



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1226804
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1226804

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	NAUMANN 2-32
Doc ID	1226804

Tops

Name	Top	Datum
Chase	2435	-212
Stotler LS	3398	-1175
Heebner Shale	4044	-1821
Lansing 'A'	4207	-1984
Lansing/KC 'H'	4373	-2150
K.C. 'I'	4422	-2199
K.C. 'J'	4459	-2236
Hertha	4567	-2344
BKC	4601	-2378
Marmaton	4647	-2424
Cherokee Shale	4734	-2511
Miss. Chert	4790	-2567
Basal Miss. LS	4834	-2611
Kinderhook Shale	4841	-2618

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3 foot interval	Shot	4778 - 4781
3	18 foot interval	Shot	4790 - 4808
		Acid; 500g 15% MCA/Fe	4778 - 4808
		Acid; 1,000g 15% MCA/Fe	4778 - 4808
		Frac; 203 BBL N2 Foam 7700# sd	4778 - 4808
		Well Flowing	

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Naumann #2-32
Location: 630' FSL & 1917' FEL, Sec. 32-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21796-0000 Region: Einsel Field
Spud Date: 7/4/2014 Drilling Completed: 7/11/14
Surface Coordinates: 630' FSL & 1917' FEL, Sec. 32-T27S-R18W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2210' K.B. Elevation (ft): 2223'
Logged Interval (ft): 3900' To: 4855' Total Depth (ft): 4855'
Formation: Kinderhook at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3295'; Chemical Gel 3295' to 4855'
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') 4211' - 4227'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/30 Sec., FFP Strong Blow BOB/10 Sec., no Gas to Surface, no Blowback on SI's; REC: 816' Gas in Pipe, 60' GCWM(20%G, 15%W, 65%M) w/few oil spots, CI 34,000, Mud 5000; IFP 12-21#, ISIP 947#, FFP 21-34#, FSIP 1090#, IHP 2207#, FHP 2122#, BHT 118 Deg. F.

DST #2(Kansas City 'H' + 'I' zones) 4406' - 4432'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/35 Sec., 6" Blowback on ISI, FFP Strong Blow BOB/2.5 Min, no Gas to Surface, 3" Blowback on FSI; REC: 748' Gas in Pipe, 20' GO&WCM(42%G, 25%O, 30%W, 3%M), 192' GO&WCM(35%G, 10%O, 45%W, 10%M), 618' MSW(97%W, 3%M) CI 59,000, Mud 9000; IFP 64-195#, ISIP 1377#, FFP 217-402#, FSIP 1334#, IHP 2242#, FHP 2187#, BHT 122 Deg. F.

DST #3(Kansas City 'J' zone) 4450' - 4466'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Good Blow building to 11", FFP Good Blow building to BOB/17 Min., 0.25" Blowback on FSI; REC: 528' Gas in Pipe, 60' G&OCWM(10%G, 15%O, 23%W, 42%M) CI 13,000, Mud 13,000; IFP 16-30#, ISIP 829#, FFP 36-55#, FSIP 876#, IHP 2172#, FHP 2067#, BHT 119 Deg. F.

DST #4(Miss. Chert) 4759' - 4819'(Corrected Depths to Log) Test Times 15"-45"-60"-120" IFP Strong Blow BOB/1 Min., FFP Strong Blow Gas to Surface in 4 Min., Gauged Max. 11.8 MCFG in 60 " of FFP, No Blowback on SI's; REC: 80' GSOCWM(12%G, 2%O, 85%M, 1%W) CI 9,000, Mud 9,000; IFP 53-58#, ISIP 1278#, FFP 55-80#, FSIP 1385#, IHP 2437#, FHP 2373#, BHT 124 Deg. F.

Comments

7/3/14 MIRU Sterling Drilling Co. Rig #5; 7/4/14 Spud at 12:00 AM.,TD. 264' - CCH for Conductor Pipe; 7/5/14 TD. 624' - WOC; 7/6/14 Drilling at 1950'; 7/7/14 Drilling at 3745'; 7/8/14 TD. 4230' - TIH after DST #1; 7/9/14 TD. 4436' - DST #2; 7/10/14 Drilling at 4512'; 7/11/14 TD. 4824' - DST #4; 7/12/14 RTD. 4855', LTD. 4850' - TIH to LDDP for setting 5 1/2" Production Casing.

Set new 13 3/8" Conductor Casing at 260' with 280sx. of Cement (Basic Energy Services). Cement did Circulate to Cellar. PD. at 11:30 AM. 7/4/14.

Set new 8 5/8" Surface Casing at 620' with 400 sx. of Cement(Basic Energy Services). Cement did circulate. PD. at 4:30 AM. 7/5/14.

Set new 5 1/2"(15.5#) Production Casing at 4847' with 200 sx. of "Loeb Blend" cement(Basic Energy Services). PD. at 10:15 PM. on 7/12/14.

Surveys: 0.75 Deg. at 264'(Conductor); 0.75 Deg. at 624'(Surface Casing); 2.25 Deg. at 4230'(DST #1); 1.25 Deg. at 4436'(DST #2); 1.75 Deg. at 4824'(DST #4).

Pipe Strap at 4230'(DST #1): Strap 0.20' Long to the Board, no correction made to the Board.

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

LOG TOPS: Chase 2435(-212), Stotler Lmst. 3398(-1175), Howard 3602(-1379), Heebner Shale 4044(-1821), Toronto 4060(-1837), Brown Lmst. 4200(-1977), Lansing 'A' 4207(-1984), Lansing/KC 'H' 4373(-2150), K.C. 'I' 4422(-2199), K.C. 'J' 4459(-2236), Stark Shale 4508(-2285), Hertha 4567(-2344), BKC 4601(-2378), Marmaton 4647(-2424), Cherokee Shale 4734(-2511), Miss. Chert 4790(-2567), Basal Miss. Lmst. 4834(-2611), Kinderhook Shale 4841(-2618).

NOTE: This log was shifted upward by 3' 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
- Gyp
- 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

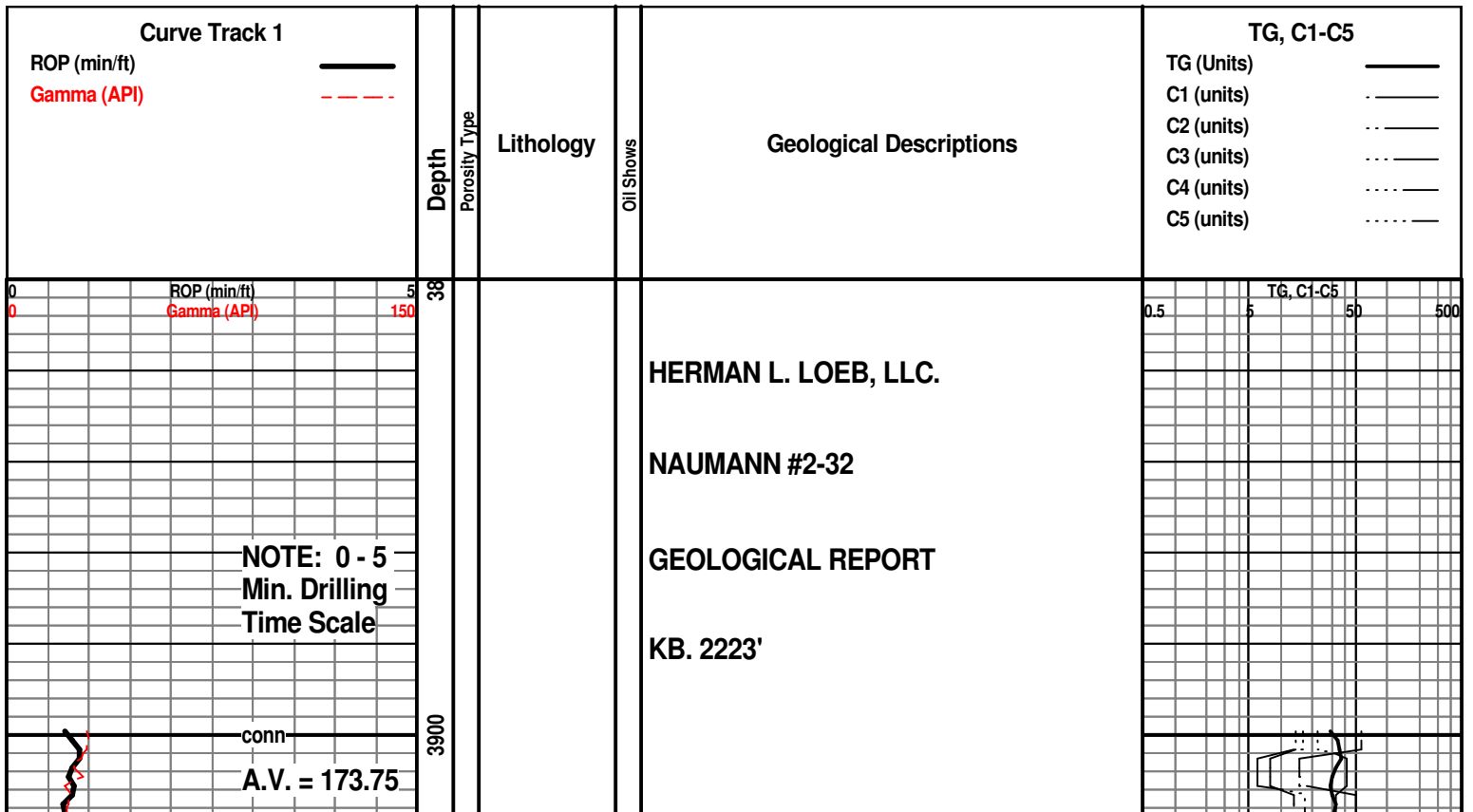
- Core
- Dst

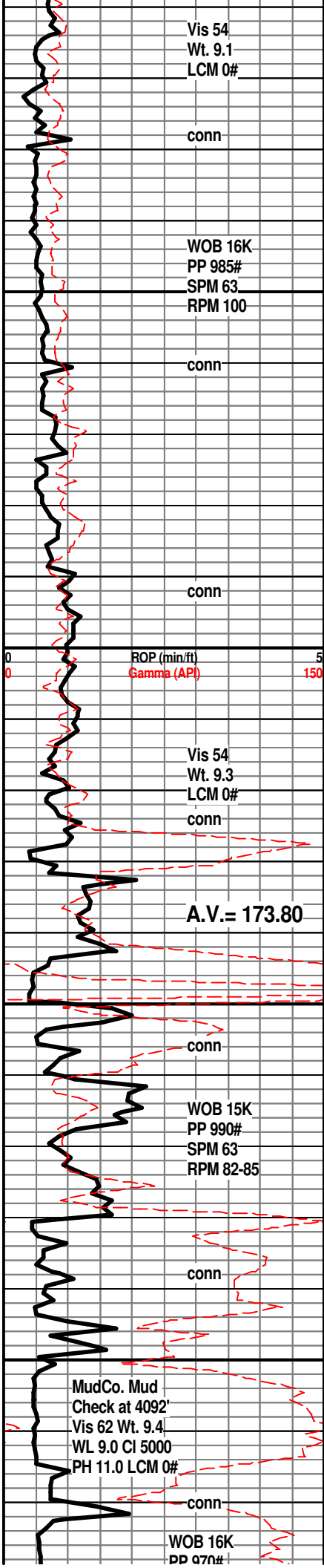
EVENT

- Rft
- Sidewall

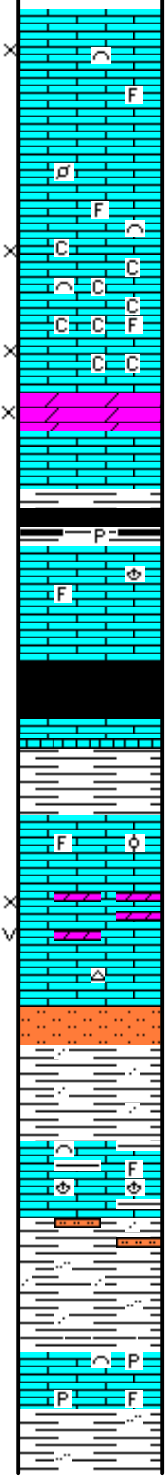
OIL SHOW

- Even





3950
4000
4050
4100



LM; tan to lt brn, fxln w/scat foss mat, interbdd lt gy lmst, scat lt yel min fluor, no stn or odor, ns.

Drilling with PDC Bit - 20' Samples start at 4000'

LM; wh, off wh, highly foss ip, fair to gd interpart/interxln por, much soft chalk and chalky mtx, scat lt yel min fluor, ns.

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

SH; dk gy, some blk, platy, rare pyr

LM; lt gy to lt brn, fxln to micritic, blocky ip, rare foss mat, no vis por, v. dull yel min fluor, no stn or odor, ns.

HEEBNER SHALE 4044(-1821)

SH; blk, carb, platy, trc gas bubbles
LM; med brn, hd, blocky, micritic

TORONTO 4060(-1837)

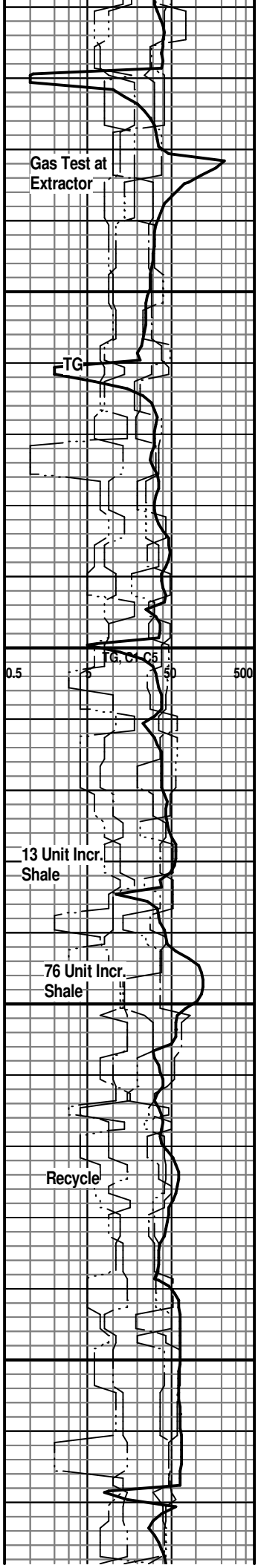
LM; tan to off wh, buff, some lt gy, fxln to micritic, foss ip, interbdd fxln to partly sucrosic/dolomitic lmst, fair interxln w/scat vug por, scat dull yel min fluor, no vis stn, no gas kick, minor amt. of wh cht, ns.

DOUGLAS SHALE 4080(-1857)

SLTST; lt gy, mica ip, soft, sandy ip.
40 Stand Wiper Trip at 4092', Washed through bridges at 3240' and 3960'
LM; med to dk gy, gy brn, foss ip, most dense, interbdd hd argil lmst.

SH; lt to med gy, silty to sandy, occ mica, platy

LM; med gy, gy brn, foss ip, pyr, dense



SPM 63
RPM 80-85

conn

4150

conn

A.V. = 174.40

ROP (min/ft)
Gamma (API)

4200

DST #1
conn
Lansing A
4211' - 4227'
CFS. at 4227'

Scale Char
ROP (min/ft)
Gamma (API)

4250

MudCo. Mud
Check at 4230'
Vis 61 Wt. 9.5
WL 9.6 CI 9000
PH 11.0 LCM 0#
A.V. = 165.00
at 58 SPM

conn

WOB 38K
PP 965#
SPM 58
RPM 80

conn

Vis 54
Wt. 9.2
LCM 0#

conn

WOB 38-40K
PP 1000#
SPM 60
RPM 75-80

4250

4300

SH; lt to med gy, platy, occ silty

SH; lt to med gy, platy, occ silty

SH; lt to med gy, platy, occ mica, silty ip.

BROWN LMST. 4200(-1977)

LM; med to dk brn, dense, blocky, rare pyr

LANSING 'A' 4207(-1984)

LM; lt to med brn, oolitic, med to lrg moldic por, scat vug por, most brittle, med to brite yel fluor, abnt gas bubbles, trc lt brn oil stn, v. faint odor, weak to no cut, GAS SHOW

LM; lt gy brn, hd, foss ip, scat off wh cht, tite
DST #1: Lansing 'A' 4211' - 4227'

Corrected Depths to Log
Drilling with Button Bit below 4230'

LANSING 'B' 4237(-2014)

LM; lt to med brn, foss ip, well cem, blocky, no vis por, no fluor, ns.

LM; tan to buff, lt gy, foss ip, fair dev. vug por, minor chalky mtx, interbdd wh to off wh cht, lt yel fluor, no vis stn, no odor, no cut, ns.

LM; tan to buff, lt brn, fxln to micritic, rare poor interxln por, most w/no vis por, scat off wh/tan cht, v. dull to no fluor, no stn, ns.

LM; lt brn, tan, foss ip w/scat small pellets, most well cem, lt yel min fluor, no stn, interbdd brn cht

SH; med gy, silty ip, firm, occ foss

DOL; lt brn, sucrosic, some lmy, fair interxln and vug por, lt yel min fluor, no stn or odor, no gas kick

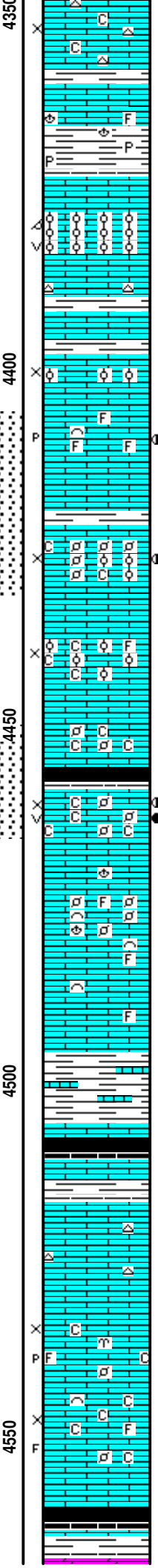
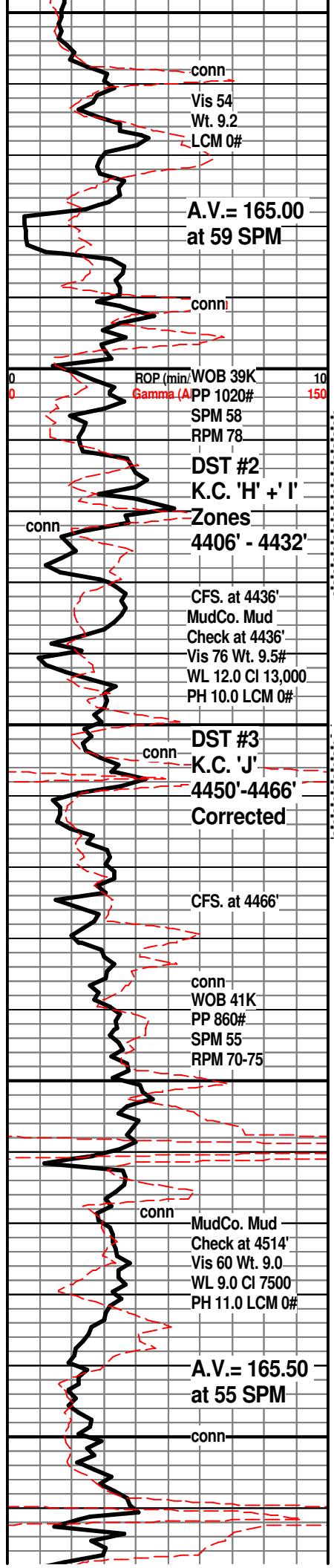
LM; tan to off wh, buff, fxln w/occ sucrosic text, trc brn oolitic lmst(slough?), poor interxln por, spotted lt yel fluor, no stn, occ smoky cht

LM; tan to cream, off wh - wh, fxln w/fair interxln por, interbdd soft chalk and chalky lmst, scat lt yel min fluor, no stn or odor, no gas kick

0.5 5 50 500

460 Unit Incr.
SHOW

TG



LM; tan to cream, buff, f to med xln, rare chalky mtx, poor interxln por, no fluor, interbnd wh to off wh cht, ns.

LM; med gy, gy brn, foss ip, tite

SH; med to dk gy, platy, occ pyr

LANSING/KC. 'H' 4373(-2150)

LM; tan to buff, lt gy brn, oolitic w/most small to med size moldic por, occ vug por, brittle, lt to occ med yel fluor, no vis stn, questionable gas bubbles, no sample shows

LM; lt gy, lt brn, dense, micritic, cherty ip, tite

LM; lt brn, foss w/rare pellets, partly oolitic(poss slough), lt yel fluor, no vis stn

LM; lt brn, foss ip, scat fair p-p por, spotted lt brn oil stn, faint to fair odor, med/brite yel fluor, fair cut, trc gas bubbles

KANSAS CITY 'I' 4422(-2199)

LM; tan to lt brn, buff, foss - finely pelletal w/some oolites, loosely cem, fair oil odor, most spotted lt brn stn, brite yel fluor, some chalky

**DST #2: K.C. 'H' + 'I' 4406' - 4432'
Corrected Depths to LOG**

LM; off wh, tan, buff, foss - finely oolitic ip, minor chalky mtx, gd interpart/interxln por, dull yel fluor, no vis stn, no odor, no gas kick

LM; tan to cream, buff, foss w/rare small ooids, pellets, chalky ip, most tite, no fluor, ns.

KANSAS CITY 'J' 4459(-2236)

LM; tan, med xln/gran text, gd interxln and small vug por, scat foss mat, SFO, gas bub, fair odor, brite yel fluor, gd cut, spotted/even lt brn stn, some w/chalky lmst and brite yel fluor, poss barren por

**DST #3: K.C. 'J' Zone 4450' - 4466'
Corrected Depths to LOG**

LM; lt to lt brn, foss ip, well cem hash/pellets, most dense, no vis por, dull yel fluor, ns.

LM; lt to med brn, foss ip, hd, blocky, tite

SH; med to dk gy, gy brn, lmy, tite

STARK SHALE 4508(-2285)

SH; blk, carb ip, trc gas w/faint gas odor

SWOPE 4517(-2294)

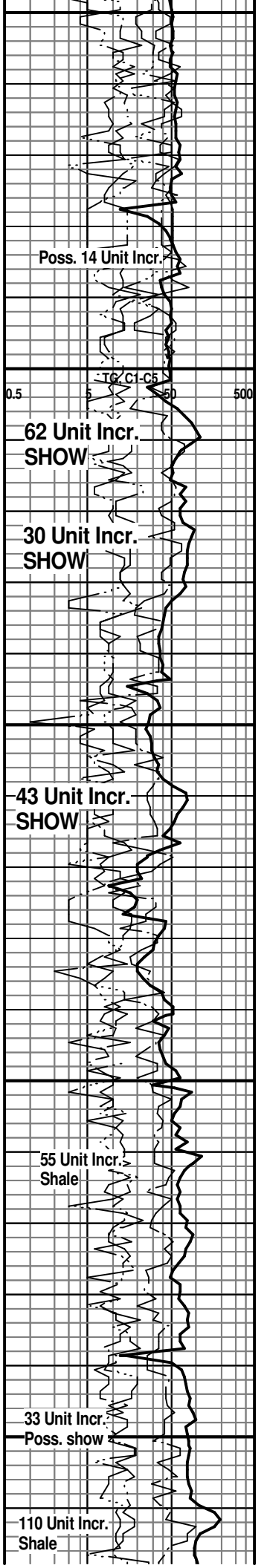
LM; tan to off wh, buff, fxln, scat lt gy cht, no vis por, no fluor, no stn or odor, ns.

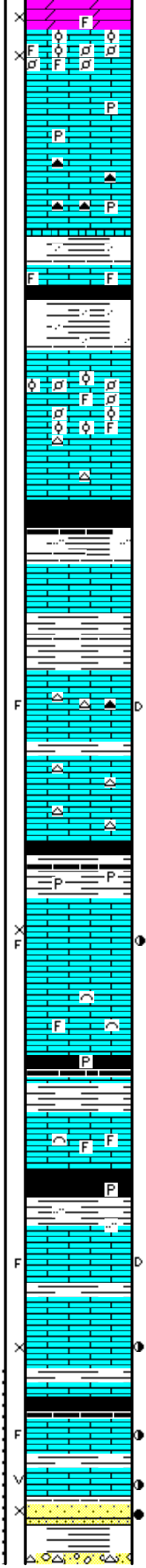
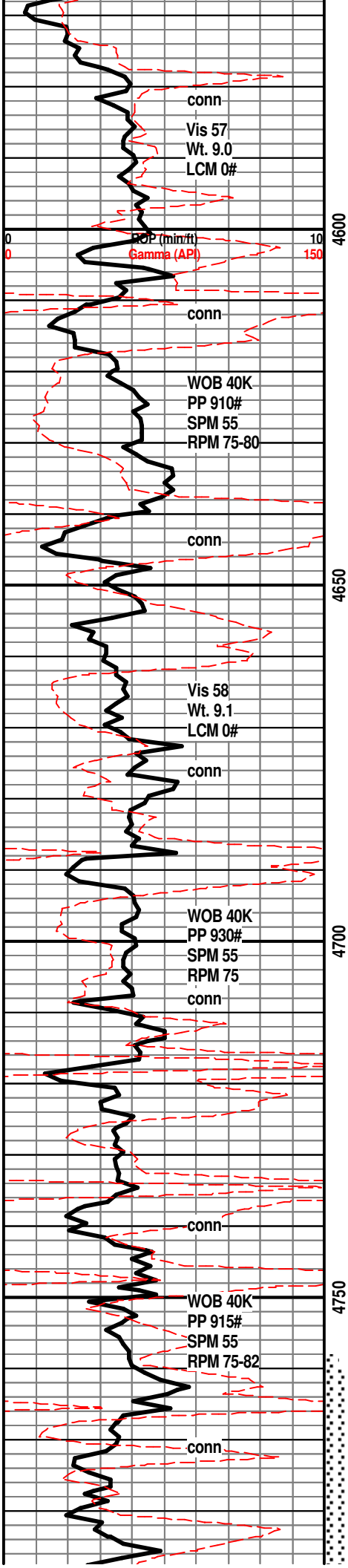
LM; tan to buff, cream, foss w/scat fair interpart/p-p por, minor chalky mtx, no fluor, no stn or odor, ns.

LM; tan to cream, off wh, med xln w/occ cse spar calc xtals, minor chalky mtx, foss ip, fair interxln por, trc frags, no fluor, no vis stn, no sample shows

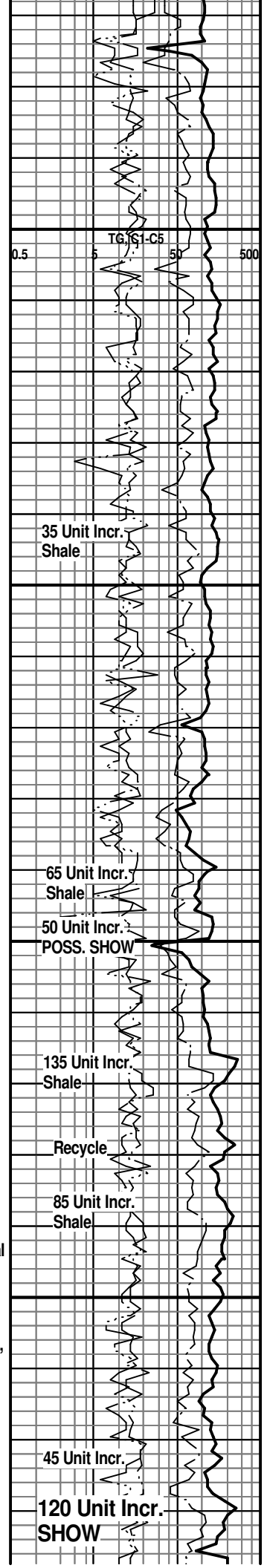
SH; blk, platy, carb ip, trc gas

HERTHA 4567(-2344)





DOL; tan, tan, sacros, v. soft, gd interxn por, trc foss mat, lt yel min fluor, no stn, ns.
 LM; lt brn, highly foss/oolitic ip, some brittle, med yel fluor, fair interpart por, no vis stn, no odor, no gas kick
 LM; med to dk brn, hd, scat pyr, occ smoky to dk gy cht, litho ip, tite
BASE KANSAS CITY 4601(-2378)
 SH; grn, gy grn, silty ip, firm
 LM; med gy brn, foss ip, hd
 SH; grn, maroon, blk, varic, silty ip, soft
PLEASANTON 4617(-2394)
 LM; tan to buff, pale yel, v. foss w/well cem ooids and pellets, occ cherty, lt yel min fluor, no stn, ns.
 LM; med brn, dense, blocky, micritic
 SH; blk, grn, med gy, maroon, varic, silty ip.
MARMATON 4647(-2424)
 LM; lt brn, lt gy w/pale grn tint, argil ip, most dense - micritic
ALTAMONT 4662(-2439)
 LM; lt brn, tan, most dense, micritic, interbdd gy to amber cht, few pcs w/blk tar/gilsonite on edges - poss frags, no stn, no fluor, no gas kick
 LM; tan to lt brn, hd, most micritic, scat tan to gy cht, no vis por, no fluor, ns.
 SH; blk, dk gy, platy, occ pyr
PAWNEE 4694(-2471)
 LM; lt brn, fxln, scat poor interxn por w/few frags, spotted med/dk brn oil stn, spotted med yel fluor, v. faint odor, looks tite
 LM; lt to med brn, foss ip, well cem, no vis por, scat lt yel fluor, no vis stn, ns.
 SH; blk, scat pyr, platy, trc gas
 LM; tan to buff, lt brn, fxln, no vis por, occ foss - well cem, dull yel fluor, no stn/odor, ns.
CHEROKEE SHALE 4734(-2511)
 SH; blk, grn, gy, platy, occ pyr, silty ip.
 LM; lt to med brn, fxln, scat dk brn oil stn, most residual stn, some poor interxn por, lt yel fluor, looks tite, no gas kick
 LM; lt brn, fxln, scat amber cht, few pcs w/med brn spotted oil stn, dull yel fluor, no odor, poor interxn por, weak cut, no apparent gas kick
 LM; lt to med brn, med xln ip, much dk brn live stn, some frags, no odor, med yel fluor
 LM; tan, dk stn, scat vug por, lt yel fluor
 SS; clr, f gr qtz, clusters, some fri, some tite, most w/lt brn oil stn, SSFO, lt yel fluor



Vis 60
Wt. 9.2
LCM 0#

conn (min/ft)
ma (A)

DST #4
Miss. Chert
4759' - 4819'
Corrected

CFS. at 4819'
MudCo. Mud
Check at 4824'
Vis 66 Wt. 9.5
WL 9.6 CI 9000
PH 10.5 LCM 0#

WOB 40K
PP 850#
SPM 55
RPM 75

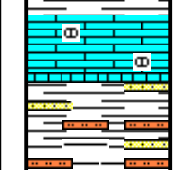
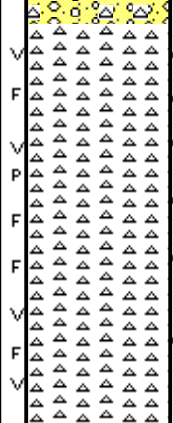
CFS. at 4855' RTD.

Vis 62
Wt. 9.2
LCM 2#

4800

4850

4900



MISS. CHERT 4790(-2567)

CHT; wh, occ transl, fresh with interbdd tripolite, occ well dev. vug por, gas bubbles, fracs w/edge stn, most w/even lt brn oil stn, SFO, faint to fair odor, med to brite yel fluor

CHT; wh, off wh, fresh w/interbdd tripolite, scat fair vug por w/SFO, occ p-p por, 60% with brite yel fluor, fair odor, some barren wh fresh cht

CHT; wh, pred fresh, spotted live oil staining, still much brite yel fluor, fracs

DST #4: Miss. Chert 4759' - 4819' Corrected Depths to Log

CHT; wh, off wh, most fresh, scat vug por w/v. spotted lt brn stn, no odor, decr. shows, some varic cht, grn, foss ip, hd

LM; med brn, some rust red - oxidized ip, occ nodular, most dense

KINDERHOOK SHALE 4841(-2618)

SH; med gy grn, med gy, silty to sandy, occ strngs of grn sltst and vf gr ss

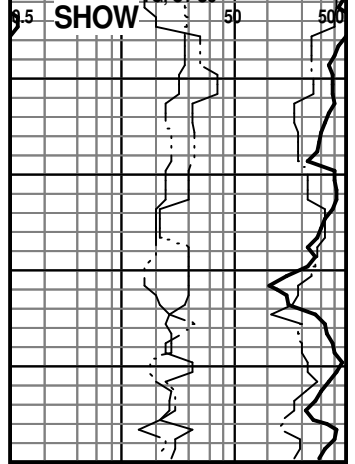
RTD. 4855' at 7:30 PM. on 7/11/14

LTD. 4850'

Halliburton ACRT, NEU/DEN w/ PE, Microlog, MRIL

NOTE: This log was shifted upward by 3' to 5' for correlation purposes with the Halliburton Logs.

MAX. 550
Unit Incr. SHOW





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54192 **DST#: 1**
Test Start: 2014.07.07 @ 21:42:30

GENERAL INFORMATION:

Formation: **Lansing "A"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 00:40:15
Time Test Ended: 06:42:15
Interval: **4214.00 ft (KB) To 4230.00 ft (KB) (TVD)**
Total Depth: 4230.00 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: 2223.00 ft (KB)
2210.00 ft (CF)
KB to GR/CF: 13.00 ft

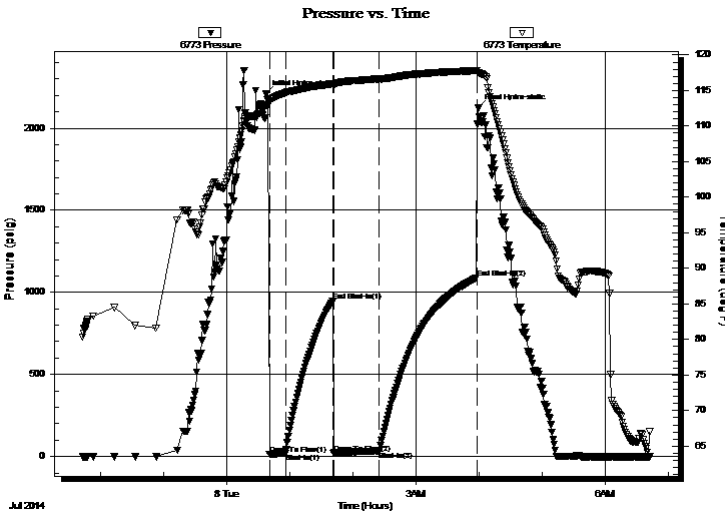
Serial #: 6773

Outside

Press@RunDepth: 34.00 psig @ 4215.00 ft (KB)
Start Date: 2014.07.07 End Date: 2014.07.08
Start Time: 21:42:35 End Time: 06:42:15
Capacity: 8000.00 psig
Last Calib.: 2014.07.08
Time On Btm: 2014.07.08 @ 00:37:15
Time Off Btm: 2014.07.08 @ 03:59:15

TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs.
IS: No blow .
FF: Strong blow . B.O.B. in 10 secs.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.44	112.86	Initial Hydro-static
3	11.61	113.58	Open To Flow (1)
19	21.47	114.66	Shut-In(1)
64	946.62	115.87	End Shut-In(1)
64	20.73	115.74	Open To Flow (2)
108	34.00	116.63	Shut-In(2)
201	1090.10	117.79	End Shut-In(2)
202	2122.47	117.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GCWM15%w 20%g 65%m	0.30
0.00	816' G.I.P. 100%g	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.
P.O. Box 838
Lawrenceville, IL. 62439
ATTN: Jon Christensen

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54192 **DST#: 1**
Test Start: 2014.07.07 @ 21:42:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GCWM15%w 20%g 65%m	0.295
0.00	816' G.I.P. 100%g	0.000

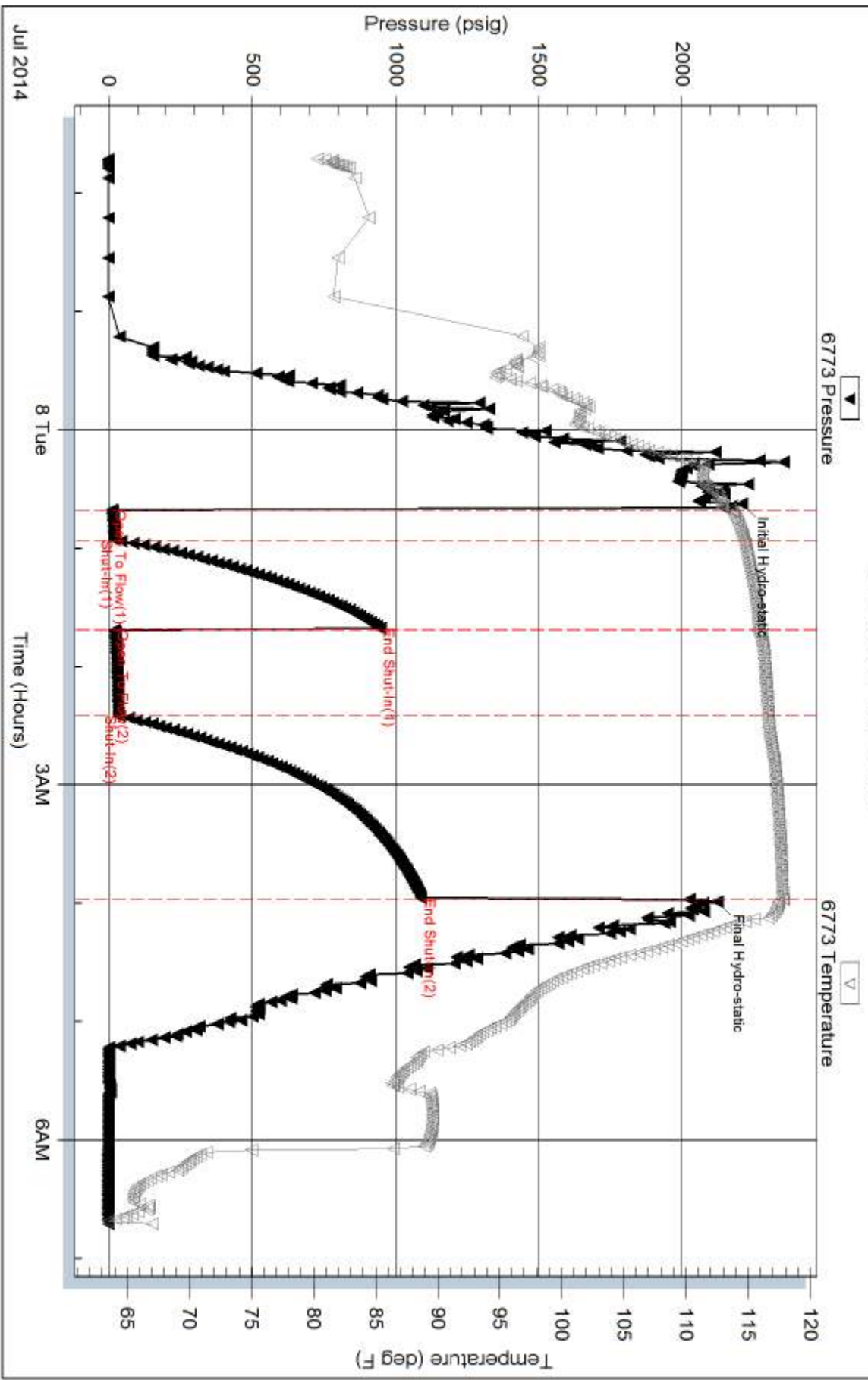
Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW is .23 @ 66 degrees = 34,000

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54193 **DST#: 2**
Test Start: 2014.07.09 @ 01:40:57

GENERAL INFORMATION:

Formation: **K.C. "H & I"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 04:13:12
Time Test Ended: 11:24:42
Interval: **4410.00 ft (KB) To 4436.00 ft (KB) (TVD)**
Total Depth: 4436.00 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: 2223.00 ft (KB)
2210.00 ft (CF)
KB to GR/CF: 13.00 ft

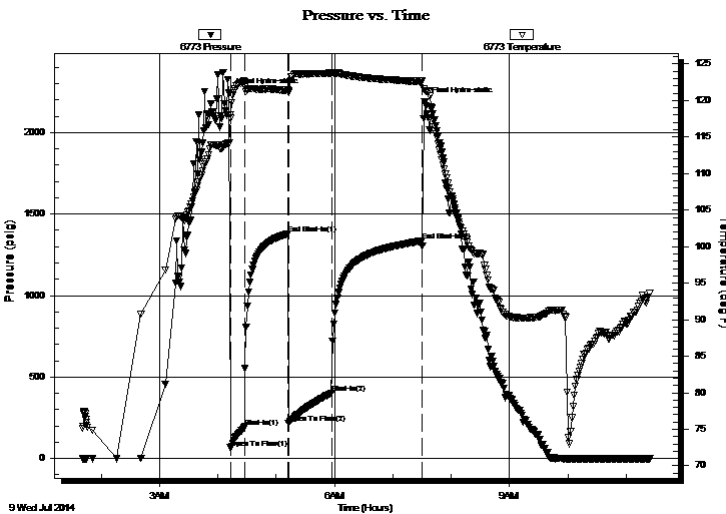
Serial #: 6773

Outside

Press@RunDepth: 401.74 psig @ 4411.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.09
Start Time: 01:41:02 End Time: 11:24:42 Time On Btm: 2014.07.09 @ 04:11:42
Time Off Btm: 2014.07.09 @ 07:32:57

TEST COMMENT: IF: Strong blow . B.O.B. in 35 secs.
IS: Fair blow . Surf., to 6". Bleed off in 5 mins.
FF: Strong blow . B.O.B. in 2 1/2 mins.
FS: Weak blow . Surf., to 3". Bleed off in 5 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.61	114.15	Initial Hydro-static
2	64.27	118.07	Open To Flow (1)
16	194.51	122.56	Shut-In(1)
61	1377.18	121.39	End Shut-In(1)
61	216.76	121.17	Open To Flow (2)
106	401.74	123.74	Shut-In(2)
199	1334.11	122.64	End Shut-In(2)
202	2186.73	121.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 10%m 90%w	0.30
240.00	WCM 5%m 95%w	1.18
30.00	WCM 2%m 98%w	0.15
96.00	WCM 2%m 98%w	1.35
128.00	WCM 2%m 98%w W/ oil trc	1.80
64.00	WCM 3%m 97%w W/ slt oil	0.90

* 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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54193 **DST#: 2**
Test Start: 2014.07.09 @ 01:40:57

Mud and Cushion Information

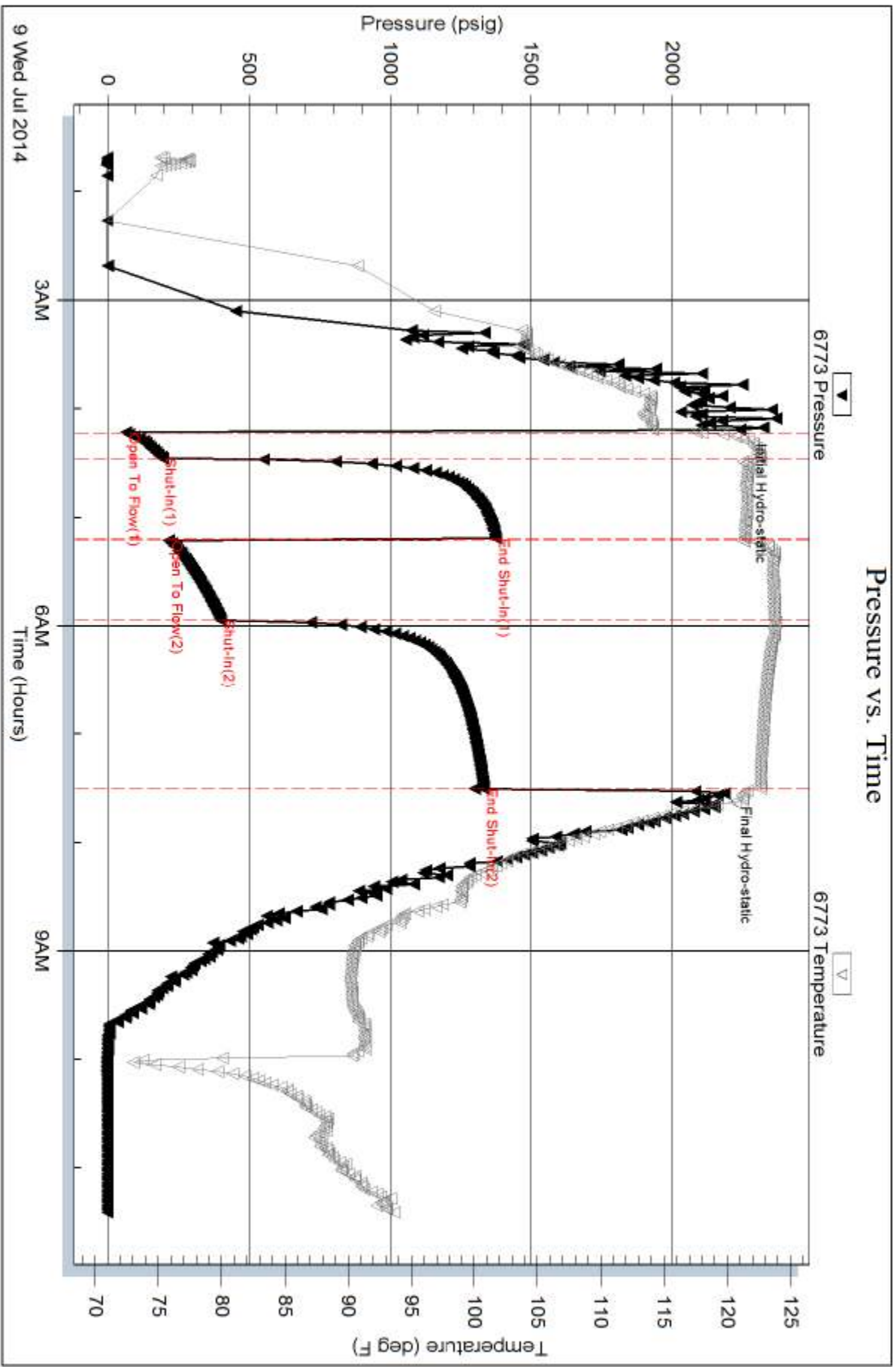
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM 10%m 90%w	0.295
240.00	WCM 5%m 95%w	1.180
30.00	WCM 2%m 98%w	0.148
96.00	WCM 2%m 98%w	1.347
128.00	WCM 2%m 98%w W/ oil trc	1.796
64.00	WCM 3%m 97%w W/ slt oil	0.898
64.00	GOMCW 5%g 5%o 5%m 85%w	0.898
64.00	GOMCW 10%o 10%m 20%g 60%w	0.898
64.00	GOMCW 5%m 15%o 35%g 45%w	0.898
20.00	GOMCW 3%m 25%o 30%w 42%g	0.281
0.00	748' G.I.P. 100%g	0.000

Total Length: 830.00 ft Total Volume: 8.639 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .12 @ 82 degrees = 59,000





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54194 **DST#: 3**
Test Start: 2014.07.09 @ 18:28:35

GENERAL INFORMATION:

Formation: **K.C. "J"**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 20:38:05
Time Test Ended: 02:27:35
Interval: **4454.00 ft (KB) To 4470.00 ft (KB) (TVD)**
Total Depth: 4470.00 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: 2223.00 ft (KB)
2210.00 ft (CF)
KB to GR/CF: 13.00 ft

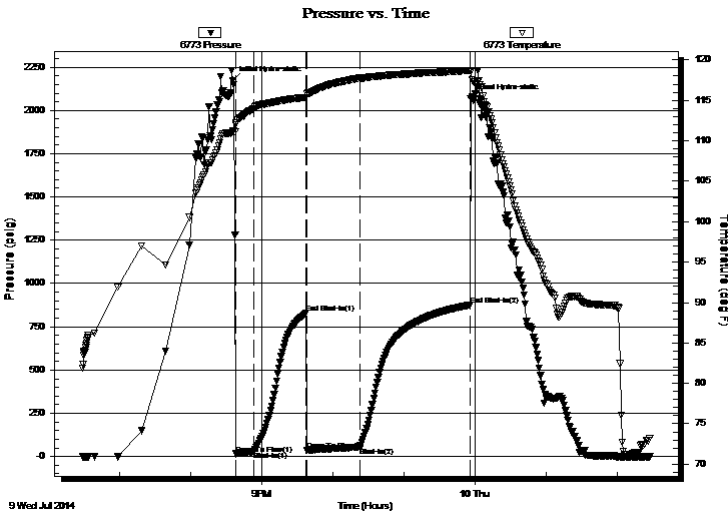
Serial #: 6773

Outside

Press@RunDepth: 54.73 psig @ 4455.00 ft (KB)
Start Date: 2014.07.09 End Date: 2014.07.10
Start Time: 18:28:40 End Time: 02:27:34
Capacity: 8000.00 psig
Last Calib.: 2014.07.10
Time On Btm: 2014.07.09 @ 20:35:20
Time Off Btm: 2014.07.09 @ 23:56:20

TEST COMMENT: IF: Strong blow . Surf., - 11".
IS: No blow . Bleed off in 3 1/2 mins.
FF: Strong blow . B.O.B. in 17 mins.
FS: Weak blow . Bleed off in 4 mins. Surf., - 1/4".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.52	111.20	Initial Hydro-static
3	15.53	111.99	Open To Flow (1)
18	30.16	113.97	Shut-In(1)
62	828.94	115.36	End Shut-In(1)
63	35.52	115.84	Open To Flow (2)
108	54.73	117.75	Shut-In(2)
201	876.49	118.70	End Shut-In(2)
201	2066.53	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 10%g 15%o 23%w 42%m	0.30
0.00	528' G.I.P. 100%g	0.00

* 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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54194 **DST#: 3**
Test Start: 2014.07.09 @ 18:28:35

Mud and Cushion Information

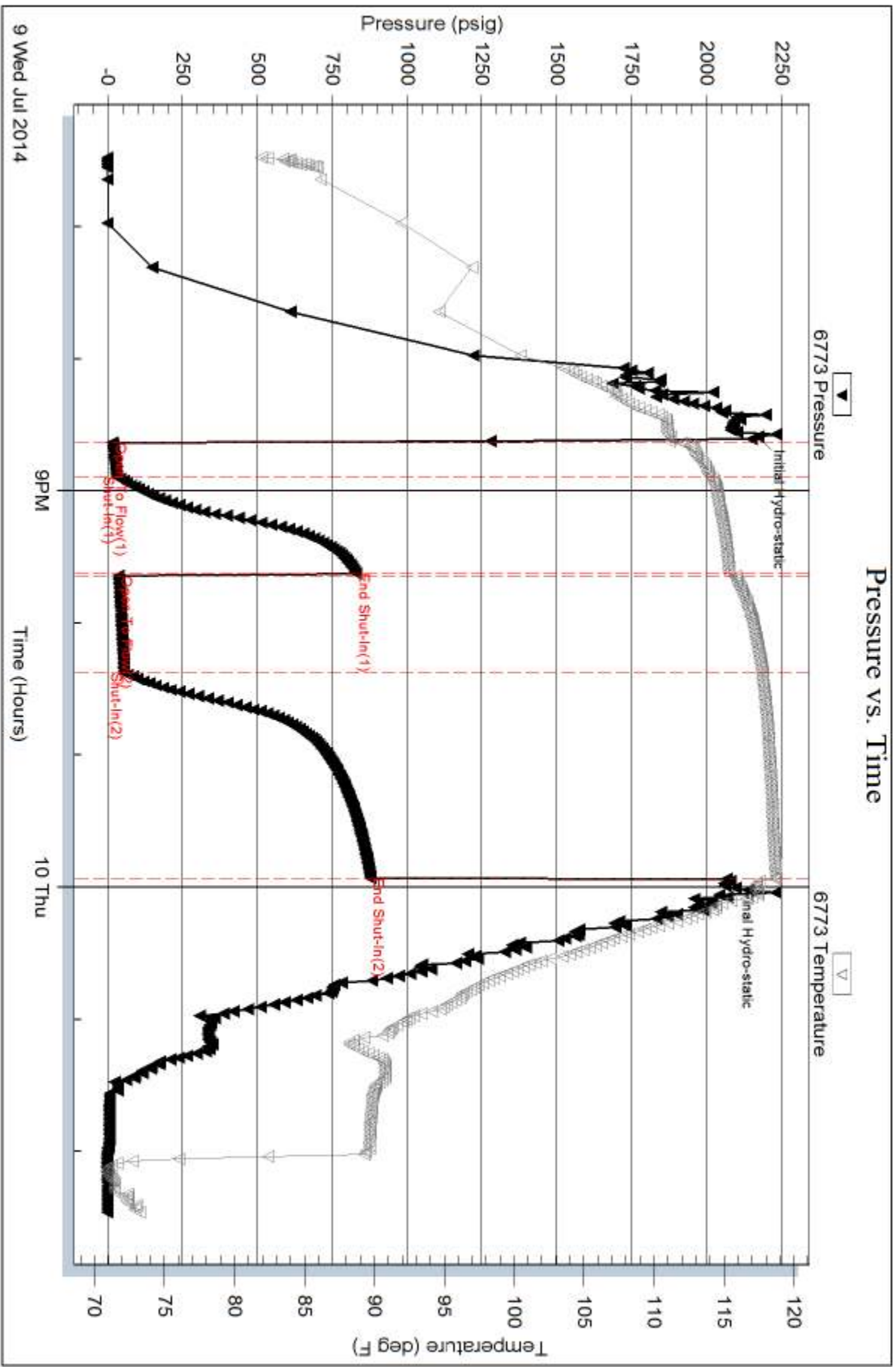
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: lb/gal	Cushion Length: ft	Water Salinity:	13000 ppm
Viscosity: 76.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 13000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOWCM 10%g 15%o 23%w 42%m	0.295
0.00	528' G.I.P. 100%g	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:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
 Job Ticket: 54195 **DST#: 4**
 Test Start: 2014.07.11 @ 06:27:28

GENERAL INFORMATION:

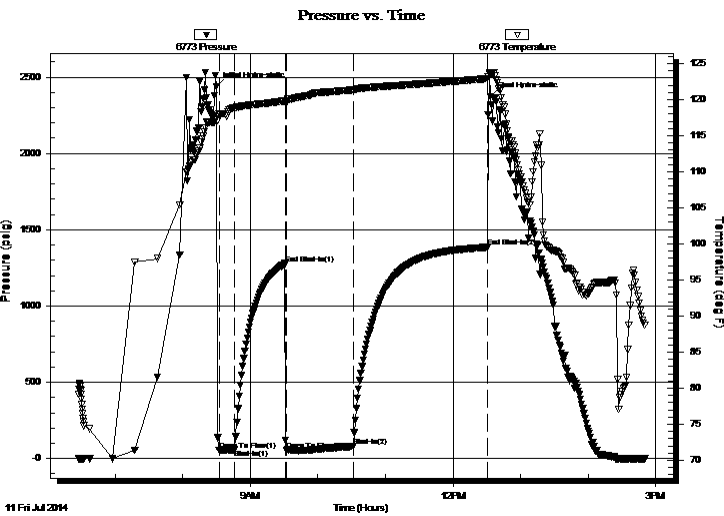
Formation: **Mississippi Chert**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 08:32:28
 Time Test Ended: 14:50:58
 Interval: **4764.00 ft (KB) To 4824.00 ft (KB) (TVD)**
 Total Depth: 4824.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2223.00 ft (KB)
 2210.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6773

Outside

Press @ Run Depth: 79.99 psig @ 4765.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.11 End Date: 2014.07.11 Last Calib.: 2014.07.11
 Start Time: 06:27:33 End Time: 14:50:57 Time On Btm: 2014.07.11 @ 08:30:13
 Time Off Btm: 2014.07.11 @ 12:33:13

TEST COMMENT: IF: Strong blow . B.O.B. in 1 min.
 IS: No blow .
 FF: Strong blow . B.O.B. in 10 secs. G.T.S. in 4 mins. Gauged gas, see gas report.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2436.73	117.39	Initial Hydro-static
3	53.26	118.06	Open To Flow (1)
16	57.50	118.87	Shut-In(1)
61	1277.86	119.83	End Shut-In(1)
63	54.93	119.71	Open To Flow (2)
121	79.99	121.33	Shut-In(2)
241	1384.91	122.90	End Shut-In(2)
243	2373.03	123.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 1%w 2%o12%g 85%m	0.30
20.00	GWCM 1%g 1%w 98%m w / trc oil	0.10
0.00	4674' G.I.P. 100%g	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	6.51
Last Gas Rate	0.13	17.00	11.75
Max. Gas Rate	0.13	17.00	11.75



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-27s-18w Kiowa Co., Ks.
Naumann #2-32
Job Ticket: 54195 **DST#: 4**
Test Start: 2014.07.11 @ 06:27:28

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	9000 ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOWCM 1%w 2%o12%g 85%m	0.295
20.00	GWCM 1%g 1%w 98%mw / trc oil	0.098
0.00	4674' G.I.P. 100%g	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: MAS/Pratt

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments: Gas to surface, gauged gas and took gas sample.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Herman L. Loeb, LLC.

32-27s-18w Kiowa Co., Ks.

P.O. Box 838
Lawrenceville, IL. 62439

Naumann #2-32

Job Ticket: 54195

DST#: 4

ATTN: Jon Christensen

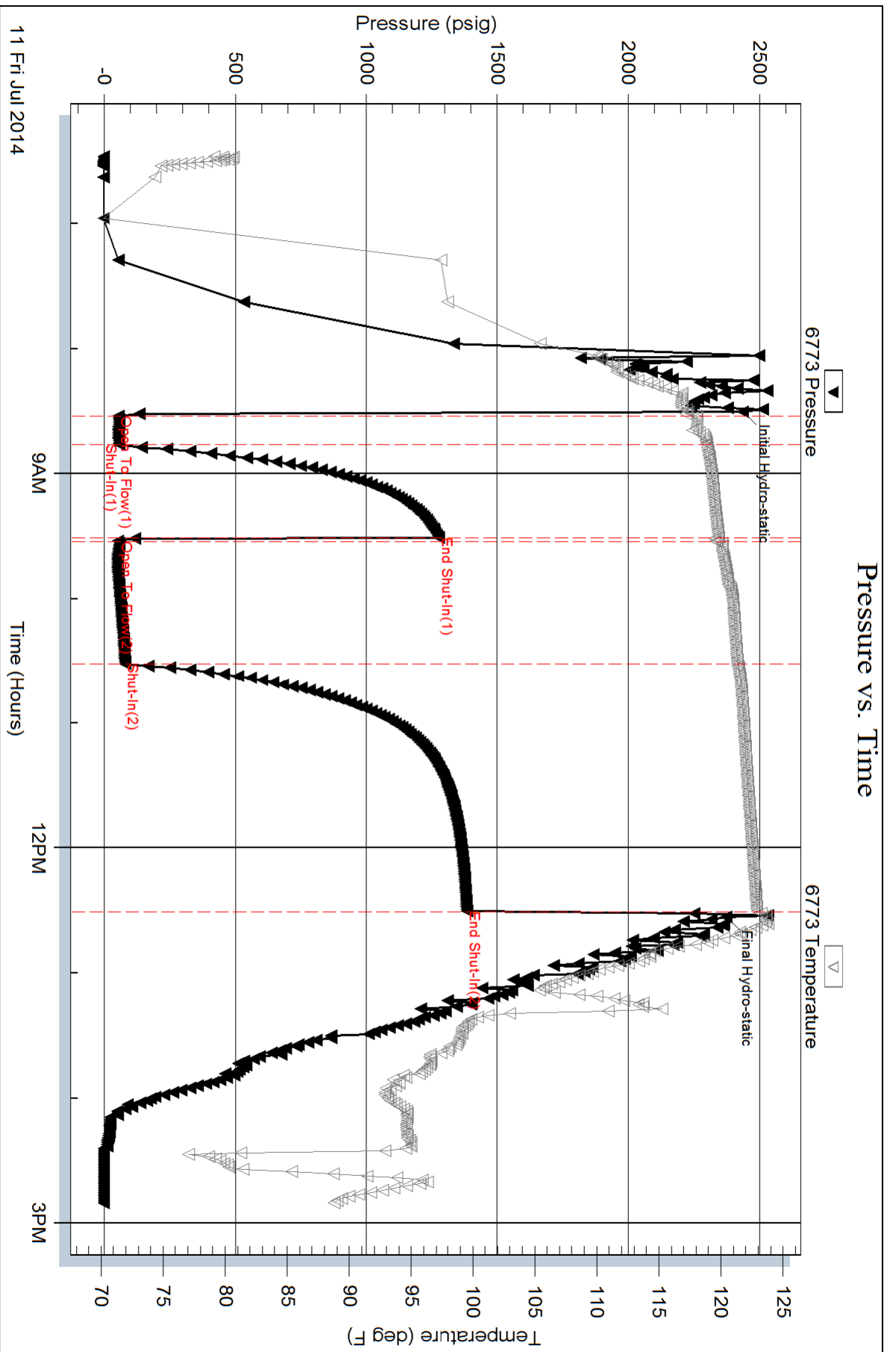
Test Start: 2014.07.11 @ 06:27:28

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	10	0.13	3.00	6.51
2	20	0.13	4.50	7.07
2	30	0.13	8.00	8.38
2	40	0.13	11.00	9.51
2	50	0.13	15.00	11.00
2	60	0.13	17.00	11.75



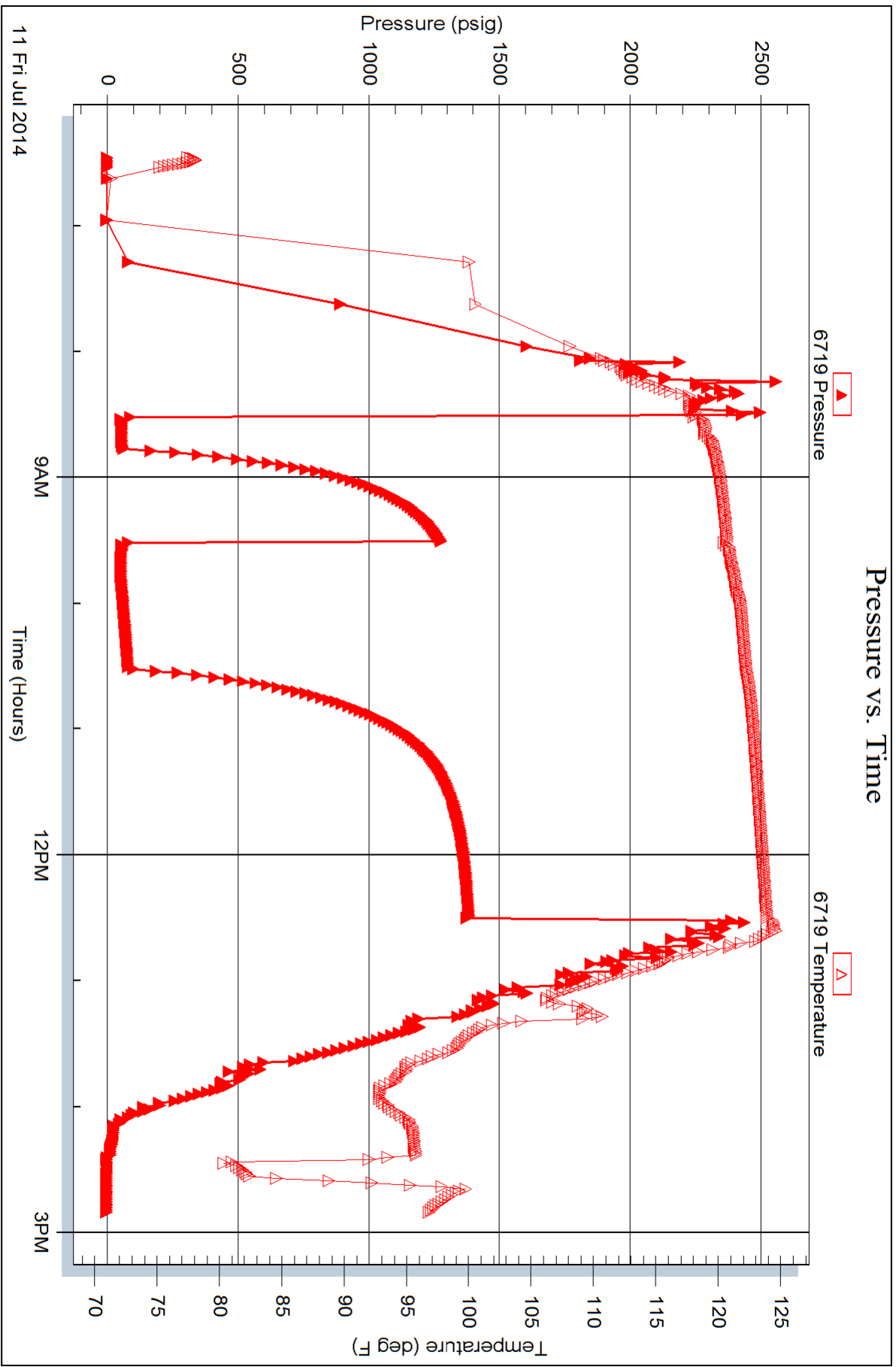
Serial #: 6719

Inside

Herrman L. Loeb, LLC.

Naumann #2-32

DST Test Number: 4





PAGE 1 of 1	CUST # 1007589	YARD # 1718	INVOICE DATE 07/08/2014
INVOICE NUMBER 91535701			

✓
J

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 O B S I T E
LEASE NAME Naumann 2-32
LOCATION
COUNTY Kiowa
STATE KS
JOB DESCRIPTION Cement-New Well Casing/Pi
JOB CONTACT

60716-7 771 Naumann 9438

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40741273	19843		Net - 30 days	08/07/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/04/2014 to 07/04/2014				
0040741273				
171810766A Cement-New Well Casing/Pi 07/04/2014 Cement 13 3/8 Conductor				
Common Cement	280.00	EA	11.68	3,270.40 T
Celloflake	70.00	EA	2.70	189.07 T
Calcium Chloride	528.00	EA	0.77	404.71 T
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.10	108.59
Heavy Equipment Mileage	70.00	MI	5.11	357.70
"Proppant & Bulk Del. Chgs., per ton mil	462.00	EA	1.61	741.97
Depth Charge: 0-500'	1.00	EA	730.00	730.00
Blending & Mixing Service Charge	280.00	BAG	1.02	286.16
"Service Supervisor, first 8 hrs on loc.	1.00	EA	127.75	127.75

PAID
51321
JUL 17 2014

SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,216.35
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	276.29
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,492.64
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 10766 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>7-4-14</u> DISTRICT <u>Pratt</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 L Loeb</u>		LEASE <u>Naumann</u> 2.32 WELL NO.							
ADDRESS		COUNTY <u>kiowa</u> STATE <u>ks</u>							
CITY STATE		SERVICE CREW <u>ED Josh Joe</u>							
AUTHORIZED BY		JOB TYPE: <u>LNW CONDUCTOR</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19899-19843</u>	<u>30 min</u>						<u>7-4-14</u>	<u>AM</u>	<u>4:30</u>
<u>19831-19862</u>	<u>30 min</u>							<u>PM</u>	<u>6:30</u>
<u>28443</u>								<u>PM</u>	<u>11:00</u>
								<u>PM</u>	<u>11:30</u>
								<u>PM</u>	<u>12:30</u>
									<u>35</u>

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100C	Common	SK	280		4,480 00
CC 102	Celloflake	lb	70		259 00
CC 109	Calcium Chloride	lb	528		554 40
E 100	Pickup mileage	mi	35		1188 75
E 101	Heavy mileage	mi	70		490 00
E 113	Bulls Delivery	TM	462		1,016 40
CE 200	Depth Charge	4hr	1		1,000 00
CE 240	Mixing Charge	S/S	280		392 00
S 003	Supervisor	EQ	1		175 00

SUB TOTAL 6,216 35

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Jel Melton THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Alan Lott
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



PAGE	CUST NO.	YARD #	INVOICE DATE
1 of 1	100756	1718	07/09/2014
INVOICE NUMBER			
91536487			

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 Naumann 2-32
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

6076 → 771 Naumann → 9438

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40741568	19843		Net - 30 days	08/08/2014
For Service Dates: 07/05/2014 to 07/05/2014				
0040741568				
171810767A Cement-New Well Casing/Pi 07/05/2014				
Cement Surface				
A-Con Blend common	200.00	EA	13.14	2,628.00 T
Common Cement	200.00	EA	11.68	2,336.00 T
Celloflake	100.00	EA	2.70	270.10 T
Calcium Chloride	940.00	EA	0.77	720.51 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	164.25	164.25
"8 5/8"" Guide Shoe (Red)"	1.00	EA	401.50	401.50
Flapper type Inst Float Valve 8 5/8"(Blu	1.00	EA	204.40	204.40
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.10	108.59
Heavy Equipment Mileage	70.00	MI	5.11	357.70
"Proppant & Bulk Del. Chgs., per ton mil	658.00	EA	1.61	1,056.75
Depth Charge; 501'-1000'	1.00	EA	876.00	876.00
Blending & Mixing Service Charge	400.00	BAG	1.02	408.80
Plug Container Util. Chg.	1.00	EA	182.50	182.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	127.75	127.75

PAID
51321
JUL 17 2014

SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,842.85
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	425.75
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,268.60
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 10767 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-5-14	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 Herman L Loeb		LEASE Naymann		2:32 WELL NO.						
ADDRESS		COUNTY Kiowa		STATE KS						
CITY		STATE		SERVICE CREW ED Garrison JOP						
AUTHORIZED BY		JOB TYPE: CNW Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19959-19943	45min						7-4-14			835
19960-21010	45min						7-5-14			1200
28443										0400
										0445
										0545
						MILES FROM STATION TO WELL	35			

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP 101	A-con Blend	SK	200		3,600 00	
CP 100C	Common Cement	SK	200		3,200 00	
CC 102	Celloflake	lb	100		370 00	
CC 109	Calcium Chloride	lb	940		987 00	
CF 105	TOP Rubber Plug	eg	1		225 00	
CF 203	85% Guide Shoe	eg	1		550 00	
CF 1453	Flapper Insert	eg	1		280 00	
E 100	Pickup mileage	mi	35		148 75	
E 101	Heavy mileage	mi	70		490 00	
E 113	Bulk Delivery	tm	658		1,447 60	
CE 201	Depth Charge	4hr	1		1,200 00	
CE 240	Mixing Charge	SK	400		560 00	
CE 504	Plug container	JOB	1		250 00	
S 003	Supervisor	eg	1		175 00	
					SUB TOTAL	9,842 85

CHEMICAL / ACID DATA:			

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

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

6076/771 Naumi (A)
9-38



PAGE 1 of 1	CUST NO 1007589	YARD # 1718	INVOICE DATE 07/16/2014
INVOICE NUMBER 91542293			

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 Naumann 2-32
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
40743826	19905		Net - 30 days	08/15/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/12/2014 to 07/12/2014				
0040743826				
171810771A Cement-New Well Casing/Pi 07/12/2014				
50/50 POZ	250.00	EA	8.47	2,117.36 T
Celloflake	63.00	EA	2.85	179.47 T
Gypsum	1,050.00	EA	0.58	606.33 T
FLA-322	105.00	EA	5.77	606.33 T
Mud Flush	1,000.00	EA	1.15	1,154.92 T
Gilsonite	1,500.00	EA	0.52	773.80 T
KCL Potassium Chloride	566.00	EA	1.15	653.68 T
Claymax KCL Substitute	5.00	EA	26.95	134.74 T
"Latch Down Plug & Baffle, 5 1/2"" (Blu	1.00	EA	307.98	307.98
"Auto Fill Float Shoe 5 1/2"" (Blue)"	1.00	EA	277.18	277.18
"Turbolizer, 5 1/2"" (Blue)"	12.00	EA	84.69	1,016.33
"5 1/2"" Basket (Blue)"	2.00	EA	223.29	446.57
"Cement Scratchers Cable Type, 5 1/2"" "	6.00	EA	57.75	346.48
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.27	114.53
Heavy Equipment Mileage	70.00	MI	5.39	377.27
"Proppant & Bulk Del. Chgs., per ton mil	368.00	EA	1.69	623.35
Depth Charge; 4001'-5000'	1.00	EA	1,940.27	1,940.27
Plug Container Util. Chg.	1.00	EA	192.49	192.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.74	134.74
Blending & Mixing Service Charge	250.00	BAG	1.08	269.48

PAID
51525
JUL 24 2014
SCAN

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,273.30
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	445.20
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,718.50
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 10771 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-12-14 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 Herman L Loeb		LEASE Naymann 2:32 WELL NO.							
ADDRESS		COUNTY Kiowa STATE Ks							
CITY STATE		SERVICE CREW JOE, MICHAEL, DALE							
AUTHORIZED BY		JOB TYPE: cnw Longstrips							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
7766 19905	45min						7-12-14		1200
70959 19918	45min					ARRIVED AT JOB		AM	1700
28443						START OPERATION		AM	2130
						FINISH OPERATION		AM	2215
						RELEASED		AM	2315
						MILES FROM STATION TO WELL			35

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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 POZ	SK	200		2,200 00
CP 104	50/50 POZ	S/S	50		550 00
CC 102	cell of flake	lb	63		233 10
CC 113	6y Psum	lb	1050		787 50
CC 129	FLA-322	lb	105		787 50
CC 201	Gilsonite	lb	1500		1,005 00
C 700	KSC1	lb	566		849 00
CF 607	Latch Down Plug	eg	1		400 00
CF 1251	Auto fill shoe	eg	1		360 00
CF 1651	Turbo	eg	12		1,320 00
CF 1901	Basket	eg	2		580 00
CF 2001	Cement Scratchers	eg	6		450 00
C 704	Claymax	gal	5		175 00
CC 151	mud flush	gal	1000		1,500 00

SUB TOTAL **KC**

CHEMICAL / ACID DATA:			

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

TOTAL

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

Customer <i>Herman LLOED</i>	Lease No.	Date <i>7-12-14</i>	
Lease <i>Ngy Mann</i>	Well # <i>2-32</i>		
Field Order # <i>10771</i>	Station <i>Pratt</i>	Casing <i>5/2</i>	Depth <i>4950</i>
		County <i>kiowa</i>	State <i>KS</i>
Type Job <i>CNW Long string</i>	Formation	Legal Description <i>32-27-18</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5/2</i>								
Depth <i>4950</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>115</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4950</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>Kevin</i>	Treater <i>Joe</i>
-------------------------	------------------------------	--------------------

Service Units	<i>77681</i>	<i>19905</i>	<i>70959</i>	<i>19918</i>	<i>28443</i>				
Driver Names	<i>Mike</i>	<i>Dale</i>			<i>Joe</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>ONLOC / safety meeting</i>
					<i>Run 116 JTS of 5/2 csg 15.5 csg</i>
					<i>Turbo on 1-2-3-5-7-9-10-11-12-17-22-27</i>
					<i>Basket on 9-21</i>
					<i>Scratcher 2</i>
<i>1700</i>					<i>Start Running csg</i>
<i>2015</i>					<i>Csg on Bottom / circ with Big</i>
<i>2130</i>					<i>Hookup to Pump TRK TO START JOB</i>
<i>2130</i>	<i>400</i>		<i>5</i>	<i>6</i>	<i>H2O spacer</i>
			<i>24</i>	<i>6</i>	<i>myd flush</i>
			<i>5</i>	<i>6</i>	<i>H2O spacer</i>
	<i>300</i>		<i>48</i>	<i>6</i>	<i>mix 200 SK 50/50 PO2</i>
			<i>0</i>	<i>0</i>	<i>Shut Down Clear Pump & Lines</i>
			<i>0</i>	<i>0</i>	<i>Release Plug</i>
<i>2149</i>	<i>200</i>		<i>0</i>	<i>6</i>	<i>Start H2O Disp.</i>
			<i>73</i>	<i>6</i>	<i>LIFT PSF</i>
	<i>700</i>		<i>105</i>	<i>4.5</i>	<i>Slow Rate</i>
<i>2215</i>	<i>1500</i>		<i>115</i>	<i>0</i>	<i>Plug Down</i>
					<i>Plug Bit MH</i>
					<i>JOB COMPLETE Thank you JOE</i>