



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1075593

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</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	Kroutwurst 19
Doc ID	1075593

Tops

Name	Top	Datum
Anhydrite	773	+1180
Base Anhydrite	799	+1154
Topeka	2713	-760
Queen Hill Shale	2922	-969
Heebner Shale	3008	-1055
Toronto	3026	-1073
Douglas Shale	3038	-1085
Brown Lmst.	3109	-1156
Lansing 'A'	3123	-1170
Lansing / KC 'H'	3266	-1313
Base Kansas City	3385	-1432
Arbuckle	3402	-1449

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: #19 Kroutwurst  
Location: 1692' FSL & 1119' FEL, Sec. 34-T16S-R11W, Barton Co., KS.  
Licence Number: 15-009-25630-0000 Region: Kraft-Prusa Field  
Spud Date: 11/3/2011 Drilling Completed: 11/9/2011  
Surface Coordinates: 1692' FSL & 1119' FEL, Sec. 34-T16S-R11W

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 1942' K.B. Elevation (ft): 1953'  
Logged Interval (ft): 2600' To: 3475' Total Depth (ft): 3475'  
Formation: Arbuckle at TD.  
Type of Drilling Fluid: Freshwater/Gel to 2600'; Chemical Gel 2600' to 3475'  
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(Arbuckle) 3379' - 3414'(Corrected Depths to Log) Test Times 30"-60"-30"-60" IFP No Blow at all - Flush tool - hammer union loose, reset tool - Weak Blow building to 3.25", FFP Weak Blow built to 3.25", no blowback on SI's; REC: 94' Gas in Pipe, 33' CGO(10%G, 90%O) 41 Deg. API, 31' HOCM(40%O, 60%M), 63' OCM(25%O, 75%M), no Water; IFP 32-54#, ISIP 1105#, FFP 57-77#, FSIP 1103#, IHP 1664#, FHP 1609#, BHT 102 Deg. F.

## Comments

11/2/11 MIRU Sterling Drilling Rig #1; 11/3/11 Finish Rig up and Spud at 2:00 PM.; 11/4/11 TD. 443' - WOC; 11/5/11 Drilling at 1200'; 11/6/11 Drilling at 2354'; 11/7/11 Drilling at 3000'; 11/8/11 Drilling at 3380'; 11/9/11 Drilling at 3440' - Reach TD. 3475' at 8:30 AM.; 11/10/11 RTD. 3475' - LTD. 3474' Cementing 5 1/2" Production Casing - PD. 7:30 AM.

Set new 8 5/8" (24#) Surface Casing at 442' w/ 300 sx. Cement Did Circulate(Basic Energy Services). PD. at 5:15 AM. 11/4/11.

Set new 5 1/2"(15.5#) Production Casing at 3473' w/120 sx. cement(Basic Energy Services). Port Collar at 1001'. PD. 7:30 AM. 11/10/11.

Surveys: 0.5 Deg. at 443'(Surface Casing); 0.5 Deg. at 3415'(DST #1).


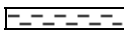

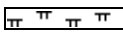
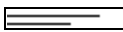
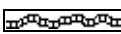



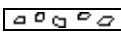


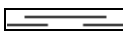
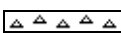


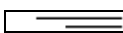

After evaluation of the Superior Logs, DST data, and shows of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" Production casing for completion in the Arbuckle. (See notes for additional recommended perforation zones prior to abandonment of the well).

NOTE: Prior to Abandonment of the #19 Kroutwurst, the Lansing 'A' zone should be perforated and tested from 3122' - 3124'. In addition, the Toronto should be perforated and tested from 3028' - 3032'(Superior Well Service Log Depths).








































































This log was shifted upward by 1' to 2' for correlation purposes with the Superior Well Service openhole logs.

LOG TOPS: Anhydrite 773(+1180), Base Anhydrite 799(+1154), Topeka 2713(-760), Queen Hill Shale 2922(-969), Heebner Shale 3008(-1055), Toronto 3026(-1073), Douglas Shale 3038(-1085), Brown Lmst. 3109(-1156), Lansing 'A' 3123(-1170), Lans/KC. 'H' 3266(-1313), Base Kansas City 3385(-1432), Arbuckle 3402(-1449).

### ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

### ACCESSORIES

<b>MINERAL</b>		<b>FOSSIL</b>	
 Anhy	 Gyp	 Algae	 Ostra
 Arggrn	 Hvymin	 Amph	 Pelec
 Arg	 Kaol	 Belm	 Pellet
 Bent	 Marl	 Bioclst	 Pisolite
 Bit	 Minxl	 Brach	 Plant
 Brecfrag	 Nodule	 Bryozoa	 Strom
 Calc	 Phos	 Cephal	<b>STRINGER</b>
 Carb	 Pyr	 Coral	 Anhy
 Chtdk	 Salt	 Crin	 Arg
 Chtlt	 Sandy	 Echin	 Bent
 Dol	 Silt	 Fish	 Coal
 Feldspar	 Sil	 Foram	 Dol
 Ferrpel	 Sulphur	 Fossil	 Gyp
 Ferr	 Tuff	 Gastro	 Ls
 Glau		 Oolite	 Mrst
			<b>TEXTURE</b>
			 Sltstrg
			 Ssstrg
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest

**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

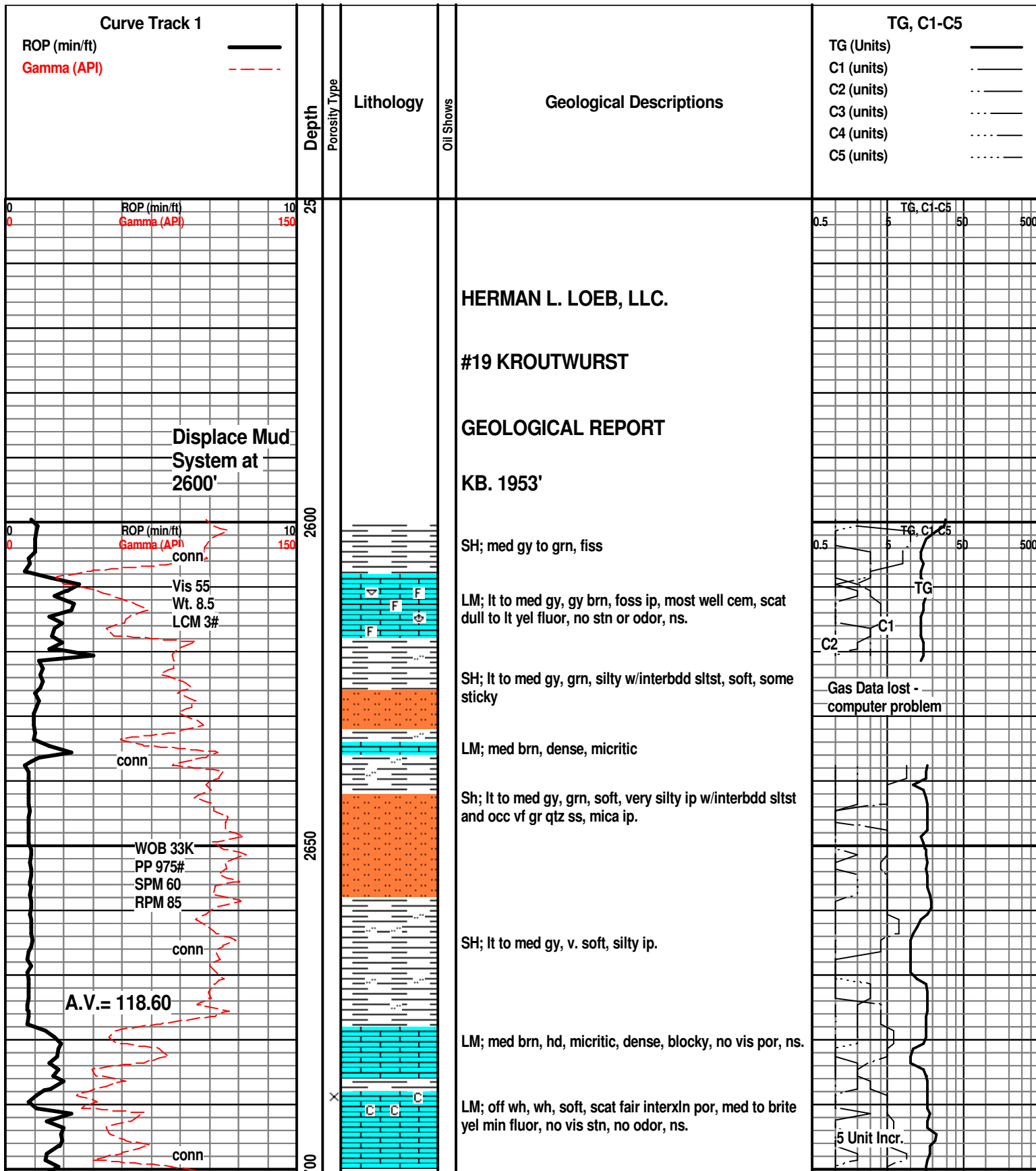
- ROUNDING**  
 [R] Rounded  
 [r] Subrnd  
 [a] Subang  
 [A] Angular

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

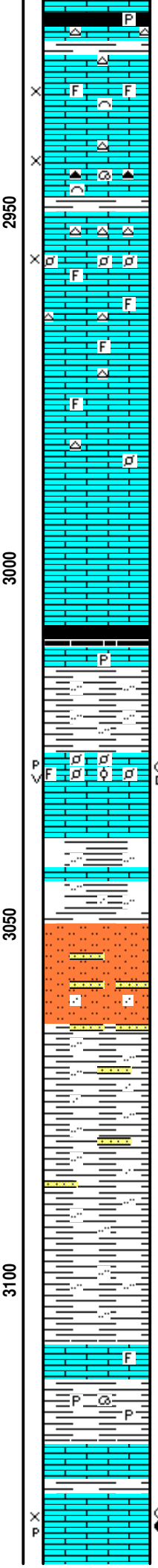
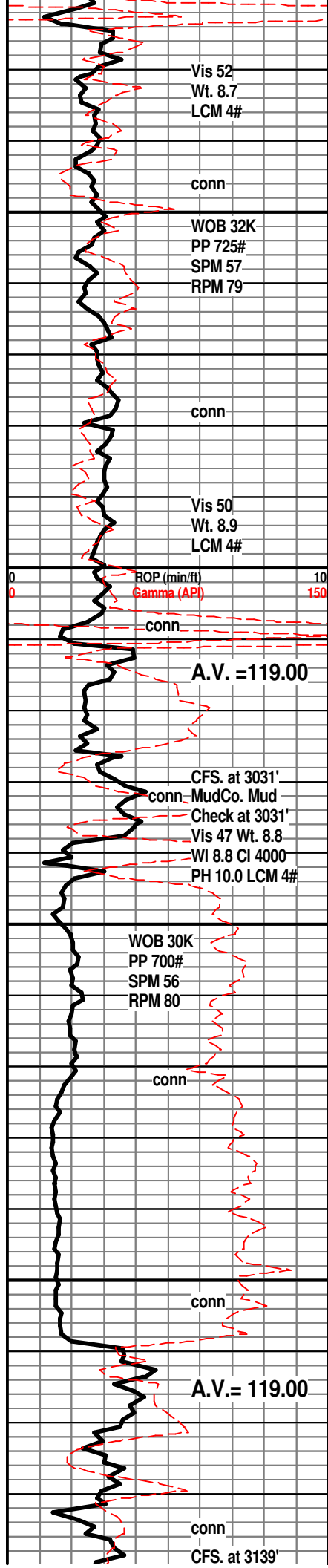
- EVENT**  
 [Rft] Rft  
 [S] Sidewall

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

- OIL SHOW**  
 [E] Even







**QUEEN HILL SHALE 2922(-969)**  
 SH; blk, platy, carb ip, rare pyr  
 LM; lt brn, v. foss, fair to gd interpart por, minor soft chalky mtx, dull to lt yel min fluor, no stn or odor, ns.

LM; tan to lt brn, off wh, fxln, scat foss mat, interbdd dk gy to blk/smoky cht, poor interpart por, scat pyr, no fluor, ns.

LM; tan to lt brn, foss - finely pelletal ip, poor interpart por, no fluor, cherty, ns.

LM; tan to cream, off wh, fxln, scat well cem foss mat, no vis por, occ gy to off wh cht, no fluor, ns.

LM; tan to cream, buff, fxln, rare poor interxln por, most dense, occ soft chalky mtx, no fluor, ns.

**HEEBNER SHALE 3008(-1055)**  
 SH; blk, carb ip, platy, trc gas  
 LM; med brn, hd, micritic, trc pyr  
 SH; lt gy, grn, silty ip, v. soft - sticky

**TORONTO 3026(-1073)**  
 LM; tan to buff, foss, occ finely pelletal, scat fair p-p and occ vug por, spotted med brn live oil stn, faint odor, med yel fluor, fair cut, occ pcs. bleeding oil/dead oil residue, most looks tite

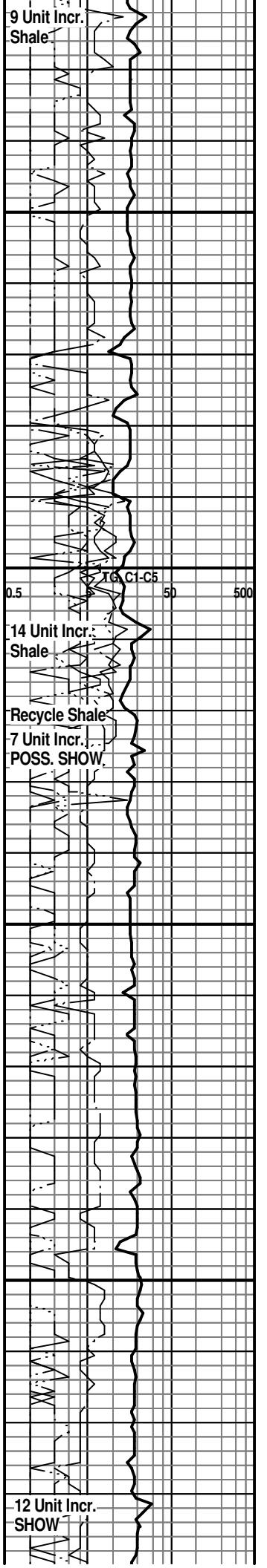
**DOUGLAS SHALE 3038(-1085)**  
 SH; varic, rust red, red/brn, maroon, grn, silty w/interbdd sltst.  
 SLTST; lt gy, firm, mica, rare vf gr qtz ss strngs interbdd, no clean ss dev.

SH; lt gy, silty to sandy, mica ip, platy, interbdd vf to rarely f gr qtz ss, no stn or odor, mostly 'dirty' shaly ss dev.

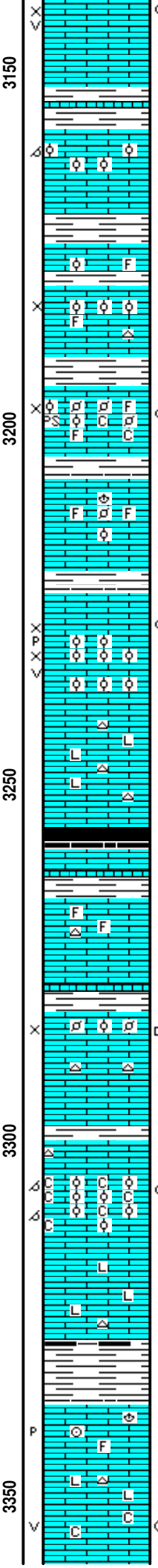
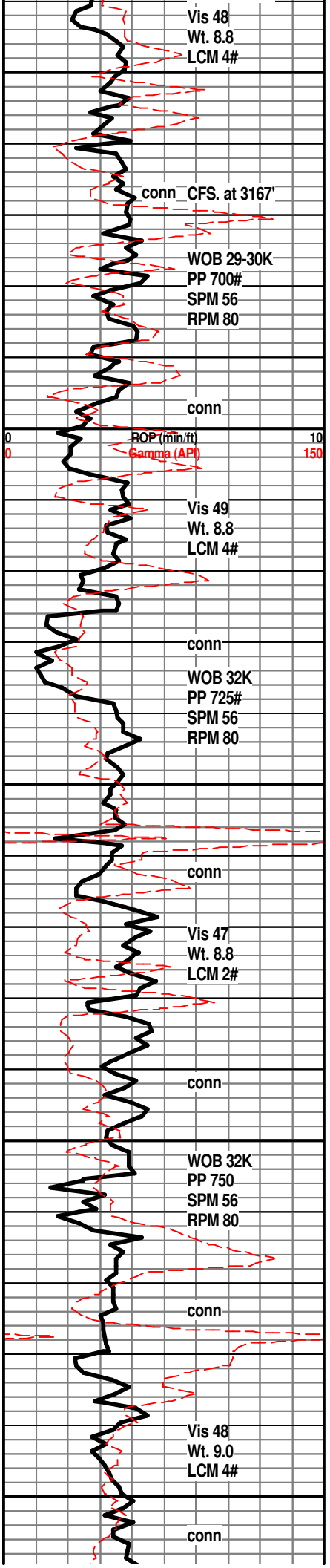
SH; lt gy, silty, much gumbo - very soft/sticky

**BROWN LMST. 3109(-1156)**  
 LM; med brn, dense, scat foss, hd

**LANSING 'A' 3123(-1170)**  
 LM; tan to lt brn, foss ip, argil ip, well cem, no vis por, no fluor, ns.  
 LM; off wh, buff, foss to med xln, some finely pelletal/partly oomoldic, fair interxln and p-p por, most w/spotted to rarely even lt brn stn, fair odor, trc gassy FC, med/brite yel fluor, fair cut







FC; med/brite yel fluor, fair cut

LM; lt gy, tan, fxln, minor soft chalky mtx, w/gy vuggy lmst, trc dk brn oil stn in vuggy lmst, lt yel fluor, no odor, some barren por.

SH; med gy, grn, platy, firm

LM; wh, off wh, tan, foss to oolitic, most well cem, trc poor oomoldic por, no fluor, no stn or odor, no gas kick, ns.

SH; med gy to grn, platy

LM; tan to lt brn, foss ip, well cem, no vis por, trc dk brn dead oil stn, no fluor

LM; lt to med brn, foss - oolitic, most well cem, poor interpart por, dull yel fluor, no vis stn, ns.

LM; off wh, tan, foss, abnt med/lrg pellets and ooids, soft chalky mtx ip, trc lt brn live oil stn, poor vis interpart por, lt yel fluor, no odor

LM; tan to lt brn, scat well cem foss, occ oolites/pellets, most dense, no vis por, dull yel fluor, ns.

**LANSING 'G' 3223(-1270)**

LM; tan to cream, buff, fxln, scat poor p-p and interxln por, spotted med brn oil stn, v. faint odor, lt to rarely med yel, fluor, looks tite

LM; tan to buff, lt brn, oolitic to oolitic, fair moldic por, some rextalized, rare vug por, no vis stn, v. spotted med yel fluor, quest. odor, no cut

LM; med brn, hd, micritic to litho, scat gy to brn cht, tite

SH; blk, platy, carb ip.

SH; med gy to gy grn, firm

**LANS/KC 'H' 3266(-1313)**

LM; off wh, tan, wh, hd, rarely foss, most micritic, hd, no vis por, no stn, ns.

LM; off wh, wh, foss - finely pelletal/oolitic, fair to poor interpart por, chalky soft mtx, few pcs. w/dk brn hvy oil stn/some gils, no live shows

SH; med gy, fiss

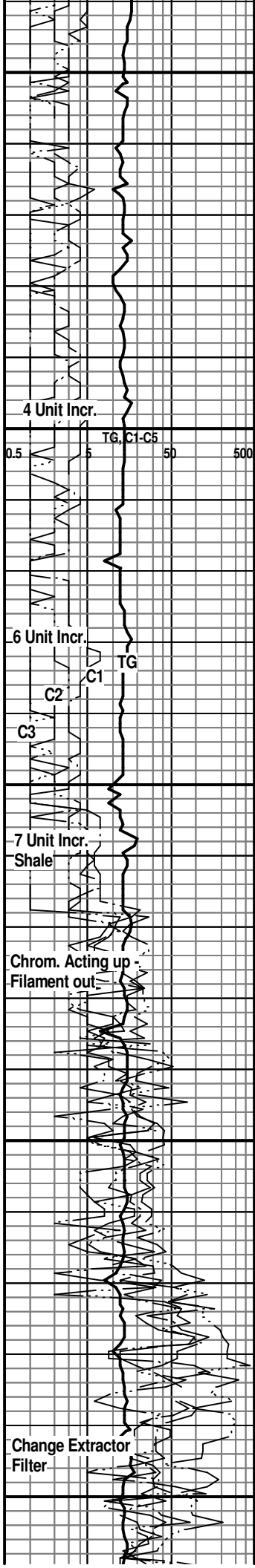
LM; wh, off wh, oolitic, small to med size molds, fair oomoldic por, much soft chalky mtx, rare spotted lt brn live oil stn - 98% barren of show, strong sulfur odor, v. dull to no fluor, most w/no cut

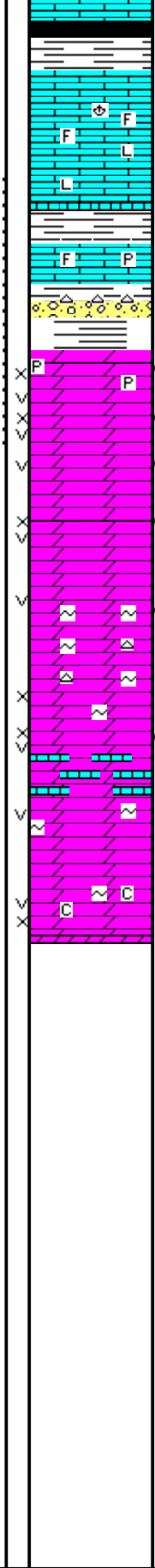
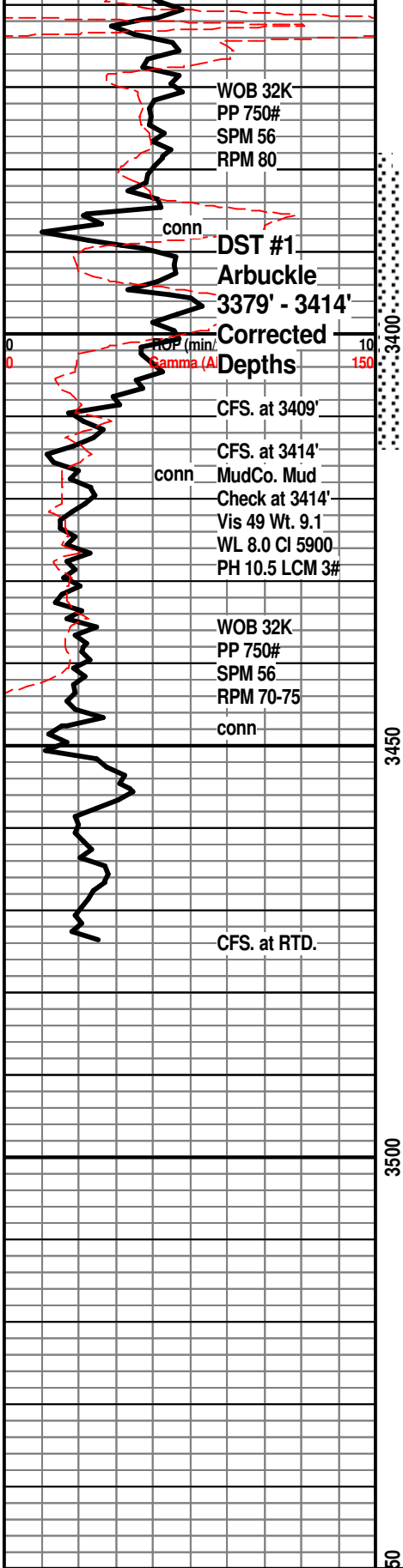
LM; lt to med brn, bcm dk brn, most dense, micritic to litho, hd, rare gy cht

SH; blk, dk gy, platy, smooth

LM; lt brn, tan, fxln, scat foss mat, most well cem, poor p-p por, trc med/dk brn stn, rare cse spar calc xtals, no fluor, no odor, looks tite

LM; lt brn, off wh, fxln, scat spar calc xtals, small vug por, fair oil odor, med yel fluor, fair cut, some chalky lmst w/brite fluor





SH; dk gy, rare blk, fiss

LM; tan to lt brn, rarely foss, most dense, some litho, no vis por, no fluor, no stn or odor, ns.

**BASE KANSAS CITY 3385(-1432)**  
 SH; rust red, sandy, v. soft, silty ip.  
 LM; med brn, hd, blocky, foss ip, occ pyr, tite  
 CHT; varic, wh, org, fresh, trc dead oil/gils

**ARBUCKLE 3402(-1449)**  
 DOL; tan to lt gy, finely rhombic, poor interxln with rare vug por, occ pyr, rare spotted stn  
 DOL; off wh, tan, med rhombic, well dev. interxln w/vug por, GSFO, much even lt brn to golden brn stn, v. gd odor, med to brite yel fluor, gd cut

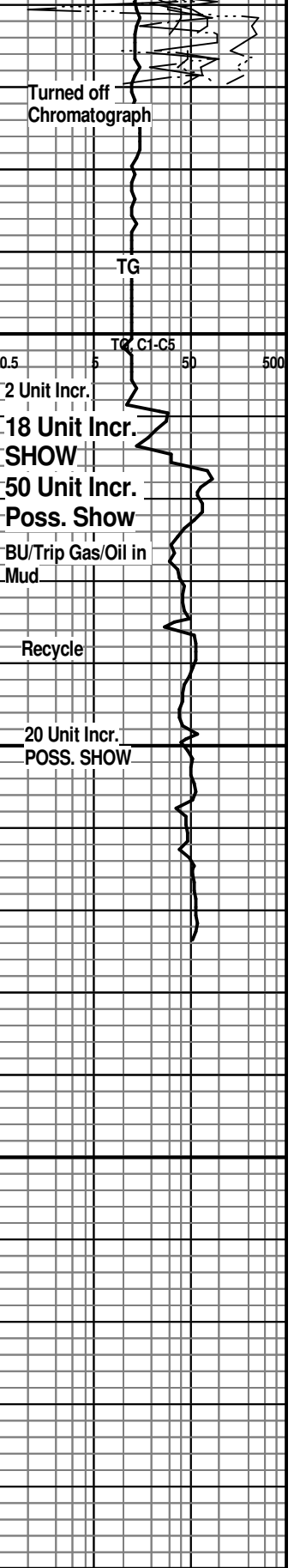
**DST #1: Arbuckle 3379' - 3414'**  
 DOL; tan/lt brn, oil stained, v. gd odor, GSFO, most w/well dev. vug and interxln por, brite yel fluor, gd streaming cut  
 DOL; wh, off wh, med rhombic, spotted lt brn oil stn, SSFO, decr. shows, v. strong odor - poss sulfur, lt to med yel fluor, fair cut, interbdd grn clay/glau incl, minor off wh/tan cht  
 DOL; wh, tan, med rhombic, lt brn spotted oil stn, SSFO, well dev. vug and interxln por, med yel fluor, strong odor - poss. sulfur, fair cut  
 DOL; wh, lmy, well cem, scat wh cht, little/no vis por, occ glau, no stn, looks tite, trc grn to turquoise grn shale  
 DOL; wh to lt gy, med to csely rhombic, gd interxln w/vug por, soft chalky mtx ip, trc glau, lt yel min fluor only, barren, no stn or odor, ns.

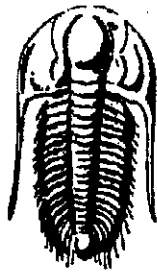
RTD. 3475' at 8:30 AM. 11/9/11

LTD. 3474'

Superior Well Services DIL, NEU/DEN  
 w/PE, Microlog

**NOTE: This log was shifted upward by 1' to 2' for correlation purposes with the Superior LOGS.**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Herman L Loeb, LLC**

PO Box 838  
Lawrenceville IL 62439

ATTN: George Payne

**Kroutwurst #19**

**34-16s-11w Barton, KS**

Start Date: 2011.11.08 @ 16:41:31

End Date: 2011.11.09 @ 02:33:31

Job Ticket #: 44872                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.16 @ 11:26:14

Herman L Loeb, LLC      34-16s-11w Barton, KS      Kroutwurst #19      DST # 1      Arbuckle      2011.11.08





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

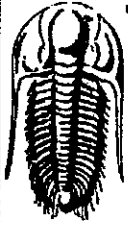
Herman L Loeb, LLC  
PO Box 838  
Lawrenceville IL 62439  
ATTN: George Payne

**34-16s-11w Barton, KS**  
**Kroutwurst #19**  
Job Ticket: 44872      **DST#: 1**  
Test Start: 2011.11.08 @ 16:41:31

**Tool Information**

Drill Pipe:	Length: 3160.00 ft	Diameter: 3.80 inches	Volume: 44.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 45.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3380.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3358.00	
Shut In Tool	5.00			3363.00	
Hydraulic tool	5.00			3368.00	
Safety Joint	3.00			3371.00	
Packer	4.00			3375.00	23.00      Bottom Of Top Packer
Packer	5.00			3380.00	
Stubb	1.00			3381.00	
Perforations	2.00			3383.00	
Recorder	0.00	8321	Inside	3383.00	
Recorder	0.00	8737	Outside	3383.00	
Perforations	29.00			3412.00	
Bullnose	3.00			3415.00	35.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Herrman L. Loeb, LLC  
PO Box 838  
Lawrenceville IL 62439  
ATTN: George Payne

**34-16s-11w Barton, KS**  
**Kroutwurst #19**  
Job Ticket: 44872      DST#: 1  
Test Start: 2011.11.08 @ 16:41:31

**Mud and Cushion Information**

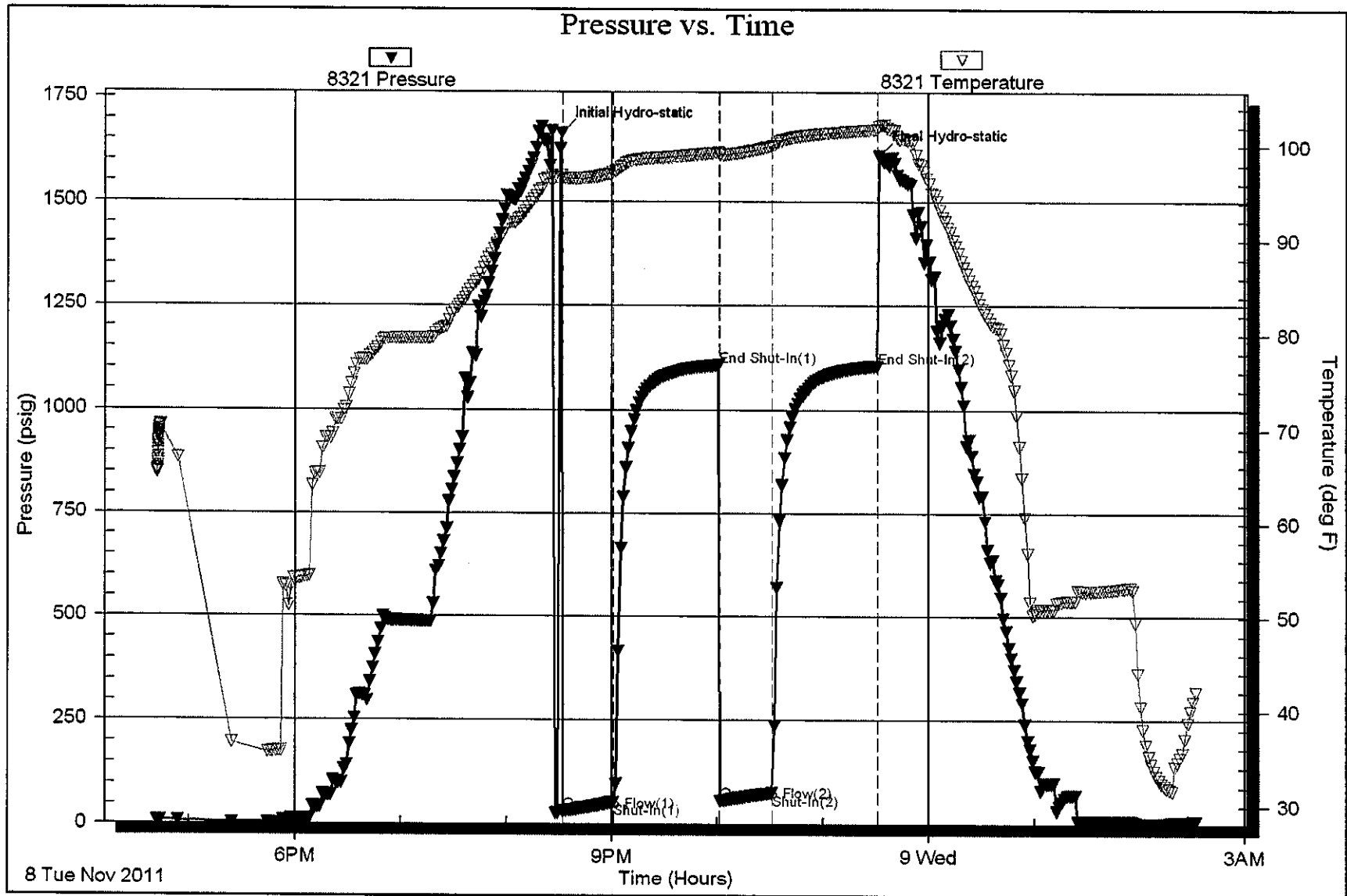
Mud Type: Gel Chem	Cushion Type:	Oil API:	41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5900.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
63.00	OCM 25%O75%M	0.310
31.00	HOCM 40%O60%M	0.152
33.00	Gassy Oil 10%G90%O	0.162
0.00	94-GIP	0.000

Total Length: 127.00 ft      Total Volume: 0.624 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





**BASIC**  
ENERGY SERVICES

6076  
6096  
760  
1567

PAGE 1 of 1	CUST NO 1001845	INVOICE DATE 11/11/2011
INVOICE NUMBER 1718 - 90750987		

Pratt (620) 672-1201

J LEASE NAME Kroutwurst 19  
O LOCATION  
B COUNTY Barton  
S STATE KS  
I JOB DESCRIPTION Cement-New Well Casing/Pi  
T JOB CONTACT  
E

B HERMAN L. LOEB  
I PO Box: 838  
L LAWRENCEVILLE  
L IL US 62439  
T  
O ATTN: ED LOEB

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40394605	19905		Net. - 30-days	12/11/2011

*For Service Dates: 11/04/2011 to 11/04/2011*

0040394605

171805260A Cement-New Well Casing/Pi 11/04/2011

8 5/8" Surface

60/40 POZ

Cello-flake

Calcium Chloride

Wooden Cement Plug 8 5/8"

Unit Mileage Charge-Pickups, Vans & Cars

Heavy Equipment Mileage

Proppant and Bulk Delivery Charges

Depth Charge; 0-500'

Blending & Mixing Service Charge

Plug Container Utilization Charge

Supervisor

QTY	U of M	UNIT PRICE	INVOICE AMOUNT
300.00	EA	9.48	2,843.77
75.00	EA	2.92	219.21
774.00	EA	0.83	641.98
1.00	EA	126.39	126.39
75.00	HR	3.36	251.79
150.00	MI	5.53	829.43
968.00	MI	1.26	1,223.45
1.00	HR	789.93	789.93
300.00	MI	1.11	331.77
1.00	EA	197.48	197.48
1.00	HR	138.24	138.24

**PAID**  
#25056  
11-17-11

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,593.44
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	270.46
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	7,863.90
DALLAS, TX 75284-1903	MIDLAND, TX 79702		





Customer <b>Herman L. Loeb LLC</b>	Lease No.	Date <b>10-4-11</b>
Lease <b>Kroyturst</b>	Well # <b>19</b>	
Field Order # <b>05260A</b>	Station <b>Pratt Ks</b>	Casing <b>8 5/8"</b>
Type Job <b>8 5/8" Surface</b>	Formation <b>CNW</b>	Depth <b>442</b>
		County <b>Barton</b>
		State <b>Ks</b>
		Legal Description <b>34-16-11</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8"</b>	Tubing Size	Shots/Ft		Acid <b>300SKS 60/40 P02</b>	RATE	PRESS	ISIP	<b>1/4" CF</b>
Depth <b>442'</b>	Depth	From	To	Pre Pack <b>14.8#</b>	Max <b>9AL</b>			5 Min.
Volume <b>27 Bbl</b>	Volume	From	To	Pad	Min			10 Min.
Max Press # <b>500</b>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <b>PK</b>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <b>722</b>	Packer Depth	From	To	Flush <b>Disp H<sub>2</sub>O</b>	Gas Volume			Total Load

Customer Representative <b>Bill TP</b>	Station Manager <b>Scotty</b>	Treater <b>Allen</b>
---	----------------------------------	-------------------------

Service Units	<b>28443</b>	<b>19903</b>	<b>19905</b>	<b>19832</b>	<b>2100</b>				
Driver Names	<b>Allen TJ</b>	<b>B. Larson</b>	<b>Steve</b>	<b>Young</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>12:26 AM</b>					<b>ST. #1</b> on loc. Discuss Safety, Setup Plan Job
					<b>CIR @ TD. 443.</b>
<b>2:10</b>					<b>START 8 5/8 casing 23'</b>
					<b>CASING @ 442' Hook up</b>
<b>4:30</b>					<b>&amp; CIR w/ Rig. "good CIR"</b>
<b>4:45</b>	<b>200#</b>			<b>5</b>	<b>START mix 300SKS 60/40 P02</b>
			<b>65</b>		<b>2% gel 3% CC, 1/4 C.F. @ 15'</b>
					<b>Finish mix</b>
					<b>Release wooden Plug 8 5/8"</b>
<b>5:05</b>				<b>4</b>	<b>START DISP.</b>
<b>5:15</b>	<b>400#</b>		<b>27</b>		<b>Plug down</b>
	<b>400#</b>				<b>SHUT IN @ well</b>
	<b>0</b>				<b>Release PSI BACK TO TALK.</b>
					<b>WASH UP Equip &amp; RACK UP.</b>
<b>6:00</b>					<b>Job complete.</b>
					<b>comt TO Pit!!</b>
					<b>THANKS Allen, TJ</b>
					<b>Steve!</b>

60760  
760  
1567



**BASIC**  
ENERGY SERVICES

PAGE 1 of 1	CUST NO 7589	INVOICE DATE 11/15/2011
INVOICE NUMBER 1718 - 90752558		

Pratt (620) 672-1201  
 B HERMAN L LOEB LLC  
 I 600 COUNTRY CLUB ROAD  
 L LAWRENCEVILLE  
 L IL US 62439  
 T  
 O ATTN: HAFELE

J LEASE NAME Kroutwurst 19  
 O LOCATION  
 B COUNTY Barton  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40395791	20920		Net - 30 days	12/15/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/10/2011 to 11/10/2011</i>				
0040395791				
171805044A Cement-New Well Casing/Pi 11/10/2011				
5 1/2" Longstring Port Collar				
50/50-POZ	120.00	EA	8.69	1,042.80
60/40 POZ	50.00	EA	9.48	474.00
KCL Potassium Chloride	273.00	EA	1.19	323.51
Cello-flake	30.00	EA	2.92	87.69
Cal-Set	505.00	EA	0.59	299.21
FLA:322	51.00	EA	5.93	302.18
Gilsonite	720.00	EA	0.53	381.10
CS-1L KCL Substitute	4.00	EA	27.65	110.60
Mud Flush	1,000.00	EA	0.68	679.40
5 1/2" Port Collar	1.00	EA	2,764.99	2,764.99
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	316.00	316.00
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	284.40	284.40
Turbolizer 5 1/2" (Blue)	12.00	EA	86.90	1,042.80
5 1/2" Basket (Blue)	2.00	EA	229.10	458.20
Cement Scratchers Cable Type 5 1/2"	6.00	EA	59.25	355.50
Unit Mileage Charge-Pickups, Vans & Cars	75.00	HR	3.36	251.81
Heavy Equipment Mileage	150.00	MI	5.53	829.50
Proppant and Bulk Delivery Charges	540.00	MI	1.26	682.56
Depth Charge; 3001-4000'	1.00	HR	1,706.40	1,706.40
Blending & Mixing Service Charge	170.00	MI	1.11	188.02
Plug Container Utilization Charge	1.00	EA	197.50	197.50
Supervisor	1.00	HR	138.25	138.25

**PAID**  
25358  
12-1-11

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,916.42
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	270.14
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	13,186.56
DALLAS, TX 75284-1903	MIDLAND, TX 79702		





Customer <b>Herman Luab</b>	Lease No.	Date <b>11-10-11</b>
Lease <b>Kouf Wurst</b>	Well # <b>19</b>	
Field Order # <b>3044</b>	Station <b>Pratt</b>	Casing <b>5 7/8</b>
	Depth <b>3474</b>	County <b>Bartlesville</b>
Type Job <b>CNW-5 1/2 L.S. P.C.</b>	Formation	Legal Description <b>34-16-11</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 7/8</b>	Tubing Size	Shots/Ft	<b>1205k</b>	Acid <b>50/50 POZ 135</b>	<b>2.10</b>	RATE	PRESS	ISIP
Depth <b>3474</b>	Depth	From	To <b>505k</b>	Pre Pad <b>60/40 RH/MH</b>	Max			5 Min.
Volume <b>82.7</b>	Volume	From	To	Pad	Min			10 Min.
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <b>3452</b>	Packer Depth	From	To	Flush <b>82.1</b>	Gas Volume			Total Load

Customer Representative <b>George Payne</b>	Station Manager <b>Dave Scott</b>	Treater <b>Steve Ornduff</b>
Service Units <b>27033 33208 20920 19831/19862</b>		
Driver Names <b>Wend Mitchell Hunter</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00 AM					On location - Safety Meeting
					Conductions 1-2-3-4-8-9-11-14-18-58-60-64
					Basinote 6-58 Seal. w/ 1 1/2 5' apart
					Port collar @ #59
					Casing on bottom Break Circ w/ R/S
7:00	300		5	5	H2O Ahead
7:01	300		24	5	mud flush
7:04	300		5	5	H2O spacer
7:05	250		29	5	Mix 1205k 50/50 POZ @ 14#/gal
					Shut down clean pump truck
					<del>Relax</del> Relax plus
7:14	0	0	0	6	Start H2O Displacement w 270 KCL
7:25	300		60	5	Lost pressure
7:27	600		72	4	Slow Rate
7:30 AM	1500		82	4	Plug Down - Hold
					Plug KH / MH w 505k, 60/40 POZ
					Job Complete
					Frank, Steve