



KANSAS CORPORATION COMMISSION 1115997
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- 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: _____



1115997

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 |
|---|---|

| 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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

| | | |
|---|--|--|
| 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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|---|--|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | HERMAN L. LOEB, LLC |
| Well Name | MILLER 3-12 |
| Doc ID | 1115997 |

Tops

| Name | Top | Datum |
|------------------|------|-------|
| Chase Krider | 2727 | +16 |
| Heebner | 4176 | -1433 |
| Lansing 'A' | 4273 | -1530 |
| BKC | 4736 | -1993 |
| Marmaton | 4755 | -2012 |
| Upper Morrow SST | 5006 | -2263 |
| St. Genevieve | 5028 | -2285 |
| St. Louis 'B' | 5048 | -2305 |
| St. Louis 'C' | 5068 | -2325 |

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Miller #3-12
Location: 850' FSL & 1124' FWL, Sec. 12-T27S-R29W, Gray Co., KS.
Licence Number: 15-069-20429-0000 Region: Wendel
Spud Date: 1/26/2013 Drilling Completed: 2/5/2013
Surface Coordinates: 850' FSL & 1124' FWL, Sec. 12-T27S-R29W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2730' K.B. Elevation (ft): 2743'
Logged Interval (ft): 4000' To: 5160' Total Depth (ft): 5160'
Formation: Mississippian St. Louis at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 2966'; Chemical Gel 2966' to 5160'

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(Morrow / St. Gene. / St. Louis) 5021' - 5065'(Corrected Depths to LOG) Test Times 15"-45"-30"-60" IFP Weak 0.25" Blow, FFP No Blow, no Blowback on SI's; REC: 10' Drlg. Mud, no shows, IFP 28-28#, ISIP 76#, FFP 32-32#, FSIP 50#, IHP 2511#, FHP 2471#, BHT 129 Deg. F.

DST #2(St. Louis 'B') 5066' - 5088'(Corrected Depths to LOG) Test Times 15"-45"-30"-90" IFP Weak 1" Blow, FFP Weak Blow/Died in 5", no Blowback on SI's; REC: 15' Drlg. Mud w/Oil specks, layer of Free Oil in top of Test tool; IFP 27-31#, ISIP 56#, FFP 34-39#, FSIP 54#, IHP 2558#, FHP 2493#, BHT 119 Deg. F.

DST #3(Upper Morrow Sst. - Straddle Packer Test after Logs) 4998' - 5016'(Corrected Depths to LOG) Test Times 15"-45"-15"-45" IFP Weak Surface Blow/Died in 10", FFP No Blow, no Blowback on SI's; REC: 15' Drlg. Mud, no Shows, IFP 22-26#, ISIP 250#, FFP 25-25#, FSIP 45#, IHP 2498#, FHP 2317#, BHT 116 Deg. F.

Comments

1/26/13 MIRU Sterling Drilling Rig #5, Spud at 6:48 PM; 1/27/13 Drilling at 548'; 1/28/13 TD. 1879' - Wiper Trip prior to Setting Surface Casing; 1/29/13 Drilling at 2045'; 1/30/13 Drilling at 3107'; 1/31/13 Drilling at 3740'; 2/1/13 Drilling at 4367'; 2/2/13 Drilling at 4790'; 2/3/13 Drilling at 5056'; 2/4/13 TD. 5091' - Circ. for Samples; 2/5/13 RTD. 5160' at 2:30 AM., Going into the hole with Halliburton OH Logs; 2/6/13 RTD. 5160', LTD. 5158' - P & A.

Set new 8 5/8"(24#) Surface Casing at 1875' with 600 sacks cement(Basic Energy Services). Cement did Circulate. PD. 2:30 PM. on 1/28/13. Cement fell 10 from Surface, Filled annulus with 2 yds. pea gravel.

Surveys: 1 Deg. at 1879'(Surface Casing); 0.75 Deg. at 5068'(DST #1); 0.75 Deg. at 5160' RTD.


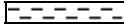

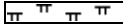
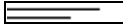
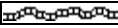




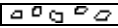


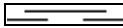






Pipe Strap at 5068'(DST #1): Strap 1.20' Short to the Board, no correction made to the Board.

LOG TOP: Chase Krider zone 2727(+16), Stotler Lmst. 3564(-821), Heebner Shale 4176(-1433), Toronto 4192(-1449), Lansing 'A' 4273(-1530), Kansas City 'A' 4604(-1861), Base Kansas City 4736(-1993), Marmaton 4755(-2012), Pawnee 4834(-2091), Cherokee Shale 4874(-2131), Upper Morrow Sst. 5006(-2263), St. Genevieve 5028(-2285), St. Louis 'B' 5048(-2305), St. Louis 'C' 5068(-2325).








































































NOTE: This log was shifted upward by 2' to 3' for correlation purposes with the Halliburton LOGS.

After review of the Halliburton Logs, DST data, structural position and lack of commercial amounts of hydrocarbons, the operator elected to Plug and Abandon the #3-12 Miller on 2/6/2013.

ROCK TYPES

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

ACCESSORIES

| | | | |
|---|---|---|--|
| MINERAL | | FOSSIL | |
|  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 | |
|  Carb |  Pyr |  Coral | STRINGER |
|  Chtdk |  Salt |  Crin |  Anhy |
|  Chtlt |  Sandy |  Echin |  Arg |
|  Dol |  Silt |  Fish |  Bent |
|  Feldspar |  Sil |  Foram |  Coal |
|  Ferrpel |  Sulphur |  Fossil |  Dol |
|  Ferr |  Tuff |  Gastro |  Gyp |
|  Glau | |  Oolite |  Ls |
| | | |  Mrst |
| | | |  Sltstrg |
| | | |  Ssstrg |
| | | | TEXTURE |
| | | |  Boundst |
| | | |  Chalky |
| | | |  Cryxln |
| | | |  Earthy |
| | | |  Finexln |
| | | |  Grainst |
| | | |  Lithogr |
| | | |  Microxln |
| | | |  Mudst |
| | | |  Packst |
| | | |  Wackst |

OTHER SYMBOLS

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

- [V] Vuggy
SORTING
 [W] Well
 [M] Moderate
 [P] Poor

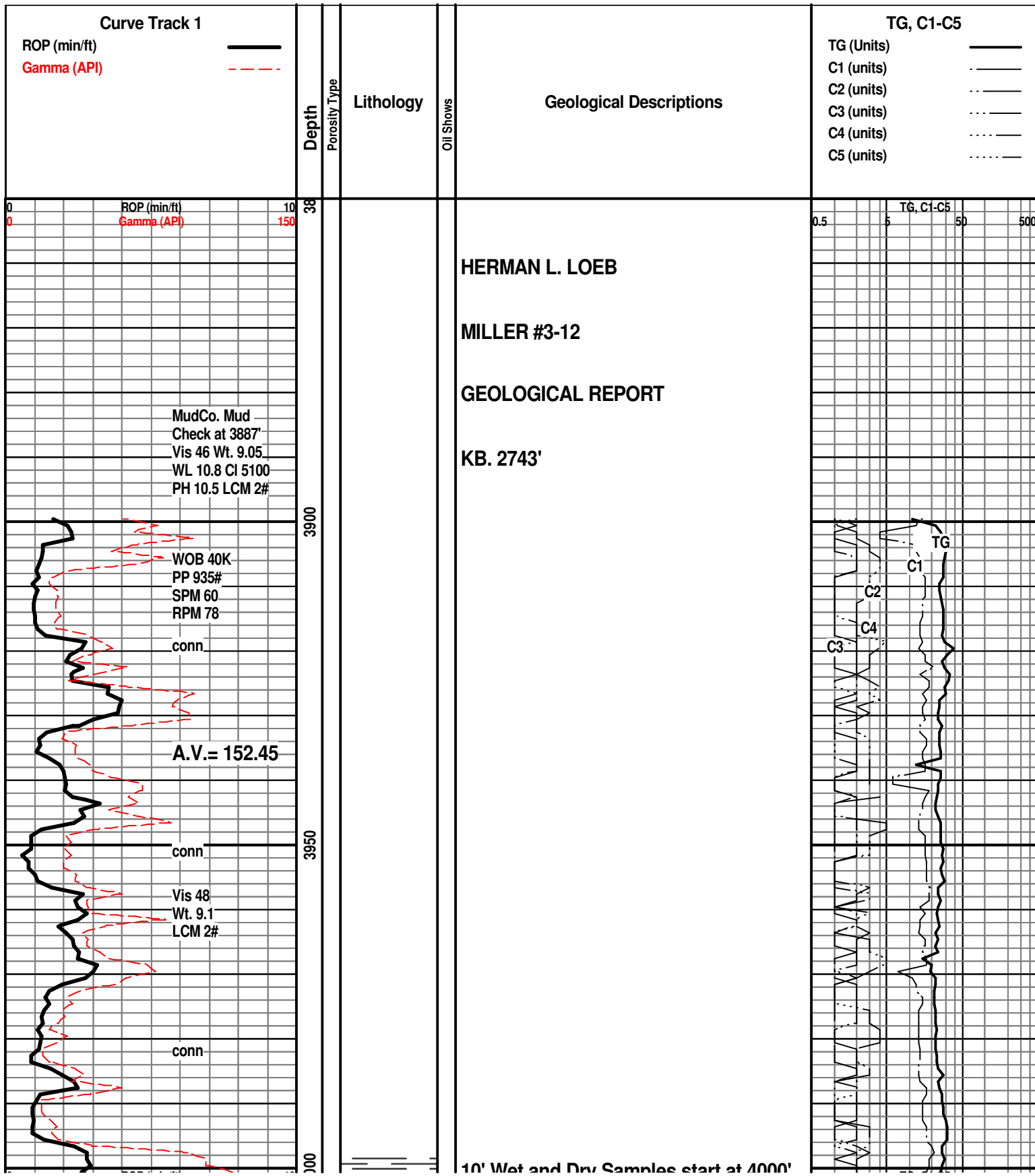
- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

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

- EVENT**
 [Rft] Rft
 [Sd] Sidewall

- OIL SHOW**
 [E] Even

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



ROP (min/ft)

Gamma (API)

conn
WOB 42K
PP 940#
SPM 60
RPM 79

conn

Vis 48
Wt. 9.1+
LCM 2#
conn

A.V. = 151.45

conn
WOB 40-42K
PP 905#
SPM 56
RPM 70-78

Vis 50
Wt. 9.1+
LCM 2#
conn

A.V. = 151.45

conn

Vis 52
Wt. 9.1
LCM 2#
conn

ROP (min/ft)

Gamma (API)

conn

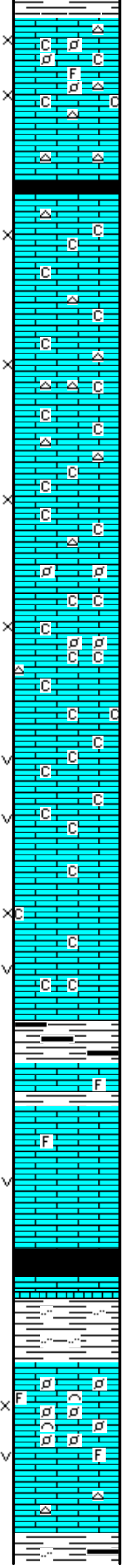
4100

4050

4100

4150

4200



LM; off wh, tan, buff, foss ip, scat finely pelletal lmst, fair interpart por, chalky mtx ip, lt yel fluor, scat off wh/wh cht, no stn or odor, ns.

SH; dk gy, blk, platy

LM; tan to buff, lt brn, fxln w/scat foss mat, fair to gd interpart/interxln por, occ cherty, lt yel fluor, no stn or odor, ns.

LM; off wh, buff, f to med xln, gd interxln por, much soft chalk and chalky mtx, lt yel min fluor, occ wh to off wh cht, no stn or odor, ns.

LM; off wh, tan, buff, f to med xln, scat foss mat w/occ pellets and foss hash, fair interpart por, chalky, lt yel min fluor, ns.

LM; wh - off wh, buff, tan, med xln, v. chalky - soft, much pure chalk, scat vug por, lt yel fluor, occ wh cht, ns.

LM; tan to buff, off wh, f to med xln, gd interxln w/scat vug por, chalky - soft mtx, lt yel min fluor, no stn or odor, ns.

SH; dk gy, some blk, platy

LM; tan to lt brn, buff, most dense, blocky, micritic, hd, scat well cem foss mat, no fluor, ns.

LM; off wh, buff, tan, f to med xln, scat small vug por, dull yel fluor, no stn or odor, ns.

HEEBNER SHALE 4176(-1433)

SH; blk, carb, gassy

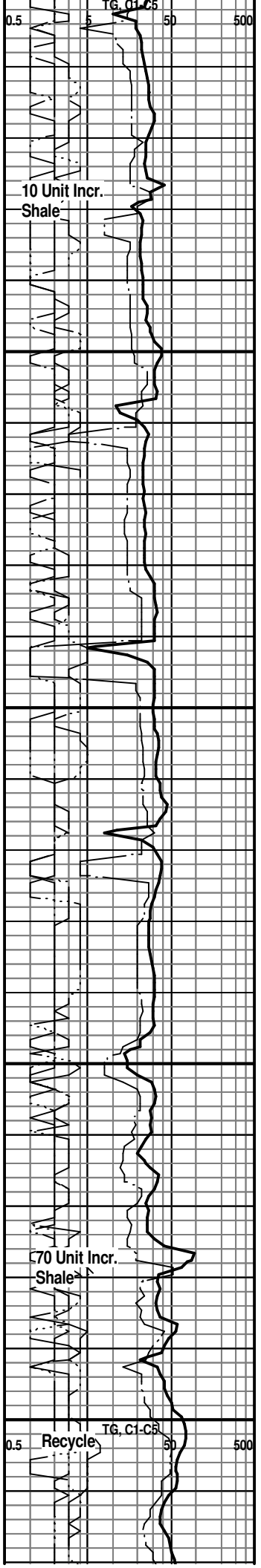
LM; med to dk brn, v. hd, blocky

SH; lt gy, rare grn, soft - sticky ip, occ silty

TORONTO 4192(-1449)

LM; off wh, wh, buff, foss w/scat foss pellets and hash, fair to gd interpart w/occ vug por, lt yel fluor, no stn or odor, ns.

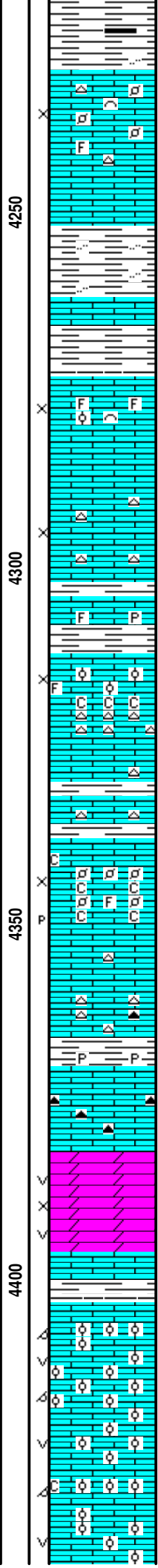
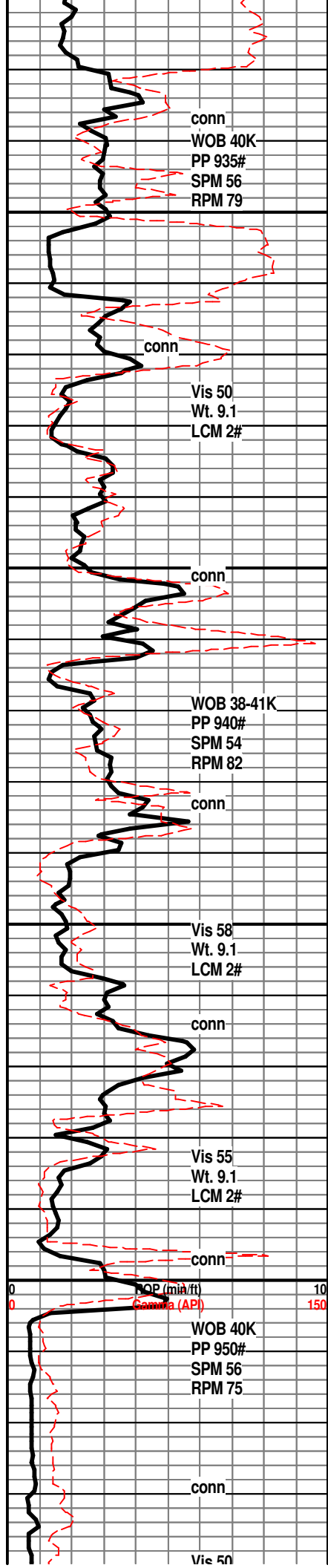
LM; tan to lt brn, off wh, most dense, blocky, occ off wh cht



10 Unit Incr. Shale

70 Unit Incr. Shale

TG, C1-C8
Recycle



SH; med to dk gy, some blk, fiss

LM; lt to med brn, occ dk brn, micritic ip, interbdd foss lmsst w/poor interpart por, rare gy cht, no fluor, no stn or odor, ns.

LM; lt brn, tan, most dense, blocky, tite

SH; med gy, gy brn, soft, rare rust red, silty ip,

LM; med brn, dense, blocky

LANSING 'A' 4273(-1530)

LM; tan to cream, lt brn, fxln, fair interxln por, some soft chalky mtx, scat foss mat, lt yel min fluor, no stn or odor, ns.

LM; tan to lt brn, fxln w/scat sucrosic text, fair interxln por, cherty ip, lt yel fluor, no stn or odor, ns.

LM; lt brn, hd, scat well cem foss, occ pyr, tite

LANSING 'B' 4312(-1569)

LM; off wh, buff, tan, foss - partly oolitic at top, interbdd soft chalky mtx, abnt wh/off wh cht, fair interpart por, lt yel fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, hd, most micritic, scat off wh to lt gy cht, tite

SH; med gy, grn, trc red, platy

LM; off wh, wh, buff, finely pelletal - foss, very chalky ip, soft, some fair interpart/p-p por, lt yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, most dense, micritic, cherty w/off wh, brn, dk gy-smokey cht

SH; med gy, platy, occ pyr

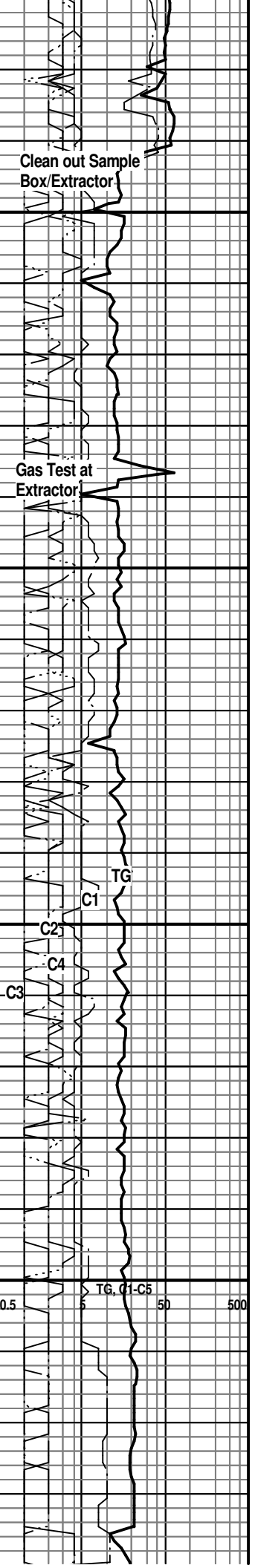
LM; med to dk brn, hd, scat dk gy - smoky cht

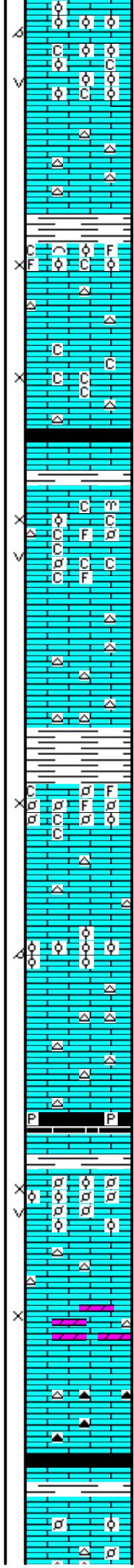
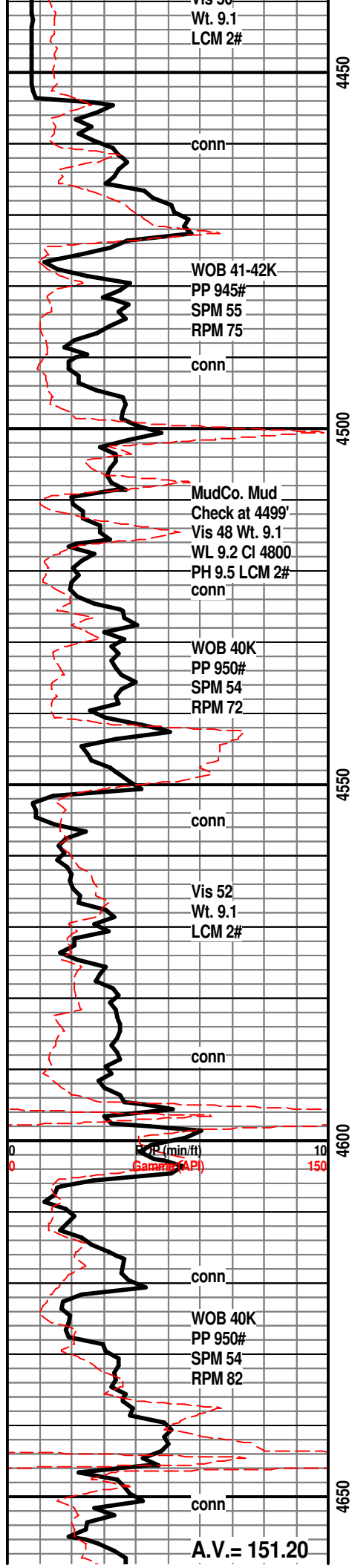
DOL; lt brn, buff, sucrosic, well dev. interxln w/vug por, scat cse spar calc xtals, lt yel min fluor, no stn or odor, ns.

LANSING 'G' POROSITY 4403(-1660)

LM; tan to lt brn, oolitic, med to occ lrg molds, well dev. oomoldic and occ vug por, brittle, med to occ brite yel min fluor, rextalized ip, no stn or odor, no gas kick, barren, ns.

LM; lt to med brn, profusely oolitic, med to lrg molds, brittle, some rextalized, interbdd gran text oolitic lmsst,





minor wh chalky mtx, med to brite yel min fluor, no stn or odor, ns.

LM; lt to med brn, dense, cherty ip, tite

SH; med to dk gy, sticky ip.

KANSAS CITY 'H' 4474(-1731)

LM; tan to lt brn, foss - partly oolitic, abnt foss hash, fair interpart por, interbdd soft chalky mtx, spotty lt yel fluor, no stn or odor, ns.

LM; off wh, wh, fxln w/abnt chalky and soft chalky mtx, poor interxln por, no fluor, ns.

LM; lt gy, hd, micritic, blocky

LM; off wh, wh, buff, foss w/scat foss hash, some very chalky mtx, poor to fair interpart w/scat small vug por, lt yel fluor, no stn or odor, ns.

LM; tan to lt brn, buff, most dense, micritic, blocky, scat off wh/gy cht, no vis por, lt yel min fluor, ns.

SH; dk gy, platy, smooth

LM; off wh, tan, foss - pelletal, scat foss hash, weakly cem - fair interpart por, some soft chalky mtx, lt to med yel fluor, no stn or odor, no sample shows

LM; lt gy, foss - oolitic, poor oomoldic por, scat foss mat, most well cem, lt yel min flour, no stn or odor, ns.

LM; tan to buff, lt brn, hd, micritic, scat gy to off wh cht, tite

SH; blk, carb ip, pyr ip, hd

KANSAS CITY 'A' 4604(-1861)

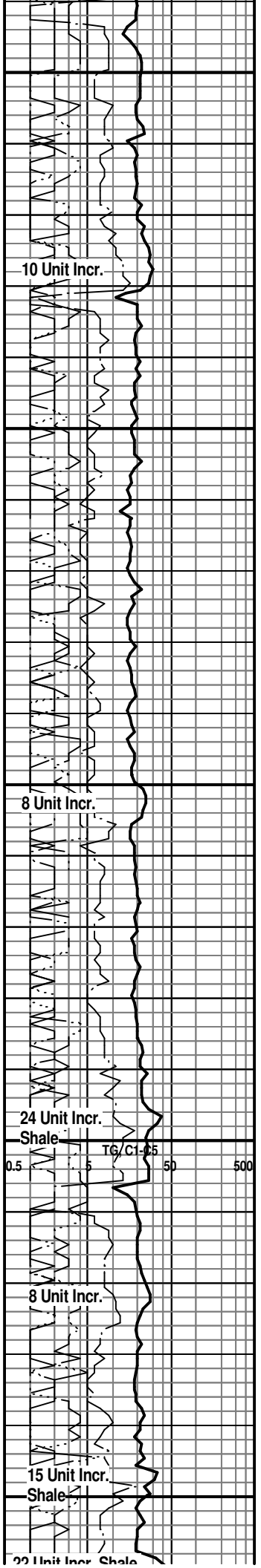
LM; lt brn, foss - oolitic, abnt small pellets and ooids, fair interpart por, minor vug por, lt yel min fluor, no stn or odor, no gas kick, ns.

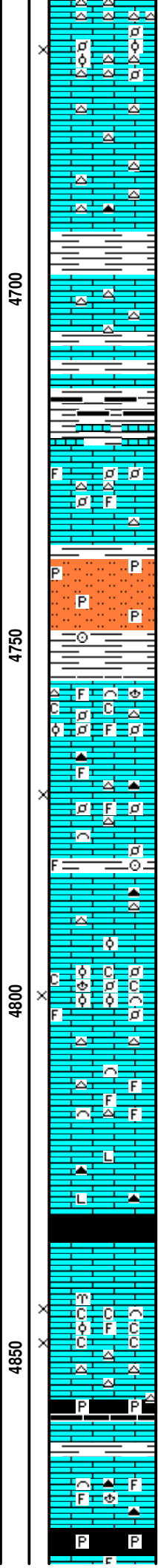
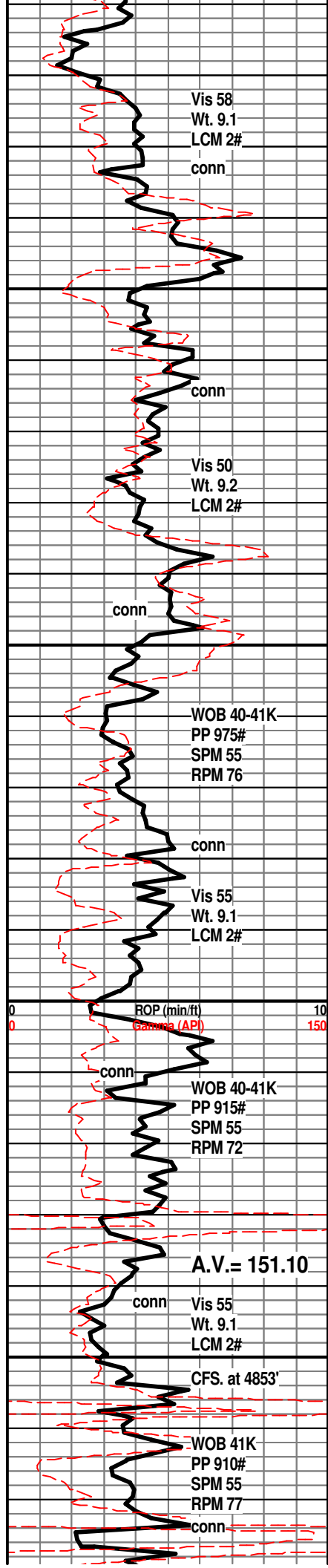
LM; off wh, wh, buff, fxln w/scat sucrosic text, partly dolomitic, fair interxln por, occ cherty, lt to rare med yel fluor, no stn or odor, no sample shows

LM; med brn, hd, scat amber/brn cht, tite

SH; blk, carb ip, platy

LM; off wh, tan, lt brn, foss - partly oolitic, scat foss





pellets and hash, lt yel flour, abnt wh/gy cht, no stn or odor, no gas shows

LM; med gy brn, hd, cherty, tite

SH; med to dk gy, rare grn, platy to flakey

LM; tan to buff, lt brn, fxln to micritic, no vis por, scat gy/off wh cht, no fluor, ns.

SH; med gy, gy brn, some blk carb sh - coaly frags, lmy w/interbdd shaly lmst.

LM; lt brn, buff, lt gy brn, foss to finely pelletal, well cem, dull yuel min fluor, no stn, ns.

BASE KANSAS CITY 4736(-1993)

SLTST; pale grn, gy grn, firm, occ pyr, interbdd varic silty shales

MARMATON 4755(-2012)

LM; tan to cream, buff, fxln w/scat foss mat, interbdd foss off wh cht, minor chalky mtx, lt yel flour, no stn or odor, no gas kick, ns.

LM; off wh, buff, tan, foss ip w/scat pellets and foss hash, most well cem, poor interpart por, lt to occ med yel min fluor, no stn, ns.

SH; grn, gy grn, firm, occ foss

LM; tan to lt brn, buff, hd, micritic, occ cherty

LM; off wh, buff, v. foss w/scat hash and pellets, loosely cem, minor chalky mtx, interbdd cse xln lmst, lt yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, foss ip, well cem, interbdd hd micrite, no vis por, occ gy/off wh cht, dull yel min fluor, ns.

LM; tan to lt brn, hd, micritic to litho, scat dk gy to smoky cht, no vis por, ns.

SH; blk, carb ip, platy, blocky

PAWNEE 4834(-2091)

LM; off wh, wh, buff, fxln w/occ foss mat, much soft chalk and chalky mtx, poor to fair interxln/interpart por, v. dull to no fluor, few pcs. w/questionable gas bubbles, no odor, no vis oil stn, no cut

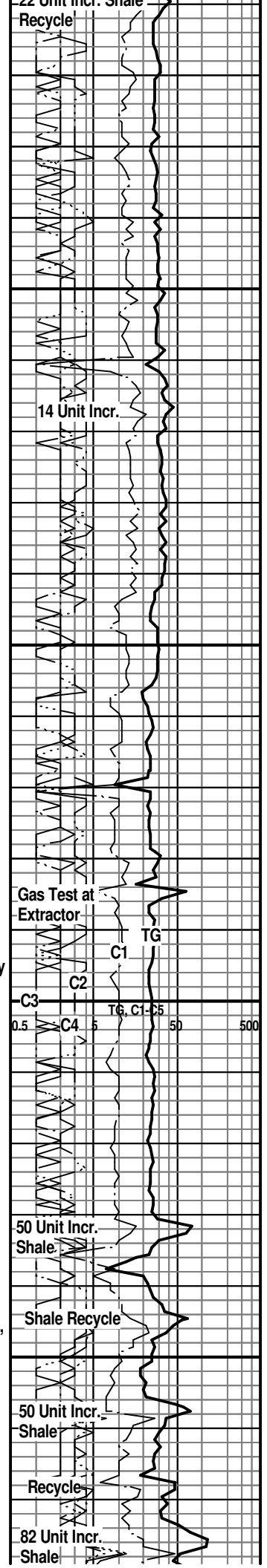
LM; lt to med brn, hd, cherty, tite

SH; blk, carb ip, gassy w/gas odor, pyr ip.

LM; med brn, foss ip, dense, no vis por, scat gy/amber cht, dull yel fluor, no stn or odor, ns.

CHEROKEE SHALE 4874(-2131)

LM; tan to buff, cream, foss ip, occ pyr, interbdd



MudCo. Mud
Check at 4893'
Vis 50 Wt. 9.25
WL 9.6 Cl 3100
PH 10.5 LCM 2#

Vis 56
Wt. 9.2
LCM 2#

Vis 52
Wt. 9.2
LCM 2#

A.V. = 151.10

DST #3
Straddle
4998' - 5016'
Corrected
Depths to
LOG

DST #1
Morrow / St.
Louis 'B'
5021' - 5065'
Corrected

DST #2
St. Louis 'C'
5066' - 5088'
Corrected

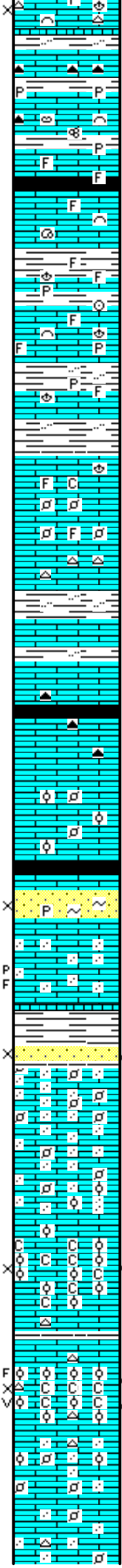
4900

4950

5000

5050

0



LM; tan to buff, cream, fross ip, poor to no vis interpart por, no fluor, no stn or odor, ns.
SH; grn, gy grn, grn, rust red, silty ip, firm
LM; dk brn, dk gy brn, occ amber cht, tite
SH; med to dk gy, gy grn, fiss, occ pyr

LM; off wh, lt to med brn, foss ip, well cem, dull yel min fluor, no stn or odor, ns.
SH; blk, platy, gassy ip.

LM; med gy brn, med gy, foss, hd, no vis por, dull yel min fluor, no stn, ns.

LM; med gy brn, med gy, v. shaly w/interbdd hd lmy shales, scat well cem foss mat, minor amts. of pyr, tite

SH; med grn, gy grn, silty, interbdd brn dense occ foss lmst,

LM; tan to lt brn, occ finely pelletal - well cem, micritic, no vis por, no fluor, no gas kick, no stn or odor, interbdd off wh/pale brn cht, ns.

SH; med gy, gy grn, silty ip, platy

LM; tan to cream, buff, fxl, most dense, micritic, no vis por, lt yel min fluor, n.s

SH; med to dk gy, gy grn, firm

LM; med to dk gy, blocky, dense, no vis por, scat blk/dk gy cht, tite

LM; lt brn, tan, occ gy brn, fxl, scat well cem foss mat, occ small pellets/ooids, hd, no vis por, dull to lt yel fluor, ns.

MORROW SST. 5006(-2263)
SS; lt gy, blk, f gr qtz, fri, clusters, lt yel fluor, blk hyy residual oil, shaly ss interbdd, fair por, gd cut, no odor, interbdd coaly frags, pyr ip.
LM; lt brn, occ blk tarry dead oil, poor p-p por, trc frags, lt/med yel fluor, no odor/ kick, fair cut
SS; lt gy to med brn, f gr qtz, clusters, much dk brn/blk residual oil, gd intergran por, some soft v. shaly ss interbdd, lt yel flour, gd cut, no odor

ST. GENEVIEVE 5029(-2286)
DST #3: Morrow Sst. Straddle Packer
4998' - 5016' Corrected Depths

LM; tan, lt brn, sandy to finely pelletal, scat med gr qtz in lmst mtx, hd, no fluor, no stn, ns.

ST. LOUIS 'B' 5048(-2305)
LM; wh, off wh, oolitic, chalky, poor to fair interooid por, scat dk live oil stn/blk tarry - dead oil, VSSFO., lt yel fluor, v. faint odor, weak cut

DST #1: Morrow - St. Louis 'B' 5021'- 5065' Corrected Depth to LOG

ST. LOUIS 'C' 5068(-2325)
LM; wh, off wh, tan, oolitic, med to occ lrg oolites, fair interpart w/some vug por, very chalky, spotted to even dk brn stn, strong oil odor, cht w/edge staining - trc frags, lt golden yel fluor, gd cut, SSFO, loose ooids in tray

DST #2: St. Louis 'C' 5066' - 5088' Corrected Depths to LOG

LM; lt gy brn, lt brn, sandy to finely pelletal lmst, well

Recycle

Recycle

25 Unit Incr. Shale

15 Unit Incr.

28 Unit Incr. Poss. Show

14 Unit Incr. SHOW

Recycle

8 Unit Incr. SHOW

5 Unit Incr. SHOW

BU./Trip Gas

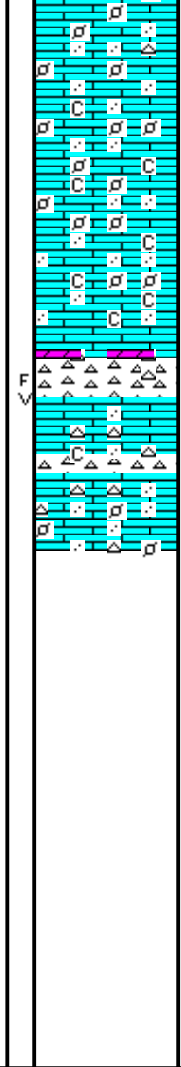
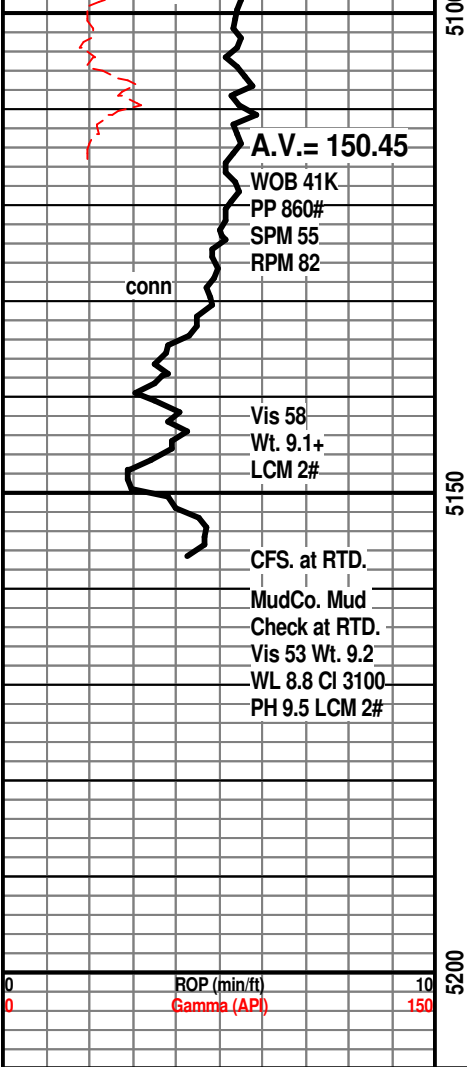
TG, C1-C5

C2

C1

C3

500



cem, scat med to cse subrnd clr qtz, occ gy cht, no vis por, no stn or odor, no fluor, ns.

LM; off wh, tan - lt brn, sandy to finely pelletal, abnt rnd multicolored foss pellets, interbdd wh chalk and chalky mtx, no fluor, no vis por, ns.

LM & CHT; lt brn, fxl n to sucrosic text, partly dolomitic, interbdd gy to off wh fresh cht, trc frags and vug por in cht, no fluor, no vis por, minor chalky mtx, no stn or odor, ns.

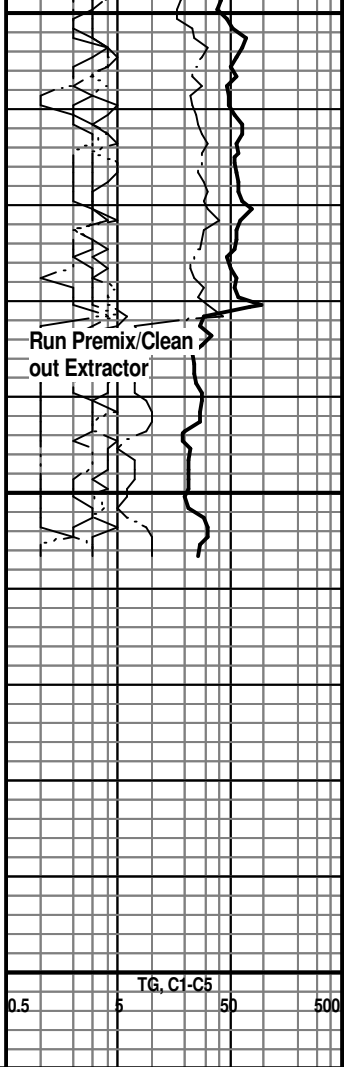
LM; tan to lt brn, sandy to finely pelletal, cherty ip, no vis por, no fluor, no stn, ns.

RTD. 5160' at 2:30 AM. 2/5/13

LTD. 5158'

Halliburton DIL, NEU/DEN, Microlog
 "Triple Combo"

NOTE: This log was shifted upward by 2' - 3' for correlation purposes with the Halliburton Logs.





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

WALT 785 623 1407

Test Ticket

NO. 51432

Well Name & No. Miller #3-12 Test No. 1 Date 02/03/13
 Company Herman L. Loebe, LLC Elevation 2743 KB 2731 GL
 Address PO Box 838 Lawrenceville, TL 62439
 Co. Rep / Geo. Jon Christensen Rig Stirling #5
 Location: Sec. 12 Twp. 27s Rge. 29w Co. Grey State Ks

Interval Tested 5024 - 5068 Zone Tested Morrow - St Gene
 Anchor Length 44' Drill Pipe Run 4693 Mud Wt. 9.2
 Top Packer Depth 5019 Drill Collars Run 330 Vis 53
 Bottom Packer Depth 5024 Wt. Pipe Run 0 WL 80
 Total Depth 5068 Chlorides 3100 ppm System LCM 2#
 Blow Description IF: 1/4" blow
IST: No return
FF: No blow
FST: No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|------|------|------------|------|
| <u>10</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 10 BHT 129 Gravity - API RW - @ - ° F Chlorides - ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2511</u> | <input checked="" type="checkbox"/> Test | T-On Location <u>1650</u> |
| (B) First Initial Flow <u>28</u> | <input checked="" type="checkbox"/> Jars | T-Started <u>1717</u> |
| (C) First Final Flow <u>29</u> | <input checked="" type="checkbox"/> Safety Joint | T-Open <u>2013</u> |
| (D) Initial Shut-In <u>76</u> | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u> | T-Pulled <u>2245</u> |
| (E) Second Initial Flow <u>32</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>0117 02/24/13</u> |
| (F) Second Final Flow <u>32</u> | <input checked="" type="checkbox"/> Mileage <u>145 RT</u> | Comments _____ |
| (G) Final Shut-In <u>50</u> | <input type="checkbox"/> Sampler | _____ |
| (H) Final Hydrostatic <u>2471</u> | <input type="checkbox"/> Straddle | <input type="checkbox"/> Ruined Shale Packer |
| | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Packer |
| Initial Open <u>15</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Extra Copies |
| Initial Shut-In <u>45</u> | <input type="checkbox"/> Extra Recorder | Sub Total _____ |
| Final Flow <u>30</u> | <input type="checkbox"/> Day Standby | Total _____ |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Accessibility | MP/DST Disc't _____ |
| | Sub Total _____ | |

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
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

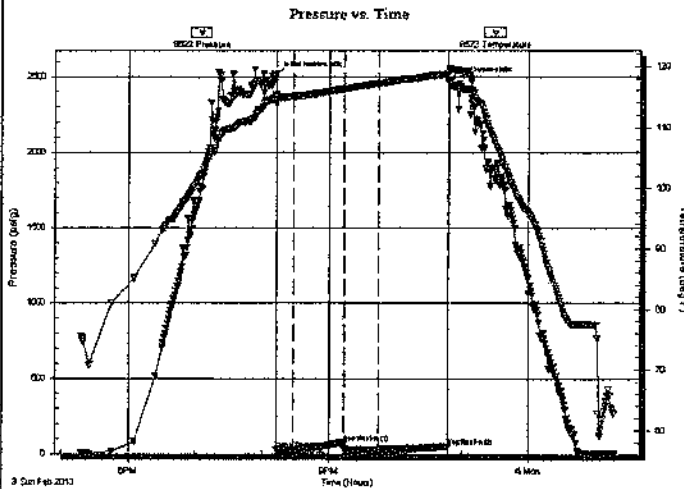
12 27s 29w Grey, Ks
Miller #3-12
 Job Ticket: 51432 DST#: 1
 Test Start: 2013.02.03 @ 17:17:30

GENERAL INFORMATION:

Formation: **Morrow - St Gere**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:13:00
 Time Test Ended: 01:18:00
 Interval: **5024.00 ft (KB) To 5068.00 ft (KB) (TVD)**
 Total Depth: 5068.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 2743.00 ft (KB)
 2731.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8522 Outside
 Press@RunDepth: 32.10 psig @ 5025.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.03 End Date: 2013.02.04 Last Calib.: 2013.02.04
 Start Time: 17:17:30 End Time: 01:18:00 Time On Btm: 2013.02.03 @ 20:12:45
 Time Off Btm: 2013.02.03 @ 22:48:00

TEST COMMENT: IF: 1/4" blow.
 IS: No return.
 FF: No blow.
 FSI: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2511.40 | 115.33 | Initial Hydro-static |
| 1 | 27.52 | 113.94 | Open To Flow (1) |
| 16 | 28.35 | 115.00 | Shut-in(1) |
| 61 | 76.41 | 116.30 | End Shut-in(1) |
| 61 | 32.27 | 116.28 | Open To Flow (2) |
| 92 | 32.10 | 117.22 | Shut-in(2) |
| 155 | 50.21 | 118.80 | End Shut-in(2) |
| 156 | 2471.49 | 119.43 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | mud 100m | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

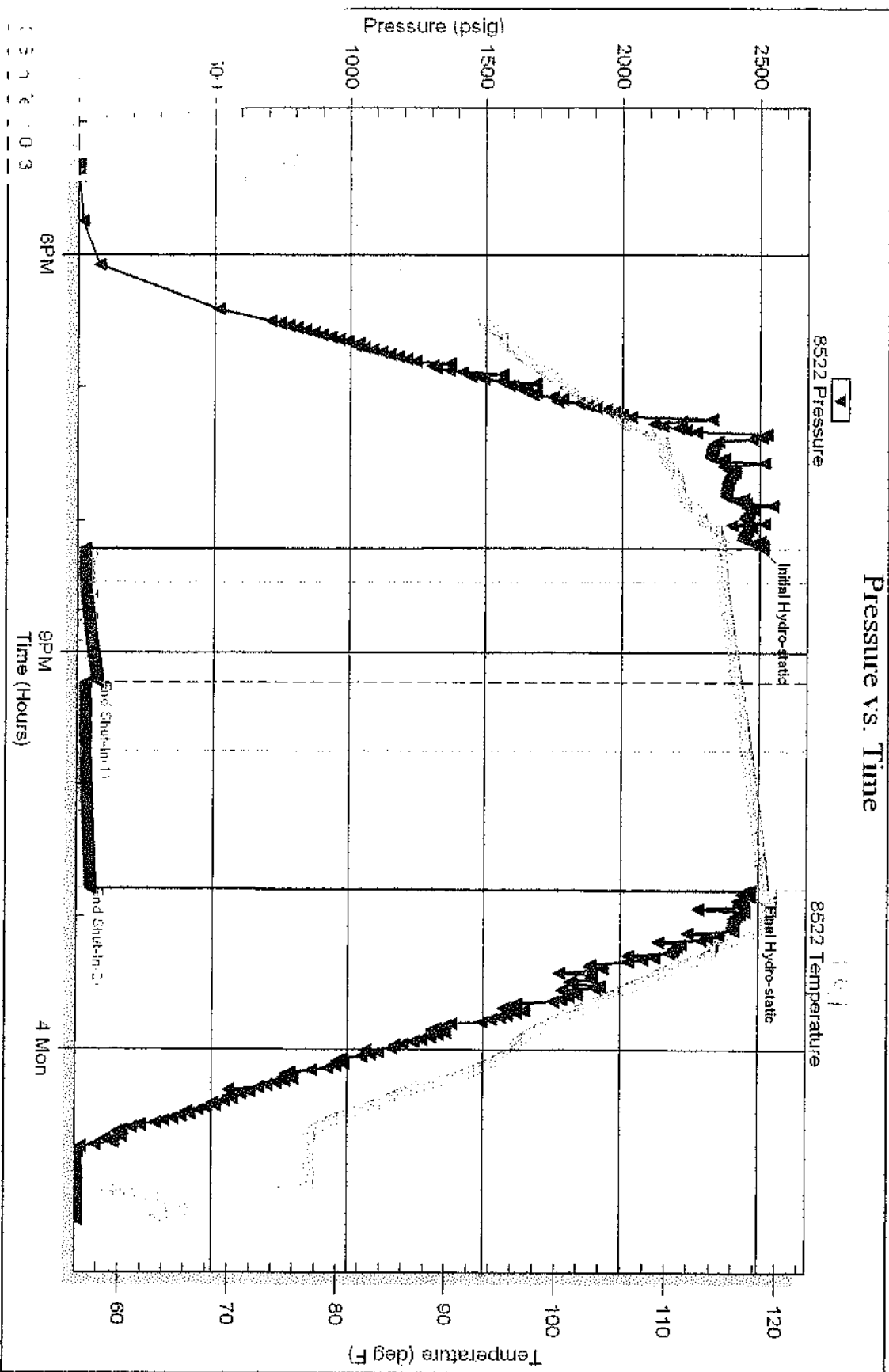
Serial #: 8522

Outside

Herman L Loeb, LLC

Miller #3-12

DST Test Number: 1



Ref. No: 51432

Printed: 2013.02.04 @ 01:31:18



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51433

4/10

Well Name & No. Miller #3-12 Test No. 2 Date 02/04/13
 Company Herman L Loeb, LLC Elevation 2743 KB 2731 GL
 Address PO Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling #5
 Location: Sec. 12 Twp. 27S Rge. 29W Co. Gray State Ks

Interval Tested 5069 5091 Zone Tested St Louis B
 Anchor Length 22' Drill Pipe Run 4716 Mud Wt. 9.2
 Top Packer Depth 5064 Drill Collars Run 330 Vis 61
 Bottom Packer Depth 5069 Wt. Pipe Run 8 WL 8.8
 Total Depth 5091 Chlorides 3300 ppm System LCM 3#

Blow Description TR: 1" blow
TSI: No return
FF: Surface blow, died @ 5 min.
FST: No return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|-------------------------|------|------|------------|------|
| <u>15</u> | <u>MUD (OTC SLOTS)</u> | | | <u>100</u> | |
| | <u>FREE OIL IN TOOL</u> | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 15 BHT 119 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2558 Test - T-On Location 0930
 (B) First Initial Flow 27 Jars - T-Started 0950
 (C) First Final Flow 31 Safety Joint - T-Open 1201
 (D) Initial Shut-In 56 Circ Sub N/C T-Pulled 1501
 (E) Second Initial Flow 34 Hourly Standby - T-Out 1720
 (F) Second Final Flow 39 Mileage 145 R/L Comments -
 (G) Final Shut-In 54 Sampler -
 (H) Final Hydrostatic 2493 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 30 Day Standby - Total -
 Final Shut-In 90 Accessibility - MP/DST Disc't -
 Sub Total -

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 of 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

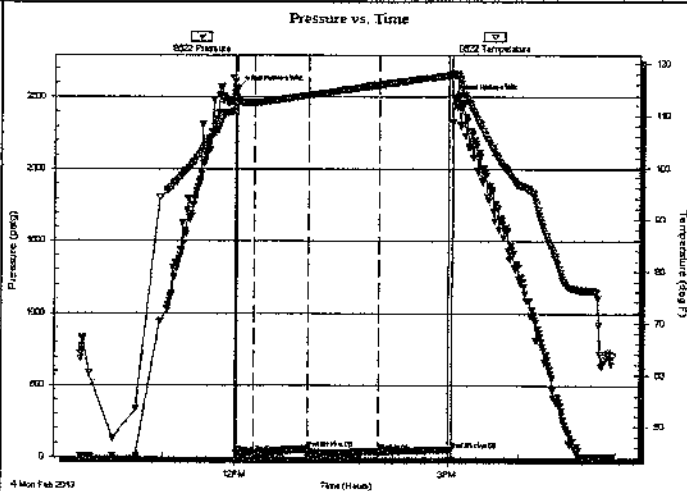
12 27s 29w Grey, Ks
Miller #3-12
Job Ticket: 51433 **DST#: 2**
Test Start: 2013.02.04 @ 09:50:00

GENERAL INFORMATION:

Formation: **St. Louis B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:01:45
Time Test Ended: 17:19:45
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 53
Interval: **5069.00 ft (KB) To 5091.00 ft (KB) (TVD)**
Reference Elevations: 2743.00 ft (KB)
Total Depth: 5091.00 ft (KB) (TVD) 2731.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8522 **Outside**
Press@RunDepth: 38.95 psig @ 5070.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.02.04 End Date: 2013.02.04 Last Calib.: 2013.02.04
Start Time: 09:50:00 End Time: 17:19:49 Time On Btm: 2013.02.04 @ 12:01:30
Time Off Btm: 2013.02.04 @ 15:04:30

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: Surface blow died @ 5 min.
FS: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2558.33 | 113.48 | Initial Hydro-static |
| 1 | 26.59 | 112.29 | Open To Flow (1) |
| 15 | 30.51 | 112.49 | Shut-in(1) |
| 60 | 55.64 | 113.92 | End Shut-in(1) |
| 61 | 33.69 | 113.92 | Open To Flow (2) |
| 120 | 38.95 | 115.99 | Shut-in(2) |
| 182 | 53.53 | 117.80 | End Shut-in(2) |
| 183 | 2493.04 | 117.86 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 15.00 | mud 100m (oil spots) | 0.07 |
| 0.00 | free oil in tool | 0.00 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

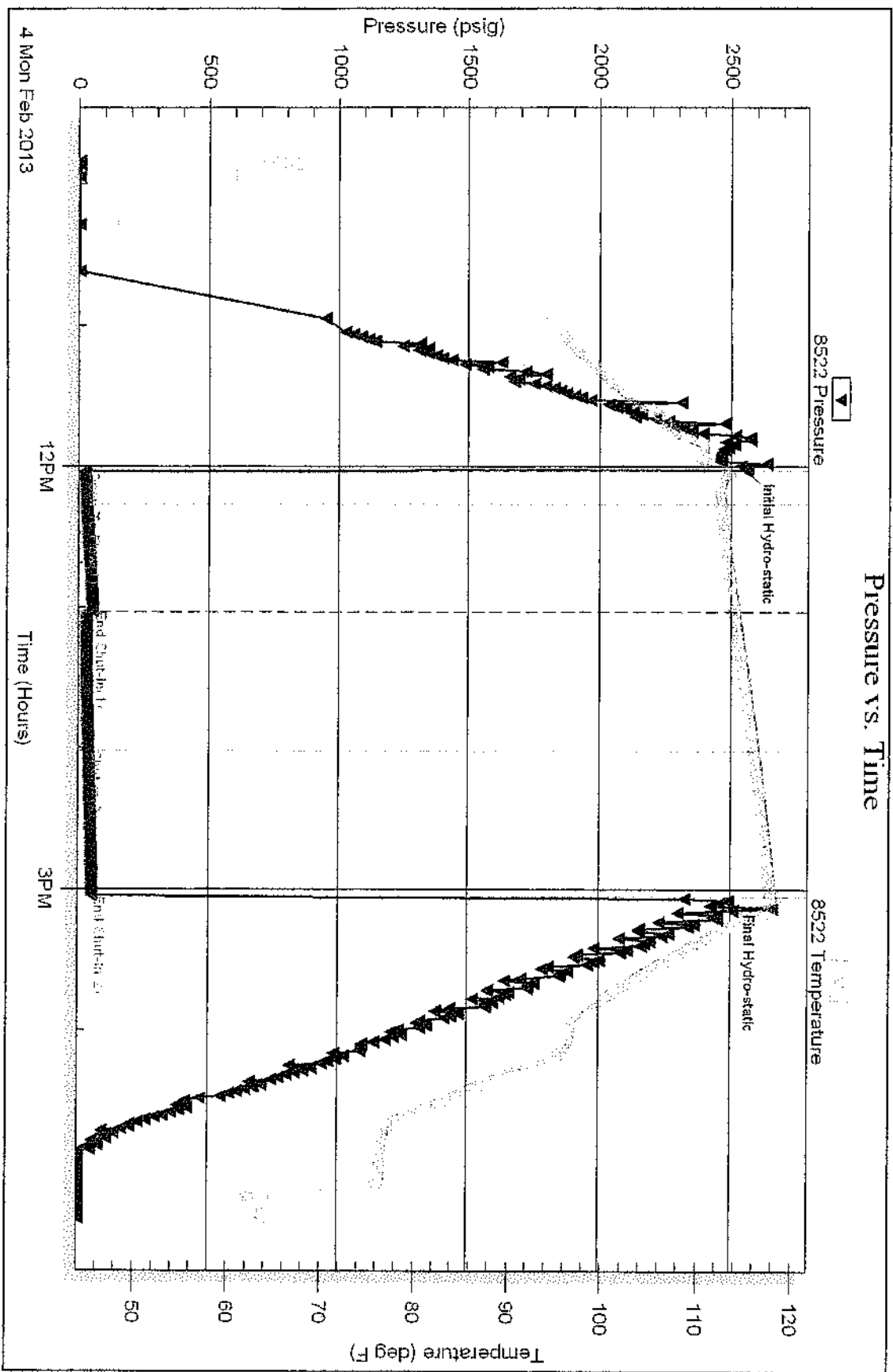
| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |

Serial #: 8522

Outside Herrman L. Loeb, LLC

Miller #3-12

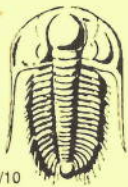
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 51433

Printed: 2013.02.04 @ 17:30:47



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51398

4/10

Well Name & No. Miller # 3-12 Test No. 3 Date 2/5/13
 Company Herman L. Loeb LLC Elevation 2743 KB 2731 GL
 Address P.O. Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. John Christenson Rig Sterling # 5
 Location: Sec. 12 Twp. 27S Rge. 29W Co. Grey State KS

Interval Tested 4998 - 5016 Zone Tested Morrow SST.
 Anchor Length 18' Drill Pipe Run 4668' Mud Wt. 9.3
 Top Packer Depth 4993 / 4998 Drill Collars Run 330' Vis 53
 Bottom Packer Depth 5016 Wt. Pipe Run 0' WL 8.4
 Total Depth 5160 Chlorides 2000 ppm System LCM 2
 Blow Description IF - Surface blow died @ 10 mins
ISI - No return
FF - No blow
FST - No return

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|------|------|------------|------|
| <u>15'</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 15' BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2498</u> | <input type="checkbox"/> Test _____ | T-On Location <u>12:30</u> |
| (B) First Initial Flow <u>22</u> | <input checked="" type="checkbox"/> Jars _____ | T-Started <u>13:26</u> |
| (C) First Final Flow <u>26</u> | <input checked="" type="checkbox"/> Safety Joint _____ | T-Open <u>15:49</u> |
| (D) Initial Shut-In <u>250</u> | <input checked="" type="checkbox"/> Circ Sub <u>NC</u> | T-Pulled <u>17:49</u> |
| (E) Second Initial Flow <u>25</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>20:43</u> |
| (F) Second Final Flow <u>25</u> | <input checked="" type="checkbox"/> Mileage <u>145 RT</u> | Comments _____ |
| (G) Final Shut-In <u>45</u> | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>2317</u> | <input checked="" type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Shale Packer _____ |
| | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Ruined Packer _____ |
| Initial Open <u>15</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Initial Shut-In <u>45</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total _____ |
| Final Flow <u>15</u> | <input type="checkbox"/> Day Standby _____ | Total _____ |
| Final Shut-In <u>45</u> | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total _____ | |

Approved By _____ Our Representative [Signature]

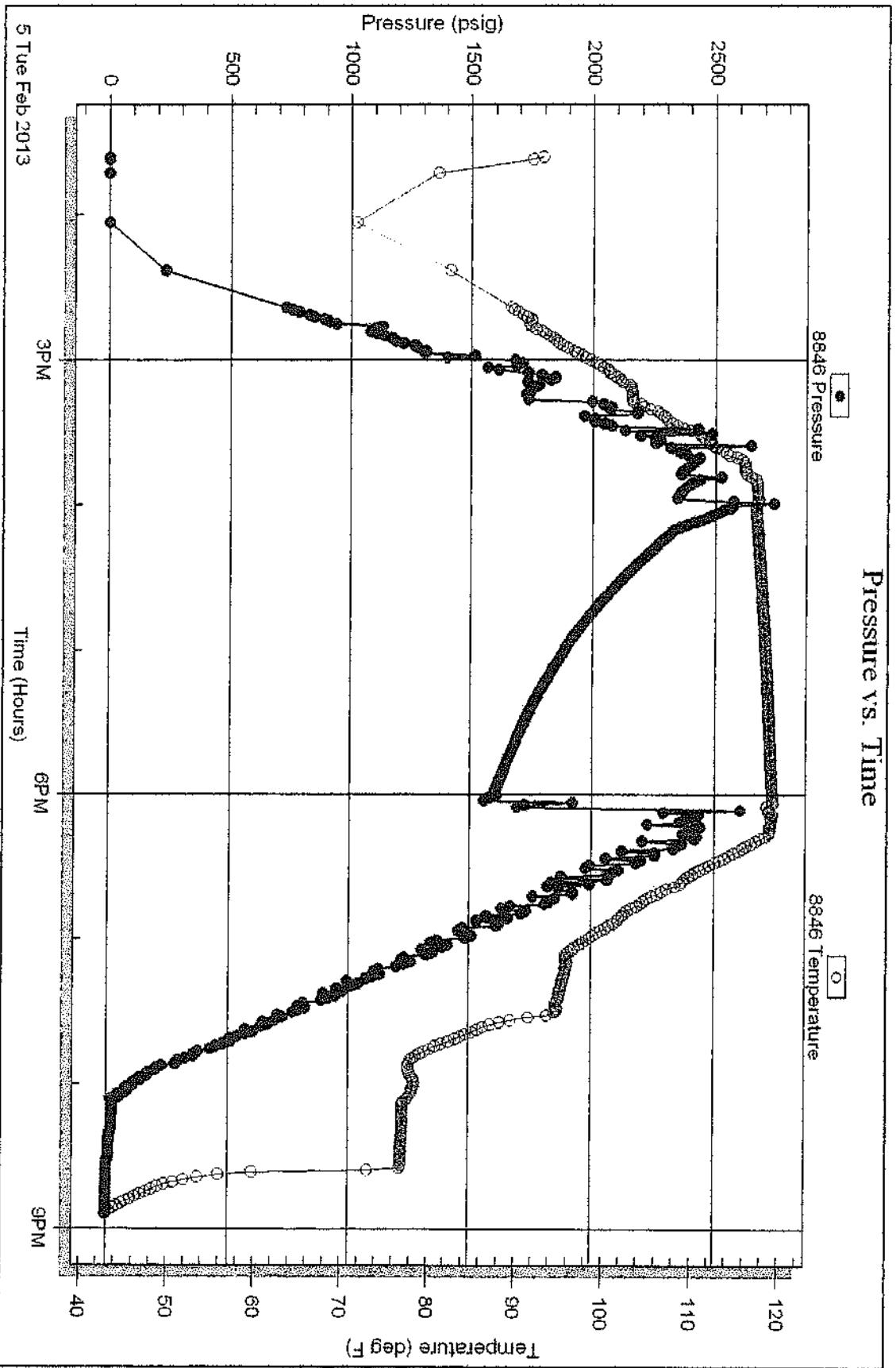
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost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

Serial #: 8846

Herman L. Loeb, LLC

Miller #3-12

DST Test Number: 3



Triobase Testing, Inc

Ref. No: 61398

Printed: 2013.02.05 @ 20:54:41

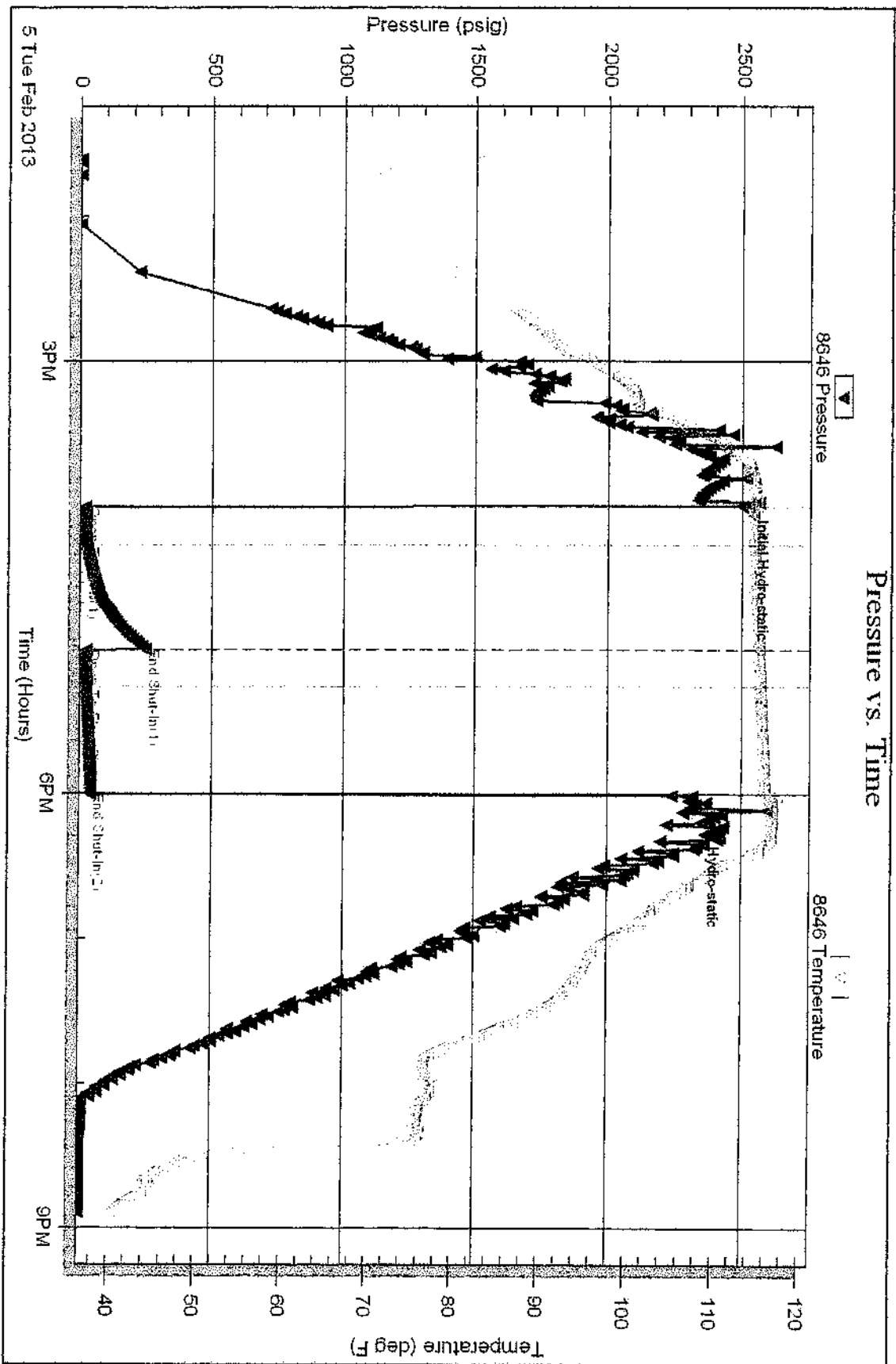
Serial #: 8646

Inside

Herrman L Loeb, LLC

Miller #3-12

DST Test Number: 3



TriLobite Testing, Inc

Ref. No: 51398

Printed: 2013.02.05 @ 20:54:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L. Loeb, LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

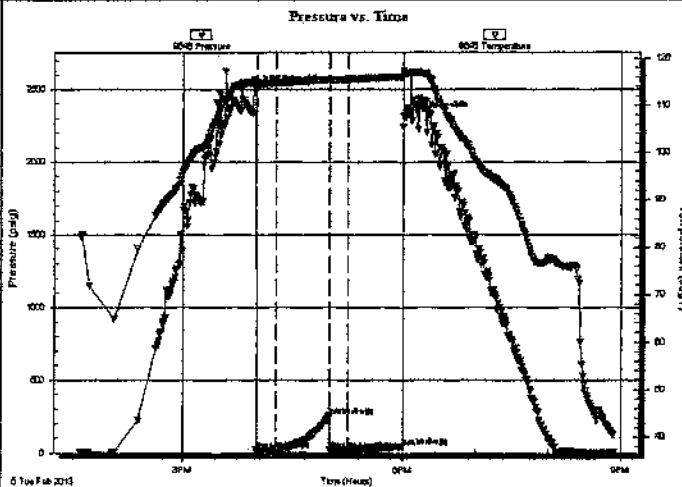
12 27s 29w Grey, Ks
Miller #3-12
 Job Ticket: 51398 **DST#: 3**
 Test Start: 2013.02.05 @ 13:36:00

GENERAL INFORMATION:

Formation: **Morrow SST.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:00:15
 Tester: Ryan Nichols
 Time Test Ended: 20:54:00
 Unit No: 65
 Interval: **4998.00 ft (KB) To 5016.00 ft (KB) (TVD)**
 Reference Elevations: 2743.00 ft (KB)
 Total Depth: 5160.00 ft (KB) (TVD)
 2731.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 12.00 ft

Serial #: 8646 **Inside**
 Press@RunDepth: 24.60 psig @ 5011.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.05 End Date: 2013.02.05 Last Calib.: 2013.02.05
 Start Time: 13:36:00 End Time: 20:54:00 Time On Btmr: 2013.02.05 @ 16:00:00
 Time Off Btmr: 2013.02.05 @ 18:00:30

TEST COMMENT: 15 IF - Surface blow died @ 10 mins
 45 ISl - No return
 15 FF - No blow
 45 FSI - No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2498.38 | 115.02 | Initial Hydro-static |
| 1 | 21.99 | 114.19 | Open To Flow (1) |
| 17 | 25.50 | 114.74 | Shut-In(1) |
| 60 | 249.52 | 115.38 | End Shut-In(1) |
| 60 | 25.38 | 115.27 | Open To Flow (2) |
| 75 | 24.60 | 115.50 | Shut-In(2) |
| 120 | 44.96 | 116.06 | End Shut-In(2) |
| 121 | 2316.92 | 116.70 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00 | Mud - 100% | 0.07 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



6438

| | | |
|-----------------|---------|--------------|
| PAGE | CUST NO | INVOICE DATE |
| 1 of 1 | 1007589 | 01/29/2013 |
| INVOICE NUMBER | | |
| 1717 - 91105116 | | |

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 Miller #3-12
 O LOCATION
 B COUNTY Gray
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

| JOB # | EQUIPMENT # | PURCHASE ORDER NO. | TERMS | DUE DATE |
|----------|-------------|--------------------|---------------|------------|
| 40558774 | 27462 | | Net - 30 days | 02/28/2013 |

For Service Dates: 01/28/2013 to 01/28/2013

0040558774

171703196A Cement-New Well Casing/Pi 01/28/2013
 8 5/8" Surface

| | QTY | U of M | UNIT PRICE | INVOICE AMOUNT |
|--|----------|--------|------------|----------------|
| A-Con' Blend | 455.00 | EA | 13.11 | 5,966.40 T |
| Premium Plus Cement | 150.00 | EA | 11.49 | 1,723.71 T |
| Calcium Chloride | 1,566.00 | EA | 0.74 | 1,159.22 T |
| Celloflake | 152.00 | EA | 2.61 | 396.49 T |
| C-51 | 86.00 | EA | 17.62 | 1,515.74 T |
| "Guide Shoe - Regular, 8 5/8"" (Blue)" | 1.00 | EA | 267.90 | 267.90 |
| "Flapper Ins. Fit. Vlv., 8 5/8"" (Blue) | 1.00 | EA | 197.40 | 197.40 |
| Antelope Strd Bow Cent. 8 5/8 X 12 1/4 | 4.00 | EA | 102.23 | 408.90 |
| "Cmt Basket, Canvas 8 5/8" | 1.00 | EA | 740.25 | 740.25 |
| "Top Rubber Cmt Plug, 8 5/8"" | 1.00 | EA | 158.62 | 158.62 |
| Sugar | 75.00 | EA | 3.52 | 264.37 T |
| Heavy Equipment Mileage | 180.00 | MI | 4.93 | 888.29 |
| Blending & Mixing Service Charge | 605.00 | BAG | 0.99 | 597.13 |
| "Proppant & Bulk Del. Chgs., per ton mil | 1,707.00 | EA " | 1.13 | 1,925.48 |
| Depth Charge; 1001'-2000' | 1.00 | EA | 1,057.49 | 1,057.49 |
| Plug Container Util. Chg. | 1.00 | EA | 176.25 | 176.25 |
| "Unit Mileage Chg (PU, cars one way)" | 60.00 | MI | 3.00 | 179.77 |
| "Service Supervisor, first 8 hrs on loc. | 1.00 | EA | 123.37 | 123.37 |

1001' - 2000'
1001' - 2000'

| | | | |
|---------------------------|-------------------------------|---------------|-----------|
| PLEASE REMIT TO: | SEND OTHER CORRESPONDENCE TO: | SUB TOTAL | 17,746.78 |
| BASIC ENERGY SERVICES, LP | BASIC ENERGY SERVICES, LP | TAX | 821.43 |
| PO BOX 841903 | 801 CHERRY ST, STE 2100 | INVOICE TOTAL | 18,568.21 |
| DALLAS, TX 75284-1903 | FORT WORTH, TX 76102 | | |



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 03196 A

DATE _____ TICKET NO. _____

| | | | | | | | | | | |
|--------------------------------------|-----|--|-----|-------------|-----|----------------------------|---------|----|----|------|
| DATE OF JOB F-28-13 DISTRICT 1717 | | 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 Lobe | | LEASE Miller #3-12 | | WELL NO. | | | | | | |
| ADDRESS | | COUNTY Gray | | STATE KS | | | | | | |
| CITY STATE | | SERVICE CREW J. Grigley, J. Lopez, E. Beruma | | | | | | | | |
| AUTHORIZED BY J. Bennett JRB | | JOB TYPE: 242 8 5/8" Surface | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME |
| 34726 | 8 | | | | | | 1-28-13 | | | 5:00 |
| 27462 | 8 | | | | | ARRIVED AT JOB | | | | 8:00 |
| 10276 | 3 | | | | | START OPERATION | | | | 1:00 |
| 19883 | 5 | | | | | FINISH OPERATION | | | | 2:00 |
| 14355 | 3 | | | | | RELEASED | | | | 4:00 |
| 37725 | 5 | | | | | MILES FROM STATION TO WELL | 60 | mi | | |

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: Alan Lopez
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| CU01 | A-Con | sk | 455 | | 8463.00 |
| CU10 | Premium Plus | sk | 150 | | 2445.00 |
| CU09 | Calcium Chloride | lb | 1066 | | 1644.00 |
| CU02 | Cemflake | lb | 153 | | 562.40 |
| CU30 | (5) | lb | 86 | | 2150.00 |
| CE253 | 8 5/8" - Shoe | ea | 1 | | 380.00 |
| CE1433 | Insert | ea | 1 | | 280.00 |
| CE2405 | Centralizer | ea | 4 | | 580.00 |
| CE4856 | Basket | ea | 1 | | 1050.00 |
| CE105 | Plug | ea | 1 | | 225.00 |
| CE131 | Sugar | lb | 75 | | 375.00 |
| PE01 | Heavy Equipment Mileage | mi | 180 | | 1260.00 |
| CE240 | Blending & Mixing Service | sk | 6005 | | 847.00 |
| EU3 | Propan + Bulk Delivery | ton | 1707 | | 2731.20 |
| CE202 | Pump Depth: 1001-2000' | hr | 1 | | 1500.00 |
| CE504 | Plug Container | ea | 1 | | 250.00 |
| EU00 | Unit Mileage | mi | 60 | | 255.00 |
| S003 | Service Supervisor | ea | 1 | | 175.00 |
| | | | | SUB TOTAL | 17,746.78 |

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

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

| | |
|--|---|
| SERVICE REPRESENTATIVE <u>Bill Owen</u> | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Alan Lopez</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT) |
|--|---|

FIELD SERVICE ORDER NO. _____



BASIC™
ENERGY SERVICES
Liberal, Kansas

Cement Report

| | | | | | |
|----------|---------------------|-----------|------|-------------------|----------|
| Customer | Herman Lobe | Lease No. | | Date | 1-28-13 |
| Lease | Miller | Well # | 3-12 | Service Receipt | 03196 |
| Casing | 8 5/8" 24# 1880' | County | Gray | State | KS |
| Job Type | 242- 8 5/8" Surface | Formation | | Legal Description | 12-27-29 |

| Pipe Data | | Perforating Data | | Cement Data |
|-----------------|--------------|------------------|--|----------------|
| Casing size | 8 5/8" 24# | Tubing Size | | Lead 455-sk |
| Depth | 1880' | Depth | | A-Con |
| Volume | Disp-117 bbl | Volume | | |
| Max Press | 1500# | Max Press | | Tail in 150 sk |
| Well Connection | TD-1885' | Annulus Vol. | | Class C |
| Plug Depth | ST-42' | Packer Depth | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------|-----------------|-----------------|--------------|------|--|
| 8:00 | | | | | on loc-site assessment - (circ on btm) |
| 8:05 | | | | | spot trucks - rig up |
| 10:30 | | | | | start csg + float equip |
| 12:00 | | | | | csg on btm, break circ. |
| 1:00 | | | | | Safety meeting / ISA |
| 1:30 | | | | | pressure test 2000# |
| 1:32 | 200 | | 239 | 5 | start mix + pump 455 sk A-Con |
| | | | | | 11.4 ppg - 2.95 H ₂ O |
| 2:10 | 100 | | 36 | 5 | switch to tail 150 sk Class C |
| | | | | | 14.8 ppg - 1.34 H ₂ O |
| 2:20 | 0 | | 0 | 5 | dep plug, disp csg |
| 2:30 | 1000 | | 105 | 2 | slow rate |
| 2:30 | 1500 | | 117 | 0 | land plug, float hold |
| | | | | | circ cm ₂ to surface |
| | | | | | job complete |

| | | | | |
|---------------|---------|----------|------------|------------|
| Service Units | 31726 | 27462 | 10216-1983 | 14355-3718 |
| Driver Names | A. Owen | G. Grier | J. Lopez | E. Brown |

 Customer Representative Station Manager Cementer



6076
70lemiller
6/38

| | | |
|-----------------------------------|--------------------|----------------------------|
| PAGE 1 of 1 | CUST NO 1007589 | INVOICE DATE 02/07/2013 |
| INVOICE NUMBER 1717 - 91112993 | | |

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 Miller #3-12
 O LOCATION
 B COUNTY Gray
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

| JOB # | EQUIPMENT # | PURCHASE ORDER NO. | TERMS | DUE DATE | |
|--|-------------|--------------------|---------------|------------|------------|
| 40562235 | 27462 | | Net - 30 days | 03/09/2013 | |
| For Service Dates: 02/06/2013 to 02/06/2013 | | | | | |
| 0040562235 | | | | | |
| 171703200A Cement-New Well Casing/Pi 02/06/2013 PTA | | | | | |
| 60/40 POZ | | 200.00 | EA | 9.60 | 1,920.00 T |
| Cement Gel | | 344.00 | EA | 0.20 | 68.80 T |
| Sugar | | 50.00 | EA | 4.00 | 200.00 T |
| Heavy Equipment Mileage | | 120.00 | MI | 5.60 | 672.00 |
| Blending & Mixing Service Charge | | 200.00 | BAG | 1.12 | 224.00 |
| "Proppant & Bulk Del. Chgs., per ton mil | | 516.00 | EA | 1.28 | 660.48 |
| Depth Charge; 1001'-2000' | | 1.00 | EA | 1,200.00 | 1,200.00 |
| "Unit Mileage Chg (PU, cars one way)" | | 60.00 | MI | 3.40 | 204.00 |
| "Service Supervisor, first 8 hrs on loc. | | 1.00 | EA | 140.00 | 140.00 |

| | | | |
|---------------------------|-------------------------------|---------------|----------|
| PLEASE REMIT TO: | SEND OTHER CORRESPONDENCE TO: | SUB TOTAL | 5,289.28 |
| BASIC ENERGY SERVICES, LP | BASIC ENERGY SERVICES, LP | TAX | 163.07 |
| PO BOX 841903 | 801 CHERRY ST, STE 2100 | INVOICE TOTAL | 5,452.35 |
| DALLAS, TX 75284-1903 | FORT WORTH, TX 76102 | | |



BASIC™
ENERGY SERVICES
Liberal, Kansas

Cement Report

| | | | | | |
|----------|----------------|-----------|------|-------------------|----------|
| Customer | Herman Lobe | Lease No. | | Date | 2-6-13 |
| Lease | Miller | Well # | 3-12 | Service Receipt | 03500 |
| Casing | 4 1/2" | Depth | | County | Gray |
| Job Type | 242-4 1/2" PIA | Formation | | State | KS |
| | | | | Legal Description | 12 27 29 |

| Pipe Data | | Perforating Data | | Cement Data |
|-----------------|--------------|------------------|----|--------------------------|
| Casing size | Tubing Size | Shots/Ft | | Lead 200 sk 60/40 Poz |
| Depth | Depth | From | To | |
| Volume | Volume | From | To | Tail in |
| Max Press | Max Press | From | To | |
| Well Connection | Annulus Vol. | From | To | |
| Plug Depth | Packer Depth | From | To | |

| Time | Casing Pressure | Tubing Pressure | Ebbs. Pumped | Rate | Service Log |
|------|-----------------|-----------------|--------------|------|----------------------------|
| 2:00 | | | | | on loc-site assessment |
| 2:05 | | | | | spot trucks- rig up |
| 2:30 | | | | | safety meeting / JSH |
| 3:00 | | | | | pressure test 10000# |
| 3:03 | | | | | circ hole @ 1900' |
| 3:07 | 100 | | 13.3 | 4 | mix + pump 50 sk 60/40 Poz |
| 3:13 | 100 | | 23.7 | 4 | disp balanced plug |
| 4:00 | | | | | circ hole @ 780' |
| 4:03 | 100 | | 13.3 | 4 | mix + pump 50 sk 60/40 Poz |
| 4:05 | 100 | | 7.8 | 4 | disp balanced plug |
| 4:30 | | | | | circ hole @ 330' |
| 4:33 | 100 | | -8 | 3 | mix + pump 30 sk 60/40 Poz |
| 4:35 | 100 | | 2.7 | 3 | disp balanced plug |
| 6:00 | | | | | circ hole @ 60' |
| 6:05 | 100 | | 5.3 | 3 | mix + pump 20 sk 60/40 Poz |
| 6:15 | | | | | circ cement to surface |
| 6:30 | | | | | plug rat hole w/ 30 sk |
| 6:45 | | | | | plug mouse hole w/ 20 sk |
| | | | | | job complete |

| | | | | | | |
|---------------|-----------|-----------|-----------|-------|--|--|
| Service Units | 34726 | 27462 | 30463 | 37725 | | |
| Driver Names | A Olivera | J Griplwa | H Rutanga | | | |

Allen Customer Representative
 J Bennett Station Manager
 A Olivera Cementer