



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1227553
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: _____

1227553

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Joy Station #1-15
Location: 660' FSL & 990' FWL, Sec. 15-T28S-R19W, Kiowa Co., KS.
Licence Number: 15-097-218-00-00 Region: Wildcat
Spud Date: 9/12/2014 Drilling Completed: 9/19/2014
Surface Coordinates: 660' FSL & 990' FWL, Sec. 15-T28S-R19W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2274' K.B. Elevation (ft): 2287'
Logged Interval (ft): 3950' To: 5000' Total Depth (ft): 5000'
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3486'; Chemical Gel 3486' to 5000'

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(Kansas City 'H' zone) 4457' - 4488'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 0.25" Blow, FFP No Blow, no Blowback on SI's; REC: 15' Heavy Drlg. Mud w/good gas/oil odor; IFP 18-22#, ISIP 1411#, FFP 21-26#, FSIP 1358#, IHP 2171#, FHP 2135#, BHT 114 Deg. F.

DST #2(Cherokee Lmst.) 4838' - 4870'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak 0.5" Blow, FFP Weak 1" Blow, no Blowback on SI's; REC: 80' Gas in Pipe, 10' Drlg. Mud, no oil, no water; IFP 17-20#, ISIP 71#, FFP 18-19#, FSIP 61#, IHP 2299#, FHP 2206#, BHT 118 Deg. F.

DST #3(Miss. Chert) 4886' - 4930'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/1 Min., Gas to Surface in 8 Min., FFP Gas to Surface Gauged Max. 232 MCFG(20# on 0.5" Choke), No Blowback on SI's; REC: 70' GCM(9%G, 91%M), 120' GCWM(16%G, 26%W, 58%M), 120' MW(55%W, 45%M), CI 19,000, Mud 5000; IFP 126-101#, ISIP 1419#, FFP 86-126#, FSIP 1410#, IHP 2391#, FHP 2364#, BHT 123 Deg. F.

Comments

9/12/14 MIRU Sterling Drilling Co. Rig #5, Spud at 5:15 PM. , 9/13/14 TD. 650' - Running Surface Casing; 9/14/14 Drilling at 1890'; 9/15/14 Drilling at 3600'; 9/16/14 Drilling at 4392'; 9/17/14 TD. 4528' - CFS.; 9/18/14 Drilling at 4852'; 9/19/14 TD. 4932' - TIH for DST #3; 9/20/14 RTD. 5000', LTD. 4998' - Logging - P & A.

Set new 8 5/8"(23#) Surface Casing at 645' KB. with 400 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 8:15 AM. on 9/13/14.

Surveys: 0.50 Deg. at 650'(Surface Casing); 0.50 Deg. at 4322'(Bit Trip); 0.75 Deg. at 4489'(DST #1); 1.25 Deg. at 4872'(DST #2); 1.25 Deg. at 5000' RTD.


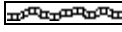
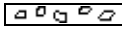
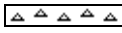
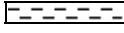







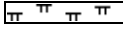

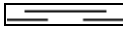
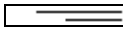
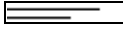



Pipe Strap at 4322'(Bit Trip): Strap 0.38' Short to the Board, no correction made to the Board.

After consideration of the Halliburton Logs, DST data and sample shows, the operator elected to Plug and Abandon the Joy Station #1-15 at RTD. 5000' on 9/20/2014.








































































LOG TOPS: Chase 2527(-240), Stotler Lmst. 3466(-1179), Heebner Shale 4130(-1843), Toronto 4155(-1868), Brown Lmst. 4297(-2010), Lansing 'A' 4310(-2023), Lansing/KC 'H' 4476(-2189), Stark Shale 4620(-2333), Hertha 4666(-2379), BKC 4702(-2415), Marmaton 4750(-2463), Cherokee Shale 4840(-2553), Conglomerate 4910(-2623), Miss. Chert 4920(-2633).

NOTE: This log was shifted upward by 1' to 2' 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
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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  Wackest
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OTHER SYMBOLS

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

[V] Vuggy

- SORTING**
 [W] Well
 [M] Moderate
 [P] Poor

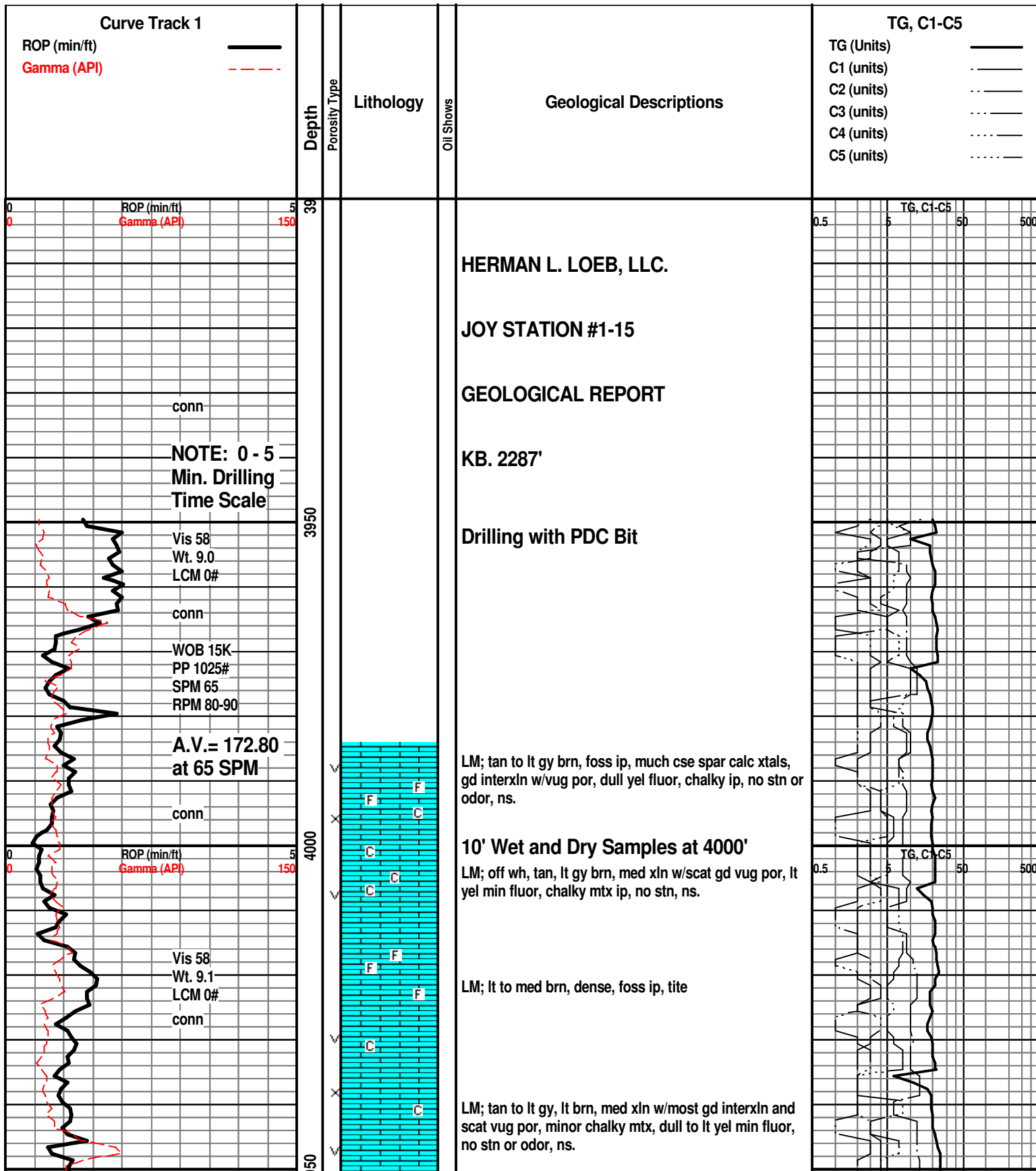
- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

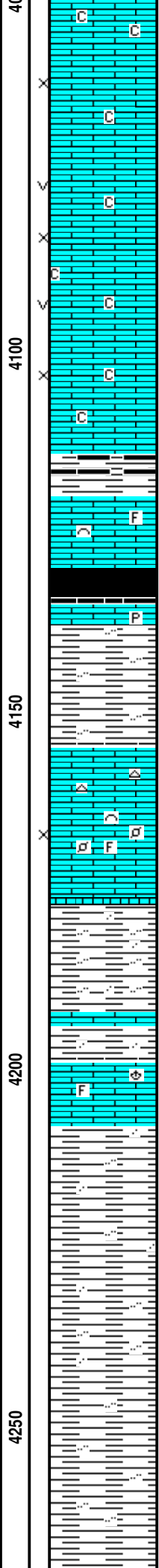
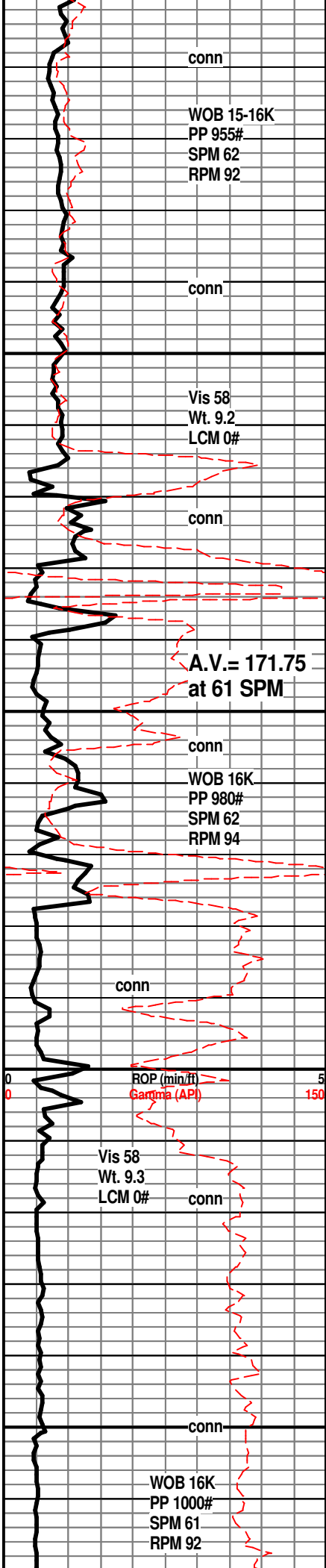
- [S] Spotted
 [Q] Ques
 [D] Dead

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

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

- OIL SHOW**
 [E] Even





LM; tan, lt brn, lt gy brn, med xln, gran, gd interxln w/scat vug por, minor chalky mtx, rare foss mat, dull yel fluor, ns.

LM; tan, buff, off wh, med xln, fair to gd interxln w/occ vug por, chalky w/incr. chalky mtx, scat opaque spar calc xtals, dull yel fluor, no stn, ns.

SH; dk gy, blk, platy

LM; med gy brn, med brn, blocky, rare foss, no vis por, no fluor, ns.

HEEBNER SHALE 4130(-1843)
SH; blk, carb ip, platy
LM; med to dk brn, hd, pyr ip.

SH; lt gy, gy grn, silty ip.

TORONTO 4155(-1868)
LM; off wh, wh, fxl, some dense micrite, occ wh to off wh cht, no vis por, ns.

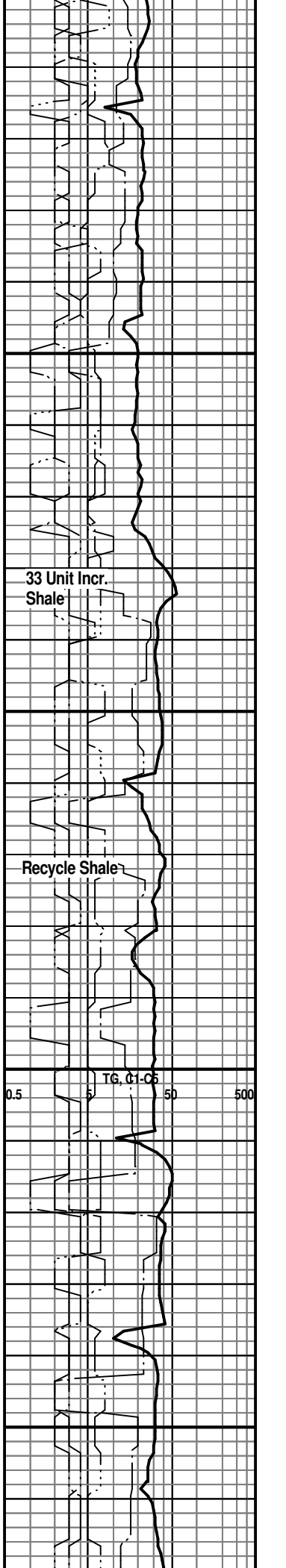
LM; off wh, buff, tan, foss w/scat pellets and hash, gd interpart por, minor chalky mtx, dull yel min fluor, no stn, ns.

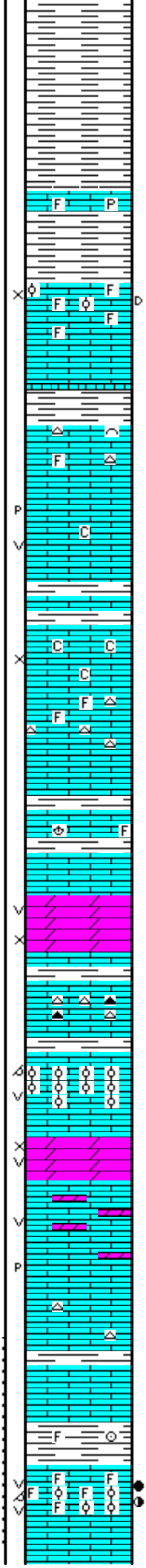
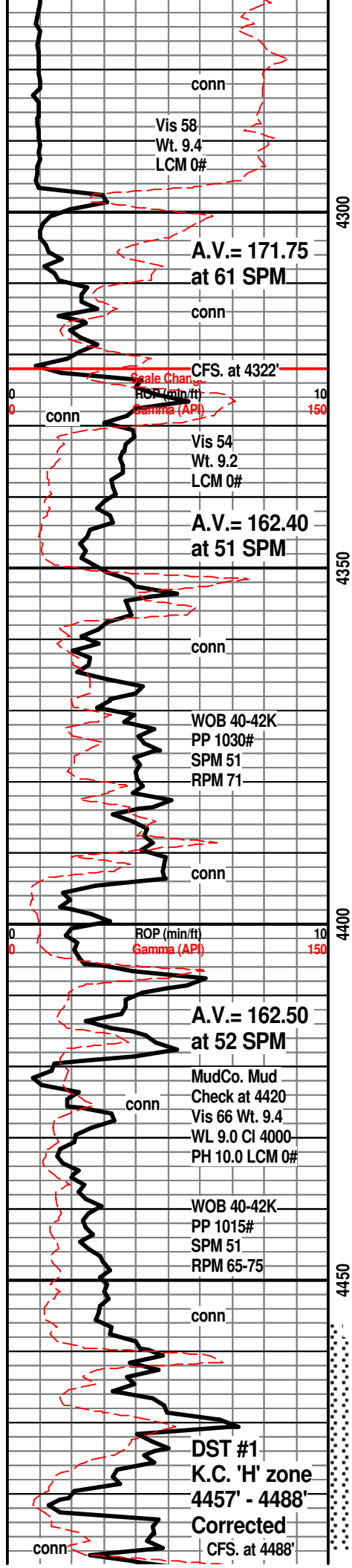
DOUGLAS SHALE 4177(-1890)
SH; grn, gy grn, silty to occ sandy

LM; med to dk brn, dense, micritic, rare foss, tite

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

SH; lt to med gy, platy, occ silty





SH; med gy, platy to flakey, smooth

BROWN LMST. 4297(-2010)
LM; med brn, dense, rare foss, pyr ip, tite

LANSING 'A' 4310(-2023)
LM; off wh, buff, tan, foss ip, scat poor to fair interpart por, trc oolitic lmst, lt yel min fluor, few pcs w/blk tar/gilsonite, no live oil shows, no apparent gas kick

BIT TRIP AT 4322'
Drilling with Button Bit
LANSING 'B' 4330(-2043)
LM; off wh, tan, buff, dense, blocky, well cem foss, no vis por, dull yel min fluor, cherty, ns.
LM: lt gy, off wh, buff, fxln, fairly well dev. p-p and vug por, rare lt yel fluor, minor chalky mtx, no vis stn, no odor, no gas kick, barren
LM; med/dk brn, fxln, dense
LM; tan to cream, off wh, fxln, minor soft chalky mtx, fair interxln por, spotty lt yel fluor, no vis oil stn, no odor, no sample shows
LM; lt to med brn, foss ip, well cem, cherty ip, no vis por, dull yel min fluor, ns.
LM; med gy brn, foss ip, most dense

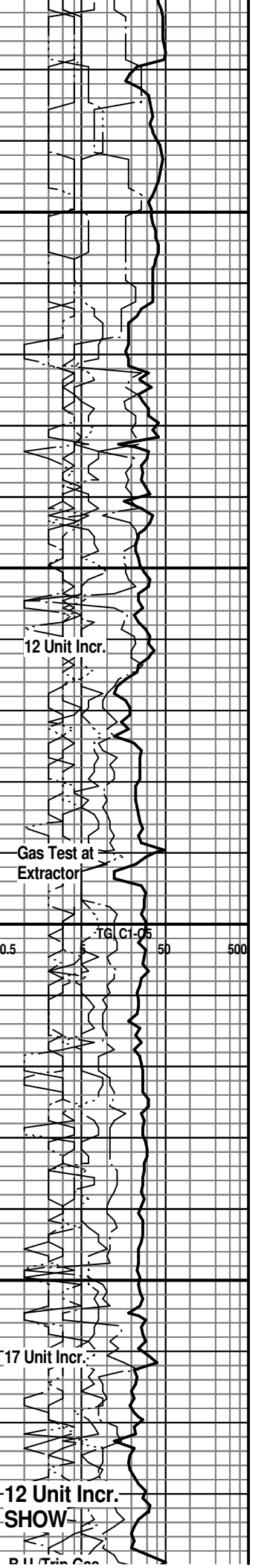
DOL; tan, buff, sucrosic, fair interxln w/trc vug por, lt yel min fluor, no stn or odor, ns.

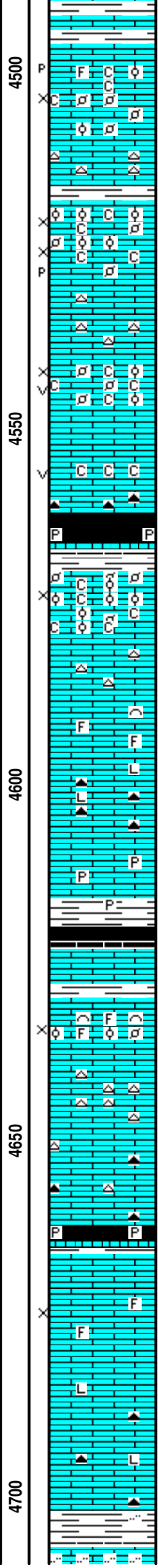
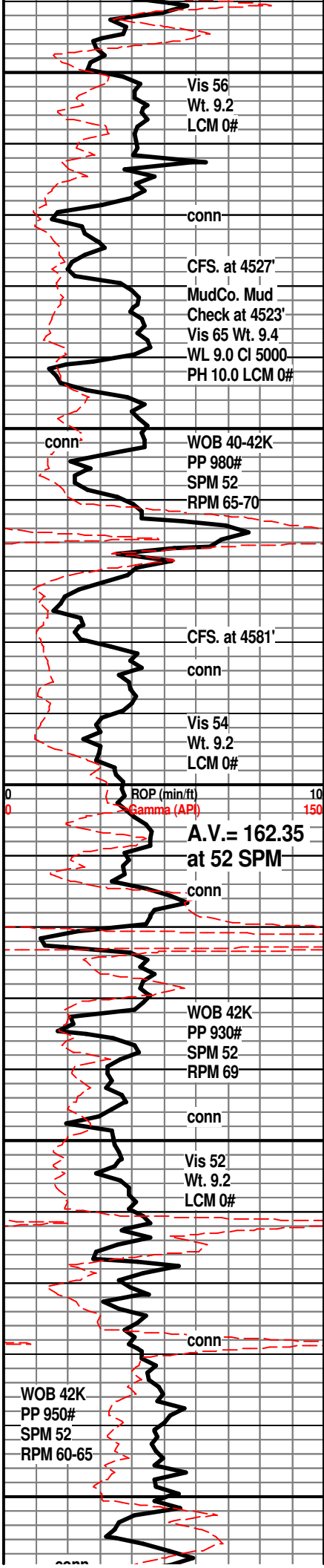
LM; lt to med brn, hd, cherty, no vis por, ns.

LANSING 'G' POR. 4419(-2132)
LM; lt to med brn, oolitic, med to lrg molds - v. gd oomoldic w/vug por, med yel min fluor, no vis stn, brittle ip, no gas kick, barren
DOL; lt brn, sucrosic, fair to gd interln por, rare small vug por, scat spar calc xtals, lt yel min fluor, no stn or odor, no gas kick, ns.
LM; tan to lt brn, med xln, some gran text, scat fair p-p and vug por, interbdd sucrosic text dolomitic lmst, lt yel fluor, no stn, ns.
LM; lt to med gy, hd, micritic, tite

SH; med gy, platy, foss ip.

LANSING/K.C. 'H' 4476(-2189)
LM; lt brn, foss - partly oolitic, scat well dev. vug por w/SFO, spotted to even lt/med brn oil stn, few gas bubbles, faint/fair odor, med yel fluor, some barren tan oomoldic lmst, gd cut, approx. 15% - 20% of zone with oil stn





DST #1: K.C. 'H' zone 4457' - 4488'
Corrected Depths to Log
LM; tan to buff, off wh, foss w/abnt rnd pellets and ooids, some dk pellets, minor chalky mtx, trc poor interpart/ p-p por, lt yel min fluor, no vis stn, quest. odor, no gas kick

LM; lt brn, blocky - micritic, scat gy/tan cht, tite

KANSAS CITY 'I' 4518(-2231)
LM; lt brn, tan, foss - partly oolitic, scat pellets/ooids, fair interpart w/scat p-p por, chalky mtx, lt yel fluor, no vis stn, no odor, no gas kick, barren

LM; lt brn, micritic, dense, occ gy/tan cht

LM; tan to cream, off wh, foss w/scat pellets/small ooids, chalky mtx, fair interpart w/occ vug por, lt yel min fluor, no stn, ns.

LM; tan, lt brn, fxln w/some well dev. vup por, minor soft chalky mtx, dull yel min fluor, no stn or odor, no gas kick

SH; dk gy - blk, platy, occ pyr

KANSAS CITY 'J' 4570(-2283)
LM; tan to lt brn, foss - oolitic ip, fair interpart por, much soft chalk and chalky mtx, scat lt yel fluor, no stn or odor, no gas kick, barren

LM; tan to lt brn, fxln, scat well cem foss, occ cherty, no fluor, no stn or odor, ns.

LM; med brn, hd, litho, interbdd brn to smoky cht, tite

LM; med brn, hd, blocky, scat pyr, tite

STARK SHALE 4620(-2333)
SH; blk, carb, blocky, trc gas

SWOPE 4630(-2343)
LM; tan to buff, cream, foss to med xln, soft, scat gd interpart/interxln por, med yel fluor, no vis stn, no odor, no vis gas bubbles, ns.

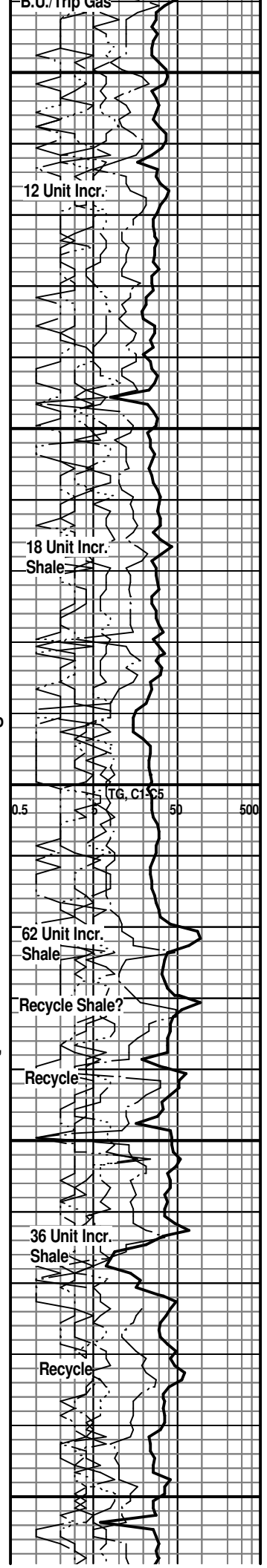
LM; lt to med brn, blocky, hd, abnt gy/dove gy to occ smoky cht, no vis por, ns.

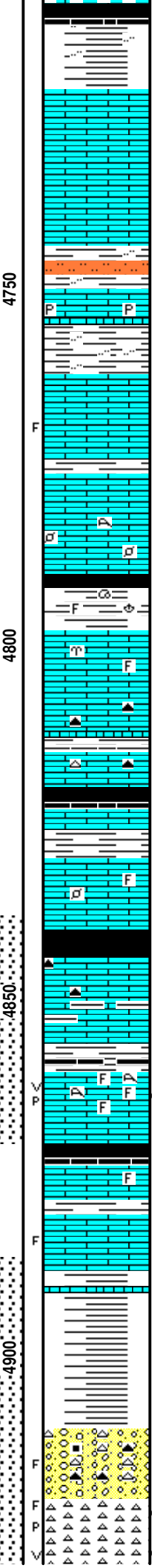
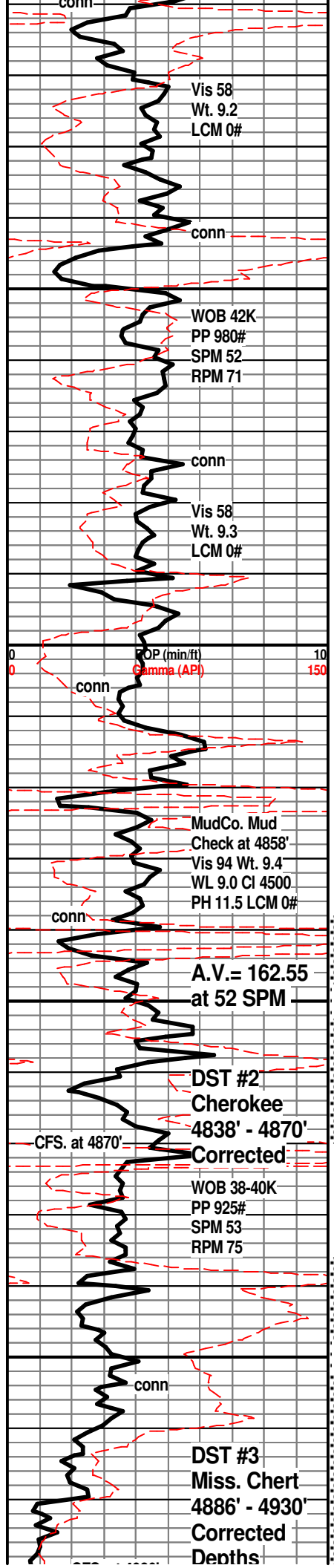
SH; blk, platy, carb ip, scat pyr

HERTHA 4666(-2379)
LM; tan to lt brn, buff, fxln w/scat foss mat, trc poor interxln/interpart por, scat lt yel fluor, no vis stn, no odor, ns.

LM; med to dk brn, hd, litho, occ brn to smoky cht, tite

BASE KANSAS CITY 4702(-2415)
LM; lt to med brn, gritty text, tite





LM; lt to med brn, gritty text, tile

SH; varic, grn, rust red/brn, dk gy - blk, silty ip

PLEASANTON 4722(-2435)

LM; lt gy, tan, hd, blocky, most micritic, no vis por, no fluor, ns.

LM; off wh, buff, rare tan, most dense - blocky, no vis por, no fluor, ns.

SH; grn, silty, interbdd sltst.

MARMATON 4750(-2463)

LM; lt brn, dense, scat pyr, tite

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

LM; tan to cream, buff, fxln w/scat opaque spar calc xtals, poss frags, lt yel min fluor, no stn or odor, no gas kick

LM; off wh, tan, cream, foss w/scat coral, occ small pellets, well cem, spar calc, lt/med yel min fluor, no stn or odor, ns.

SH; varic, blk, grn, rust red, brn, foss ip.

PAWNEE 4798(-2511)

LM; lt brn, tan, foss ip - well cem, most dense micrite, no vis por, no fluor, occ amber to gy foss cht, ns.

LM; lt brn, hd, cherty ip, tite

SH; blk, carb ip, trc gas

LM; lt to dk brn, scat foss mat, most well cem, blocky, no vis por, no fluor, ns.

CHEROKEE SHALE 4840(-2553)

SH; blk, carb, blocky, trc gas

LM; lt to med brn, most dense, blocky, scat amber cht, no vis por, argil lmst interbdd, ns.

SH; med gy, gy grn, trc blk, firm

LM; lt/med brn, foss w/scat corals/foss hash, much even med brn oil stn, med/brite yel fluor, poor to fair p-p w/scat vug por, gd odor, SSFO, few gas bubbles, fair to gd cut

DST #2: Cherokee Lm. 4838' - 4870'

LM; off wh, buff, foss-well cem, no vis por, ns.

LM; off wh, tan, fxln w/scat spar calc, poss frags, no vis por, lt yel min fluor, few pcs w/blk tar/gils, no live shows

SH; varic, maroon, grn, yel, platy, interbdd strngs. of hd lmy sh

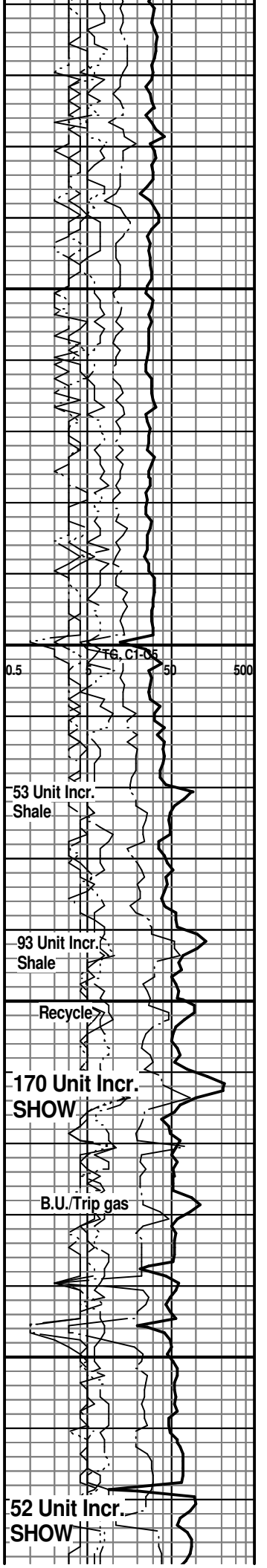
SH; varic, platy to flakey

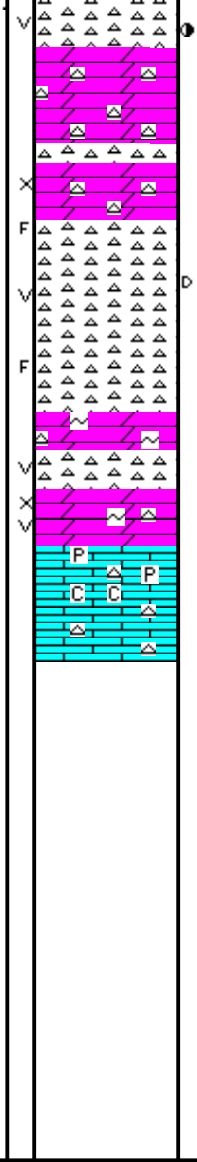
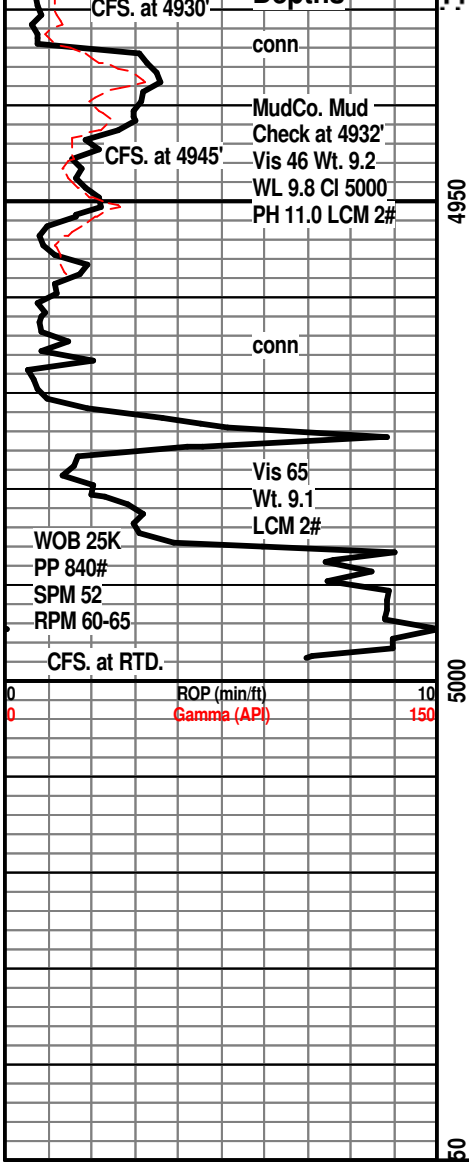
CONGLOMERATE 4910(-2623)

CONGL. CHT; varic, brn, org, yel, wh, most fresh - sharp, lt yel fluor, frags

MISS. CHERT 4920(-2633)

CHT; wh, opaque, fresh and tripolite, gd p-p and vug por, gd gas odor/strong odor in 40" sample, 40%+ w/brite yel fluor, gas bubbles, spotted/rare even lt brn





stn, Trc. FO., fair/gd cut

DST #3: Miss. Chert 4886' - 4930'
 DOL; lt gy, off wh, pale grn, sucrosic, hd, cherty, dull yel min fluor, no stn or odor, tite

CHT/CHTY DOL; wh, off wh, poor interxn por, lt yel min fluor, no stn or odor, ns.

CHT; lt gy, off wh, porc, most fresh, occ pyr, frags w/rare vug por, dull yel to no fluor, rare pcs w/dk edge stn on frags, no odor, no gas kick

DOL; lt brn, dense, sucrosic, glau ip, tite, brite yel min fluor, no stn

DOL; tan, buff, sucrosic, gd interxn w/vug por, med/brite yel min fluor, no stn or odor, ns.

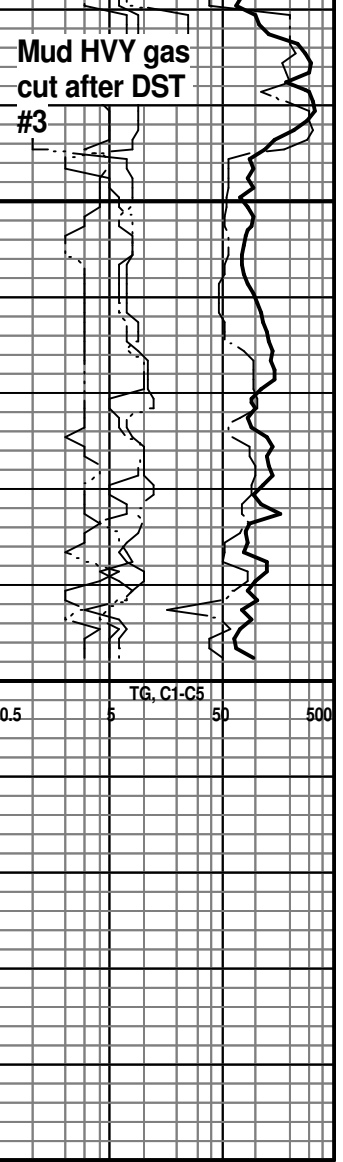
LM; off wh, buff, cream, med xln, partly chalky, most dense, scat pyr, interbdd wh porc cht, no vis por, no fluor, ns.

RTD. 5000' at 10:15 PM. 9/19/14

LTD. 4998'

Halliburton "Triple Combo" ACRT, NEU/DEN + PE, Microlog

NOTE: This log was shifted upward by 1' to 2' for correlation purposes with the Halliburton Logs.





PAGE	CUST N°	YARD #	INVOICE DATE
1 of 1	1007589	1718	09/16/2014
INVOICE NUMBER			
91595457			

8

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** Joy Station 1-15
 O **LOCATION**
 B **COUNTY** Kiowa
 S **STATE** KS
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi
 T **JOB CONTACT**
 E

6076 JoyStat 1 6438

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40765857	20920		Net - 30 days	10/16/2014

For Service Dates: 09/13/2014 to 09/13/2014

0040765857

171811244A Cement-New Well Casing/Pi 09/13/2014
 Cement 8 5/8" Surface

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
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
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	204.40	204.40
"8 5/8"" Guide Shoe (Red)"	1.00	EA	401.50	401.50
"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
53160
SEP 25 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

104076585
FIELD SERVICE TICKET
1718 11244 A

DATE _____ TICKET NO. _____

DATE OF JOB: 09-13-14		DISTRICT: PRATT KS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:			
CUSTOMER: HERMAN LOEB LLC				LEASE: JOY STATION 1-15						WELL NO.:	
ADDRESS:				COUNTY: KIOWA				STATE: KS			
CITY:				STATE:				SERVICE CREW: Sullivan, Egan, Brady,			
AUTHORIZED BY:				JOB TYPE: CDW 8 3/4 Service							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME	
33708-2090	35						9-13-14			12:30	
70959-19918	35									3:00	
37900										7:40	
										8:15	
										9:00	
						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: Alan Lofth
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-COD Blend cmt	SK	200		3,600.00
CP 100 C	Common cmt	SK	200		3,200.00
CC 102	CellFAKE	lb	100		370.00
CC 109	Calcium chloride	lb	940		987.00
CK 105	TOP Rubber Plug 8 5/8	SA	1		225.00
CK 1453	Insert float	SA	1		280.00
CF 203	Guide Shoe	SA	1		550.00
E 100	pickup md	mi	35		148.75
E 101	Heavy Spnt	mi	20		490.00
E 113	Bulk/Adm	TM	658		1,447.60
CE 201	Depth chg	SA	1		1,200.00
CE 240	Blending - mixing	SK	400		560.00
CE 504	Plug Containe Hstle	SA	1		250.00
S 003	Screws Superior	SA	1		175.00

SUB TOTAL 69 9,842.85

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

Customer <i>HERMAN Koeb LLC</i>	Lease No.	Date <i>09-13-14</i>	
Lease <i>JOY-STATION</i>	Well # <i>1-15</i>		
Field Order # <i>11244</i>	Station <i>PRA-H</i>	Casing <i>8 5/8</i>	Depth <i>645'</i>
Type Job <i>CNW 8 5/8 surface</i>		Formation	Legal Description <i>13-25-19</i>
		County <i>KIOWA</i>	State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>				Pre Pad	Max		5 Min.
Depth <i>645</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>38</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection <i>P.C</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth <i>603</i>	Packer Depth	From	To				

Customer Representative	Station Manager <i>DAVE Scott</i>	Treater <i>Robert Sullivan</i>
-------------------------	--------------------------------------	-----------------------------------

Service Units	<i>37900</i>	<i>33708</i>	<i>20970</i>	<i>70959</i>	<i>1994</i>				
Driver Names	<i>Sullivan</i>	<i>Eggins</i>		<i>BEAchy</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:00</i>					<i>on loc</i>
					<i>Run 8 5/8 Surface</i>
<i>7:20</i>					<i>CASING ON BOTTOM</i>
<i>7:30</i>					<i>Hook by circ</i>
<i>7:40</i>			<i>3</i>	<i>3.5</i>	<i>1st SPADAL</i>
			<i>86</i>	<i>4.5</i>	<i>mix A-CON Blend cont 200sk 3%cc</i>
			<i>43</i>		<i>mix common cont 200sk 2%cc 1/4" IF</i>
					<i>cont mixed</i>
					<i>Polys Play</i>
				<i>3.5</i>	<i>1st Drop</i>
<i>8:15</i>	<i>300</i>		<i>38</i>		<i>Play down</i>
					<i>3 BBL cont PIT</i>
					<i>JOB complete</i>
					<i>THANK YOU</i>



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	09/23/2014
INVOICE NUMBER			
91601882			

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 Joy Station 1-15
 B LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 R

6076 JoyStat 1 6438

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40768351	19905		Net - 30 days	10/23/2014
For Service Dates: 09/20/2014 to 09/20/2014				
0040768351				
171811145A Cement-New Well Casing/Pi 09/20/2014				
Cement P.T.A.				
60740 POZ. GEL TO: SEND OTHER CORRESPONDENCE TO:				
		QTY	U of M	INVOICE AMOUNT
		200.00	EA	1,848.00
		344.00	EA	66.22
		35.00	MI	114.54
		70.00	MI	377.30
		301.00	EA	509.89
		1.00	EA	1,155.00
		200.00	BAG	215.60
		1.00	EA	134.75
PLEASE REMIT TO: SEND OTHER CORRESPONDENCE TO:				
BASIC ENERGY SERVICES, LP		BASIC ENERGY SERVICES, LP		SUB TOTAL
PO BOX 841903		801 CHERRY ST, STE 2100		TAX
DALLAS, TX 75284-1903		FORT WORTH, TX 76102		INVOICE TOTAL
				4,421.30
				136.87
				4,558.17



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

15-28-19

C.C. 16 351
FIELD SERVICE TICKET

1718 11145 A

DATE _____ TICKET NO. _____

DATE OF JOB 9-20-14	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 JOY STATION		1-15 WELL NO.				
ADDRESS	COUNTY Kiowa		STATE KS				
CITY	STATE		SERVICE CREW Mike McGowan Aaron Beachy Joe				
AUTHORIZED BY			JOB TYPE: <u>CNW PTA</u>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>9-20-14</u> DATE AM TIME <u>12:50</u>	
7744-19415	1:20					ARRIVED AT JOB AM PM <u>1:50</u>	
19831 19860	1:20					START OPERATION AM PM <u>1:40</u>	
28443						FINISH OPERATION AM PM <u>1:00</u>	
						RELEASED AM PM <u>1:00</u>	
						MILES FROM STATION TO WELL <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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 Poz	SK	200		2,400.00
CL 200	Cement Gel	lb	344		86.00
E 100	Pickup Mileage	mi	35		148.75
E 101	Heavy Mileage	mi	70		490.00
E 113	Bulk Delivery	Tm	301		602.20
CF 202	Depth Charge	4hr	1		1,500.00
CF 240	Mixing Charge	SK	200		280.00
S 003	Supervisor	04	1		175.00

SUB TOTAL 4,421.30

CHEMICAL / ACID DATA:	

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

SERVICE REPRESENTATIVE _____
FIELD SERVICE ORDER NO. _____

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

© 2000 UTHO - Dallas, TX

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Herman L LOEB LLC	Lease No.	Date 9-20-14
Lease JAY STATION	Well # 1-15	
Field Order # 11145	Station Pratt	Casing DP
Type Job CNW	Formation PTA	Depth 1230
		County Sioux
		State KS
		Legal Description 15-28-19

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

Customer Representative	Station Manager Kevin	Treater JOE			
Service Units	77686	19905	19831	19860	28443
Driver Names	Mike Miron	Ann Bregby		JOE	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1500					ON LOC / safety meeting
					Plug 1 set at 1230'
1640	100		20	5	H2O spacer
			12	5	Mix 50 slt 60/40 P02 @ 13.7#
1644	100		5	5	H2O spacer
1710	100		10	5	Plug 2 set @ 670'
			12	5	H2O spacer
1717	100		2	5	Mix 50 slt 60/40 P02 @ 13.7#
					H2O spacer
1725					Plug 3 set @ 300'
1725	100		5	5	H2O spacer
			7	5	Mix 30 slt of 60/40 P02 13.7#
1730	100		1	5	H2O spacer
1750	100		5	3	Plug 4 set @ 60'
					Mix 20 slt 60/40 P02 @ 13.7#
1800					Plug BH 5 min
					JOB complete
					Thank you JOE



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

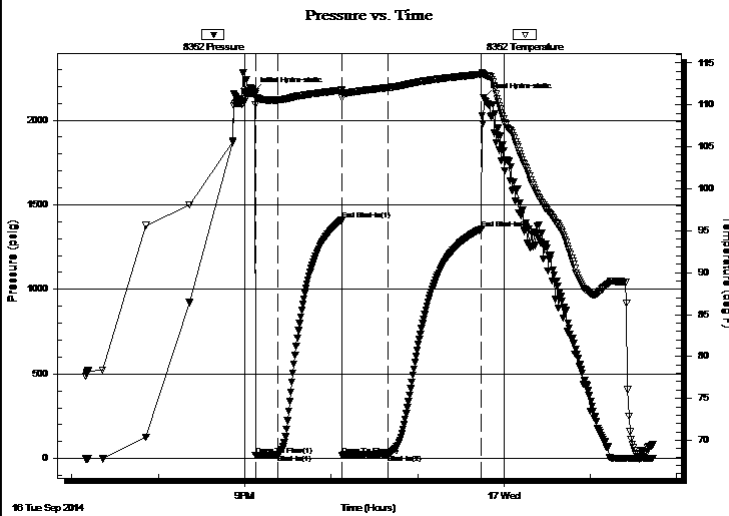
15-28s-19w Kiowa Ks.
Joy Station #1-15
Job Ticket: 57852 **DST#: 1**
Test Start: 2014.09.16 @ 19:09:27

GENERAL INFORMATION:

Formation: **K.C. "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:07:27
Time Test Ended: 01:43:12
Interval: **4458.00 ft (KB) To 4489.00 ft (KB) (TVD)**
Total Depth: 4489.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56
Reference Elevations: 2287.00 ft (KB)
2274.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8352 Outside
Press@RunDepth: 26.47 psig @ 4459.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.16 End Date: 2014.09.17 Last Calib.: 2014.09.17
Start Time: 19:09:32 End Time: 01:43:11 Time On Btm: 2014.09.16 @ 21:05:57
Time Off Btm: 2014.09.16 @ 23:45:57

TEST COMMENT: IF:Weak blow . 1/4".
IS:No blow .
FF:Weak surge. No blow .
FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.34	111.35	Initial Hydro-static
2	18.15	110.00	Open To Flow (1)
17	22.40	110.58	Shut-In(1)
62	1410.72	111.76	End Shut-In(1)
62	21.14	110.89	Open To Flow (2)
94	26.47	112.06	Shut-In(2)
159	1357.72	113.65	End Shut-In(2)
160	2135.03	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Heavy mud (Good odor)	0.07

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

15-28s-19w Kiowa Ks.
Joy Station #1-15
Job Ticket: 57852 **DST#: 1**
Test Start: 2014.09.16 @ 19:09:27

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:	4000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

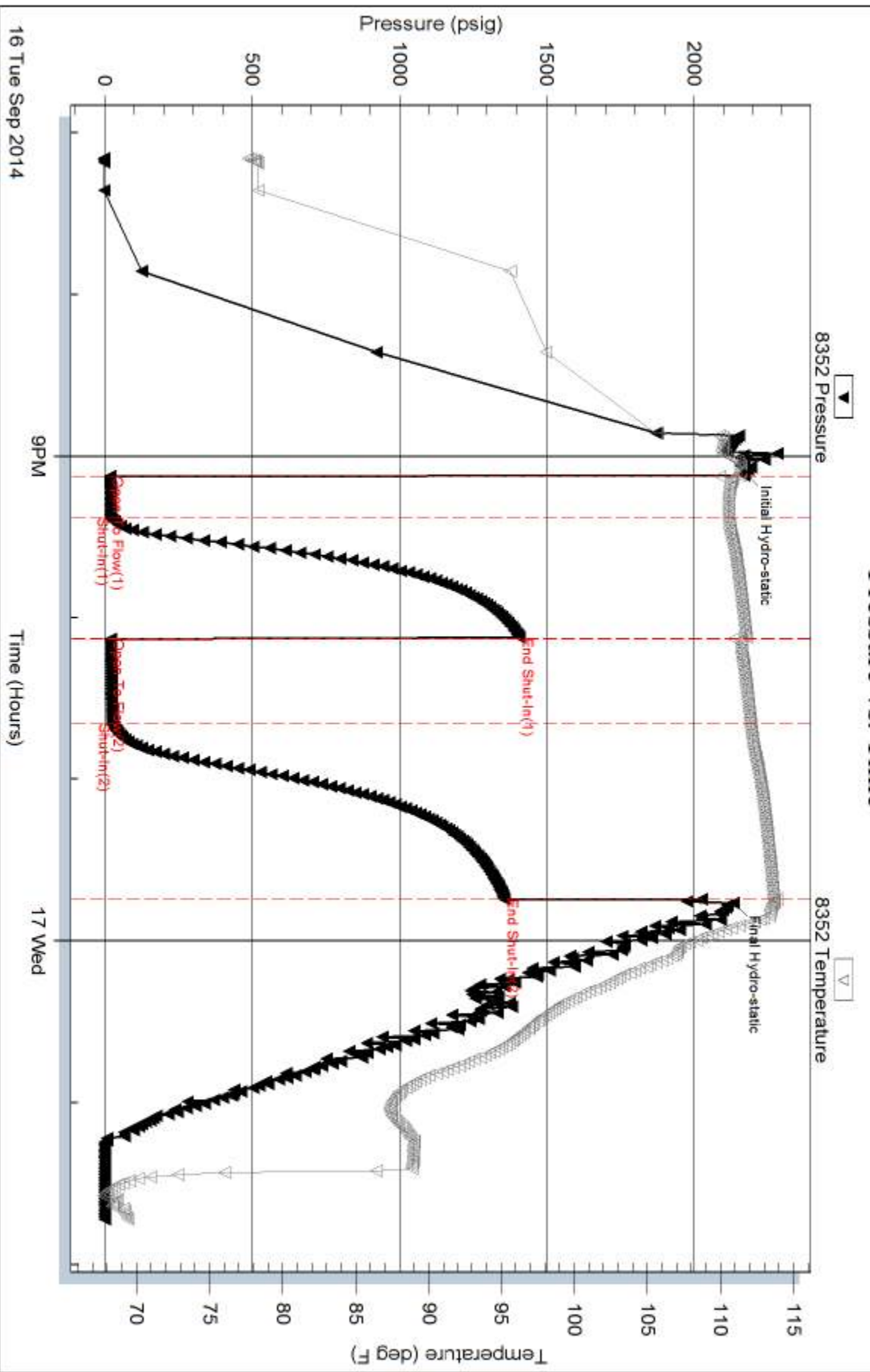
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Heavy mud (Good odor)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

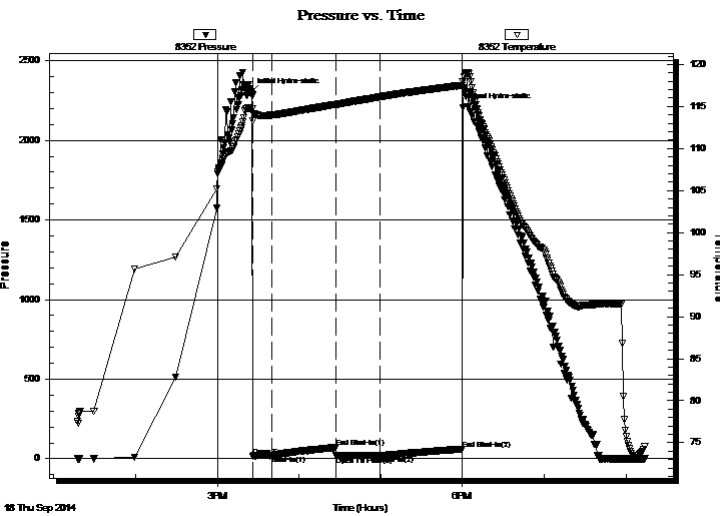
15-28s-19w Kiowa Ks.
Joy Station #1-15
 Job Ticket: 57853 **DST#: 2**
 Test Start: 2014.09.18 @ 13:17:23

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:26:08
 Time Test Ended: 20:14:08
 Interval: **4840.00 ft (KB) To 4872.00 ft (KB) (TVD)**
 Total Depth: 4872.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 2287.00 ft (KB)
 2274.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8352 Outside
 Press@RunDepth: 19.31 psig @ 4841.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.18 End Date: 2014.09.18 Last Calib.: 2014.09.18
 Start Time: 13:17:28 End Time: 20:14:07 Time On Btm: 2014.09.18 @ 15:24:38
 Time Off Btm: 2014.09.18 @ 18:00:08

TEST COMMENT: IF:Weak blow . 1/2".
 IS:No low .
 FF:Weak blow . 3/4 - 1".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.44	114.75	Initial Hydro-static
2	16.95	113.27	Open To Flow (1)
15	20.45	113.98	Shut-In(1)
63	70.88	115.26	End Shut-In(1)
63	17.91	115.22	Open To Flow (2)
95	19.31	116.15	Shut-In(2)
155	60.57	117.51	End Shut-In(2)
156	2206.22	117.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig.mud	0.05
0.00	80 ft.of GIP	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

15-28s-19w Kiowa Ks.
Joy Station #1-15
Job Ticket: 57853 **DST#: 2**
Test Start: 2014.09.18 @ 13:17:23

Mud and Cushion Information

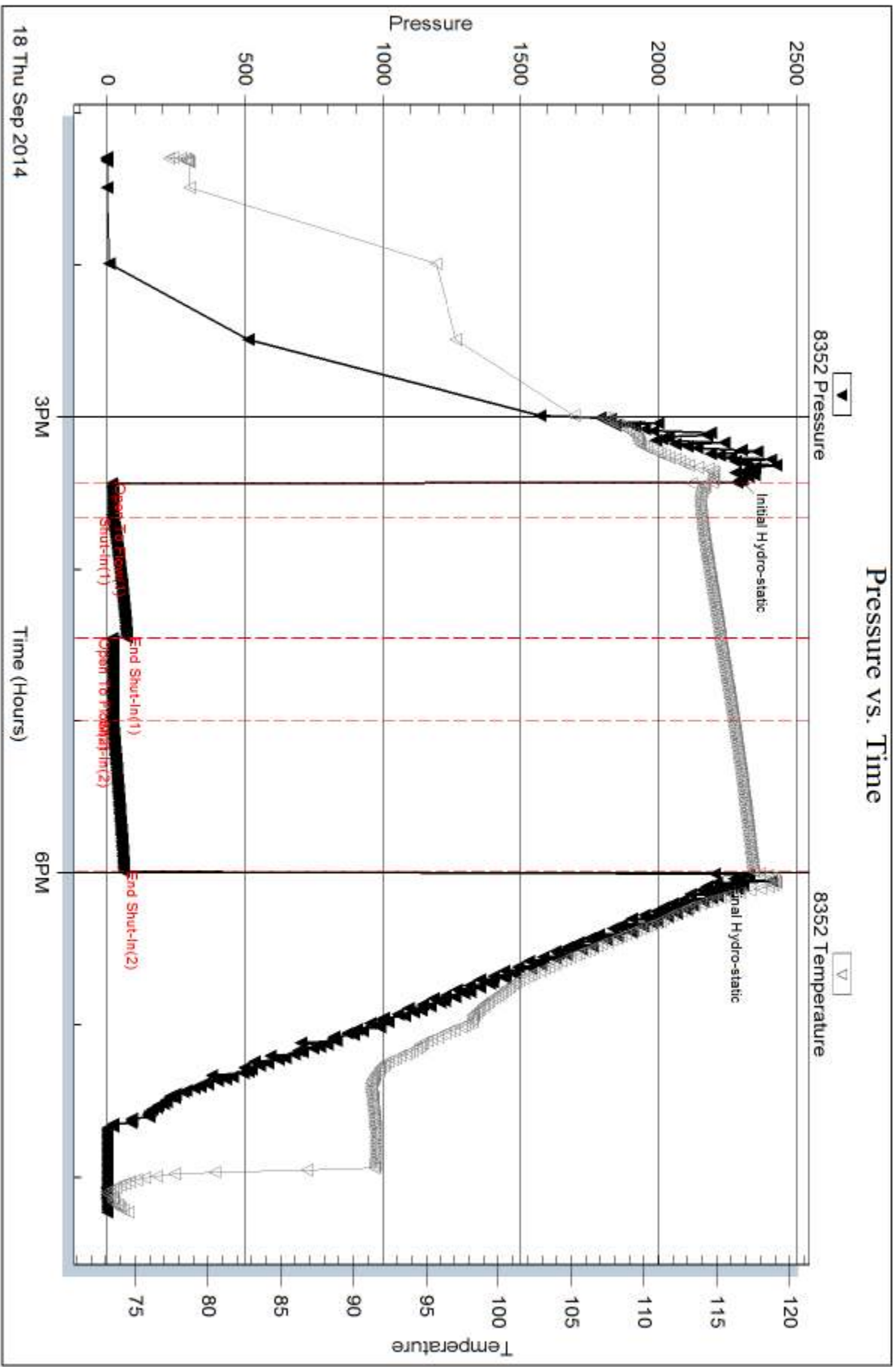
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	4000 ppm
Viscosity: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig.mud	0.049
0.00	80 ft.of GIP	0.000

Total Length: 10.00 ft Total Volume: 0.049 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

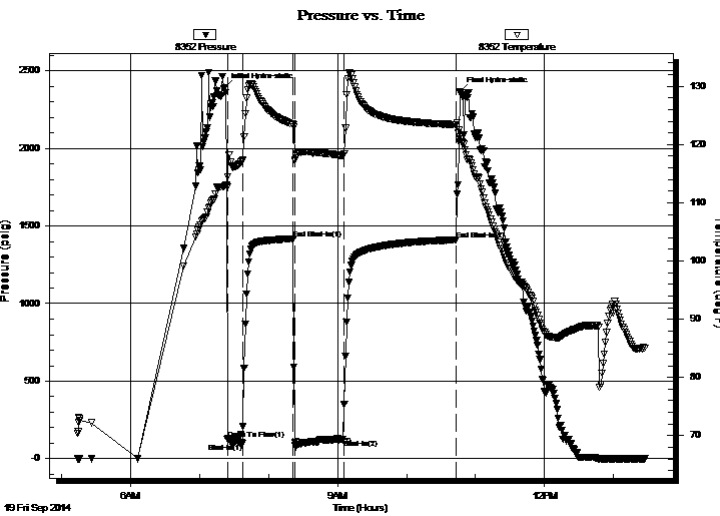
15-28s-19w Kiowa Ks.
Joy Station #1-15
 Job Ticket: 57854 **DST#: 3**
 Test Start: 2014.09.19 @ 05:14:06

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:24:21
 Time Test Ended: 13:26:51
 Interval: **4888.00 ft (KB) To 4932.00 ft (KB) (TVD)**
 Total Depth: 4932.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 2287.00 ft (KB)
 2274.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8352 Outside
 Press@RunDepth: 126.38 psig @ 4889.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.19 End Date: 2014.09.19 Last Calib.: 2014.09.19
 Start Time: 05:14:11 End Time: 13:26:50 Time On Btm: 2014.09.19 @ 07:21:51
 Time Off Btm: 2014.09.19 @ 10:46:36

TEST COMMENT: IF:Strong blow : B.O.B in 1 min. GTS in 8 mins. 4-5 ft. fill on btm. Slid tool 4 ft.
 IS:No blow .
 FF:Strong blow . (see gas flow report)
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2391.33	112.96	Initial Hydro-static
3	126.40	112.70	Open To Flow (1)
16	100.59	117.22	Shut-In(1)
60	1418.51	123.46	End Shut-In(1)
62	85.96	117.43	Open To Flow (2)
104	126.38	118.09	Shut-In(2)
202	1409.75	123.37	End Shut-In(2)
205	2363.90	121.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW w/trace of oil 45%w 55%w	0.59
0.00	Rw .39 ohms @ 90 deg	0.00
120.00	GCWM 16%g 26%w 58%m	0.59
70.00	GCM 9%g 91%m	0.34

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	17.00	211.82
Last Gas Rate	0.50	19.50	228.68
Max. Gas Rate	0.50	20.00	232.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

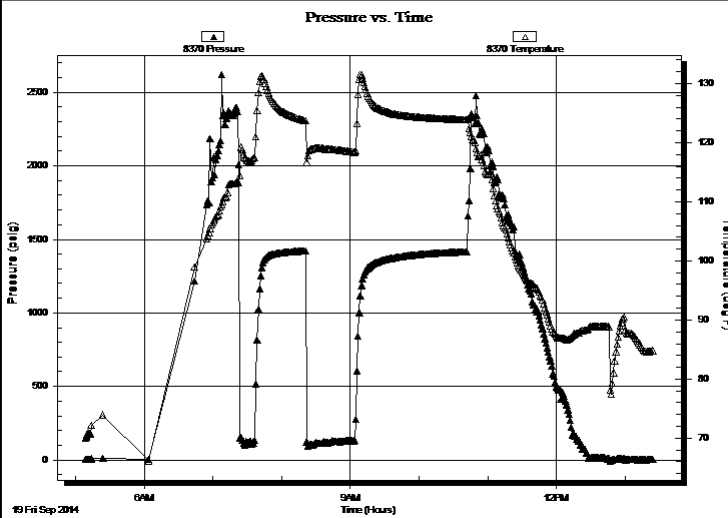
15-28s-19w Kiowa Ks.
Joy Station #1-15
Job Ticket: 57854 **DST#: 3**
Test Start: 2014.09.19 @ 05:14:06

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 07:24:21 Tester: Gary Pevoteaux
Time Test Ended: 13:26:51 Unit No: 56
Interval: 4888.00 ft (KB) To 4932.00 ft (KB) (TVD) Reference Elevations: 2287.00 ft (KB)
Total Depth: 4932.00 ft (KB) (TVD) 2274.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 13.00 ft

Serial #: 8370 Inside
Press@RunDepth: psig @ 4889.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.19 End Date: 2014.09.19 Last Calib.: 2014.09.19
Start Time: 05:09:00 End Time: 13:23:54 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong blow : B.O.B in 1 min. GTS in 8 mins. 4-5 ft. fill on btm. Slid tool 4 ft.
IS: No blow .
FF: Strong blow . (see gas flow report)
FS: No blow .



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

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	MW w/trace of oil 45%w 55%w	0.59
0.00	Rw .39 ohms @ 90 deg	0.00
120.00	GCWM 16%g 26%w 58%m	0.59
70.00	GCM 9%g 91%m	0.34

* Recovery from multiple tests

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	17.00	211.82
Last Gas Rate	0.50	19.50	228.68
Max. Gas Rate	0.50	20.00	232.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

15-28s-19w Kiowa Ks.
Joy Station #1-15
Job Ticket: 57854 **DST#: 3**
Test Start: 2014.09.19 @ 05:14:06

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:	19000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.79 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
120.00	MW w/trace of oil 45% m 55% w	0.590
0.00	Rw .39 ohms @ 90 deg	0.000
120.00	GCWM 16% g 26% w 58% m	0.590
70.00	GCM 9% g 91% m	0.344

Total Length: 310.00 ft Total Volume: 1.524 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: gp-3
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

15-28s-19w Kiowa Ks.
Joy Station #1-15
Job Ticket: 57854 **DST#: 3**
Test Start: 2014.09.19 @ 05:14:06

Gas Rates Information

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

Gas Rates Table

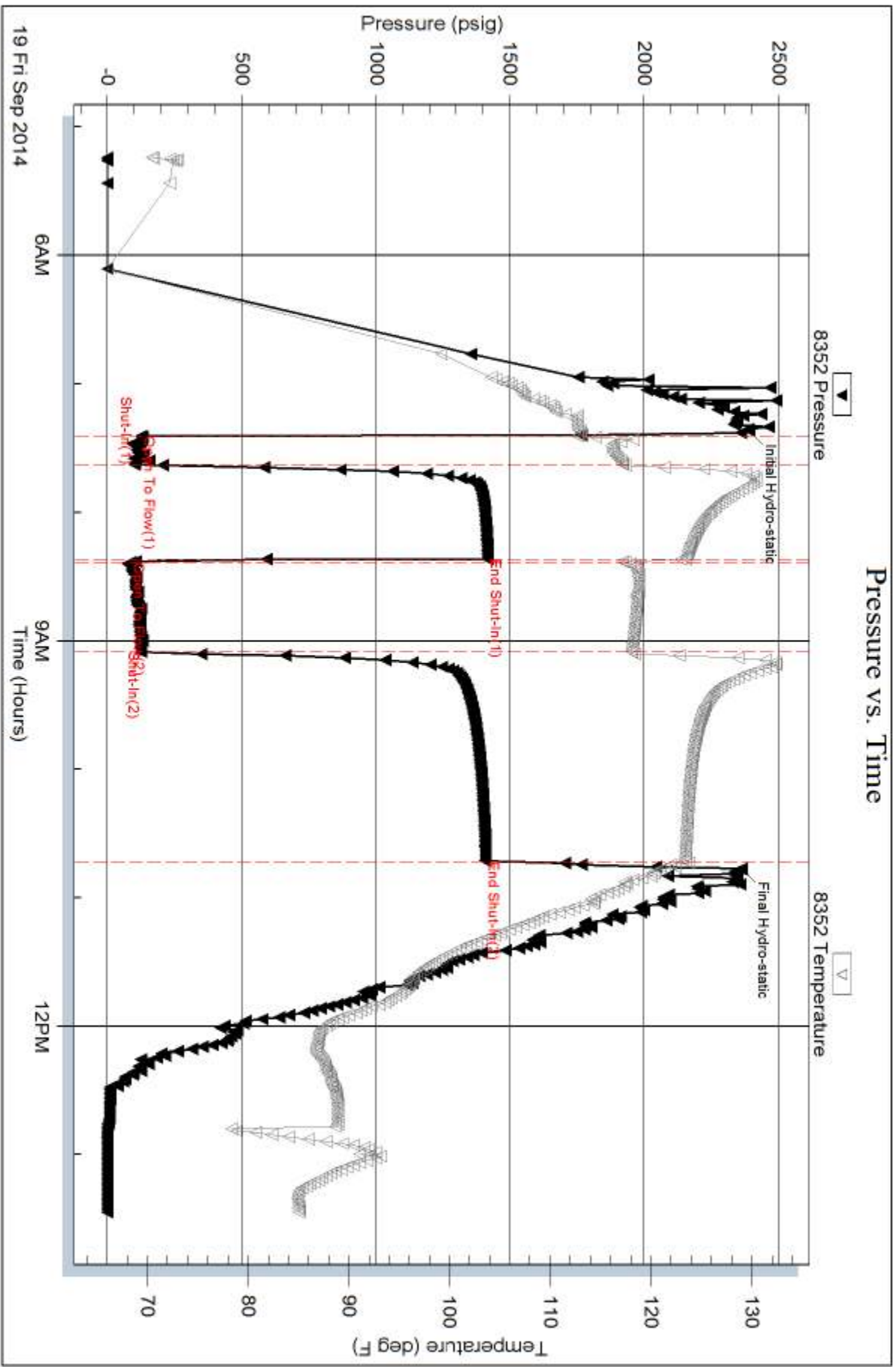
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.50	17.00	211.82
2	20	0.50	19.00	225.31
2	30	0.50	20.00	232.05
2	40	0.50	20.00	232.05
2	45	0.50	19.50	228.68

Serial #: 8352

Outside Herman L. Loeb LLC

Joy Station #1-15

DST Test Number: 3



Triobrite Testing, Inc

Ref. No: 57854

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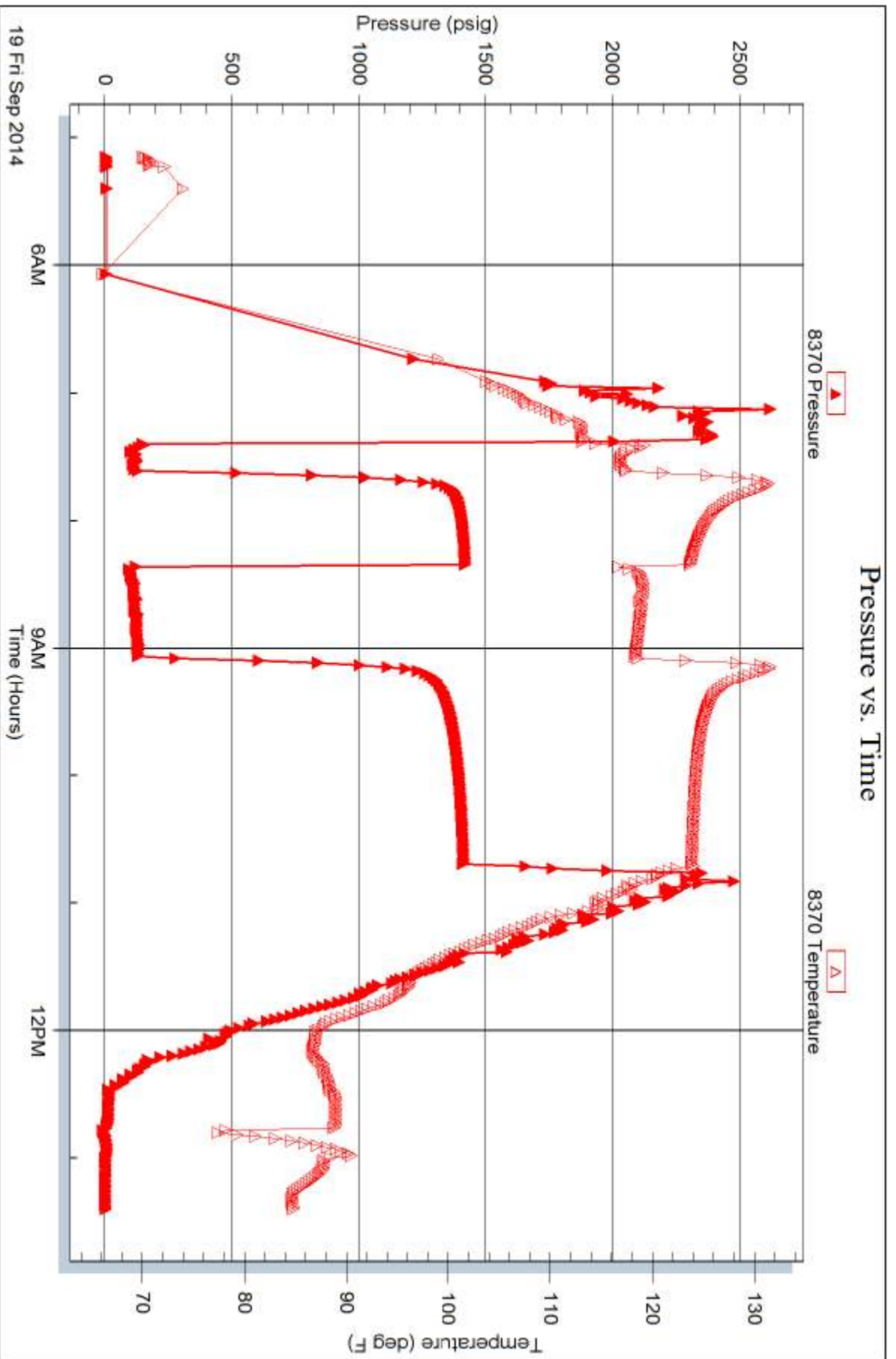
Serial #: 8370

Inside

Herman L. Loeb LLC

Joy Station #1-15

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 57854

Printed: 2014.09.19 @ 13:59:07