



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1157042  
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: \_\_\_\_\_



1157042

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](mailto: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:  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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	HENRY TAYLOR 3-28
Doc ID	1157042

Tops

Name	Top	Datum
Heebner Shale	4610	-2241
Lansing	4782	-2413
Hertha	5396	-3027
Base Kansas City	5461	-3092
Marmaton	5468	-3099
Novinger	5518	-3149
Atoka	5835	-3466
Morrow Shale	5968	-3599
Morrow Sand	6010	-3641
Miss. Chester	6033	-3664
Miss. Chester 'C'	6070	-3701
Basal Chester Sand	6422	-4053
St. Genevieve	6439	-4070
St. Louis	6504	-4135

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Henry Taylor #3-28  
Location: 1453' FNL & 1401' FWL, Sec. 28-T34S-R26W, Meade Co., KS.  
Licence Number: 15-119-21342-0000 Region: McKinney Field  
Spud Date: 6/20/2013 Drilling Completed: 7/10/2013  
Surface Coordinates: 1453' FNL & 1401' FWL, Sec. 28-T34S-R26W

Bottom Hole Same as above  
Coordinates:  
Ground Elevation (ft): 2358' K.B. Elevation (ft): 2369'  
Logged Interval (ft): 4550' To: 6600' Total Depth (ft): 6600'  
Formation: St. Louis at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 2984'; Chemical Gel 2984' to 6600'

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

### GEOLOGIST

Name: Jon D. Christensen  
Company: Consulting Petroleum Geologist  
Address: 9002 W. Silver Hollow St.  
Wichita, KS. 67205-8856

### Cores

None Taken

### DSTs

DST #1(Upper Marmaton & Novinger zone) 5477' - 5531'(Corrected Depths to LOG) Test Times 15"-45"-30"-60"  
IFP Weak Surface Blow, FFP No Blow, no Blowback on SI's; REC: 5' Drlg. Mud, no shows of oil or gas; IFP  
17-22#, ISIP 80#, FFP 22-26#, FSIP 63#, IHP 2611#, FHP 2555#, BHT 118 Deg. F.

DST #2(Morrow Sandstone) 5967' - 6034'(Corrected Depths to LOG) Test Times 15"-45"-45"-90" IFP Weak  
0.25" Blow decreased to Surface Blow; FFP Strong Blow BOB/2 Min. decreasing blow that died in 22", no  
Blowback on SI's; REC: 310' Gas in Pipe, 30' Drlg. mud, no oil shows, no water; NOTE: TOOL WAS  
PLUGGED DURING MOST OF TEST; IFP 173-305#, ISIP 353#, FFP 104-244#, FSIP 257#, IHP 3119#, FHP 2972#,  
BHT 125 Deg. F.

DST #3(Mississippi Chester "C") 6081' - 6138'(Corrected Depths to LOG) Test Times 15"-45"-30"-60" IFP 0.25"  
Blow decreased to Surface Blow, FFP Weak Surface Blow, Flushed Tool, had 0.75" Blow that decreased to  
Surface Blow, no Blowback on SI's; REC: 30' Drlg. Mud, no show of oil or gas; IFP 46-52#, ISIP 121#, FFP  
50-53#, FSIP 184#, IHP 3119#, FHP 2993#, BHT 128 Deg. F.



**OTHER SYMBOLS**

- POROSITY**  
 [E] Earthy  
 [F] Fenest  
 [X] Fracture  
 [I] Inter  
 [M] Moldic  
 [O] Organic  
 [P] Pinpoint

[V] Vuggy

- SORTING**  
 [W] Well  
 [M] Moderate  
 [P] Poor

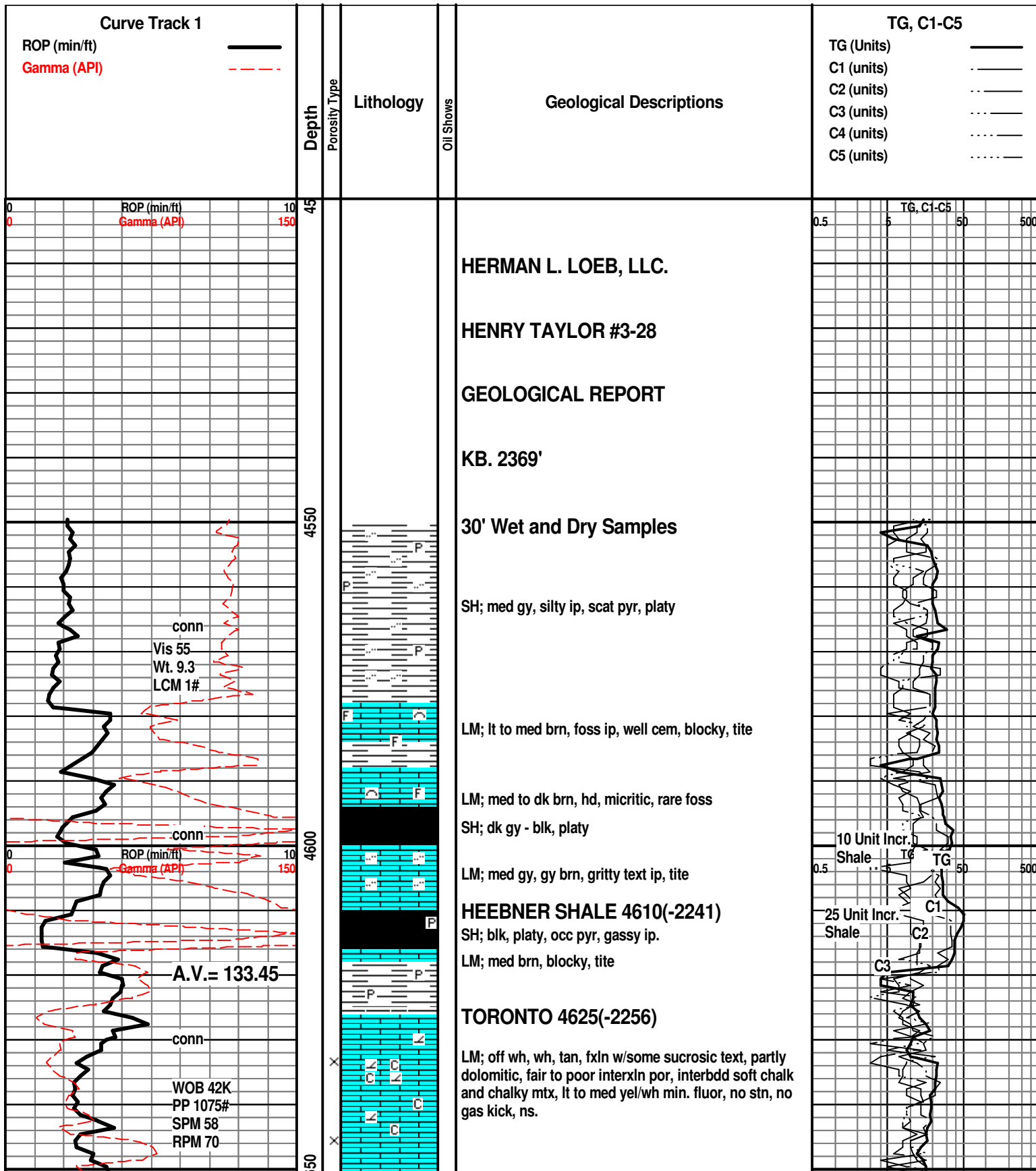
- ROUNDING**  
 [R] Rounded  
 [r] Subrnd  
 [a] Subang  
 [A] Angular

**OIL SHOW**  
 [O] Even

- [S] Spotted  
 [Q] Ques  
 [D] Dead

- INTERVAL**  
 [C] Core  
 [D] Dst

- EVENT**  
 [R] Rft  
 [S] Sidewall



**Curve Track 1**

ROP (min/ft) ———  
 Gamma (API) - - - -

**TG, C1-C5**

TG (Units) ———  
 C1 (units) . . . . .  
 C2 (units) . . . . .  
 C3 (units) . . . . .  
 C4 (units) . . . . .  
 C5 (units) . . . . .

conn  
 Vis 55  
 Wt. 9.3  
 LCM 1#

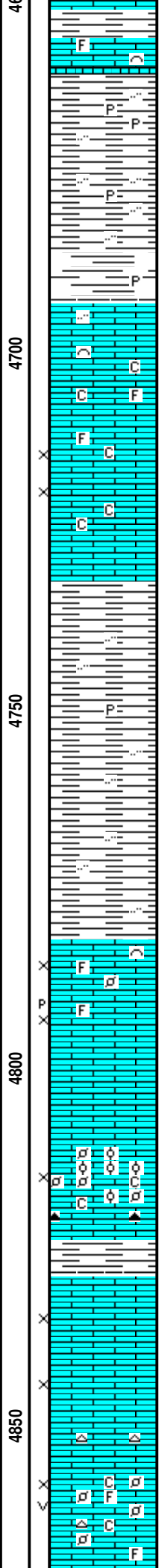
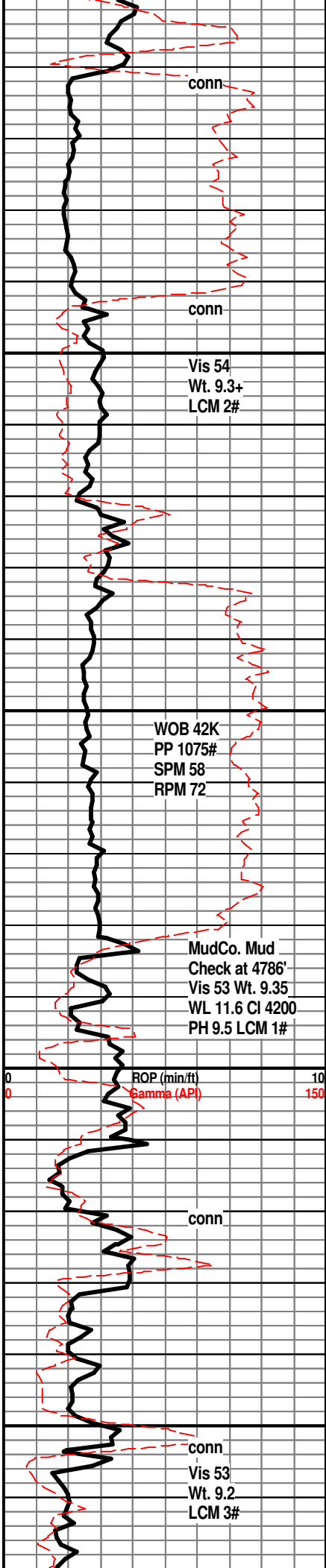
conn

A.V.= 133.45

conn

WOB 42K  
 PP 1075#  
 SPM 58  
 RPM 70

10 Unit Incr. Shale TG TG  
 25 Unit Incr. Shale C1 C2 C3



LM; med brn, foss ip, most dense

SH; med to dk gy, some brn, platy, silty ip, scat pyr

SH; med to dk gy, rare varic - red to rust brn, platy

LM; off wh, buff, wh, fxln, scat well cem foss mat, most well cem, occ chalky mtx, lt yel/wh min fluor, no gas kick, no stn or odor, ns.

LM; off wh, tan, buff, f to med xln, scat fair interxln por, interbdd soft chalky and chalky mtx, scat lt yel/wh min fluor, no stn, no gas kick, ns.

SH; med gy, grn, platy, occ silty, calc

**Start 10' Wet and Dry Samples at 4750'**

SH; grn, gy grn, fiss to flakey, occ silty

**LANSING 4782(-2413)**

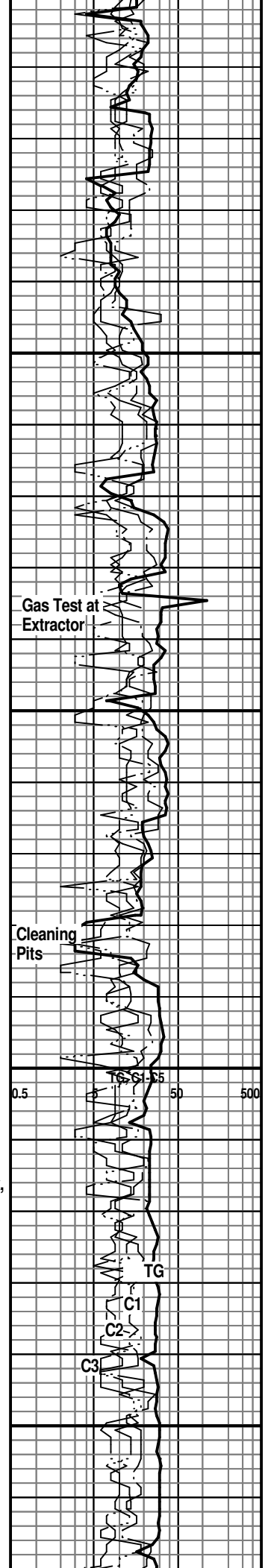
LM; tan to lt brn, gran to med xln, poor interxln w/scat p-p por, scat foss mat, lt yel/wh min. fluor, no stn or odor, no gas kick, ns.

LM; tan to off wh, wh, v. foss - finely pelletal, some oolitic, loosely cem, fair interpart por, minor chalky mtx, dull yel/wh min fluor, ns.

SH; med to dk gy, platy

LM; off wh, lt gy, lt brn, med to occ cse xln, occ spar calc xtals, fair interxln por, no fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, foss, scat well dev. vug and interpart por, chalky mtx, dull yel/wh min fluor only, cherty w/gy to off wh fresh cht, no stn or odor, no gas kick, ns.



A.V.= 133.45

conn

WOB 42K  
PP 1010#  
SPM 58  
RPM 75  
conn

conn

Vis 56  
Wt. 9.2  
LCM 3#

conn

ROP (min/ft)  
Gamma (API)

conn

WOB 42K  
PP 1020#  
SPM 58  
RPM 72

conn

Vis 54  
Wt. 9.3  
LCM 2#

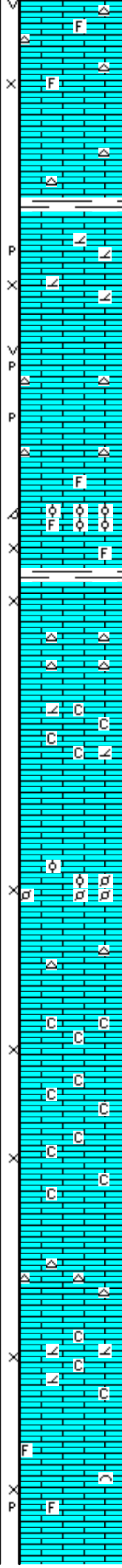
conn

4900

4950

5000

5050



LM; tan to buff, off wh, f to med xln, poor to fair interxln por, rarely foss, interbdd gy cht, lt yel min fluor, no stn, ns.

LM; tan to lt brn, buff, fxln w/interbdd sucrosic text, partly dolomitic, fair p-p and interxln por, scat lt yel/wh min fluor, no stn or odor, no gas kick, ns.

LM; lt to med brn, foss - partly oolitic, faint sulfur odor, fair interpart/moldic por, dull yel fluor, no vis stn, no gas kick, ns.

LM; lt to med brn, gran to med xln, faint sulfur odor, interbdd tan to off wh occ foss cht, dull yel to no fluor, no stn, ns.

LM; lt brn, foss w/scat small pellets and ooids, weakly cem, fair interpart por in some, dull yel min fluor, no stn, ns.

LM; tan to off wh, buff, f to med xln, very chalky mtx, rare small vug w/fair interxln por, v. dull yel to no fluor, no stn, no gas kick, ns.

LM; lt gy to gy brn, hd, cherty ip, tite

LM; tan to buff, lt brn, fxln w/trc sucrosic text, partly dolomitic, most soft w/fair interpart por, chalky ip, no fluor, ns.

LM; lt to med brn, foss ip, most well cem, scat poor interpart w/minor p-p por, no fluor, ns.

Gas Test at Extractor

TGC/C5  
0.5 5 50 500



A.V.=133.50

5100

conn  
WOB 42K  
PP 1030#  
SPM 58  
RPM 70

conn

Vis 55  
Wt. 9.2  
LCM 2#

conn

WOB 42K  
PP 1005#  
SPM 58  
RPM 77

ROP (min/#)

Gamma (A Conn)

Vis 65  
Wt. 9.1  
LCM 2#

conn

Change Wt.  
Indicator &  
Diaphragm

conn

MudCo. Mud  
Check at 5270'  
Vis 50 Wt. 9.25  
WL 9.6 Cl 4300  
PH 9.0 LCM 1#

conn

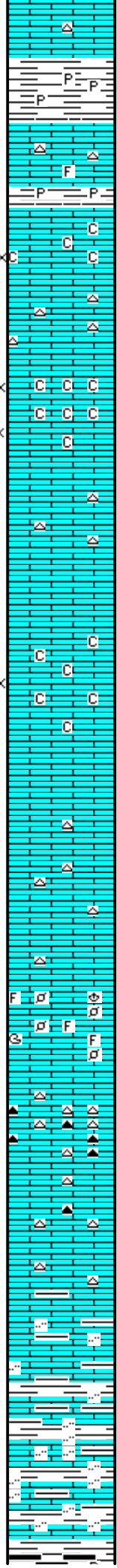
WOB 42K

5150

5200

5250

5300



SH; med to occ dk gy, pyr ip, platy

LM; med brn, foss ip, hd, occ gy cht, tite

**LANSING/KC "H" 5119(-2750)**

LM; off wh, buff, tan, fxln, fair interxln por, interbdd soft chalk and chalky lmst, dull to lt yel/wh min fluor, no stn, no gas kick, ns.

LM; tan to buff, off wh, fxln w/scat sucrosic text, chalky, fair interxln por, dull to lt yel min fluor, no stn, ns.

LM; lt brn, lt gy brn, most dense, blocky, scat gy to off wh occ foss cht, no vis por, ns.

LM; off wh, tan, fxln, most soft w/chalky mtx, poor interxln por, dull yel min fluor, no stn or odor, ns.

LM; lt gy, lt gy brn, most dense, scat opaque spar calc xtals, cherty w/lt to med gy fresh cht, no vis por, no fluor, ns.

LM; lt brn, foss w/scat pellets and hash, well cem, dull yel min fluor, no stn or odor, ns.

LM; tan to lt brn, hd, abnt med to dk gy cht, no vis por, no stn, ns.

LM; lt brn, rare tan, micritic, blocky, occ cherty, tite

LM; med to dk brn, gy brn, gritty/silty ip, argil, firm, interbdd lmy shale

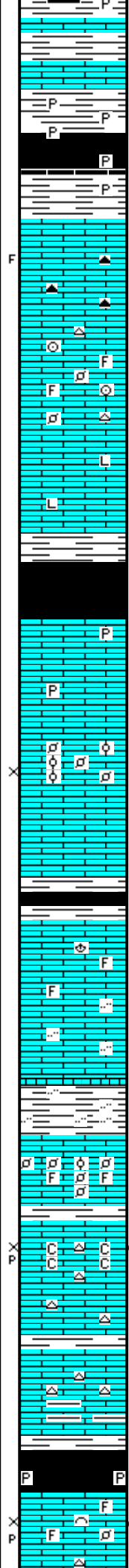
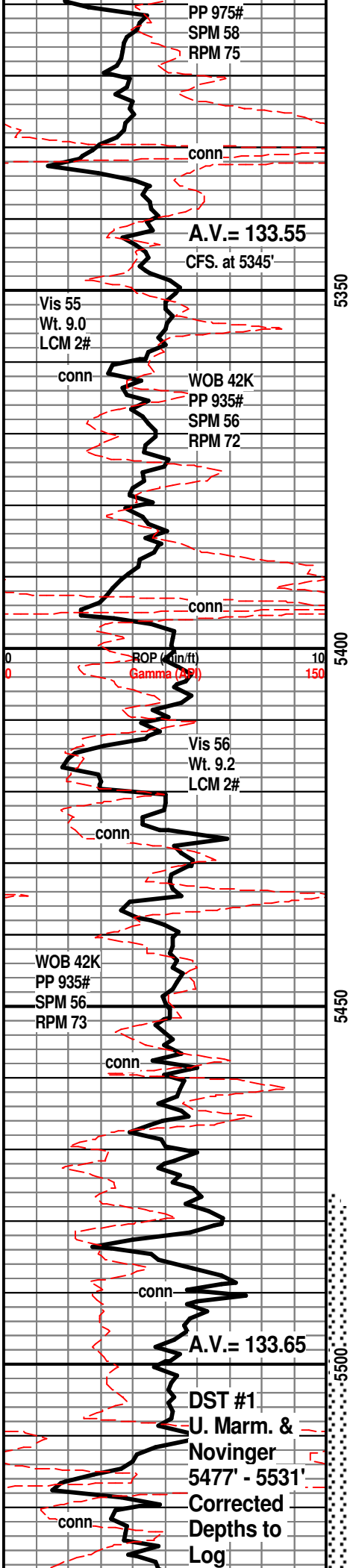
SH; med to dk gy, gy brn, interbdd argil lmst, silty ip.

SH; dk ov. blk. platv. occ ovr

0.5 50 500

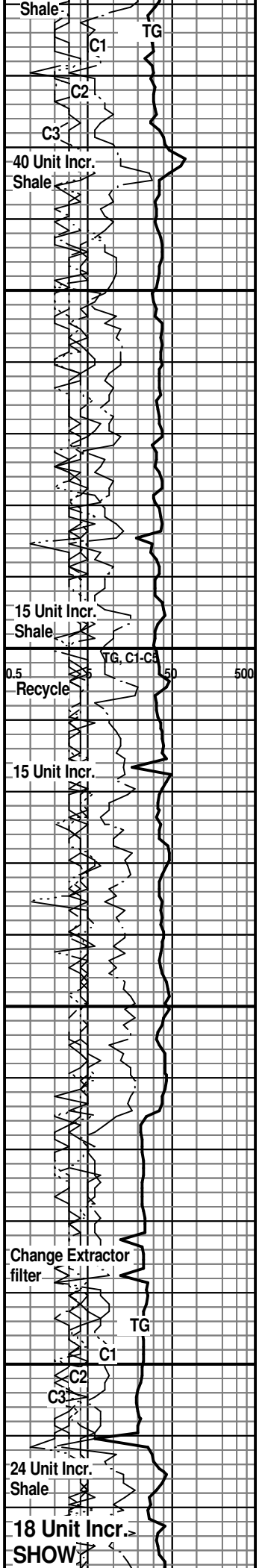
Gas Test at  
Extractor

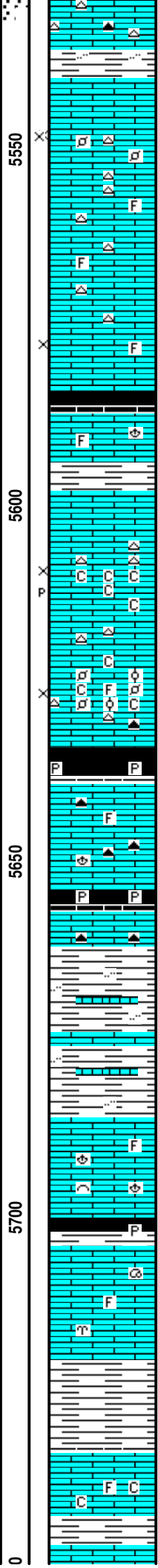
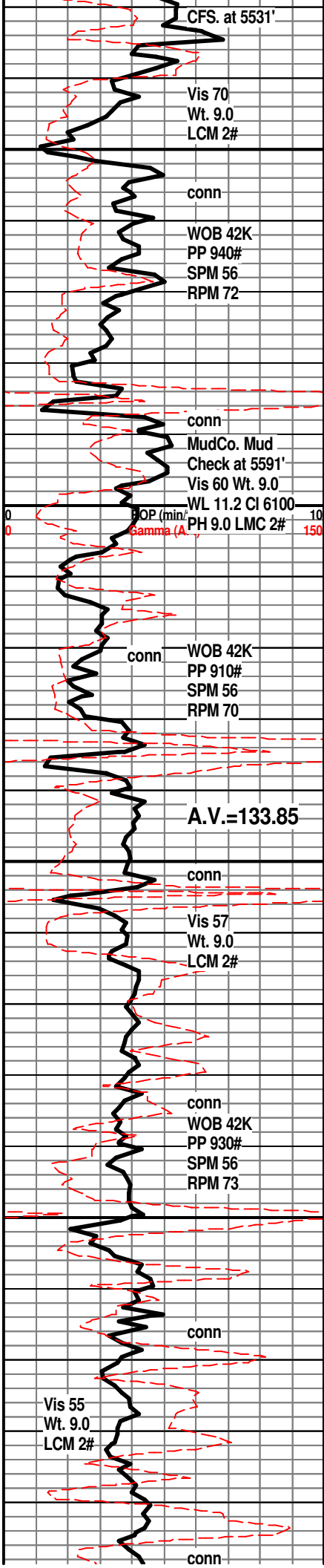
10 Unit Incr.



LM; med to dk brn, gy brn, argil, interbdd dk gy lmy shales

**STARK SHALE 5327(-2958)**  
 SH; blk, carb, gassy, trc pyr  
 SH; gy, grn, dk gy, platy, interbdd thin lmst strk.  
 LM; med brn, occ dk brn, scat edge calc xtals, poss frags, most dense, interbdd dk brn cht, no fluor, no stn or odor, ns.  
 LM; tan to lt brn, v. foss w/much hash, pellets, crin stems, etc., well cem, no vis por, scat tan to lt brn cht, no fluor, ns.  
 LM; med to dk brn, hd, litho, tite  
 SH; dk brn, dk gy brn, blk, platy, lmy ip, faint gassy odor  
**HERTHA 5396(-3027)**  
 LM; med brn, occ dk gy brn, dense, most micritic, rarely pyr, no vis por, no fluor, no stn, ns.  
 LM; lt brn, foss, scat ooids and med size foss pellets, weakly cem, interbdd tan f to med xln soft lmst, fair interpart por, v. dull yel fluor, no vis stn, no odor, no sample shows  
 SH; dk gy - blk, platy, firm  
 LM; med brn, foss ip, well cem, blocky, interbdd hd partly gritty - silty lmst, no vis por, no fluor, ns.  
**BASE KANSAS CITY 5461(-3092)**  
**MARMATON 5468(-3099)**  
 LM; lt brn, foss - abnt pellets, some hash, most well cem, scat cse spar calc cmt, dull yel min fluor, no stn or odor, ns.  
 LM; off wh, tan, buff, med xln w/poor to fair interxln w/scat p-p por, minor chalky mtx, few pcs. w/med to brite yel/blue-wh fluor, trc. v. light oil stn, poss. faint odor, no apparent gas kick, weak to fair cut, interbdd tan to lt gy cht  
 LM; tan to lt brn, some gy brn, fxln to micritic, scat argil lmst, rare off wh cht, no vis por, v. dull yel min fluor, no stn, ns.  
 SH; dk gy, blk, platy, occ pyr  
**NOVINGER ZONE 5518(-3149)**  
 LM; lt brn, fxln w/occ foss mat, fair interxln w/occ p-p por, med yel/blue - wh fluor, faint odor, spotted lt brn oil stn. trc gas bubbles. fair cut





**DST #1: Marm/Novinger 5477' - 5531'**

SH; grn, gy grn, silty, v. soft ip.

LM; tan to lt brn, foss ip, scat oolitic cht, most well cem, dull to lt yel min fluor, no vis por, no gas kick

LM; lt to med brn, f to med xln, scat foss mat, poor interxln por, cherty ip, dull to lt yel min fluor, ns.

SH; blk, carb ip, gassy

LM; med brn, foss ip, some dense micritic, no vis por, ns.

SH; med gy, firm

LM; off wh, tan, buff, med xln w/fair interxln w/some p-p por, cherty ip, interbdd soft chalky lmst, spotted med yel min fluor, no vis stn, no odor, no gas kick

LM; tan to buff, foss - scat small pelletal/ooids, weakly cem - fair interpart por, chalky mtx ip, few pcs of wh oolitic cht, dull yel to no fluor, no stn or odor, ns.

SH; blk, carb ip, pyr, trc gas

LM; tan to lt brn, foss ip, most dense - micritic, scat smoky cht, no vis por, ns.

**CHEROKEE SHALE 5654(-3285)**

SH; blk, carb ip, occ pyr

LM; med brn, hd, scat dk gy to smoky cht, no vis por, tite

SH; med to dk gy, silty ip, interbdd hd lmy shale

SH; med gy, gy brn, lmy, hd, occ silty

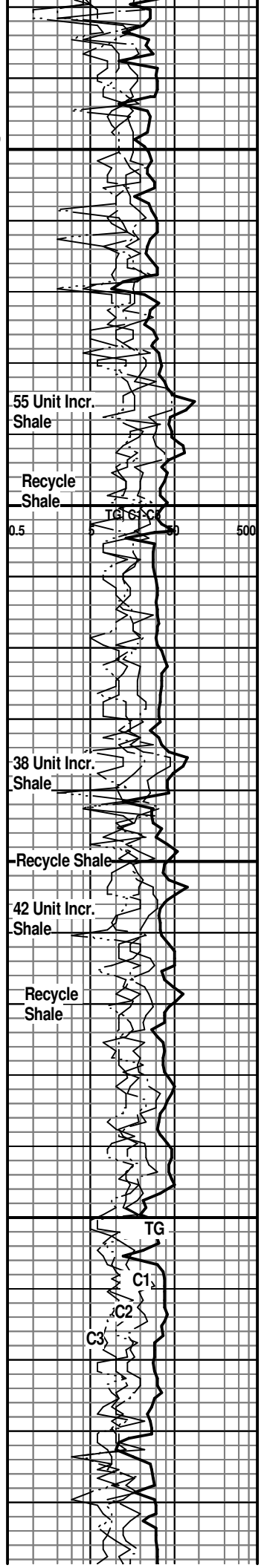
LM; lt to med brn, foss ip, most well cem, blocky, no vis por, tite, ns.

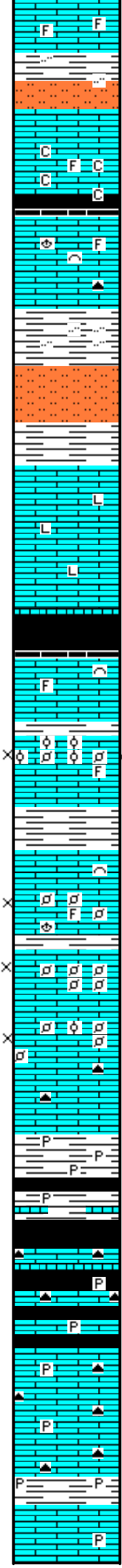
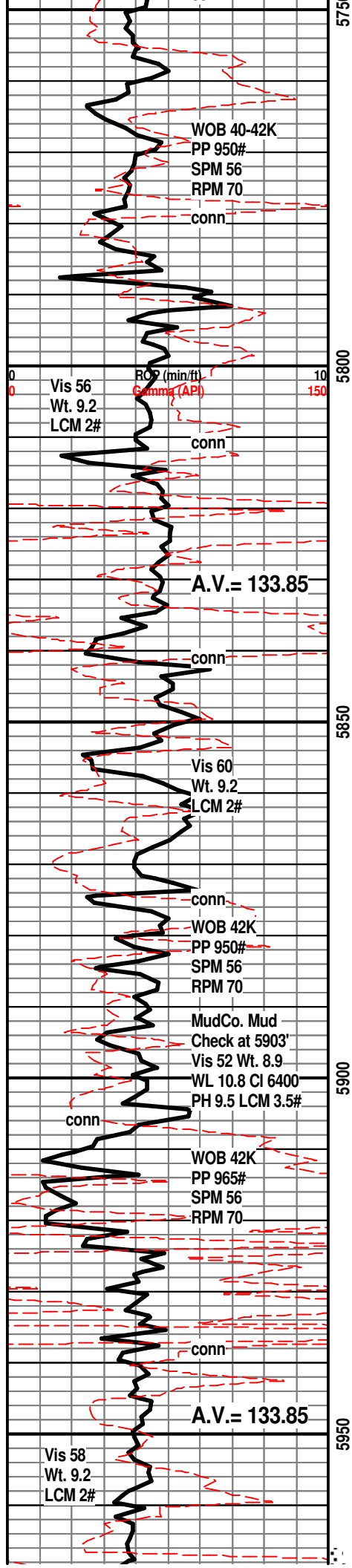
SH; blk, platy, smooth, rare pyr

LM; med brn, med gy brn, dense, scat foss mat, hd, no vis por, no fluor, ns.

SH; med gy, occ lt gy grn, firm, platy

LM; tan to lt brn, fxln w/rare foss, most dense, minor chalky mtx, dull yel min fluor, ns.





LM; lt brn, tan, rxin to micritic, hd, scat well cem foss, no fluor, no stn, ns.

SH; lt gy, soft, silty w/interbdd sltst.

LM; tan to buff, lt brn, f to occ med xln, rare foss, minor chalky mtx, no vis por, dull yel min fluor only, no stn, ns.

LM; tan to off wh, buff, foss w/scat fusulinids, most hd, well cem, rare nodular org cht, no vis por, no fluor, ns.

SH; lt to med gy, firm, silty w/interbdd sltst, firm

SH; med to dk gy, calc, lmy, v. firm

LM; med to dk brn, some dk gy brn, micritic, hd, no vis por, no fluor, ns.

LM; med brn, hd, blocky, some litho, dense

**ATOKA 5835(-3466)**  
SH; blk, v. dk gy, platy, carb ip.

LM; lt brn, tan, scat well cem foss mat, hd, no vis por, no fluor, occ gy cht, no vis stn, ns.

LM; lt brn, highly foss w/small pellets/ooids, fair interpart por, spotted lt brn oil stn, med to occ brite yel fluor, few gas bubbles, fair odor when crushed, fair cut

SH; med gy grn, firm

LM; med gy, med gy brn, foss ip, most well cem, scat small oolites and occ pellets, poor vis interpart por, v. dull yel to no fluor, no stn or odor, no gas kick, ns.

LM; lt to med brn, rare med gy, scat well cem foss mat, occ finely pelletal, poor interpart por, v. dull yel fluor, no stn or odor, no sample shows

SH; dk gy, dk brn - blk, interbdd thin hd gy lmst, occ pyr

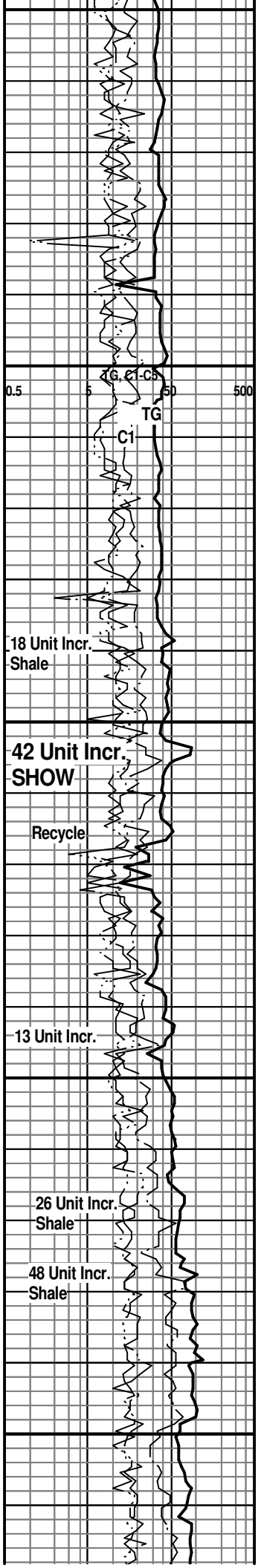
SH; med to dk gy, fiss to flakey, occ pyr

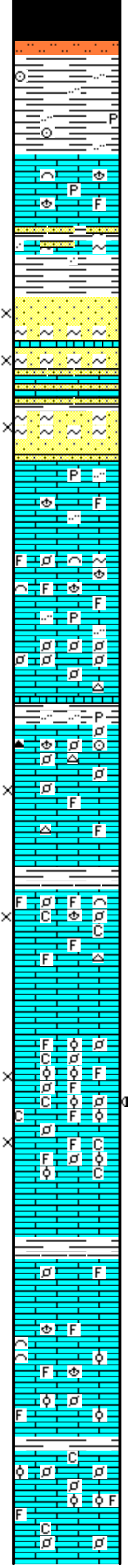
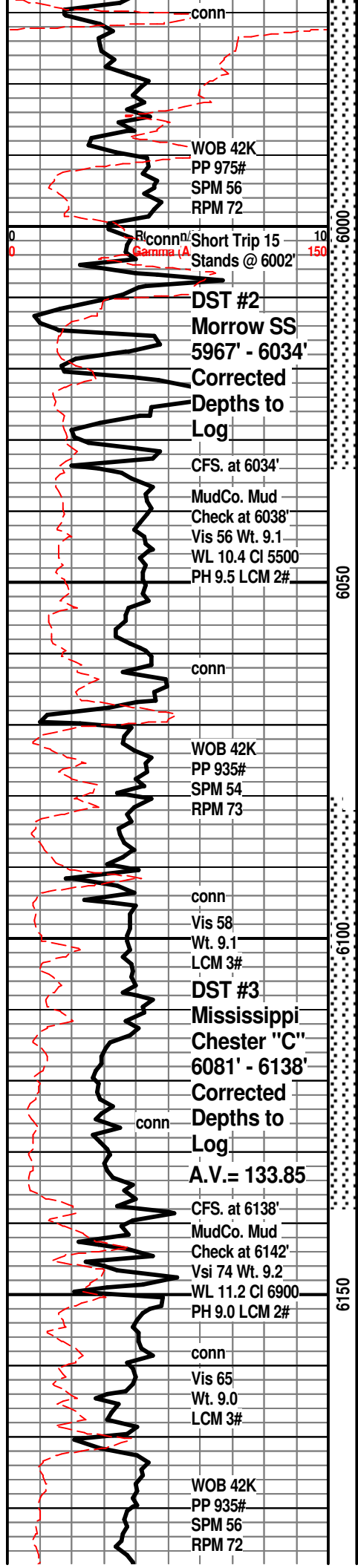
LM; dk gy, dk brn, hd, interbdd dk gy to blk shales, occ blk to smoky cht, blocky, tite, occ pyr

LM; med to dk brn, blocky, scat smoky to dk gy cht, occ pyr, no vis por, dense, no fluor, ns.

SH; dk gy, trc blk, pyr ip, platy

LM; dk gy, gy brn, dense, massive bdd, tite





**SH; blk, soft, coaly, trc gas**

SH; lt to med gy, silty ip, scat grn slitst, foss, interbdd mouse gy soft silty sh.

LM; lt to med brn, hd, scat well cem foss mat, pyr ip, no fluor, ns.

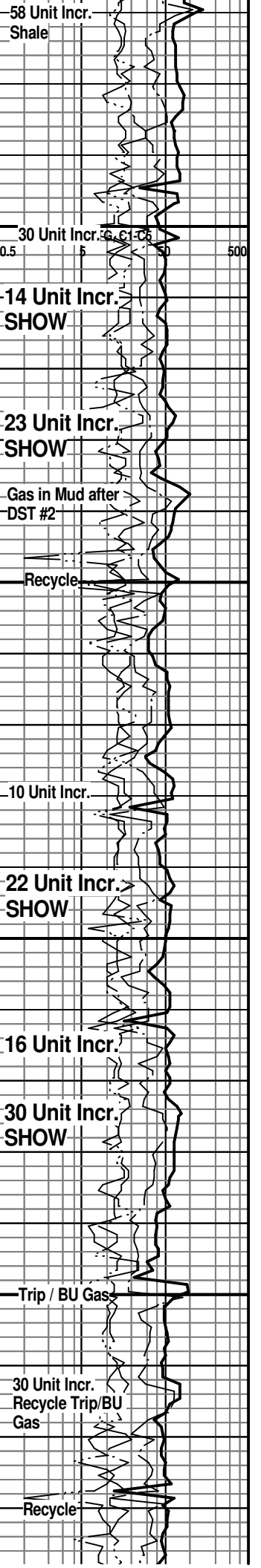
LM; med brn, cse xln, foss w/fair interpart por, glau, scat fr gr qtz ss, lt yel fluor, no odor

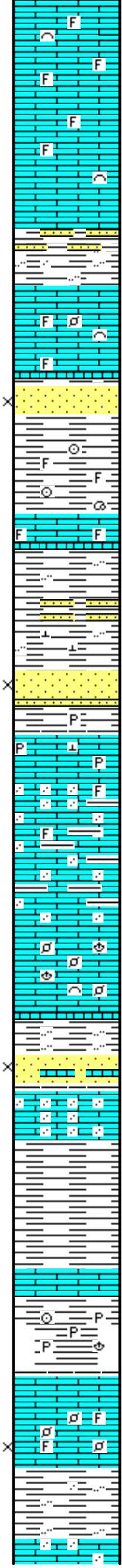
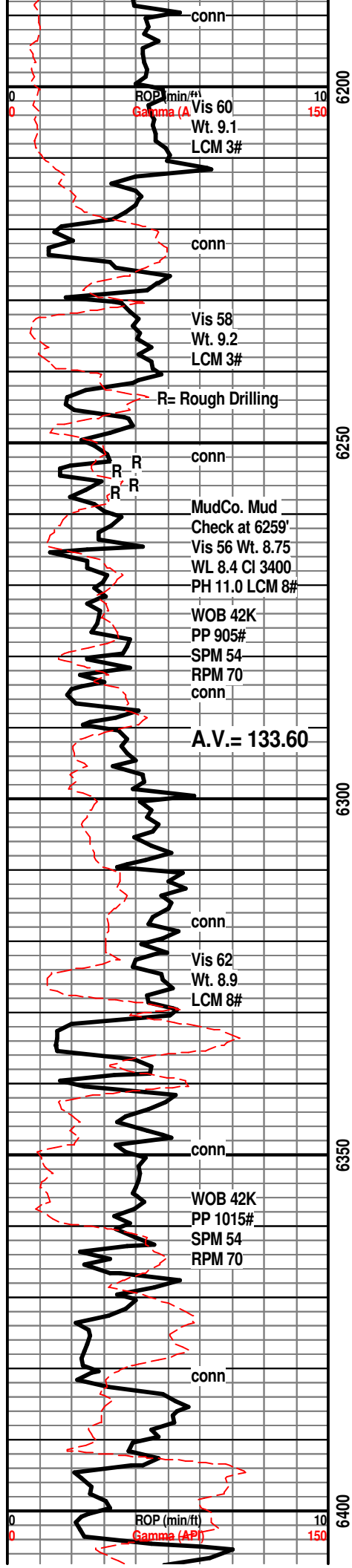
**MORROW SAND 6010(-3641)**  
 SS; lt gy, pale grn, vf to f gr qtz, fair/gd intergran por, lt yel fluor, gas bubbles, no odor, no vis oil stn, glau ip, gas show only, interbdd hd lmy ss  
 SS; clr, f gr qtz, glau, gd intergran por, sev. gas bubbles, lt yel fluor, no odor, trc. clr oil droplets - possible cond.  
 SS; lt gy, clr, f gr qtz, clusters, occ gas bubbles, glau, fair intergran por, lt yel fluor, no odor

**DST #2: Morrow SS. 5967' - 6034'**  
**MISS. CHESTER 6033(-3664)**  
 LM; med to dk brn, rarely foss, most dense - micritic, no fluor, no vis por, ns.  
 LM; lt to med brn, highly foss, scat cse foss frags, well cem, rare glau, dull yel min fluor, no vis por, no stn or odor, ns.  
 SH; grn, gy grn, silty, pyr ip.  
 LM; off wh, tan, foss - abnt gy rnd pellets, interbdd lt brn cse xln lmst, dull yel fluor, no vis por, no stn or odor, no gas kick, ns.

**CHESTER "C" ZONE 6070(-3701)**  
 LM; tan to lt brn, foss - pelletal w/abnt foss frags, rare brn/amber cht, interbdd cse xln lmst w/scat poor to fair interxln por, lt yel fluor, no odor, no cut, quest. gas bubbles  
 LM; tan to off wh, lt brn, med to cse xln, scat cse foss frags, fair interpart/interxln por, chalky ip, dull to lt yel fluor, sev. gas bubbles, no odor, no vis oil stn, no cut  
 LM; tan to off wh, buff, cse xln w/abnt foss frags, pellets and small oolites, loosely cem, fair interxln/interpart por, occ chalky mtx, few pcs w/med brn spotted oil stn, lt to occ med yel fluor, no odor, sev. gas bubbles, weak cut  
 LM; tan to buff, lt brn, foss - pelletal/oolitic ip, uniform lt yel fluor, faint gas odor, sev. gas bubbles, no vis oil stn, fair interpart por

**DST #3: Miss.Chester "C" 6081' - 6138'**  
 LM; tan to med brn, occ foss, most blocky, scat dull to lt yel fluor, no vis por, ns.  
 LM; lt brn, lt gy brn, abnt cse foss frags, scat pellets/hash, no vis por, lt yel min fluor, no stn or odor, ns.  
 LM; tan to lt brn, buff, foss w/scat lrg well cem pellets and oolites, much foss hash, interbdd chalky mtx, dull yel to no fluor, no stn or odor, ns.





LM; off wh, tan, buff, foss, all well cem, dense, no vis por, dull to lt yel min fluor, no stn or odor, no sample shows

SH; grn, gy grn, platy, silty ip, sandy ip - trc brn f gr ss clusters, shaly ip,

LM; lt to med brn, foss ip, hd, no vis por, scat lt yel fluor, no stn or odor, ns.

SS; med brn, f gr, qtz, clusters, poor to fair intergran por, no fluor, no stn or odor, ns.

SH; med brn, gy, gy grn, platy

**Lost Circulation at 6259' - Pipe Stuck in the Hole - Spot Oil, Came loose OK**

LM; med gy, foss, well cem, tite, no fluor, ns.

SH; med gy, gyn, brn, platy, firm, interbdd med gy sandy sh and argil ss

SS; med brn, vf gr, argil ip, firm, clusters, v. poor intergran por, most tite, v. dull yel min fluor, no stn or odor, no apparent gas kick

LM; med gy, sandy, dense, v. hd, no vis por, rare foss mat, no fluor, ns.

LM; tan to lt gy, gy brn, v. foss, most well cem, scat lt yel min fluor, no vis por, no stn or odor, no apparent gas kick

SH; grn, silty, soft

SS; brite grn, f gr qtz, clusters, some fri, poor to fair intergran por, no fluor, no gas kick, ns.

LM; lt to med gy, gy brn, sandy ip, interbdd f gr qtz in mtx, well cem, no vis por, no fluor, ns.

SH; med gy, occ gy grn, smooth, platy

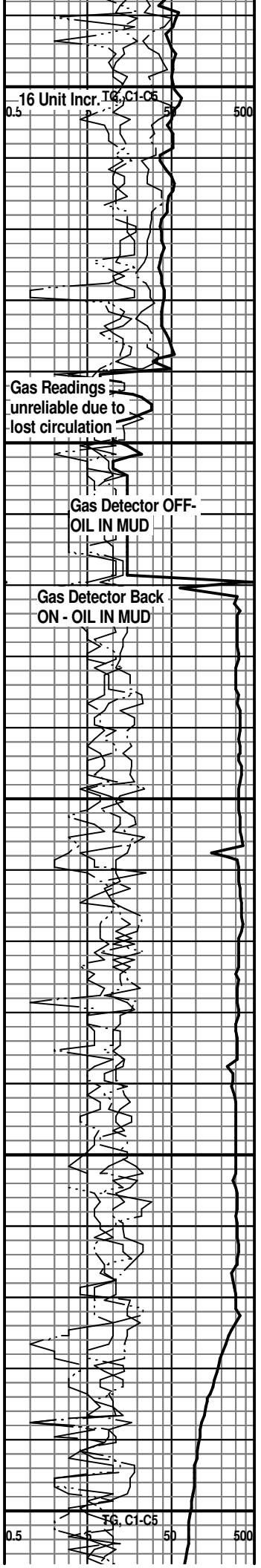
LM; lt brn, buff, micritic, hd

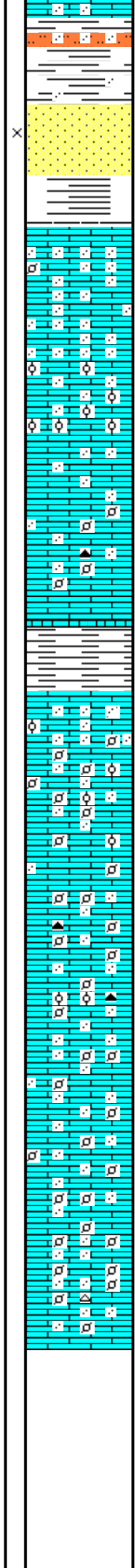
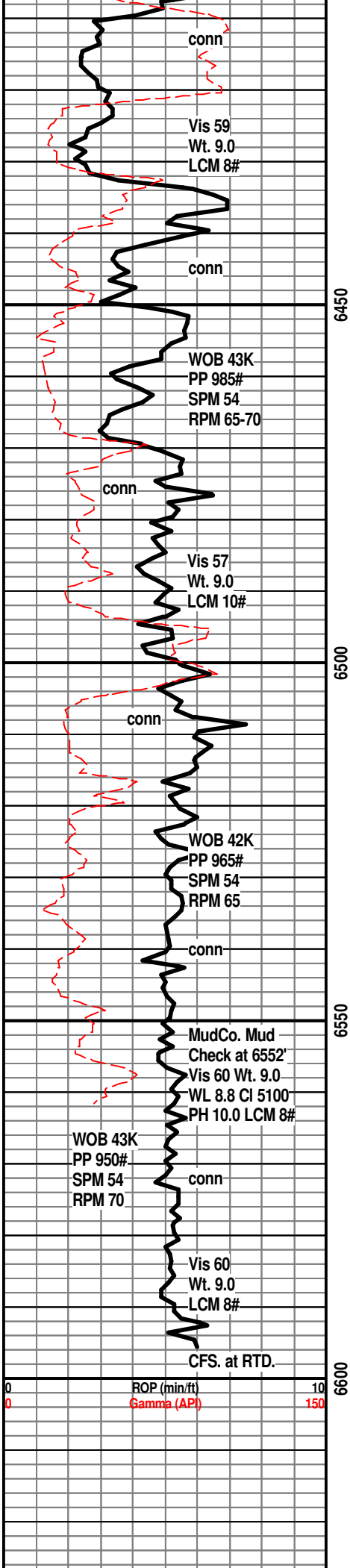
SH; varic, grn, maroon, rust red/brn, platy, occ sandy

LM; tan to lt brn, cse xln w/abnt foss frags, trc poor interpart por, dull to occ lt yel fluor, no vis stn, no odor, no apparent gas kick

SH; dk gy, fiss - flakey, silty ip.

LM; med grn, hd, sandy to gritty, dense, no vis por, ns.





SH; varic, grn, gy, rust red, trc yel, platy, occ silty w/interbdd sltst.

**BASAL CHESTER SS 6422(-4053)**

SS; med to brite grn, firm, interbdd vf to fg gr qtz, soft ip w/poor to fair vis intergran por, no fluor, no stn or odor, no apparent gas kick

**ST. GENEVIEVE 6439(-4070)**

LM; wh, off wh, v. sandy w/much vf to f gr qtz embdd in dense lmst mtx, hd, no vis por, no fluor, no gas kick, ns.

LM; off wh, lt gy, wh, sandy, rare off colored inclusions, dense, no vis por, no fluor, ns.

LM; off wh, lt gy, tan, abnt vf to gr qtz embdd in dense mtx, interbdd finely oolitic lmst - well cem, no vis por, no stn or odor, ns.

LM; off wh, tan, buff, sandy w/scat small rnd carb pellets, trc org cht, most dense, no vis por, no fluor, ns.

**ST. LOUIS 6504(-4135)**

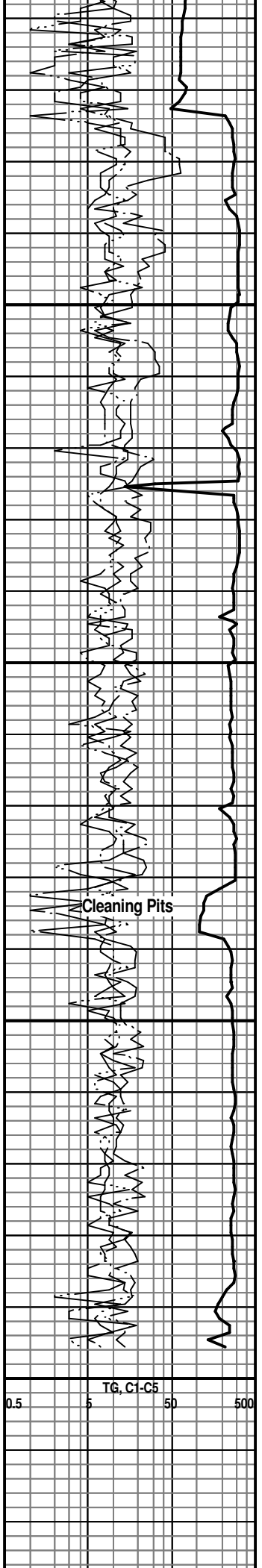
LM; off wh, tan, finely pelletal, scat small oolites - tan to grn, some v. sandy w/abnt vf to f gr qtz in mtx, hd, no vis por, no fluor, no stn, ns.

LM; tan to lt gy brn, finely pelletal w/interbdd qtz ss gr, trc org cht, well cem, no vis por, no fluor, ns.

LM; tan to buff, rare lt brn, hd, rare small well cem oolites, scat rnd carb pellets, no vis por, trc amber/org cht, no fluor, ns.

LM; off wh, tan, sandy, scat small carb pellets, hd, well cem, no vis por, ns.

LM; off wh, buff, tan, sandy - finely pelletal, hd, no vis por, trc gy cht, no fluor, ns.



RTD. 6600' at 4:45 PM. 7/10/2013

LTD. 6598'

Halliburton DII NEU/DEN Microlog

Halliburton DIL, NEO/DEN, microlog,  
Sonic

**NOTE: This log was shifted upward by  
3' to 4' for correlation purposes with the  
Halliburton LOGS.**

6650





**BASIC**  
ENERGY SERVICES

6076  
740-11R43  
6438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 06/28/2013
INVOICE NUMBER 1717 - 91225499		

Liberal (620) 624-2277  
B HERMAN L LOEB LLC  
I PO Box: 838  
L LAWRENCEVILLE  
L IL US 62439  
T  
O ATTN: ACCOUNTS PAYABLE

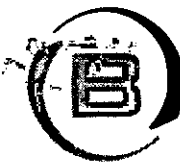
J LEASE NAME Henry Taylor #3-28  
O LOCATION  
B COUNTY Meade  
S STATE KS  
I JOB DESCRIPTION Cement-New Well Casing/Pi  
T  
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40611811	19570		Net - 30 days	07/28/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 06/27/2013 to 06/27/2013</b>				
0040611811				
171704409A Cement-New Well Casing/Pi 06/27/2013 8 5/8" Surface				
A-Con' Blend	330.00	EA	12.20	4,026.20 T
Premium Plus Cement	150.00	EA	10.69	1,603.80 T
Calcium Chloride	1,215.00	EA	0.69	836.83 T
Celloflake	120.00	EA	2.43	291.24 T
C-51	63.00	EA	16.40	1,033.12 T
"Guide Shoe - Regular, 8 5/8" (Blue)"	1.00	EA	249.26	249.26
"Flapper Ins. Flt. Viv., 8 5/8" (Blue)	1.00	EA	183.67	183.67
Antelope Strd Bow Cent. 8 5/8 X 12 1/4	3.00	EA	95.11	285.34
"Cmt Basket, Canvas 8 5/8"	1.00	EA	688.75	688.75
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	147.59	147.59
Heavy Equipment Mileage	150.00	MI	4.59	688.75
Blending & Mixing Service Charge	480.00	BAG	0.92	440.80
"Proppant & Bulk Del. Chgs., per ton mil	1,130.00	EA	1.05	1,185.96
Depth Charge; 1001'-2000'	1.00	EA	983.93	983.93
Plug Container Util. Chg.	1.00	EA	163.99	163.99
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	2.79	139.39
"Service Supervisor, first 8 hrs on loc.	1.00	EA	114.79	114.79

PAID  
4675  
JUL 1 2013  
SCA

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	13,063.41
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	568.76
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	13,632.17
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 04409 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>6-27-13</b> DISTRICT <b>1717</b>		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 <b>Herman Lock</b>		LEASE <b>Henry Taylor #3-28</b> WELL NO.				
ADDRESS		COUNTY <b>Meade</b> STATE <b>KS</b>				
CITY STATE		SERVICE CREW <b>J. Chauc, Sam, Daniel, Norma</b>				
AUTHORIZED BY <b>Tony Benth TRB</b>		JOB TYPE: <b>242 8 3/4 Surface</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>6-27-13</b> DATE AM PM <b>1:30</b>
<del>78938</del>	<del>8</del>	<del>33021</del>	<del>8</del>	<del>14354</del>	<del>8</del>	ARRIVED AT JOB <b>6-27-13</b> AM PM <b>3:00</b>
		<b>14284</b>	<b>1</b>	<b>19578</b>	<b>1</b>	START OPERATION <b>6-27-13</b> AM PM <b>9:30</b>
<b>70897</b>	<b>8</b>					FINISH OPERATION <b>6-27-13</b> AM PM <b>10:50</b>
<b>19570</b>	<b>1</b>					RELEASED <b>6-27-13</b> AM PM <b>12:00</b>
						MILES FROM STATION TO WELL <b>50</b>

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. Any 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.

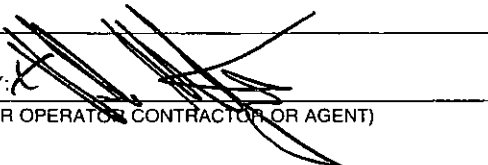
SIGNED:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	AMOUNT
CL101	A-Cor Blend	SK	330		6138 00
CL110	Premium Plus Cont	SK	150		2445 00
CC109	Calcium Chloride	LB	1215		1275 75
CC102	Celloflake	LB	120		444 00
CC130	C-51	LB	63		1575 00
CF253	Guide Shoe	EA	1		380 00
CF1453	Insert Flat Valve	EA	1		280 00
CF4405	Centralizer	EA	3		435 00
CF4556	Cont Basket	EA	1		1050 00
CF105-	Rubber Plug	EA	1		225 00
E101	Heavy Equipment Mileage	mi	150		1050 00
CE240	Blending & Mixing Charge	SK	480		672 00
E113	Bulk Delivery Charge	FM	1130		1808 00
CE202	Depth Charge	4 hrs	1		1500 00
CE504	Plus Contingency Charge	job	1		250 00
E100	Pickup Mileage	mi	50		212 50
5003	Service Supervisor	EA	1		175 00
SUB TOTAL					<b>13063 44</b>

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE **Samuel Chauc**

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:   
(WELL OWNER OPERATOR, CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**BASIC™**  
ENERGY SERVICES  
Liberal, Kansas

**Cement Report**

Customer <i>Herman Loeb</i>	Lease No.	Date <i>6-27-13</i>
Lease <i>Henry Taylor</i>	Well # <i>3-28</i>	Service Receipt <i>04409</i>
Casing <i>8 5/8</i>	Depth <i>1410</i>	County <i>Meade</i>
Job Type <i>242</i>	Formation	State <i>KS</i>
		Legal Description <i>28-34-20</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8</i>	Tubing Size	Shots/Ft		Lead <i>330 slt A Con</i>
Depth <i>1410</i>	Depth	From	To	<i>295 ft 3.5k</i>
Volume <i>87 bbls</i>	Volume	From	To	<i>18.6d slt 11.4 #</i>
Max Press <i>1800</i>	Max Press	From	To	Tail in <i>50 slt Class C</i>
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To	<i>1.34 ft 3.5k</i>
Plug Depth <i>1370</i>	Packer Depth	From	To	<i>6.36d slt 14.8 #</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1500</i>					<i>Arrive On Location</i>
<i>1600</i>					<i>Safety Meetg - Rig Up</i>
<i>1900</i>					<i>Rig Runng Casing</i>
<i>2130</i>					<i>Circulate w/ Rig</i>
<i>2200</i>					<i>Hook Up To BES</i>
<i>2205</i>	<i>1500</i>		<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>
<i>2210</i>	<i>300</i>		<i>173</i>	<i>6.0</i>	<i>Pump Lead amt @ 11.4 #</i>
<i>2220</i>	<i>250</i>		<i>36</i>	<i>5.0</i>	<i>Pump Tail amt @ 14.8 #</i>
<i>2230</i>					<i>Drop Plug - Wash Up</i>
<i>2235</i>	<i>300</i>		<i>77</i>	<i>6.0</i>	<i>Displac.</i>
<i>2255</i>	<i>500</i>		<i>10</i>	<i>2.0</i>	<i>Shut Down</i>
<i>2300</i>	<i>1000</i>		<i>1</i>	<i>1</i>	<i>Land Plug - Float Held</i>
					<i>Cement To Surface</i>
					<i>Job Complete</i>
					<i>Thanks For Using Basic Energy Services</i>

Service Units	<i>78938</i>	<i>70897-19570</i>	<i>33021-14284</i>	<i>14394-19578</i>	
Driver Names	<i>J. Chavez</i>	<i>Sam</i>	<i>Daniel</i>	<i>Norma</i>	

*WES* Customer Representative      *Tony Burt* Station Manager      *Samuel Chavez* Cementer

Taylor Printing, Inc.



6076  
740 Taylor #3  
6438

PAGE 1 of 1	INVOICE NO 1007589	INVOICE DATE 07/12/2013
INVOICE NUMBER 1717 - 91235611		

**Liberal** (620) 624-2277  
 B HERMAN L LOEB LLC  
 I PO Box: 838  
 L LAWRENCEVILLE  
 L IL US 62439  
 T  
 O **ATTN:** ACCOUNTS PAYABLE

**J LEASE NAME** Henry Taylor #3-28  
**O LOCATION**  
**B COUNTY** Meade  
**S STATE** KS  
**I JOB DESCRIPTION** Cement-New Well Casing/Pi  
**T JOB CONTACT**  
**E**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40616596	37726		Net - 30 days	08/11/2013

*For Service Dates: 07/12/2013 to 07/12/2013*

0040616596

171704441A Cement-New Well Casing/Pi 07/12/2013  
 5 1/2" Longstring

PAID  
42042  
JUL 26 2013  
SCANNED

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
50/50 POZ	200.00	EA	7.27	1,453.79 T
60/40 POZ	50.00	EA	7.93	396.49 T
Gypsum	840.00	EA	0.50	416.31 T
KCL	452.00	EA	0.99	448.03 T
Gilsonite	1,200.00	EA	0.44	531.29 T
Celloflake	51.00	EA	2.45	124.70 T
C-41P	42.00	EA	2.64	111.02 T
C-15	84.00	EA	8.26	693.85 T
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	237.89	237.89
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	264.32	264.32
Antelope 5 1/2 X 7 7/8 Turbo	12.00	EA	49.56	594.73
"Cmt Basket, Canvas 5 1/2"	2.00	EA	631.08	1,262.15
Heavy Equipment Mileage	100.00	MI	4.63	462.57
Blending & Mixing Service Charge	250.00	BAG	0.93	231.28
"Proppant & Bulk Del. Chgs., per ton mil	527.50	EA	1.06	557.72
Depth Charge; 6001'-7000'	1.00	EA	2,141.04	2,141.04
Plug Container Util. Chg.	1.00	EA	165.20	165.20
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	2.81	140.42
"Service Supervisor, first 8 hrs on loc.	1.00	EA	115.64	115.64
Cement Data Acquisition Monitor	1.00	EA	363.45	363.45
High Head Charge (Over 6')	1.00	EA	198.24	198.24

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	10,910.13
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	<b>TAX</b>	340.30
PO BOX 841903	801 CHERRY ST, STE 2100	<b>INVOICE TOTAL</b>	11,250.43
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277


FIELD SERVICE TICKET  
1717 04441 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: <b>7/12/13</b>	DISTRICT: <b>1717</b>	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: <b>Herman Loeb</b>		LEASE: <b>Henry Taylor 3-28</b>						WELL NO.:		
ADDRESS:		COUNTY: <b>Meade, KS</b>		STATE:						
CITY:		STATE:		SERVICE CREW: <b>Tommy, Daniel</b>						
AUTHORIZED BY: <b>Tyce</b>		JOB TYPE: <b>242 LS.</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<del>48939</del>	<del>9</del>						<b>6/11</b>			<b>10:10</b>
<del>37926</del>	<del>3.5</del>						<b>6/11</b>			<b>5:38</b>
<del>38119</del>	<del>4.5</del>						<b>6/12</b>			<b>6:40</b>
										<b>7:00</b>
						RELEASED				
						MILES FROM STATION TO WELL	<b>50</b>			

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:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL104	50/50 POE	SK	200		2200 00
CL103	60/40 POE	SK	50		600 00
CC113	Gypsum	Lb	840		630 00
C700	TKCL	Lb	452		678 00
CC201	Gilsonite	Lb	1,200		804 00
CC102	Cellulose	Lb	51		188 70
CC105	C-41P	Lb	42		168 00
CC103	C-15	Lb	94		1050 00
CF1251	Autofill float shoe	EA	1		360 00
CF607	Latchdown PTB	EA	1		400 00
CF4452	Centralizers	EA	12		900 00
CF4552	Basket	EA	2		1910 00
E101	Heavy Equip Mileage	Mi	1000		700 00
CE240	Blending & Mixing Charge	SK	250		350 00
E113	Bulk Delivery	Ton	528		844 00
CE204	Depth Charge 6000' to 7000'	Lhr	1		3240 00
CE504	Plug Container	Job	1		250 00
E100	Pickup Mileage	Mi	50		212 50
S003	Service Super 01307	EA	1		175 00

SUB TOTAL **10910.13**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <b>Chad Hinz</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
FIELD SERVICE ORDER NO.	(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)





### Cement Report

Customer <i>Herrman Loop</i>	Lease No.	Date <i>7/12/13</i>
Lease <i>Henry Taylor</i>	Well # <i>3-28</i>	Service Receipt
Casing <i>5 1/2 17"</i> Depth <i>6576</i>	County <i>Meade</i>	State <i>KS</i>
Job Type <i>L.S.</i>	Formation	Legal Description <i>28-34-26</i>

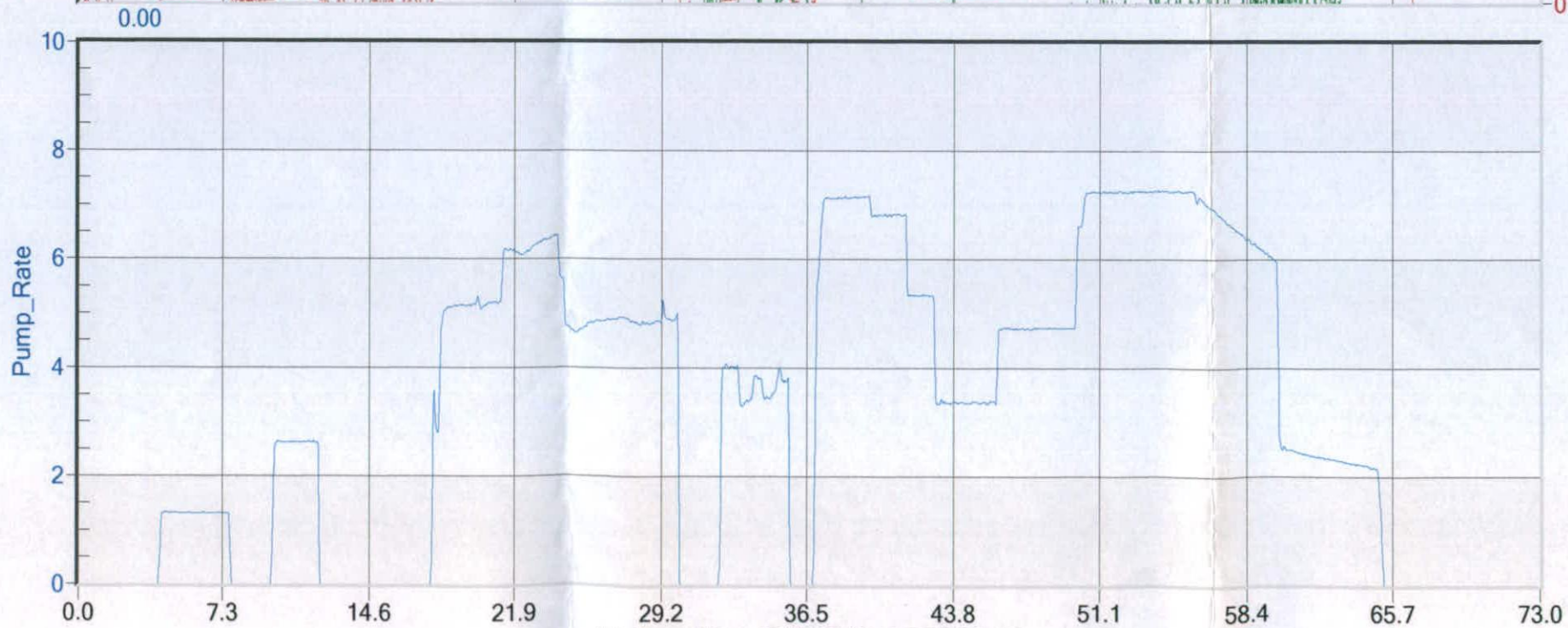
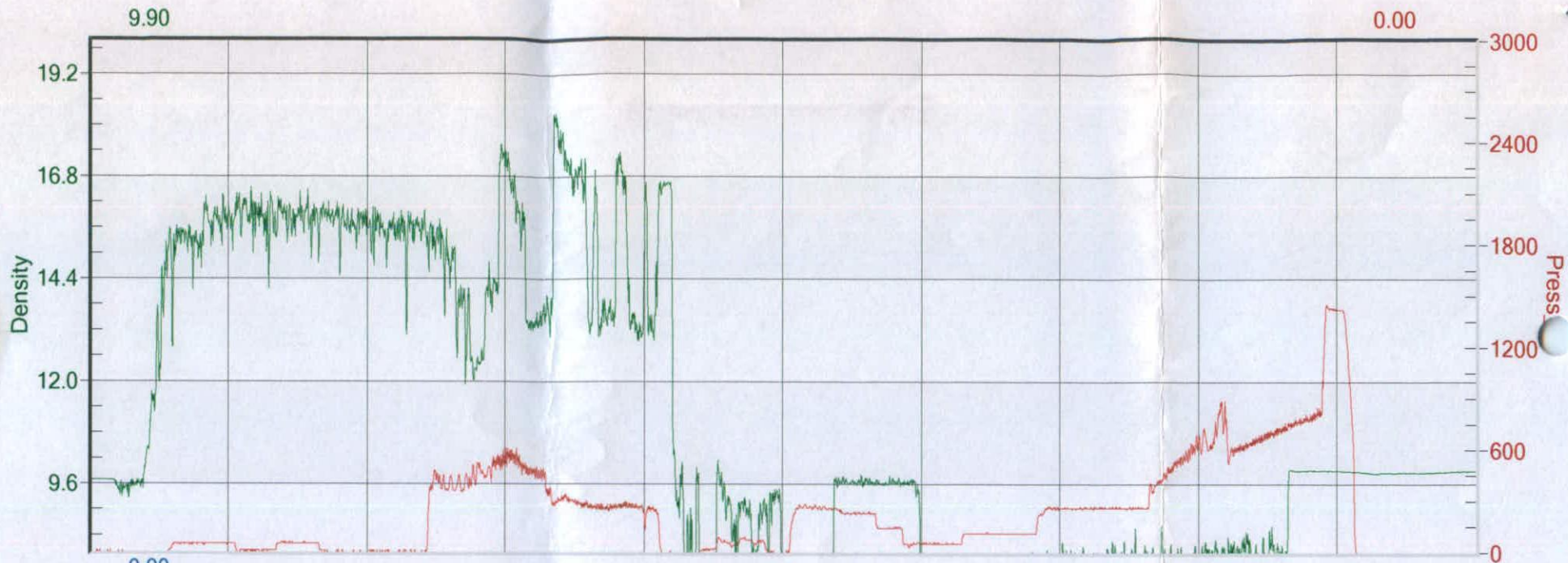
Pipe Data		Perforating Data		Cement Data
Casing size <i>5 1/2</i>	Tubing Size	Shots/Ft		Lead <i>200 x 59/30</i>
Depth <i>6576 + L3</i>	Depth	From	To	<i>Poz @ 14 #</i>
Volume <i>151.5</i>	Volume	From	To	<i>1.31 5.45</i>
Max Press <i>2500</i>	Max Press	From	To	Tail in <i>50 x 60/40</i>
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	<i>Poz @ 13.5 #</i>
Plug Depth	Packer Depth	From	To	<i>1.48 7.37</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7/11 22:10</i>					<i>on loc</i>
<i>22:45</i>					<i>start F.E.</i>
<i>23:30</i>					<i>Finish F.E., Call trucks</i>
<i>7/12 02:30</i>					<i>spot + R.U., Safety mtg</i>
<i>05:38</i>					<i>Plug R+M</i>
<i>05:52</i>	<i>410</i>		<i>12</i>	<i>4</i>	<i>H2O spacer</i>
<i>05:55</i>	<i>550</i>		<i>0</i>	<i>6</i>	<i>Start mixing @ 14 #</i>
<i>06:05</i>	<i>0</i>		<i>48</i>	<i>0</i>	<i>finished mixing, washup, Prep Plug</i>
<i>06:12</i>	<i>270</i>		<i>0</i>	<i>7</i>	<i>Start Disp</i>
<i>06:34</i>	<i>600 #</i>		<i>141</i>	<i>2.6</i>	<i>slow Rate</i>
<i>06:40</i>	<i>1400</i>		<i>151.6</i>	<i>0</i>	<i>Plug Down</i>
<i>06:47</i>	<i>0</i>				<i>Release Psi, Float Held</i>
					<i>Job Complete</i>

Service Units	<i>78939</i>	<i>3722337726</i>	<i>3811919564</i>
Driver Names	<i>C. Hinz</i>	<i>T. Marcellus</i>	<i>D. Beck</i>

*George Payne* Customer Representative     
 *Jerry Bennett* Station Manager     
 *Chad Hinz* Cementer

HERMAN LOEB  
HENRY TAYLOR 3-28



Job Started On: 07/12/2013 @ 5:32:21 AM





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
P.o Box 838  
Lawrenceville, IL 62439-0838  
ATTN: Jon Christensen

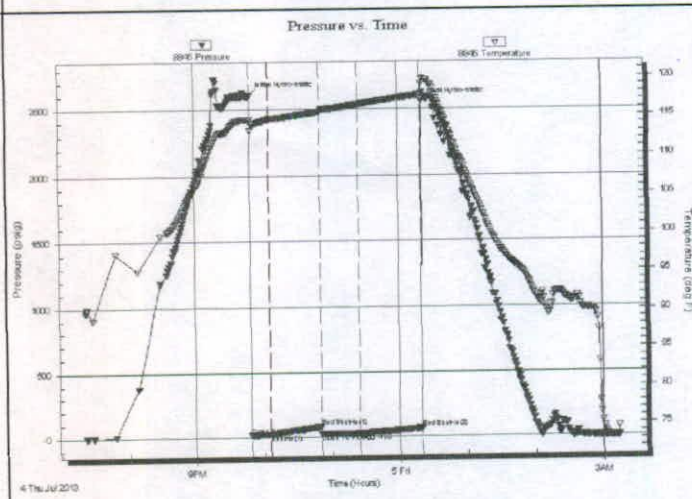
**28-34s-26w Meade Co.**  
**Henry Taylor #3-28**  
Job Ticket: 53313      DST#: 1  
Test Start: 2013.07.04 @ 19:22:00

## GENERAL INFORMATION:

Formation: **Marmaton & Novinger**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:48:45  
 Time Test Ended: 03:15:00  
 Interval: **5481.00 ft (KB) To 5535.00 ft (KB) (TVD)**  
 Total Depth: 5535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2368.00 ft (KB)  
 2357.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8845**      Outside  
 Press@RunDepth: 26.11 psig @ 5482.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.07.04      End Date: 2013.07.05      Last Calib.: 2013.07.05  
 Start Time: 19:22:00      End Time: 03:15:00      Time On Btm: 2013.07.04 @ 21:48:30  
 Time Off Btm: 2013.07.05 @ 00:20:45

TEST COMMENT: IF: Weak Surface Blow.  
 IS: No Return.  
 FF: No Blow.  
 FS: No Return.



## PRESSURE SUMMARY

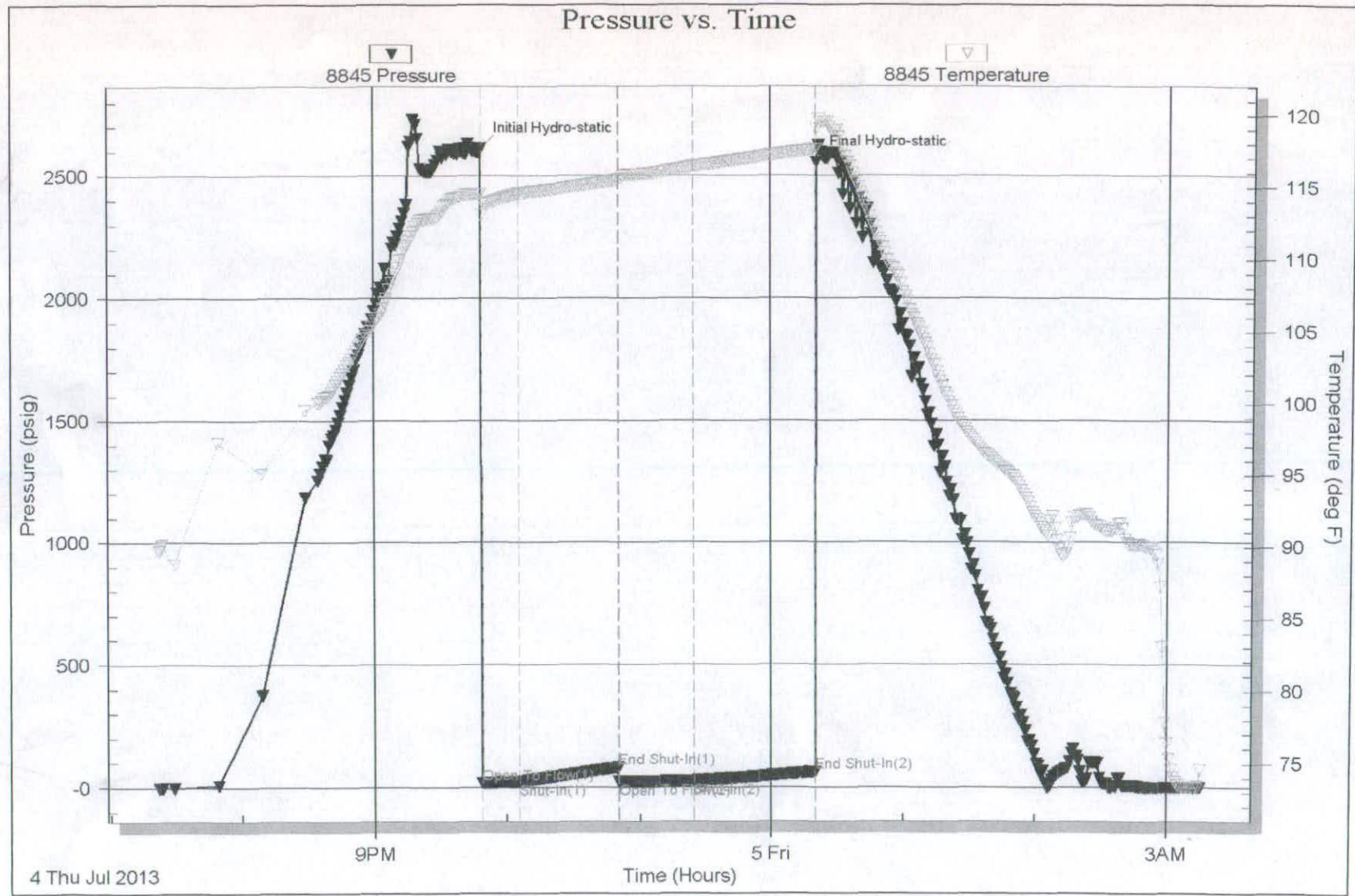
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2611.08	114.55	Initial Hydro-static
1	17.08	113.05	Open To Flow (1)
18	22.32	114.57	Shut-In(1)
62	80.19	115.50	End Shut-In(1)
63	21.98	115.49	Open To Flow (2)
97	26.11	116.43	Shut-In(2)
152	62.80	117.65	End Shut-In(2)
153	2554.89	119.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

## Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53313

Well Name & No. Henry Taylor #3-28 Test No. 1 Date 7/4/13  
 Company Herman L. Loeb, LLC. Elevation 2368 KB 2357 GL  
 Address Po Box 838 Lawrenceville, IL 62439-0838  
 Co. Rep / Geo. Jon Christensen Rig Sterling #2  
 Location: Sec. 28 Twp. 34S Rge. 26W Co. Meade State KS

Interval Tested 5481 - 5535 Zone Tested Marathon & Navigator  
 Anchor Length 54' Drill Pipe Run 5255 Mud Wt. 9.2  
 Top Packer Depth 5477 Drill Collars Run 218 Vis 51  
 Bottom Packer Depth 5481 Wt. Pipe Run 0 WL 8.8  
 Total Depth 5535 Chlorides 4600 ppm System LCM 2

Blow Description IF: Weak Surface Blow  
ISI: No Return  
FF: No Blow  
FSI: No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 118 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2611</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>17:10</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>19:22</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>21:49</u>
(D) Initial Shut-In <u>80</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:20</u>
(E) Second Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>3:15</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>294 R/T</u>	Comments <u>Projected time out 17:30. Actual time out 19:30. Loaded Tools</u>
(G) Final Shut-In <u>63</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2555</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer

Initial Open 15  Extra Packer  
 Initial Shut-In 45  Extra Recorder  
 Final Flow 30  Day Standby  
 Final Shut-In 60  Accessibility

Sub Total \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Herman L. Loeb, LLC.

28-34s-26w Meade Co.

P.o Box 838  
Lawrenceville, IL 62439-0838

Henry Taylor #3-28

Job Ticket: 53176 **DST#: 2**

ATTN: Jon Christensen

Test Start: 2013.07.07 @ 03:32:28

## GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:39:43

Time Test Ended: 12:38:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **5971.00 ft (KB) To 6038.00 ft (KB) (TVD)**

Total Depth: 6038.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2368.00 ft (KB)

2357.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8373**

Inside

Press@RunDepth: 244.89 psig @ 5972.00 ft (KB)

Start Date: 2013.07.07

End Date:

2013.07.07

Start Time: 03:32:28

End Time:

12:38:43

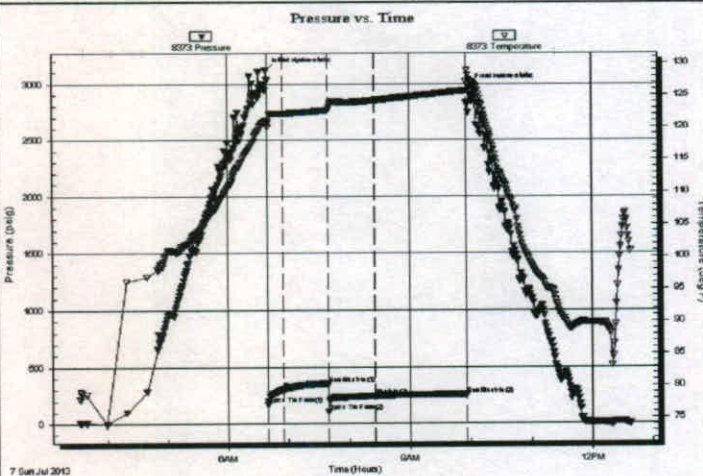
Capacity: 8000.00 psig

Last Calib.: 2013.07.07

Time On Btm: 2013.07.07 @ 06:37:58

Time Off Btm: 2013.07.07 @ 09:58:43

TEST COMMENT: IF: 1/4 blow died in surface.  
IS: No return.  
FF: BOB in 2 min blow died in 22 min.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3119.83	121.03	Initial Hydro-static
2	173.59	120.01	Open To Flow (1)
17	305.59	122.19	Shut-In(1)
61	353.65	122.68	End Shut-In(1)
62	104.31	122.62	Open To Flow (2)
107	244.89	124.21	Shut-In(2)
198	257.34	125.73	End Shut-In(2)
201	2972.46	127.43	Final Hydro-static

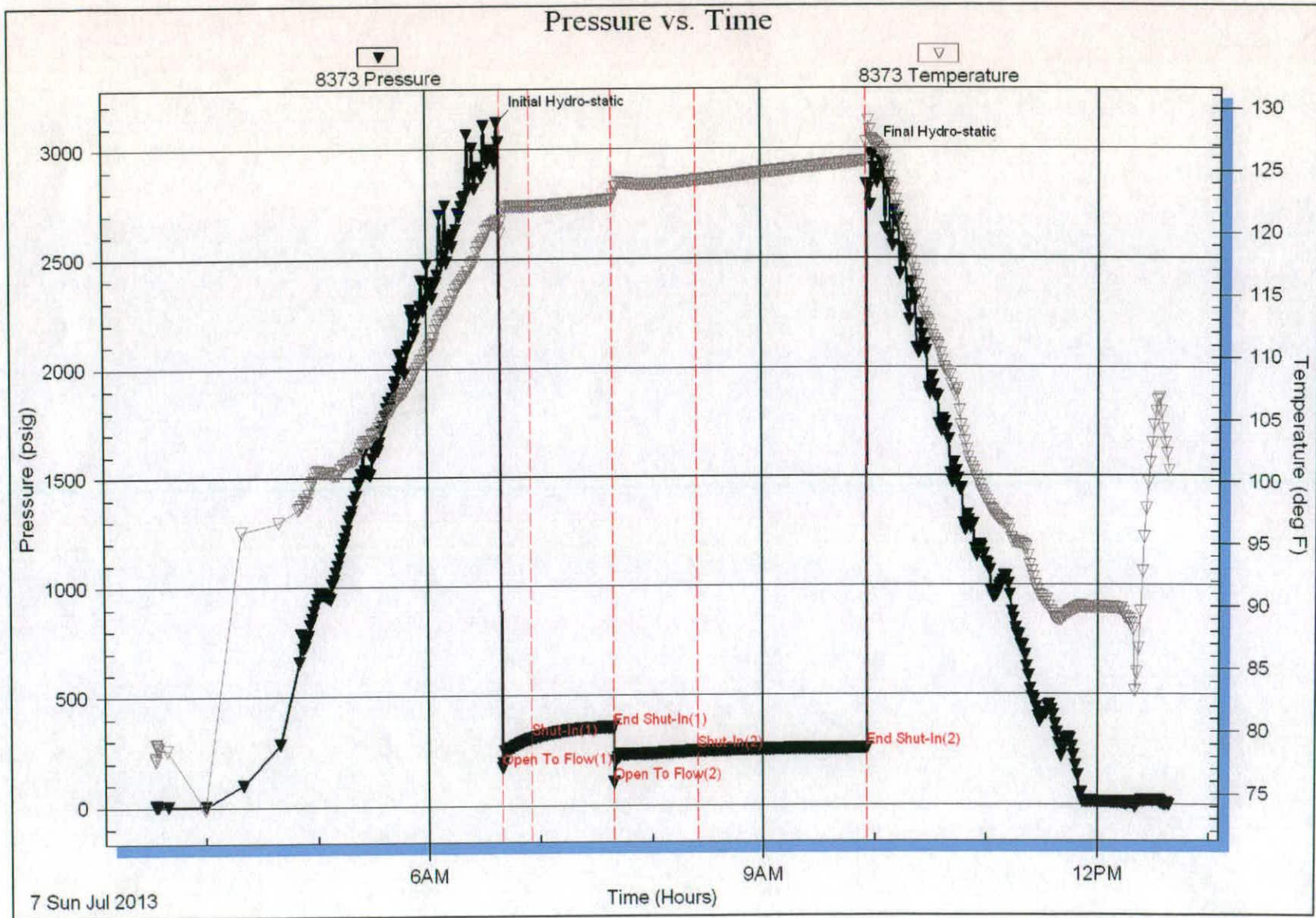
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%m	0.15
0.00	310 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53176

Well Name & No. Henry Taylor 3-28 Test No. 2 Date 7-7-13  
 Company Hermann L. Loeb LLC Elevation 2368 KB 2357 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jon Christensen Rig sterling #2  
 Location: Sec. 28 Twp. 345 Rge. 26W Co. Meade State KS

Interval Tested 5971 6038 Zone Tested Morrow Sand  
 Anchor Length 67 Drill Pipe Run 5733 Mud Wt. 8.9  
 Top Packer Depth 5967 Drill Collars Run 218 Vis 52  
 Bottom Packer Depth 5971 Wt. Pipe Run \_\_\_\_\_ WL 10.8  
 Total Depth 6038 Chlorides 6400 ppm System LCM 3 1/2

Blow Description IF: 1/4 blow died to surface.  
IS: No return.  
FF: BOB in 2 min blow died in 22 min.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>310 GFP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 125 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 3119  Test \_\_\_\_\_ T-On Location 2:50  
 (B) First Initial Flow 173  Jars \_\_\_\_\_ T-Started 3:32  
 (C) First Final Flow 305  Safety Joint \_\_\_\_\_ T-Open 6:40  
 (D) Initial Shut-In 353  Circ Sub N/C T-Pulled 9:55  
 (E) Second Initial Flow 104  Hourly Standby \_\_\_\_\_ T-Out 12:40  
 (F) Second Final Flow 244  Mileage 300- Comments Tool P/aged  
 (G) Final Shut-In 257  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2972  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Final Flow 45  Day Standby \_\_\_\_\_ Total \_\_\_\_\_  
 Final Shut-In 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Herman L. Loeb, LLC.  
P.o Box 838  
Lawrenceville, IL 62439-0838  
ATTN: Jon Christensen

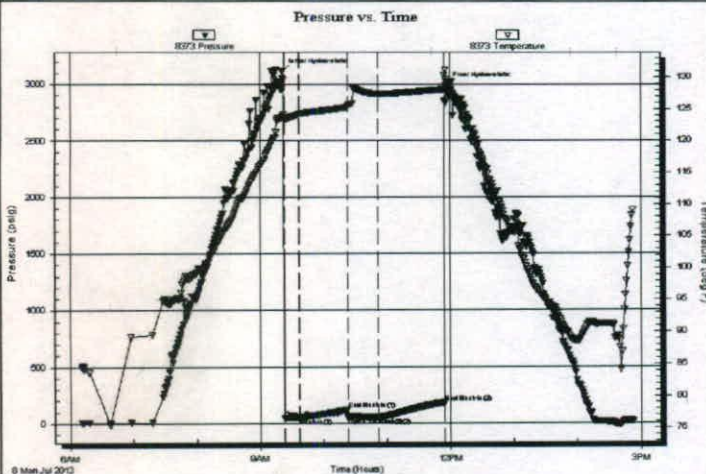
**28-34s-26w Meade Co.**  
**Henry Taylor #3-28**  
Job Ticket: 53177      **DST#: 3**  
Test Start: 2013.07.08 @ 06:10:53

### GENERAL INFORMATION:

Formation: **Miss Chester**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 09:23:08  
Time Test Ended: 14:52:38  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 60  
Interval: **6085.00 ft (KB) To 6142.00 ft (KB) (TVD)**  
Total Depth: 6142.00 ft (KB) (TVD)  
Reference Elevations: 2368.00 ft (KB)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
KB to GR/CF: 11.00 ft  
2357.00 ft (CF)

**Serial #: 8373      Inside**  
Press@RunDepth: 53.31 psig @ 6086.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.07.08      End Date: 2013.07.08      Last Calib.: 2013.07.08  
Start Time: 06:10:53      End Time: 14:52:38      Time On Btm: 2013.07.08 @ 09:21:08  
Time Off Btm: 2013.07.08 @ 11:55:53

**TEST COMMENT:** IF: 1/4 blow died to surface.  
IS: No return.  
FF: Surface blow built to 1/4 flushed tool. 3/4 blow died to surface.  
FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3119.19	123.61	Initial Hydro-static
2	46.62	123.20	Open To Flow (1)
17	52.46	124.18	Shut-In(1)
62	121.87	125.22	End Shut-In(1)
63	50.25	125.52	Open To Flow (2)
91	53.31	127.35	Shut-In(2)
153	184.04	128.06	End Shut-In(2)
155	2993.60	129.75	Final Hydro-static

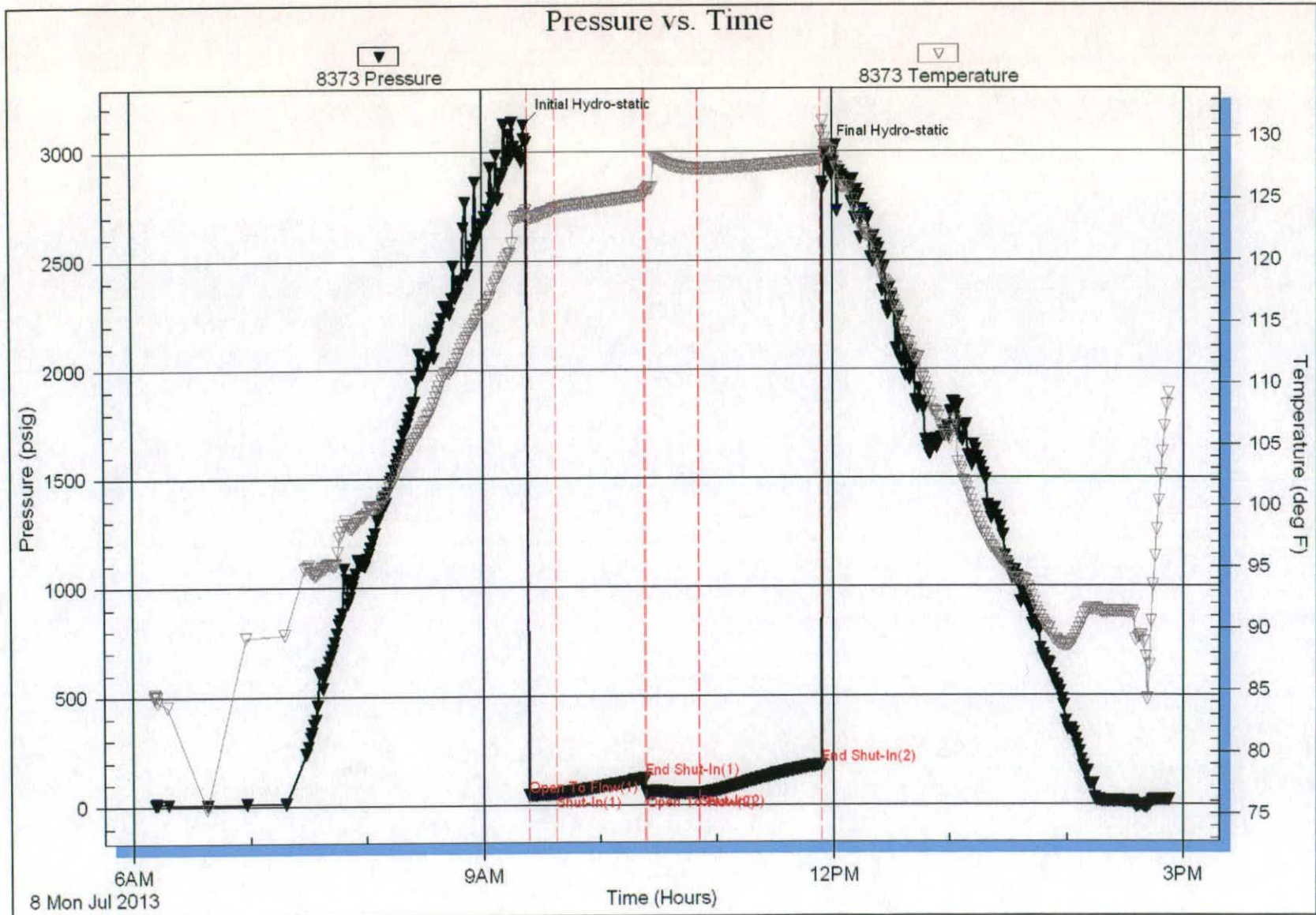
### Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.15

\* Recovery from multiple tests

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53177

Well Name & No. Henry Taylor 3-28 Test No. 3 Date 7-8-13  
 Company Herman L Loeb LLC Elevation 2368 KB 2357 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Jon Christensen Rig sterling #2  
 Location: Sec. 28 Twp. 345 Rge. 26W Co. Meade State K5

Interval Tested 6085 6142 Zone Tested Miss Chester  
 Anchor Length \_\_\_\_\_ 57 Drill Pipe Run 5860 Mud Wt. 9.1  
 Top Packer Depth \_\_\_\_\_ 6080 Drill Collars Run 218 Vis 56  
 Bottom Packer Depth \_\_\_\_\_ 6085 Wt. Pipe Run \_\_\_\_\_ WL 10.4  
 Total Depth \_\_\_\_\_ 6142 Chlorides 5500 ppm System LCM 2  
 Blow Description IF: 1/4 blow died to surface.  
IS: No return.

FF: surface blow built to 1/4 flushed tool 3/4 blow died to surface.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 128 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 3119  Test \_\_\_\_\_ T-On Location 4:35  
 (B) First Initial Flow 46  Jars \_\_\_\_\_ T-Started 6:10  
 (C) First Final Flow 52  Safety Joint \_\_\_\_\_ T-Open 9:22  
 (D) Initial Shut-In 121  Circ Sub N/L T-Pulled 11:22  
 (E) Second Initial Flow 50  Hourly Standby \_\_\_\_\_ T-Out 14:55  
 (F) Second Final Flow 53  Mileage 300 - Comments \_\_\_\_\_  
 (G) Final Shut-In 184  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2993  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total \_\_\_\_\_  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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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/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 27, 2013

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

Re: ACO1  
API 15-119-21342-00-00  
HENRY TAYLOR 3-28  
NW/4 Sec.28-34S-26W  
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jesse Middagh