



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: _____



1085611

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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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	EVA RICHARDSON 4-19
Doc ID	1085611

Tops

Name	Top	Datum
Anhydrite	1758	+544
Topeka	3314	-1210
Heebner	3531	-1229
Toronto	3552	-1250
Lansing A/B	3566	-1264
Lansing C	3608	-1306
Lansing D	3623	-1321
Lansing E	3642	-1340
Lansing F	3652	-1350
Lansing G	3667	-1365
Lansing H	3706	-1404
Lansing I	3727	-1425
Lansing J	3742	-1440
Lansing K	3762	-1460
Lansing L	3792	-1490
B/KC	3805	-1503
Marmaton	3888	-1586
Arbuckle	3972	-1670

LITHOLOGY STRIP LOG

WellSight Systems

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

Measured Depth Log

Well Name: HERMAN L. LOEB LLC. EVA RICHARDSON #4-19

Location: SE SW NE SE SEC. 19, T 11S, R 22W, TREGO CO. KANSAS

License Number: 15-195-22785-00-00

Region: MONG

Spud Date: 5/26/12

Drilling Completed: 6/4/12

Surface Coordinates: 1,520' FSL, 985' FEL

Bottom Hole Coordinates:

Ground Elevation (ft): 2,291

K.B. Elevation (ft): 2,302'

Logged Interval (ft): 3,000'

To: 3,990'

Total Depth (ft): 3,990'

Formation: RTD IN; Basal Pennsylvanian

Type of Drilling Fluid: Native Mud to 2,994'. Chem. Gel. to RTD (3,990').

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: HERMAN L. LOEB LLC.

Address: PO BOX 838

LAWRENCEVILLE IL 62439

(812-453-0385)

GEOLOGIST

Name: James R Hall (Well Site Supervision)

Company: Black Gold Petroleum

Address: 5530 N. Sedgwick

Wichita, Kansas 67204-1828

(316) 838-2574, (316)-217-1223

Comments

Drilling contractor: Sterling Drilling, Rig #2, Pusher: Uvaldo Martinez, Spud 5/26/12. RTD 6/4/12 3,990'.

Surface Casing: 8 5/8" set at 250' w/175sx, cmt. did circulate.

Production Casing: 5.5" ran 6/5/12.

Deviation Surveys: 0.75 @ 259', 0.75 @ 3,588', 1.0 @ 3,990'.

Bit Record:

#1 12 1/4" RR JZ HA1PGC, out @ 259' made 259' in 2hrs.

#2 7 7/8" JZ QX20 in @ 259', out @ 3,588', made 3,329' in 78.25hrs.

#3 7 7/8" RR JZ Qx20 in @ 3,588', out @ 3,990', made 402' in 26.75 hrs.

Drilling time commenced: @ 3,000'. Minimum 10' wet and dry samples commenced: @ 3,000' to RTD 3,990'.
Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Sterling Drilling, unit #1. Tooke Daq. Hotwire gas values were lagged by the Tooke Daq and placed in the Geologic Strip Log, by the well site geologist.

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 2,994' to RTD 3,990'. Mud Engineer: Gary Schmidtberger.

DST CO. Trilobite, Tester: Brian Fairbank, Hays Ks..

OH Logs: Log Tech (Hays Kansas),
Operator: J Long.
DIL, CDL/CNL, MEL.

Note: The open hole log gamma ray and caliper curves have been placed on this sample strip log, for better correlation. If there is a depth difference between the sample strip log and the open hole electric logs, the gamma ray and caliper curves have been shifted to reflect strip log drilling time depths.

OH Log Formation Tops: Anhydrite 1,758 (+544), Topeka 3,314 (-1210), Heebner 3,531 (-1229), Toronto 3,552 (-1250), Lansing "A" / "B" 3,566 (-1264), "C" 3,608 (-1306), "D" 3,623 (-1321), "E" 3,642 (-1340), "F" 3,652 (-1350), "G" 3,667 (-1365), "H" 3,706 (-1404), "I" 3,727 (-1425), "J" 3,742 (-1440), "K" 3,762 (-1460), "L" 3,792 (-1490), B/KC 3,805 (-1503), Marmaton 3,888 (-1586), Arbuckle 3,972 (-1670).

DSTs

DST #1 3,532' - 3,588' (56'), Toronto & Lansing "A/B", 15-45-30-60, IH 1805, IF 36-40 (surface blow dead in 3min), ISI 409, FF 46-48 (no blow, flush tool surface blow-died in 30sec), FSI 383, FH 1674, Rec; 5' drilling mud, BHT 112F.

DST #2 Lansing "C"- "D"- "E" 3,591' - 3,651' (60'), 15-45-45-90, IH 1763, IF 112-137 (weak 1inch), ISI 385, FF 141-164 (no blow first 4min, 1/4" by end of period), FSI 382, FH 1687, Rec; 205'mud (100%mud), 65' muddy water (85%water, 15%mud), Rwa 0.152 @ 65F (0.09 @ 111F), Chl 54,000ppm, Chl drilling mud 2,600ppm, BHT 111F. Had to slide tool approx. 8' to bottom.

DST #3 "H"- "I"- "J" 3,691' - 3,759' (68'), IH 1866, IF 35-45 (weak surface), ISI 750, FF 56-63 (surface blow, dead in 30sec, flush tool, surface blow dead in 17min), FSI 709, FH 1811, Rec; 5' drilling mud, 5' slightly gas & oil cut mud (5%gas, 5%oil), BHT 113F.


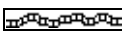
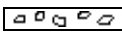
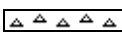
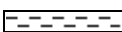
DST #4 Kansas City "K" & "L", 3,760' - 3,808', 15-45-30-60, IH 1912, IF 21-22 (surface bowl dead in 6min), ISI 758, FF 153-157 (no blow flush tool, surface blow, dead in 1min), FSI 831, FH 1848, Rec; 10' very slightly oil cut mud (5%oil, 95%mud), 240' drilling mud (100%mud), BHT 112F. Pressure data and large drilling mud recovery are due to tool valve failure after the tool was flushed (right after tool was flushed mud in the annulus fell 30' to 40'), during the second open. Therefore the data recorded on the charts after the tool being flushed and therefore the large mud recovery, are considered invalid.






DST #5 Marmaton 3,902' - 3,941' (39'), 15-45-60-120, IH 1937, IF 17-19 (surface blow dead in 4min), ISI 721, FF 21-26 (no blow), FSI 712, FH 1842, Rec; 5' mud cut oil (70%oil, 30%mud), BHT 116F.



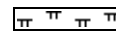
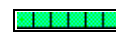
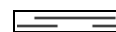
Classification

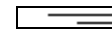




AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. **MUDSTONE;** muddy carbonate rocks containing less than 10% grains. **WACKESTONE;** mud supported carbonate rocks with more than 10% grains. **PACKSTONE;** grain supported muddy carbonate rocks. **GRAINSTONE;** mud free carbonate rock, grain supported. **BOUNDSTONE;** carbonate rock bound together at deposition (coral, etc.). **CRYSTALLINE CARBONATE;** carbonate rock retaining to little of their depositional texture to be classified.

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst

	Coal
	Congl
	Dol
	Gyp
	Igne

	Lmst
	Meta
	Mrlst
	Salt
	Shale

	Shcol
	Shgy
	Sltst
	Ss
	Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- CryxIn
- Earthy
- FinexIn
- Grainst
- Lithogr
- MicroxIn
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

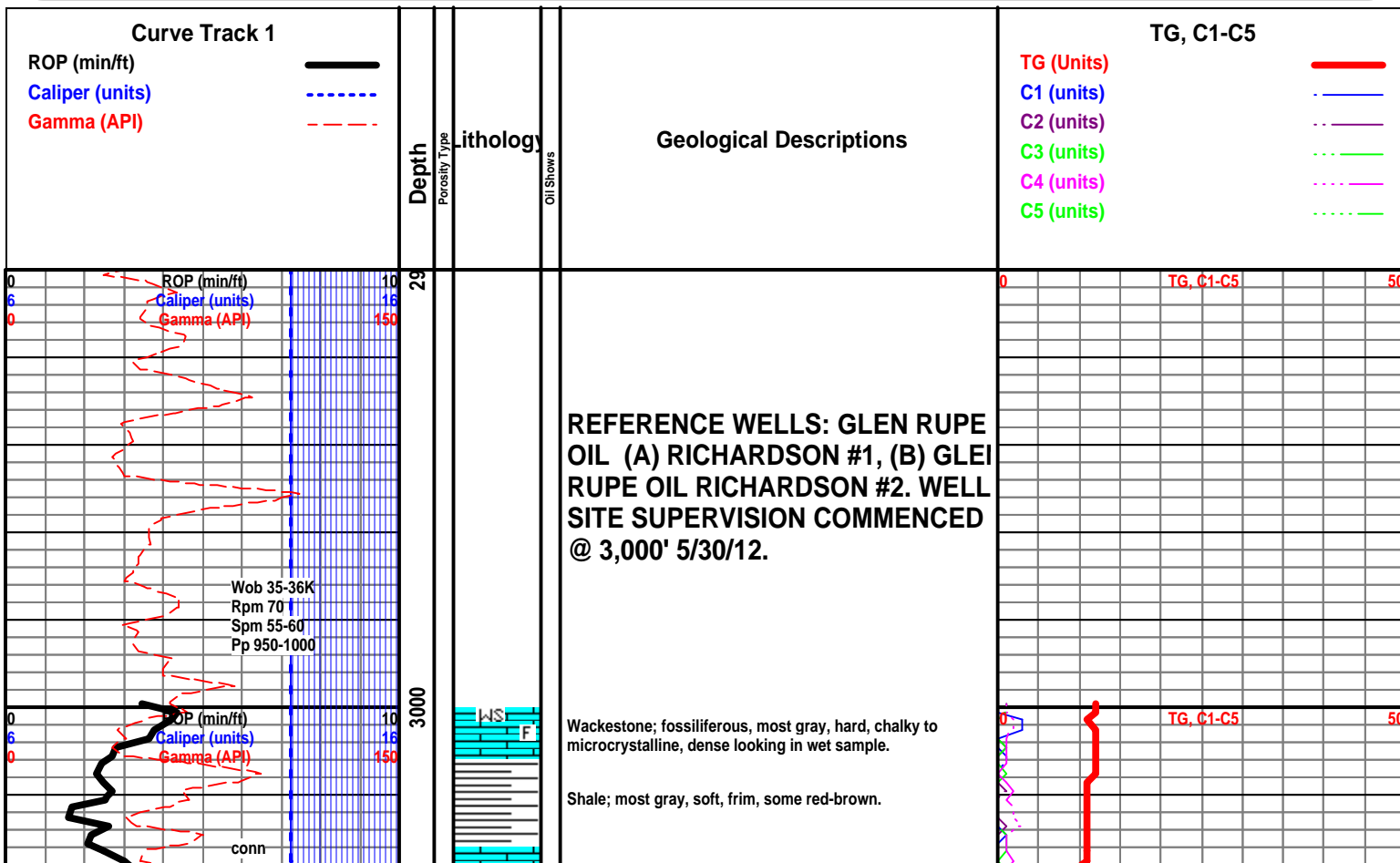
- Even
- Spotted
- Ques
- Dead

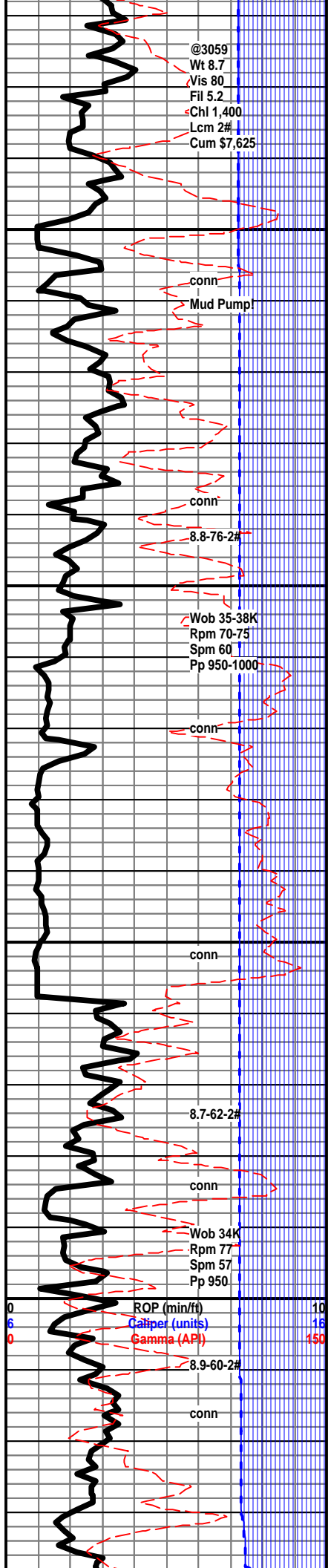
INTERVAL

- Core
- Dst

EVENT

- Rft
- Sidewall





Wackestone; fossiliferous as above, scattered mudstone; gray occasionally cream, hard, microcrystalline to chalky, rare free tan chert and pyrite. Sample quality poor due to low mud weight!

Shale; most gray, some gray - green, trace red.

Wackestone; fossiliferous to oolitic, hard, gray to cream in color, microcrystalline to chalky matrix, looks dense in wet, and dry samples, no show, very dull yellow to gold mineral fluorescence only.

Shale; most gray, some pale gray-green, traces of red.

Mudstone; gray to cream, hard, microcrystalline to chalky, some fossils in the matrix, dense looking.

Wackestone; fossiliferous, some scattered fusulinids, hard, dense look in wet and dry, no show.

Shale; as above, most gray, sample quality poor to fair due to low mud weight.

Wackestone; fossiliferous to oolitic, cream, hard, microcrystalline to chalky matrix, some with chert inclusions, no show.

Shale; very colored, gray, dark gray to black, scattered green to red, some amorphous claystone, samples wash gray.

Wackestone; cream to gray, fossiliferous, dense.

Shale; most gray, dark gray, some black, less colored shales with depth here, sample wash heavy gray, most soft to very soft claystone, traces of light gray siltstone, some with micaceous look, soft to very friable.

Stotler 3158 (-856) A -13 B -14

Wackestone; fossiliferous, cream to tan in color, hard, microcrystalline to chalky matrix, looks dense in wet and dry, very dull mineral fluorescence only.

Mudstone; cream to tan, hard, microcrystalline to chalky, dense, some with fossil inclusions, sample quality still poor to fair due to low mud weight! Samples wash lighter gray!

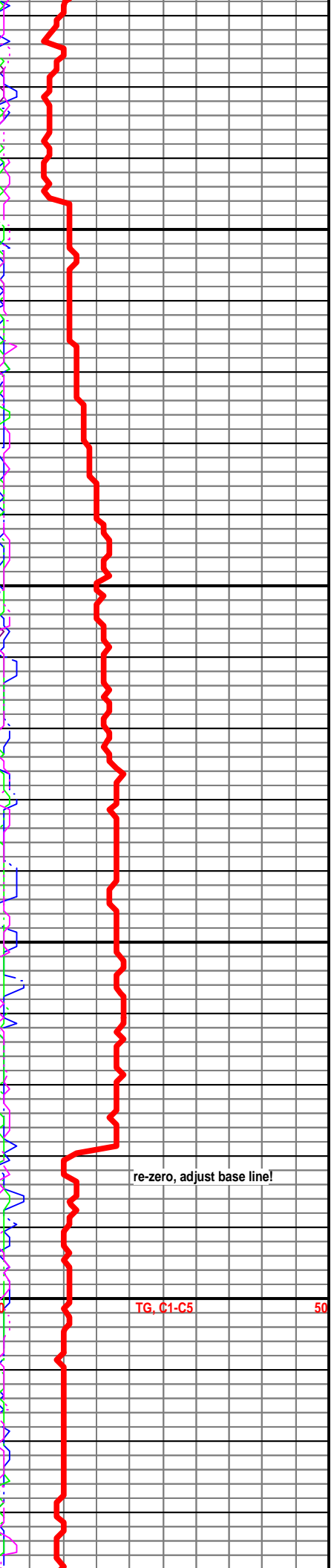
Shale; gray to black, most soft.

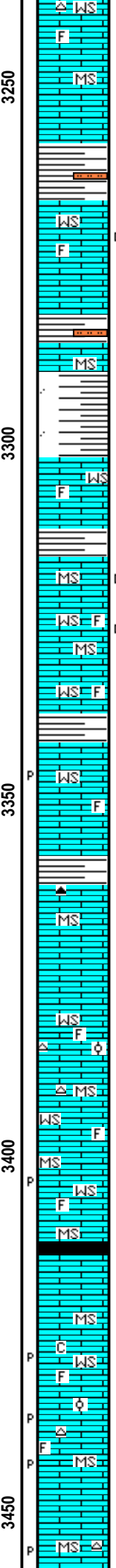
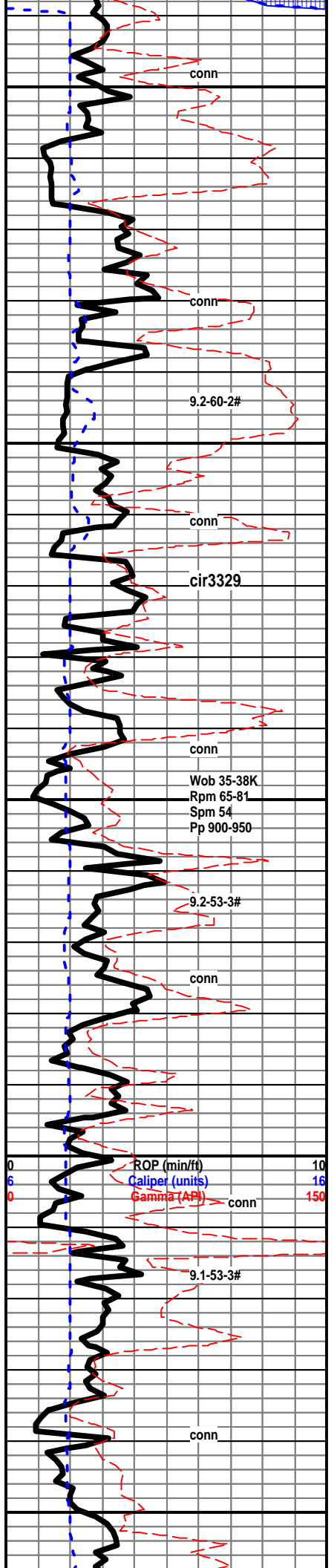
Mudstone; cream to gray, some scattered off white, chalky, some with dark inclusions, no show.

Wackestone; cream to gray, hard to brittle, fossiliferous, scattered crystalline-silky luster, rare barren pinpoint porosity in the dry sample.

Wackestone; cream, hard, most microcrystalline matrix with fossils and oolites, no show, dull mineral fluorescence only, rare glauconite.

Shale; gray, dark gray to black.





Wackestone; fossiliferous, cream, hard, some with chert inclusions, dense looking matrix, dull mineral fluorescence only, sample quality improving with depth.

Mudstone; cream to gray, microcrystalline to chalky, rare very fine crystalline texture.

Shale; gray to black, trace gray to light gray siltstone.

Howard 3267 (-965) A -14 B -12

Wackestone; cream to brown, some gray, fossiliferous, hard to firm, one sample with dark brown spotty stain-no cut, dull mineral fluorescence only, no visible porosity in the dry sample.

Shale; as above.

Mudstone; as above.

Shale; very colored, some arenaceous.

Wackestone; cream to tan, fossiliferous to oolitic, tight looking matrix, no show, poor sample quality, much shale here!

Topeka 3316 (-1014) A -13 B -13

Mudstone; cream to gray, hard, microcrystalline to chalky, spotty dead stain, no cut.

Wackestone; tan to cream, fossiliferous, hard to very fine crystalline, tight looking matrix, rare brown spotty stain, no cut, no odor, no visible show.

Wackestone; fossiliferous, hard, microcrystalline to chalky, no show.

Shale; most gray, soft to firm.

Wackestone; fossiliferous, cream to gray, hard, microcrystalline to very fine crystalline, dense look in wet, rare barren pinpoint porosity in dry.

Shale; most gray to dark gray, slight increase in black.

Mudstone; cream to gray, some with fossils in the matrix, most hard to brittle, microcrystalline to chalky, occasionally silky luster - crystalline, rare free dark chert.

Wackestone; fossiliferous to sub oolitic, hard to brittle, most cream in color, microcrystalline to chalky looking matrix, some very fine crystalline, no show, rare light gray free chert,

Mudstone; cream, hard, rare free blocky cream chert.

Wackestone; fossiliferous in tight looking matrix, no show.

Wackestone; cream, fossiliferous, hard, chalky to very fine crystalline matrix, scattered brown stain-no cut, rare barren pinpoint porosity, no live show.

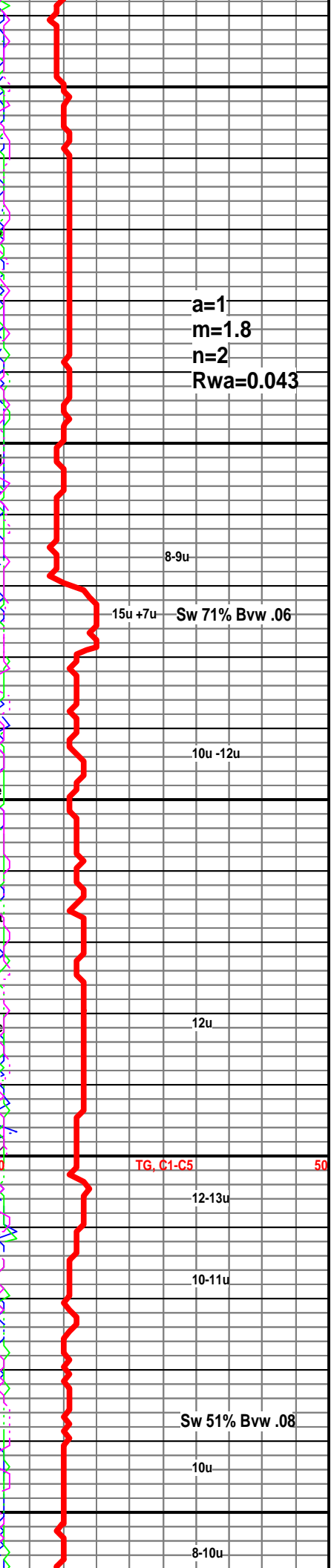
Shale; small influx black carbonaceous shale.

Mudstone; cream to gray, hard, microcrystalline to chalky, dense.

Mudstone; increase in light gray to off white chalky-soft to firm, increase in dull yellow mineral fluorescence.

Wackestone; fossiliferous, sub oolitic look, hard to brittle, chalky to microcrystalline, dense look in wet sample, rare off white chert, no show in wet sample, scattered barren pinpoint porosity in the dry sample.

Mudstone; cream to light gray, hard, rare white chert, rare barren pinpoint porosity.



a=1
m=1.8
n=2
Rwa=0.043

8-9u
15u +7u Sw 71% Bvw .06

10u -12u

12u

TG, C1-C5 50

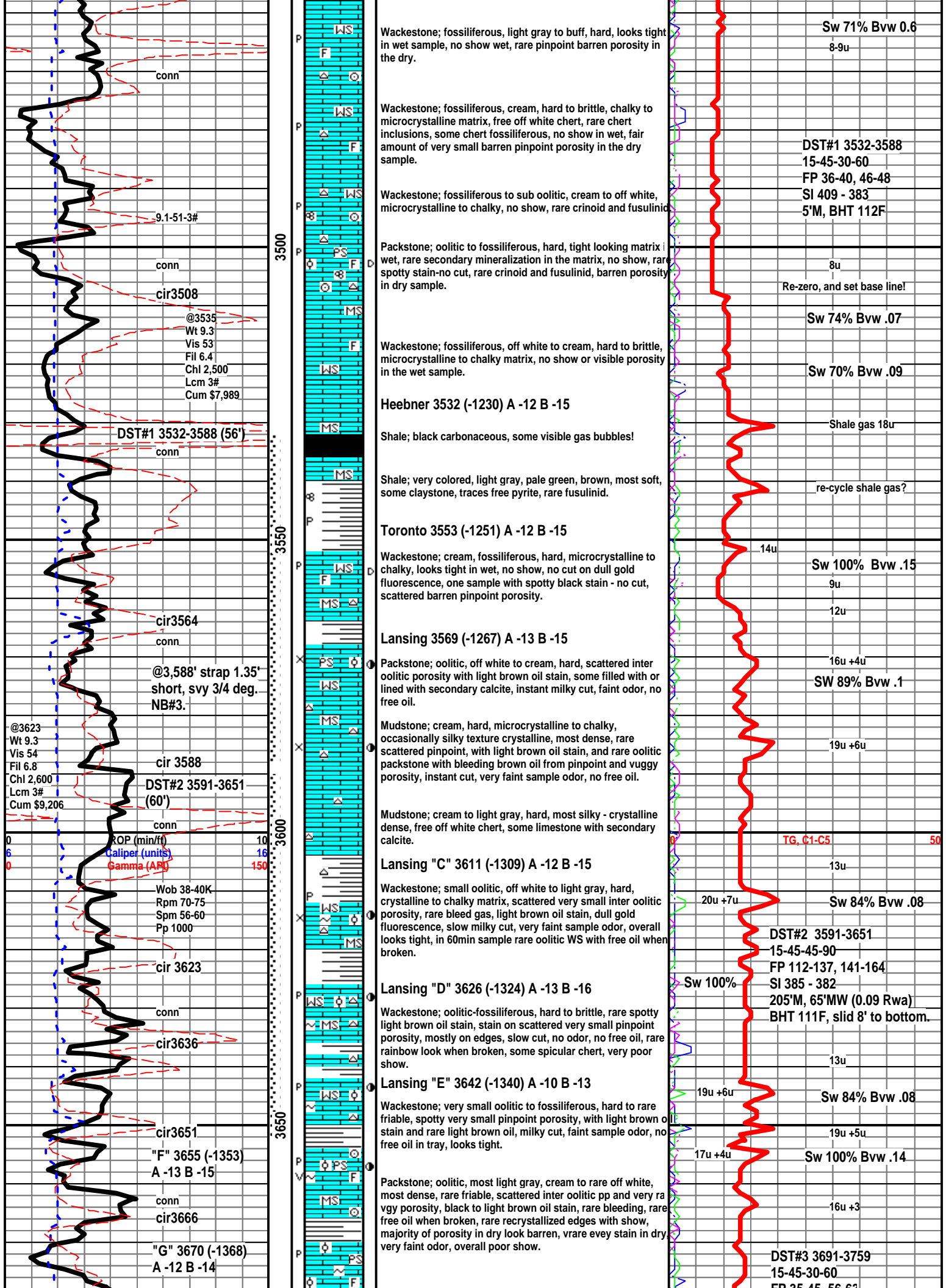
12-13u

10-11u

Sw 51% Bvw .08

10u

8-10u



conn
9.1-51-3#
conn
cir3508
@3535
Wt 9.3
Vis 53
Fil 6.4
Chl 2,500
Lcm 3#
Cum \$7,989

DST#1 3532-3588 (56')
conn

3550
cir3564
conn
@3,588' strap 1.35'
short, svy 3/4 deg.
NB#3.

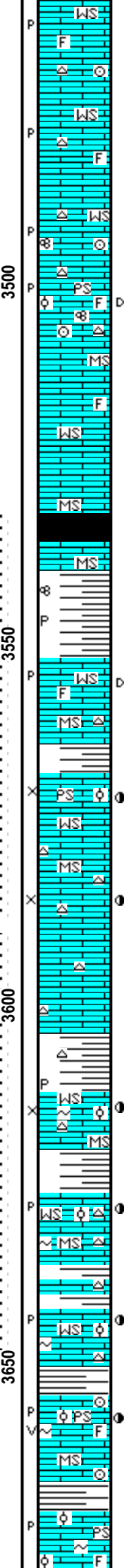
@3623
Wt 9.3
Vis 54
Fil 6.8
Chl 2,600
Lcm 3#
Cum \$9,206
cir 3588
DST#2 3591-3651 (60')
conn

ROP (min/ft) 10
Caliper (units) 16
Gamma (API) 150
Wob 38-40K
Rpm 70-75
Spm 56-60
Pp 1000
cir 3623

conn
cir3636
cir3651

"F" 3655 (-1353)
A -13 B -15
conn
cir3666

"G" 3670 (-1368)
A -12 B -14



Wackestone; fossiliferous, light gray to buff, hard, looks tight in wet sample, no show wet, rare pinpoint barren porosity in the dry.

Wackestone; fossiliferous, cream, hard to brittle, chalky to microcrystalline matrix, free off white chert, rare chert inclusions, some chert fossiliferous, no show in wet, fair amount of very small barren pinpoint porosity in the dry sample.

Wackestone; fossiliferous to sub oolitic, cream to off white, microcrystalline to chalky, no show, rare crinoid and fusulinid.

Packstone; oolitic to fossiliferous, hard, tight looking matrix in wet, rare secondary mineralization in the matrix, no show, rare spotty stain-no cut, rare crinoid and fusulinid, barren porosity in dry sample.

Wackestone; fossiliferous, off white to cream, hard to brittle, microcrystalline to chalky matrix, no show or visible porosity in the wet sample.

Heebner 3532 (-1230) A -12 B -15
Shale; black carbonaceous, some visible gas bubbles!
Shale; very colored, light gray, pale green, brown, most soft, some claystone, traces free pyrite, rare fusulinid.

Toronto 3553 (-1251) A -12 B -15
Wackestone; cream, fossiliferous, hard, microcrystalline to chalky, looks tight in wet, no show, no cut on dull gold fluorescence, one sample with spotty black stain - no cut, scattered barren pinpoint porosity.

Lansing 3569 (-1267) A -13 B -15
Packstone; oolitic, off white to cream, hard, scattered inter oolitic porosity with light brown oil stain, some filled with or lined with secondary calcite, instant milky cut, faint odor, no free oil.
Mudstone; cream, hard, microcrystalline to chalky, occasionally silky texture crystalline, most dense, rare scattered pinpoint, with light brown oil stain, and rare oolitic packstone with bleeding brown oil from pinpoint and vuggy porosity, instant cut, very faint sample odor, no free oil.

Mudstone; cream to light gray, hard, most silky - crystalline dense, free off white chert, some limestone with secondary calcite.

Lansing "C" 3611 (-1309) A -12 B -15
Wackestone; small oolitic, off white to light gray, hard, crystalline to chalky matrix, scattered very small inter oolitic porosity, rare bleed gas, light brown oil stain, dull gold fluorescence, slow milky cut, very faint sample odor, overall looks tight, in 60min sample rare oolitic WS with free oil when broken.

Lansing "D" 3626 (-1324) A -13 B -16
Wackestone; oolitic-fossiliferous, hard to brittle, rare spotty light brown oil stain, stain on scattered very small pinpoint porosity, mostly on edges, slow cut, no odor, no free oil, rare rainbow look when broken, some spicular chert, very poor show.

Lansing "E" 3642 (-1340) A -10 B -13
Wackestone; very small oolitic to fossiliferous, hard to rare friable, spotty very small pinpoint porosity, with light brown oil stain and rare light brown oil, milky cut, faint sample odor, no free oil in tray, looks tight.

Packstone; oolitic, most light gray, cream to rare off white, most dense, rare friable, scattered inter oolitic pp and very vgy porosity, black to light brown oil stain, rare bleeding, rare free oil when broken, rare recrystallized edges with show, majority of porosity in dry look barren, vryevey stain in dry, very faint odor, overall poor show.

Sw 71% Bvw 0.6
8-9u

DST#1 3532-3588
15-45-30-60
FP 36-40, 46-48
SI 409 - 383
5'M, BHT 112F

8u
Re-zero, and set base line!

Sw 74% Bvw .07

Sw 70% Bvw .09

Shale gas 18u

re-cycle shale gas?

14u
Sw 100% Bvw .15
9u
12u

16u +4u
SW 89% Bvw .1

19u +6u

TG, C1-C5 50

13u
Sw 84% Bvw .08

DST#2 3591-3651
15-45-45-90
FP 112-137, 141-164
SI 385 - 382
205'M, 65'MW (0.09 Rwa)
BHT 111F, slid 8' to bottom.

Sw 100%

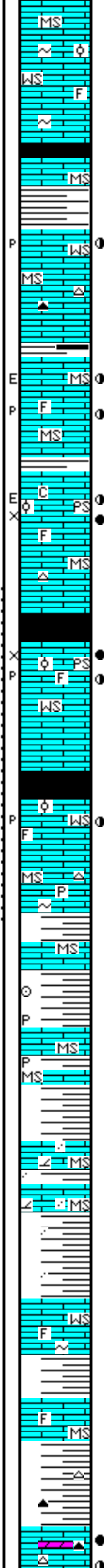
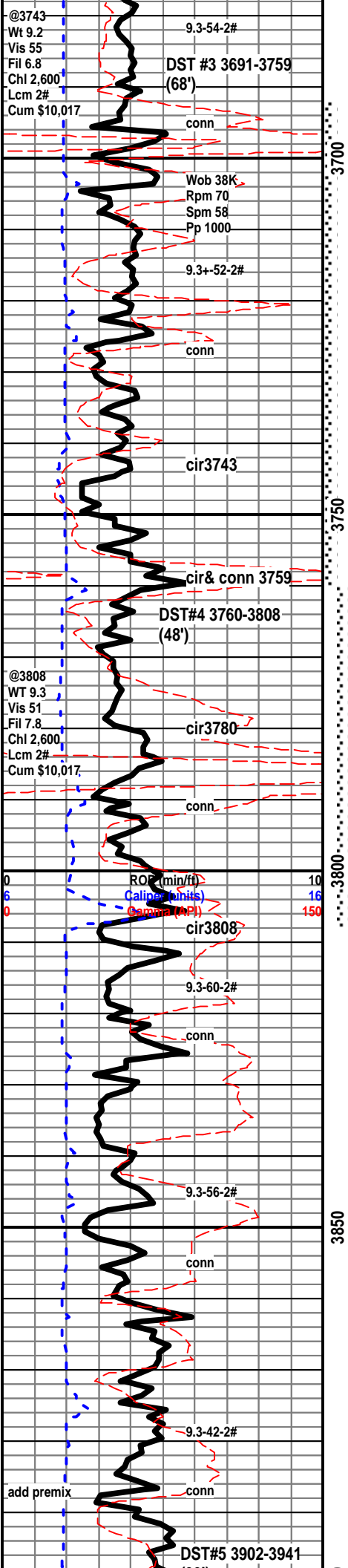
13u

19u +6u
Sw 84% Bvw .08

17u +4u
Sw 100% Bvw .14

16u +3

DST#3 3691-3759
15-45-30-60
FP 35-45, 50-60



Mudstone; cream to off white, most silky texture crystalline, some chalky, most hard to brittle, some fossiliferous, scattered fossiliferous wackestone, chalky to crystalline mud like the mudstone, dense, no show.

Shale; black, hard, carbonaceous, some gassy when broken.

Mudstone; brown, crystalline, dense, some fossils.

"H" 3711 (-1409) A -12 B -15
Wackestone; oolitic to fossiliferous, cream, most barren-tight rare spotty brown oil and oil stain, very faint odor, poor show, rare even stain in dry, most spotty, very fine scattered pp porosity.

Mudstone; light gray, cream, off white, most crystalline, free brown and off white chert.

"I" 3730 (-1428) A -12 B -14
Mudstone; with weathered edges, spotty black dead looking stain and light brown stain, dull yellow to gold fluorescence, residual ring cut only, very faint sample odor, very poor show

"J" 3745 (-1443) A -12 B -14
Chalky limestone at the top, with black gilsonitic looking stain-bleed gas, instant milky cut, fair odor. Oolitic packstone hard, rare friable, bleeding oil, visible oil in scattered vuggy porosity, some calcite lined filled with brown oil, fair odor, instant milky cut, even brown and black stain in dry, some barren porosity noted, less show with depth, changing to mudstone - tight.

"K" 3768 (-1466) A -15 B -13
Packstone; small oolitic to fossiliferous, faint odor, most spotty oil stain and very small inter foss./ool porosity, some even oil stain, again very small pp porosity, some bleeding brown oil, rare free oil in tray, overall looks tight, however bes % of show, 10%-20% of sample.

"L" 3790 (-1488) A -16 B -13
Wackestone; fossiliferous, to sub oolitic, rare pinpoint porosity with spotty brown oil stain, most on edges, rare visible oil in pore space, very faint odor.

Mudstone; cream, off white to light gray, chalky-crystalline, dense, rare brown.

B/KC 3806 (-1504) A -15 B -14
Shale; black, gray, gray-green, some red and occasional red-brown, firm to soft.

Mudstone; off white, cream to light gray, microcrystalline to chalky some with fossils.

Shale; vary colored as above, firm to soft, platy to blocky, most earthy texture.

Mudstone; off white, cream to light gray, rare arenaceous looking dolomitic limestone.

Shale; increase in red and red-brown, sample wash red here! some are arenaceous-quartz.

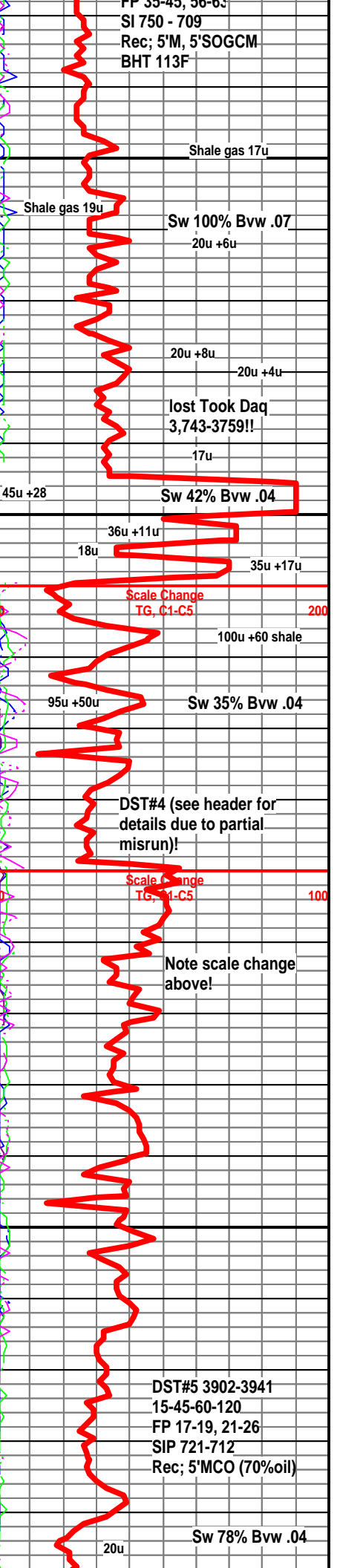
Wackestone; fossiliferou, off white, light gray, hard, dense, some with secondary calcite nodules.

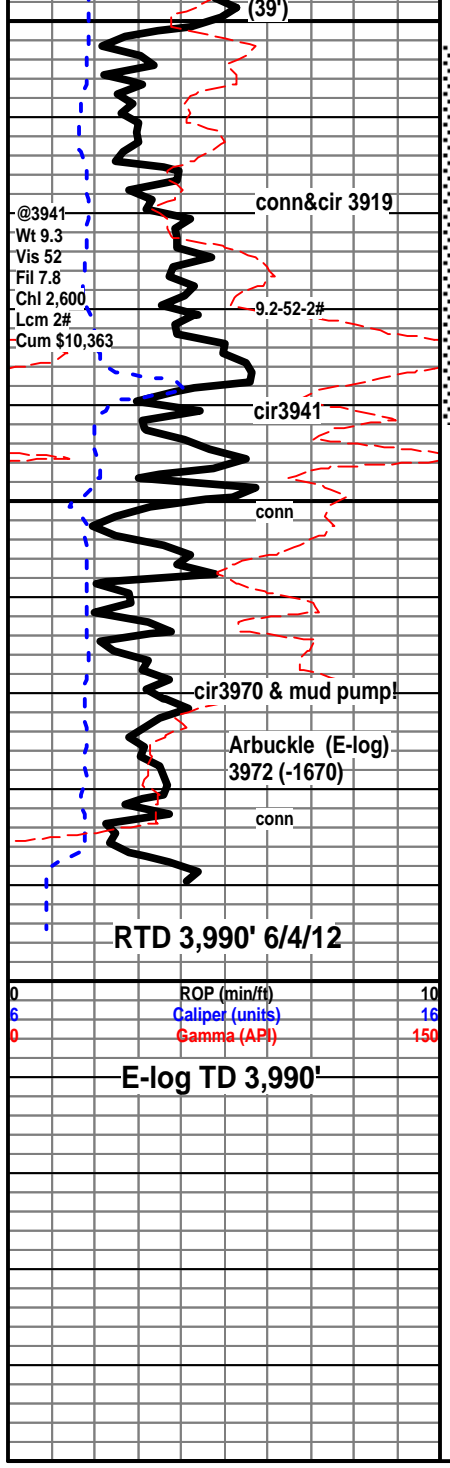
Shale; as above.

Mudstone; microcrystalline to chalky, some fossiliferous, dense looking.

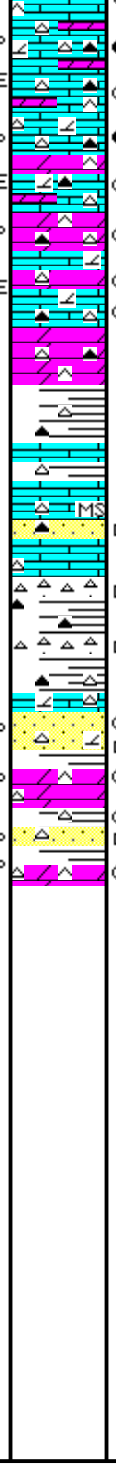
Shale; as above; very colored, influx pink, red and off white chert here!

Marmaton 3892 (-1590) A -16 B -11
Mudstone; chalky to microcrystalline some very fine





3900
3950
4000
50



crystalline, spotty oil stain, rare oil droplets, mixed with Dolomitic lime and Dolomite; very fine sucrosic, dull, hard to very hard, spotty to even brown stain, rare oil droplets, earthy to scattered very fine pinpoint porosity, instant cut to slow residual ring cut, faint odor, abundant chert, most off white to bone white, some with weathered edges oil droplets and brown stain, faint odor, rare free oil, samples look very tight overall!

As above; abundant chert, cream, off white and bone white, most look fresh, some with weathered edges with even stain and oil droplets, Mix of dolomite and siliceous dolomite, also dolomitic limestone, less even brown stain with depth, less sample odor with depth, earthy looking and scattered very fine pinpoint porosity, some with bleeding dark brown oil.

Shale; slight increase in black, pale green and gray-green shales here.

Sandstone; quartz, clear, med grn, rnd, wlsrtd, free in tray, no show, one cluster, black dead looking stain, no fluorescence, very slow milky cut, no odor.

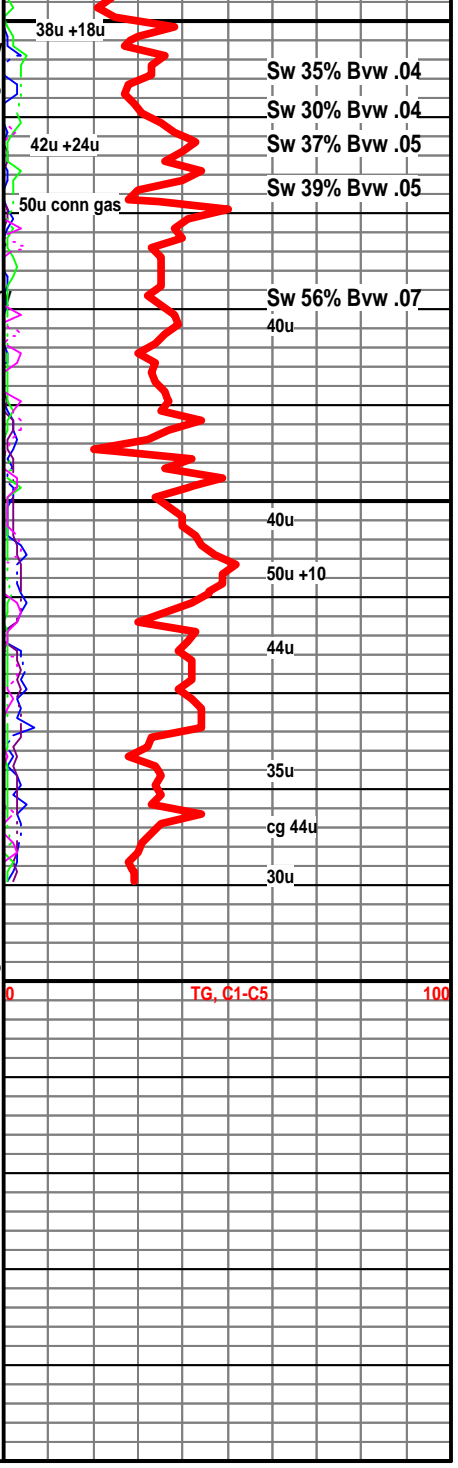
Chert; clear to off white, to vary colored, spotty black tar like stain, no fluorescence, slow milky cut, no odor, no live show.

Shale; vary colored, sample wash red!

Sandstone; dolomitic, off white, hard to friable, vfg, wlsrtd, spotty black stain, some visible black oil droplets on scattered porosity, no odor, no fluorescence, slow milky cut.

Sandstone; quartz, off white to clear, cons, mg, rnd, wlsrtd, black tar like stain, visible black oil droplets, rare dark brown oil with broken, no odor, rare very dull fluorescence, instant milky cut, most with no fluorescence, overall looks dead.

Dolomite; cream light tan, siliceous, like above microcrystalline look, much like Marmaton dolomite, very hard, spotty black stain, rare black to dark brown droplets of oil, no odor, slow milky cut.





BASICSM
ENERGY SERVICES

760802
6420

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	05/30/2012
INVOICE NUMBER		
1718 - 90916945		

Pratt (620) 672-1201

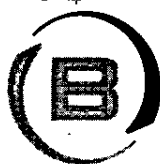
B HERMAN L LOEB LLC
I PO Box: 838
L LAWRENCEVILLE
L IL US 62439
T
O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Eva Richardson 4-19
O LOCATION
B COUNTY Trego
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40469137	27463		Net - 30 days	06/29/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 05/26/2012 to 05/26/2012				
0040469137				
171806072A.Cement-New Well Casing/Pi 05/26/2012				
Cement 8 5/8" Surface				
60740 POZ	175.00	EA	9.60	1,680.00
Celloflake	44.00	EA	2.96	130.24
Calcium Chloride	453.00	EA	0.84	380.52
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	3.40	340.00
Heavy Equipment Mileage	200.00	MI	5.60	1,120.00
"Proppant & Bulk Del. Chgs., per ton mil	755.00	EA	1.28	966.40
Depth Charge; 0-500'	1.00	EA	800.00	800.00
Blending & Mixing Service Charge	175.00	BAG	1.12	196.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	140.00	140.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,753.16
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	148.97
PO, BOX 841903	PO BOX 10460	INVOICE TOTAL	5,902.13
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



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 06072 A

DATE _____ TICKET NO. _____

DATE OF JOB 5-26-12		DISTRICT PRATT KS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:		
CUSTOMER HERMANN LOEB		LEASE EVA - Richards		4-19		WELL NO.				
ADDRESS		COUNTY Trego		STATE KS						
CITY		STATE		SERVICE CREW Sullivan, Pittsull, Young						
AUTHORIZED BY		JOB TYPE: CNW 8 3/4 Santal								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27463	30						5-26-12			10:30
70959-19918	30									2:45
37900										2:05
										7:30
										8:15
						MILES FROM STATION TO WELL 100				

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: *Roland Nepp*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 pot cement	SK	175		2,100.00
CC 102	cellulose	LB	44		162.50
CC 107	calcium chloride	LB	453		475.65
E 100	pickup mix	mi	100		475.00
E 101	Heavy Econt mix	mi	200		1,400.00
E 113	Bulk Polym	TM	755		1,208.00
CE 250	Depth charge 0-500'	SA	1		1,000.00
CK 250	Blender - misc	SK	175		245.00
SC 3	Strand separator	SA	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		DLS		5753.16	
SERVICE & EQUIPMENT	% TAX ON \$				
MATERIALS	% TAX ON \$				
<i>Thank you</i>		TOTAL			

SERVICE REPRESENTATIVE: *Robert [Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Roland Nepp*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customer's invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

Orders for products of special design, size or materials are not subject to cancellation after processing of such order has begun by BES. Equipment altered, made to Customer's specifications, or requiring special handling, is subject to special prices.

If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well, the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting therefrom, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any of our operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

Should any of our equipment, tools or instruments become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost equipment, tools or instruments and if such equipment, tools or instruments are not recovered, Customer shall pay BES its replacement cost unless such loss is due to the sole negligence of BES. If BES's equipment, tools or instruments are damaged in the well, Customer shall pay BES the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of BES.

Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor troubles, accident riot acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

General Provisions:

Wherever the initials BES appear in this document, they are intended solely to be an abbreviation of Basic Energy Services LP, and are used in substitution of such full name as if the full name were set out in each instance.

Any modifications of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this document, are hereby objected to BY REQUESTING ANY OF THE GOODS AND SERVICES SET FORTH HEREIN BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED IN THIS DOCUMENT.

BES reserves the right to change or modify the design of any BES product without obligation to furnish or install such changes or modification on products previously or subsequently sold.

Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.



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 00072 A

DATE _____ TICKET NO. _____

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.	
CUSTOMER				LEASE				WELL NO.		
ADDRESS				COUNTY		STATE				
CITY		STATE		SERVICE CREW						
AUTHORIZED BY				JOB TYPE:						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
			1		9.10 00
			11		162.50
			1		17.25
			1		425.00
			3		1,400.00
			2		1,200.00
			1		1,000.00
			1		245.00
					175.00

SUB TOTAL
DLS 5753.16

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Agreement of Terms and Conditions

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Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customer's invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

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If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting thereof, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any oil well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

Should any of our equipment, tools or instruments become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost equipment, tools or instruments and if such equipment, tools or instruments are not recovered, Customer shall pay BES its replacement cost unless such loss is due to the sole negligence of BES. If BES's equipment, tools or instruments are damaged in the well, Customer shall pay BES the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of BES.

Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

General Provisions:

Wherever the initials BES appear in this document, they are intended solely to be an abbreviation of Basic Energy Services LP, and are used in substitution of such full name as if the full name were set out in each instance.

Any modifications of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this document, are hereby objected to BY REQUESTING ANY OF THE GOODS AND SERVICES SET FORTH HEREIN BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED IN THIS DOCUMENT.

BES reserves the right to change or modify the design of any BES product without obligation to furnish or install such changes or modification on products previously or subsequently sold.

Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

Customer <i>HERMAN Leeb</i>		Lease No.		Date	
Lease <i>EVA-Richardson</i>		Well # <i>4-19</i>		<i>05-26-12</i>	
Field Order # <i>6072</i>	Station <i>PRATT 1cs</i>	Casing <i>8 5/8</i>	Depth <i>259'</i>	County <i>TREGO</i>	State <i>KS</i>
Type Job <i>CNW 8 5/8 Zinkane</i>			Formation	Legal Description <i>19-11-22</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>				Pre Pad	Max		5 Min.	
Depth <i>259'</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>15</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>SWAGE</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>245'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert [Signature]</i>
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Service Units	<i>37800</i>	<i>27463</i>	<i>20959</i>	<i>19918</i>				
Driver Names	<i>Sullivan</i>	<i>Mittell</i>	<i>Young</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:45 pm</i>					<i>on bc softy med</i>
					<i>Run 6 st. 23' lsg.</i>
<i>6:35</i>					<i>CASING ON BOTTOM</i>
<i>6:45</i>					<i>Hook Dig core</i>
<i>7:05</i>	<i>250</i>		<i>3</i>	<i>2</i>	<i>St Spacon</i>
<i>7:15</i>				<i>5</i>	<i>mix 175 st 60/40 per cent</i>
<i>7:25</i>			<i>37</i>		<i>cut mixed</i>
<i>7:30</i>	<i>300</i>			<i>4.5</i>	<i>St Disp</i>
					<i>plug down</i>
					<i>circ 15 min cut to pit</i>
					<i>SOB Complete</i>
					<i>Thank you</i>



BASICSM
ENERGY SERVICES

76922
9430

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	06/07/2012
INVOICE NUMBER		
1718 - 90923350		

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

J LEASE NAME Eva Richardson 4-19
 O LOCATION
 B COUNTY Trego
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40472397	20920			Net - 30 days	07/07/2012
<i>For Service Dates: 06/06/2012 to 06/06/2012</i>					
0040472397					
171806501A Cement-New Well Casing/Pi 06/06/2012 Cement 5 1/2" Longstring					
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
		50/50 POZ	250.00 EA	8.80	2,200.00 T
		Celloflake	63.00 EA	2.96	186.48 T
		Gypsum	1,050.00 EA	0.60	630.00 T
		FLA-322	105.00 EA	6.00	630.00 T
		Gilsonite	1,500.00 EA	0.54	804.00 T
		KCL, Potassium Chloride	566.00 EA	1.20	679.20 T
		"5 1/2" Port Collar "	1.00 EA	2,800.00	2,800.00
		"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00 EA	320.00	320.00
		"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00 EA	288.00	288.00
		"Turbolizer, 5 1/2" (Blue)"	12.00 EA	88.00	1,056.00
		"5 1/2" Basket (Blue)"	1.00 EA	232.00	232.00
		"Cement Scratchers Cable Type, 5 1/2" "	5.00 EA	60.00	300.00
		Mud Flush	1,000.00 EA	0.69	688.00 T
		"Unit Mileage Chg (PU, cars one way)"	100.00 MI	3.40	340.00
		Heavy Equipment Mileage	200.00 MI	5.60	1,120.00
		"Proppant & Bulk Del. Chgs., per ton mil	1,050.00 EA	1.28	1,344.00
		Depth Charge; 3001-4000'	1.00 EA	1,728.00	1,728.00
		Blending & Mixing Service Charge	250.00 BAG	1.12	280.00
		Plug Container Util. Chg.	1.00 EA	200.00	200.00
		"Service Supervisor, first 8 hrs on loc.	1.00 EA	140.00	140.00
PLEASE REMIT TO:				SEND OTHER CORRESPONDENCE TO:	
BASIC ENERGY SERVICES, LP		BASIC ENERGY SERVICES, LP		SUB TOTAL	15,965.68
PO BOX 841903		PO BOX 10460		TAX	395.60
DALLAS, TX 75284-1903		MIDLAND, TX 79702		INVOICE TOTAL	16,361.28



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

6646470297
FIELD SERVICE TICKET
1718 06501 A

DATE _____ TICKET NO. 601

DATE OF JOB <u>06-06-12</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 LLC</u>				LEASE <u>EVA Richardson</u> <u>4-19</u> WELL NO.:					
ADDRESS				COUNTY <u>Trego</u>		STATE <u>KS</u>			
CITY				STATE					
AUTHORIZED BY				SERVICE CREW <u>Sullivan, Wright, Phye</u>					
				JOB TYPE: <u>OPW 5 1/2" Long Str</u>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>33708-20970</u>	<u>45</u>	<u>mi</u>				<u>06-05-12</u>		<u>11:00</u>	
<u>19959-17860</u>	<u>45</u>	<u>mi</u>							
<u>37900</u>									
						ARRIVED AT JOB			<u>6:00</u>
						START OPERATION	<u>06-06-12</u>		<u>12:45</u>
						FINISH OPERATION			<u>1:30</u>
						RELEASED			<u>2:15</u>
						MILES FROM STATION TO WELL			<u>100</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, 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: Roland Dyer
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 pot cement	SK	200		2,200 00
CP 104	50/50 pot cement	ck	50		560 00
CC 102	Colfoke	lb	63		233 10
CC 113	galpsure	lb	1050		787 50
CC 129	7LA-327	lb	105		787 50
CC 201	galpsure	lb	1500		1,050 00
C 700	Potassium Chloride	lb	566		849 00
CF 481	Port Collar 5 1/2"	9A	1		3,500 00
CF 607	Latch down Plug	9A	1		400 00
CF 1251	Auto Fill stop	9A	1		360 00
CF 1651	Tubular	9A	12		1,320 00
CF 1901	BASKIT	9A	1		290 00
CF 2001	cm Screen	9A	5		375 00
CC 151	MUD Flush	gal	1000		800 00
E 100	Rock mi	mi	400		425 00
E 101	Heavy Spot mi	mi	200		1,400 00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: Robert Dyer THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Roland Dyer
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

~~1718-06502-A~~

Continuation of

DATE _____ TICKET NO. 171806501A

DATE OF JOB: 06-06-12	DISTRICT: Pratt KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER: HERMAN Koch		LEASE: CVA Richardson		4-19	WELL NO.:		
ADDRESS:		COUNTY: Trego		STATE: KS			
CITY:		STATE:		SERVICE CREW: Sullivan, Wright, Price			
AUTHORIZED BY:		JOB TYPE: ON W 5 1/2 long 8-1					

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION	6-6-12			12:45
						FINISH OPERATION				1:30
						RELEASED				2:15
						MILES FROM STATION TO WELL				

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: *Roland Price*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CE 113	Bulk Netting	TM	1050		1680 00
CE 204	Depth choker 3000-4000	FA	1		2160 00
CE 240	Blend mix - m. s. u.	SK	250		350 00
CE 504	Plus lumps - Rental	SR	1		250 00
5003	Shroud Superwire	SP	1		175 00

CHEMICAL / ACID DATA:			

		SUB TOTAL	
		DLS	15,965 68
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
<i>Thank you</i>		TOTAL	

SERVICE REPRESENTATIVE: <i>Robert Johnson</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Roland Price</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.:	

Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customers invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

Orders for products of special design, size or materials are not subject to cancellation after processing of such order has begun by BES. Equipment altered, made to Customer's specifications, or requiring special handling, is subject to special prices.

If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting thereof, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any oil well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

Should any of our equipment, tools or instruments become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost equipment, tools or instruments and if such equipment, tools or instruments are not recovered, Customer shall pay BES its replacement cost unless such loss is due to the sole negligence of BES. If BES's equipment, tools or instruments are damaged in the well, Customer shall pay BES the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of BES.

Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

General Provisions:

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Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

Customer <i>Herman Lueb LLC</i>	Lease No.	Date <i>06-06-12</i>
Lease <i>VA-Richardson</i>	Well # <i>4-17</i>	
Field Order # <i>6501</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2"</i>
		Depth <i>5189</i>
Type Job <i>CNW 5th Lumb Stg</i>	Formation	Legal Description <i>19-11-22</i>
		County <i>TRCOO</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2"</i>				Pre Pad	Max		5 Min.	
Depth <i>5189</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>94</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>2000</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>P-C</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>2971</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Fullin</i>
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Service Units	<i>37901</i>	<i>22702</i>	<i>20970</i>	<i>19759</i>	<i>19800</i>				
Driver Names	<i>Swanson</i>	<i>Wright</i>	<i>Phyllis</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:00</i>					<i>on loc. S + G on entry</i>
					<i>Run 95 sts 5" 150' cap.</i>
					<i>at 1, 2, 3, 5, 6, 10, 14, 20, 25, 40, 50</i>
					<i>inject 400 Pumps Collo. 50 @ 1850'</i>
<i>11:30</i>					<i>CRACK on Bottom</i>
<i>11:40</i>					<i>Hook up circ.</i>
<i>12:45</i>	<i>200</i>		<i>24</i>	<i>3</i>	<i>at 0100 Hook</i>
			<i>5</i>		<i>spcc</i>
			<i>49</i>	<i>5</i>	<i>mix circ 2000 st 1/2 hr 100 @ 1000</i>
					<i>run circ 5' shut down wait for pump</i>
					<i>Return Plug</i>
				<i>6</i>	<i>at 0100</i>
	<i>350</i>		<i>66</i>		<i>left Ps.</i>
	<i>600</i>			<i>4</i>	<i>Slow Rate</i>
<i>1:30</i>	<i>1500</i>		<i>95</i>	<i>2.5</i>	<i>Plug down</i>
			<i>7</i>		<i>plug 104 at 300'</i>
			<i>5</i>		<i>plug 104 at 300'</i>
					<i>-500' 6 min. life</i>
					<i>Thank</i>



DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jim Hall

Eva Richardson #4-19

19-11s-22w Trego,KS

Start Date: 2012.05.31 @ 17:39:05

End Date: 2012.06.01 @ 00:41:35

Job Ticket #: 47137 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 16:10:00

Herman L. Loeb LLC

19-11s-22w Trego,KS

Eva Richardson #4-19

DST # 1

Toronto - LKC "A"

2012.05.31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

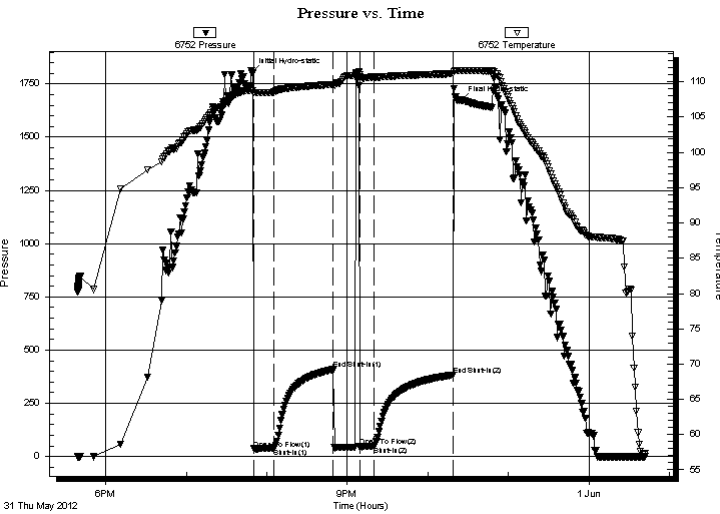
19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47137 **DST#: 1**
 Test Start: 2012.05.31 @ 17:39:05

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:50:35
 Time Test Ended: 00:41:35
 Interval: **3532.00 ft (KB) To 3588.00 ft (KB) (TVD)**
 Total Depth: 3588.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2302.00 ft (KB)
 2291.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 48.14 psig @ 3570.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.31 End Date: 2012.06.01 Last Calib.: 2012.06.01
 Start Time: 17:39:06 End Time: 00:41:35 Time On Btm: 2012.05.31 @ 19:49:05
 Time Off Btm: 2012.05.31 @ 22:24:35

TEST COMMENT: IFP - sur blow - died 3 min
 ISI - no blow back
 FFP - no blow - flush - sur blow - died 30 sec
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.91	108.73	Initial Hydro-static
2	35.56	108.51	Open To Flow (1)
16	39.67	108.55	Shut-In(1)
61	408.80	109.66	End Shut-In(1)
80	45.68	111.01	Open To Flow (2)
91	48.14	110.62	Shut-In(2)
150	382.77	111.17	End Shut-In(2)
156	1673.96	111.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drl mud 100%	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47137 **DST#: 1**
 Test Start: 2012.05.31 @ 17:39:05

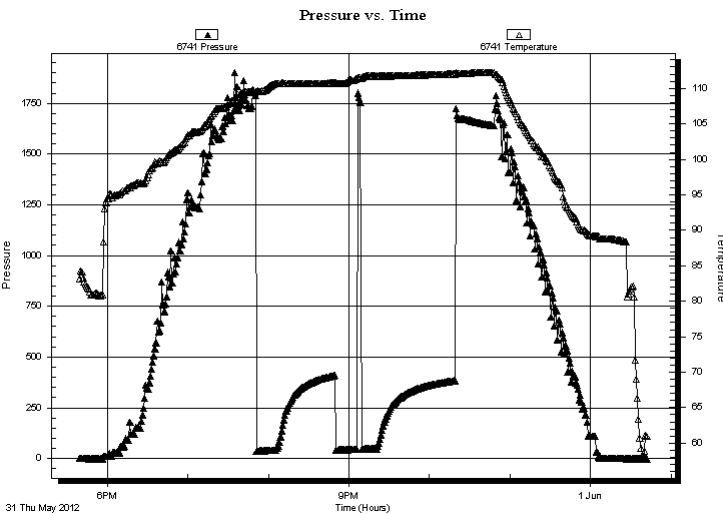
GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:50:35 Tester: Brian Fairbank
 Time Test Ended: 00:41:35 Unit No: 41
 Interval: **3532.00 ft (KB) To 3588.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)
 Total Depth: 3588.00 ft (KB) (TVD) 2291.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6741 Outside

Press @ RunDepth: psig @ 3570.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.31 End Date: 2012.06.01 Last Calib.: 2012.06.01
 Start Time: 17:39:21 End Time: 00:42:04 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP - sur blow - died 3 min
 ISI - no blow back
 FFP - no blow - flush - sur blow - died 30 sec
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drl mud 100%	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47137 **DST#: 1**
 Test Start: 2012.05.31 @ 17:39:05

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.80 inches	Volume: 46.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 47.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	3532.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3510.00	
Hydraulic tool	5.00			3515.00	
Jars	5.00			3520.00	
Safety Joint	2.00			3522.00	
Packer	5.00			3527.00	27.00 Bottom Of Top Packer
Packer	5.00			3532.00	
Stubb	1.00			3533.00	
Perforations	3.00			3536.00	
Change Over Sub	1.00			3537.00	
Blank Spacing	32.00			3569.00	
Change Over Sub	1.00			3570.00	
Recorder	0.00	6752	Inside	3570.00	
Recorder	0.00	6741	Outside	3570.00	
Perforations	15.00			3585.00	
Bullnose	3.00			3588.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
Job Ticket: 47137 **DST#: 1**
Test Start: 2012.05.31 @ 17:39:05

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:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drl mud 100%	0.025

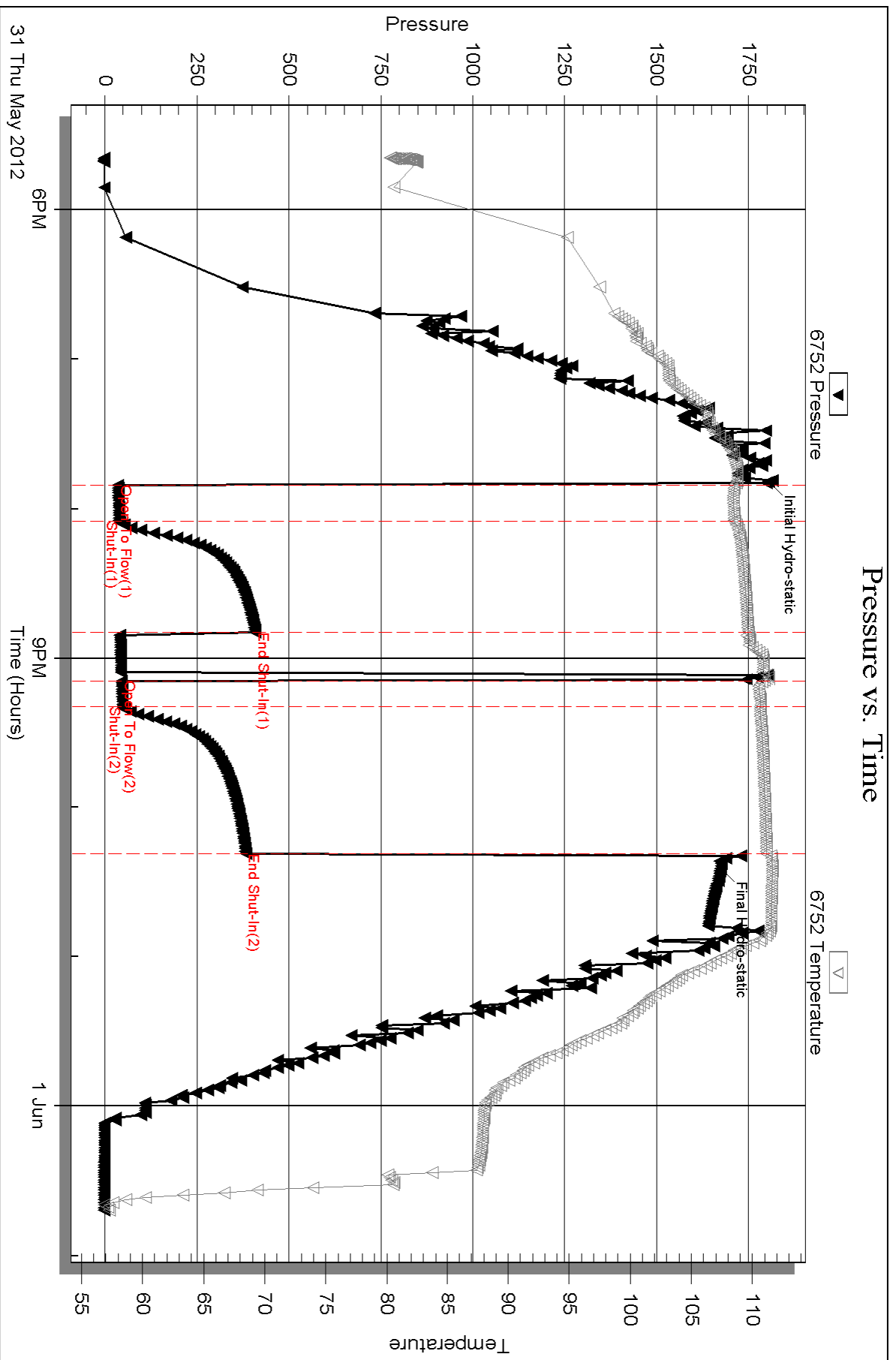
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

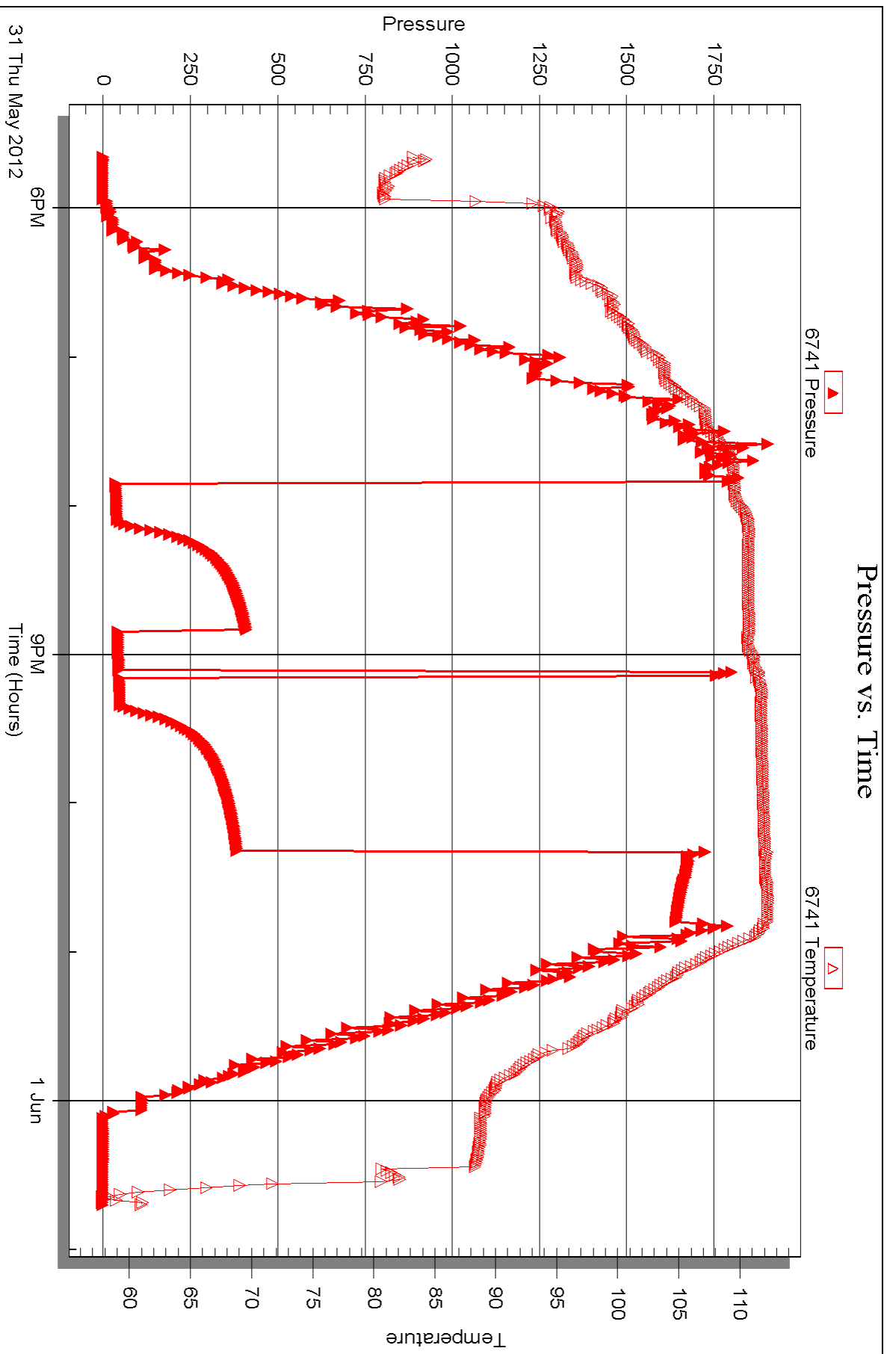


Serial #: 6741

Outside Herman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jim Hall

Eva Richardson #4-19

19-11s-22w Trego,KS

Start Date: 2012.06.01 @ 13:44:13

End Date: 2012.06.01 @ 20:58:43

Job Ticket #: 47138 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 16:09:17

Herman L. Loeb LLC
19-11s-22w Trego,KS
Eva Richardson #4-19
DST # 2
LKC "C-E"
2012.06.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47138 **DST#: 2**
 Test Start: 2012.06.01 @ 13:44:13

GENERAL INFORMATION:

Formation: **LKC "C-E"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:57:13 Tester: Brian Fairbank
 Time Test Ended: 20:58:43 Unit No: 41
 Interval: **3591.00 ft (KB) To 3651.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)
 Total Depth: 3651.00 ft (KB) (TVD) 2291.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

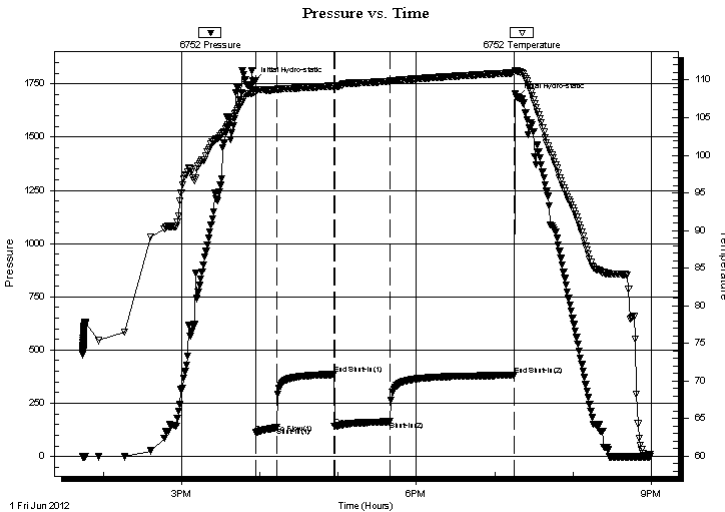
Serial #: 6752

Inside

Press @ Run Depth: 164.00 psig @ 3628.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.01 End Date: 2012.06.01 Last Calib.: 2012.06.01
 Start Time: 13:44:14 End Time: 20:58:43 Time On Btm: 2012.06.01 @ 15:55:43
 Time Off Btm: 2012.06.01 @ 19:17:13

TEST COMMENT: IFP - weak blow throughout sur - 1"
 ISI - no blow back
 FFP - no blow 4 min - 1/4"
 FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.49	108.40	Initial Hydro-static
2	111.55	108.71	Open To Flow (1)
17	136.84	108.72	Shut-In(1)
61	385.25	109.23	End Shut-In(1)
62	141.02	109.18	Open To Flow (2)
104	164.00	109.85	Shut-In(2)
199	381.63	110.96	End Shut-In(2)
202	1686.98	111.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 85%W, 15%M	0.32
205.00	DRL MUD 100%	1.19

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47138 **DST#: 2**
 Test Start: 2012.06.01 @ 13:44:13

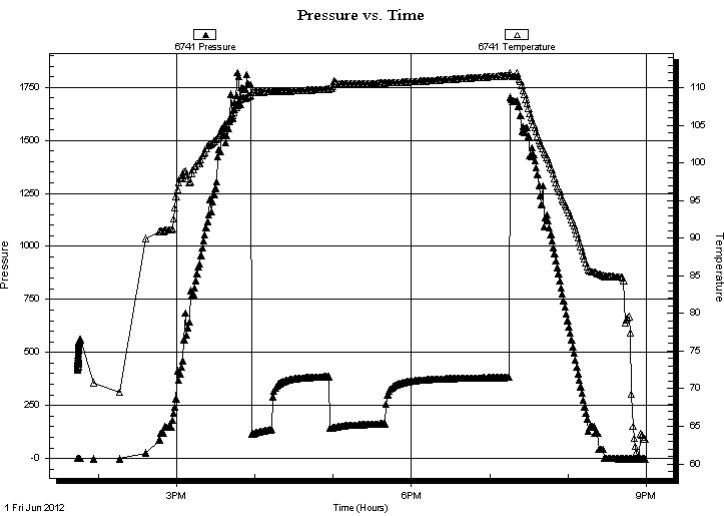
GENERAL INFORMATION:

Formation: LKC "C-E"		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 15:57:13		Tester: Brian Fairbank
Time Test Ended: 20:58:43		Unit No: 41
Interval: 3591.00 ft (KB) To 3651.00 ft (KB) (TVD)		Reference Elevations: 2302.00 ft (KB)
Total Depth: 3651.00 ft (KB) (TVD)		2291.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft

Serial #: 6741 Outside

Press @ Run Depth: psig @	3628.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.06.01	End Date:	2012.06.01
Start Time:	13:44:13	End Time:	20:58:42
		Last Calib.:	2012.06.01
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IFP - weak blow throughout sur - 1"
 ISI - no blow back
 FFP - no blow 4 min - 1/4"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 85%W, 15%M	0.32
205.00	DRL MUD 100%	1.19

* 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
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47138 **DST#: 2**
 Test Start: 2012.06.01 @ 13:44:13

Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 105000.0 lb
			Total Volume: 47.76 bbl	Tool Chased 8.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	3591.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3569.00	
Hydraulic tool	5.00			3574.00	
Jars	5.00			3579.00	
Safety Joint	2.00			3581.00	
Packer	5.00			3586.00	27.00 Bottom Of Top Packer
Packer	5.00			3591.00	
Stubb	1.00			3592.00	
Perforations	2.00			3594.00	
Change Over Sub	1.00			3595.00	
Blank Spacing	32.00			3627.00	
Change Over Sub	1.00			3628.00	
Recorder	0.00	6752	Inside	3628.00	
Recorder	0.00	6741	Outside	3628.00	
Perforations	20.00			3648.00	
Bullnose	3.00			3651.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47138 **DST#: 2**
 Test Start: 2012.06.01 @ 13:44:13

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: 54000 ppm	
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

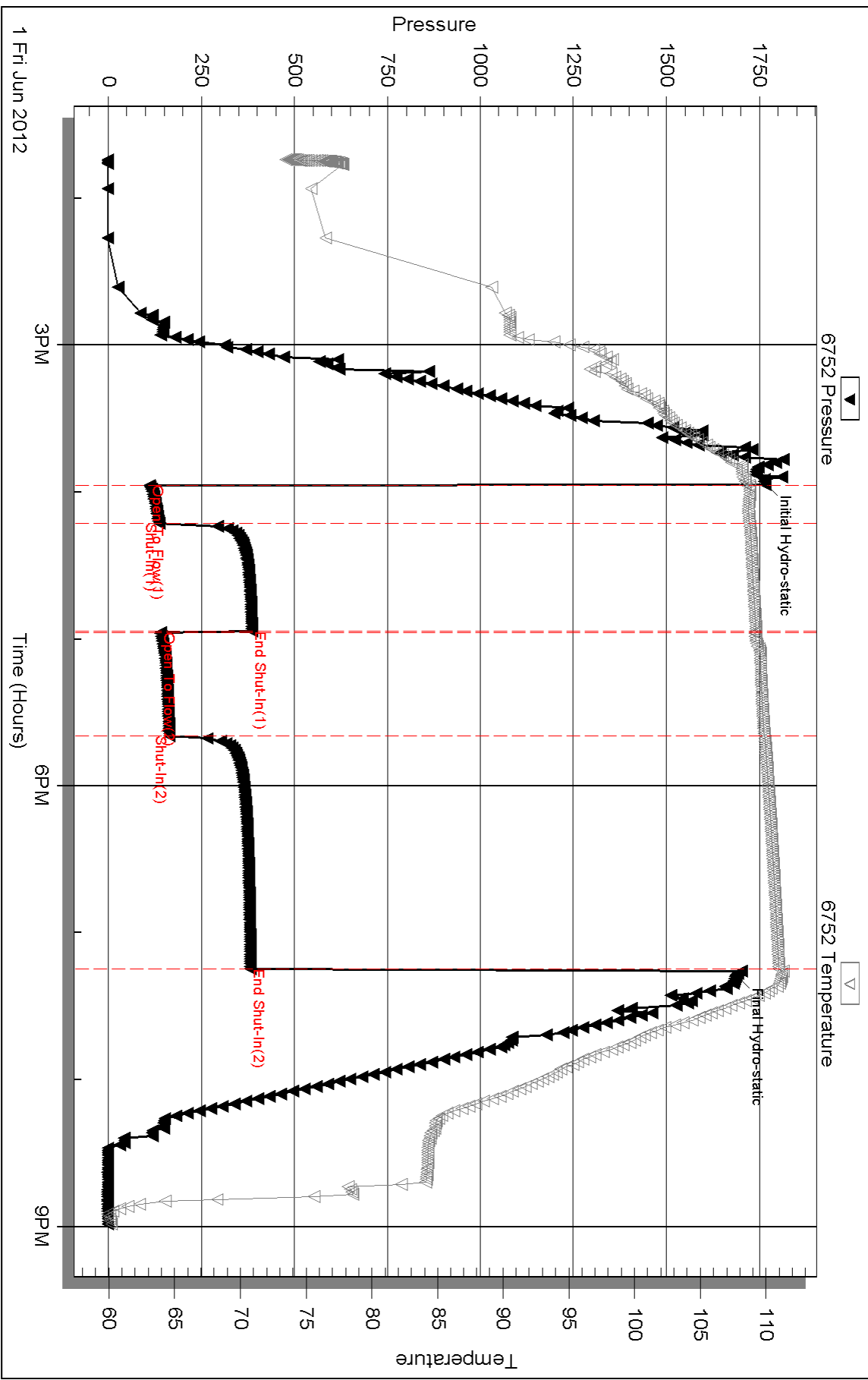
Recovery Information

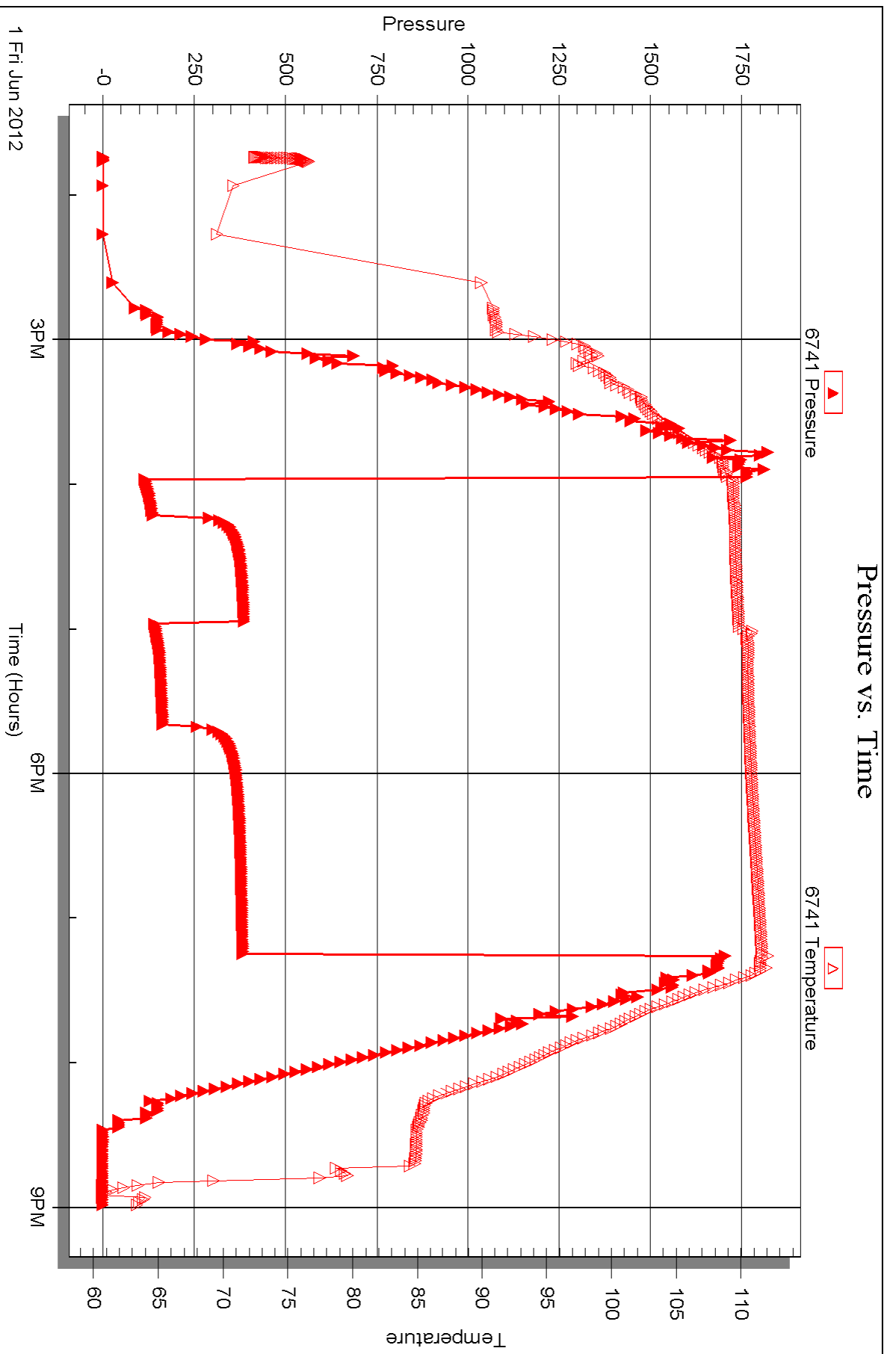
Recovery Table

Length ft	Description	Volume bbl
65.00	MW 85%W, 15%M	0.320
205.00	DRL MUD 100%	1.190

Total Length: 270.00 ft Total Volume: 1.510 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jim Hall

Eva Richardson #4-19

19-11s-22w Trego,KS

Start Date: 2012.06.02 @ 11:32:20

End Date: 2012.06.02 @ 18:02:50

Job Ticket #: 47139 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 16:08:25

Herman L. Loeb LLC

19-11s-22w Trego,KS

Eva Richardson #4-19

DST # 3

LKC "H-J"

2012.06.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47139 **DST#: 3**
 Test Start: 2012.06.02 @ 11:32:20

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:44:20 Tester: Brian Fairbank
 Time Test Ended: 18:02:50 Unit No: 41
 Interval: **3691.00 ft (KB) To 3759.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)
 Total Depth: 3759.00 ft (KB) (TVD) 2291.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

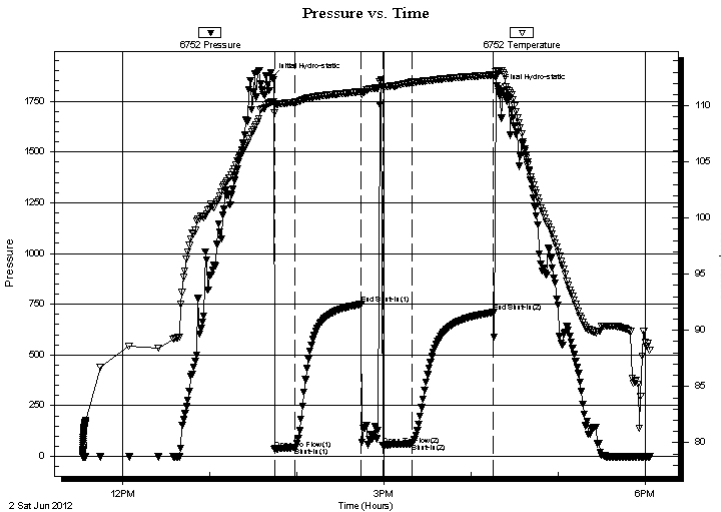
Serial #: 6752

Inside

Press @ Run Depth: 62.66 psig @ 3731.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.02 End Date: 2012.06.02 Last Calib.: 2012.06.02
 Start Time: 11:32:21 End Time: 18:02:50 Time On Btm: 2012.06.02 @ 13:42:50
 Time Off Btm: 2012.06.02 @ 16:18:20

TEST COMMENT: IFP - sur blow throughout
 ISI - no blow back
 FFP - sur blow - died 30 sec - flush - sur blow - died 17 min
 FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.45	110.35	Initial Hydro-static
2	34.94	109.38	Open To Flow (1)
16	44.98	110.33	Shut-In(1)
62	749.55	111.27	End Shut-In(1)
76	56.18	111.69	Open To Flow (2)
96	62.66	112.12	Shut-In(2)
153	709.37	112.76	End Shut-In(2)
156	1810.56	113.14	Final Hydro-static

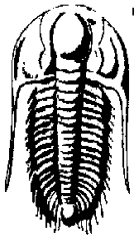
Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSGOCM 5%G, 5%O, 90%M	0.02
5.00	DRL MUD 100%	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L. Loeb LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
Job Ticket: 47139 **DST#: 3**
Test Start: 2012.06.02 @ 11:32:20

GENERAL INFORMATION:

Formation: **LKC "H-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:44:20
Time Test Ended: 18:02:50
Interval: 3691.00 ft (KB) To 3759.00 ft (KB) (TVD)
Total Depth: 3759.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

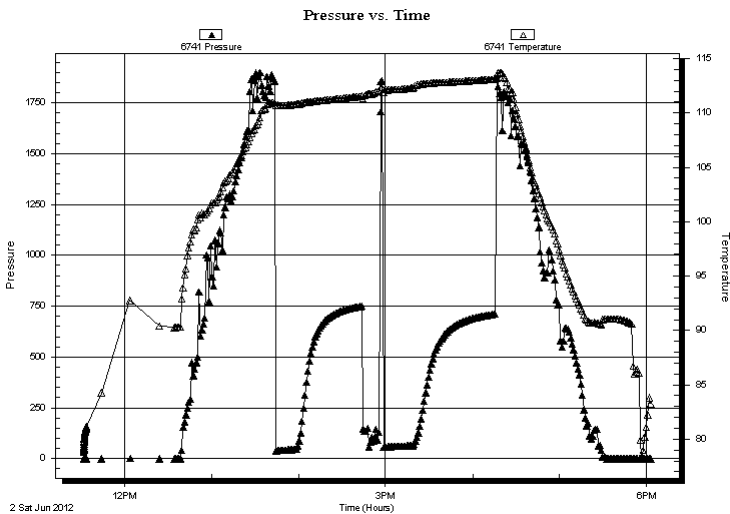
Test Type: Conventional Bottom Hole (Reset)
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2302.00 ft (KB)
2291.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 Outside

Press @ Run Depth:	psig @	3731.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.06.02	End Date:	2012.06.02	Last Calib.:	2012.06.02
Start Time:	11:32:08	End Time:	18:02:37	Time On Btm:	
			Time Off Btm:		

TEST COMMENT: IFP - sur blow throughout
ISI - no blow back
FFP - sur blow - died 30 sec - flush - sur blow - died 17 min
FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSGOCM 5%G, 5%O, 90%M	0.02
5.00	DRL MUD 100%	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47139 **DST#: 3**
 Test Start: 2012.06.02 @ 11:32:20

Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 95000.00 lb
			Total Volume: 49.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	3691.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3669.00	
Hydraulic tool	5.00			3674.00	
Jars	5.00			3679.00	
Safety Joint	2.00			3681.00	
Packer	5.00			3686.00	27.00 Bottom Of Top Packer
Packer	5.00			3691.00	
Stubb	1.00			3692.00	
Perforations	5.00			3697.00	
Change Over Sub	1.00			3698.00	
Blank Spacing	32.00			3730.00	
Change Over Sub	1.00			3731.00	
Recorder	0.00	6752	Inside	3731.00	
Recorder	0.00	6741	Outside	3731.00	
Perforations	25.00			3756.00	
Bullnose	3.00			3759.00	68.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47139 **DST#: 3**
 Test Start: 2012.06.02 @ 11:32:20

Mud and Cushion Information

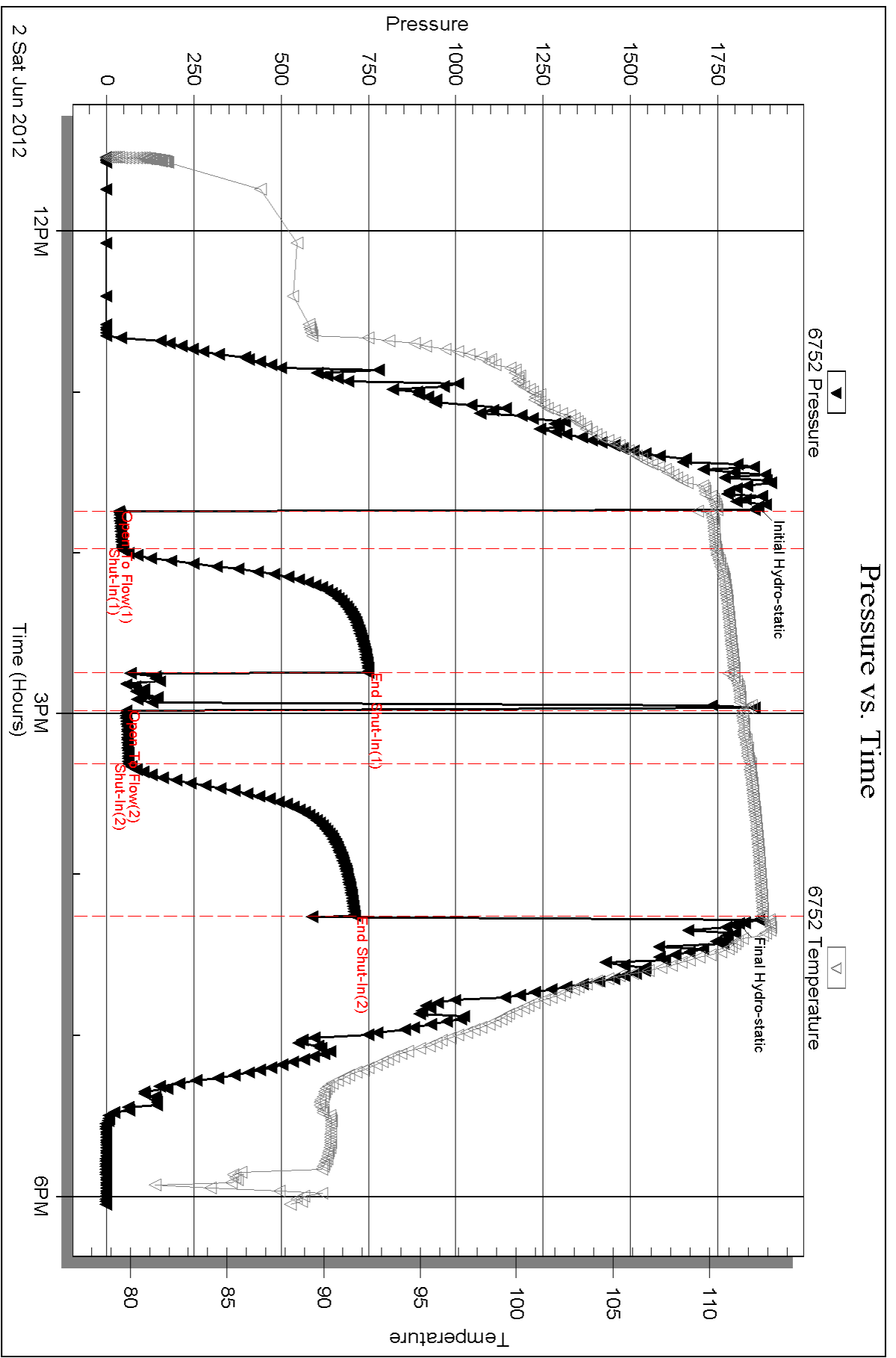
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

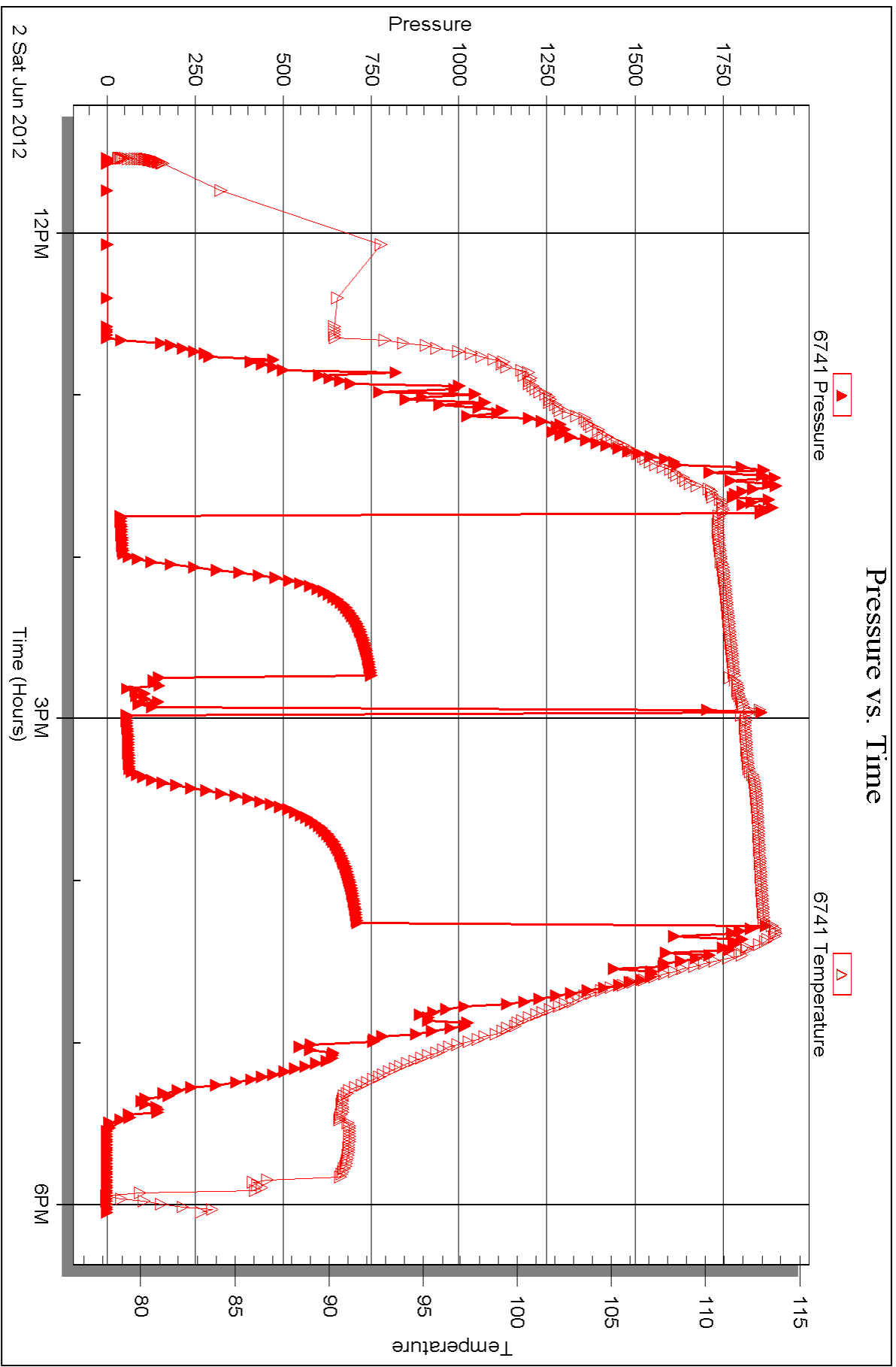
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSGOCM 5%G, 5%O, 90%M	0.025
5.00	DRL MUD 100%	0.025

Total Length: 10.00 ft Total Volume: 0.050 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jim Hall

Eva Richardson #4-19

19-11s-22w Trego,KS

Start Date: 2012.06.03 @ 06:25:03

End Date: 2012.06.03 @ 12:54:03

Job Ticket #: 47140 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 16:07:38

Herman L. Loeb LLC
19-11s-22w Trego,KS
Eva Richardson #4-19
DST # 4
LKC "K-L"
2012.06.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47140 **DST#: 4**
 Test Start: 2012.06.03 @ 06:25:03

GENERAL INFORMATION:

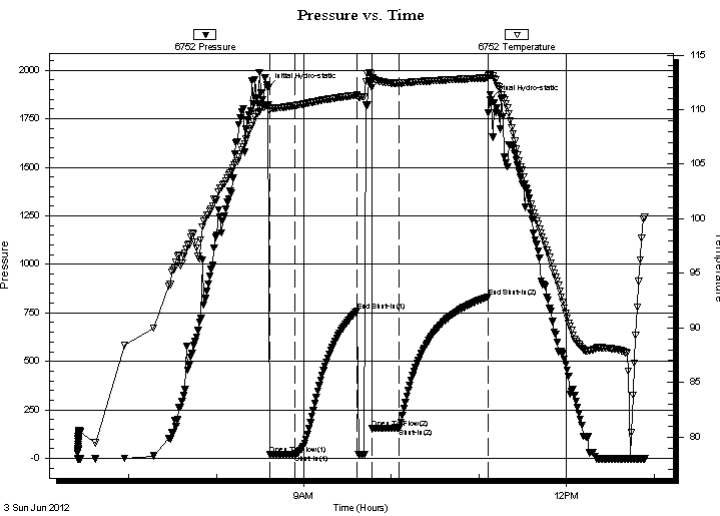
Formation: **LKC "K-L"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:36:33 Tester: Brian Fairbank
 Time Test Ended: 12:54:03 Unit No: 41
 Interval: **3760.00 ft (KB) To 3808.00 ft (KB) (TVD)** Reference Elevations: 2302.00 ft (KB)
 Total Depth: 3808.00 ft (KB) (TVD) 2291.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 157.36 psig @ 3800.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.03 End Date: 2012.06.03 Last Calib.: 2012.06.03
 Start Time: 06:25:04 End Time: 12:54:03 Time On Btm: 2012.06.03 @ 08:35:03
 Time Off Btm: 2012.06.03 @ 11:08:03

TEST COMMENT: IFP - sur blow - died 6 min
 ISI - no blow back
 FFP - no blow - flush - sur blow - died 1 min
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1911.59	110.44	Initial Hydro-static
2	20.67	109.90	Open To Flow (1)
19	22.36	110.39	Shut-In(1)
62	758.47	111.33	End Shut-In(1)
72	153.15	112.91	Open To Flow (2)
91	157.36	112.43	Shut-In(2)
151	831.22	112.92	End Shut-In(2)
153	1847.94	113.15	Final Hydro-static

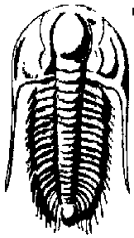
Recovery

Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
10.00	VSOCM 5%O, 95%M	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

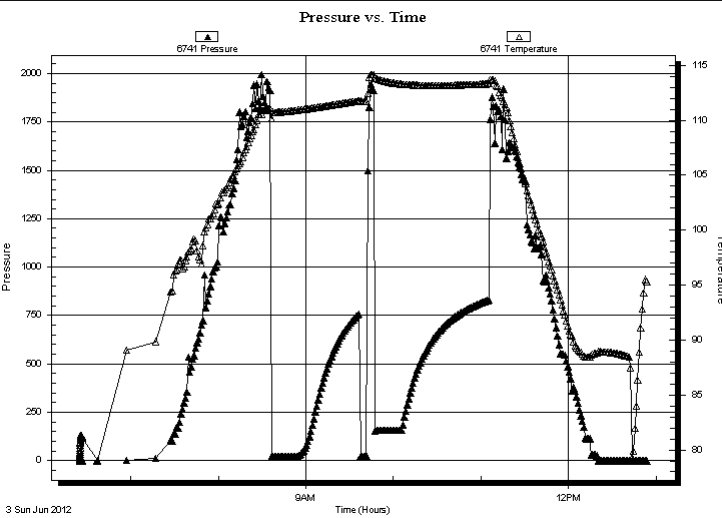
19-11s-22w Trego,KS
Eva Richardson #4-19
Job Ticket: 47140 **DST#: 4**
Test Start: 2012.06.03 @ 06:25:03

GENERAL INFORMATION:

Formation: **LKC "K-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:36:33
Time Test Ended: 12:54:03
Interval: 3760.00 ft (KB) To 3808.00 ft (KB) (TVD)
Total Depth: 3808.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2302.00 ft (KB)
2291.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6741 Outside
Press @ Run Depth: psig @ 3800.00 ft (KB)
Start Date: 2012.06.03 End Date: 2012.06.03 Capacity: 8000.00 psig
Start Time: 06:25:03 End Time: 12:54:02 Last Calib.: 2012.06.03
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - sur blow - died 6 min
ISI - no blow back
FFP - no blow - flush - sur blow - died 1 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
240.00	DRL MUD 100%	1.18
10.00	VSOCM 5%O, 95%M	0.05

* 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
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47140 **DST#: 4**
 Test Start: 2012.06.03 @ 06:25:03

Tool Information

Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 50.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	3760.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: lost 30' mud when flush tool

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3738.00	
Hydraulic tool	5.00			3743.00	
Jars	5.00			3748.00	
Safety Joint	2.00			3750.00	
Packer	5.00			3755.00	27.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Perforations	5.00			3766.00	
Change Over Sub	1.00			3767.00	
Blank Spacing	32.00			3799.00	
Change Over Sub	1.00			3800.00	
Recorder	0.00	6752	Inside	3800.00	
Recorder	0.00	6741	Outside	3800.00	
Perforations	5.00			3805.00	
Bullnose	3.00			3808.00	48.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
Job Ticket: 47140 **DST#: 4**
Test Start: 2012.06.03 @ 06:25:03

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:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	DRL MUD 100%	1.180
10.00	VSOCM 5%O, 95%M	0.049

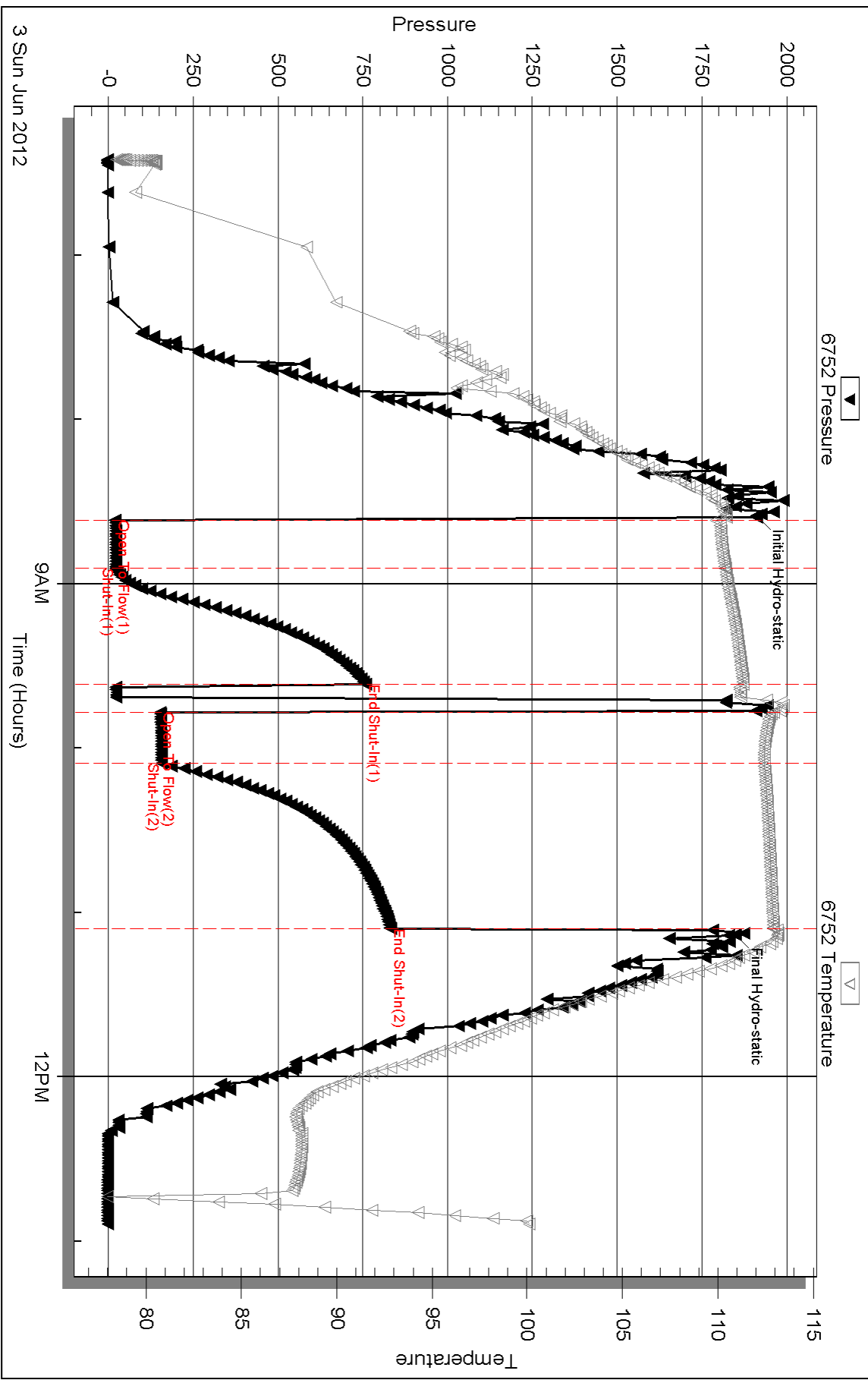
Total Length: 250.00 ft Total Volume: 1.229 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

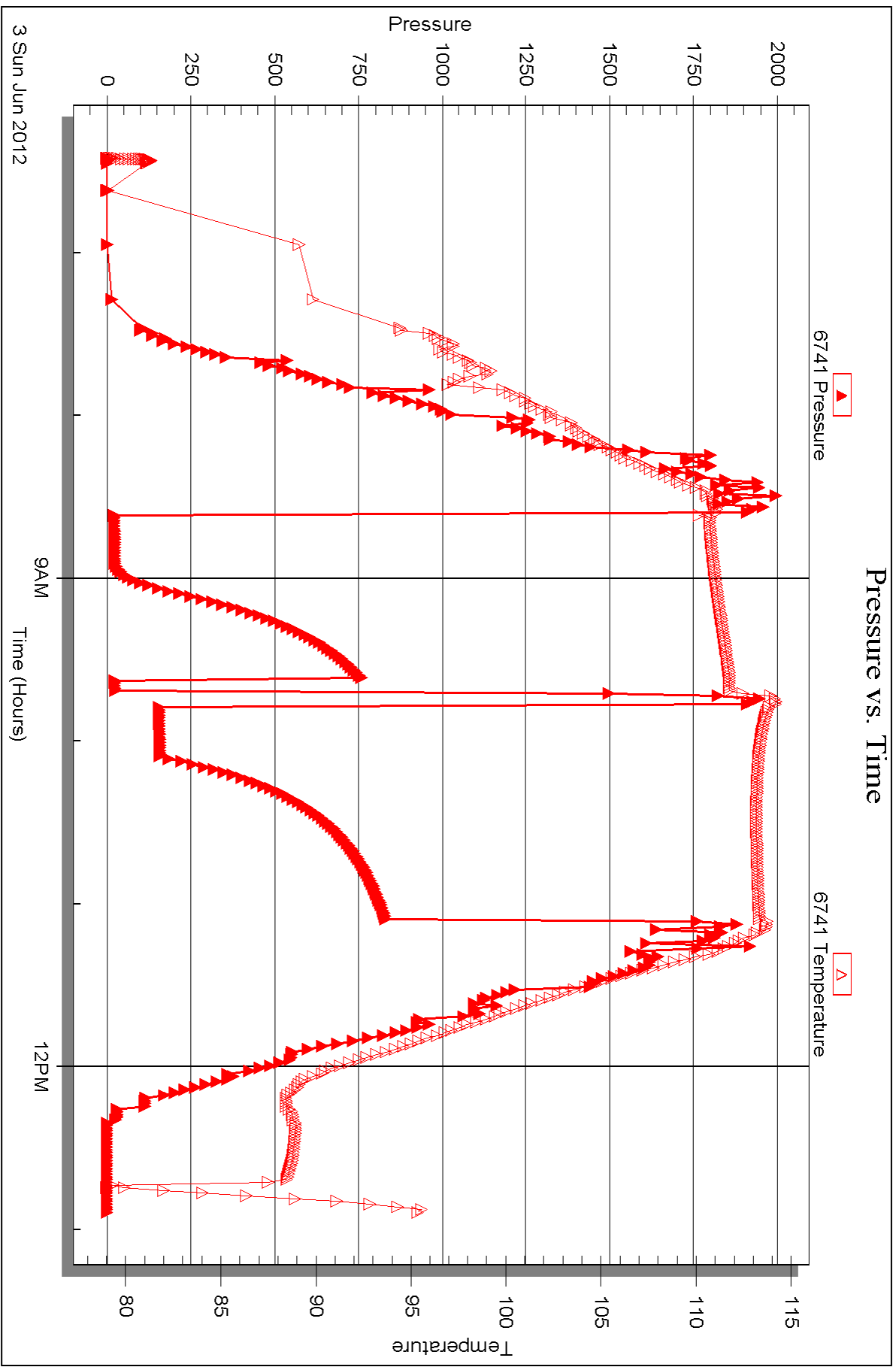


Serial #: 6741

Outside Herman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 4





DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jim Hall

Eva Richardson #4-19

19-11s-22w Trego,KS

Start Date: 2012.06.04 @ 05:40:46

End Date: 2012.06.04 @ 14:33:46

Job Ticket #: 47141 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.13 @ 16:06:44



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
 Job Ticket: 47141 **DST#: 5**
 Test Start: 2012.06.04 @ 05:40:46

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:09:16
 Time Test Ended: 14:33:46
 Interval: **3902.00 ft (KB) To 3941.0 ft (KB) (TVD)**
 Total Depth: 3941.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2302.00 ft (KB)
 2291.00 ft (CF)
 KB to GR/CF: 11.00 ft

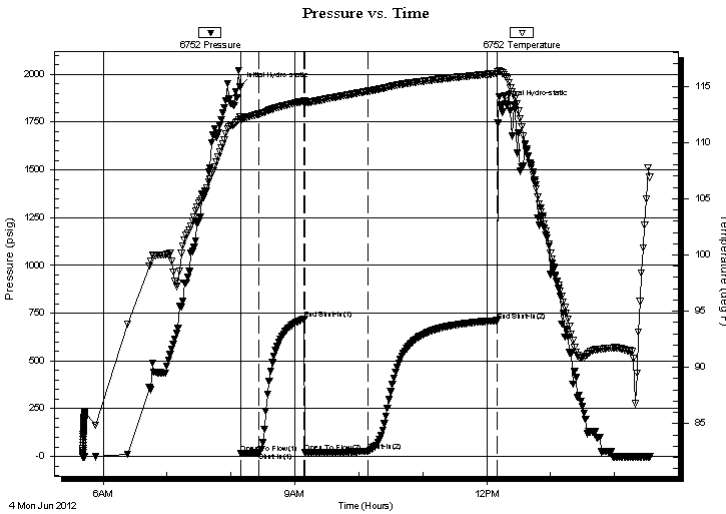
Serial #: 6752

Inside

Press @ Run Depth: 25.73 psig @ 3938.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.04 End Date: 2012.06.04 Last Calib.: 2012.06.04
 Start Time: 05:40:47 End Time: 14:33:46 Time On Btm: 2012.06.04 @ 08:08:16
 Time Off Btm: 2012.06.04 @ 12:12:46

TEST COMMENT: IFP - sur blow - died 4 min
 ISI - no blow back
 FFP - no blow
 FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.85	112.26	Initial Hydro-static
1	17.46	112.06	Open To Flow (1)
18	19.10	112.53	Shut-In(1)
61	720.64	113.67	End Shut-In(1)
61	20.52	113.53	Open To Flow (2)
120	25.73	114.55	Shut-In(2)
242	711.59	116.14	End Shut-In(2)
245	1841.80	116.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MCO 70%O, 30%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L. Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47141 **DST#: 5**
 Test Start: 2012.06.04 @ 05:40:46

GENERAL INFORMATION:

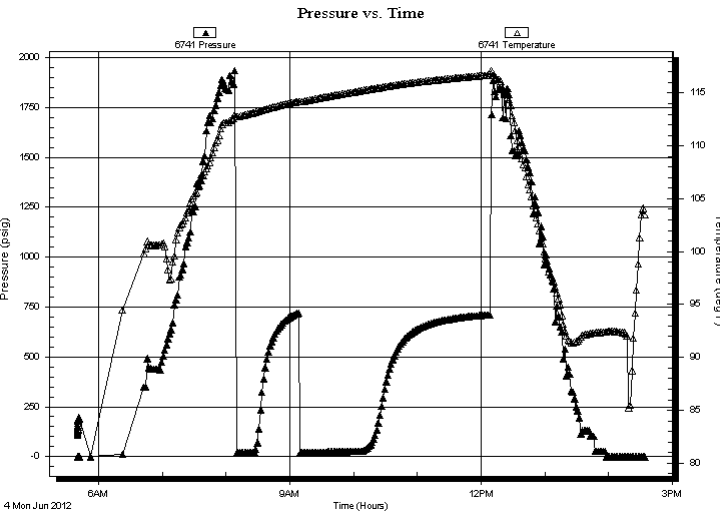
Formation:	Marmaton		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	08:09:16		Tester: Brian Fairbank
Time Test Ended:	14:33:46		Unit No: 41
Interval:	3902.00 ft (KB) To 39441.0 ft (KB) (TVD)		Reference Elevations: 2302.00 ft (KB)
Total Depth:	3941.00 ft (KB) (TVD)		2291.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft

Serial #: 6741

Outside

Press @ Run Depth:	psig @	3938.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.06.04	End Date:	2012.06.04	Last Calib.:	2012.06.04
Start Time:	05:40:19	End Time:	14:33:48	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IFP - sur blow - died 4 min
 ISI - no blow back
 FFP - no blow
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MCO 70%O, 30%M	0.02

* 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
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jim Hall

19-11s-22w Trego, KS
Eva Richardson #4-19
 Job Ticket: 47141 **DST#: 5**
 Test Start: 2012.06.04 @ 05:40:46

Tool Information

Drill Pipe:	Length: 3636.00 ft	Diameter: 3.80 inches	Volume: 51.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 52.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	3902.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3880.00	
Hydraulic tool	5.00			3885.00	
Jars	5.00			3890.00	
Safety Joint	2.00			3892.00	
Packer	5.00			3897.00	27.00 Bottom Of Top Packer
Packer	5.00			3902.00	
Stubb	1.00			3903.00	
Perforations	1.00			3904.00	
Change Over Sub	1.00			3905.00	
Blank Spacing	32.00			3937.00	
Change Over Sub	1.00			3938.00	
Recorder	0.00	6752	Inside	3938.00	
Recorder	0.00	6741	Outside	3938.00	
Bullnose	3.00			3941.00	39.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jim Hall

19-11s-22w Trego,KS
Eva Richardson #4-19
Job Ticket: 47141 **DST#: 5**
Test Start: 2012.06.04 @ 05:40:46

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:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MCO 70%O, 30%M	0.025

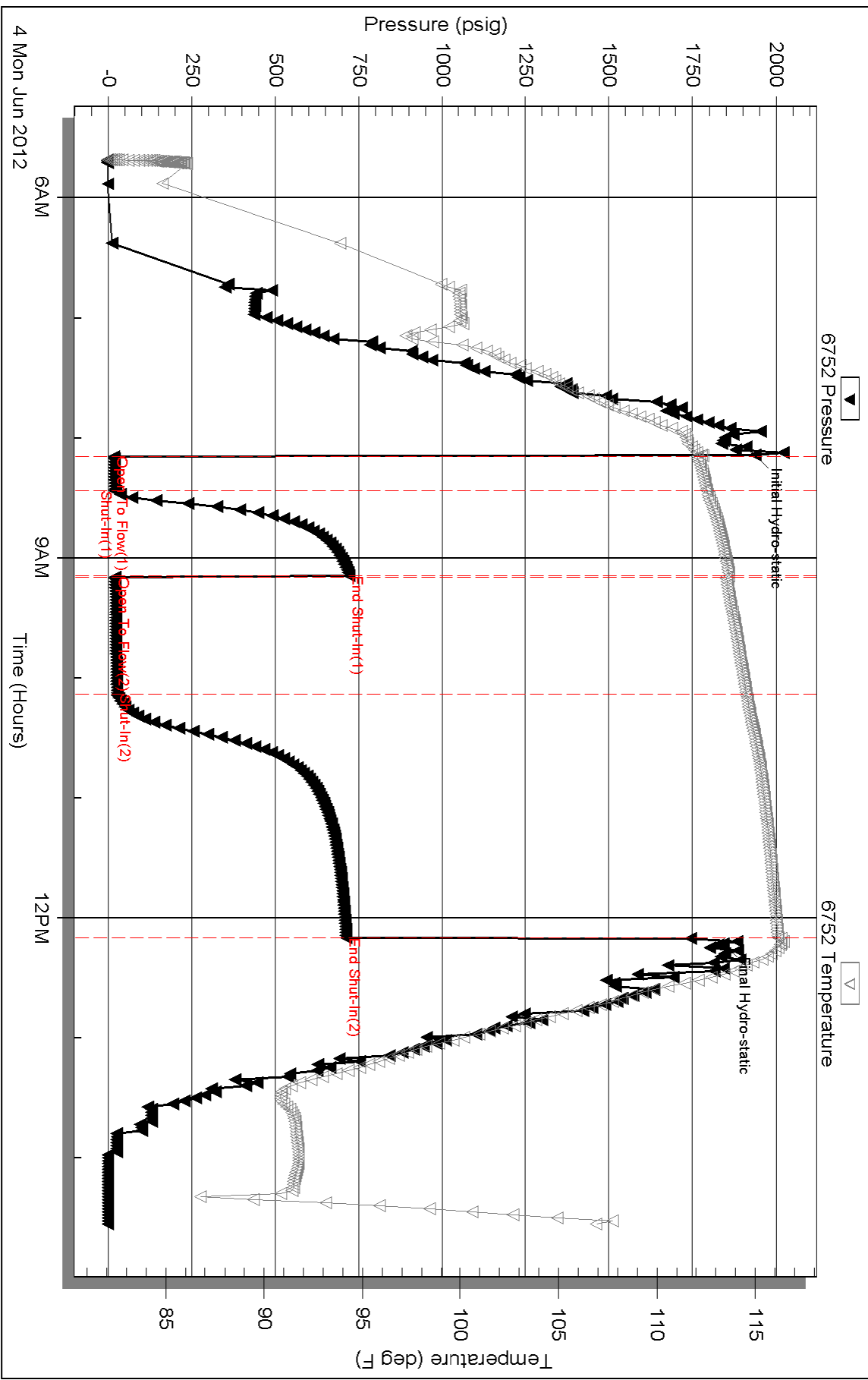
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

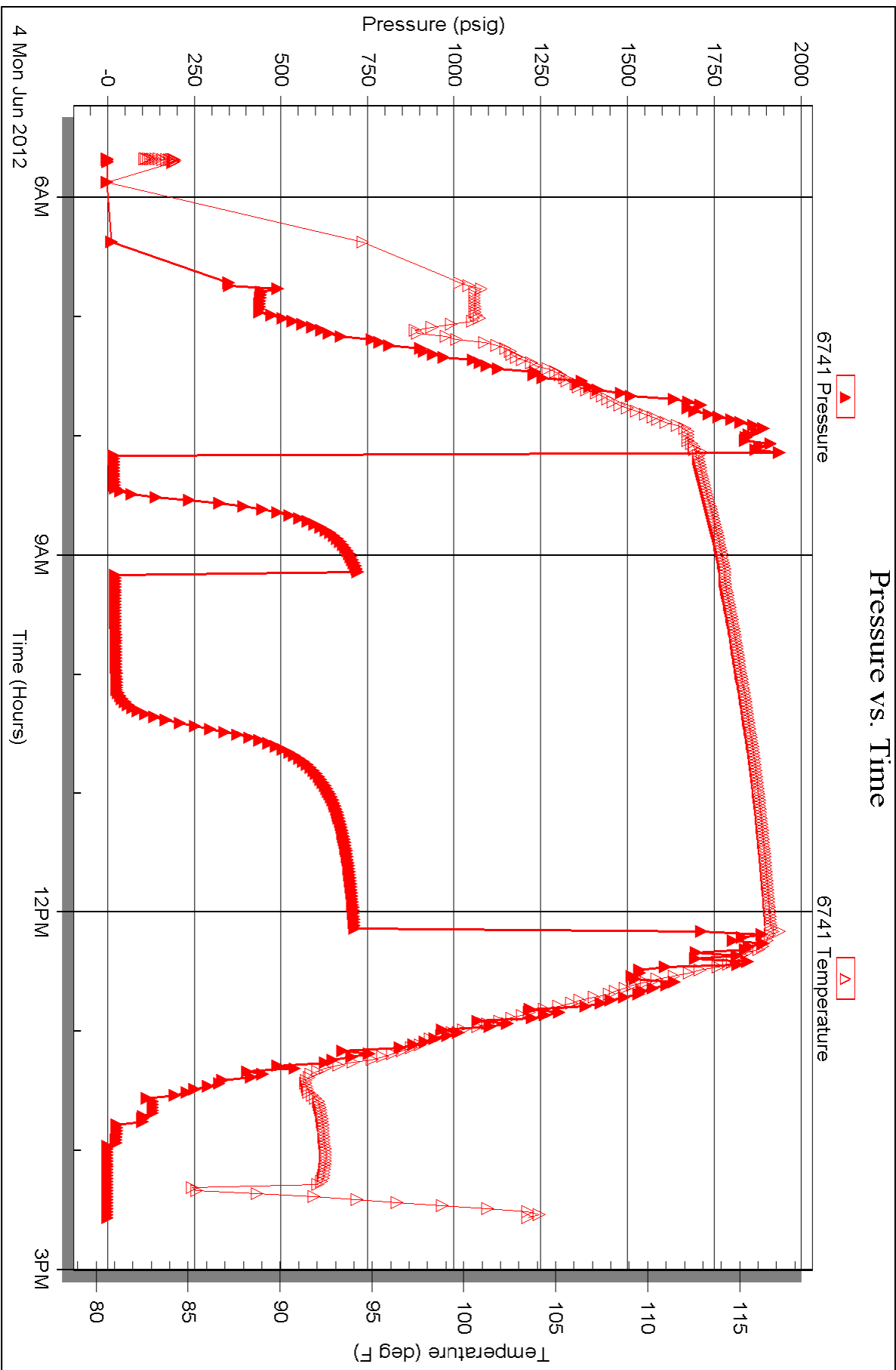


Serial #: 6741

Outside Herman L. Loeb LLC

Eva Richardson #4-19

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47137

4/10

Well Name & No. Eva Richardson 4-19 Test No. 1 Date 5-31-12
 Company Herman L. Loeb LLC Elevation 2302 KB 2291 GL
 Address PO Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jim Hall Rig sterling 2
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State kr

Interval Tested 3532-3588 Zone Tested Toronto-LLC "A"
 Anchor Length 56 Drill Pipe Run 3285 Mud Wt. 9.3
 Top Packer Depth 3527 Drill Collars Run 250 Vis 53
 Bottom Packer Depth 3532 Wt. Pipe Run — WL 6.4
 Total Depth 3588 Chlorides 2500 ppm System LCM
 Blow Description IFP - sur blow died 3 min
ISI - no blow back
FFP - no blow - flush - sur blow - died 30 sec
FST - no blow back

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

Rec Total 5 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1805 Test 1150 T-On Location 1606
 (B) First Initial Flow 36 Jars 250 T-Started 1739
 (C) First Final Flow 40 Safety Joint 75 T-Open 1950
 (D) Initial Shut-In 409 Circ Sub T-Pulled 2220
 (E) Second Initial Flow 46 Hourly Standby T-Out 2442
 (F) Second Final Flow 48 Mileage 73 RT 113.15 Comments —
 (G) Final Shut-In 383 Sampler —
 (H) Final Hydrostatic 1674 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1588.15
 Accessibility — MP/DST Disc't —
 Sub Total 1588.15

Approved By — Our Representative Brian Farbank

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. 47138

4/10

Well Name & No. Eva Richardson 4-19 Test No. 2 Date 6-1-12
 Company Herman Loeb Elevation 2302 KB 2291 GL
 Address _____
 Co. Rep / Geo. Jim Hall Rig Sterling 2
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State KJ

Interval Tested 3591-3651 Zone Tested LKC "C-E"
 Anchor Length 60 Drill Pipe Run 3317 Mud Wt. 9.3
 Top Packer Depth 3586 Drill Collars Run 250 Vis 54
 Bottom Packer Depth 3591 Wt. Pipe Run — WL 6.8
 Total Depth 3651 Chlorides 2600 ppm System LCM _____
 Blow Description IFF - weak blow throughout sur - 1"
ISI - no blow back
FFP - no blow 4 min - 1/4"
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>205</u>	<u>Feet of drl mud</u>				<u>100%</u>
<u>65</u>	<u>Feet of MW</u>			<u>85%</u>	<u>15%</u>
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 270 BHT 111 Gravity _____ API RW 152 @ 65 ° F Chlorides 54,000 ppm

(A) Initial Hydrostatic <u>1763</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1309</u>
(B) First Initial Flow <u>112</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1344</u>
(C) First Final Flow <u>137</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1558</u>
(D) Initial Shut-In <u>385</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1913</u>
(E) Second Initial Flow <u>141</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2059</u>
(F) Second Final Flow <u>164</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments <u>Tool slid 8'</u>
(G) Final Shut-In <u>382</u>	<input type="checkbox"/> Sampler _____	<u>to bottom</u>
(H) Final Hydrostatic <u>1687</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1588.15</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

Approved By _____ Our Representative Brian Fairbank

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47139

Well Name & No. Eva Richardson 4-19 Test No. 3 Date 6-2-12
 Company Herman Loeb Elevation 2302 KB 2291 GL
 Address _____
 Co. Rep / Geo. Jim Hall Rig Sterling 2
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State K

Interval Tested 3691-3759 Zone Tested LKC "H-J"
 Anchor Length 68 Drill Pipe Run 3446 Mud Wt. 9.2
 Top Packer Depth 3686 Drill Collars Run 250 Vis 55
 Bottom Packer Depth 3691 Wt. Pipe Run _____ WL 6.8
 Total Depth 3759 Chlorides 2600 ppm System LCM _____
 Blow Description FFP - sur blow throughout
ISI - no blow back
FFP - sur blow - died 30 sec - flush sur blow - died 17 min
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>dril mud</u>			<u>100</u>	
<u>5</u>	<u>USGOCM</u>	<u>5</u>	<u>5</u>	<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1866</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1053</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1132</u>
(C) First Final Flow <u>45</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1344</u>
(D) Initial Shut-In <u>750</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>7659 1614</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1802</u>
(F) Second Final Flow <u>63</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments _____
(G) Final Shut-In <u>709</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1811</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>10 - flush - 20 (45)</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>7260</u>	<input type="checkbox"/> Day Standby	Total <u>1588.15</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47140

Well Name & No. Eva Richardson 4-19 Test No. 4 Date 6-3-12
 Company Herman Loeb Elevation 2302 KB 229/ GL
 Address _____
 Co. Rep / Geo. Jim Hall Rig sterling 2
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State Ks

Interval Tested 3760-3808 Zone Tested LHC "K-L"
 Anchor Length 48 Drill Pipe Run 3509 Mud Wt. 9.3
 Top Packer Depth 3755 Drill Collars Run 250 Vis SI
 Bottom Packer Depth 3760 Wt. Pipe Run _____ WL 7.8
 Total Depth 3808 Chlorides 2600 ppm System LCM _____

Blow Description IFP - sur blow - died 6 min
ISI - no blow back
FFP - no blow - flush - sur blow - died 1 min
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>USDCM</u>		<u>5</u>		<u>95</u>
<u>240</u>	<u>dril mud</u>				<u>60</u>
____	____				
____	____				
____	____				

Rec Total 250 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1912</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0527</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0625</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0837</u>
(D) Initial Shut-In <u>758</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1107</u>
(E) Second Initial Flow <u>153</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1254</u>
(F) Second Final Flow <u>157</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments <u>lost 30' mud</u>
(G) Final Shut-In <u>831</u>	<input type="checkbox"/> Sampler _____	<u>when flushed tool</u>
(H) Final Hydrostatic <u>1848</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>5-Flush-25 (30)</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1588.15</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47141

4/10

Well Name & No. Eva Richardson 4-19 Test No. 5 Date 6-4-12
 Company Herman Loeb Elevation 2302 KB 2291 GL
 Address _____
 Co. Rep / Geo. Jim Hall Rig Sterling 2
 Location: Sec. 19 Twp. 11 Rge. 22 Co. Trego State K

Interval Tested 3902-3941 Zone Tested Marmston
 Anchor Length 39 Drill Pipe Run 3636 Mud Wt. 9.3
 Top Packer Depth 3897 Drill Collars Run 250 Vis 52
 Bottom Packer Depth 3902 Wt. Pipe Run — WL 7.8
 Total Depth 3941 Chlorides 2600 ppm System LCM
 Blow Description IFP - sur blow - died 4 min
ISI - no blow back
FFP - no blow
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MCO</u>	<u>70</u>		<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1937</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0426</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0540</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0808</u>
(D) Initial Shut-In <u>721</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1208</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1433</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage 113.15	Comments _____
(G) Final Shut-In <u>712</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1842</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 <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1588.15</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1588.15</u>	

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