



**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: \_\_\_\_\_



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

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

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Carr #2-34  
Location: 1062' FNL & 1147' FWL, Sec. 34-T21S-R16W, Pawnee Co., KS.  
Licence Number: 15-145-21689-0000 Region: Larned Field  
Spud Date: 10/9/2012 Drilling Completed: 10/17/2012  
Surface Coordinates: 1062' FNL & 1147' FWL, Sec. 34-T21S-R16W

Bottom Hole Same as above  
Coordinates:  
Ground Elevation (ft): 1991' K.B. Elevation (ft): 2002'  
Logged Interval (ft): 3150 To: 4538' Total Depth (ft): 4538'  
Formation: Granite Wash at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 2984'; Chemical Gel 2984' to 4538'  
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) 3508' - 3544' Test Times 15"-45"-45"-90" IFP Weak Blow built to Fair 3.5" Blow, FFP Fair 7" Blow, no Blowback on SI's; REC: 200' Gas in Pipe, 50' OCM(10%O, 90%M), 30' GO & WCM(10%G, 15%O, 20%W, 55%M) CI 33,000, Mud CI 6000; IFP 15-27#, ISIP 1077#, FFP 31-46#, FSIP 1028#, IHP 1714#, FHP 1714#, BHT 107 Deg. F.

DST #2(Arbuckle) 3772' - 3855' Test Times 10"-30"-10"-30" IFP Strong Blow BOB/1 Min., FFP Strong Blow BOB/2 Min., 7" Blowback on FSI; REC: 370' Gas in Pipe, 490' GWOCM(10%G, 25%O, 25%W, 40%M), 770' GOCMW(5%G, 20%O, 55%W, 20%M), 420' GMW(5%G, 90%W, 5%M), CI 37,000, Mud CI 6500; IFP 476-692#, ISIP 1190#, FFP 724-881#, FSIP 1192#, IHP 1903#, FHP 1733#, BHT 117 Deg. F.

### Comments


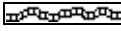
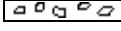
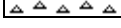
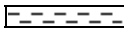







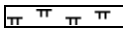

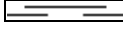
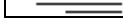
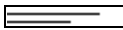


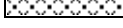
10/9/12 MIRU Sterling Rig #2, Spud at 8:30 PM.; 10/10/12 Drilling at 774'; 10/11/12 TD. 1011' - Drilling Cement Plug; 10/12/12 Drilling at 2347'; 10/13/12 Drilling at 3080'; 10/14/12 TD. 3544' - DST #1; 10/15/12 Drilling at 3810'; 10/16/12 Drilling at 4025'; 10/17/12 RTD. 4538' - Short Trip for Logs

Set new 8 5/8" 23# Surface Casing at 1006' w/ 400 sx.(Basic Energy Services). Cement did Circulate. PD. 5:30 PM. 10/10/12.




















































Surveys: 0.5 Deg. at 1011'(Surface Casing); 0.75 Deg. at 3544'(DST #1); 1 Deg. at 3855'(DST #2); Deg. at 4538' RTD.

Pipe Strap at 3544'(DST #1): Strap 0.84 Long to the Board, no correction made to the Board.
























### 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

<b>MINERAL</b>  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	<b>FOSSIL</b>  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom  <b>STRINGER</b>  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg  <b>TEXTURE</b>  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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### OTHER SYMBOLS

<b>POROSITY</b>  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy  <b>SORTING</b>  Well  Moderate  Poor	<b>ROUNDING</b>  Rounded  Subrnd  Subang  Angular  <b>OIL SHOW</b>  Even	 Spotted  Ques  Dead  <b>INTERVAL</b>  Core  Dst	<b>EVENT</b>  Rft  Sidewall
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**Curve Track 1**

ROP (min/ft) ———

Gamma (API) - - - - -

ROP (min/ft) 10  
Gamma (API) 150

conn

A.V.= 120.05

WOB 37-38K  
PP 900#  
SPM 60  
RPM 70  
conn

ROP (min/ft) 10  
Gamma (API) 150

conn

MudCo. Mud  
Check at 3208'  
Vis 48 Wt. 8.7  
WL 10.0 CI 12800  
PH 10.5 LCM Trc.

conn

WOB 38K  
PP 810#  
SPM 56  
RPM 72  
conn

A.V.= 120.00

Depth

Porosity Type

Lithology

Oil Shows

Geological Descriptions

TG, C1-C5

TG (Units) ———

C1 (units) - - - - -

C2 (units) . . . . .

C3 (units) . . . . .

C4 (units) . . . . .

C5 (units) . . . . .

HERMAN L. LOEB, LLC.

CARR #2-4

GEOLOGICAL REPORT

KB. 2002'

**10' Wet and Dry Samples**

LM; tan to lt brn, foss ip, scat fair interpart por, minor soft chalky mtx, spotty lt yel min fluor, no stn or odor, ns.

LM; off wh, lt gy, buff, fxln, scat poor vis interxln por, interbdd hd gy micrite, occ dull yel min fluor, no stn or odor, ns.

LM; med brn, blocky, hd, micritic

LM; off wh, buff, f to med xln, fair to occ gd interxln por, minor soft chalky mtx, dull to lt yel min fluor, no stn or odor, ns.

SH; blk, platy, smooth

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

LM; lt to med brn, gy brn, most dense, blocky, scat gy to amber occ foss cht, no vis por, no fluor, ns.

LM; tan to buff, med to cse xln, fair to gd interxln por, lt yel fluor, no stn or odor, ns.

LM; med brn, gritty to fxln, most well cem, scat foss mat, lt yel min fluor, no stn, ns.

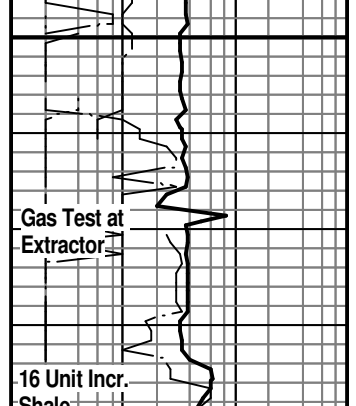
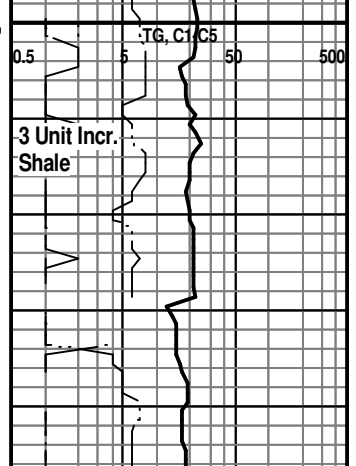
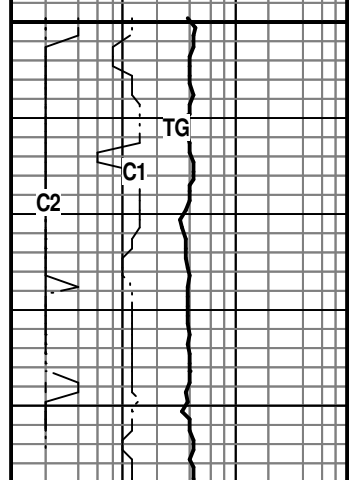
SH; med gy, grn, foss ip, platy

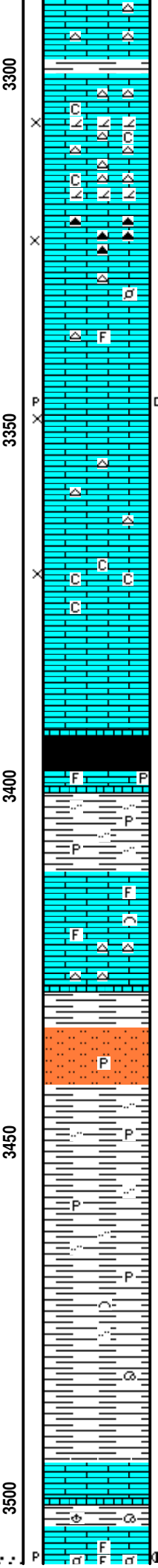
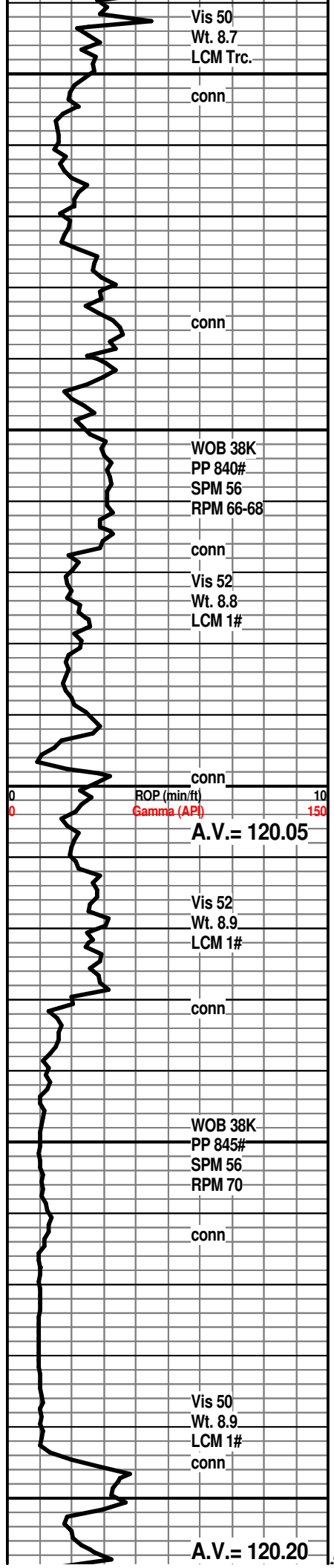
LM; med gy brn to dk brn, hd, micritic, tite

**QUEEN HILL SHALE 3284(-1282)**

SH; blk, carb ip, platy, trc gas, trc pyr

TG, C1-C5  
0.5 5 50 500





LM; lt to med xn, med to micritic, scat gy to tan cht, no vis por, spotty lt yel min fluor, no stn or odor, ns.

LM; off wh, tan, buff, med to occ cse xln, some interbdd dolomitic lmst, cherty w/off wh, tan to lt gy cht, scat lt yel min fluor, minor soft chalky mtx, no stn or odor, ns.

LM; tan to lt brn, f to med xln, some gran text, fair interxln por, interbdd dk gy/smoky/blk cht, dull yel to no fluor, ns.

LM; tan to cream, buff, fxln, scat fair interxln w/occ p-p por, few pcs w/blk tar/gilsonite, dead oil, no live shows, no odor, weak/no cut

LM; off wh, wh, cream, fxln, much chalk and chalky mtx, soft ip, fair interpart por ip, no fluor, no stn or odor, ns.

**HEEBNER SHALE 3393(-1391)**  
SH; blk, carb ip, platy, trc gas  
LM; med brn, gy brn, dense, foss ip, pyr.

SH; grn, gy grn, silty, firm, occ pyr.

**TORONTO 3412(-1410)**  
LM; off wh, wh, buff, fxln, scat well cem foss mat, hd, rare off wh cht, much med yel min fluor, interbdd hd gy micrite, no stn or odor, no gas kick, ns.

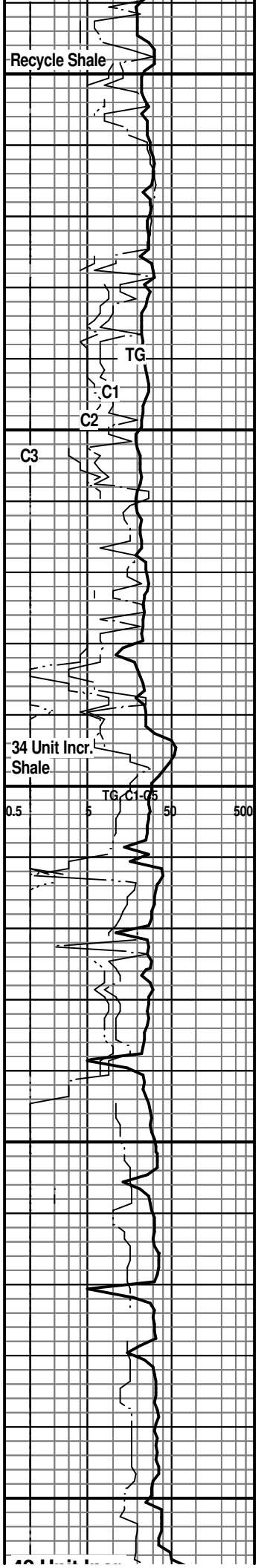
**DOUGLAS SHALE 3429(-1427)**  
SH; lt to med gy, silty, platy  
SLTST; lt gy, rarely med gy, firm, platy

SH; lt to med gy, silty ip, occ pyr, firm

SH; med gy, firm, fiss to flakey, rarely foss

**BROWN LMST. 3495(-1493)**  
LM; med brn, dense, micritic, blocky

**LANSING 'A' 3504(-1502)**  
LM; lt/med gy, tan, foss - finely pelletal, fair p-p and occ



**DST #1**  
**Lansing "A"**  
 + "B" zones  
 conn 3508' - 3544'

Vis 54  
 Wt. 8.9  
 LCM 1#

CFS. at 3544'  
 MudCo. Mud  
 Check at 3544'  
 Vis 51 Wt. 9.2  
 WL 8.4 CI 6000  
 conn PH 10.5 LCM 1#

WOB 38K  
 PP 920#  
 SPM 56  
 RPM 70

conn

ROP (min/ft) 10  
 Gamma (API) 150

Vis 50  
 Wt. 9.2  
 LCM 1#

A.V.= 120.20

conn

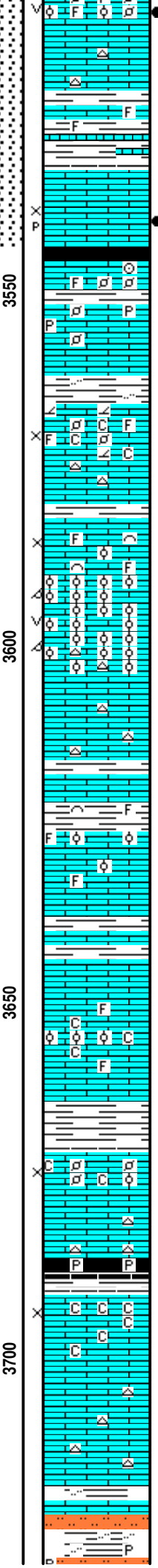
conn  
 Vis 50  
 Wt. 9.2  
 LCM 1#

WOB 38K  
 PP 975#  
 SPM 56  
 RPM 70

conn

Vis 53  
 Wt. 9.2  
 LCM 1#

conn



vug por, med/brite yel fluor, 1rc. FO, gd odor, spotted to even lt brn stn, few gas bubbles, some bleeding oil, gd cut

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

SH; med gy, grn, interbdd hd foss lmst strngs.

**LANSING 'B' 3533(-1531)**

LM; tan to cream, f to med xln, fair interxln w/p-p por, med/brite yel fluor, fair odor, Trc. FO, trc gas, most w/even med brn stn, fair to gd cut

**DST #1: Lansing 'A'+ 'B' 3508' - 3544'**

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

LM; tan to lt brn, foss, scat foss frags w/occ pelletal lmst, minor soft chalky mtx, dull to lt yel min fluor, no stn or odor, ns.

SH; med gy, grn, silty ip, firm

LM; off wh, tan, cream, foss, fair interpart por, partly sucrosic text - dolo ip, scat soft chalky mtx ip, interbdd gy to off wh cht, dull yel min fluor, no stn or odor, ns.

**LANSING 'G' 3582(-1580)**

LM; tan to off wh, buff, foss - partly oolitic, most well cem, poor interpart por, no stn, ns.

LM; off wh, tan - buff, oolitic, most med to occ lrg moldic por, scat vug por also, occ chalk and chalky mtx, no fluor, no stn or odor, scat off wh to gy oolitic cht, ns.

LM; tan to buff, off wh, most dense, blocky, scat off wh cht, tite

LM; med brn, hd, foss ip, tite

**KANSAS CITY 'H' 3626(-1624)**

LM; tan to cream, foss ip, rarely oolitic, most well cem, dull yel min fluor only, no stn or odor, ns.

SH; med gy grn, platy

LM; off wh, buff, f to med xln, scat soft chalky mtx, poor interpart por, interbdd foss lmst w/wscat small oolites, chalky, dull yel fluor, ns.

SH; med gy, grn, trc dk gy, platy

**KANSAS CITY 'J' 3671(-1669)**

LM; tan to off wh, wh, f to med xln, scat foss w/small pellets, most well cem, minor soft chalky mtx, poor/no vis por, no stn or odor, ns.

LM; tan to cream, buff, hd, micritic, cherty, tite

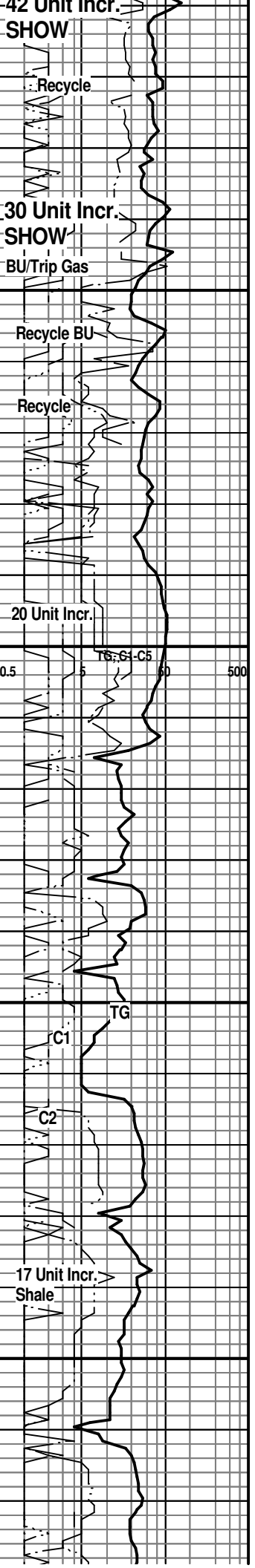
SH; blk, platy, pyr ip.

LM; wh, off wh, fxln, v. chalky at top, poor interxln por, no fluor, ns.

LM; tan to buff, rare lt brn, blocky, hd, no vis por, scat off wh to gy cht, tite

**BASE KANSAS CITY 3718(-1716)**

SH and SLTST; lt gy, some varic sh, soft, silty, occ pyr



42 Unit Incr. SHOW

30 Unit Incr. SHOW

BU/Trip Gas

Recycle BU

Recycle

20 Unit Incr.

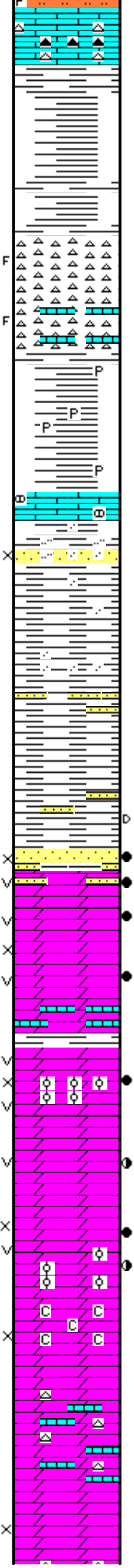
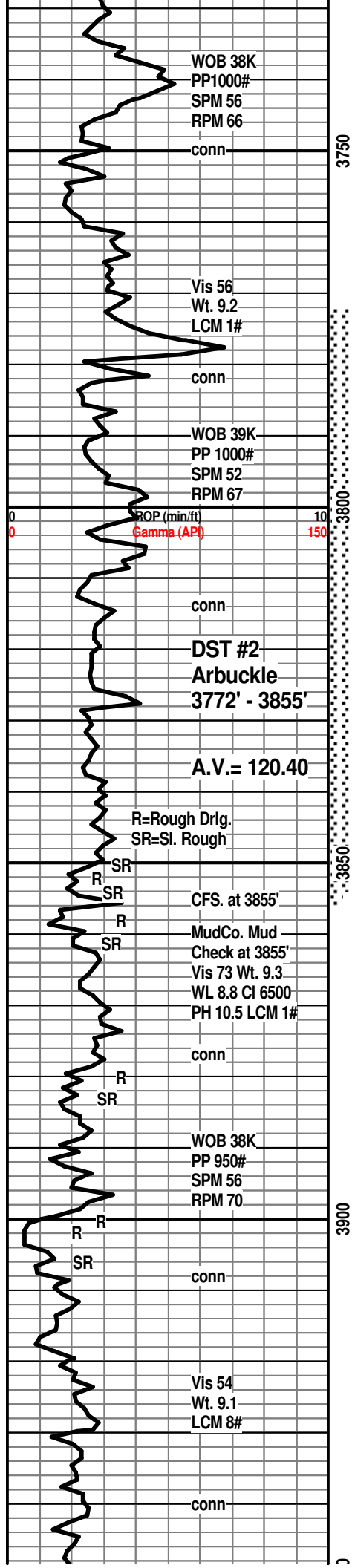
TG: G1-C5

TG

C1

C2

17 Unit Incr. Shale



**MARMATON 3730(-1728)**  
LM; lt brn, tan, most dense, cherty ip w/brn to org cht, hd, no vis por, no fluor, ns.

SH; varic, grn, yel, rust red, fiss to flakey

SH; varic, grn, gy, red, yel, fiss

**CONGLOMERATE 3761(-1759)**  
CHT; varic, org, brn, gy, most hd-sharp, fresh, trc frags, interbdd nodular weathered lmst - pink to red, no stn or odor, no gas kick

SH; varic, grn, maroon, mauve, gy, fiss, scat pyr

LM; red brn, off wh, nodular, weathered appear.

**SIMPSON SHALE 3802(-1800)**  
SH; med grn, gy grn, some dk gy/blk, carb ip, silty to sandy, interbdd f to med gr clr qtz ss clusters, fair to gd intergran por, no stn or odor, ns.

SH; med grn, gy grn, silty to sandy, interbdd dk gy/blk carb sandy shales

SH; sea grn to turquoise, platy, waxy ip, sandy, interbdd med to cse gr qtz occ ss, blk tar/gilsonite, some live stn - SFO, gd odor

**ARBUCKLE 3851(-1849)**  
DOL; tan, buff, sucrosic to med rhombic, sandy ip, lmy/dense ip, strong odor, vug por, GSFO, few gas bubbles, even lt brn stn, brite yel fluor

**DST #2: Arbuckle 3772' - 3855'**  
DOL; tan to buff, med rhombic, scat well dev. vug and interxln por, brite yel fluor, SFO, strong odor, gd to exc. cut, interbdd hd lmy dolo

SH; brite grn, turquoise, platy

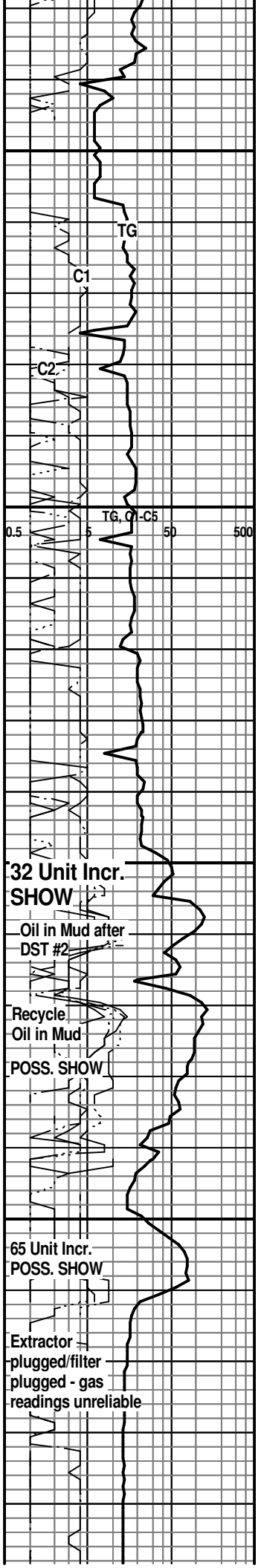
DOL; off wh, tan, buff, med to occ cse rhombic, gd interxln w/vug por, most w/even med brn stn, med to brite yel fluor, SFO, strong odor, interbdd altered oolitic lmy/dolo

DOL; tan to buff, med rhombic, some lmy, scat med brn stn, vug por, some tite

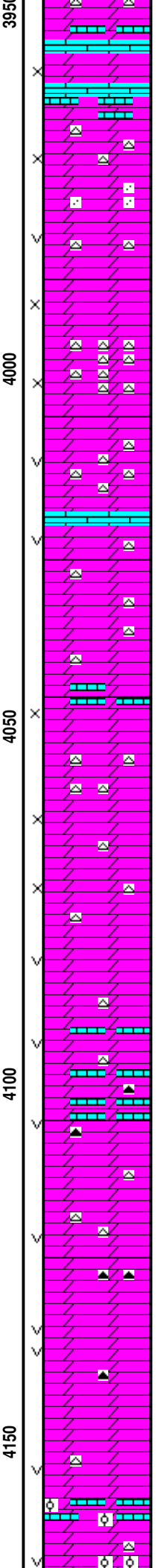
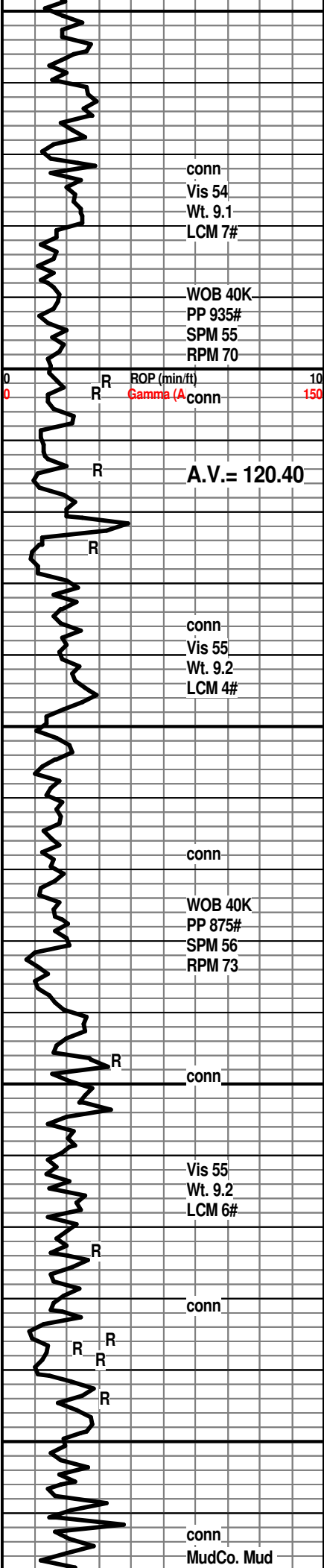
DOL; lt brn, sucrosic, v. gd interxln w/occ vug por, most w/even oil stn to occ saturation, brite yel fluor, strong odor, gd cut, SFO, interbdd wh oolitic dolo.

DOL; off wh, buff, sucrosic, soft ip, gd interxln por, interbdd soft chalk and chalky dolo, decr. in staining/faint odor

DOL; tan to buff, off wh, finely rhombic, lmy, scat wh to off wh cht, no stn, faint odor, fair interxln w/occ vug por, med yel min fluor, ns.







DOL; off wh, tan to lt brn, sucrosic to finely rhombic, scat off wh oolitic cht, interbdd med brn hd lmy dolo and dolo. lmst, med yel min fluor, no stn or odor, ns.

DOL; tan to lt brn, sucrosic to fine rhombic, rare med gr qtz in dolo, rare off wh oolitic cht, med yel min fluor, fair interxln w/rare vug por, no stn or odor, ns.

DOL; tan to lt brn, sucrosic to fine rhombic, abnt wh fresh cht, med yel min fluor, fair interxln por, no stn or odor, ns.

DOL; lt to med brn, sucrosic to f rhombic, cherty, scat transl. qtz xtals, vug por, med yel min fluor, ns.

LM; med brn, dense, micritic, cherty

DOL; lt brn, off wh, med rhombic w/well dev. vug por, cherty ip w/occ wh fresh cht, med yel min fluor, ns.

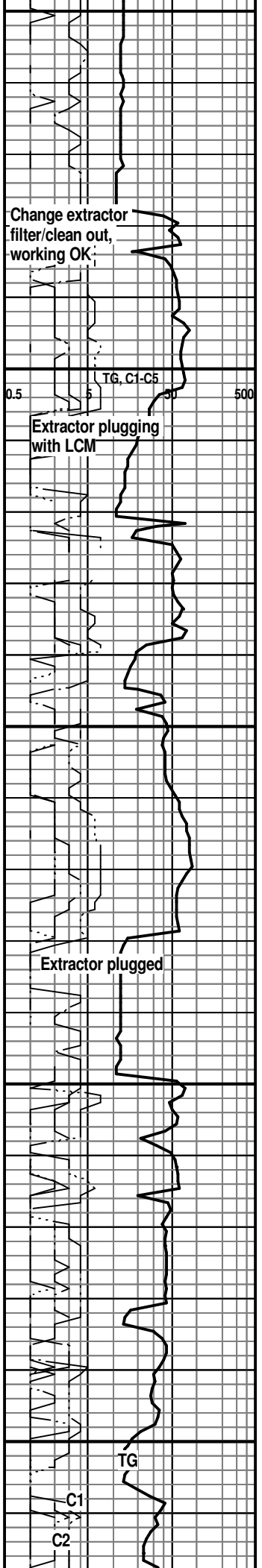
DOL; tan to lt brn, sucrosic to fine rhombic, scat hd lmy dolo/dolo lmst, cherty ip, occ soft chalky mtx, fair to gd interxln por, med yel fuor, faint sulfur odor, ns.

DOL; tan to buff, occ lt gy, most med rhombic w/gd interxln and vug por, scat off wh cht, interbdd csely rhombic dolo w/well dev. vug por, med yel fluor, ns.

DOL; tan to buff, f to med rhombic, interbdd hd lmy dolo/dolo lmst, occ cherty w/occ amber to org, scat transl. qtz xtals, sli. sulfur odor, med yel min fluor, ns.

DOL; lt to med brn, med rhombic, some rnd rhombs, not qtz gr, v. gd vug por w/lrg pore throats, med yel fluor, scat lrg opaque calc xtals, ns.

DOL; lt brn, tan, med rhombic, lmy ip, scat oolitic lmy dolo, some tite, interbdd well dev. vug por, rare off wh cht, ns.



Check at 4172'  
Vis 52 Wt. 8.8  
WL 8.8 CI 3800  
PH 9.5 LCM 8#

conn

ROP (min/ft) 10  
Gamma (AP) 150

WOB 40K  
PP 875#  
SPM 53  
RPM 65-75

conn

Vis 51  
Wt. 8.9  
LCM 8#

conn

WOB 40K  
PP 925#  
SPM 53  
RPM 66

conn

A.V. = 120.40

Vis 54  
Wt. 8.9  
LCM 11#

conn

conn  
WOB 38K  
PP 800#  
SPM 56  
RPM 68

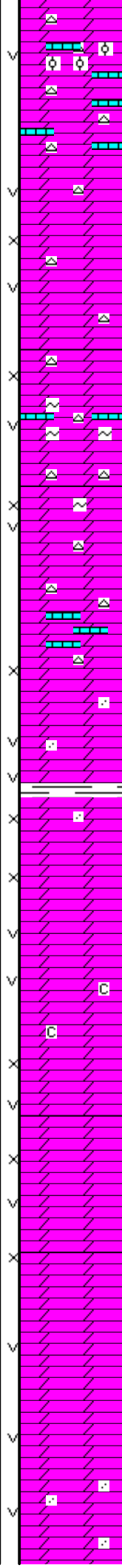
conn

4200

4250

4300

4350



DOL; off wh, tan, lt brn, most med to occ cse rhombic, scat lrg vug por, occ wh oolitic cht, lmy - tite ip, v. dull yel min fluor, no stn or odor, ns.

DOL; lt to med brn, off wh, med rhombic w/gd interxln and vug por, lrg pore throats, scat lt to med yel min fluor, rare wh to off wh oolitic cht, no stn or odor, ns.

DOL; tan to lt brn, rare med brn, sucrosic to med rhombic, scat gd interxln w/vug por, med yel min fluor, occ cherty, rare transl. qtz xtals, no stn or odor, interbdd off wh to lt gy partly lmy glau dolo, ns.

DOL; off wh, lt gy, rare tan, fine to med rhombic, gd interxln and occ vug por, scat off wh/wh cht, med yel min fluor, interbdd hd dolomitic lmst, no stn or odor, ns.

DOL; wh, off wh, med rhombic, minor soft chalky mtx, v. gd interxln and vug por, med yel fluor, rare clr med gr qtz in mtx. ns.

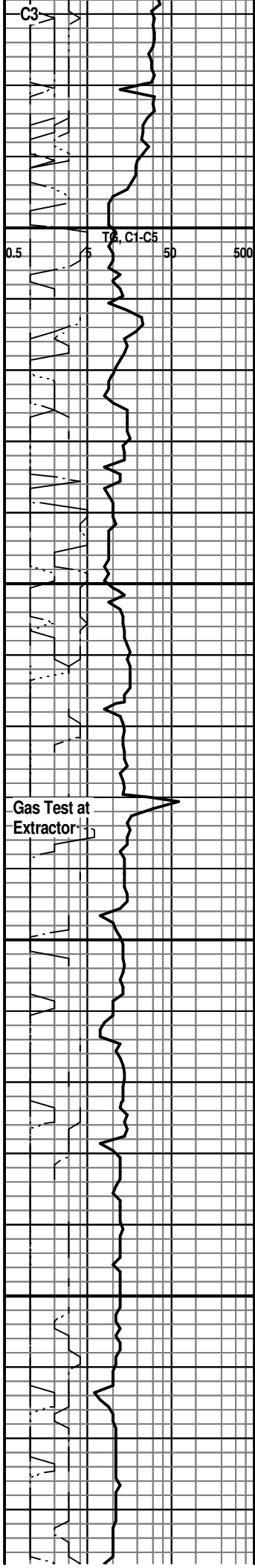
SH; brite grn, platy

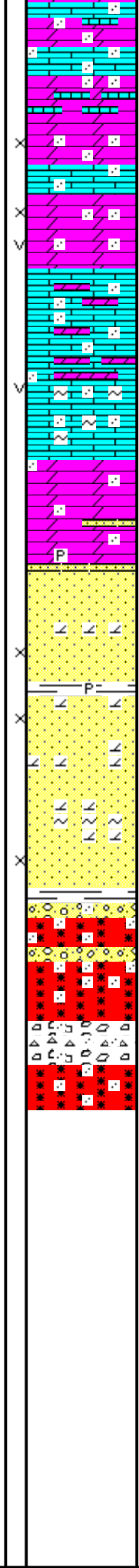
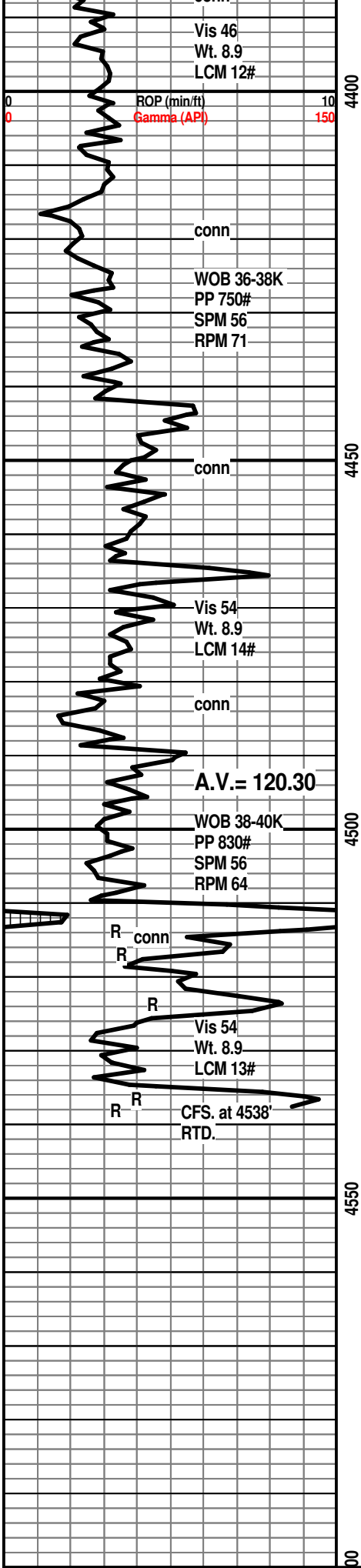
DOL; wh, off wh, lt gy, med to cse rhombic, v. gd interxln and vug por, med yel fluor, sl. sulfur odor, no stn, ns.

DOL; off wh, wh, lt gy, med to csely rhombic, v. gd to exc. interxln and vug por, minor chalky mtx, med yel min fluor, no stn or odor, ns.

DOL; wh, off wh, csely rhombic, exc. porosity, lrg pore throats, barren, med yel min fluor, ns.

DOL; wh, off wh, med to csely rhombic, exc. vug por, med yel min fluor, no stn or odor, interbdd vf to f gr qtz in dolomite mtx, ns.





DOL; wh, med rhombic, very lmy w/interbdd dolo. lmst, sandy w/scat med to cse clr rnd qtz gr in dolo and lmst mtz, scat off wh to wh cht, dull yel min fluor, no stn, ns.

DOL and LM; wh, off wh, sandy, incr. amt of med gr qtz gr. embdd in carb. mtz, no clean sand, most well cem, scat fair interpart and vug por, ns.

LM; off wh, tan, dolomitic w/interbdd dolo, sandy, incr. amt of med gr rnd qtz in lmst mtz, most dense, poor to no vis por, dull yel min fluor, ns.

LM; off wh, buff, sandy, some sucrosic dolo interbdd, v. hd, blocky, scat grn glau, rare small vug por, med yel min fluor, ns.

DOL; off wh, buff, sucrosic, v. hd, bands of qtzite/hd transl qtz, dense

**REAGAN SAND 4464(-2462)**  
 SS; clr, wh, med to rarely cse gr, rnd to subrnd, clusters, dense - partly qtzitic, some fri gr, fair intergran por, no fluor, no stn or odor, partly dolomitic, scat dk gy occ pyr shales

SS; clr, qtz, fine to med gr, abnt loose gr, poorly sorted, some w/gd intergran por, rnd to subrnd gr, clean, no fluor, no stn or odor, no sample shows, interbdd hd qtzitic ss

SS; clr, wh, f gr w/occ med gr, dolomitic, occ loose gr - most clusters, occ grn tint(glau), fair intergran por, no fluor, no stn or odor, ns.

**GRANITE WASH 4510(-2508)**  
 GRAN & CONGL; pink feldspar, cse qtz gr, scat grn weath. nodules, occ lrg qtz xtals, dense, some qtzite

WEATH. GRAN; pink feldspar, qtz, sandy ip. w/interbdd clr cse gr qtz, ns.

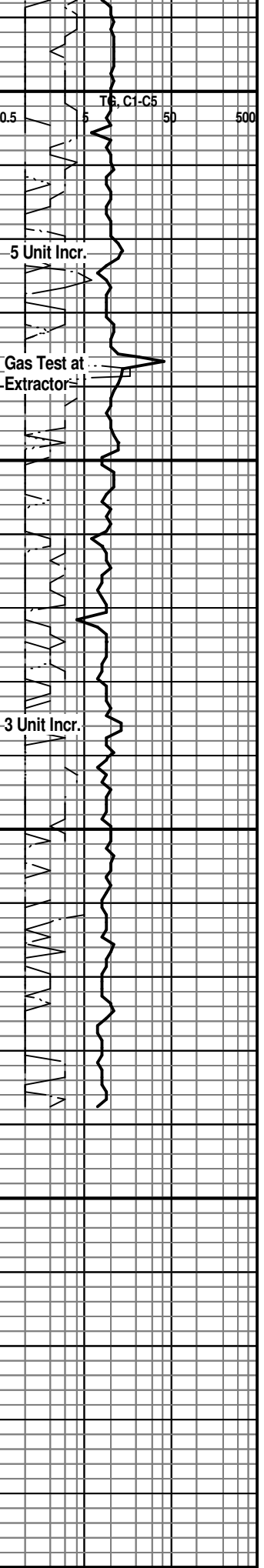
CONGL/GRAN; cse qtz gr, lrg opaque to transl. qtz xtals, weath gran w/embdd qtz gr, hd, no vis por, no fluor, no stn or odor, ns.

**BIT TORQUED UP BADLY AT 4538'**

RTD. 4538' at 5:15 AM. 10/17/12

LTD.

Halliburton DIL, NEU/DEN, Microlog





## DRILL STEM TEST REPORT

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

P.O. Box 838  
Lawrenceville, IL 62439

ATTN: Jon Christensen

**Carr #2-34**

**34-21s.-16w. Pawnee Co.**

Start Date: 2012.10.14 @ 06:34:30

End Date: 2012.10.14 @ 13:59:45

Job Ticket #: 49580                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.17 @ 13:14:07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**34-21s-16w. Pawnee Co.**  
**Carr #2-34**  
 Job Ticket: 49580      **DST#: 1**  
 Test Start: 2012.10.14 @ 06:34:30

## GENERAL INFORMATION:

Formation: **Lansing A-B**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 08:38:30  
 Time Test Ended: 13:59:45  
 Interval: **3508.00 ft (KB) To 3544.00 ft (KB) (TVD)**  
 Total Depth: 3544.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ryan Reynolds  
 Unit No: 48  
 Reference Elevations: 2002.00 ft (KB)  
 1991.00 ft (CF)  
 KB to GR/CF: 11.00 ft

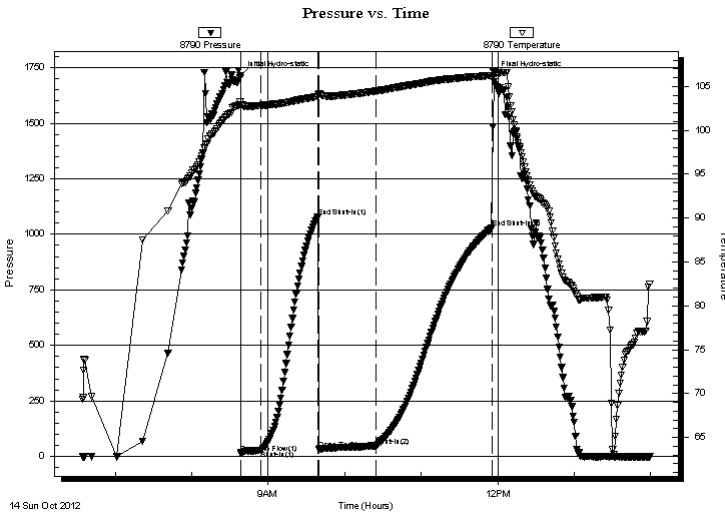
## Serial #: 8790

Inside

Press @ Run Depth: 46.39 psig @ 3509.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.10.14      End Date: 2012.10.14      Last Calib.: 2012.10.14  
 Start Time: 06:34:35      End Time: 13:59:44      Time On Btm: 2012.10.14 @ 08:38:15  
 Time Off Btm: 2012.10.14 @ 11:56:45

TEST COMMENT: IF: Fair blow . 1/2" - 3 1/2"  
 IS: No blow  
 FF: Good blow . 1/2" - 7"  
 FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.66	103.30	Initial Hydro-static
1	15.37	102.75	Open To Flow (1)
16	26.98	102.83	Shut-In(1)
61	1077.29	103.87	End Shut-In(1)
62	31.26	104.07	Open To Flow (2)
106	46.39	104.47	Shut-In(2)
197	1028.00	106.27	End Shut-In(2)
199	1714.14	106.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOWCM 10%gas, 15%oil, 20%w ater,	550.15ud
50.00	SLI WCOM Trc%w ater, 10%oil, 90%mud	0.25

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**34-21s.-16w. Pawnee Co.**  
**Carr #2-34**  
Job Ticket: 49580      **DST#: 1**  
Test Start: 2012.10.14 @ 06:34:30

**Tool Information**

Drill Pipe:	Length: 3282.00 ft	Diameter: 3.80 inches	Volume: 46.04 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 47.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3508.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3491.00	
Hydraulic tool	5.00			3496.00	
Safety Joint	2.00			3498.00	
Packer	5.00			3503.00	22.00      Bottom Of Top Packer
Packer	5.00			3508.00	
Stubb	1.00			3509.00	
Recorder	0.00	8790	Inside	3509.00	
Recorder	0.00	8792	Outside	3509.00	
Perforations	32.00			3541.00	
Bullnose	3.00			3544.00	36.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**34-21s.-16w. Pawnee Co.**  
**Carr #2-34**  
Job Ticket: 49580      **DST#: 1**  
Test Start: 2012.10.14 @ 06:34:30

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	33000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12800.00 ppm			
Filter Cake: 0.02 inches			

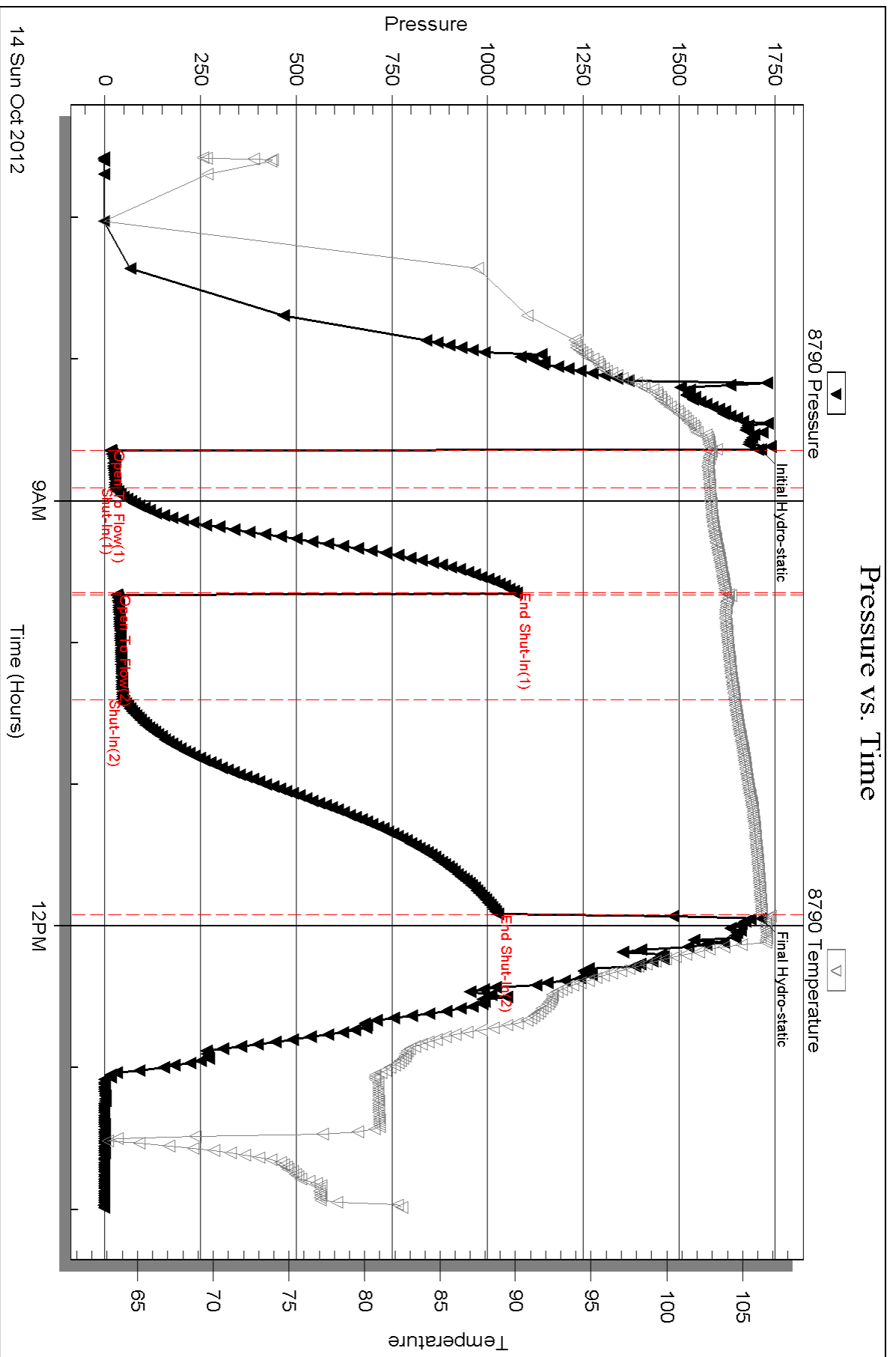
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOWCM 10%gas, 15%oil, 20%water, 55%m	0.148
50.00	SLI WCOM Trc%water, 10%oil, 90%mud	0.246

Total Length: 80.00 ft      Total Volume: 0.394 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



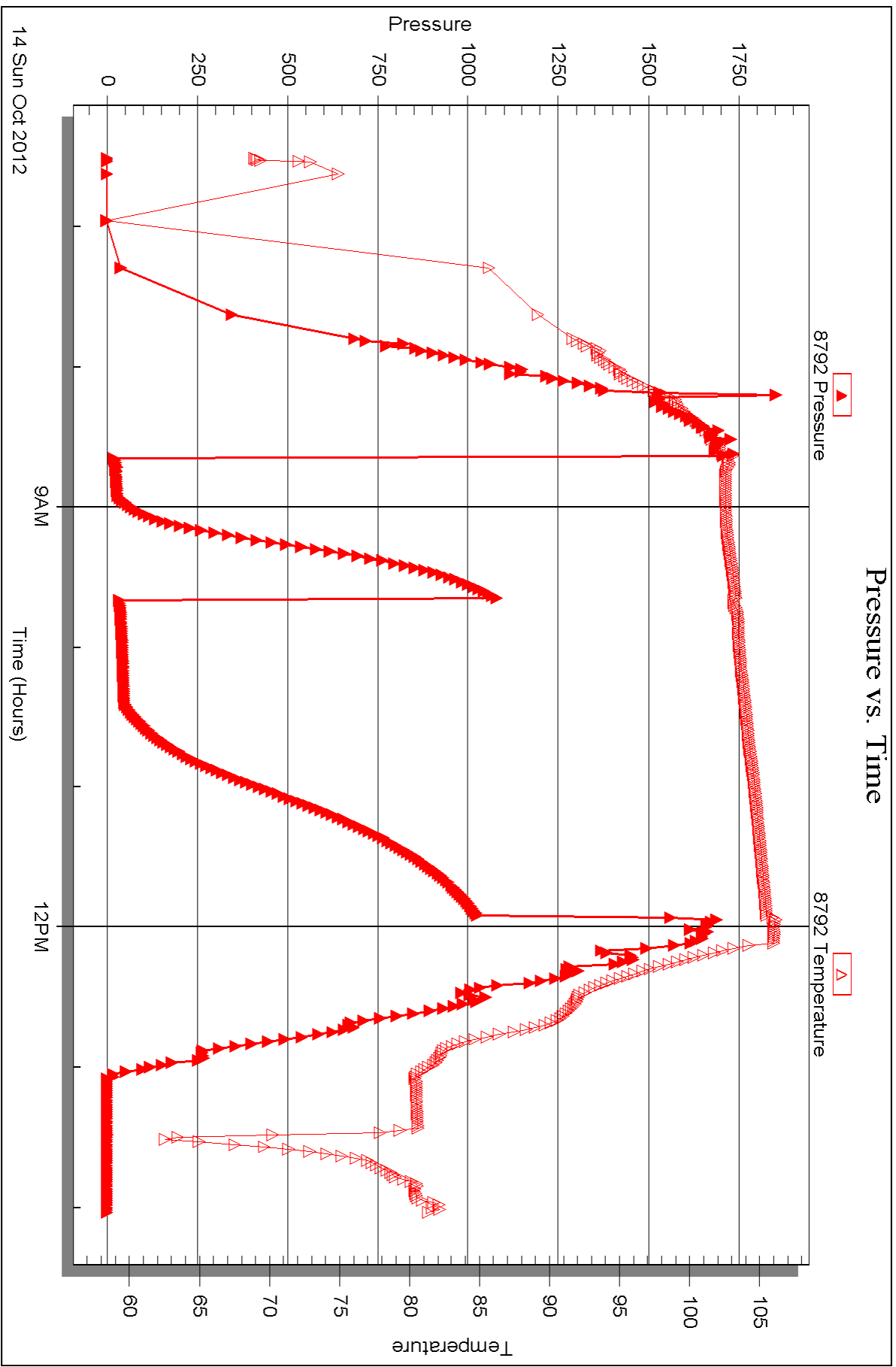


Serial #: 8792

Outside Herman L. Loeb, LLC.

Carr #2-34

DST Test Number: 1





## DRILL STEM TEST REPORT

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

P.O. Box 838  
Lawrenceville, IL 62439

ATTN: Jon Christensen

**Carr #2-34**

**34-21s.-16w. Pawnee Co.**

Start Date: 2012.10.15 @ 14:15:32

End Date: 2012.10.15 @ 21:17:02

Job Ticket #: 49581                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.17 @ 13:13:10

Herman L. Loeb, LLC. 34-21s.-16w. Pawnee Co. Carr #2-34 DST # 2 Arbuckle 2012.10.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**34-21s-16w. Pawnee Co.**  
**Carr #2-34**  
 Job Ticket: 49581 **DST#: 2**  
 Test Start: 2012.10.15 @ 14:15:32

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 16:13:02  
 Time Test Ended: 21:17:02  
 Interval: **3772.00 ft (KB) To 3855.00 ft (KB) (TVD)**  
 Total Depth: 3855.00 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: 2002.00 ft (KB)  
 1991.00 ft (CF)  
 KB to GR/CF: 11.00 ft

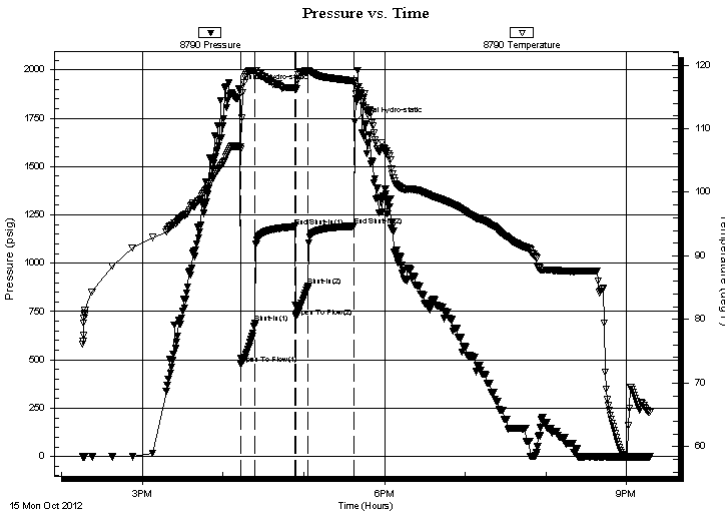
## Serial #: 8790

Inside

Press @ Run Depth: 881.27 psig @ 3773.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.10.15 End Date: 2012.10.15 Last Calib.: 2012.10.15  
 Start Time: 14:15:37 End Time: 21:17:01 Time On Btm: 2012.10.15 @ 16:12:17  
 Time Off Btm: 2012.10.15 @ 17:38:02

TEST COMMENT: IF: Strong blow . BOB 1 min. No GTS  
 IS: No blow  
 FF: Strong blow BOB 2 min. No GTS  
 FS: Good blow . 7" into bucket

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.18	107.16	Initial Hydro-static
1	475.81	106.79	Open To Flow (1)
12	691.78	119.17	Shut-In(1)
42	1189.60	116.39	End Shut-In(1)
42	724.02	116.19	Open To Flow (2)
51	881.27	119.05	Shut-In(2)
86	1192.00	117.48	End Shut-In(2)
86	1733.45	117.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
420.00	GMW 5%gas, 5%mud, 90%mud	3.91
770.00	GOMCW 5%gas, 20%mud, 20%oil, 55%w tr	10.80
490.00	GWOOCM 10%gas, 25%w tr, 25%oil, 40%r	6.87

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**34-21s.-16w. Pawnee Co.**  
**Carr #2-34**  
Job Ticket: 49581      **DST#: 2**  
Test Start: 2012.10.15 @ 14:15:32

**Tool Information**

Drill Pipe:	Length: 3537.00 ft	Diameter: 3.80 inches	Volume: 49.61 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 50.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	3772.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3755.00	
Hydraulic tool	5.00			3760.00	
Safety Joint	2.00			3762.00	
Packer	5.00			3767.00	22.00      Bottom Of Top Packer
Packer	5.00			3772.00	
Stubb	1.00			3773.00	
Recorder	0.00	8790	Inside	3773.00	
Recorder	0.00	8792	Outside	3773.00	
Perforations	2.00			3775.00	
Blank Spacing	66.00			3841.00	
Perforations	11.00			3852.00	
Bullnose	3.00			3855.00	83.00      Bottom Packers & Anchor

**Total Tool Length: 105.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**34-21s.-16w. Pawnee Co.**  
**Carr #2-34**  
Job Ticket: 49581      **DST#: 2**  
Test Start: 2012.10.15 @ 14:15:32

## Mud and Cushion Information

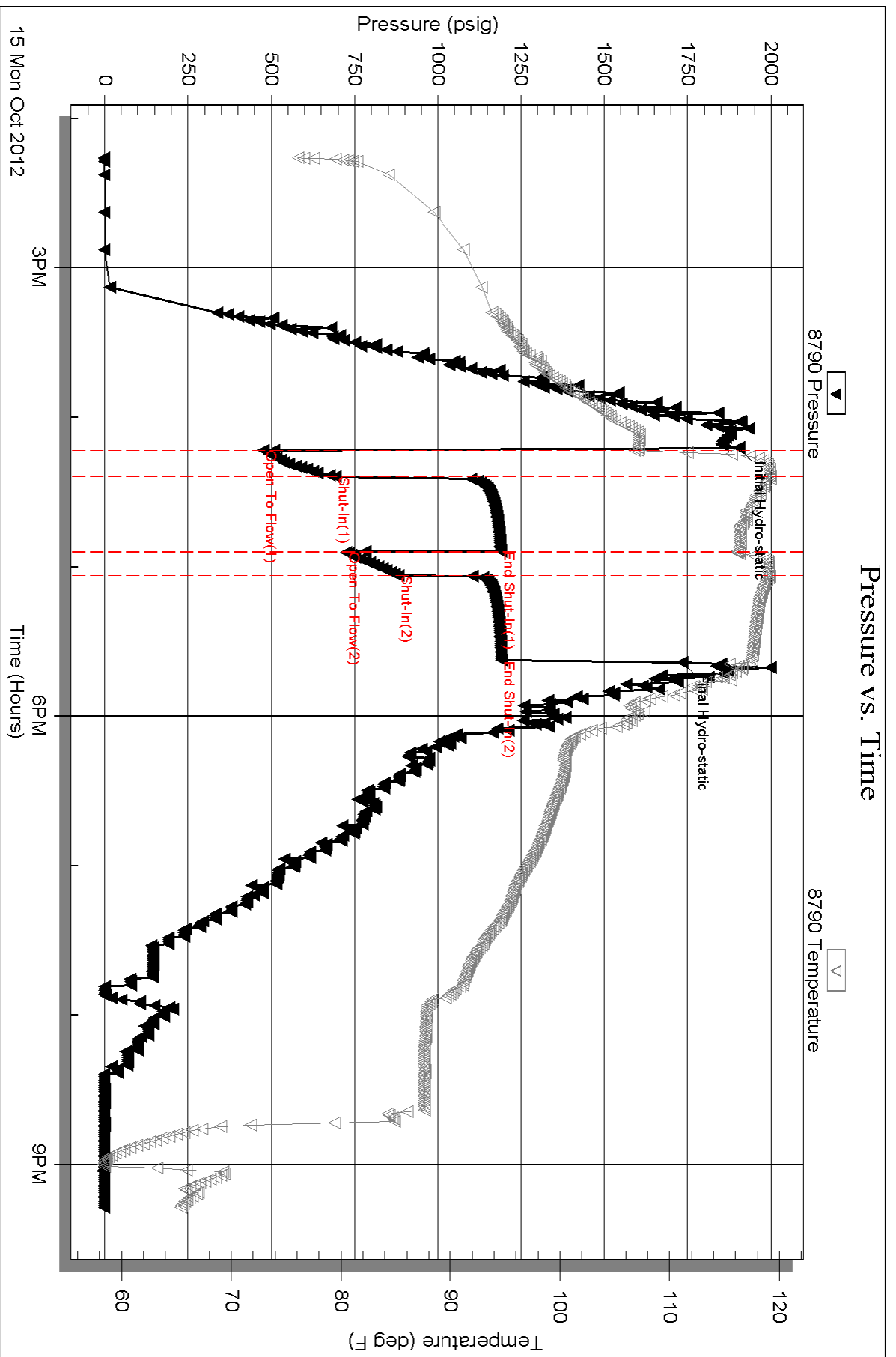
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	37000 ppm
Viscosity: 73.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	GMW 5%gas, 5%mud, 90%mud	3.915
770.00	GOMCW 5%gas, 20%mud, 20%oil, 55%w tr	10.801
490.00	GWOCM 10%gas, 25%w tr, 25%oil, 40%mud	6.873

Total Length: 1680.00 ft      Total Volume: 21.589 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





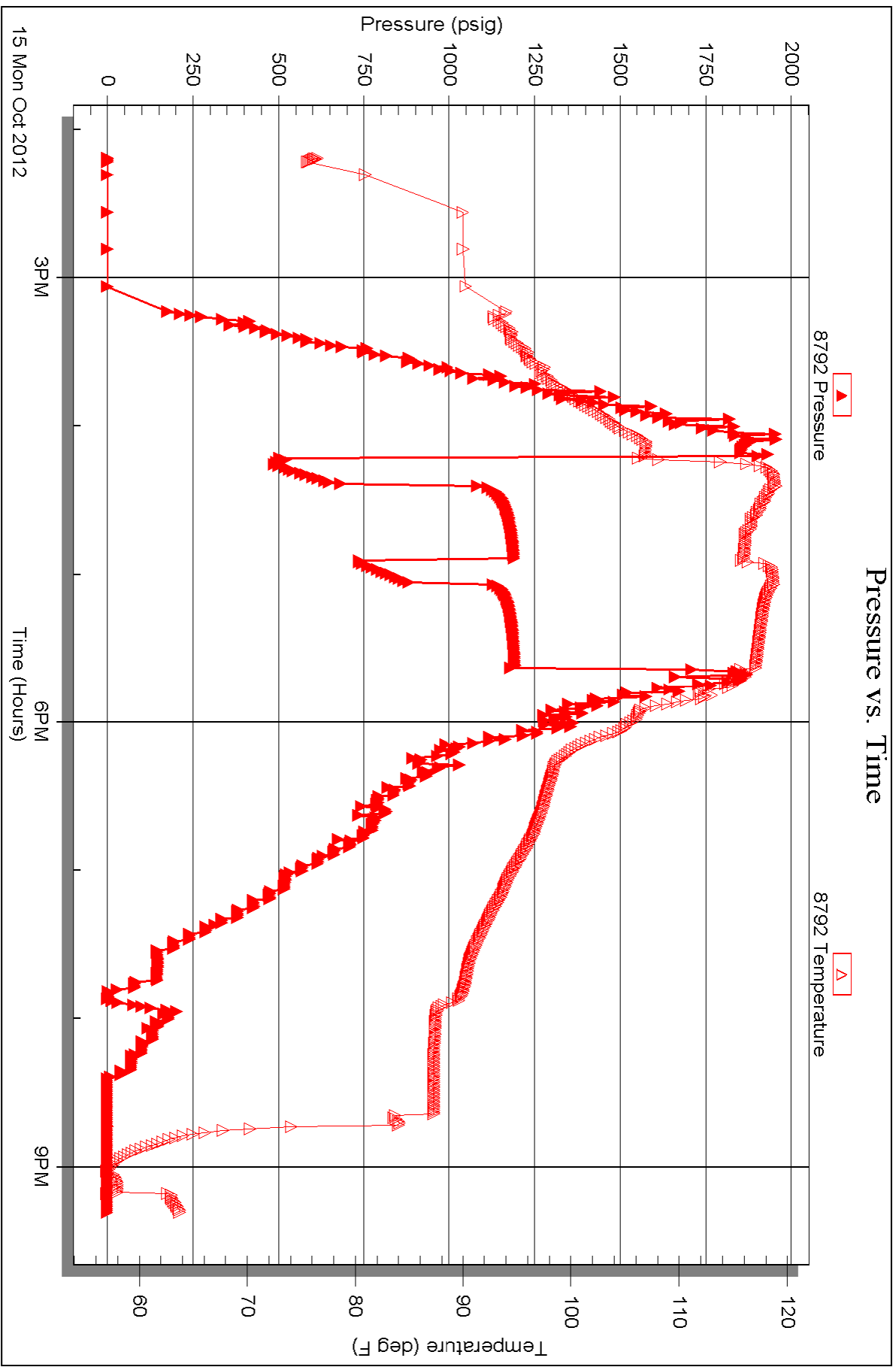
Serial #: 8792

Outside

Herrman L. Loeb, LLC.

Carr #2-34

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49580

4/10

Well Name & No. Carr #2-34 Test No. 1 Date 10-14-12  
 Company Herman L. Loeb, LLC. Elevation 2002 KB 1991 GL  
 Address P.O. Box 838 Lawrenceville, IL 62439  
 Co. Rep / Geo. Jon Christensen Rig Sterling #2  
 Location: Sec. 34 Twp. 21s. Rge. 16w. Co. Pawnee State KS

Interval Tested 3508-3544 Zone Tested Lansing "A-B"  
 Anchor Length 36' Drill Pipe Run 3282 Mud Wt. 8.7  
 Top Packer Depth 3503 Drill Collars Run 217 Vis 48  
 Bottom Packer Depth 3508 Wt. Pipe Run Ø WL 10.0  
 Total Depth 3544 Chlorides 12,800 ppm System LCM Trc.  
 Blow Description IF: Fair blow, 1/2" - 3 1/2". ISI: No blow

FF: Good blow, 1/2" - 7"  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>GIP</u>	<u>100</u>			
<u>50</u>	<u>SLI W LOM</u>		<u>10</u>	<u>Trc</u>	<u>90</u>
<u>30</u>	<u>GD WGM</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>55</u>

Rec Total 280 BHT 107 Gravity N/C API RW 14 @ 93.5° F Chlorides 33000 ppm

(A) Initial Hydrostatic 1714  Test 1150 T-On Location 0525  
 (B) First Initial Flow 15  Jars T-Started 0634  
 (C) First Final Flow 27  Safety Joint 75 T-Open 0838  
 (D) Initial Shut-In 1077  Circ Sub T-Pulled 1155  
 (E) Second Initial Flow 31  Hourly Standby T-Out 1400  
 (F) Second Final Flow 46  Mileage 120 186 Comments \_\_\_\_\_  
 (G) Final Shut-In 1028  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1714  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1411  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1411

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49581

4/10

Well Name & No. Carr #2-34 Test No. 2 Date 10-15-12  
 Company Herman L. Loeb, LLC. Elevation 2002 KB 1991 GL  
 Address P.O. Box 838 Lawrenceville, IL 62439  
 Co. Rep / Geo. Jon Christensen Rig Sterling #2  
 Location: Sec. 34 Twp. 21s. Rge. 16w. Co. Pawnee State KS

Interval Tested 3772-3855 Zone Tested Arbuckle  
 Anchor Length 83' Drill Pipe Run 3537 Mud Wt. 9.3  
 Top Packer Depth 3767 Drill Collars Run 217 Vis 73  
 Bottom Packer Depth 3772 Wt. Pipe Run ∅ WL 8.8  
 Total Depth 3855 Chlorides 6500 ppm System LCM 1#  
 Blow Description IF: Strong blow. BOB 1 min. IST: No blow

FF: Strong blow. BOB 2 min. No GTS

FST: Good blow. 7"

Rec	Feet of	%gas	%oil	%water	%mud
<u>370</u>	<u>GIP</u>	<u>100</u>			
<u>490</u>	<u>BWOCM</u>	<u>10</u>	<u>25</u>	<u>25</u>	<u>40</u>
<u>770</u>	<u>GOMCW</u>	<u>5</u>	<u>20</u>	<u>55</u>	<u>20</u>
<u>420</u>	<u>GMW</u>	<u>5</u>		<u>90</u>	<u>5</u>

Rec Total 2050 BHT 117 Gravity N/C API RW 19 @ 73 °F Chlorides 37000 ppm

(A) Initial Hydrostatic 1903  Test 1150 T-On Location 1315  
 (B) First Initial Flow 476  Jars T-Started 1416  
 (C) First Final Flow 692  Safety Joint 75 T-Open 1613  
 (D) Initial Shut-In 1190  Circ Sub T-Pulled 1735  
 (E) Second Initial Flow 724  Hourly Standby T-Out 2117  
 (F) Second Final Flow 881  Mileage 120 186 Comments \_\_\_\_\_  
 (G) Final Shut-In 1192  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1733  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 10  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1411  
 Final Flow 10  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1411

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.



376  
771 CARR 2  
6438

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	10/11/2012
INVOICE NUMBER		
1718 - 91023793		

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

J LEASE NAME CARR 2-34  
 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
40521635	27463		Net - 30 days	11/10/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 10/10/2012 to 10/10/2012</i>				
0040521635				
171807302A Cement New Well Casing/Pi 10/10/2012 Cement 8 5/8" Surface				
A-Con Blend Common	200.00	EA	13.50	2,700.00 T
Common Cement	200.00	EA	12.00	2,400.00 T
Cellofakc	100.00	EA	2.78	277.50 T
Calcium Chloride	940.00	EA	0.79	740.25 T
Sugar	50.00	EA	1.50	75.00 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	168.75	168.75
"8 5/8"" Guide Shoe (Red)"	1.00	EA	412.50	412.50
Flapper Type Ins Float Valve 8 5/8" (Blue	1.00	EA	210.00	210.00
"Unit Mileage Chg (PU, cars one way)"	55.00	MI	3.19	175.31
Heavy Equipment Mileage	110.00	MI	5.25	577.50
"Proppant & Bulk Del. Chgs., per ton mil	1,034.00	EA	1.20	1,240.80
Depth Charge; 501'-1000'	1.00	EA	900.00	900.00
Blending & Mixing Service Charge	400.00	BAG	1.00	420.00
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

**PAID**  
34328  
OCT 26 2012  
**SCANNED**

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,616.36
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	514.00
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	11,130.36
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



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

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

**FIELD SERVICE TICKET**  
**1718 07302 A**

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

DATE OF JOB 10-10 12 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 Herman L. Loeb, LLC		LEASE Carr		WELL NO. 2-3					
ADDRESS		COUNTY Pawnee		STATE KS					
CITY STATE		SERVICE CREW Orlando Mcbray, Lawrence							
AUTHORIZED BY		JOB TYPE: C New - 8 5/8 Sucker							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AREA	TIME
27385	1						10-10-12	PM	30
27463	1					ARRIVED AT JOB		AM	10:30
15826 15860	1					START OPERATION		AM	4:30
						FINISH OPERATION		AM	5:30
						RELEASED		AM	6:00
						MILES FROM STATION TO WELL	55		

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP101	A-Con Blend Cement	SK	200		36000	
CP102	Common Cement	SK	200		32000	
CC102	Cellulose	Lb	100		3700	
CC103	Calcium Chloride	Lb	940		9870	
CF105	Top Rubber Cement plus 8 5/8"	ea	1		2250	
CF203	Grade Stone (R.D) 8 1/8"	ea	1		5500	
CF1453	Flapper Type Insert Seat Valve 8 5/8" (H=)	ea	1		2800	
CC131	Sugar	Lb	50		1000	
E100	Pickup mileage	mi	55		2337	
E101	Heavy Equipment mileage	mi	110		7700	
E113	Bulk Delivery	Tn	1034		16544	
CE301	Depth Charge 501-1000	ea	1		12000	
CE340	Blending & mixing	SK	100		5600	
CE504	Blug Cement	ea	1		2500	
5003	Service Superv. or	ea	1		1750	
					SUB TOTAL	106163
					DLS	
SERVICE & EQUIPMENT				%TAX ON \$		
MATERIALS				%TAX ON \$		
					TOTAL	

CHEMICAL / ACID DATA:			

SERVICE REPRESENTATIVE Steve Orlando	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
---	---

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)





6076  
771 Carr 34  
6438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 10/19/2012
INVOICE NUMBER 1718 - 91029658		

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

J LEASE NAME Carr 2-34  
 O LOCATION  
 B COUNTY Pawnee  
 S STATE KS  
 T JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40521980	20920		Net - 30 days	11/18/2012	
For Service Dates: 10/18/2012 to 10/18/2012					
0040524980					
171807263A Cement-New Well Casing/Pi 10/18/2012 Cement 5 1/2" Longstring					
50/50 POZ		300.00	EA	8.25	2,475.00 T
Collotake		75.00	EA	2.78	208.13 T
Gypsum		1,280.00	EA	0.60	768.00 T
FLA 327		126.00	EA	6.63	708.75 T
Gilsonite		1,800.00	EA	0.50	904.50 T
Mud Flush		1,000.00	EA	0.65	645.00 T
KCl Potassium Chloride		680.00	EA	1.13	765.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blue)		1.00	EA	300.00	300.00 T
"Cmt. Shoe Packer Type, 5 1/2" (Red)"		1.00	EA	2,775.00	2,775.00 T
"TurboLizer, 5 1/2" (Blue)"		10.00	EA	82.50	825.00 T
"5 1/2" Basket (Blue)"		3.00	EA	217.50	652.50 T
"Unit Mileage Chg (PU, cars one way)"		55.00	MI	3.18	175.31 T
Heavy Equipment Mileage		110.00	MI	5.25	577.50 T
"Proppant & Bulk Del. Chgs., per ton mil		883.00	EA	1.20	831.60 T
Depth Charge; 4001' 5000'		1.00	EA	1,890.00	1,890.00 T
Blending & Mixing Service Charge		300.00	DAG	1.05	315.00 T
Plug Container Util. Chg.		1.00	EA	187.50	187.50 T
"Service Supervisor, first 8 hrs on loc.		1.00	LA	131.25	131.25 T
PLEASE REMIT TO:		SEND OTHER CORRESPONDENCE TO:			
BASIC ENERGY SERVICES, LP		BASIC ENERGY SERVICES, LP		SUB TOTAL 15,075.79	
PO BOX 841903		PO BOX 10460		TAX 532.46	
DALLAS, TX 75284-1903		MIDLAND, TX 79702		INVOICE TOTAL 15,608.25	

PAID  
34515  
NOV 02 2012  
SCANNED



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

**FIELD SERVICE TICKET**  
**1718 07263 A**

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

DATE OF JOB <u>10-18-12</u> DISTRICT <u>PRATT KS</u>		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 <u>HERMAN LOEB</u>		LEASE <u>CARR</u> <u>2-34</u> WELL NO.							
ADDRESS		COUNTY <u>PAWNEE</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Sullivan, Nelson, Phye</u>							
AUTHORIZED BY		JOB TYPE: <u>CRW 5" L5</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>3370-20970</u>	<u>45</u>						<u>10-17-12</u>		<u>4:00</u>
<u>709-19918</u>	<u>45</u>					ARRIVED AT JOB			<u>12:00</u>
<u>3700</u>						START OPERATION	<u>10-18-12</u>		<u>4:05</u>
						FINISH OPERATION			<u>4:45</u>
						RELEASED			<u>5:30</u>
						MILES FROM STATION TO WELL			<u>55</u>

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, material 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: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	5/8" x 3/4" cent	SK	250		2,750.00
CP 104	5/8" x 3/4" cent	SK	50		550.00
CC 107	Collar	lb	75		277.50
CC 113	TDSum	lb	1260		945.00
CC 129	TH 572	lb	126		945.00
CC 201	9/16" x 1/2"	lb	1800		1,200.00
C 700	Hck	lb	680		1,020.00
CE 607	LATCH Down Plug Baffle 5 1/2"	SA	1		400.00
CE 1001	SAIT Packer SHU	SA	7		2,700.00
CE 1051	Turntable	SA	1		1,100.00
CE 1501	WASHERS	SA	3		370.00
CE 151	DRYER Flare	SA	1000		900.00
E 100	2 1/2" x 1/2" oil	oil	55		233.75
E 101	Heavy 5/8" x 1/2"	oil	110		770.00
E 112	Bulk Delivery	SA	693		1,126.80
PE 205	Depth charge 4000-5000"	SA	1		2,520.00
PE 240	Block - misc	SK	300		420.00
PE 500	Play Container - 1000	SA	1		250.00
5002	Service Supplies	SA	1		175.00

SUB TOTAL 15,075.20

CHEMICAL / ACID DATA:			

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

*Thank you*

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	



# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>HERMAN LOEB</b>	Lease No.	Date
Lease <b>CARR</b>	Well # <b>2-34</b>	<b>10-18-12</b>
Field Order # <b>2263</b>	Station <b>PRATT KS</b>	County <b>RAWNEE</b>
Type Job <b>CNW 5 1/2 LOSTON</b>	Formation	Legal Description <b>34-21-16</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/FT		Acid	RATE	PRESS	ISIP
5 1/2				Pre Pad	Max		5 Min.
Depth <b>4124</b>	Depth	From	To	Pad	Min		10 Min.
Volume <b>74.5</b>	Volume	From	To	Frac	Avg		15 Min.
Max Press <b>2000</b>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth <b>3974'</b>	Packer Depth	From	To				

Customer Representative	Station Manager <b>DAVE SCOTT</b>	Treater <b>Robert Lee</b>
-------------------------	-----------------------------------	---------------------------

Service Units	<b>37400</b>	<b>33208</b>	<b>29720</b>	<b>20959</b>	<b>19918</b>				
Driver Names	<b>William</b>	<b>Michael</b>	<b>Phyllis</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 AM					CNW loc - soft matrix
					Run 94 575 5 1/2 15.5 gpm
					Packer stroke 2.1" with 2.2 gpm 24 min
					Rate 2.3 gpm 4.5 min 30 min
2:45					Casing and tubing
2:50					Hook up to bleed line
2:55					Shot down DROP PACK
3:10	950				OPEN PACKER SHAPE AND CIRC
4:00	400		24	3	Pump down flush
			5		SPACER
			12	5	2.1 gpm 5.0 gpm SCAVENGE and 2.2
			45		mix 2.0 gpm 6.0 gpm 1.9 gpm
					cut mixed shot down) wash down, lead
					Release Plug
	200			6	at 12 min
	300		59		lift 15'
	550			4	slow rate
4:45	1800		94		Plug down 9.0 gpm 1.5 min Hds 500
			12		Plug R.H. up 3.0 gpm 1.5 min 2.0 gpm
					500 gpm Note

Thank Lee