



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1157573
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: _____



1157573

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	MUSSELMAN 5-34
Doc ID	1157573

Tops

Name	Top	Datum
Anhydrite	987	+1010
Topeka	3032	-1035
Heebner Shale	3391	-1394
Toronto	3406	-1409
Lansing 'A'	3507	-1510
Base Kansas City	3727	-1730
Conglomerate	3768	-1771
Simpson Sand	3820	-1823
Arbuckle	3873	-1876

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Musselman #5-34
Location: 335' FSL & 2185' FEL, Sec. 34-T21S-R16W, Pawnee Co., KS.
Licence Number: 15-145-21727-0000 Region: Larned Field
Spud Date: 7/18/2013 Drilling Completed: 7/25/2013
Surface Coordinates: 335' FSL & 2185' FEL, Sec. 34-T21S-R16W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 1984' K.B. Elevation (ft): 1997'
Logged Interval (ft): 3000' To: 3920' Total Depth (ft): 3920'
Formation: Arbuckle at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 2806'; Chemical Gel 2806' to 3920'

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(Lansing 'A' + 'B' zones) 3512' - 3548'(Corrected Depth to Log) Test Times 15"-45"-30"-60" IFP Weak Surface Blow built to 0.5"; FFP Weak blow built to Fair 4.25" Blow, no Blowback on SI's; REC: No detectable GIP, 30' OCM w/trc Wtr(10%O, 5%W, 85%M) not enough water for Cl determination; IFP 24-30#; ISIP 1104#, FFP 30-36#, FSIP 962#, IHP 1725#, FHP 1704#, BHT 107 Deg. F.

DST #2(Conglomerate/Simpson) 3744' - 3840'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak Surface Blow built to 0.5", FFP No Blow, no Blowback on SI's; REC: 10' Drilling Mud, no shows of oil or gas; IFP 20-22#, ISIP 136#, FFP 24-27#, FSIP 53#, IHP 1850#, FHP 1835#, BHT 111 Deg. F.

Comments

7/18/13 MIRU Sterling Drilling Rig #5 Spud at 4:00 PM.; 7/19/13 Drilling at 870'; 7/20/13 Drilling at 1140'; 7/21/13 Drilling at 2260'; 7/22/13 Drilling at 3085'; 7/23/13 TD. 3550' - TOH for DST #1; 7/24/13 Drilling at 3805'; 7/25/13 RTD. 3920' - Reached TD. at 5:00 AM. - TOH for Logs, LTD. 3920' - P & A.

Set new 8 5/8"(24#) Surface Casing set at 1009' with 400 sacks of Cement(Basic Energy Services). Cement did Circulate. PD. at 4:00 PM. 7/19/13.

Surveys: 1.50 Degree at 1014'(Surface Casing); Attempt Survey - Misrun at 3550'(DST #1); 0.75 Deg. at 3842'(DST #2).


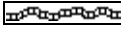
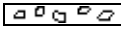
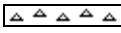
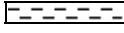







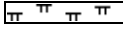

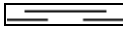
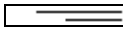
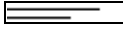



Pipe Strap at 3550'(DST #1): Strap 1.08' Short to the Board, no correction made to the Board.

After review of the Nabors Logs, DST's, Samples and lack of commercial amounts of hydrocarbons, the operator elected to Plug and Abandon the Musselman #5-34 at RTD. 3920' on 7/25/2013.








































































LOG TOPS: Anhydrite 987(+1010), Topeka 3032(-1035), Queen Hill Shale 3284(-1287), Heebner Shale 3391(-1394), Toronto 3406(-1409), Douglas Sand 3446(-1449), Brown Lmst. 3498(-1501), Lansing 'A' 3507(-1510), Lansing 'B' 3536(-1539), Lansing/KC 'H' 3636(-1639), Base Kansas City 3727(-1730), Marmaton 3739(-1742), Conglomerate 3768(-1771), Simpson Sand 3820(-1823), Arbuckle 3873(-1876).

NOTE: This log was shifted upward by 2' for correlation purposes with the Nabors Wireline Services LOGS.

ROCK TYPES

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

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  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  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

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

- V Vuggy
- SORTING**
- W Well
 - M Moderate
 - P Poor

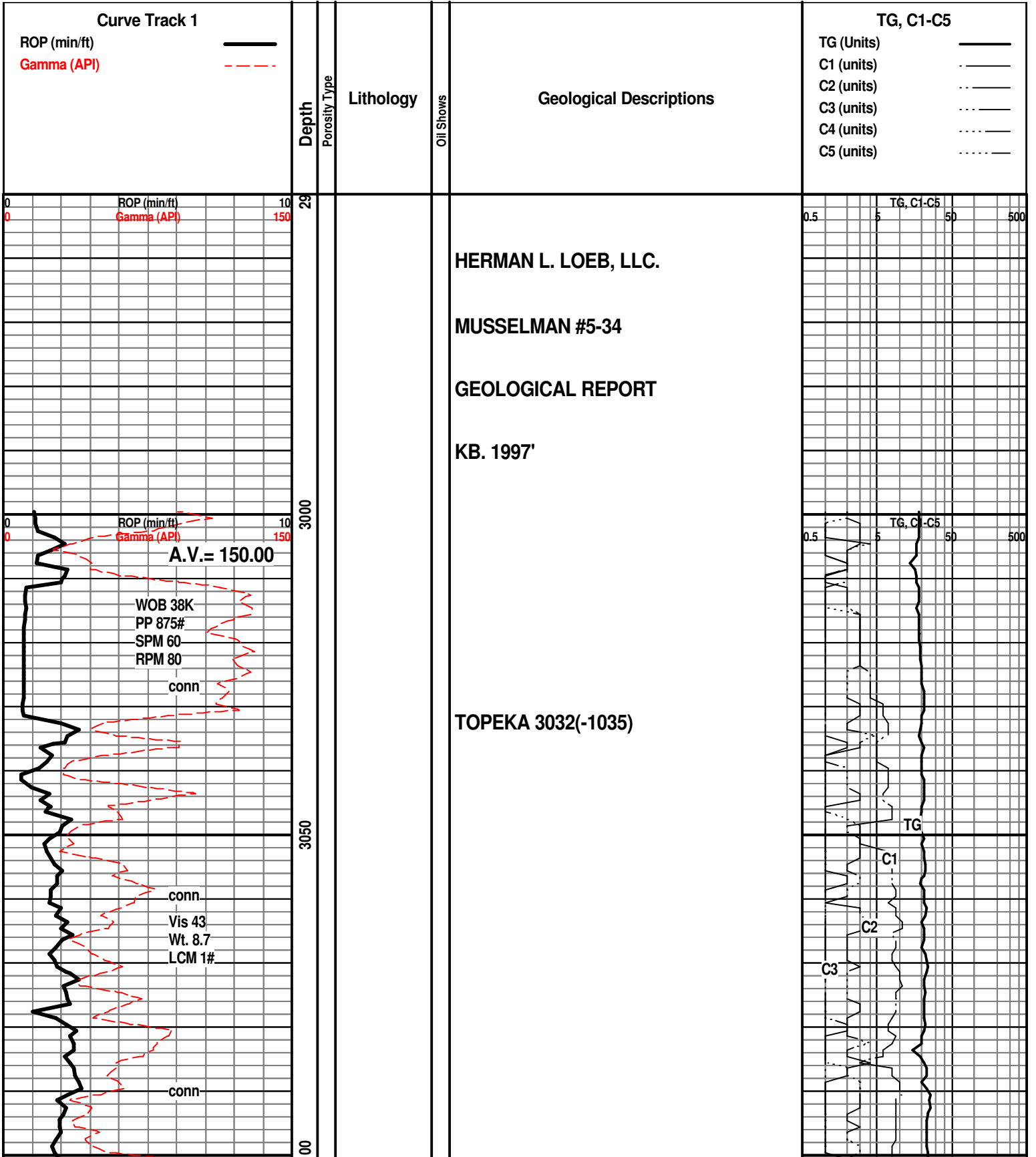
- ROUNDING**
- R Rounded
 - S Subrnd
 - a Subang
 - A Angular

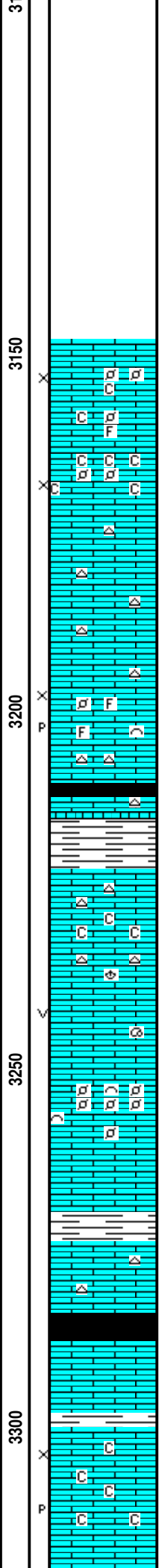
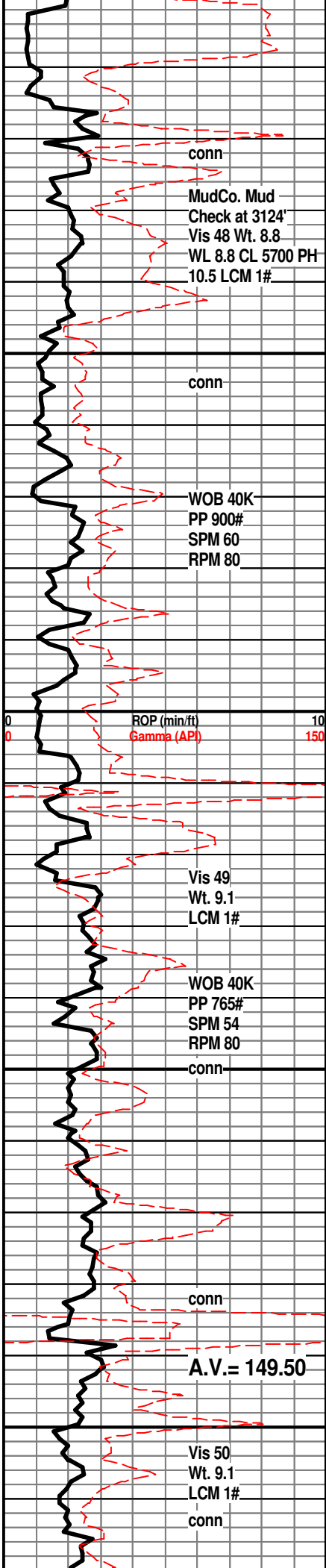
- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- INTERVAL**
- Core
 - Dst

- OIL SHOW**
- Even





LM; lt brn, buff, foss w/scat small pellets and hash, interbdd soft chalky mtx, dull yel fluor, poor interpart por, no stn, ns.

LM; lt brn, wh, tan, foss ip, v. soft - chalky mtx, scat fair interpart por, no fluor, ns.

LM; med brn, gy brn, dense, some micritic, interbdd gy to brn cht, no vis por, ns.

LM; lt brn, tan, f to med xln, occ foss ip, fair p-p and interxln por, occ gy cht, dull yel min fluor, no stn or odor, ns.

SH; blk, platy, carb ip.

SH; med to dk gy, fiss

LM; off wh, tan, buff, fxln to micritic, some blocky - hd, interbdd chalky lmst, scat lt yel fluor, no vis stn, no gas kick, ns.

LM; tan to lt brn, foss ip, scat small vug por in some, most tite, lt yel min fluor, no stn or odor, ns.

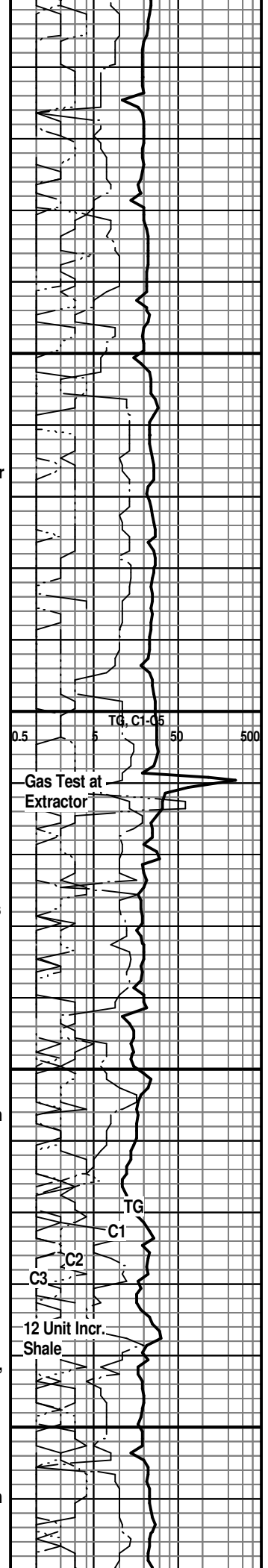
LM; lt gy, tan, buff, foss w/scat pellets and small ooids, some hash, trc poor interpart w/some p-p por, lt yel min fluor, no vis stn, no odor, ns.

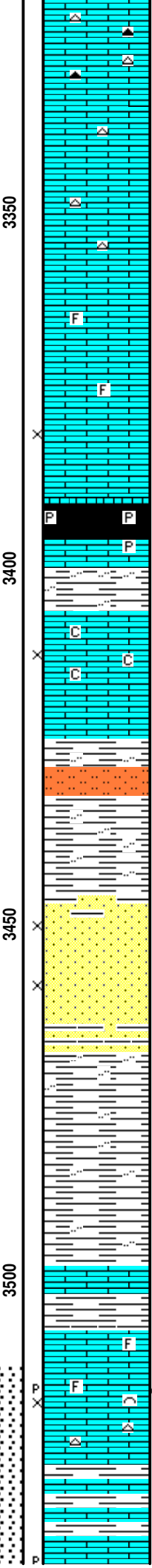
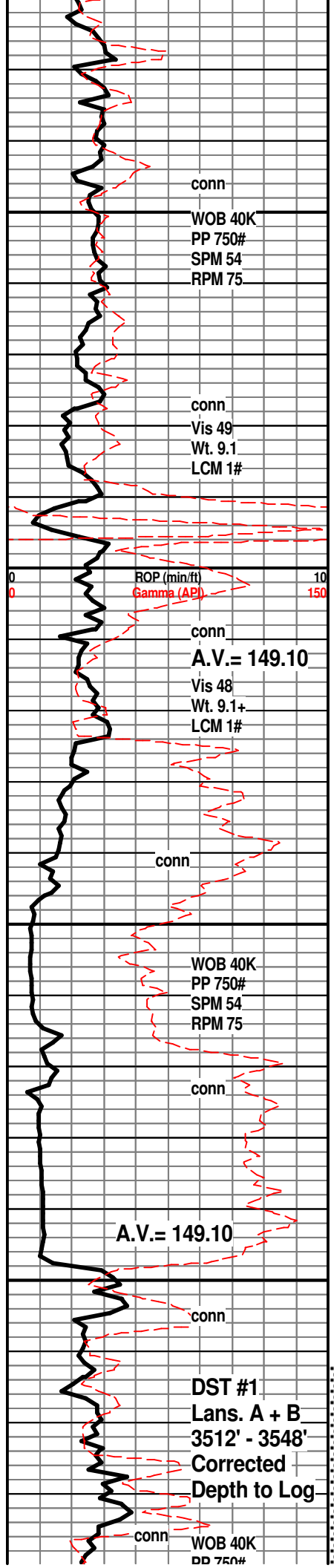
SH; med to dk gy, platy, smooth

LM; buff, lt gy brn, fxln, most dense, scat gy cht, tite

QUEEN HILL SHALE 3284(-1287)
SH; v. dk gy, blk, soft ip, platy
LM; off wh, tan, buff, fxln ip, scat chalk and chalky lmst, firm, interbdd foss, no fluor, ns.

LM; off wh, tan, buff, fxln w/interbdd chalk and chalky mtx, poor to fair interxln w/scat p-p por, no fluor, no stn or odor, ns.





LM; lt to med brn, gy brn, most hd, micritic, blocky, rare gy cht, no vis por, ns.

LM; med brn, dense, micritic, blocky, occ cherty, lrg increase in gy shales, no fluor, no stn, ns.

LM; tan to lt brn, buff, fxl, occ foss, poor vis interxln por, dull yel to no fluor, no stn or odor, ns.

HEEBNER SHALE 3391(-1394)

SH; blk, carb, blocky, occ pyr

LM; med brn, dense, micritic, pyr ip.

SH; lt gy grn, firm, occ silty

TORONTO 3406(-1409)

LM; off wh, lt gy, wh, fxl, some w/sucrosic text, poor interxln por, uniform lt yel fluor, no stn or odor, occ soft - chalky mtx, no gas kick, ns.

DOUGLAS SHALE 3424(-1427)

SH; lt gy, silty w/interbdd stst, platy, occ mica

SH; lt gy, gy grn, fiss, silty

DOUGLAS SAND 3446(-1449)

SS; lt gy, all f gr qtz, clusters, gd intergran por, v. mica ip, most clean, fri, spotted dull to lt yel fluor, gas bubbles evident, no odor, no vis oil stn, some agril ss, poss. gas zone - check logs

SH; lt to med gy, platy, some v. soft - gumbo, sticky ip.

SH; med gy, fiss, silty ip.

BROWN LMST. 3498(-1501)

LM; med brn, hd, blocky, tite

LANSING 'A' 3507(-1510)

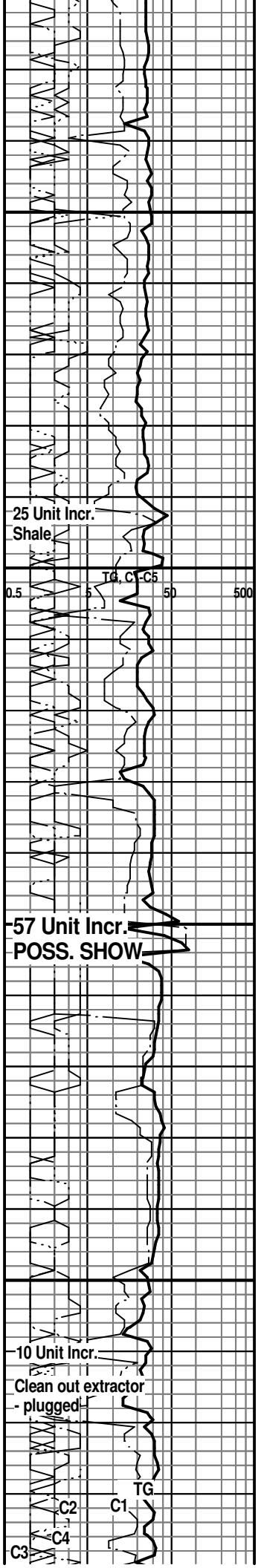
LM; off wh, med xln, scat well cem foss, no vis stn, no odor, lt yel min fluor, no sample show

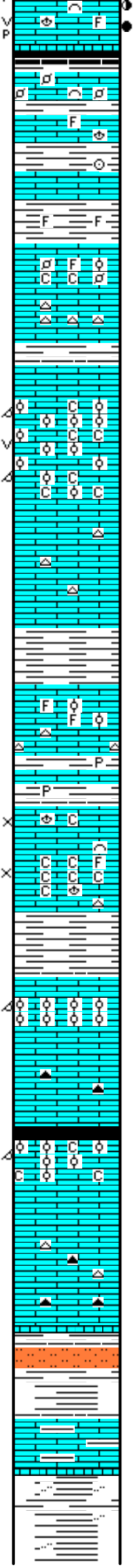
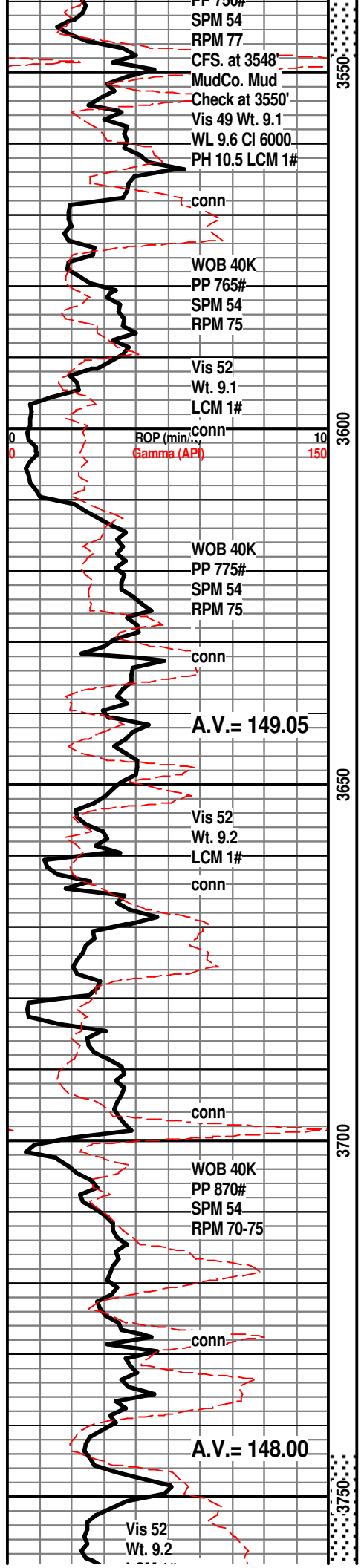
LM; off wh, foss, scat fair p-p and interpart por, much spotted lt/med brn oil stn, fair to gd odor, med yel fluor, SSFO, some tite, fair cut

LM; off wh, tan, hd, scat tan/off wh cht, tite

LANSING 'B' 3536(-1539)

LM; off wh, buff, foss ip, much p-p w/occ vug por, most





w/even lt brn stn, gd odor, med to brite yel fluor, SFO, gas bubbles, fair/gd cut

DST #1: Lansing A + B 3512' - 3548'
Corrected Depths to Log

LM; med brn, gy brn, foss - pelletal, well cem, blocky, scat pyr, no vis por, no flour, ns.

SH; med gy, firm, foss ip

LM; tan to off wh, buff, foss ip w/scat small pellets and hash, loosely cem, scat soft chalky mtx, no fluor, no stn, ns.

LM; off wh, buff, dense, scat off wh cht, tite

LANSING 'G' 3591(-1594)

LM; tan to buff, rare lt brn, oolitic w/med size moldic por, scat rare vug por, some brittle, chalky mtx ip, lt to occ med yel min fluor only, no stn or odor, no gas kick, barren, ns.

LM; tan to off wh, buff, dense, most micritic, rare tan cht, tite

SH; med to dk gy, smooth

LANSING/K.C. 'H' 3636(-1639)

LM; lt to med brn, occ lt gy, scat well cem foss, rare oolitic lmst, no vis por, no stn or odor, ns.

SH; med gy, pyr ip, platy

LM; off wh, wh, tan, fxln w/scat foss hash, some gran text, poor to fair interxln por, abnt soft chalky mtx, lt yel min fluor, no stn or odor, no gas kick, ns.

SH; grn, yel, some varic, platy

K.C. 'J' ZONE 3677(-1680)

LM; lt to med brn, oolitic, med to occ lrg molds w/gd oomoldic por, some rextalized, lt yel min fluor, no vis stn, no odor, ns.

LM; lt brn, tan, micritic, blocky, scat amber cht, no vis por, ns.

SH; blk, fiss

LM; lt brn, oolitic w/mostly small to med size molds, fair oomoldic por, scat lt yel min fluor, chalky ip, no stn or odor, no gas kick, ns.

LM; lt to occ med brn, most micritic, blocky, scat grn spicular cht, dense, no vis por, ns.

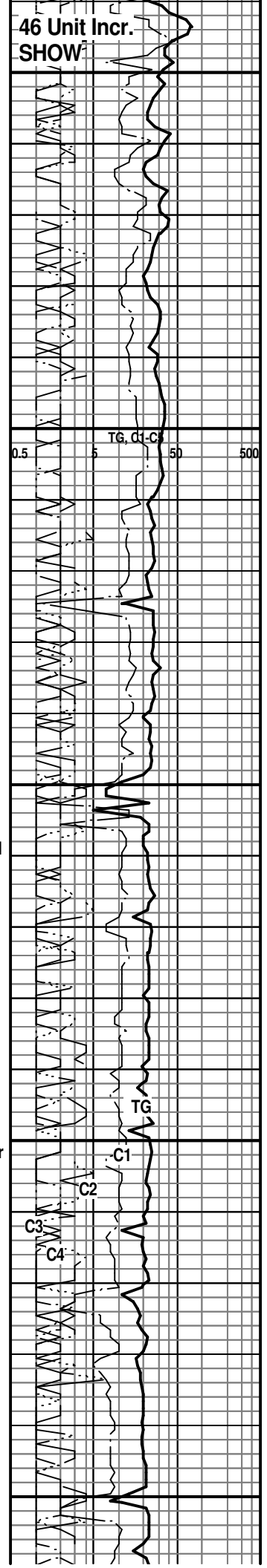
BASE KANSAS CITY 3727(-1730)

SH; varic, grn, rust red/brn, silty w/interbdd brn sltst, firm

MARMATON 3739(-1742)

LM; lt to med gy, gy brn, some argil, scat well cem foss mat, interbdd cse xln sub-chalky lmst, dull yel to no fluor, no stn, no gas kick

SH; varic, grn, gy, rust red, brn, dk gy - blk, occ silty, some v. stickv - dumbo



LCM 1# - conn

WOB 40K
PP 875#
SPM 55
RPM 70

conn

ROP (min/f) 10
Gamma (Af) 150

DST #2
Conglom. &
Simpson SS
3744' - 3840'
Corrected
Depths to
LOG

CFS. at 3840'
MudCo. Mud
Check at 3841'
Vis 52 Wt. 9.3
WL 11.2 CI 6200
PH 9.5 LCM Trc.

conn

CFS. at 3868'

R R R R
R= Rough Drlg.

CFS. at 3887'

WOB 40K
PP 900#
SPM 55
RPM 75

Vis 56
Wt. 9.2
LCM 2#

CFS. at RTD.

3800
3850
3900
3950



CONGLOMERATE 3768(-1771)

CONGL; weath red lmst, gy and org cht, scat sucrosic text/party dolomitic lmst, occ weathered nodular lmst, no fluor, no vis stn, no gas kick, ns.

SH; varic, rust red, grn, platy

LM; off wh, weathered, fractured ip, few pcs w/med yel fluor, small vugs w/spotted oil stn, some sandy text, most looks tite

SH; varic, grn, rust red

SH; grn, some turquoise grn, sandy ip w/trc vf gr qtz tite ss, rare pcs w/med gr qtz in shale, no clean ss dev, no vis stn, no fluor

SIMPSON SAND 3820(-1823)

SS; med to cse gr, rnd, argil ip. w/some totally bdd w/blk tar/gilsonite, poor intergran por, interbdd vfg/silty ss - lt gy/grn, tite, no odor, no live shows

SH; grn, some turquoise grn, silty to occ sandy, trc vf gr tite ss, no fluor, no stn, ns.

DST #2: Conglomerate/Simpson Sand 3744' - 3840' Corrected Depth to Log

SH; grn, gy grn, some maroon w/med gr qtz gr in mtz, interbdd ss strng - med gr, shaly

SH; brite turquoise grn, sandy ip, platy

SS; lt brn, f/med gr qtz, clusters, strong odor, lt yel fluor, spotted stn, trc FO in fri clusters, most well cem - pyr ip, no gas kick, fair cut, tar/gils.

ARBUCKLE 3873(-1876)

DOL; off wh, tan, cream, v. lmy at top, hd, med yel min flour, rare spotted stn, med rhombic ip. w/fair vug por, sulfur odor, no gas kick

DOL; tan to lt brn, lt gy, fine rhombic, scat poor vug por, occ oolitic cht, med yel min fluor, no vis oil stn, fair odor, no gas kick, barren por

DOL; off wh, tan, finely rhombic, scat chalky mtz, scat blk dead oil flakes/gils, uniform med yel min flour, fair vug por, faint odor, no live shows, no gas kick

DOL; off wh, tan, lt gy, sucrosic to fine rhombic, fair interxln w/occ vug por, chalky, no stn or odor, occ hd - lmy, ns.

RTD. 3920' at 5:00 AM. 7/25/13

LTD. 3920'

Nabors Wireline Services - DIL,
NEU/DEN w/PE, Microlog, Sonic

NOTE: This log was shifted upward by 2' for correlation purposes with the Nabors LOGS.

5 Unit Incr.

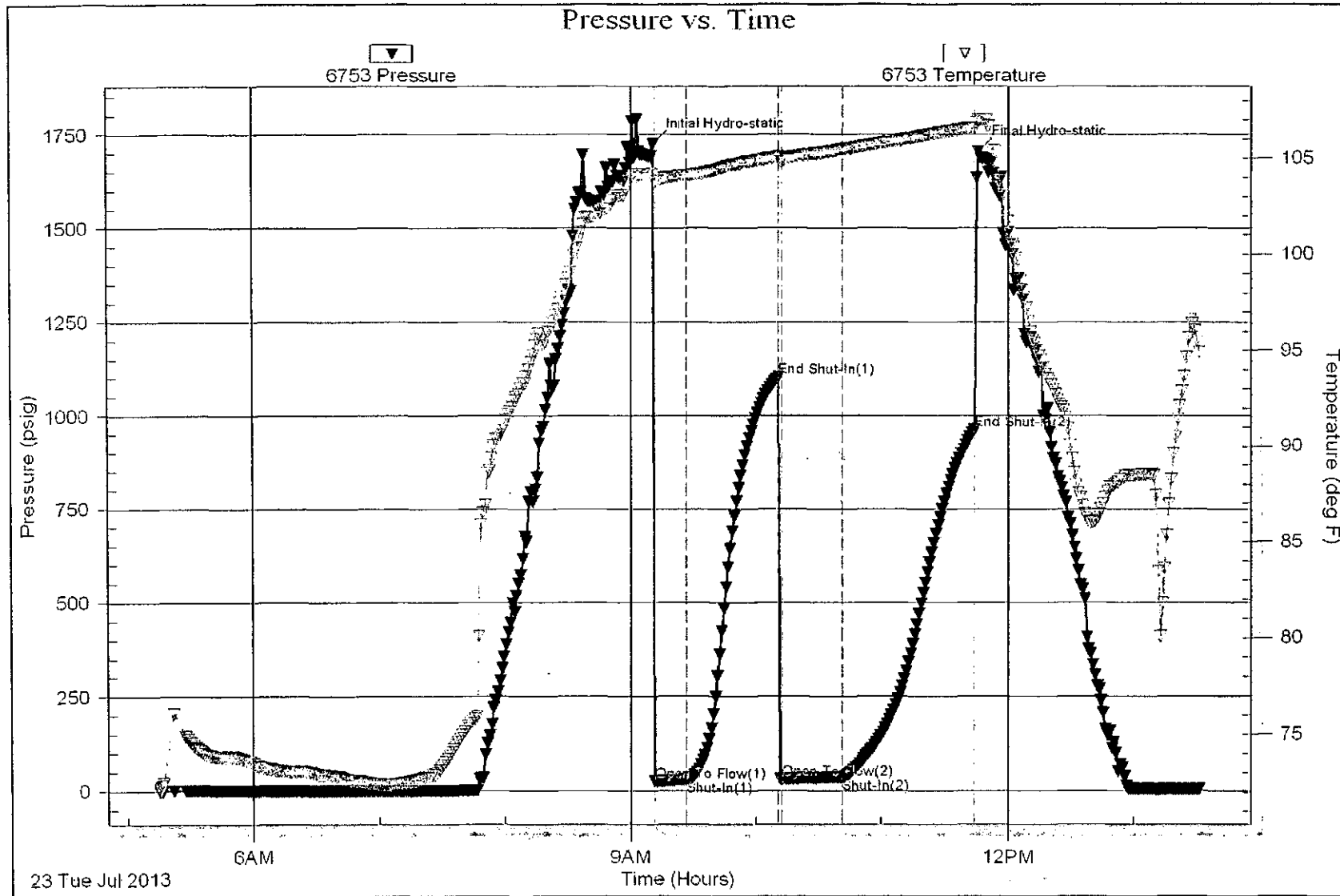
5 Unit Incr.
Poss. Show

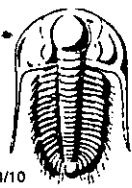
4 Unit Incr.
Poss. Show

TG, C5 50 500

TG

C1
C2
C3
C4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54295

Well Name & No. Musselman #4-34 Test No. 1 Date 7/23/13
 Company Herman L. Loeb, LLC Elevation 1997 KB 1985 GL
 Address PO BOX 838 Lawrenceville IL 62439
 Co. Rep / Geo. Jon Christensen Rig Steering #5
 Location: Sec. 34 Twp. 21s Rge. 16w Co. Pawnee State KS

Interval Tested 3514-3550 Zone Tested KC "A+B"
 Anchor Length 36 Drill Pipe Run 3187 Mud Wt. 8.8
 Top Packer Depth 3509 Drill Collars Run 330 Vis 48
 Bottom Packer Depth 3514 Wt. Pipe Run — WL 8.8
 Total Depth 3550 Chlorides 5,700 ppm System LCM
 Blow Description IF - Surface blow built to 1/2 in
IS1 - No blow
FF - Surface blow built to 4 1/4 in
FS2 - No blow

Rec	Feet of	%gas	%oil	%water	%mud
30	vswocm	10		5	85

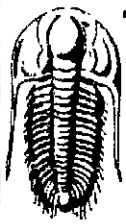
Rec Total 30 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,725</u>	<input checked="" type="checkbox"/> Test _____	T-On Location <u>3:45</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>5:15</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>9:10</u>
(D) Initial Shut-In <u>1,104</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:40</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:30</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>129 rt</u>	Comments _____
(G) Final Shut-In <u>962</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1,704</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total _____	

Approved By _____

Our Representative Brett Dickinson

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
 PO Box 838
 Lawrenceville IL 62439
 ATTN: Jon Christensen

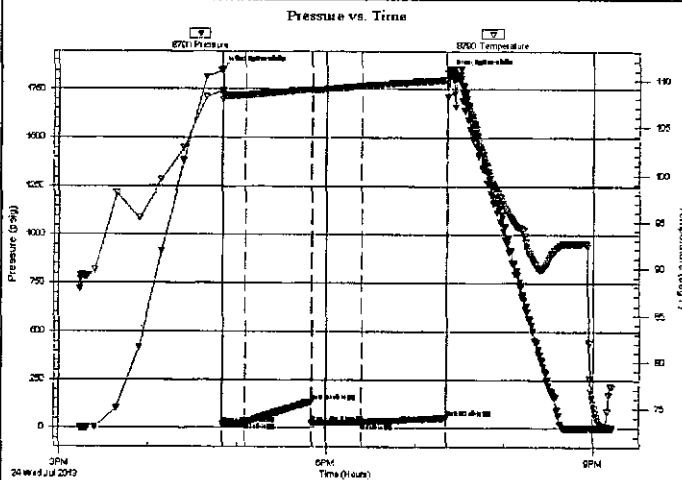
34-21-16, Pawnee, KS
 Musselman #4-34
 Job Ticket: 52340 DST#: 2
 Test Start: 2013.07.24 @ 15:14:14

GENERAL INFORMATION:

Formation: Congl. / Simpson Sd.
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:50:29
 Time Test Ended: 21:13:14
 Interval: 3746.00 ft (KB) To 3842.00 ft (KB) (TVD)
 Total Depth: 3842.00 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: 1997.00 ft (KB)
 1985.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8790 Inside
 Press@RunDepth: 26.99 psig @ 3747.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.24 End Date: 2013.07.24 Last Calib.: 2013.07.24
 Start Time: 15:14:14 End Time: 21:13:14 Time On Btm: 2013.07.24 @ 16:49:44
 Time Off Btm: 2013.07.24 @ 19:22:44

TEST COMMENT: IF: Weak blow, Surf. - 1/2"
 IS: NO blow
 FF: No blow
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.37	108.82	Initial Hydro-static
1	19.77	107.92	Open To Flow (1)
16	22.46	108.41	Shut-In(1)
61	135.84	109.02	End Shut-In(1)
61	24.31	108.97	Open To Flow (2)
95	26.99	109.36	Shut-In(2)
152	53.02	110.06	End Shut-In(2)
153	1834.52	111.07	Final Hydro-static

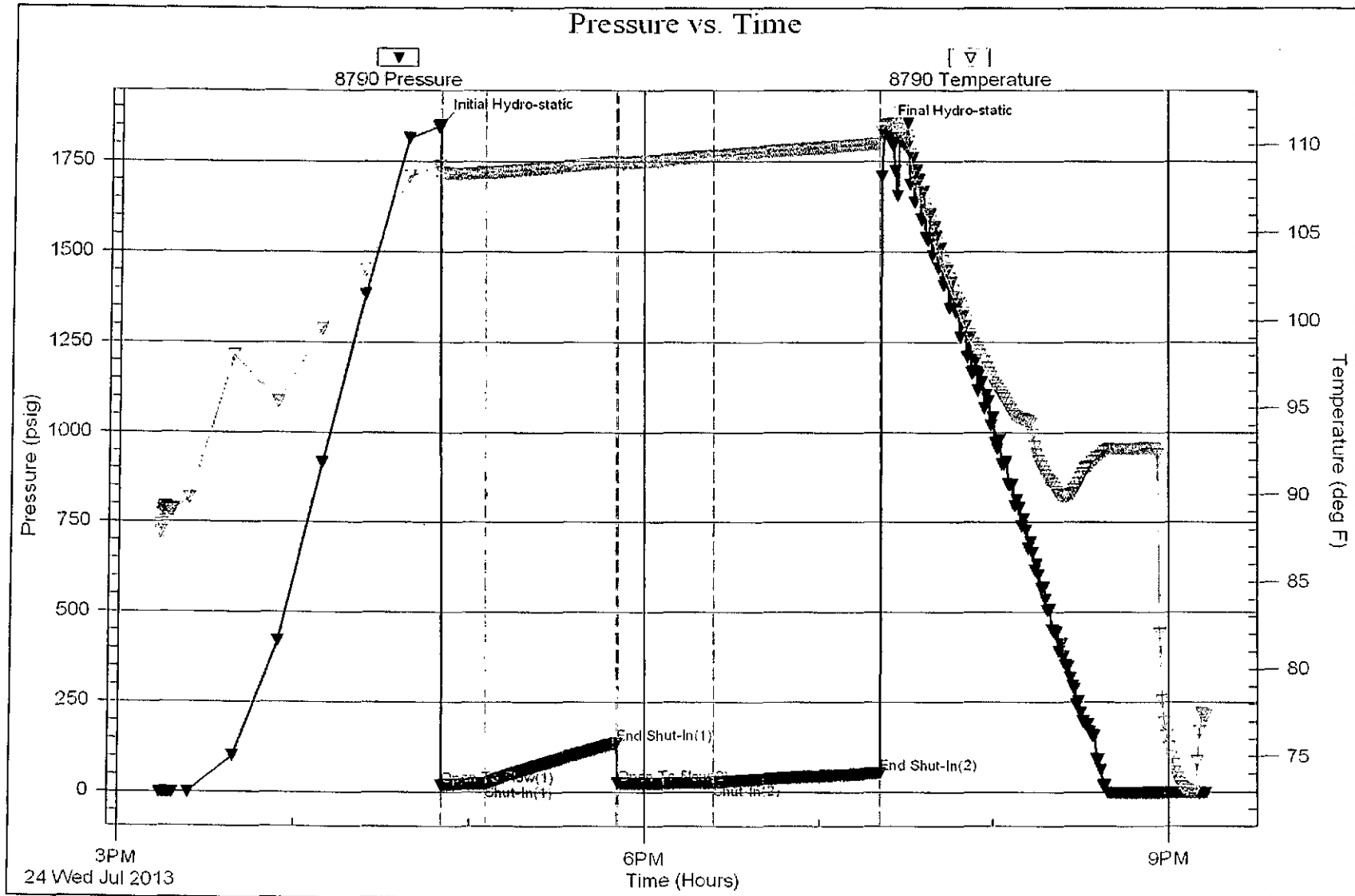
Recovery

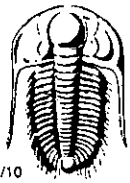
Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% mud	0.05

* Recovery from multiple tests

Gas Rates

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





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

No. 52340

Well Name & No. Musselman 5-34 Test No. 2 Date 7-24-13
 Company Herman L. Loeb, LLC. Elevation 1997 KB 1985 GL
 Address P.O. Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling 5
 Location: Sec. 34 Twp. 21s. Rge. 16w Co. Pawnee State KS

Interval Tested 3746-3842 Zone Tested Congl. / Simpson
 Anchor Length 96 Drill Pipe Run 3410 Mud Wt. 9.3
 Top Packer Depth 3741 Drill Collars Run 330 Vis 52
 Bottom Packer Depth 3746 Wt. Pipe Run Ø WL 11.2
 Total Depth 3842 Chlorides 6200 ppm System LCM Trc.
 Blow Description IF: Weak blow. Surf. - 1/2" ISI: No blow
FF: No blow FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Dry 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 Total 10 BHT 111 Gravity N/C API RW N/C @ N/C °F Chlorides 6200 ppm

(A) Initial Hydrostatic <u>1850</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>1345</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars	T-Started <u>1514</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1650</u>
(D) Initial Shut-In <u>136</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1920</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2113</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>115</u>	Comments
(G) Final Shut-In <u>53</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1835</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total
	<input type="checkbox"/> Accessibility	Total
	Sub Total	MP/DST Disc't

Approved By [Signature]

Our Representative Ryan Reynolds

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.

6076
701 mussel
6438



BASIC
ENERGY SERVICES

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 07/30/2013
INVOICE NUMBER 1718 - 91249984		

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

J LEASE NAME Musselman 5-34
 O LOCATION
 B COUNTY Pawnee
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40622956	20920		Net - 30 days	08/29/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 07/25/2013 to 07/25/2013</i>				
0040622956				
171808397A Cement-New Well Casing/Pi 07/25/2013				
Cement PTA				
60/40 POZ	210.00	EA	9.00	1,890.00 T
Cement Gel	362.00	EA	0.19	67.88 T
"Unit Mileage Chg (PU, cars one way)"	60.00	MI	3.19	191.25
Heavy Equipment Mileage	120.00	MI	5.25	630.00
"Proppant & Bulk Del. Chgs., per ton mil	543.00	EA	1.20	651.60
Depth Charge; 3001-4000'	1.00	EA	1,620.00	1,620.00
Blending & Mixing Service Charge	210.00	BAG	1.05	220.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

PAID
42708
AUG 08 2013

SCANNED

PAID
42708
AUG 08 2013

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	5,402.48 159.57 5,562.05
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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 08397 A

DATE _____ TICKET NO. _____

DATE OF JOB 07-25-13 DISTRICT PRATT KS		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 LOEB		LEASE MUsSELMAN 5-34 WELL NO.							
ADDRESS		COUNTY Pawnee STATE KS							
CITY STATE		SERVICE CREW Sullivan, Melvin, Phyllis							
AUTHORIZED BY		JOB TYPE: CNW P.T.A.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 7-25-13	AM/PM	TIME
33708-20920	55					ARRIVED AT JOB		AM/PM	4:00
70959-19918	55					START OPERATION		AM/PM	5:45
37900						FINISH OPERATION		AM/PM	9:30
						RELEASED		AM/PM	12:15
						MILES FROM STATION TO WELL			60

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: Juan M. Roca
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 pot cmt	SK	210		2,520 00
CC 200	cmt pot	lb	362		90 50
E 100	pickup md	md	60		255 00
E 101	Heavy cont md	md	120		840 00
E 113	Bulk Soling	TM	543		868 80
CE 204	Depth Charge	SA	1		2160 00
CE 240	Blow Day - 10 hrs	SK	210		294 00
S 003	Servico Lubricants	SA	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL	5,402.49
SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

Thank you

SERVICE REPRESENTATIVE Robert Miller	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Juan M. Roca
--------------------------------------	--

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer HERMAN Loeb	Lease No.	Date
Lease Musselman	Well # 5-34	07-25-13
Field Order # 8397	Station PRATT KS	Casing P.P.
Type Job CNW P.T.A.	Depth 3873'	County PAWNEE
	Formation	State KS
		Legal Description 34-21-16

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

Customer Representative	Station Manager DAVE Scott	Treater Robert Sullivan
Service Units	37900 33708 20920 70959 19918	
Driver Names	Sullivan methuen Phye	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00					run to soft, install P.T.A.
					Set Plug 3873' w/50sk
5:45	250		10	2.5	spacer
			10.5	"	cmf
			45	4.5	Disc
6:05					shot down
					Set Plug 1050' w/50sk
7:35			10		spacer
			10		cmf
			4		Disc
7:45					shot down
					plug @ 250' w/40sk
8:00			5		spacer
			8		cmf
8:15			7		Disc
					shot down
9:10			6		plug Top 60' w/20sk
			7		plug RH w/30
			6		plug MH w/20
9:30					JOB complete



BASIC
ENERGY SERVICES

6076
701 mussel
6438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 07/22/2013
INVOICE NUMBER 1718 - 91242832		

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

J LEASE NAME Musselman 5-34
O LOCATION
B COUNTY Pawnee
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40619477	19905			Net - 30 days	08/21/2013
For Service Dates: 07/19/2013 to 07/19/2013					
0040619477			QTY	U of M	UNIT PRICE
171808670A Cement-New Well Casing/Pi 07/19/2013 Cement Surface					
A-Con Blend Common 200.00 EA 12.60 2,520.00 T					
Common Cement 200.00 EA 11.20 2,240.00 T					
Celloflake 100.00 EA 2.59 259.00 T					
Calcium Chloride 940.00 EA 0.74 690.90 T					
"Top Rubber Cmt Plug, 8 5/8"" 1.00 EA 157.50 157.50					
"8 5/8"" Guide Shoe (Red)" 1.00 EA 385.00 385.00					
Sugar 50.00 EA 1.40 70.00 T					
"8 5/8"" Basket (Blue)" 1.00 EA 220.50 220.50					
Flapper Type Insrt Float Valve 8 5/8(Blu 1.00 EA 196.00 196.00					
"Unit Mileage Chg (PU, cars one way)" 60.00 MI 2.98 178.50					
Heavy Equipment Mileage 120.00 MI 4.90 588.00					
"Proppant & Bulk Del. Chgs., per ton mil 1,128.00 EA 1.12 1,263.36					
Depth Charge; 1001'-2000' 1.00 EA 1,050.00 1,050.00					
Blending & Mixing Service-Charge 400.00 BAG 0.98 392.00					
Plug Container Util. Chg. 1.00 EA 175.00 175.00					
"Service Supervisor, first 8 hrs on loc. 1.00 EA 122.50 122.50					
PAID 42240 AUG 01 2013 SCANNED					

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,508.26
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	471.06
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,979.32
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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 08670 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-19-13 DISTRICT PRATT		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 Heiman Loeb LLC		LEASE Musselman		WELL NO. 5-34					
ADDRESS		COUNTY Pawnee		STATE KS					
CITY STATE		SERVICE CREW MATTAL, Young, Kuerin							
AUTHORIZED BY		JOB TYPE: CNW SP							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
37586	1						7-19-13	AM	10:00
						ARRIVED AT JOB		AM	12:30
						START OPERATION		AM	2:50
						FINISH OPERATION		AM	3:55
						RELEASED		AM	4:30
						MILES FROM STATION TO WELL			60

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: Yalan Latta
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE-REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	ACON Blend common	SK	200		3,600 00
CP 100C	COMMON CRT	SK	200		3,200 00
CC 112	cellofan	1B	100		370 00
CC 109	calcium chloride	1B	940		987 00
CE 105	108 inch pipe	EA	1		225 00
CF 203	8 5/8 guide shoe (r.o)	EA	1		550 00
CF 145)	FRAPP type jason float valve 8 5/8 size	EA	1		280 00
CF 1905	8 5/8 basket	EA	1		315 00
CC 131	SUGAR	LB	50		100 00
E 100	P.U. mileage	ME	60		255 00
E 101	HEAVY equip. mile Agr	ME	120		840 00
E 113	Prod + Bulk oil charge 7M mile	TM	1128		1804 60
CE 202	4 hr. Drill charge 1001-2000'	4hr.	1		1500 00
CE 240	Blend + mix service charge	SKS	400		560 00
CE 504	Plyng container charge	Job	1		250 00
5003	Service supervisor first 8 hrs	CON	1		175 00
				SUB TOTAL	10,508 26

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: Mike MATTAL THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Yalan Latta
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer He... LLC		Lease No.		Date 7-19-13	
Lease ...		Well # ...			
Field Order # ...	Station ...	Casing 8 1/8	Depth 1078	County ...	State KS
Type Job CDW SR			Formation	Legal Description ...	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 1/8	Tubing Size	Shots/Ft		Acid 200 gal. HCl	RATE 270 cc / 4 hr	PRESS	ISIP	
Depth 122'	Depth	From	To	Pre Pad	Max 270	44 cc	5 Min.	
Volume ...	Volume	From	To	Pad.	Min		10 Min.	
Max Press ...	Max Press	From	To	Frac HAIR @ 260	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush ...	Gas Volume		Total Load	

Customer Representative **MATT** Station Manager **Kevin G...** Treater **M R MATTAI**

Service Units	37586	77680	19905	19713	73766
Driver Names	M...	Y...		K...	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:50					Treatment location / ...
1:25					Run casing w gun ...
2:40					...
2:50			5	4	...
2:55			95	5	...
3:20	50		48	5	...
3:30					...
3:35	200		5	5	...
3:50	240		50	3	...
5:55	500		64		...

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

November 06, 2013

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

Re: ACO1
API 15-145-21727-00-00
MUSSELMAN 5-34
SE/4 Sec.34-21S-16W
Pawnee 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