

1214206

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	HEFT 4-5
Doc ID	1214206

Tops

Name	Top	Datum
Chase	2454	-222
Heebner Shale	4058	-1826
Lansing A	4224	-1992
KC I	4434	-2202
BKC	4616	-2384
Cherokee LS	4781	-2549
Reworked Miss	4798	-2566
Miss. Chert	4810	-2478
Kinderhook Shale	4864	-2632

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Heft #4-5
Location: 660' FNL & 1925' FEL, Sec. 5-T28S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21790-00-00 Region: Einsel
Spud Date: 3/29/2014 Drilling Completed: 4/06/2014
Surface Coordinates: 660' FNL & 1925' FEL, Sec. 5-T28S-R18W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2219' K.B. Elevation (ft): 2232'
Logged Interval (ft): 3900' To: 4875' Total Depth (ft): 4875'
Formation: Kinderhook Shale at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3295'; Chemical Gel 3295' to 4875'

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

OPERATOR

Company: Herman L. Loeb, LLC.
Address: P.O. Box 838
Lawrenceville, IL. 62439-0838

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(Lansing 'A') 4227' - 4243'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/15 Sec., FFP Strong Blow BOB/1 Min., no Gas to surface, no Blowback on SI's; REC: 1178' Gas in Pipe, 60' GCMW(3%G, 72%W, 25%M) CI 55,000, Mud 6500; IFP 9-22#, ISIP 1221#, FFP 22-48#, FSIP 1202#, IHP 2122#, FHP 2068#, BHT 117 Deg. F.

DST #2(Kansas City 'I') 4425' - 4442'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/5 Min., FFP Strong Blow BOB/12 Min., no GTS, 1" Blowback on FSI; REC: 496' Gas in Pipe, 120' GOCWM(Avg. 20%G, 20%O, 30%W, 30%M), 60' MSW(85%W, 15%M) CI 51,000, Mud 6000; IFP 22-40#, ISIP 1185#, FFP 47-84#, FSIP 1197#, IHP 2200#, FHP 2174#, BHT 117 Deg. F.

DST #3(Miss. Chert) 4773' - 4833'(Corrected Depths to Log) Test Times 15"-45"-40"-120" IFP Strong Blow BOB/2 Min., FFP Strong Blow BOB/Immed., no Gas to Surface, no Blowback on SI's; REC: 2360' GIP, 180' GOCM(Avg. 17%G, 6%O, 77%M), no Water; IFP 26-37#, ISIP 1032#, FFP 44-66#, FSIP 1047#, IHP 2297#, FHP 2278#, BHT 121 Deg. F.

DST #4(Miss. Chert) 4833' - 4848'(Corrected Depths to Log) Test Times 15"-45"-60"-120" IFP Strong Blow BOB/1.5 Min., 0.5" Blowback on ISI, FFP Strong Blow BOB/Immed. Gas to Surface in 12 Min. Gauged 12.9 MCFGPD(20# on a 0.125" Choke) in 60" of FFP; REC: 32' MO(85%O, 15%M, AP! 33.6 Deg.), 330' GHOCWM(Avg. 25%G, 40%O, 5%W, 30%M), 64' OCWM(20%O, 15%W, 65%M), CI 21,000, Mud 7000; IFP 30-58#. ISIP 1058#, FFP 26-129#, FSIP 1054#, IHP 2331#, FHP 2288#, BHT 125 Deg. F.

Comments

3/29/14 MIRU Sterling Drilling Rig #5 Spud at 4:45 PM; 3/30/14 TD. 279' - WOC(Conductor Casing); 3/31/14 TD. 626' - Drilling Cement; 4/1/14 Drilling at 2430'; 4/2/14 Drilling at 4000'; 4/3/14 Drilling at 4300'; 4/4/14 Drilling at 4455'; 4/5/14 TD. 4838' - CFS for DST #3; 4/6/14 TD. 4853' - DST #4; 4/7/14 RTD. 4875', LTD. 4872' - TIH to LDDP for setting Production Casing.

Set new 13 3/8"(54.5#) Conductor Casing at 275' with 280 sacks of cement(Basic Energy Services). Cement did Circulate - no Losses. PD. 3:15 AM. on 3/30/14.

Set new 8 5/8"(23#) Surface Casing at 622' with 350 sacks of cement(Basic Energy Services). Cement did Circulate - no Losses. PD. at 9:00 PM. on 3/30/14.

Set new 5 1/2"(15.5#) Production Casing at 4866' with 200 sacks cement(Basic Energy Services). PD. on 4/7/14.

Surveys: 0.75 Deg. at 279'(Conductor Casing); 1.0 Deg. at 626'(Surface Casing); 0.75 Deg. at 4247'(DST #1); 1.25 Deg. at 4447'(DST #2); 0.75 Deg. at 4838'(DST #3); 2.0 Deg. at 4875' RTD.

Pipe Strap at 4247'(DST #1): Strap 0.76' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data and indications of commercial amount of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Mississippi Chert.

NOTE: Prior to abandonment of the Heft #4-5, the following zones should be perforated, acidized and tested: Cherokee Limestone from 4782' - 4786', Marmaton(Altamont) from 4681' - 4685', and Kansas City 'H' zone from 4416' - 4422'. Significant shows/gas kicks were observed in these zones, although no DST's were taken over them.

LOG TOPS: Chase 2454(-222), Stotler Lmst. 3418(-1186), Howard 3627(-1395), Heebner Shale 4058(-1826), Toronto 4073(-1841), Brown Lmst. 4214(-1982), Lansing 'A' 4224(-1992), Kansas City 'I' 4434(-2202), Stark Shale 4523(-2291), Hertha 4582(-2350), BKC 4616(-2384), Marmaton 4667(-2435), Altamont 4679(-2447), Cherokee Shale 4748(-2516), Cherokee Lime 4781(-2549), Reworked Miss. 4798(-2566), Clean Miss. Chert 4810(-2478), Kinderhook Shale 4864(-2632).

NOTE: This log was shifted upward by 4' to 5' for correlation purposes with the Halliburton Logs.

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
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackst

OTHER SYMBOLS

POROSITY

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

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

INTERVAL

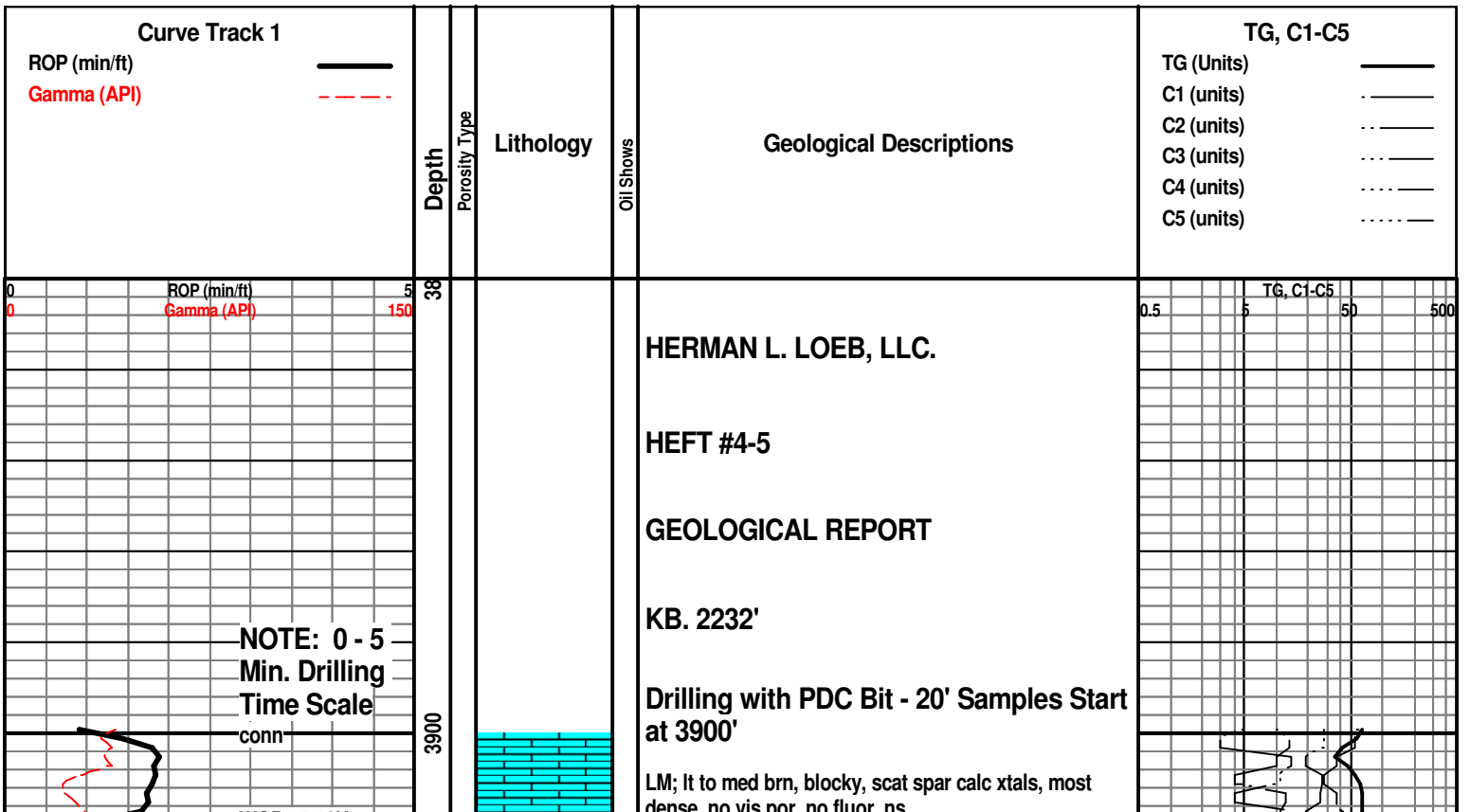
- Core
- Dst

EVENT

- Rft
- Sidewall

OIL SHOW

- Even



WOB 15-16K
PP 1055#
SPM 67
RPM 105

conn

Vis 56
Wt. 9.1
LCM 0#

3950

conn

WOB 15-16
PP 1000#
SPM 64
RPM 85

A.V.= 172.00
at 64 SPM

conn

ROP (min) Vis 53
Gamma (A) Wt. 9.3
LCM 0#

4000

conn

WOB 16K
PP 1000#
SPM 63
RPM 83

A.V.= 172.50
at 63 SPM

conn

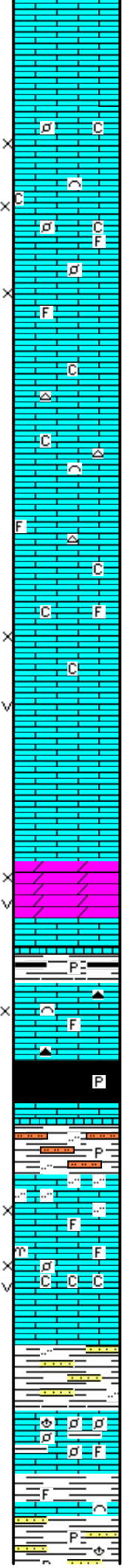
MudCo. Mud
Check at 4058'
Vis 63 Wt. 9.4
WL 8.8 CI 6500
PH 10.0 LCM 0#
conn

4050

4100

WOB 16K
PP 935#
SPM 60
RPM 88

conn



LM; tan to off wh, buff, f to med xln, fair interxln por, foss ip, minor chalky mtx, dull yel to no fluor, no stn or odor, ns.

LM; off wh, tan, buff, f to med xln w/scat foss mat, fair interpart/interxln por, dull yel fluor, occ chalky - soft, no stn or odor, ns.

LM; lt gy, off wh, tan, foss w/scat fusulinids and hash, fair interpart por, scat lt gy cht, no fluor, ns.

LM; tan to lt brn, off wh, med to cse xln, some gran w/gd interxln w/occ vug por, scat spar calc xtals, dull yel fluor, no stn or odor, occ chalky mtx, ns.

DOL; tan to lt brn, sucrosic, soft, well dev. interxln w/scat vug por, dull yel fluor, no stn or odor, no sample shows

SH; dk gy, blk, platy, occ pyr

LM; lt to med brn, blocky, interbdd foss lms w/trc poor interpart por, scat brn cht, no fluor, no stn or odor, ns.

HEEBNER SHALE 4058(-1826)

SH; blk, carb, trc gas, occ pyr

LM; med brn, hd, micritic

SH; grn, gy grn, silty w/interbdd sltst, pyr ip.

TORONTO 4074(-1842)

LM; med gy brn, gritty - silty ip, tite

LM; wh, off wh, foss w/scat vug and interpart por, med yel min fluor, no stn or odor, partly chalky mtx, ns.

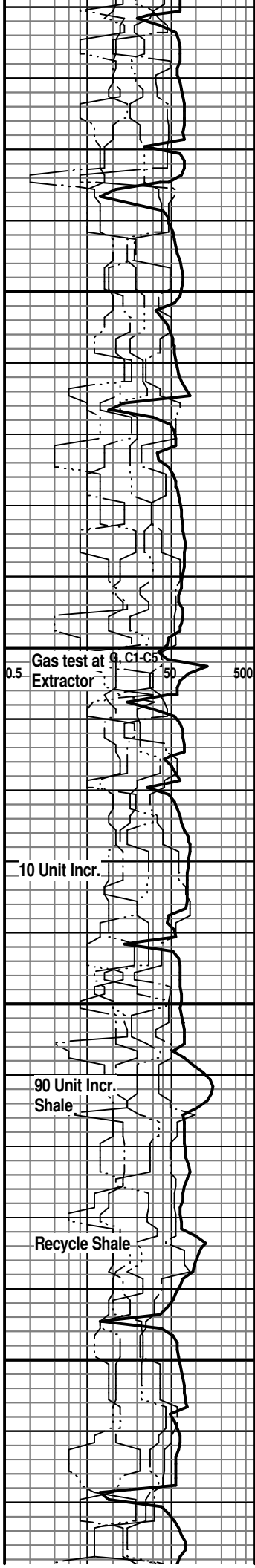
40 Stand Wiper Trip at 4092'

DOUGLAS SHALE 4096(-1864)

SH; lt gy, soft, sandy w/interbdd vf gr qtz mica ss

LM; med gy brn, abnt foss mat, pellets, argil ip, no vis por, lt yel fluor, ns.

SH; med gy, platy, foss ip, interbdd hd pyr ss strngs

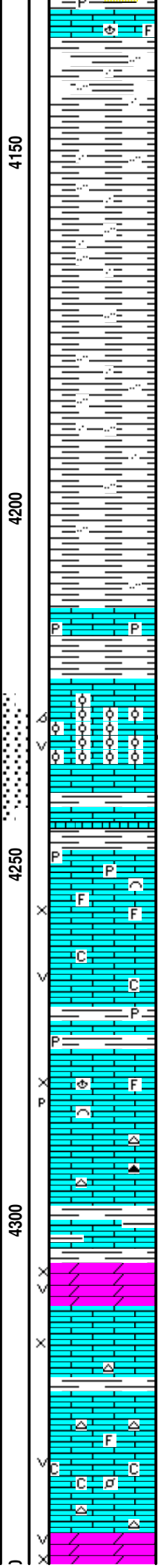
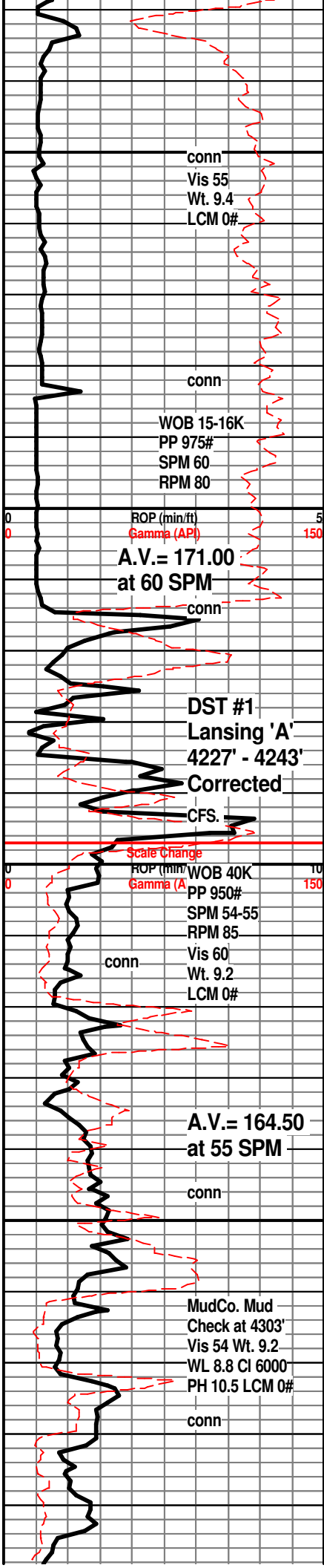


Gas test at G. C1-C5
Extractor

10 Unit Incr.

90 Unit Incr.
Shale

Recycle Shale



LM; lt to med gy brn, foss ip, dense

SH; lt gy, some red-brn varic sh, silty to sandy ip, trc.

SH; lt to med gy, platy, smooth, occ silty

SH; lt to med gy, platy

BROWN LMST. 4214(-1982)
LM; med brn, hd, pyr ip, tite

LANSING 'A' 4224(-1992)
LM; lt to med brn, oolitic, med to lrg molds, v. well dev. oomoldic por, brittle, med to brite yel fluor, sev. gas bubbles, v. faint gas odor, v. sl. spotted It oil stn, weak cut, GAS SHOW

DST #1: Lansing 'A' 4227' - 4243'
SWITCHED TO BUTTON BIT AFTER DST #1

LANSING 'B' 4248(-2016)
LM; med brn, rare off wh, foss ip, most well cem, some hd pyr lmst at top, dull to yel min fluor, trc poor interpart por, ns.

LM; lt gy, lt gy brn, fxln w/fair vug por, minor soft chalky mtx, dull to lt yel min fluor, no stn or odor, ns.

SH; med gy, gy grn, pyr ip.

LM; tan to lt brn, buff, fxln w/gd interxln and p-p por, scat foss mat, dull yel min fluor, no stn or odor, ns.

LM; lt to med brn, dense, blocky, scat gy to brn cht, no vis por, ns.

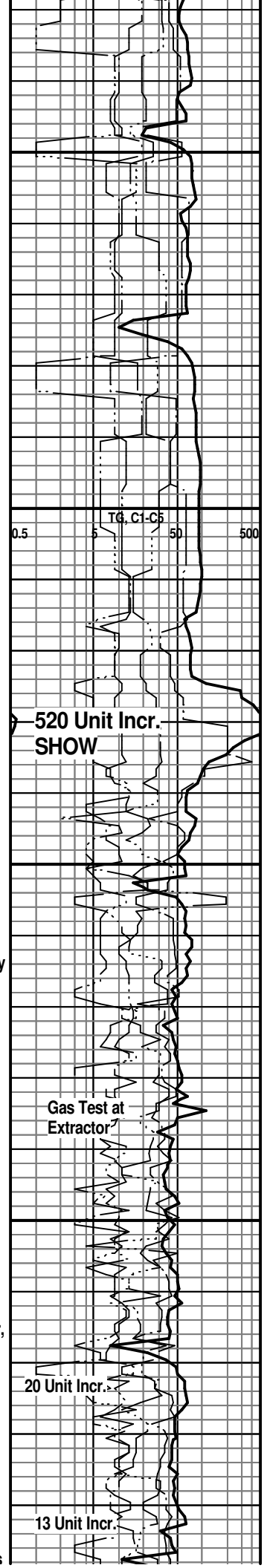
LM; med brn, gy brn, argil ip. tite

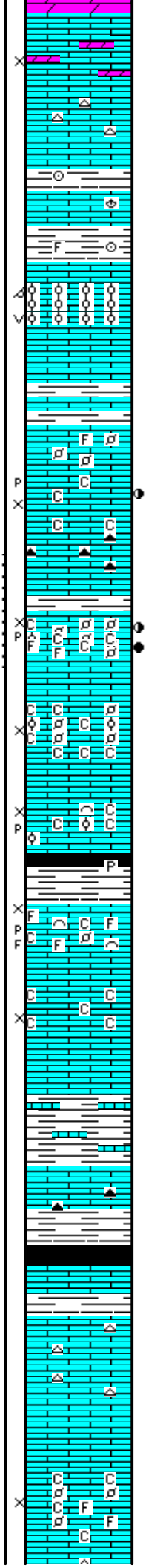
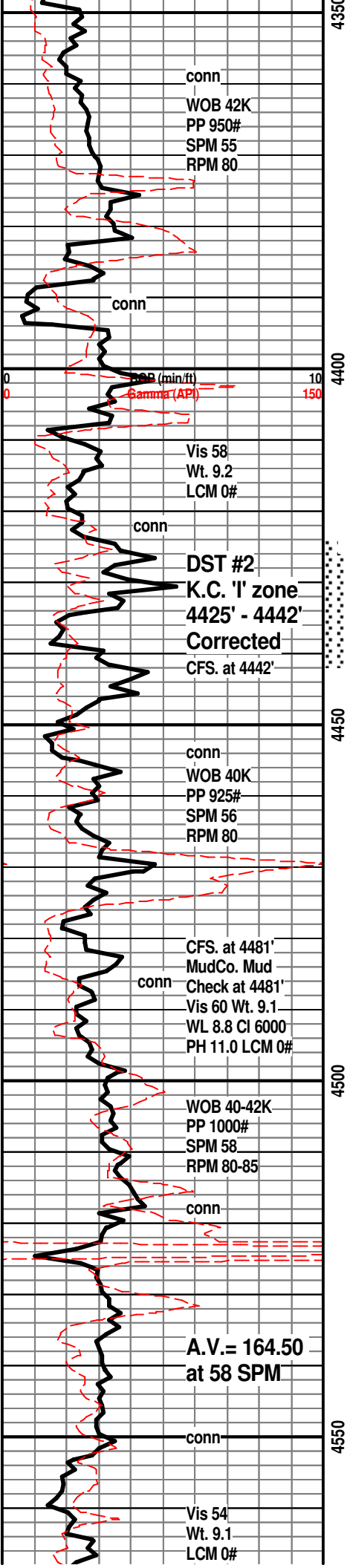
DOL; lt brn, sucrosic, fair interxln and vug por, lt yel min fluor, no vis stn, ns.

LM; tan to cream, buff, med xln to gran, fair interxln por, scat spar calc xtals, lt yel min fluor no stn or odor, ns.

LM; off wh, buff, fxln w/fair vug por, mod soft, minor chalky mtx, lt yel fluor, no vis stn, no sample shows

DOL; lt brn, tan, sucrosic, fair interxln w/occ vug por, scat cse spar calc xtals. dull vel fluor. no sample shows





LM; tan to cream, buff, fxl to sucrosic, partly dolomitic, dull yel fluor, fair interxn por, no stn or odor, bcm dense w/scat gy cht, ns.

LM; med brn, blocky, foss ip, tite

SH; med to dk gy, platy, foss ip.

LANSING/K.C. 'H' 4385(-2153)
LM; lt brn, oolitic, small to med size molds, v. gd oomoldic w/vug por, brittle, v. dull yel fluor, no stn or odor, no sample shows, no vis gas bubbles

SH; med gy, gy grn, platy

LM; tan to cream, buff, fxl w/scat chalk and chalky mtx, fair interxn por, dull to occ lt yel fluor, faint odor, trc v. spotted lt brn stn, scat dk gy, dk brn to smoky cht

KANSAS CITY 'I' 4434(-2202)
LM; lt brn, foss - finely pelletal, fair interpart w/some gd p-p por, spotted to occ even lt brn oil stn, trc. gassy FO, fair odor, fair to gd cut, some chalky soft mtx w/brite yel fluor

DST #2: KC 'I' zone 4425' - 4442'
LM; off wh, buff, med xln w/scat foss pellets and ooids, soft ip w/fair to gd interxn por, very chalky, no fluor, no vis stn, no odor, barren, ns.

LM; off wh, buff, foss w/scat fair interpart and p-p por, minor soft chalky mtx, no fluor, no stn or odor, barren, ns.

SH; blk, carb ip, pyr

KANSAS CITY 'J' 4475(-2243)
LM; off wh, buff, foss w/scat cse foss frags, fair interpart and p-p por, sev. gas bubbles, v. dull yel fluor, no vis oil stn, no odor, no cut, minor soft chalky mtx

LM; off wh, cream, buff, med xln w/fair interxn por, chalky ip, soft, no vis stn, no odor, ns.

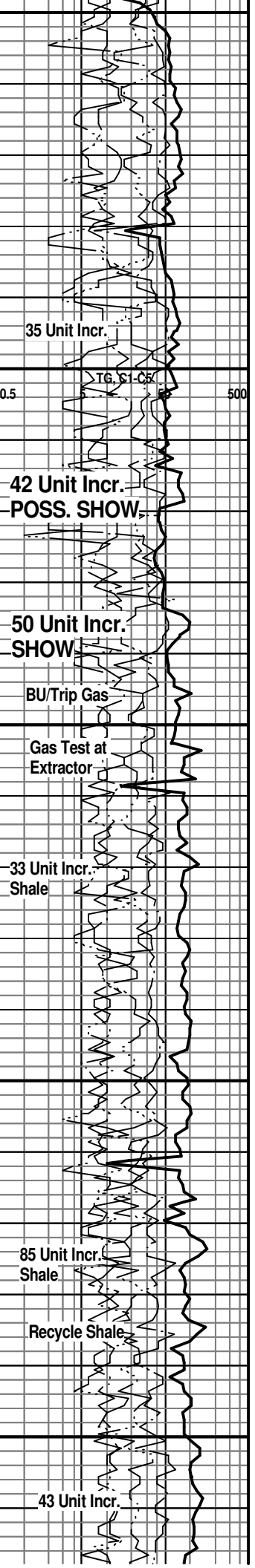
SH; med gy, gy brn, lmy w/interbdd argil lmst.

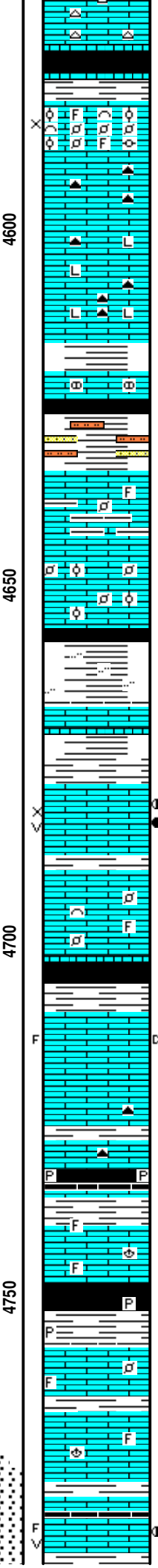
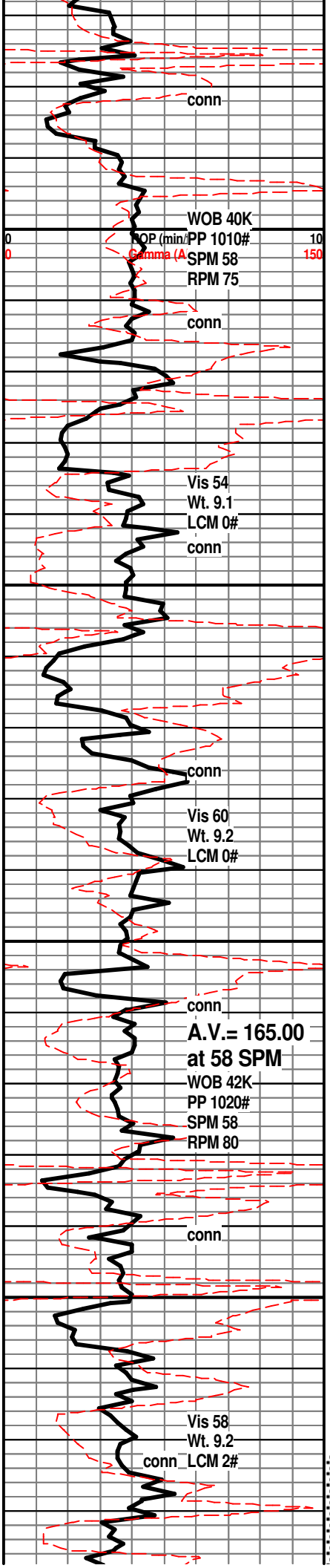
LM; dk gy, hd, micritic, scat gy-brn cht, tite

STARK SHALE 4523(-2291)
SH; blk, carb, trc gas, blocky

SWOPE 4533(-2301)
LM; lt gy to med brn, blocky - mictitic, scat gy cht, no vis por, no fluor, ns.

LM; off wh, buff, tan, foss w/scat pellets and hash, poor to fair interpart por, chalky mtx ip, spotty lt yel fluor, no stn or odor, no sample shows





LM; lt gy, lt brn, hd, micritic, occ cherty

SH; blk, carb ip, trc gas, blocky

HERTHA 4582(-2350)

LM; tan, lt brn, buff, highly foss, partly oolitic, gd interpart por, med yel min fluor, trc cse xln chalky lmst also, no vis stn, no odor, ns.

LM; med to dk brn, hd, cherty w/brn foss cht, dense, no vis por, some litho lmst, tite

BASE KANSAS CITY 4616(-2384)

SH; brn, some varic, gy, platy, foss ip.

LM; med gy, gy brn, hd, some nodular, tite

SH; dk gy, blk, varic ip, soft, interbdd vf gr qtz ss and sltst.

PLEASANTON 4634(-2402)

LM; lt brn, tan, occ pale grn tint, argil ip w/interbdd grn shale, scat well cem foss, lt yel min fluor, no stn, ns.

LM; off wh, tan, foss w/abnt rnd pellets/ooids, well cem, scat spar calc xtals, scat lt yel min fluor, no vis stn, no odor

SH; med to dk gy grn, blk, firm, occ silty

MARMATON 4667(-2435)

LM; lt gy brn, pale grn tint, some dk brn micrite, hd, blocky, argil ip, tite

SH; grn, gy, brn, some rust red, platy

LM; tan to buff, med to cse xln w/spotted to even dk brn live oil stn, fair interxln w/scat vug por, SSFO, faint odor, med yel fluor, fair cut, trc gas bubbles

LM; tan to lt brn, most dense - micritic, blocky, rare well cem foss mat, no vis por, no fluor, ns.

SH; blk, dk gy, platy

PAWNEE 4710(-2478)

LM; tan to lt brn, micritic, blocky, trc frags w/rare blk tar/gils, no live shows, most tite, dull yel fluor

LM; lt to med brn, blocky, rare brn cht, tite

SH; blk, carb, blocky, pyr ip.

LM; tan to lt brn, foss ip, hd, well cem, scat lt yel fluor, no stn or odor, ns.

CHEROKEE SHALE 4748(-2516)

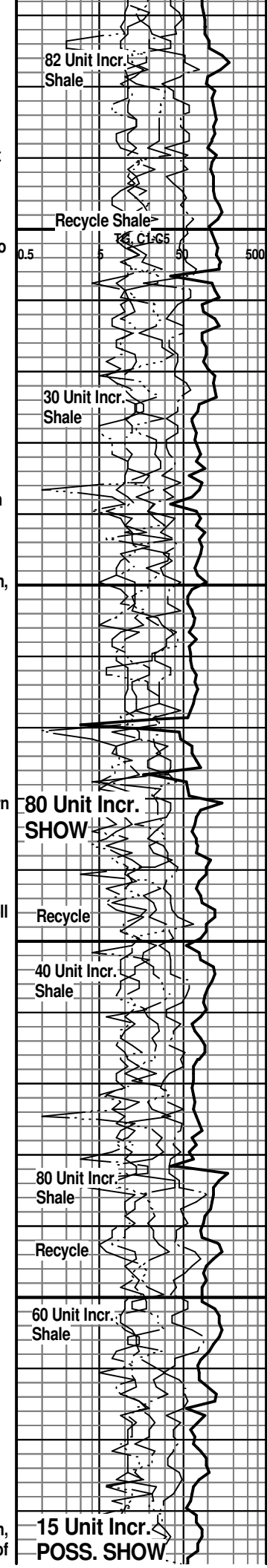
SH; blk, dk gy, carb ip, platy, rare pyr

LM; tan to buff, lt brn, most micritic, blocky, rare foss mat, no vis por, no fluor, ns.

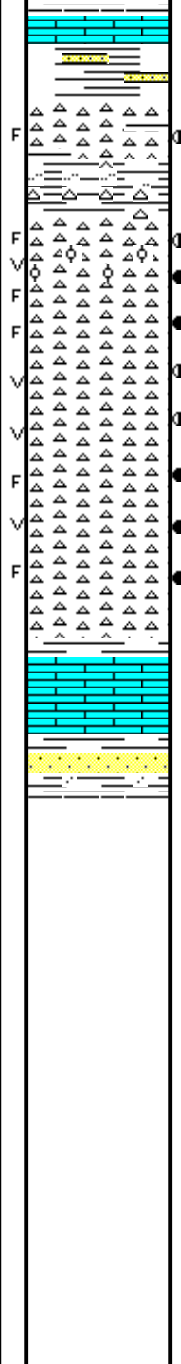
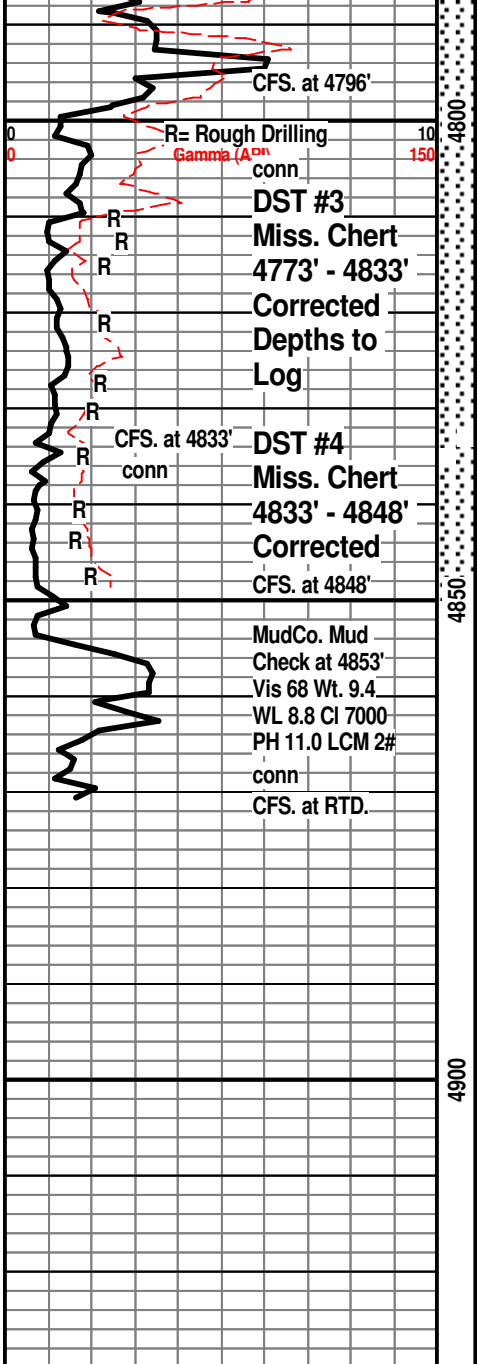
LM; tan to lt brn, buff, fxln, rarely foss, no vis por, no fluor, ns.

SH; dk gy, blk, platy, occ pyr

LM; tan, cream, fxln, occ frags w/vug por, dk brn oil stn, spar calc xtals, med yel fluor, no odor, fair cut, low % of



show in samples



REWORKED MISS. 4798(-2566)
 CONGL & CHT; varic, org, wh, yel, brick red, fresh,
 nodular cht, lt yel fluor, occ frags, faint gas odor,
 interbdd grn silty shale

CLEAN MISS. CHERT 4810(-2578)
 CHT; wh, brn(oil stained), tripolite and fresh, some
 gritty text, lt/med brn spotted to occ even oil stn, fair
 odor, SFO, interbdd org oolitic cht w/vug por, med/brite
 yel fluor

CHT; wh, off wh, most fresh, frags w/occ lrg vug por,
 uniform brite yel fluor, fair to gd odor, SFO, few gas
 bubbles, spotted oil stn

DST #3: Miss. Chert 4773' - 4833'
 CHT; wh, off wh, pred fresh, frags w/live oil stn, occ vug
 por, scat weathered edges, shows of gassy lt brn oil, gd
 odor, much brite yel fluor

CHT; wh, off wh, fresh, rare trip, fair/gd odor, SFO,
 much brite yel fluor, frags & vug por

DST #4: Miss. Chert 4833' - 4848'
 Corrected Depths to Log

LM; med brn, rare red brn, micritic, tite

KINDERHOOK SHALE 4864(-2632)

SH; gy grn, grn, platy, interbdd grn vf to f grn to wh
 qtz ss, some fri, some tite, ns.

RTD. 4875' at 3:15 PM. on 4/6/14

LTD. 4872'

Halliburton ACRT(DIL), NEU/DEN,
 Microlog, MIRL

**NOTE: This log was shifted upward by
 4' to 5' for correlation purposes with the
 Halliburton Logs.**





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

5-28s-18w Kiowa, Co.
Heft #4-5
Job Ticket: 51950 **DST#: 1**
Test Start: 2014.04.02 @ 18:26:23

GENERAL INFORMATION:

Formation: **Lansing "A"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 20:48:23
Time Test Ended: 02:35:08
Interval: **4231.00 ft (KB) To 4247.00 ft (KB) (TVD)**
Total Depth: 4247.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 53
Reference Elevations: 2232.00 ft (KB)
2219.00 ft (CF)
KB to GR/CF: 13.00 ft

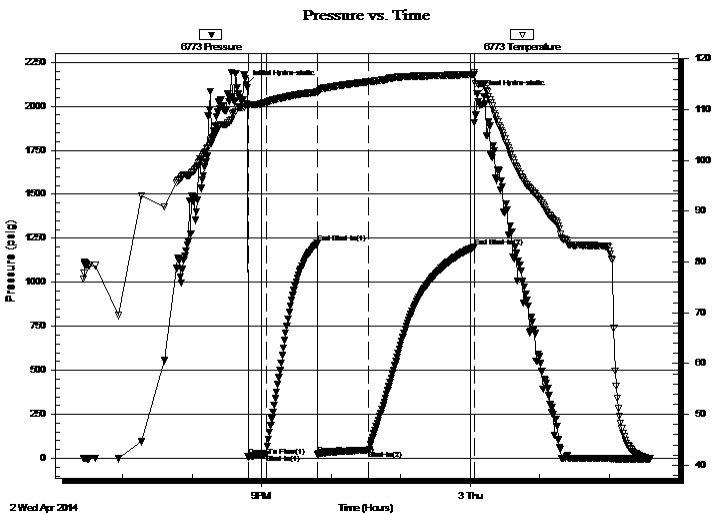
Serial #: 6773

Outside

Press @ Run Depth: 47.70 psig @ 4232.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.04.02 End Date: 2014.04.03 Last Calib.: 2014.04.03
Start Time: 18:26:28 End Time: 02:35:07 Time On Btm: 2014.04.02 @ 20:46:53
Time Off Btm: 2014.04.03 @ 00:05:53

TEST COMMENT: IF: Strong blow . B.O.B. in 15 secs.
IS: No blow .
FF: Strong blow . B.O.B. in 1 min.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.95	111.05	Initial Hydro-static
2	9.17	110.85	Open To Flow (1)
17	21.62	111.38	Shut-In(1)
61	1221.43	113.40	End Shut-In(1)
62	21.84	113.30	Open To Flow (2)
106	47.70	115.47	Shut-In(2)
197	1202.40	116.87	End Shut-In(2)
199	2068.46	115.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWCM 3%g 25%m 72%w	0.30
0.00	1,178' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC.

5-28s-18w Kiowa, Co.

P.O. Box 838
Lawrenceville, IL. 62439

Heft #4-5

Job Ticket: 51950

DST#: 1

ATTN: Jon Christensen

Test Start: 2014.04.02 @ 18:26:23

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:

55000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GWCM 3%g 25%m 72%w	0.295
0.00	1,178' G.I.P.	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

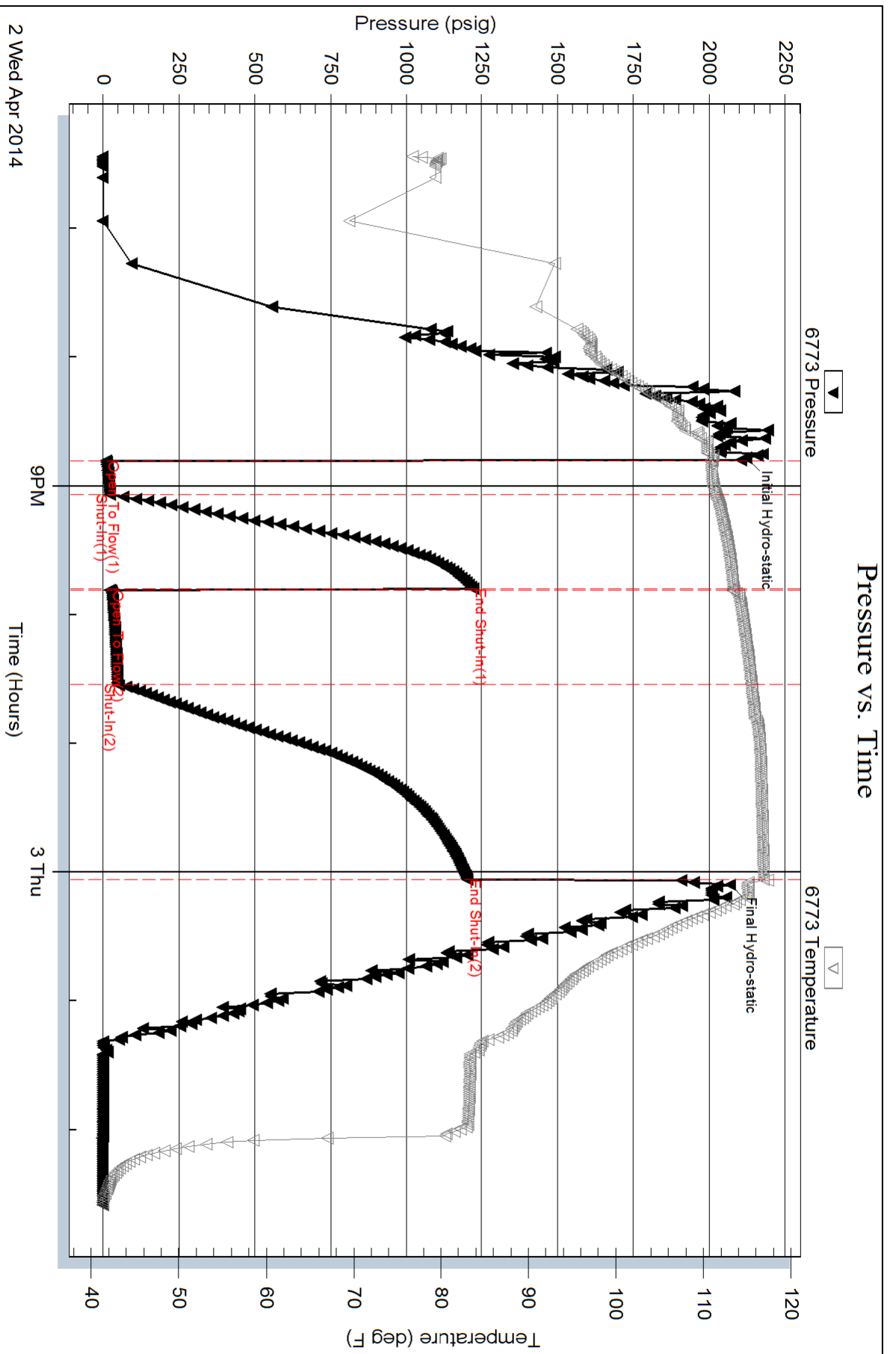
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Rw .22 @ 40 degrees.





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

5-28s-18w Kiowa, Co.
Heft #4-5
Job Ticket: 52001 **DST#: 2**
Test Start: 2014.04.03 @ 19:32:59

GENERAL INFORMATION:

Formation: **Kansas City "I"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 22:09:44
Time Test Ended: 03:27:29
Interval: **4430.00 ft (KB) To 4447.00 ft (KB) (TVD)**
Total Depth: 4447.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 53
Reference Elevations: 2232.00 ft (KB)
2219.00 ft (CF)
KB to GR/CF: 13.00 ft

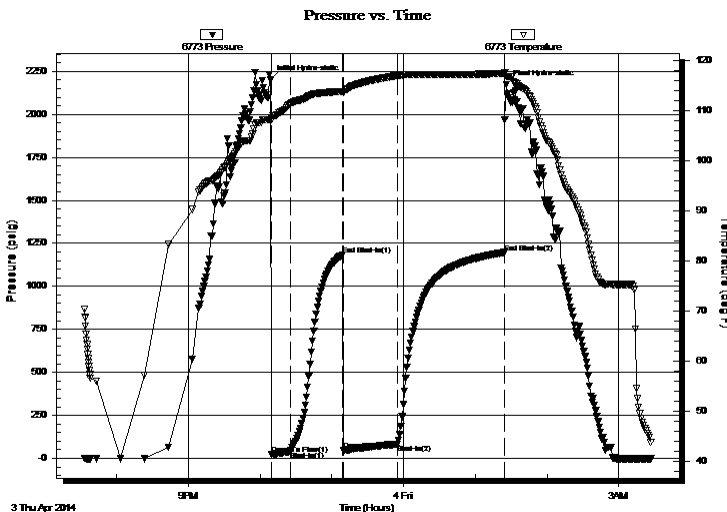
Serial #: 6773

Outside

Press @ Run Depth: 84.45 psig @ 4431.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.04.03 End Date: 2014.04.04 Last Calib.: 2014.04.04
Start Time: 19:33:04 End Time: 03:27:28 Time On Btm: 2014.04.03 @ 22:08:44
Time Off Btm: 2014.04.04 @ 01:25:44

TEST COMMENT: IF: Strong blow . B.O.B., in 5 1/2 mins.
IS: Weak blow . Surf., to 1/2".
FF: Strong blow . B.O.B., in 12 mins,
FS: Weak blow . Surf., to 1".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.94	108.18	Initial Hydro-static
1	22.25	108.23	Open To Flow (1)
17	40.35	111.19	Shut-In(1)
61	1185.05	113.76	End Shut-In(1)
61	46.52	113.58	Open To Flow (2)
107	84.45	116.93	Shut-In(2)
196	1197.28	117.32	End Shut-In(2)
197	2174.21	116.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 15% <i>m</i> 85% <i>w</i> trc oil	0.30
60.00	GOMW 20% <i>g</i> 22% <i>m</i> 25% <i>o</i> 33% <i>w</i>	0.30
60.00	GOMW 15% <i>g</i> 15% <i>o</i> 25% <i>w</i> 45% <i>m</i>	0.30
0.00	496' G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

5-28s-18w Kiowa, Co.
Heft #4-5
Job Ticket: 52001 **DST#: 2**
Test Start: 2014.04.03 @ 19:32:59

Mud and Cushion Information

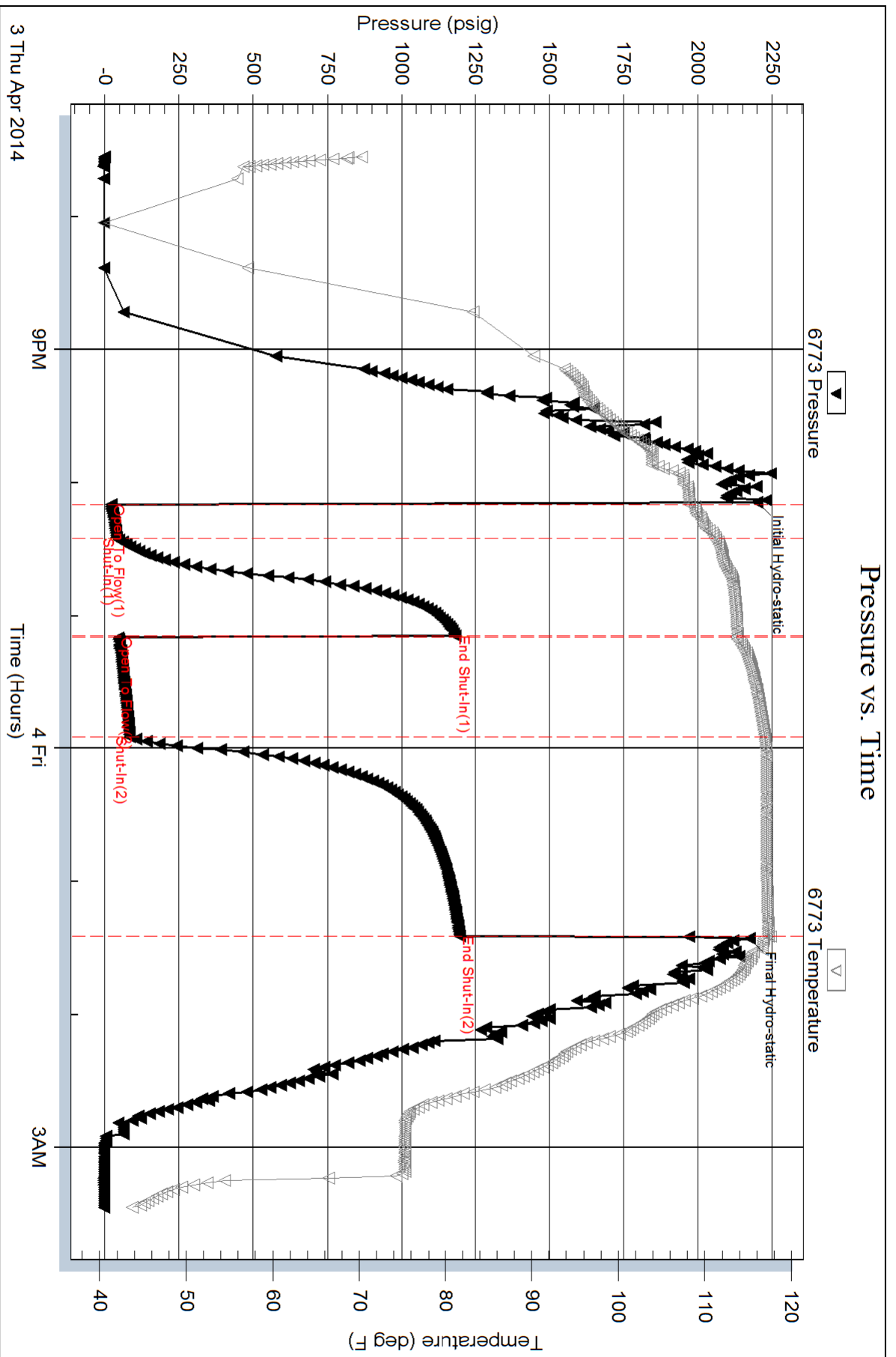
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	51000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCW 15%m 85%w trc oil	0.295
60.00	GOMW 20%g 22%m 25%o 33%w	0.295
60.00	GOMW 15%g 15%o 25%w 45%m	0.295
0.00	496' G.I.P.	0.000

Total Length: 180.00 ft Total Volume: 0.885 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments: Not enough oil for gravity check. Rw is .33 @ 32 degrees.





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

5-28s-18w Kiowa, Co.
Heft #4-5
Job Ticket: 52002 **DST#: 3**
Test Start: 2014.04.05 @ 11:29:41

GENERAL INFORMATION:

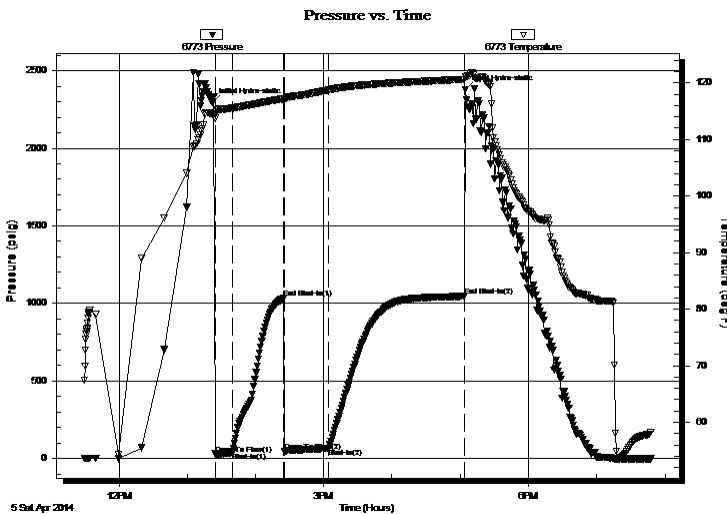
Formation: **Miss. Chert.**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 13:24:41
Time Test Ended: 19:47:41
Interval: **4778.00 ft (KB) To 4838.00 ft (KB) (TVD)**
Total Depth: 4838.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 53
Reference Elevations: 2232.00 ft (KB)
2219.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6773 Outside

Press @ Run Depth: 66.17 psig @ 4779.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.04.05 End Date: 2014.04.05 Last Calib.: 2014.04.05
Start Time: 11:29:46 End Time: 19:47:40 Time On Btm: 2014.04.05 @ 13:22:26
Time Off Btm: 2014.04.05 @ 17:04:26

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins.
IS: Weak blow . B.O.B. in 21 mins., bleed off in 4 mins.
FF: Strong blow . B.O.B. in 5 secs.
FS: No blow . Bleed off for 20 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.04	114.48	Initial Hydro-static
3	26.00	113.77	Open To Flow (1)
18	37.30	115.55	Shut-In(1)
63	1032.00	117.18	End Shut-In(1)
63	44.12	116.95	Open To Flow (2)
102	66.17	118.72	Shut-In(2)
222	1046.70	120.65	End Shut-In(2)
222	2377.70	121.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 95% m 5% o	0.30
60.00	GOCM 10% g 10% o 80% m	0.30
60.00	GOCM 2% o 25% g 75% m	0.30

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

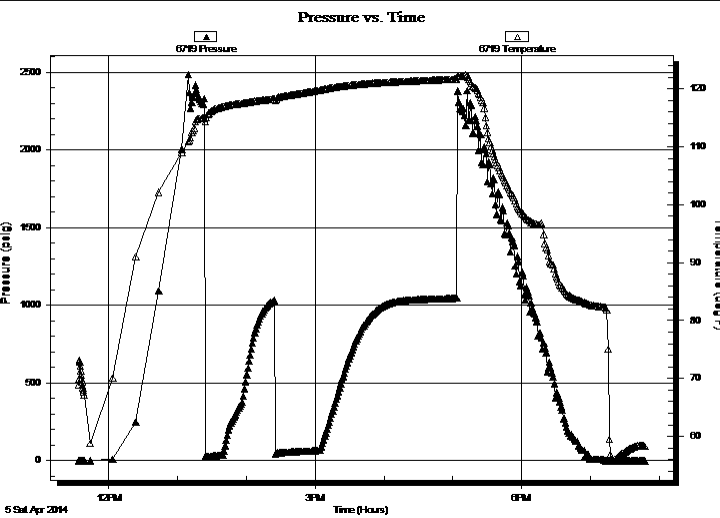
5-28s-18w Kiowa, Co.
Heft #4-5
 Job Ticket: 52002 **DST#: 3**
 Test Start: 2014.04.05 @ 11:29:41

GENERAL INFORMATION:

Formation: **Miss. Chert.**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 13:24:41
 Time Test Ended: 19:47:41
 Interval: **4778.00 ft (KB) To 4838.00 ft (KB) (TVD)**
 Total Depth: 4838.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2232.00 ft (KB)
 2219.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6719 Outside
 Press @ Run Depth: psig @ 4779.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.05 End Date: 2014.04.05 Last Calib.: 2014.04.05
 Start Time: 11:33:36 End Time: 19:47:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins.
 IS: Weak blow . B.O.B. in 21 mins., bleed off in 4 mins.
 FF: Strong blow . B.O.B. in 5 secs.
 FS: No blow . Bleed off for 20 mins.



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	MCO 95% m 5% o	0.30
60.00	GOCM 10% g 10% o 80% m	0.30
60.00	GOCM 2% o 25% g 75% m	0.30

* Recovery from multiple tests

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

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

5-28s-18w Kiowa, Co.
Heft #4-5
Job Ticket: 52002 **DST#: 3**
Test Start: 2014.04.05 @ 11:29:41

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:	6000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCO 95% <i>m</i> 5% <i>o</i>	0.295
60.00	GOCM 10% <i>g</i> 10% <i>o</i> 80% <i>m</i>	0.295
60.00	GOCM 2% <i>o</i> 25% <i>g</i> 75% <i>m</i>	0.295

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

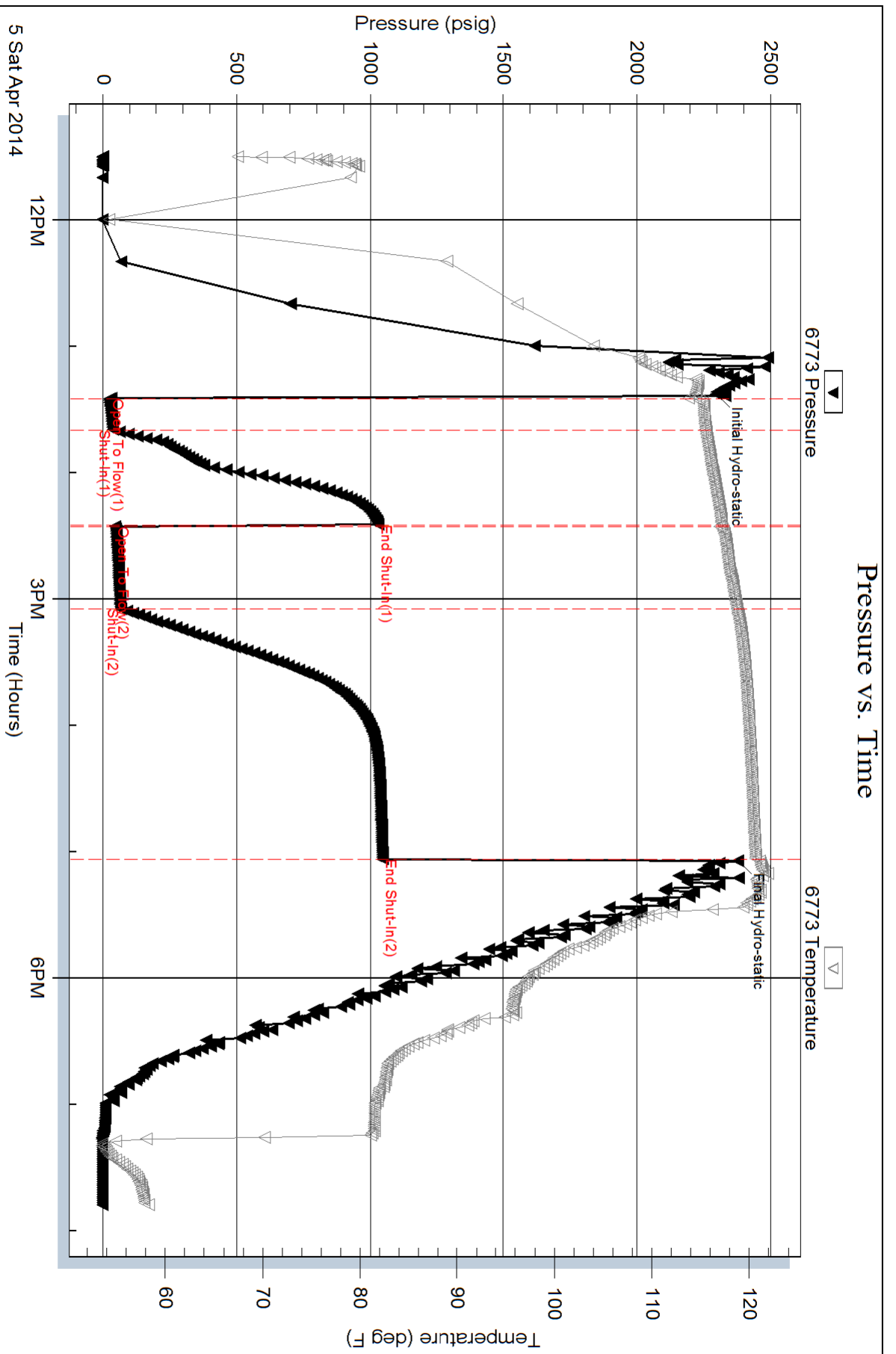
Recovery Comments: Not enough oil recovery to get gravity check.

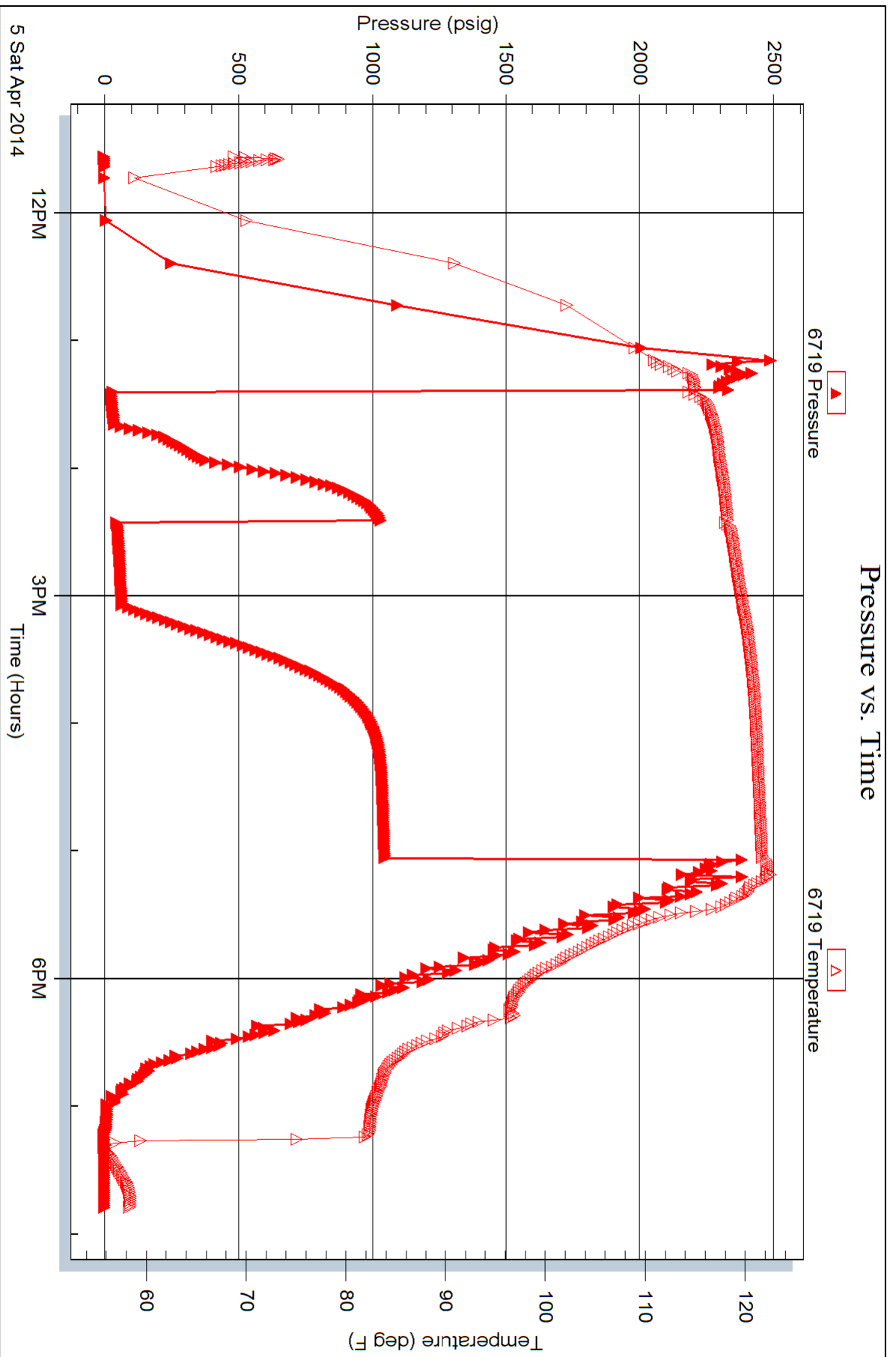
Serial #: 6773

Outside Herman L. Loeb, LLC.

Heft #4-5

DST Test Number: 3







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

5-28s-18w Kiowa, Co.
Heft #4-5
 Job Ticket: 52003 **DST#: 4**
 Test Start: 2014.04.06 @ 02:25:36

GENERAL INFORMATION:

Formation: **Miss. Chert.**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:06:21
 Time Test Ended: 12:08:06
 Interval: **4838.00 ft (KB) To 4853.00 ft (KB) (TVD)**
 Total Depth: 4853.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2232.00 ft (KB)
 2219.00 ft (CF)
 KB to GR/CF: 13.00 ft

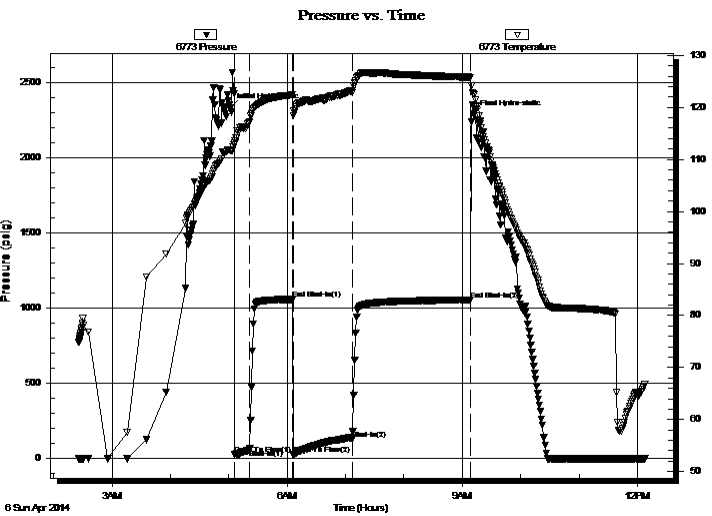
Serial #: 6773

Outside

Press @ Run Depth: 129.45 psig @ 4839.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.06 End Date: 2014.04.06 Last Calib.: 2014.04.06
 Start Time: 02:25:41 End Time: 12:08:06 Time On Btm: 2014.04.06 @ 05:01:21
 Time Off Btm: 2014.04.06 @ 09:11:36

TEST COMMENT:

IF: Strong blow . B.O.B. in 1 1/2 mins.
 IS: Weak blow . Surf., to 1/2".
 FF: Strong blow . B.O.B. in 20 secs., G.T.S. in 12 mins. Gauged gas see gas report.
 FSI: No blow . Bleed off 23 mins. thru 1" choke and blow line.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2330.56	111.76	Initial Hydro-static
5	30.20	113.11	Open To Flow (1)
20	58.08	117.12	Shut-In(1)
65	1057.81	122.46	End Shut-In(1)
65	25.65	119.25	Open To Flow (2)
126	129.45	122.80	Shut-In(2)
248	1053.88	125.78	End Shut-In(2)
251	2287.76	122.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	MO 15%w 85%o	0.16
64.00	MOW 15%w 20%o 65%m	0.31
150.00	WCMOG 5%w 15%m 30%g 50%o	0.74
180.00	WCMOG 5%w 20%g 30%o 45%m	1.76
0.00	4,394' G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.50	6.70
Last Gas Rate	0.13	16.50	11.57
Max. Gas Rate	0.13	16.50	11.57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

5-28s-18w Kiowa, Co.
Heft #4-5
 Job Ticket: 52003 **DST#: 4**
 Test Start: 2014.04.06 @ 02:25:36

GENERAL INFORMATION:

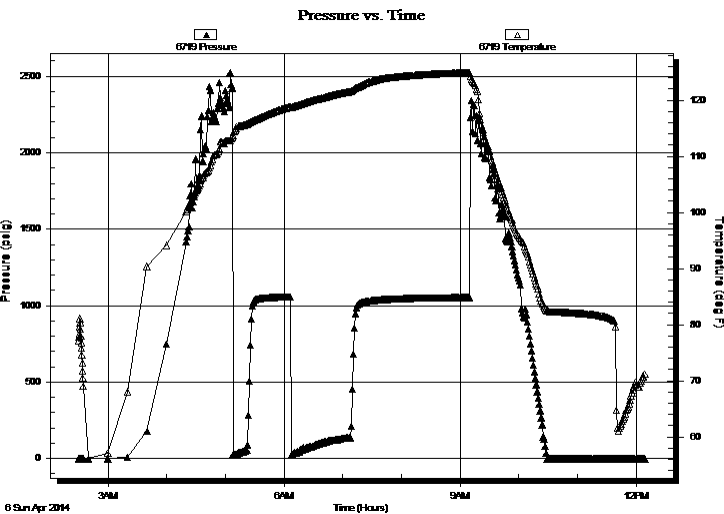
Formation: **Miss. Chert.**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:06:21
 Time Test Ended: 12:08:06
 Interval: **4838.00 ft (KB) To 4853.00 ft (KB) (TVD)**
 Total Depth: 4853.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2232.00 ft (KB)
 2219.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6719

Outside

Press @ Run Depth: psig @ 4839.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.06 End Date: 2014.04.06 Last Calib.: 2014.04.06
 Start Time: 02:29:41 End Time: 12:09:21 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 1 1/2 mins.
 IS: Weak blow . Surf., to 1/2".
 FF: Strong blow . B.O.B. in 20 secs., G.T.S. in 12 mins. Gauged gas see gas report.
 FS: No blow . Bleed off 23 mins. thru 1" choke and blow line.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
32.00	MO 15%w 85%o	0.16
64.00	MOW 15%w 20%o 65%m	0.31
150.00	WCMOG 5%w 15%m 30%g 50%o	0.74
180.00	WCMOG 5%w 20%g 30%o 45%m	1.76
0.00	4,394' G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.50	6.70
Last Gas Rate	0.13	16.50	11.57
Max. Gas Rate	0.13	16.50	11.57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC.

5-28s-18w Kiowa, Co.

P.O. Box 838
Lawrenceville, IL. 62439

Heft #4-5

Job Ticket: 52003

DST#: 4

ATTN: Jon Christensen

Test Start: 2014.04.06 @ 02:25:36

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:

21000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
32.00	MO 15% _m 85% _o	0.157
64.00	MOW 15% _w 20% _o 65% _m	0.315
150.00	WCMOG 5% _w 15% _m 30% _g 50% _o	0.738
180.00	WCMOG 5% _w 20% _g 30% _o 45% _m	1.760
0.00	4,394' G.I.P.	0.000

Total Length: 426.00 ft Total Volume: 2.970 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: M.S.1 dst #4

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Gauged gas see report.

Gravity 33.8 @ 62 degrees.

Rw is .37 @ 60 degrees.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Herman L. Loeb, LLC.

5-28s-18w Kiowa, Co.

P.O. Box 838
Lawrenceville, IL. 62439

Heft #4-5

Job Ticket: 52003

DST#: 4

ATTN: Jon Christensen

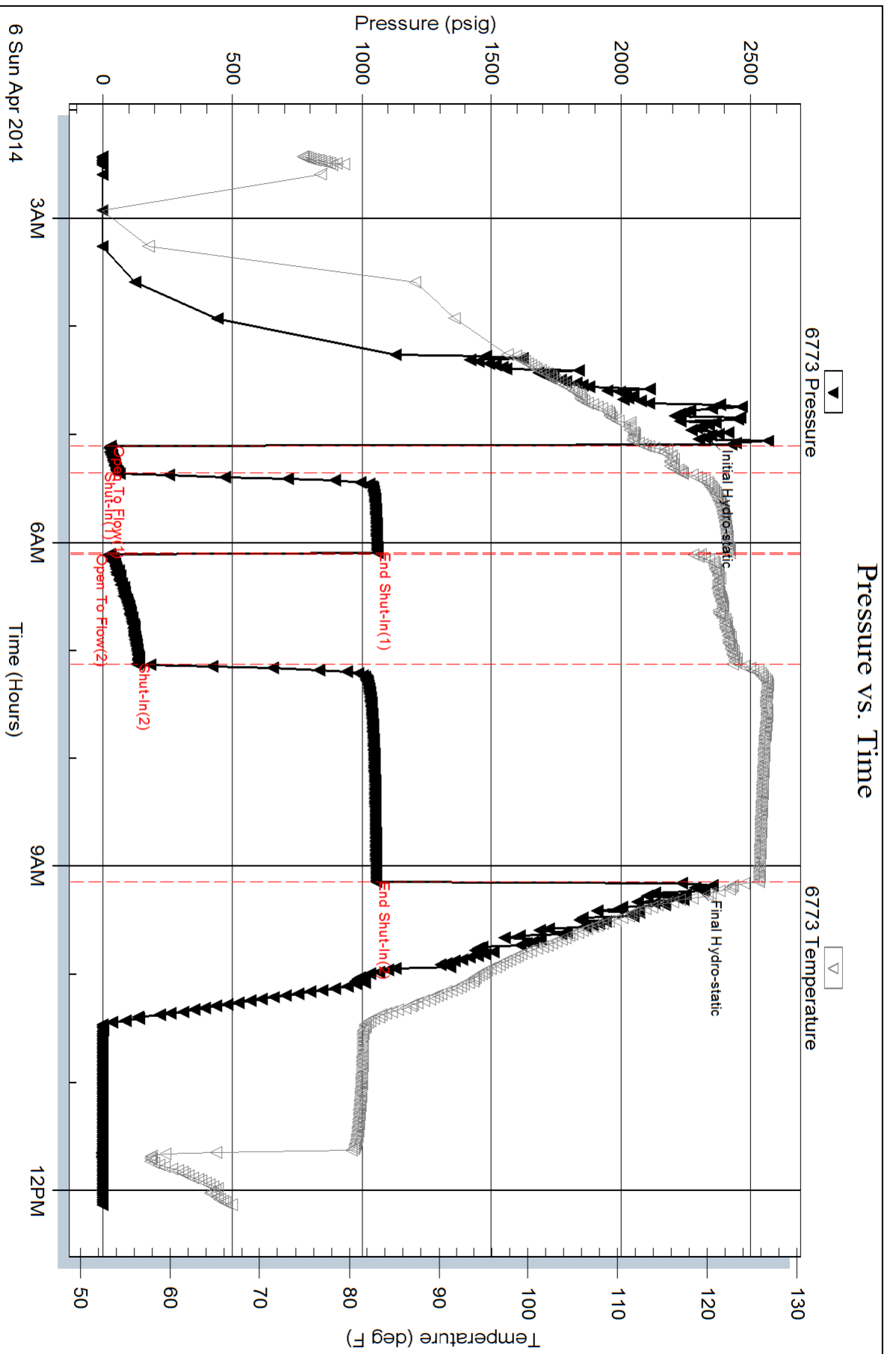
Test Start: 2014.04.06 @ 02:25:36

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.13	3.50	6.70
2	20	0.13	3.50	6.70
2	30	0.13	8.50	8.57
2	40	0.13	13.00	10.26
2	50	0.13	16.50	11.57

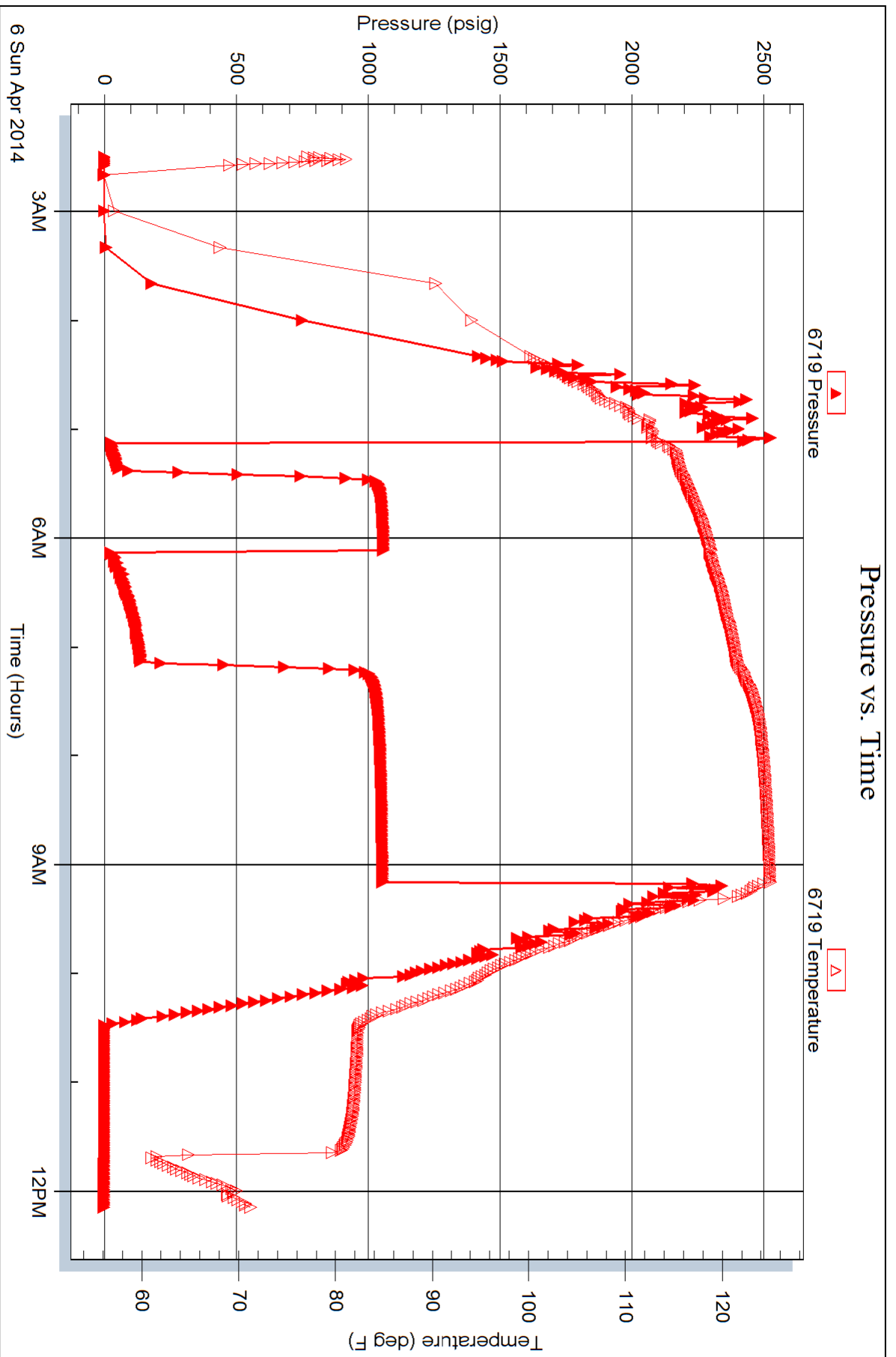


Serial #: 6719

Outside Herran L. Loeb, LLC.

Heft #4-5

DST Test Number: 4





176
711 Heft 2
9438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 04/01/2014
INVOICE NUMBER 1718 - 91452807		

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 Heft 4-5
O LOCATION
B COUNTY Kiowa
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40707817	20920		Net - 30 days	05/01/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/30/2014 to 03/30/2014</i>				
0040707817				
171810365A Cement-New Well Casing/Pi 03/30/2014				
Cement 13 3/8" Conductor				
Common Cement	280.00	EA	11.52	3,225.60 T
Celloflake	70.00	EA	2.66	186.48 T
Calcium Chloride	528.00	EA	0.76	399.17 T
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.06	107.10
Heavy Equipment Mileage	70.00	MI	5.04	352.80
"Proppant & Bulk Del. Chgs., per ton mil	462.00	EA	1.58	731.81
Depth Charge; 0-500'	1.00	EA	720.00	720.00
Blending & Mixing Service Charge	280.00	BAG	1.01	282.24
"Service Supervisor, first 8 hrs on loc.	1.00	EA	126.00	126.00

PAID
48703
APR 10 2014

SCANNED

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	6,131.20 272.50 6,403.70
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

004007217
FIELD SERVICE TICKET

1718 10365 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>3-30-14</u>	DISTRICT: <u>PRATT KS</u>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: <u>HERMAN LOEB</u>	LEASE: <u>45FT</u>	WELL NO.:								
ADDRESS:	COUNTY: <u>KIOWA</u>	STATE: <u>KS</u>								
CITY:	STATE:	SERVICE CREW: <u>Sullivan, Graw, Hanscock</u>								
AUTHORIZED BY:	JOB TYPE: <u>CNW 13 3/8 Conductor</u>									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>33705-20920</u>	<u>30</u>						<u>3-29-14</u>			<u>9:00</u>
<u>19826-19860</u>	<u>30</u>						<u>3-29-14</u>			<u>9:00</u>
<u>37900</u>							<u>3-30-14</u>			<u>2:45</u>
										<u>3:15</u>
										<u>3:30</u>
										<u>35</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: Alan Lott
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>CP 100 C</u>	<u>Com cont</u>	<u>SK</u>	<u>280</u>		<u>4,480 00</u>
<u>CC 102</u>	<u>CellFAK</u>	<u>lb</u>	<u>70</u>		<u>259 00</u>
<u>CC 109</u>	<u>calcium chloride</u>	<u>lb</u>	<u>528</u>		<u>554 40</u>
<u>E 100</u>	<u>pick up</u>	<u>mi</u>	<u>35</u>		<u>148 75</u>
<u>E 101</u>	<u>Heavy Seat</u>	<u>mi</u>	<u>70</u>		<u>490 00</u>
<u>E 113</u>	<u>Bulk Delivery</u>	<u>TW</u>	<u>462</u>		<u>1,016 40</u>
<u>PE 200</u>	<u>Depth change 0.500'</u>	<u>SA</u>	<u>1</u>		<u>1,000 00</u>
<u>PE 240</u>	<u>Blend mix</u>	<u>SK</u>	<u>280</u>		<u>392 00</u>
<u>S 003</u>	<u>Serious Seafloor</u>	<u>SA</u>	<u>1</u>		<u>175 00</u>

SUB TOTAL 16 6,131.20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>16 6,131.20</u>

SERVICE REPRESENTATIVE: <u>Robert Sullivan</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Alan Lott</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO. _____	

Customer <i>HERMAN L. LOEB</i>	Lease No.	Date <i>03-30-14</i>	
Lease <i>HEFT</i>	Well # <i>45</i>	County <i>KIOWA</i>	State <i>KS</i>
Field Order # <i>10367</i>	Station <i>PRATT</i>	Casing <i>1 3/8</i>	Depth <i>259'</i>
Type Job <i>CNW 13 3/8 Cond</i>	Formation	Legal Description <i>5-28-18</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>1 3/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>275'</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>39</i>	Volume	From	To	Pad	Min			10 Min.
Max Press <i>400</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>square</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>250</i>	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE SOFT</i>	Treater <i>Robert J. [Signature]</i>
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Service Units	<i>37900</i>	<i>33208</i>	<i>20920</i>	<i>19826</i>	<i>19860</i>				
Driver Names	<i>Sullivan</i>	<i>Greaves</i>	<i>Hanson</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:00</i>					<i>on bc safety meeting</i>
					<i>Run 7 Jt's 13 3/4</i>
					<i>CASING ON BOTTOM</i>
					<i>Hook Rig circ csg.</i>
<i>2:45</i>	<i>150</i>		<i>3</i>	<i>3.5</i>	<i>8t SPACK</i>
				<i>5.5</i>	<i>MIX CNT 280 SK COM. 2%CC 1/4 CF</i>
			<i>59</i>		<i>CNT MIXED</i>
				<i>4</i>	<i>8t DISP</i>
<i>3:15</i>	<i>200</i>		<i>39</i>		<i>PHY DOWN</i>
					<i>Circulated 10 BBL CNT PRT</i>
					<i>JOB COMPLETE</i>
					<i>[Signature]</i>



1076
771 Hegt 2
9438

PAGE 1 of 1	INVOICE NO 1007589	INVOICE DATE 03/31/2014
INVOICE NUMBER 1717 - 91451903		

Liberal (620) 624-2277
 B HERMAN L LOEB LLC
 I PO Box: 838
 L LAWRENCEVILLE
 L IL US 62439
 T
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Hegt #4-5
 O **LOCATION**
 B **COUNTY** Kiowa
 S **STATE** KS
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi
 E **JOB CONTACT**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40707521	99999		Net - 30 days	04/30/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 03/30/2014 to 03/30/2014				
0040707521				
171705689A Cement-New Well Casing/Pi 03/30/2014 8 5/8" Surface				
A-Con' Blend	175.00	EA	12.96	2,268.00 T
Premium/Common	175.00	EA	11.52	2,016.00 T
Celloflake	88.00	EA	2.66	234.43 T
Calcium Chloride	825.00	EA	0.76	623.70 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	162.00	162.00
"8 5/8"" Guide Shoe (Red)"	1.00	EA	396.00	396.00
"Flapper Ins. Ft. Vlv., 8 5/8"" (Blue)	1.00	EA	201.60	201.60
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.06	107.10
Heavy Equipment Mileage	70.00	MI	5.04	352.80
"Proppant & Bulk Del. Chgs., per ton mil	577.50	EA	1.58	914.76
Depth Charge; 501'-1000'	1.00	EA	864.00	864.00
Blending & Mixing Service Charge	350.00	BAG	1.01	352.80
High Head Charge (Over 6')	1.00	EA	216.00	216.00
Plug Container Util. Chg.	1.00	EA	180.00	180.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	126.00	126.00

PAID
48703
APR 1 0 2014
SCANNED

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL 9,015.19 TAX 367.66 INVOICE TOTAL 9,382.85
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Cement Report

Customer	Herman Loeb	Lease No.		Date	3-30-14
Lease	West	Well #	4-5	Service Receipt	05689
Casing	8 5/8" 24"	Depth	627'	County	KS
Job Type	242-8 5/8" Surface	Formation		Legal Description	S-28-18

Pipe Data		Perforating Data		Cement Data
Casing size	8 5/8" 24"	Tubing Size		Lead 175 sk A-Con
Depth	627'	Depth	From To	
Volume	Disp = 37.4 bbl	Volume	From To	Tail in 175 sk Common
Max Press	1500 #	Max Press	From To	
Well Connection	TD-620'	Annulus Vol.	From To	
Plug Depth	ST-40'	Packer Depth	From To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00					on loc-site assessment (short trip)
5:00					spot trucks - rig up
5:30					start csq + float equip
6:00					csq on btm, break circ
6:00					safety meeting - JSA
6:30					pressure test 2000 #
6:30	200		77	5	mix + pump 175 sk A-Con w/ 3% CC, 1/4 #CF @ 12 pps - 2.47 ft ³ /sk
6:45	200		37.4	5	switch to tail 175 sk Common w/ 2% CC, 1/4 #CF @ 15.6# - 1.20 ft ³ /sk
7:00	50		0	5	drop plug, disp csq
9:00	700		37.4	0	land plug, float held circ cmt to surface job complete

Service Units	34726			
Driver Names	A Owen			

Allen
Customer Representative

J Bennett
Station Manager

A Owen
Cementer



0076
771 Heft 2
9438

PAGE 1 of 1	CONTRACT NO 1007589	INVOICE DATE 04/08/2014
INVOICE NUMBER 1718 - 91458839		

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 Heft 4-5
O LOCATION
B COUNTY Kiowa
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
T JOB CONTACT
E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40710110	27463		Net - 30 days	05/08/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 04/07/2014 to 04/07/2014				
0040710110				
171810211A Cement-New Well Casing/Pi 04/07/2014				
Cement 5 1/2" Longstring				
50/50 POZ	250.00	EA	8.36	2,089.86 T
Celloflake	63.00	EA	2.81	177.14 T
Gypsum	1,050.00	EA	0.57	598.46 T
FLA-322	105.00	EA	5.70	598.46 T
Mud Flush	1,000.00	EA	1.14	1,139.92 T
Gilsonite	1,500.00	EA	0.51	763.75 T
KCL Potasium Chloride	566.00	EA	1.14	645.19 T
Claymax KCL Substitute	5.00	EA	26.60	132.99 T
"Latch Down Plug & Baffle, 5 1/2" (Blue)"	1.00	EA	303.98	303.98
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	273.58	273.58
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	83.59	1,003.13
"5 1/2" Basket (Blue)"	1.00	EA	220.38	220.38
"Cement Scratchers Cable Type, 5 1/2" "	5.00	EA	57.00	284.98
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.23	113.04
Heavy Equipment Mileage	70.00	MI	5.32	372.37
"Proppant & Bulk Del. Chgs., per ton mil	368.00	EA	1.67	615.25
Depth Charge; 4001'-5000'	1.00	EA	1,915.07	1,915.07
Blending & Mixing Service Charge	250.00	BAG	1.06	265.98
Plug Container Util. Chg.	1.00	EA	189.99	189.99
"Service Supervisor, first 8 hrs on loc.	1.00	EA	132.99	132.99

PAID
42911
APR 15 2014
SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,836.51
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	439.42
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,275.93
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

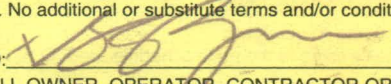
FIELD SERVICE TICKET
1718 10211 A

DATE _____ TICKET NO. _____

DATE OF JOB 4-7-14 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Heiman L LooB LLC		LEASE Heft WELL NO. 4-5							
ADDRESS		COUNTY kiowa STATE KS							
CITY STATE		SERVICE CREW MATTAL, Kyerin, COB							
AUTHORIZED BY		JOB TYPE: CNW Long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
37586	1						4-7-14		8:00
						ARRIVED AT JOB		AM/PM	12:50
27463	1					START OPERATION		AM/PM	7:37
						FINISH OPERATION		AM/PM	8:30
19959/73768	1					RELEASED		AM/PM	9:30
						MILES FROM STATION TO WELL			35

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

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

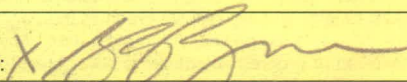
SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 P02	SK	200		2,200 01
CP 104	50/50 P02	SK	50		550 00
CC 102	Celloflake	LB	63		233 10
CC 113	SYP54M	LB	1050		787 50
CC 129	KIA-322	LB	105		787 50
CC 201	Gilsonite	LB	1500		1,005 00
C 700	KCl POTASSIUM CHLORIDE	LB	566		849 00
CF 607	LATCH DOWN Plug + Baffle 5 1/2	ea	1		400 00
CF 1251	AUTO GIL FLOW STOP 5 1/2	ea	1		360 00
CF 1651	BASF Turbolizer 5 1/2	ea	12		1,320 00
CF 1901	Basur 5 1/2	ea	1		290 00
CF 2001	CNT SCRATCHED CABLE TYPE 5 1/2	ea	5		375 00
C 704	CLAY MAX	gal	5		175 00
CC 151	MUD FLUSH	gal	1000		1,500 00

SUB TOTAL **10**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Mike Mattal	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer Herman L Loeb LLC Lease No. _____ Date 4-7-14
 Lease HEFT Well # 4-5
 Field Order # _____ Station Pratt Casing 5 1/2 Depth _____ County KS State KS
 Type Job CNW Long String Formation _____ Legal Description 5-28-18

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>5 1/2</u>	Tubing Size _____	Shots/Ft _____	_____	Acid <u>250 SAs 50/50</u>	RATE _____	PRESS _____	ISIP <u>1/4" CF</u>	_____
Depth <u>4867</u>	Depth _____	From _____	To _____	Pre Pad <u>5% F16-32</u>	Max <u>590 K1</u>	_____	5 Min. _____	_____
Volume <u>115.5</u>	Volume _____	From _____	To _____	Pad _____	Min _____	_____	10 Min. _____	_____
Max Press <u>1500</u>	Max Press _____	From _____	To _____	Frac _____	Avg _____	_____	15 Min. _____	_____
Well Connection _____	Annulus Vol. _____	From _____	To _____	Flush <u>115.5</u>	HHP Used _____	_____	Annulus Pressure _____	_____
Plug Depth <u>4855</u>	Packer Depth _____	From _____	To _____	Gas Volume _____	_____	_____	Total Load _____	_____

Customer Representative George Payne Station Manager Kevin Godley Treater Mike Mattai
 Service Units 37586 27463 19959 73768
 Driver Names Mattai Kuemin CO BB

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:50					ON LOCATION / SAFETY MEETING
3:05					RUN 5 1/2 15.5" CASING / RASOUT ON #7
					TUBOLIZOS ON #1,2,3,4,8,10,12,14,16,20,24,28
4:30					Circulate for 30 minutes
6:20					CASING ON BOTTOM
6:30					Hook up to casing / finish casing w/ H ₂ O
7:37	300		5		Pump 5 BBL WATER
7:38	250		24		Pump 24 BBL MUD FLUSH
7:42	200		5		Pump 5 BBL WATER
7:43	200		48		MIX 200 SAs 50/50 P-2
7:55	-		6	3	WASH PUMP + LINE, (clean plug)
7:57	200		-	6	Start 2% KCl displacement
8:10	250		85	5.5	Life Pressure
8:18	350		95	5	STOP PERFORATING
8:20	500		105	4	SLOW RATE
8:24	900 1400		115.5	115.5	Plug down, PSI to 1400, release + hold
			7.5		Run for 1 hour 40'
					Circulate then Turn off
					JOB COMPLETE
					Thank You!
					MIKE MATAI