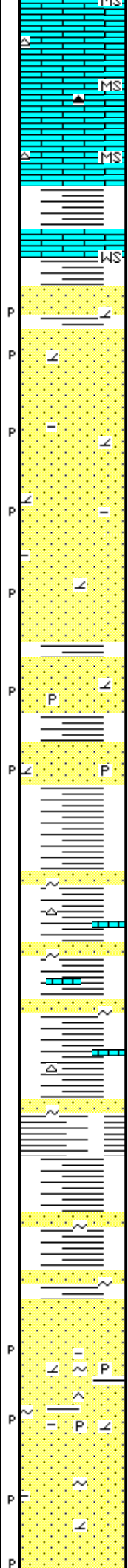
conn

5350

5400

5450

5500



Mudstone; cream to light gray, most chalky, trace brown-silky crystalline, light and dark gray chert, rare white-with old show, some chert fossiliferous.

Mudstone; most as above, influx buff to light brown, chlky to gritty fery fine crystalline look, no show.

Simpson Shale 5344 (-3892)

Shale; small influx sea green waxy, firm.

Wackestone; micro-oolitic, bright fluor., instant cut.

Simpson Sandstone; 5364 (-3912)

Sandstone; off white some mottled light gray, vfg to fg, wlcons to vwlcns, sub rnd, wlsrtd, dolomite cement, trace structural shale, no cut on seledted samples, looks tight in the wet, scattered pinpoint porosity on the vfg, no odor.

Sandstone; off white, opaque to light gray, trace with dark structural shale, trace with green clay, rare pyrite cement, fg to vfg, vwlcns to prlycons, wlstrd, subrnd, slight dolomitic to silica cement, some dark gray spotty stain, no cut, no odor, no show, dray sample with tight clusters and clusters with barren pinpoint porosity.

Sandstone; smaller grained with depth, vwlcns, wlstrd, subrounded to rounded, dolomitic cement, no show in the wet or dry sample, slight increase in pyrite cement and rare free pyrite in the sample.

Shale; gray, pale green, less sea green with depth, some scattered black, most firm.

Shale; very colored, most smooth, hard, sea green, to pale green, also gray, black, no calcareous, stringers of tan to brown gritty limestone.

Most as above; stringers of Sandstone; off white, to opaque, some with light tan stain-no cut, most wlcons, most vfg, no show.

Shale; slight increase in light gray platy, brittle, smooth texture, non-calcareous, sandstone; vfg, wlcons, more glauconitic here, dolomite cement, very little change from sample to sample, much cave?

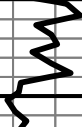
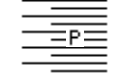


Shale; increase in green and sea green, brittle, most platy, smooth to waxy textrue, Sandstone; ufg, wlcons, increase in glauconitic and green shale laminations here, no show.

Lower Simpson Sand 5520 (-4068)

Sandstone; ufg, wlcons, wlstrd, rnd-subrnd, glauconite and dark structural shale in the matrix, majority of the sand is light gray in color, dolomitic to siliceous cement, trace scattered barren porosity in the dry, rare pyrite cement, rare dull fluorescence-no cut, no odc no visible live show. 80min 5% prlystrd med and fg clusters, off white in color, no show.

Sandstone; light gray, some tan and off white, trace opaque, majori fg, vwlcns to prlycons, wlstrd, subrnd, slightly dolomitic cement to silica cement, structural shale and glauconite in the matrix, occasionally cleam matrix, no show, no odor.



	5550		<p>Shale; increase in green-smooth to waxy texture, some with pyrite inclusions, also some gray and brown shales here.</p>	
<p>RTD 5,560' 2/2/14 E-LOG TD 5,555'</p>			<p>Sandstone; tan, clear, light gray, ufg to rare crsg in some clusters, w/cons, w/strd to prlysrted, rnd to subrnd some clusters 5mm in size. dolomitic to sileaceous cement, no odor, no visible live show.</p>	



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.
 P.O. Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

4-35s.-12w. Barber Co.
School Trust 21-4
 Job Ticket: 51870 **DST#: 1**
 Test Start: 2014.01.29 @ 09:27:16

GENERAL INFORMATION:

Formation: **Miss. Chert.**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 12:22:16
 Time Test Ended: 17:18:01
 Interval: **4819.00 ft (KB) To 4837.00 ft (KB) (TVD)**
 Total Depth: 4837.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1452.00 ft (KB)
 1443.00 ft (CF)
 KB to GR/CF: 9.00 ft

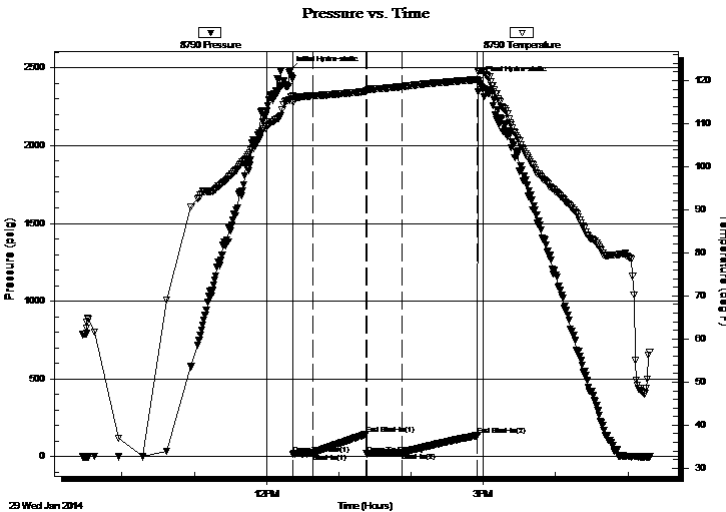
Serial #: 8790

Inside

Press@RunDepth: 24.01 psig @ 4820.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.29 End Date: 2014.01.29 Last Calib.: 2014.01.29
 Start Time: 09:27:21 End Time: 17:18:00 Time On Btm: 2014.01.29 @ 12:19:16
 Time Off Btm: 2014.01.29 @ 14:56:16

TEST COMMENT: IF: Weak blow . surf. - 1"
 IS: No blow
 FF: Fair blow . 1" - 3 1/2"
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2484.71	115.62	Initial Hydro-static
3	14.84	114.96	Open To Flow (1)
19	19.48	116.44	Shut-In(1)
64	141.85	117.44	End Shut-In(1)
64	16.50	117.59	Open To Flow (2)
94	24.01	118.59	Shut-In(2)
156	134.96	120.24	End Shut-In(2)
157	2417.02	122.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SLI OCM trc%oil, 99%mud	0.05
0.00	170' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC.
P.O. Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

4-35s.-12w. Barber Co.
School Trust 21-4
Job Ticket: 51870 **DST#: 1**
Test Start: 2014.01.29 @ 09:27:16

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	4000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

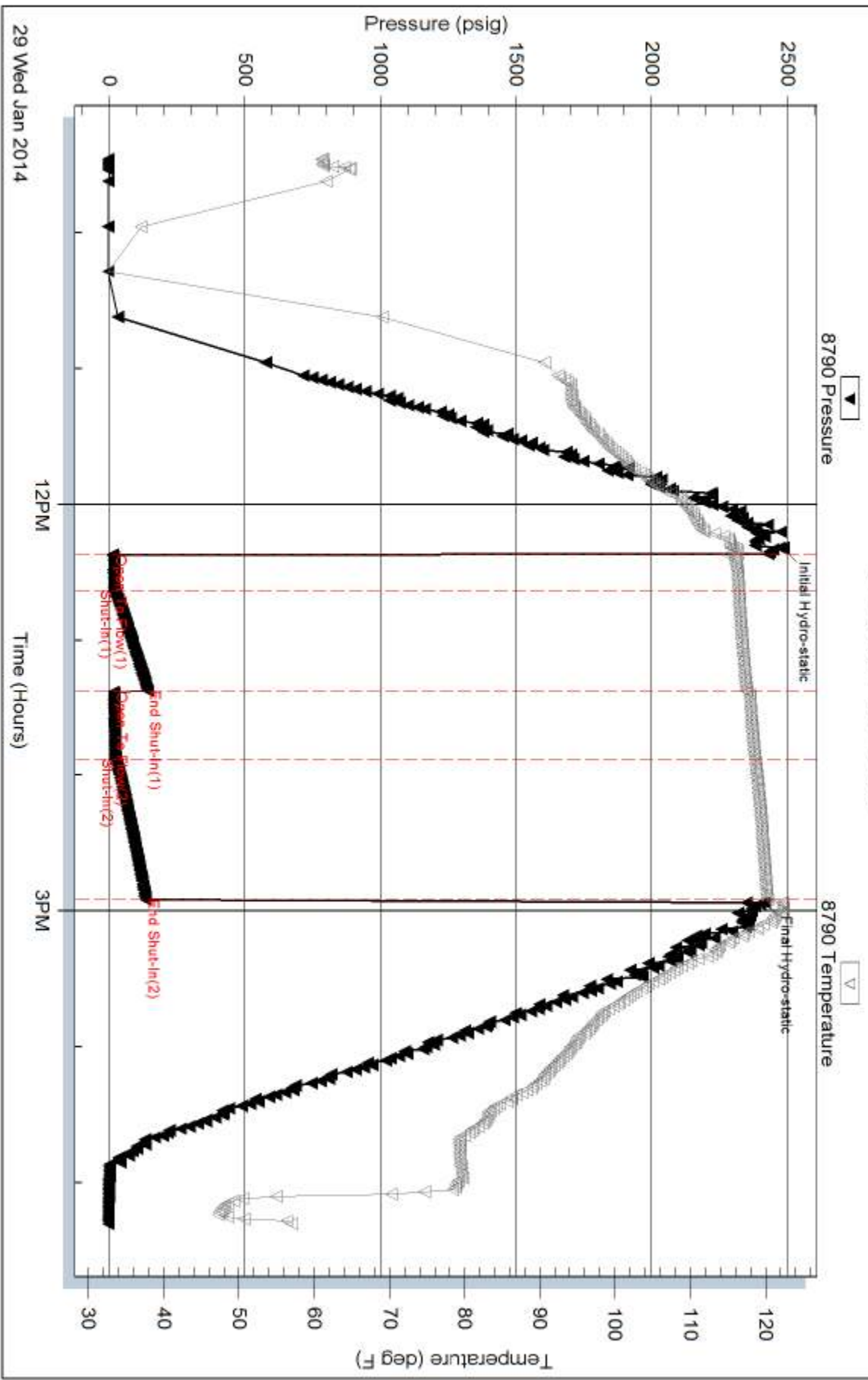
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SLI OCM trc%oil, 99%mud	0.049
0.00	170' GIP	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.
 P.O. Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

4-35s.-12w. Barber, KS
School Trust 21-4
 Job Ticket: 51871 **DST#: 2**
 Test Start: 2014.01.30 @ 07:29:23

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 10:43:38
 Time Test Ended: 15:46:53
 Interval: **4842.00 ft (KB) To 4897.00 ft (KB) (TVD)**
 Total Depth: 4897.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1452.00 ft (KB)
 1443.00 ft (CF)
 KB to GR/CF: 9.00 ft

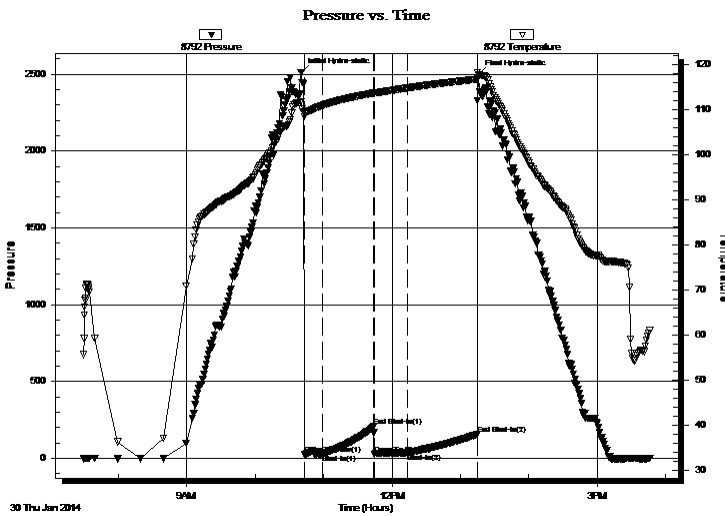
Serial #: 8792

Outside

Press @ RunDepth: 35.57 psig @ 4847.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.30 End Date: 2014.01.30 Last Calib.: 2014.01.30
 Start Time: 07:29:28 End Time: 15:46:52 Time On Btm: 2014.01.30 @ 10:40:08
 Time Off Btm: 2014.01.30 @ 13:16:08

TEST COMMENT: IF: Weak blow . 1/4" - 2"
 IS: No blow
 FF: Weak blow . 1" - 3"
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2512.21	111.66	Initial Hydro-static
4	25.02	109.18	Open To Flow (1)
19	29.18	110.84	Shut-In(1)
64	206.79	113.61	End Shut-In(1)
65	27.31	113.63	Open To Flow (2)
94	35.57	114.74	Shut-In(2)
155	157.75	116.69	End Shut-In(2)
156	2495.60	117.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 3%oil, 97%mud	0.10
0.00	100' GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC.
P.O. Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

4-35s.-12w. Barber, KS
School Trust 21-4
Job Ticket: 51871 **DST#: 2**
Test Start: 2014.01.30 @ 07:29:23

Mud and Cushion Information

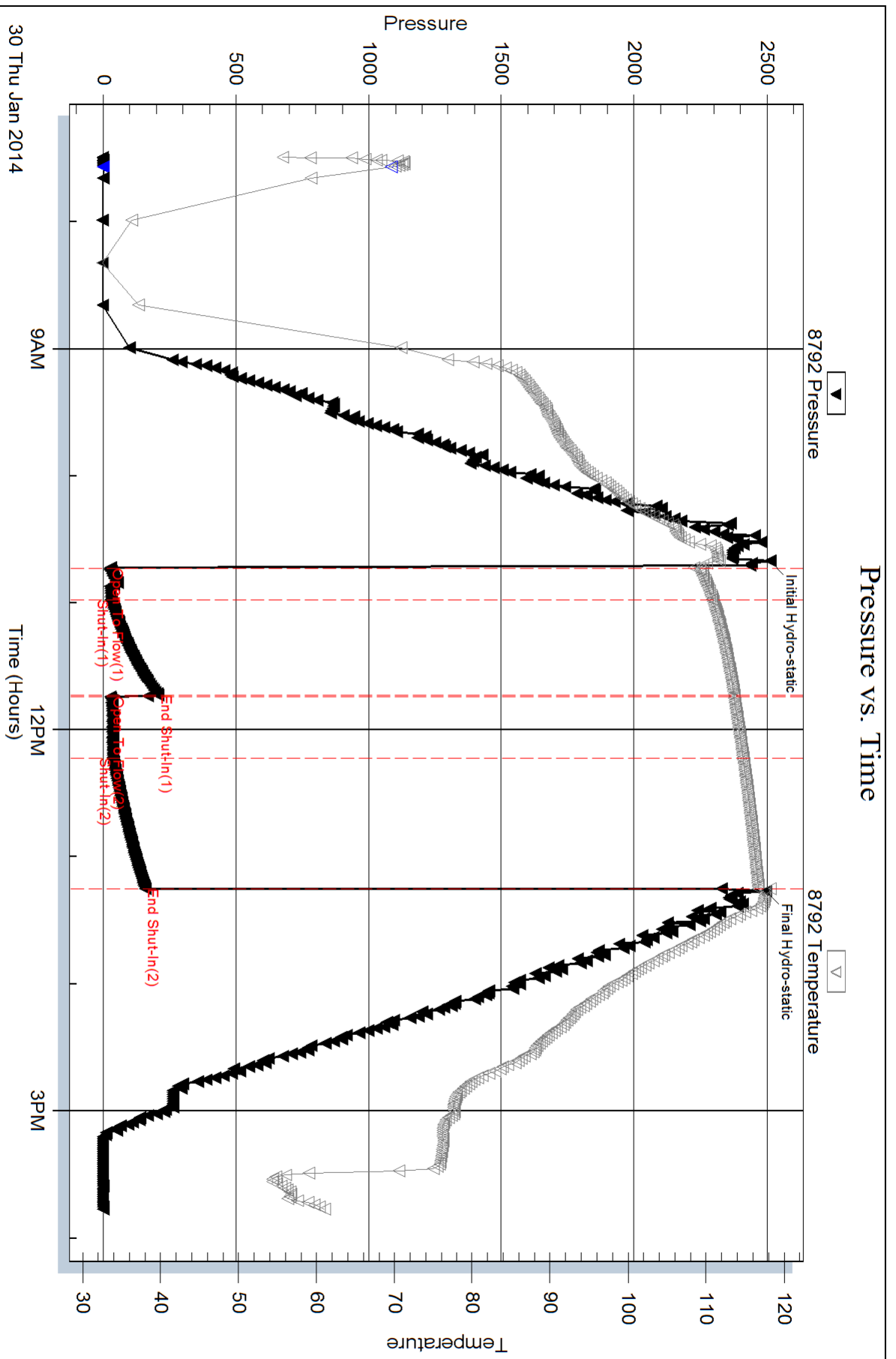
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	4000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 3%oil, 97%mud	0.098
0.00	100' GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:





PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 141051
Invoice Date: Jan 23, 2014
Page: 1

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g

Bill To:
Herman L. Loeb LLC
5518 S Oil Center Road
Great Bend, KS 67530

4122
706 School
60438

Customer ID	Field Ticket #	Payment Terms	
Loeb	62370	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Medicine Lodge	Jan 23, 2014	2/22/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	School #21-4		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
120.00	CEMENT MATERIALS	Pozmix	9.35	1,122.00
5.00	CEMENT MATERIALS	Gel	23.40	117.00
10.00	CEMENT MATERIALS	Chloride	64.00	640.00
322.42	CEMENT SERVICE	Cubic Feet Charge	2.48	799.60
338.62	CEMENT SERVICE	Ton Mileage Charge	2.60	880.41
1.00	CEMENT SERVICE	Surface	1,512.75	1,512.75
25.00	CEMENT SERVICE	Pump Truck Mileage	7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
1.00	CEMENT SUPERVISOR	Jason Thimesch		
1.00	CEMENT SUPERVISOR	Jake Heard		
1.00	OPERATOR ASSISTANT	John Rogers		

PAID
7-23-14
FEB 13 2014
SCANIT

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1,719.26

ONLY IF PAID ON OR BEFORE
Feb 17, 2014

Subtotal	8,596.26
Sales Tax	364.72
Total Invoice Amount	8,960.98
Payment/Credit Applied	
TOTAL	8,960.98

7241.72

ALLIED OIL & GAS SERVICES, LLC 062370

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge KS

DATE <u>01/23/14</u>	SEC. <u>4</u>	TWP. <u>35s</u>	RANGE <u>12w</u>	CALLED OUT	ON LOCATION <u>4:30 PM</u>	JOB START <u>6:30 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>School</u>	WELL# <u>21-4</u>	LOCATION <u>Hardtner, KS, 1 North to Drifted,</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1/2 East, South into cross CG, Take Path on right, Follow South + East to Rig</u>					

CONTRACTOR Sterling #4 OWNER Herman Loeb

TYPE OF JOB Surface

HOLE SIZE 17 1/2 T.D. 270

CASING SIZE 13 3/8 DEPTH 252

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20'

PERFS.

DISPLACEMENT 37 Bbls Fresh H₂O

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thinesch

548/545 HELPER Jake Heard

BULK TRUCK

819/823 DRIVER John Rogers

BULK TRUCK

DRIVER

REMARKS:

Did Circ cement

CEMENT

AMOUNT ORDERED 300sx 60:40:3%set 2%

Gel

COMMON 180 SX @ 17.90 3222.00

POZMIX 120 SX @ 9.35 1122.00

GEL 5 SX @ 23.40 117.00

CHLORIDE 10 SX @ 64.00 640.00

ASC @

@

@

@

@

@

@

@

@

HANDLING 322.42 cft @ 2.48 799.60

MILEAGE 1357 km x 25 mi x 2.60 880.42

TOTAL 6781.02

SERVICE

DEPTH OF JOB 252

PUMP TRUCK CHARGE 1512 25

EXTRA FOOTAGE @

MILEAGE 25 mi @ 7.70 192.50

MANIFOLD @

LV 25 mi @ 4.40 110.00

@

TOTAL 1815.25

CHARGE TO: Herman Loeb

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES 8596.27

DISCOUNT IF PAID IN 30 DAYS

Net 6877.01

PRINTED NAME LANNY S. SALOBA

SIGNATURE Lanny Saloba

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.



60716
TOL School
60438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 02/05/2014
INVOICE NUMBER 1718 - 91404789		

Pratt (620) 672-1201
 B HERMAN L LOEB LLC
 I PO Box: 838
 L LAWRENCEVILLE
 T IL US 62439
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME School Trust 21-4
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40688928	19843		Net - 30 days	03/07/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 02/03/2014 to 02/03/2014				
0040688928				
171809856A Cement-New Well Casing/Pi 02/03/2014				
Cement 5 1/2" Longstring				
50/50 POZ	300.00	EA	8.25	2,475.00 T
Celloflake	75.00	EA	2.78	208.13 T
Gypsum	1,260.00	EA	0.56	708.75 T
FLA-322	126.00	EA	5.63	708.75 T
Gilsonite	1,800.00	EA	0.50	904.50 T
Mud Flush	1,000.00	EA	0.65	645.00 T
KCL Potassium Chloride	680.00	EA	1.13	765.00 T
Claymax KCL Substitute	6.00	EA	26.25	157.50 T
"Latch Down Plug & Baffle, 5 1/2" (Blue)"	1.00	EA	300.00	300.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	270.00	270.00
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	82.50	990.00
"5 1/2" Basket (Blue)"	2.00	EA	217.50	435.00
"Cement Scratchers Cable Type, 5 1/2" "	8.00	EA	56.25	450.00
"Unit Mileage Chg (PU, cars one way)"	55.00	MI	3.19	175.31
Heavy Equipment Mileage	110.00	MI	5.25	577.50
"Proppant & Bulk Del. Chgs., per ton mil	693.00	EA	1.20	831.60
Depth Charge; 5001-6000'	1.00	EA	2,160.00	2,160.00
Blending & Mixing Service Charge	300.00	BAG	1.05	315.00
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

PAID
77350
FEB 13 2014
SCANNED

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	13,395.79 469.94 13,865.73
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 09856 A

4-355-12W

DATE _____ TICKET NO. _____

DATE OF JOB: 2-3-14		DISTRICT: Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Herman L. Loeb, LLC				LEASE: School Trust				WELL NO: 21-4	
ADDRESS:				COUNTY: Barber		STATE: Kansas			
CITY:		STATE:		SERVICE CREW: C. Messicht; E. Masquez; P. Eggers					
AUTHORIZED BY:				JOB TYPE: C.N.W. - Longstring M. McCann					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
28,443	1.9	27463	1.5				2-2-14	PM	10:00
						ARRIVED AT JOB	2-3-14	PM	7:30
19,889-19,843	1.5					START OPERATION		PM	3:15
						FINISH OPERATION		PM	4:45
19,959-19,860	1.0					RELEASED	2-3-14	PM	5:00
						MILES FROM STATION TO WELL			55

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *M. McCann*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P CP104	50/50 Poz Blend Cement	sh	250	\$	2,750 00
P CP104	50/50 Poz Blend Cement	sh	50	\$	550 00
P CC102	Cellflite	Lb	75	\$	277 50
P CC113	Gypsum	Lb	1260	\$	945 00
P CC129	Fluid Loss	Lb	126	\$	945 00
P CC201	Gilsonite	Lb	1800	\$	1,206 00
P C700	Potassium Chloride	Lb	680	\$	1,020 00
P CF607	Latch Down Plug and Baffle, 5 1/2"	ea	1	\$	400 00
P CF1251	Auto Fill Float Shoe, 5 1/2"	ea	1	\$	360 00
P CF1651	Turbolizer, 5 1/2"	ea	12	\$	1,320 00
P CF1901	Basket, 5 1/2"	ea	2	\$	580 00
P CF2001	Recipricating Scratchers	ea	8	\$	600 00
P CT04	Claymax	Gal	6	\$	210 00
P CC151	Mud Flush	Gal	1,000	\$	860 00

SUB TOTAL

LC

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: *Lawrence R. M. ...* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *M. McCann*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~09857~~ A
Continuation

4-355-12W

DATE _____ TICKET NO. 9856

DATE OF JOB: 2-3-14	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: Herman L. Loeb, LLC	LEASE: School Trust	WELL NO. 214								
ADDRESS	COUNTY: Barber	STATE: Kansas								
CITY	STATE	SERVICE CREW: C. Messich; E. Masquez; P. Eggers								
AUTHORIZED BY	JOB TYPE: C.N.W. - Longstring									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				AM
						START OPERATION				AM
						FINISH OPERATION				AM
						RELEASED				AM
						MILES FROM STATION TO WELL				PM

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Michael Polley*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P E100	Pickup Mileage	mi	55	\$	233 75
P E101	Heavy Equipment Mileage	mi	110	\$	770 00
P E113	Bulk Delivery	tm	693	\$	1,108 80
P CE 206	Cement Pump: 5,001 Feet To 6,000 Feet	hrs	4	\$	2,880 00
P CE 240	Blending and Mixing Service	sh	300	\$	420 00
P CE 504	Plug Container	Job	1	\$	250 00
P 5003	Service Supervisor	hrs	8	\$	175 00

CHEMICAL / ACID DATA:			

SUB TOTAL	kg	\$13,395 79
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *James R. [Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Michael Polley*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer Herman L. Loeb, LLC	Lease No.	Date 2-3-14	
Lease School Trust	Well # 21-4		
Field Order # 9856	Station Pratt, Kansas	Casing 5 1/2	Depth 5560 Feet
Type Job C.N.W. - Longstring	Formation	County Barber	State Kansas
		Legal Description 4-355-12W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME			
Casing Size 5 1/2	Tubing Size 5 1/2	Shots/Ft 250	Acid 50/50 Poz with 28 Gel.	Pre Pad 25 lb/st. cell plate	Max 6 lb/st. Gilsonite	RATE 1.35 cu. FT./s	PRESS 1500 P.S.I.	ISIP 58 Gypsum	
Depth 5599 Feet	Depth 58 ft	From 58 ft	To 25 lb/st. cell plate	Min 1.35 cu. FT./s	Avg	10 Min.	15 Min.	Annulus Pressure Total Load	
Volume 131.8 Bbl.	Volume 14 lb	From	To	HHP Used 131.3 Bbl. 28 HCL	Gas Volume				
Max Press 1500 P.S.I.	Max Press	From	To						
Well Connection Plug container	Annulus Vol. 50 Additional sacts to Plug Rat (30 sacts) and Mouse (20 sacts) holes	From	To						
Plug Depth 5518 Feet	Packer Depth	From	To						

Customer Representative Michael Polley	Station Manager Kevin Gordley	Treater Clarence R. Messich			
Service Units 28,443	19,889	19,843	19,999	19,860	27463
Driver Names Messich	Masquez	Eggers	M. W. C. W.		

Time (A.M.)	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30					Trucks on location and hold safety meeting.
10:30					Sterling Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down Baffle screwed into collar and a total of 131 Joints new 15.5 lb/ft 5 1/2" casing. A Basket was installed above collars # 25 and # 31. A Turbolizer was installed on collars # 1, 4, 6, 11, 14, 16, 17, 18, 19, 25, 31 and # 32. 8 Reciprocating scratchers were installed on joint # 18.
2:00					Casing in well. Circulate and Reciprocate for 1 Hour
3:12		2000			Shut in well. Pressure Test. Open well.
3:14	300			6	start Fresh water Pre-Flush.
)		20	6	start Mud Flush.
			44	6	start Fresh water spacer.
3:28	300		64	5	Start mixing 250 sacts 50/50 Poz cement.
	0		124		Start to lift cement Stop pumping. Shut in Well. Wash pump and lines. Release Latch Down
3:44	150			6.5	Plug Open Well. Start 28 HCL Displacement.
			92	4	start to lift cement
4:10	900		131.3		Plug down.
	1500				Pressure up.
					Release pressure. Float Shoe held.
			7-5	3	Plug Rat and Mouse holes
					Wash up pump truck.
5:00					Job Complete.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

June 12, 2014

Jesse Middagh
HERMAN L. LOEB, LLC
PO BOX 838
LAWRENCEVILLE, IL 62439

Re: ACO-1
API 15-007-24125-00-00
SCHOOL TRUST 21-4
SW/4 Sec.04-35S-12W
Barber County, Kansas

Dear Jesse Middagh:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 01/23/2014 and the ACO-1 was received on June 04, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department