



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1138561
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: _____



1138561

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: 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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	UNRUH 'D' 1-21
Doc ID	1138561

Tops

Name	Top	Datum
Chase	2430	-228
Heebner	4036	-1834
Toronto	4054	-1852
Lansing 'A'	4198	-1996
Lansing/KC 'H'	4358	-2156
Kansas City 'I'	4405	-2203
Hertha	4550	-2348
Base Kansas City	4581	-2379
Miss. Chert	4754	-2552
Kinderhook Sand	4822	-2620

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: D. Unruh #1-21
Location: 1100' FSL & 2290' FWL, Sec. 21-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21750-0000 Region: Unnamed
Spud Date: 2/18/2013 Drilling Completed: 2/28/2013
Surface Coordinates: 1100' FSL & 2290' FWL, Sec. 21-T27S-R18W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2191' K.B. Elevation (ft): 2202'
Logged Interval (ft): 3350' To: 4875' Total Depth (ft): 4875'
Formation: Kinderhook at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3177'; Chemical Gel 3177' to 4875'.

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

OPERATOR

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

GEOLOGIST

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

Cores

None Taken

DSTs

DST #1(Lansing 'A') 4201' - 4218'(Corrected Depths to LOG) Test Times 15"-45"-30"-60" IFP Weak Blow built to 1", FFP Weak 0.5" Blow, no Blowback on SI's; REC: 70' MSW(16%M, 84%W) CI 81,000, Mud 10,000, no shows; IFP 18-30#, ISIP 1464#, FFP 33-54#, FSIP 1451#, IHP 2115#, FHP 2065#, BHT 111 Deg. F.

DST #2(Upper bench of Kansas City 'I') 4394' - 4414'(Corrected Depths to LOG) Test Times 15"-45"-30"-75" IFP Weak Blow built to 3", FFP Fair 4" Blow, no Blowback on SI's; REC: 110' Gas in Pipe, 55' Drlg. Mud w/oil Specks and thin layer of Free Oil on top of Fluid, no water; IFP 29-31#, ISIP 1088#, FFP 36-49#, FSIP 1185# and Building, IHP 2246#, FHP 2100#, BHT 116 Deg. F.

DST #3(Miss. Chert) 4739' - 4788' Test Times 15"-45"-60"-120" IFP Fair to Strong 10" Blow, FFP Fair to Strong 11" Blow, no Blowback on SI's; REC: 340' Gas in Pipe, 35' Drlg. Mud, no oil or water; IFP 20-26#, ISIP 166#, FFP 23-31#, FSIP 219#, IHP 2522#, FHP 2471#, BHT 120 Deg. F.

Comments

2/18/13 MIRU Sterling Drilling Rig #2, Spud at 6:00 PM; 2/19/13 TD. 566' - WOC; 2/20/13 Drilling at 1933'; 2/21/13 Drilling at 2953'; 2/22/13 Drilling at 3680'; 2/23/13 TD. 4222' - CCH for DST #1; 2/24/13 Drilling at 4415'; 2/25 TD. 4418' - SHUT DOWN OP's - SNOW STORM, 2/26/13 Resumed Drilling operations at 1:50 PM.; 2/27/13 Drilling at 4705'; 2/28/13 TIH after DST #3, Reached TD. 4875' at 12:45 PM., Logged well LTD. 4872'; 3/1/13 RTD. 4875' - LDDP to run 5 1/2" Production Casing.

Set new 8 5/8"(24#) Surface Casing at 561' with 350 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 5:00 AM. 2/19/13.

Set new 5 1/2"(15.5#) Production Casing at 4862' with 200 sx. of "Loeb Blend" cement(Basic Energy Services). PD. 5:00 PM. on 3/1/13.

Surveys: 1.25 Deg. at 566'(Surface Casing); 1 Deg. at 4222'(DST #1); 1 Deg. at 4788'(DST #3).


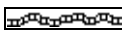
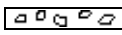

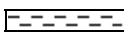







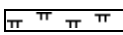
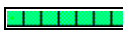
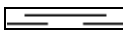
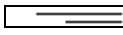
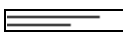



Pipe Strap at 4222'(DST #1): Strap 3.05' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data, and favorable indication of commercial quantities of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for Completion in the Mississippi Chert and Kansas City 'I' zone.








































































LOG TOPS: Chase 2430(-228), Stotler Lmst. 3389(-1187), Howard 3596(-1394), Heebner Shale 4036(-1834), Toronto 4054(-1852), Brown Lmst. 4189(-1987), Lansing 'A' 4198(-1996), Lansing/KC. 'H' 4358(-2156), K.C. 'I' 4405(-2203), Stark Shale 4491(-2289), Hertha 4550(-2348), Base Kansas City 4581(-2379), Marmaton 4626(-2424), Pawnee 4674(-2472), Cherokee Shale 4710(-2508), Miss. Chert 4754(-2552), Kinderhook Shale 4782(-2580), Kinderhook Sand 4822(-2620).

NOTE: This log was shifted upward by 3' to 4' 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
 - Inter
 - Moldic
 - Organic
 - P Pinpoint

- V Vuggy
- SORTING**
- W Well
 - M Moderate
 - P Poor

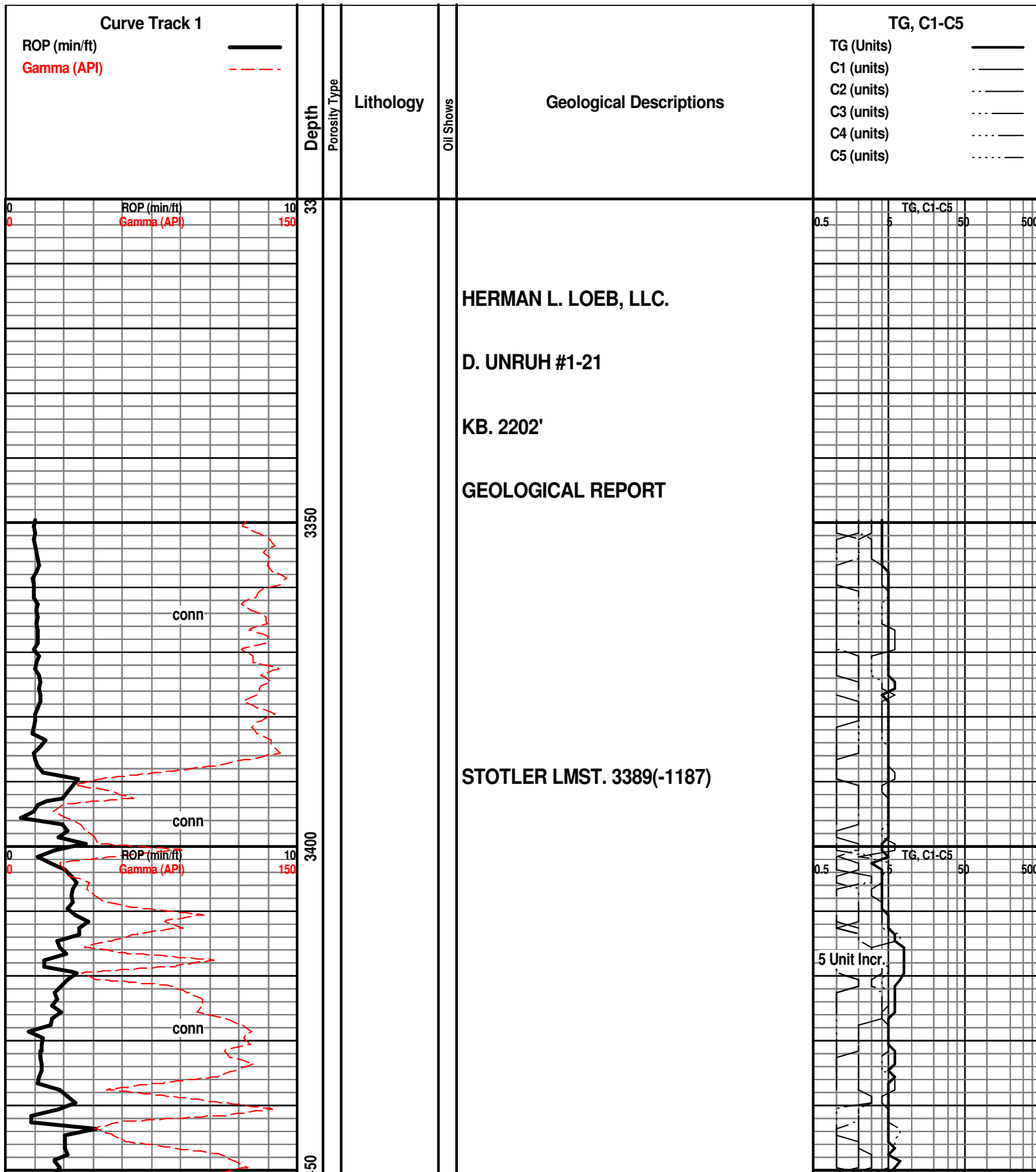
- ROUNDING**
- R Rounded
 - Subr Subrond
 - a Subang
 - A Angular

- Spotted
- Qes
- Dead

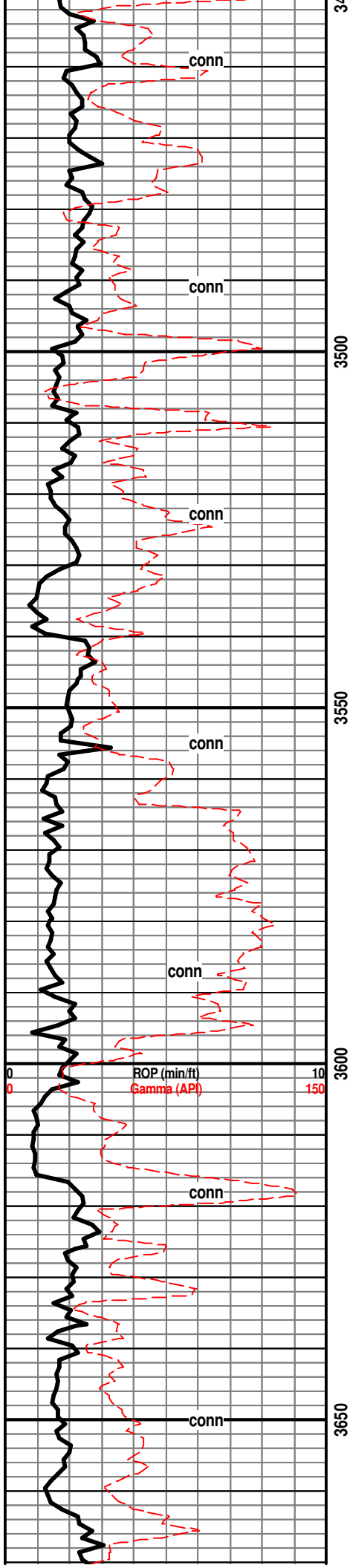
- EVENT**
- Rft
 - Sidewall

- INTERVAL**
- Core
 - Dst

- OIL SHOW**
- Even

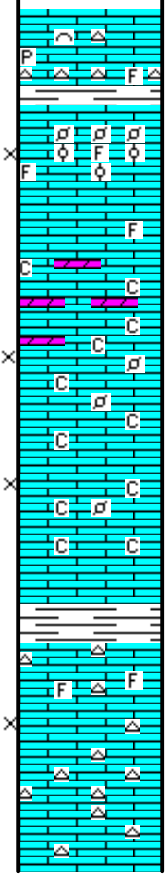
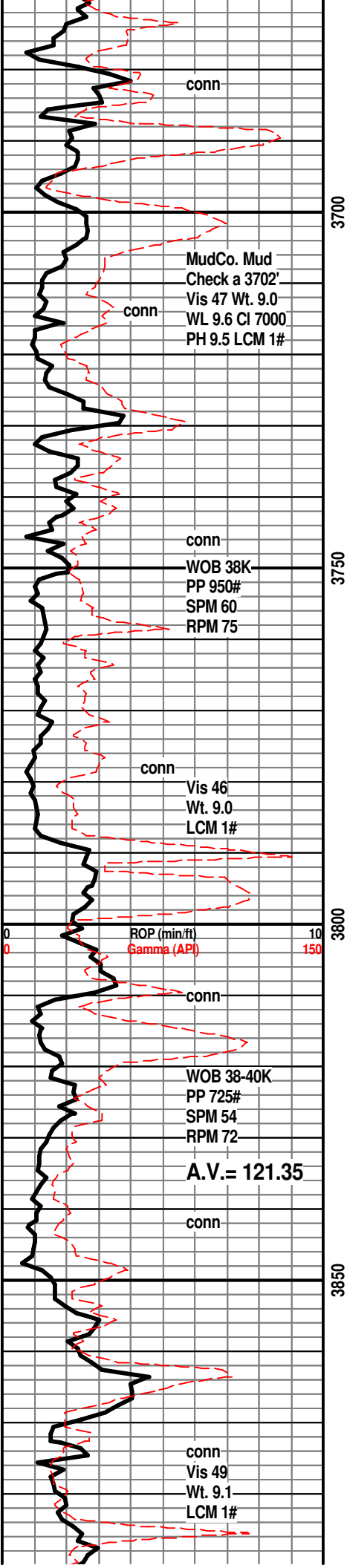


5 Unit Incr.



HOWARD 3596(-1394)





Start 10' Wet and Dry Samples

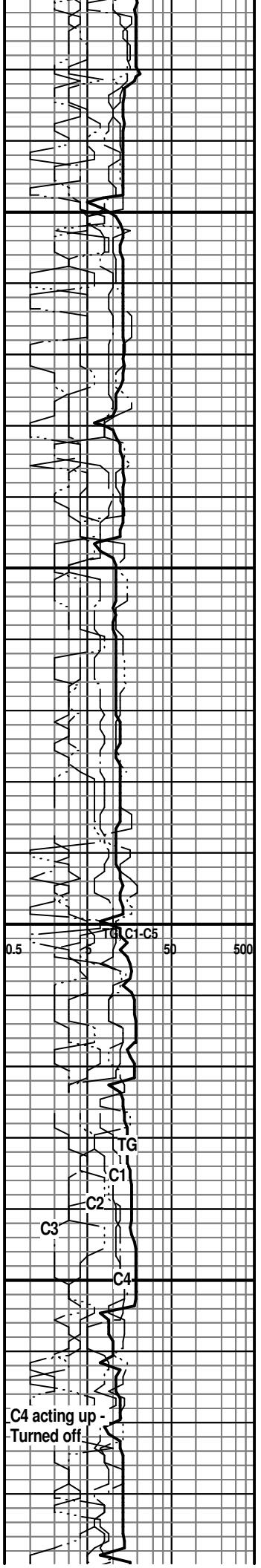
LM; med to dk gy, gy brn, foss, dense, scat gy and tan occ foss cht, no vis por, ns.

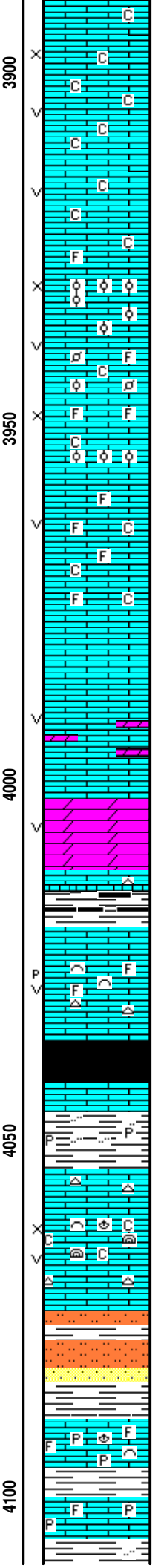
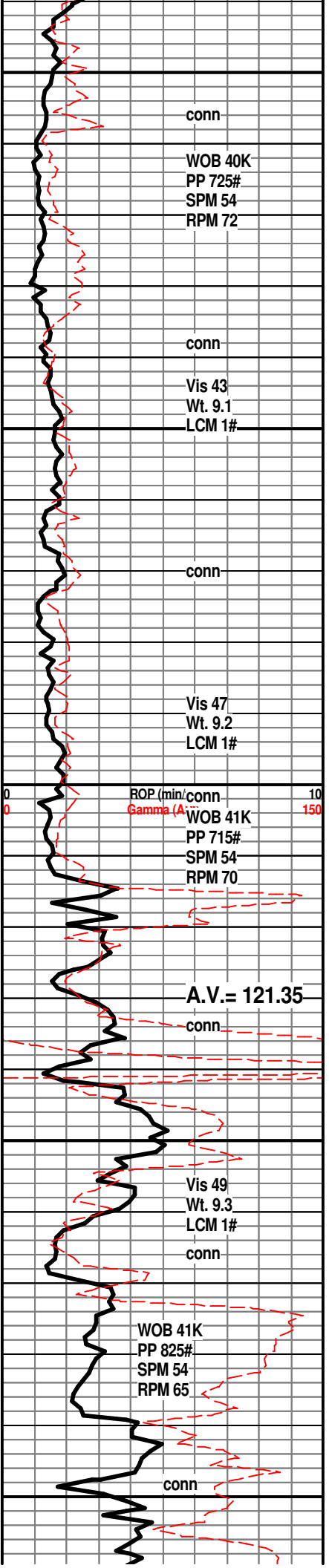
LM; off wh, tan, buff, highly foss - partly oolitic/pelletal, fair interpart por, lt yel min flur, no stn or odor, ns.

LM; off wh, tan, lt brn, gran to cse xln, trc sucrosic text, interbdd dolo and dolomitic lmst, abnt rnd gr and occ foss pellets, chalky soft mtx ip, scat lt to med yel min flur, no stn odor, ns.

LM; tan to lt brn, micritic, blocky, scat gy to off wh/wh cht, interbdd dense foss lmst, no flur, ns.

LM; tan to cream, buff, f to med xln, v. cherty w/scat foss mat, occ lt yel min flur, no stn or odor, ns.





LM; tan to off wh, buff, f to med xln, scat gd interxln w/occ vug por, interbdd soft chalky lmst, scat lt yel min fluor, occ cse opaque spar calc xtals, no stn or odor, ns.

LM; tan to lt brn, off wh, foss ip w/scat pellets and occ hash, chalky mtx, fair interpart w/scat vug por, spotty lt yel min fluor, no stn or odor, ns.

LM; tan to lt brn, buff, off wh, foss w/scat hash, interbdd chalk and chalky lmst, occ vug por, lt yel min fluor, ns.

LM; off wh, tan, buff, med to occ cse xln, abnt opaque spar calc xtals, interbdd sucrosic dolo. lmst w/vug por, lt yel min fluor, no stn or odor, ns.

DOL; lt to med brn, sucrosic, scat vug por, lt to med yel min fluor, no stn or odor, no gas kick, ns.

SH; dk gy, some blk, platy, firm

LM; lt brn, tan, fxln to micritic, scat well cem foss mat, interbdd fxln lmst w/p-p and occ vug por, lt yel fluor, no stn or odor, no gas kick, ns.

HEEBNER SHALE 4036(-1834)

SH; blk, carb ip, platy

LM; med to dk brn, hd, blocky

SH; grn, gy grn, silty ip, occ pyr

TORONTO 4054(-1852)

LM; wh, off wh, fxln to dense, micritic ip, occ wh cht, tite

LM; wh, off wh, tan, foss w/scat algal mat, fair interpart w/occ vug por, interbdd chalk and chalky mtx, dull yel fluor, no stn or odor, no gas kick, rare off wh cht, ns.

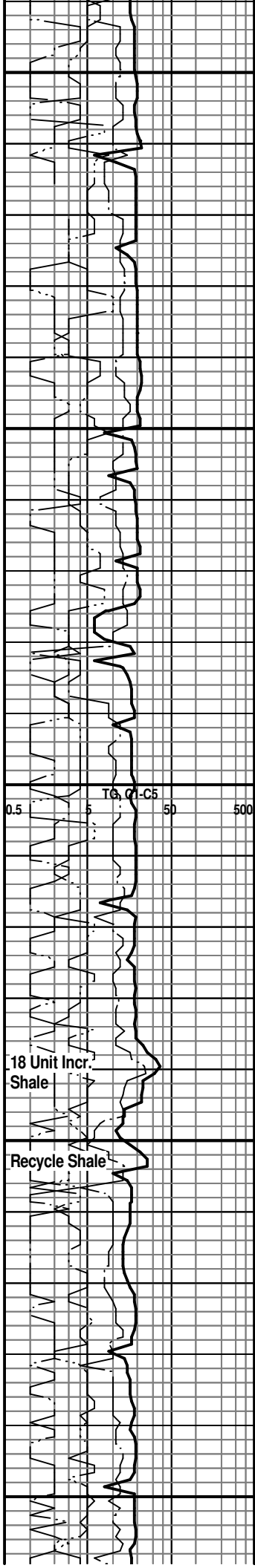
DOUGLAS SHALE 4074(-1872)

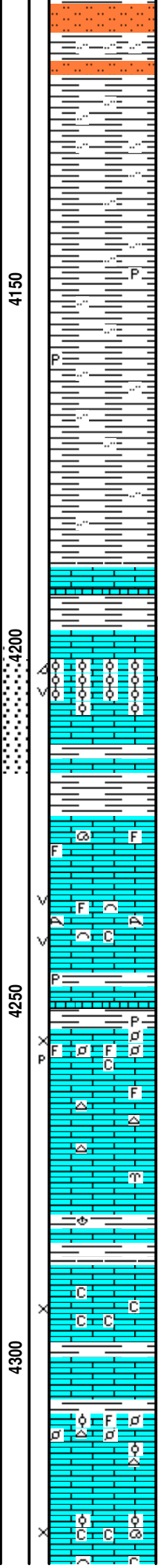
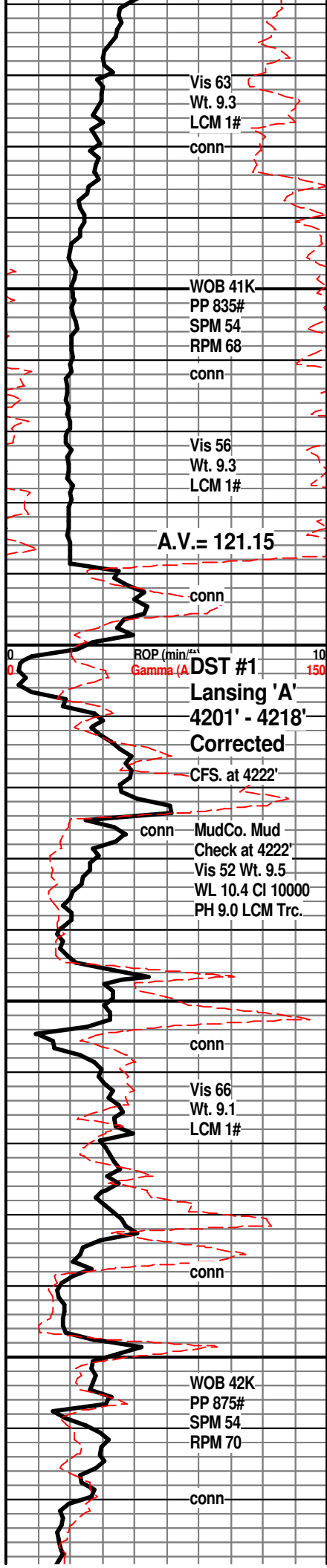
SH & SLTST; red, grn, med gy, firm

SLTST; lt gy, sandy w/interbdd vf to f gr qtz ss, mica ip, platy

LM; lt to med brn, v. foss, hd, well cem, scat pyr, lt yel min fluor, no stn, ns.

LM; med brn, hd, pyr ip, rare foss, tite





SH; lt to med gy, silty w/interbdd sltst, v. firm platy

SH; lt to med gy, platy, occ silty

SH; med gy, silty, platy, occ free pyr

SH; lt to med gy, occ silty, rarely mica, most smooth, flakey ip.

BROWN LMST. 4189(-1987)

LM; med brn, dense, micritic, hd

LANSING 'A' 4198(-1996)

LM; tan to med brn, oolitic, most med to lrg moldic por, gd oomoldic w/occ vug por, med to brite yel fluor, few gas bubbles, rare pcs w/dk brn v. spotted oil stn, v. faint odor, some rextalized, pred. gas show

DST #1: Lansing 'A' 4201' - 4218' Corrected Depths to Log

LANSING 'B' 4224(-2022)

LM; off wh, tan, foss ip, most dense, well cem, scat off wh cht, no vis por, no fluor, ns.

LM; lt gy, tan, foss, scat fusulinids and coral frags, some cse xln w/spar calc xtals, fair vug por ip, occ lt yel fluor, no stn or odor, no gas kick, minor chalky mtx, barren, ns.

SH; grn, gy grn, platy, occ pyr

LM; off wh, buff, foss w/finely pelletal lmst, fair interpart w/scat p-p por, minor chalky mtx, lt yel fluor, no vis stn, no odor, no sample shows

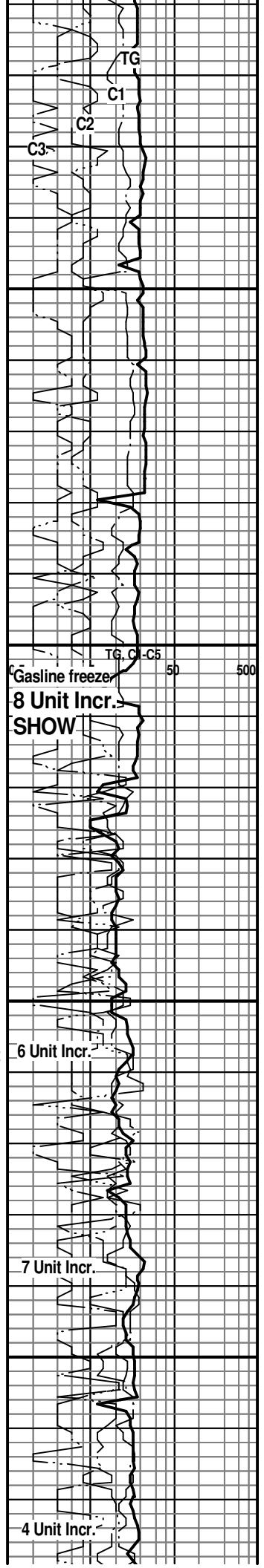
LM; lt brn, tan, micritic, scat off wh/gy cht, tite

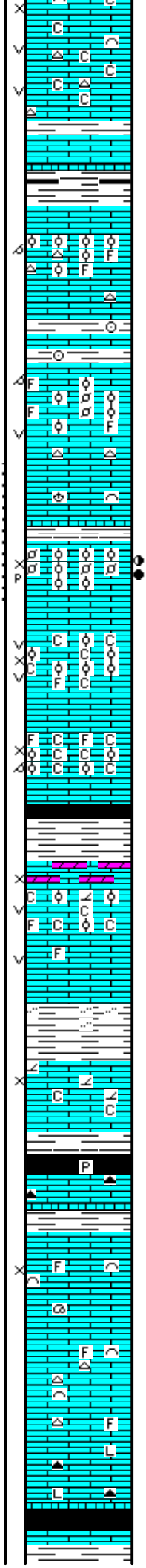
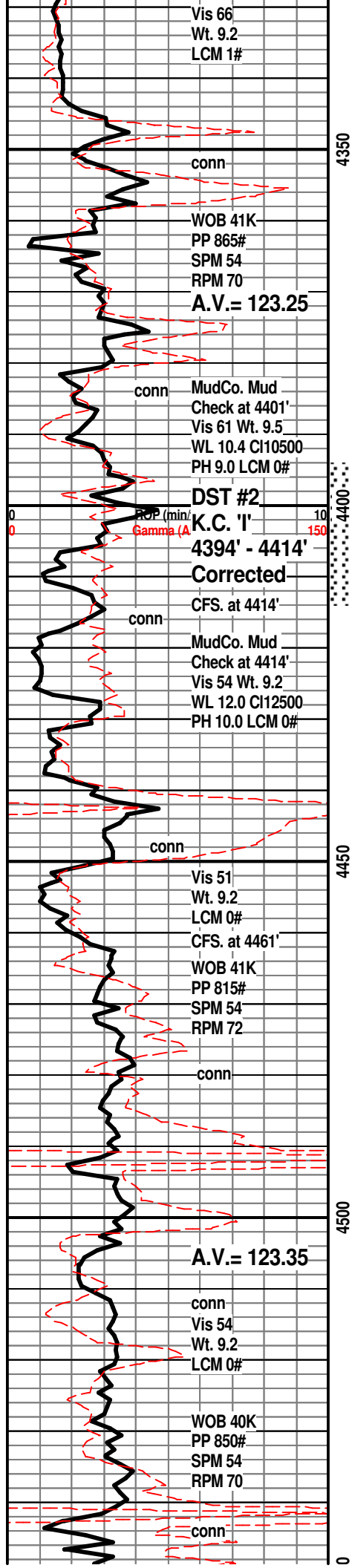
SH; med to dk gy, platy, foss ip.

LM; tan to cream, buff, med xln w/scat cse spar calc xtals, fair interxln por, occ chalky mtx, no fluor, no stn or odor, ns.

LM; lt to med brn, scat small pellets and foss mat, most well cem, interbdd gy/brn cht, no fluor, ns.

LM; off wh, wh, tan, med to occ cse xln, trc off wh oolitic lmst, fair intexln por, much soft chalky mtx, scat foss mat, dull yel min fluor, no stn odor, no sample





shows

LM; off wh, wh, buff, med xln w/scat fair to gd vug por, chalky ip, scat off wh cht interbdd, no fluor, ns.

LM; med brn, dense, micritic, hd.

SH; dk gy, trc blk, platy

LANSING/K.C. 'H' 4358(-2156)

LM; tan to lt brn, oolitic, med size oolites, some poorly dev. oomoldic por, most well cem, scat oolitic cht, dull yel min fluor, no stn or odor, no sample shows

SH; med gy, grn, foss ip.

LM; lt brn, foss - partly oolitic, poor to fair oomoldic por, occ small vug por, interbdd foss hash, lt yel min fluor, no stn or odor, ns.

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

KANSAS CITY 'I' 4405(-2203)

LM; off wh, buff, finely pelletal/oolitic, fair to gd interpart w/p-p por, med/brite yel fluor, SFO, spotted to even light oil stn, few gas bubbles, gd odor, gd streaming cut

DST #2: K.C. 'I' 4394' - 4414' Corrected Depths to LOG

LM; tan to lt gy, foss/finely oolitic, fair interpart and vug por, minor chalky mtz, dull yel fluor, no stn or odor, no gas kick, barren

LM; off wh, buff, tan, foss w/small oolites and fair oomoldic por, much soft chalky mtz, dull yel min fluor only, no stn or odor, no gas kick, ns.

SH; blk, dk gy, platy, smooth

KANSAS CITY 'J' 4450(-2248)

LM; off wh, wh, buff, foss w/foss hash and oolitic lmst, dolomitic ip w/scat sucrosic text, fair interpart w/scat small vug por, much chalky mtz, dull yel fluor, no stn/odor, ns.

LM; lt brn, fxln w/rare unconnected vug por, lt yel fluor, no stn, ns.

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

LM; off wh, tan, buff, fxln to sucrosic text, partly dolomitic, poor to no vis interxln por, scat soft chalky mtz, no fluor, ns.

STARK SHALE 4491(-2289)

SH; blk, carb, occ pyr

LM; med brn, hd, scat smoky cht, tite

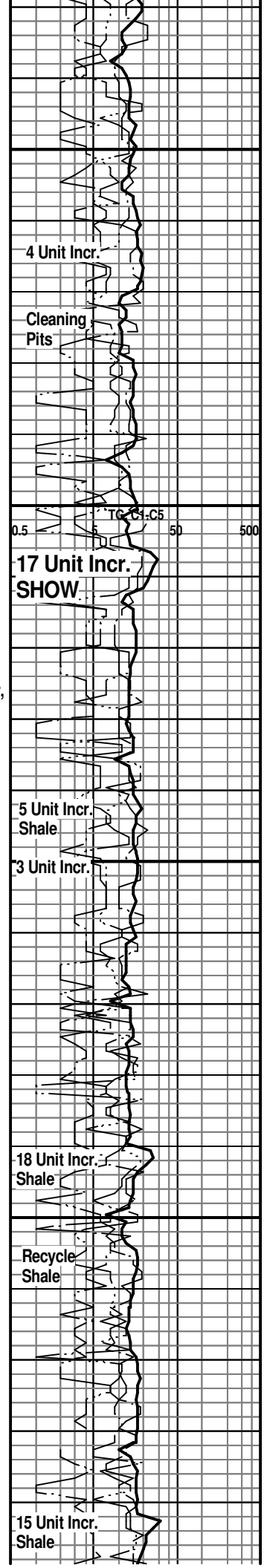
SWOPE 4502(-2300)

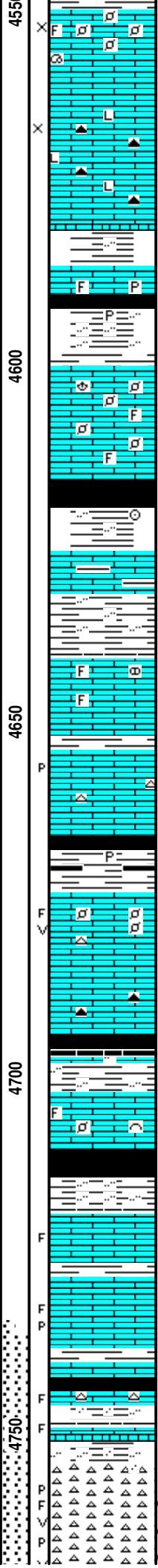
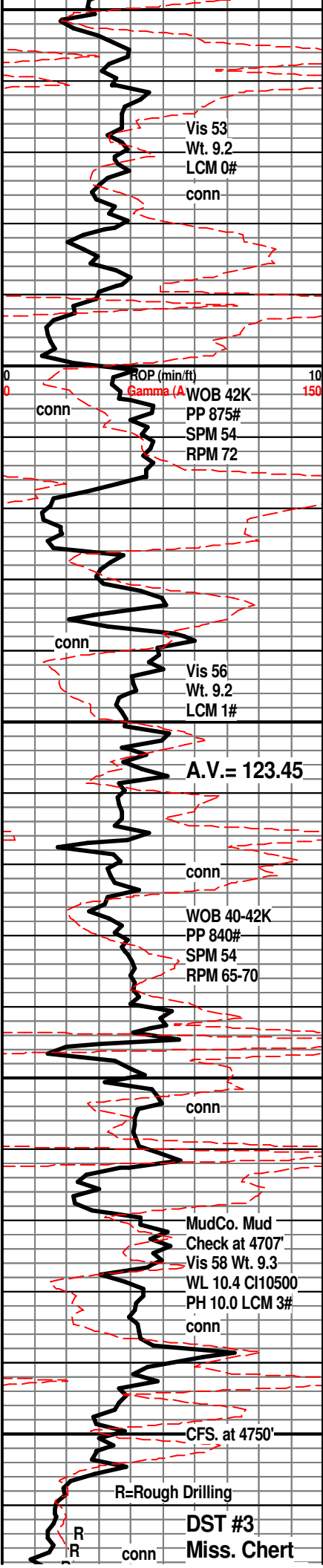
LM; lt to med brn, gy brn, gritty text ip, scat foss mat, poor interpart por, dull yel min fluor only, no stn or odor, ns.

LM; lt to med brn, foss ip, well cem, scat cse opaque spar calc xtals, rare gy cht, no vis por, no fluor, ns.

LM; lt to med brn, dense, litho ip, tite, scat smoky cht

SH; blk, carb ip, platy to blocky





HERTHA 4550(-2348)
LM; lt to med brn, med xln w/scat foss mat, occ pellets, poor interpart por, lt yel min fluor, no stn or odor, ns.

LM; med to dk brn, dense, litho ip, hd, scat dk gy to occ smoky cht, no vis por, no stn, ns.

BASE KANSAS CITY 4581(-2379)
SH; grn, gy grn, some varic, platy

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

SH; varic, blk, grn, silty w/interbdd sltst.

PLEASANTON 4600(-2398)
LM; tan to buff, lt brn, med to occ cse xln, scat well cem foss hash and occ pellets, dense, no vis por, lt yel min fluor, no stn or odor, ns.

SH; blk, grn, red, brn, silty ip, occ foss

MARMATON 4626(-2424)
LM; lt brn, occ pale grn tint, argil ip, micritic, tite

SH; grn, soft, silty ip.

LM; tan to lt brn, foss ip, rare brn nodular lmst interbdd, no vis por, no stn or odor, ns.

LM; off wh, buff, tan, fxln, scat blk dead oil/gils. on few pcs, v. poor p-p por, trc cht w/med brn stn on frac face, lt yel fluor, no odor, no live shows, no gas kick

SH; blk, v. dk gy, platy, occ pyr

PAWNEE 4674(-2472)
LM; lt brn, hd, scat well cem foss pellets and hash, minor cht w/blk tar/gilsonite - trc fracs, minor vug por w/scat blk residual oil, occ lt to med yel min fluor, no odor, no gas kick

LM; lt to med brn, most dense - micritic, blocky, rare brn cht, no fluor, no stn, ns.

SH; blk, carb ip, trc gas

LM; lt to med brn, scat foss mat, no vis por, trc blk tar/dead oil, dull golden yel fluor, no odor, no gas kick,

CHEROKEE SHALE 4710(-2508)
SH; blk, dk gy, grn, silty ip.

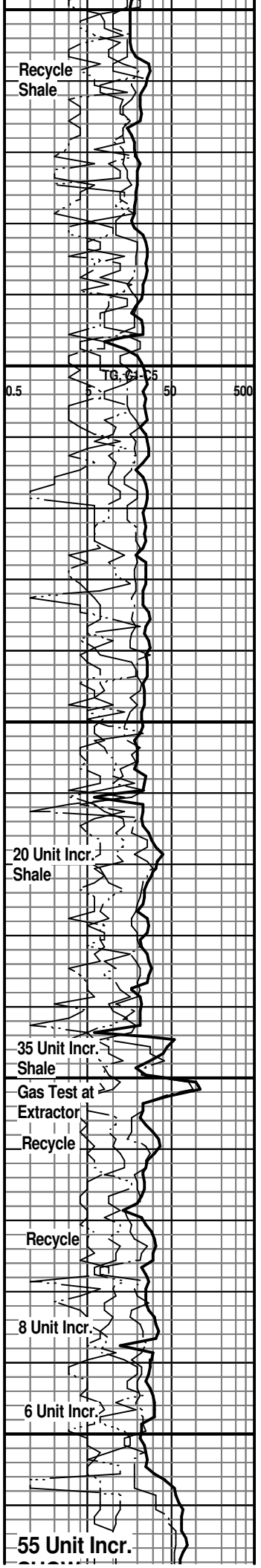
LM; tan to lt brn, fxln, most dense, occ blk tar/gils on edges, poss fracs, dull yel fluor, no live shows, no odor, no new gas kick

LM; tan to lt brn, fxln, trc fracs w/poor p-p por, most dense, trc dk brn/blk spotted stn, most tite, dull yel fluor, no odor

LM; lt brn, dense, scat frac faces w/blk tar/gils, some tan cht w/tar/gils, no odor, no live shows

MISSISSIPPI CHERT 4754(-2552)
CHT; varic, org, gy, wh, fresh and trip, fracs in fresh cht, tripolite has fair p-p and vug por, fair spotted/even med brn oil stn, SSFO, few gas bubbles, med to occ brite yel fluor, faint odor

CHT; wh, off wh, fresh and trip, fracs w/live brn edge



4735' - 4784'
Corrected

CFS. at 4784'

conn

Gamma (API)

MudCo. Mud
Check at 4821'
Vis 64 Wt. 9.3
WL 9.6 Cl 11000 PH
10.0 LCM 2#

conn

CFS. at 4836'

Vis 62
Wt. 9.3
LCM 2#

conn

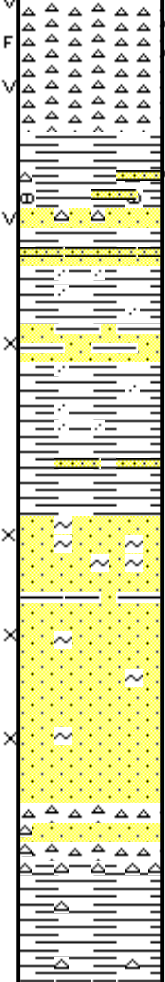
CFS. at RTD.

4800

4850

4900

50



CHT; wh, br wh, fresh and tip, faces w/lve brn edge stn, rare blk tar/dead oil stn, weathered edges in cht w/lve brn stn, few gas bubbles, SSFO, med/occ brite yel fluor, less show in bottom of zone w/pred fresh chert

DST #3: Miss. Chert 4735' - 4784'

Corrected Depths to LOG

KINDERHOOK SHALE 4782(-2580)

SH; grn, gy grn, rust red, some varic, platy, interbdd f gr qtz ss w/abnt blk tar/dead oil, also weath. cht and sandy cht w/vug por, dead oil

SS; pale grn, off wh, vf to f gr qtz, shaly, soft, fair intergran por, no fluor, no stn, ns.

SH; grn, gy gn, sandy ip, platy

KINDERHOOK SAND 4822(-2620)

SS; wh, lt gy, grn, rare clr, all f gr qtz, clusters, subrnd gr, most fri, glau ip w/chlorite clays, fair to gd intergran por, rare lt yel fluor, trc gas bubbles, rare blk/dead oil, no odor, interbdd argil ss, 99% barren of shows

SS; clr, lt gy, wh, occ pale grn, all f gr qtz, clusters, most w/gd intergran por, subrnd gr, most clean, rare glau/chlorite, no fluor, no stn or odor, no gas kick

SS and CHT; wh, transl, siliceous ss, dense, no fluor, ns.

SH; huge incr. in varic shales, possible sloughing shale, scat wh/transl. chts

RTD. 4875' at 1:45 PM. 2/28/13

LTD. 4872'

Halliburton DIL, NEU/DEN, Microlog, Sonic

NOTE: This log was shifted upward by 3' to 4' for correlation purposes with the Halliburton LOGS.

SHOW

Recycle of the Gas Kick

TG. C5

10 Unit Incr. POSS. SHOW





DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville IL 62439

ATTN: Jon Christensen

Unruh D #1-21

21-27s-18w Kiowa,KS

Start Date: 2013.02.23 @ 11:26:42

End Date: 2013.02.23 @ 18:52:12

Job Ticket #: 50843 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.07 @ 11:19:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L. Loeb ,LLC

21-27s-18w Kiowa,KS

PO Box 838
Lawrenceville IL 62439

Unruh D #1-21

Job Ticket: 50843

DST#: 1

ATTN: Jon Christensen

Test Start: 2013.02.23 @ 11:26:42

Tool Information

Drill Pipe:	Length: 3983.00 ft	Diameter: 3.80 inches	Volume: 55.87 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume: 56.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4205.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

C.O. Sub	1.00			4183.00	
Shut in tool	5.00			4188.00	
HMV	5.00			4193.00	
Safety Joint	3.00			4196.00	
Packer	4.00			4200.00	23.00 Bottom Of Top Packer
Packer	5.00			4205.00	
Stubb	1.00			4206.00	
Recorder	0.00	8370	Inside	4206.00	
Recorder	0.00	8352	Outside	4206.00	
Perforations	11.00			4217.00	
Bullnose	5.00			4222.00	17.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb ,LLC

21-27s-18w Kiowa,KS

PO Box 838
Lawrenceville IL 62439

Unruh D #1-21

Job Ticket: 50843

DST#: 1

ATTN: Jon Christensen

Test Start: 2013.02.23 @ 11:26:42

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:

81000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	MW 16% _m 84% _w	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .16ohms @43deg

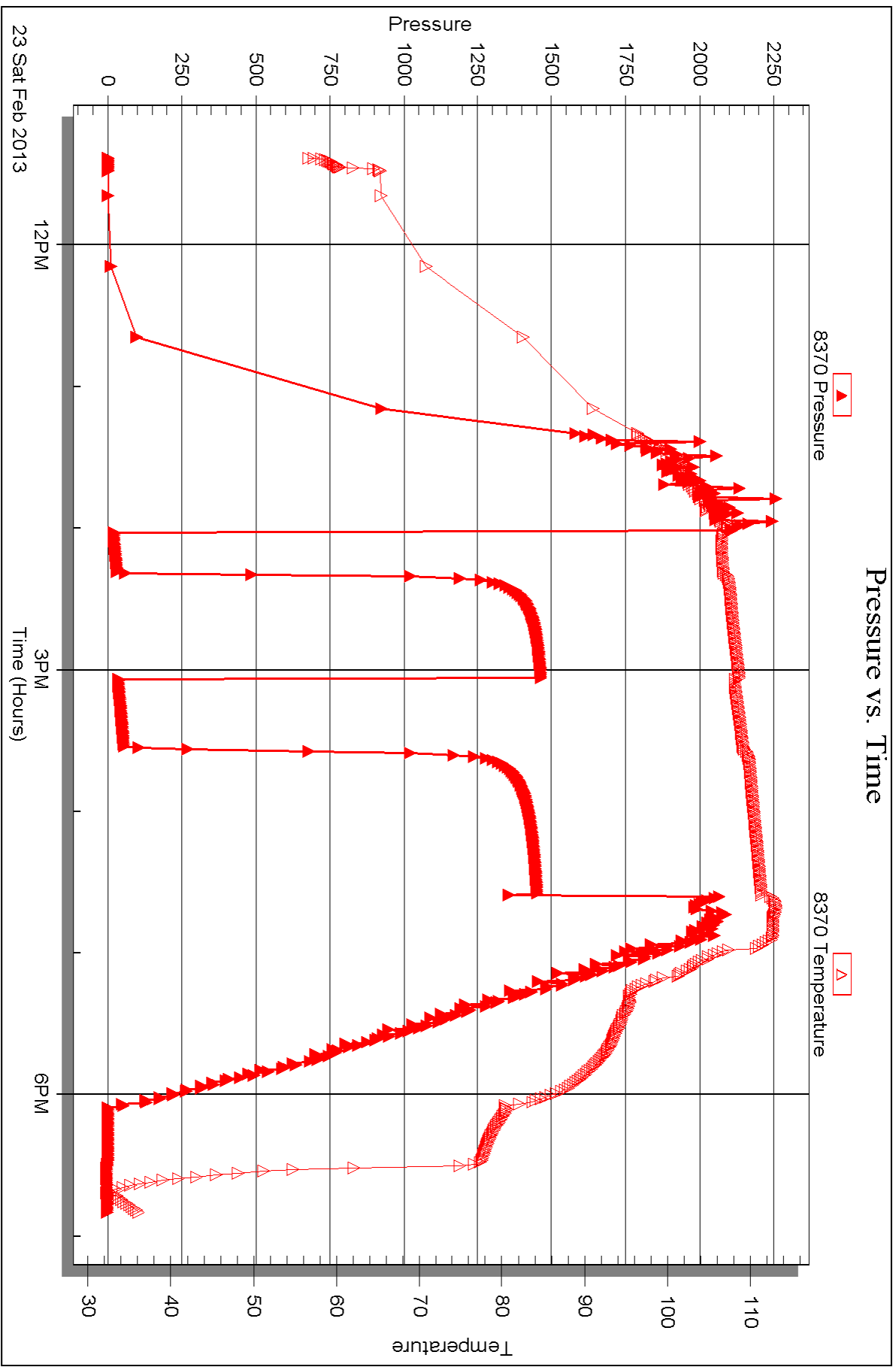
Serial #: 8370

Inside

Herrman L. Loeb, LLC

Unruh D#1-21

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville IL 62439

ATTN: Jon Christensen

Unruh D #1-21

21-27s-18w Kiowa,KS

Start Date: 2013.02.24 @ 11:40:47

End Date: 2013.02.25 @ 01:53:30

Job Ticket #: 50844 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.07 @ 11:18:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

21-27s-18w Kiowa, KS

Unruh D #1-21

Job Ticket: 50844

DST#: 2

Test Start: 2013.02.24 @ 11:40:47

GENERAL INFORMATION:

Formation: **L K.C. " I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:58:30
 Time Test Ended: 01:53:30
 Interval: **4398.00 ft (KB) To 4418.00 ft (KB) (TVD)**
 Total Depth: 4418.00 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: 2202.00 ft (KB)
 2191.00 ft (CF)
 KB to GR/CF: 11.00 ft

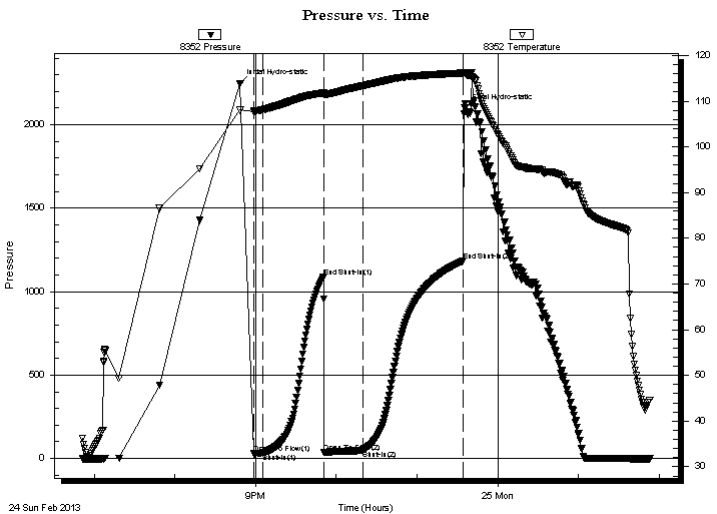
Serial #: 8352

Outside

Press @ Run Depth: 48.66 psig @ 4399.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.24 End Date: 2013.02.25 Last Calib.: 2013.02.24
 Start Time: 18:51:26 End Time: 01:53:30 Time On Btm: 2013.02.24 @ 20:48:30
 Time Off Btm: 2013.02.24 @ 23:35:30

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.43	108.06	Initial Hydro-static
10	29.37	107.78	Open To Flow (1)
17	30.83	108.12	Shut-In(1)
62	1088.30	111.79	End Shut-In(1)
63	36.40	111.46	Open To Flow (2)
91	48.66	113.35	Shut-In(2)
166	1184.96	116.16	End Shut-In(2)
167	2099.83	116.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Mud w o specs /Thin layer of clean	0.27
0.00	oil @top of recovery 110 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

TOOL DIAGRAM

Herman L. Loeb ,LLC

21-27s-18w Kiowa,KS

PO Box 838
Lawrenceville IL 62439

Unruh D #1-21

Job Ticket: 50844

DST#: 2

ATTN: Jon Christensen

Test Start: 2013.02.24 @ 11:40:47

Tool Information

Drill Pipe:	Length: 4174.00 ft	Diameter: 3.80 inches	Volume: 58.55 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	89000.00 lb
			<u>Total Volume: 59.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4398.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

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

C.O. Sub	1.00			4376.00	
Shut in tool	5.00			4381.00	
HMV	5.00			4386.00	
Safety Joint	3.00			4389.00	
Packer	4.00			4393.00	23.00 Bottom Of Top Packer
Packer	5.00			4398.00	
Stubb	1.00			4399.00	
Recorder	0.00	8370	Inside	4399.00	
Recorder	0.00	8352	Outside	4399.00	
Perforations	14.00			4413.00	
Bullnose	5.00			4418.00	20.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb ,LLC

21-27s-18w Kiowa,KS

PO Box 838
Lawrenceville IL 62439

Unruh D #1-21

Job Ticket: 50844

DST#: 2

ATTN: Jon Christensen

Test Start: 2013.02.24 @ 11:40:47

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:

10500 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	Mud w o specs /Thin layer of clean	0.270
0.00	oil @top of recovery 110 ft.of GIP	0.000

Total Length: 55.00 ft Total Volume: 0.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

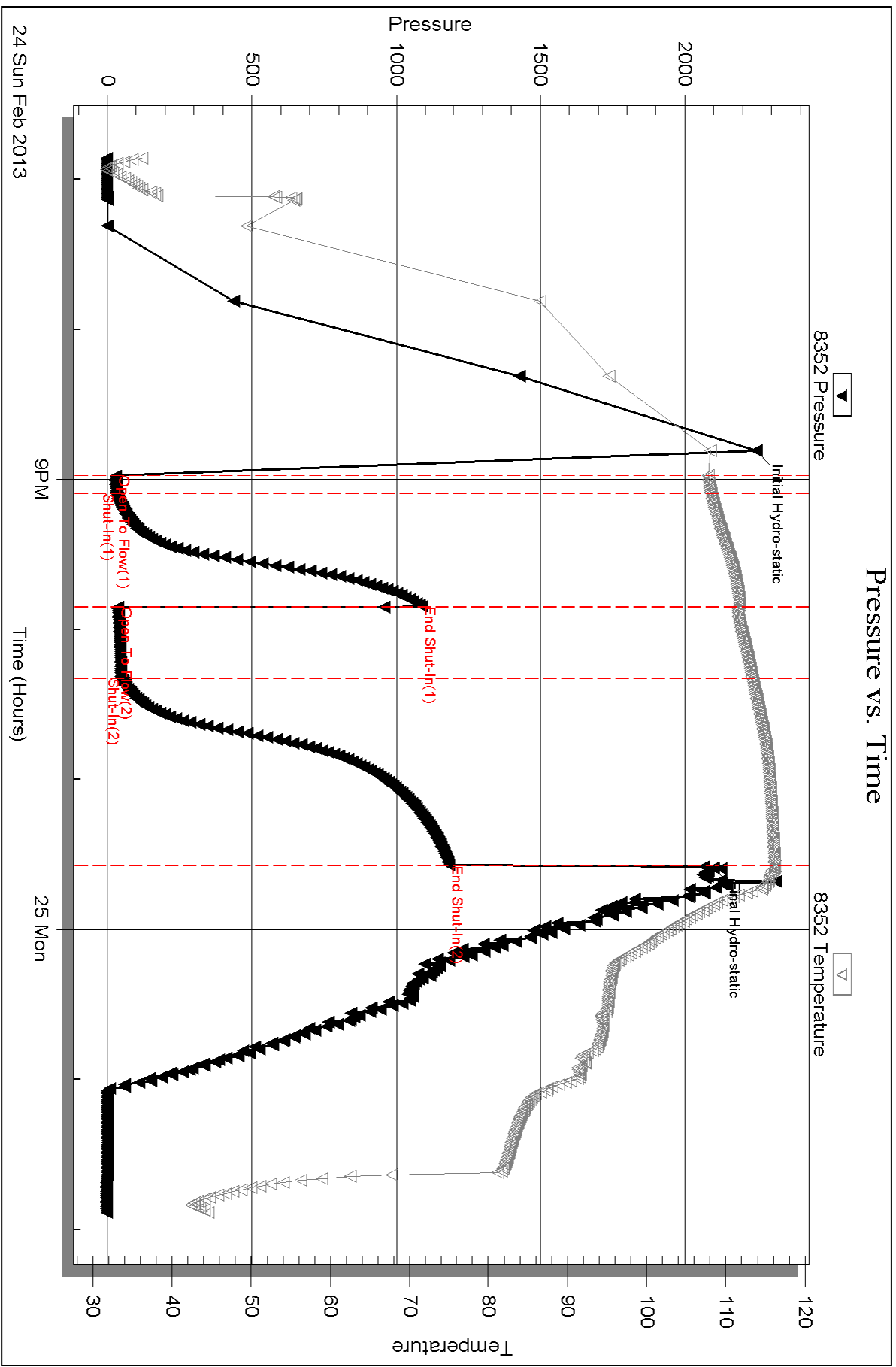
Recovery Comments:

Serial #: 8352

Outside Herman L. Loeb, LLC

Unruh D#1-21

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville IL 62439

ATTN: Jon Christensen

Unruh D #1-21

21-27s-18w Kiowa,KS

Start Date: 2013.02.27 @ 19:36:09

End Date: 2013.02.28 @ 03:47:39

Job Ticket #: 50860 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.07 @ 11:18:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

21-27s-18w Kiowa, KS

Unruh D #1-21

Job Ticket: 50860

DST#: 3

Test Start: 2013.02.27 @ 19:36:09

GENERAL INFORMATION:

Formation: **Miss. Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:28:54

Time Test Ended: 03:47:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Interval: 4739.00 ft (KB) To 4788.00 ft (KB) (TVD)

Reference Elevations: 2202.00 ft (KB)

Total Depth: 4788.00 ft (KB) (TVD)

2191.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8790 Inside

Press @ Run Depth: 30.72 psig @ 4740.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.27

End Date:

2013.02.28

Last Calib.:

2013.02.28

Start Time: 19:36:14

End Time:

03:47:38

Time On Btm:

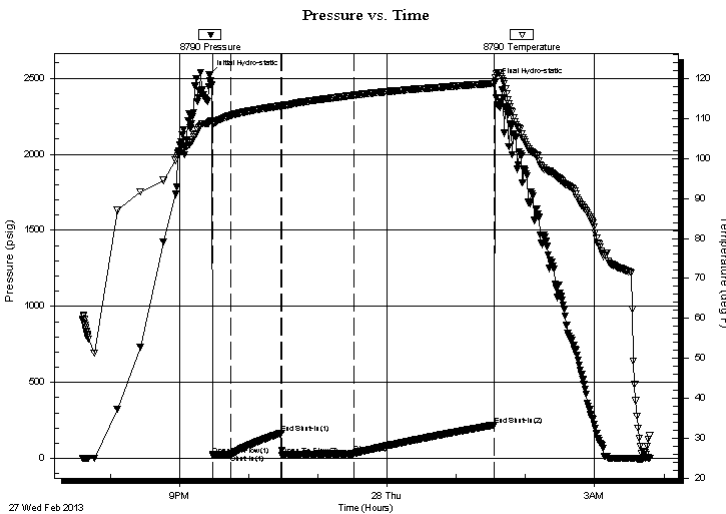
2013.02.27 @ 21:25:54

Time Off Btm:

2013.02.28 @ 01:33:39

TEST COMMENT: IF: Good blow . 1/4" - 10"
 IS: No blow .
 FF: Good blow . 3" - 11"
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2522.02	108.92	Initial Hydro-static
3	19.84	108.79	Open To Flow (1)
19	26.05	110.79	Shut-In(1)
63	166.31	113.17	End Shut-In(1)
64	22.56	113.14	Open To Flow (2)
125	30.72	115.82	Shut-In(2)
247	219.47	118.80	End Shut-In(2)
248	2471.33	120.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Drig mud 100%mud	0.17
340.00	GIP 100%gas	3.12

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

21-27s-18w Kiowa,KS

Unruh D #1-21

Job Ticket: 50860 **DST#: 3**

Test Start: 2013.02.27 @ 19:36:09

GENERAL INFORMATION:

Formation: **Miss. Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:28:54

Time Test Ended: 03:47:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Interval: 4739.00 ft (KB) To 4788.00 ft (KB) (TVD)

Reference Elevations: 2202.00 ft (KB)

Total Depth: 4788.00 ft (KB) (TVD)

2191.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8788 Outside

Press @ RunDepth: psig @ 4740.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.27 End Date: 2013.02.28

Last Calib.: 2013.02.28

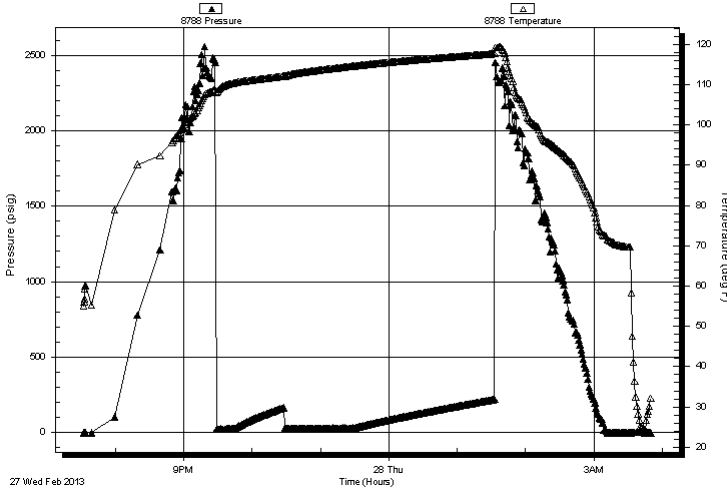
Start Time: 19:32:18 End Time: 03:50:12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Good blow . 1/4" - 10"
 IS: No blow .
 FF: Good blow . 3" - 11"
 FS: No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Drig mud 100% mud	0.17
340.00	GIP 100% gas	3.12

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L. Loeb ,LLC

21-27s-18w Kiowa,KS

PO Box 838
Lawrenceville IL 62439

Unruh D #1-21

Job Ticket: 50860

DST#: 3

ATTN: Jon Christensen

Test Start: 2013.02.27 @ 19:36:09

Tool Information

Drill Pipe:	Length: 4526.00 ft	Diameter: 3.80 inches	Volume: 63.49 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 216.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 87000.00 lb
			<u>Total Volume: 64.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4739.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

C.O. Sub	1.00			4717.00	
Shut in tool	5.00			4722.00	
HMV	5.00			4727.00	
Safety Joint	3.00			4730.00	
Packer	4.00			4734.00	23.00 Bottom Of Top Packer
Packer	5.00			4739.00	
Stubb	1.00			4740.00	
Recorder	0.00	8790	Inside	4740.00	
Recorder	0.00	8788	Outside	4740.00	
Perforations	5.00			4745.00	
Change Over Sub	1.00			4746.00	
Blank Spacing	32.00			4778.00	
Change Over Sub	1.00			4779.00	
Perforations	6.00			4785.00	
Bullnose	3.00			4788.00	49.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb ,LLC

21-27s-18w Kiowa,KS

PO Box 838
Lawrenceville IL 62439

Unruh D #1-21

Job Ticket: 50860

DST#: 3

ATTN: Jon Christensen

Test Start: 2013.02.27 @ 19:36:09

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:

10500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	Drig mud 100%mud	0.172
340.00	GIP 100%gas	3.120

Total Length: 375.00 ft

Total Volume: 3.292 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

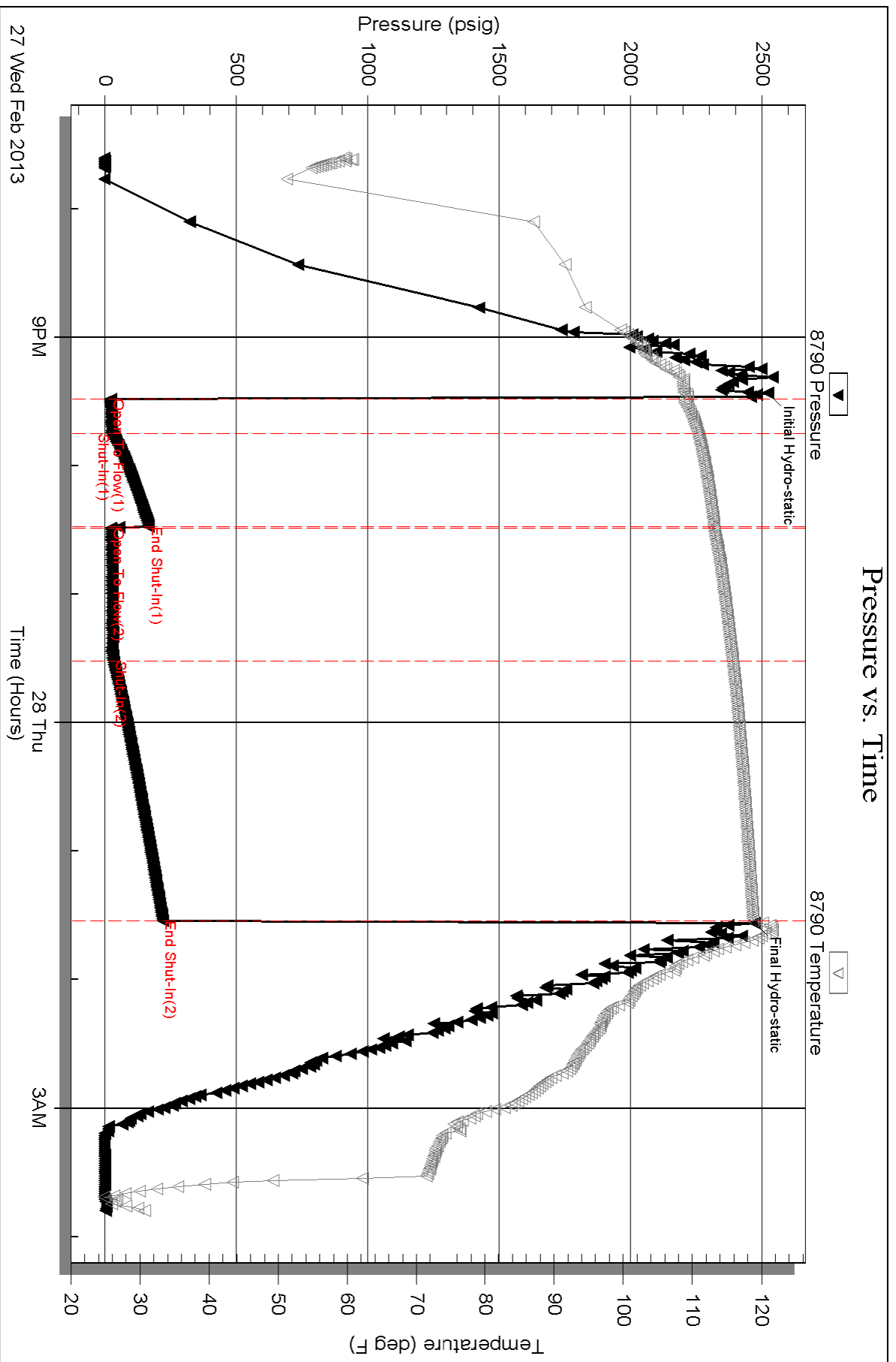
Inside

Herrman L. Loeb, LLC

Unruh D#1-21

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50860

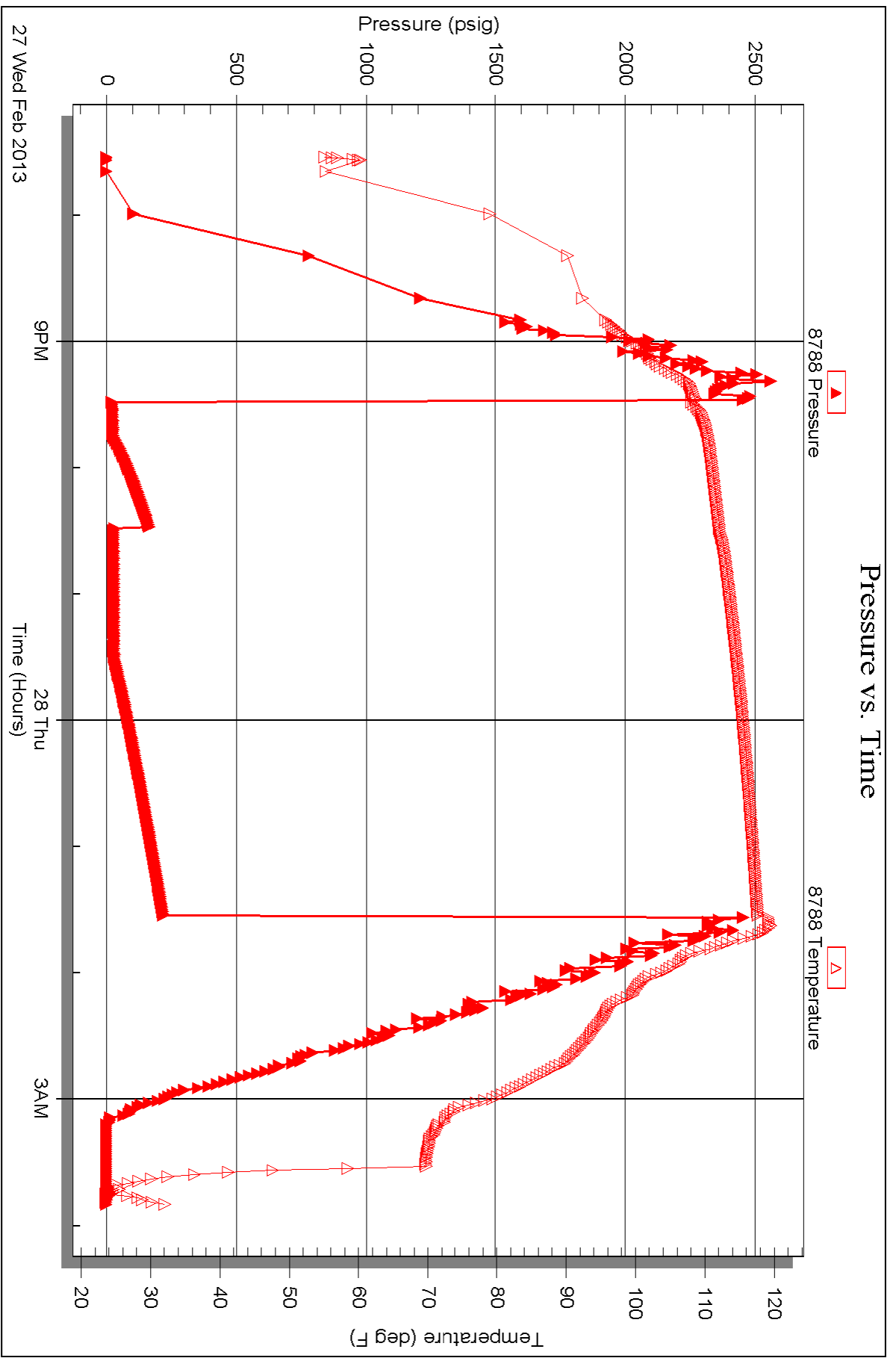
Printed: 2013.03.07 @ 11:18:06

Serial #: 8788

Outside Herran L. Loeb, LLC

Unruh D#1-21

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50860

Printed: 2013.03.07 @ 11:18:06



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50843

4/10

Well Name & No. D. UNRUH # 1-21 Test No. 1 Date 2-23-13
 Company HERMAN L. LOEB, LLC Elevation 2202 KB 2191 GL
 Address P.O. Box 838, LAWRENCEVILLE IL. 62439
 Co. Rep / Geo. JON CHRISTENSEN Rig STERLING DRUG #2
 Location: Sec. 21 Twp. 27^s Rge. 18^w Co. KIOWA State Ks.

Interval Tested 4205 ~ 4222' Zone Tested LANSING A
 Anchor Length 17' Drill Pipe Run 3983' Mud Wt. 9.5
 Top Packer Depth 4200' Drill Collars Run 217' Vis S2
 Bottom Packer Depth 4205' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 4222' Chlorides 10,000 ppm System LCM TR.
 Blow Description IF: Weak blow. 1/2 - 1". ISI: No blow.
FF: Weak blow. 1/4 - 1/2". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>mw</u>		<u>84</u>	<u>16</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 Fluid BHT 116° Gravity N/A API RW .16 @ 43 °F Chlorides 81,000 ppm

(A) Initial Hydrostatic	<u>2115</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1004</u>
(B) First Initial Flow	<u>18</u>	<input type="checkbox"/> Jars		T-Started	<u>1126</u>
(C) First Final Flow	<u>30</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1401</u>
(D) Initial Shut-In	<u>1464</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1634</u>
(E) Second Initial Flow	<u>33</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>1852</u>
(F) Second Final Flow	<u>54</u>	<input checked="" type="checkbox"/> Mileage	<u>80</u> <u>124</u>	Comments	
(G) Final Shut-In	<u>1451</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2065</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>15</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		Total	<u>1449</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1449</u>		

Approved By [Signature]

Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50844

4/10

Well Name & No. D. UNRUH #1-21 Test No. 2 Date 2-24-13
 Company HERMAN L. LOEB, LLC Elevation 2202 KB 2191 GL
 Address P.O. Box 838, LAWRENCEVILLE IL. 62439
 Co. Rep / Geo. JON CHRISTENSEN Rig STEERING DRILL #2
 Location: Sec. 21 Twp. 27S Rge. 18W Co. Knowa State Ks

Interval Tested 4398 - 4418' Zone Tested LKC. "I"
 Anchor Length 20' Drill Pipe Run 4174' Mud Wt. 9.5
 Top Packer Depth 4393' Drill Collars Run 217 Vis 61
 Bottom Packer Depth 4398' Wt. Pipe Run 0 WL 10.4 cc
 Total Depth 4418' Chlorides 10,500 ppm System LCM 0
 Blow Description IF: Weak below. 1/2 - 3". FSI: No below.

FF: Weak below. 1-4". FSI: No below.

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>Gas in pipe</u>				
<u>55</u>	<u>Mud w/o spec.</u>				
	<u>Thin layer of clean oil</u>				
	<u>@ top of recovery</u>				

Rec Total 55 BHT 116° Gravity N/A API RW N/C @ ~ ° F Chlorides 10,500 ppm
 (A) Initial Hydrostatic 2246 Test 1250 T-On Location 1115
 (B) First Initial Flow 29 Jars _____ T-Started 1140
 (C) First Final Flow 31 Safety Joint 75 T-Open 1340
 (D) Initial Shut-In 1088 Circ Sub _____ T-Pulled 1625
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 1845
 (F) Second Final Flow 49 Mileage 80 124 Comments _____
 (G) Final Shut-In 1185 Sampler _____
 (H) Final Hydrostatic 2100 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1449 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 75
 Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50860

4/10

Well Name & No. D. Unruh #1-21 Test No. 3 Date 2-27-13
 Company Herman Li Loeb, LLC Elevation 2202 KB 2191 GL
 Address P.O. Box 838 Lawrenceville, IL. 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling #2
 Location: Sec. 21 Twp. 27s. Rge. 18w. Co. Kiowa State KS

Interval Tested 4739-4788 Zone Tested Miss. Chert
 Anchor Length 49 Drill Pipe Run 4526 Mud Wt. 9.3
 Top Packer Depth 4734 Drill Collars Run 216 Vis 58
 Bottom Packer Depth 4739 Wt. Pipe Run 8 WL 10.4
 Total Depth 4788 Chlorides 10,500 ppm System LCM 3#
 Blow Description IF: Good blow, 1/4" - 10" ISI: No blow

FF: Good blow, 3" - 11"

FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>340'</u>	<u>GIP</u>	<u>100</u>			
<u>35'</u>	<u>Dry mud</u>			<u>100</u>	

Rec Total 375 BHT 120 Gravity n/c API RW n/c @ n/c °F Chlorides 10500 ppm
 (A) Initial Hydrostatic 2522 Test 1250 T-On Location 1845
 (B) First Initial Flow 20 Jars T-Started 1936
 (C) First Final Flow 26 Safety Joint 75 T-Open 2129
 (D) Initial Shut-In 166 Circ Sub T-Pulled 0126
 (E) Second Initial Flow 23 Hourly Standby T-Out 0348
 (F) Second Final Flow 31 Mileage 124 Comments
 (G) Final Shut-In 219 Sampler
 (H) Final Hydrostatic 2471 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 15 Extra Recorder Sub Total 0
 Initial Shut-In 45 Day Standby Total 1449
 Final Flow 60 Accessibility MP/DST Disc't
 Final Shut-In 120 Sub Total 1449

Approved By [Signature]

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or lost property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



6076
771 UNRUH D
6438

PAGE 1 of 1	CUST NO 1007589	INVOICE DATE 02/27/2013
INVOICE NUMBER 1718 - 91128471		

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

J LEASE NAME Unruh D 1-21
 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
40568256	19905		Net - 30 days	03/29/2013
For Service Dates: 02/19/2013 to 02/19/2013				
0040568256				
171808053A Cement-New Well Casing/Pi 02/19/2013				
Cement 8 5/8 Surface				
BETWEEN 8 5/8" TO 8 5/8" SEND OTHER CORRESPONDENCE TO:				
A-Con Blend Common	175.00	EA	13.50	2,362.35 T
Common Cement	175.00	EA	12.00	2,099.86 T
Celloflake	88.00	EA	2.77	244.18 T
Calcium Chloride	825.00	EA	0.79	649.64 T
"Top Rubber Cmt Plug, 8 5/8" "	1.00	EA	168.74	168.74
"8 5/8" Guide Shoe (Red)"	1.00	EA	412.47	412.47
"8 5/8" Basket (Blue)"	1.00	EA	236.23	236.23
Flapper Type Inst Float Valve 8 5/8" (Blu	1.00	EA	209.99	209.99
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.19	111.56
Heavy Equipment Mileage	70.00	MI	5.25	367.48
"Proppant & Bulk Del. Chgs., per ton mil	578.00	EA	1.20	693.55
Depth Charge; 501'-1000'	1.00	EA	899.94	899.94
Blending & Mixing Service Charge	350.00	BAG	1.05	367.48
Plug Container Util. Chg:	1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24
PLEASE REMIT TO: SEND OTHER CORRESPONDENCE TO:			SUB TOTAL	9,142.20
BASIC ENERGY SERVICES, LP, 801 CHERRY ST., STE 2100			TAX	390.99
PO BOX 841903 DALLAS, TX 75284-1903			INVOICE TOTAL	9,533.19



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 00053 A

21-275-18W

DATE _____ TICKET NO. _____

DATE OF JOB 2-19-13 DISTRICT Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Herman L. Loeb, LLC		LEASE Unruh D' WELL NO. 1-21							
ADDRESS		COUNTY kiowa STATE Kansas							
CITY STATE		SERVICE CREW Messiah M. Mattal S Young							
AUTHORIZED BY		JOB TYPE: CNW - Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	.5						2-18-13	PM	10:2
						ARRIVED AT JOB	2-19-13	AM	1:30
19,903	.5					START OPERATION		PM	4:45
						FINISH OPERATION		PM	5:15
77,686	.5					RELEASED	2-19-13	AM	5:30
						MILES FROM STATION TO WELL			35

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF 100C	Common Cement	skt	175	\$	2,800 00
CF 101	Acry Blend Cement	skt	175	\$	3,150 00
CC 102	Cellulose	Lb	88	\$	325 60
CC 109	Calcium Chloride	Lb	825	\$	866 25
CF 105	Top Rubber Plug, 8 5/8"	ea	1	\$	225 00
CF 253203	Regular Guide Shoe, 8 5/8"	ea	1	\$	550 00
CF 1453	Insert Float Valve, 8 5/8"	ea	1	\$	280 00
CF 1903	Basket, 8 5/8"	ea	1	\$	315 00
E 100	Pickup Mileage	mi	35	\$	148 75
E 101	Heavy Equipment Mileage	mi	70	\$	490 00
E 113	Bulk Delivery	tm	578	\$	924 00
CE 201	Cement Pump: 50 Feet To 1,000 Feet	hrs	4	\$	1,200 00
CE 240	Blending and Mixing Service	skt	350	\$	490 00
CE 504	Plug Container	Job	1	\$	250 00
S 003	Service Supervisor	hrs	8	\$	175 00

SUB TOTAL
166 \$ 9,142 20

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

Customer Herman L. Loeb, LLC.	Lease No.	Date 2-19-13
Lease Unruh "D"	Well # 1-21	
Field Order # 8,053	Station Pratt, Kansas	Casing 8 5/8" 23Lb
Type Job C.N.W. - Surface	Depth 566 Feet	County Kiowa
	Formation	State Kansas
		Legal Description 21-27S-18W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 8 5/8" 23Lb	Tubing Size 1 1/2" 11.3Lb	Shots/Ft	175	Sacks	175	RATE	PRESS	ISIP
Depth 566 Feet	Depth	From	To	CEMENT	12Lb/Gal.	4.49 Gal/st.	2.47 cu. ft./st.	5 Min.
Volume 36.2 Bbl	Volume	From	To	CEMENT	15.6Lb/Gal.	5.23 Gal/st.	1.20 cu. ft./st.	10 Min.
Max Press 300 PSI	Max Press	From	To	CEMENT				15 Min.
Well Connection Plug Connection	Annulus Vol. liner	From	To	CEMENT				Annulus Pressure
Plug Depth 524 Feet	Packer Depth	From	To	Flush	33.5 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative: Evaldo Station Manager: David Scott Treater: Clarence R. Messick

Service Units	37,216	19,903	19,905	77,686	73,768				
Driver Names	Messick	Mattal	Young						

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00					Trucks on location and hold safety meeting.
3:00					Sterling Drilling start to run 13 Joints new 23Lb/Ft. 8 5/8" casing.
4:30					Casing in well. Circulate for 5 minutes
4:40	300			5	Start Fresh water Pre-Flush.
	300		10	6	Start mixing 175 sacks A-con Blend cement.
	175		87	5	Start mixing 175 sacks Premium Plus cement.
	-0-		124		Stop pumping. Shut in well. Release Top Rubber Plug. Open well.
4:58	100			5	Start Fresh water Displacement.
5:05	300.		33.5		Plug down. Circulated 15 sacks cement to the pit.
					Open release. Insert held.
					Wash up pump truck.
5:45					Job Complete.
					Thank You.
					Clarence, Mike, Steve



6076
771 Unruh D
6438

PAGE	CUST NO	INVOICE DATE
1 of 1	1007589	03/04/2013
INVOICE NUMBER		
1718 - 91133157		

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 Unruh D 1-31
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40570504	19905		Net 30 days	04/03/2013

For Service Dates: 03/01/2013 to 03/01/2013

0040570504

171808056A Cement-New Well, Casing/Pi 03/01/2013
 Cement 5 1/2" Longstring

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
50/50 POZ	250.00	EA	8.25	2,062.37
Celloflake	63.00	EA	2.77	174.82
Gypsum	1,050.00	EA	0.56	590.59
FLA-322	105.00	EA	5.62	590.59
Gilsonite	1,500.00	EA	0.50	753.71
Mud Flush	1,000.00	EA	0.64	644.97
KCL Potassium Chloride	566.00	EA	1.12	636.72
Claymax KCL Substitute	5.00	EA	26.25	131.24
"Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	299.98	299.98
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	269.99	269.99
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	82.50	989.95
"5 1/2" Basket (Blue)"	1.00	EA	217.49	217.49
"Cement Scratchers, Cable Type, 5 1/2" "	6.00	EA	56.25	337.48
"Unit Mileage Chg (PU, cars one-way)"	35.00	MI	3.19	111.56
Heavy Equipment Mileage	70.00	MI	5.25	367.48
"Proppant & Bulk Del. Chgs., per ton mil	368.00	EA	1.20	441.58
Depth Charge; 4001'-5000'	1.00	EA	1,889.90	1,889.90
Blending & Mixing Service Charge	250.00	BAG	1.05	262.49
Plug Container Util. Chg.	1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,091.64
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	407.71
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,499.35
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

BASIC

ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 00355 A

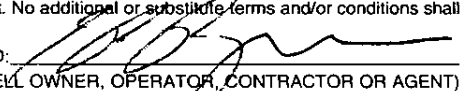
31-275-18W

DATE _____ TICKET NO. _____

DATE OF JOB: 31-13		DISTRICT: Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Herman L. Loeb, LLC				LEASE: Unruh 'D'				WELL NO.: 1-31	
ADDRESS:				COUNTY: Kiowa		STATE: Kansas			
CITY:				STATE:		SERVICE CREW: Messick, M McGraw, A Gibson			
AUTHORIZED BY:				JOB TYPE: C N W Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME	
35216	2 1/2						31-13	8:00 AM	
						ARRIVED AT JOB		10:30 AM	
19903	2 1/2	19905	2 1/2			START OPERATION		2:30 AM	
						FINISH OPERATION		5:00 AM	
19959	2 1/2	19960	2 1/2			RELEASED	3-1-13	6:00 AM	
						MILES FROM STATION TO WELL		35	

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


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

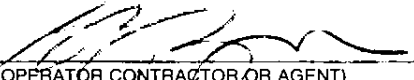
SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P CP 104	50/50 Poz Cement	sh	200	\$	2,200.00
I CP 104	50/50 Poz Cement	sh	50	\$	550.00
P CC 102	Cellflake	Lb	63	\$	233.10
P CC 113	Gypsum	Lb	1,050	\$	787.50
P CC 129	FLA 322 Fluid Loss	Lb	105	\$	787.50
P CC 201	Gilsonite	Lb	1,500	\$	1,005.00
P C 700	HCL Potassium Chloride	Lb	566	\$	849.00
P CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1	\$	400.00
P CF 1251	Auto Fill Float Shoe, 5 1/2"	ea	1	\$	360.00
P CF 1651	Turbolizer, 5 1/2"	ea	12	\$	1,320.00
P CF 1901	Packer, 5 1/2"	ea	1	\$	290.00
P CF 2001	Reciprocating Scratchers, 5 1/2"	ea	6	\$	450.00
P C 704	Claymax	Gal	5	\$	175.00
P CC 151	Mud Flush	Gal	1,000	\$	860.00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: 

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

FIELD SERVICE ORDER NO. _____



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 08056 A

31-275-18W

DATE: _____ TICKET NO: _____

DATE OF JOB: 3-1-13	DISTRICT: Pratt, Kansas	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO. _____			
CUSTOMER: Herman L. Loeb, LLC	LEASE: Unruh D	WELL NO: 31								
ADDRESS: _____	COUNTY: Howard	STATE: Kansas								
CITY: _____	STATE: _____	SERVICE CREW: M. M. Green, A. Gibson								
AUTHORIZED BY: _____	JOB TYPE: C.M.W. Leasing									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	CAM	PM	TIME
37 all	2 1/2						3-1-13			
19903 19905	2 1/2									
19951 19960	2 1/2									
						ARRIVED AT JOB				
						START OPERATION			AM	2:30
						FINISH OPERATION			AM	5:00
						RELEASED	3-1-13		AM	6:00
						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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF 104	50/50 P2 Cement	sh	200		\$ 2,200.00
CF 104	50/50 P2 Cement	sh	50		\$ 550.00
CC 102	Cell Plate	LL	63		\$ 233.10
CC 113	Gypsum	LL	1050		\$ 787.50
CC 124	FLA 322 Fluid Loss	LL	105		\$ 787.50
CC 201	Gels. nite	LL	1500		\$ 1,005.00
C 700	HCL Potassium Chloride	LL	566		\$ 849.00
CF 607	40# 5/8" Down Plug/Baffle 5/8"	ea	1		\$ 400.00
CF 1251	40# 5/8" Plug Shoe 5/8"	ea	1		\$ 360.00
CF 1651	Turbolizer 5/8"	ea	12		\$ 1,320.00
CF 1901	Penet. 5/8"	ea	1		\$ 290.00
CF 2001	Accumulating Suction 5/8"	ea	6		\$ 450.00
C 704	Clay max	gal	5		\$ 175.00
C 151	Mud Flush	gal	1000		\$ 860.00

SUB TOTAL

DLS

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: _____ THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 ~~08057~~ A
Continuation

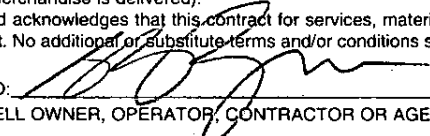
31-275-18W

DATE _____ TICKET NO. 8056

DATE OF JOB: 3-1-13		DISTRICT: Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Herman L. Loeb, LLC.				LEASE: Unruh "D"				WELL NO: 1-31	
ADDRESS:				COUNTY: Kiowa		STATE: Kansas			
CITY:		STATE:		SERVICE CREW: C. Messick, M. McGraw, A. Gibson					
AUTHORIZED BY:				JOB TYPE: C.N.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
						ARRIVED AT JOB		AM	PM
						START OPERATION		AM	PM
						FINISH OPERATION		AM	PM
						RELEASED		AM	PM
						MILES FROM STATION TO WELL			

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


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

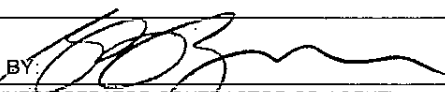
SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P E 100	Pickup Mileage	mi	35	\$	148 75
P E 101	Heavy Equipment Mileage	mi	70	\$	490 00
P E 113	Built Delivery	tm	368	\$	588 00
P CE 205	Cement Pump: 4,000 Feet To 5,000 Feet	hrs	4	\$	2,520 00
P CE 240	Blending and Mixing Service	shr	250	\$	350 00
P CE 504	Plug Container	job	1	\$	250 00
IP 5003	Service Supervisor	hrs	8	\$	175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		DLS \$ 11,091 64
SERVICE & EQUIPMENT	% TAX ON \$	
MATERIALS	% TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: 

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

FIELD SERVICE ORDER NO.



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 00057 A

Continuation

31-275-18W

DATE: _____ TICKET NO. 8108

DATE OF JOB: 3-1-13	DISTRICT: Pratt Kansas	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD. <input type="checkbox"/>	INJ. <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER: Herman L. Loeb LLC		LEASE: Unruh D					WELL NO.: 31	
ADDRESS:		COUNTY: Kiowa			STATE: Kansas			
CITY: _____ STATE: _____		SERVICE CREW: M... M... A...						
AUTHORIZED BY:		JOB TYPE: NW Longstring						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME	
						ARRIVED AT JOB	AM PM	
						START OPERATION	AM PM	
						FINISH OPERATION	AM PM	
						RELEASED	AM PM	
						MILES FROM STATION TO WELL		

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Pickup Mileage	mi	35	\$	148 75
E 101	Heavy Equipment Mileage	mi	70	\$	490 00
E 113	Bulk Delivery	tm	362	\$	588 00
CE 209	Service of Pump 400 Feet To 500 Feet	hrs	4	\$	2,520 00
CE 240	Blending and Mixing Service	hr	250	\$	350 00
CE 504	Phys Continer	Std	1	\$	250 00
E 3	\$	175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		265 \$ 11,091 64
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer Herman L. Loeb, L.L.C.	Lease No. 2	Date 3-1-13
Lease Unruh "D"	Well # 1-B1	
Field Order # 8056	Station Pratt, Kansas	Casing 5 1/2
		Depth 15.5 Lb./Ft.
		County Kiowa
		State Kansas
Type Job C.N.W. - Longstring	Formation	Legal Description 201-275-18W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 4 1/2	Shots/Ft 200	sacks 50/50 Poz with	28 Gel.	RATE 28	PRESS 28	ISIP Loss, 58 kCL
Depth 4,866 Feet	Depth	From .25L	to/sk. cell plate, 6 Lb./s	Max Gilsonite			5 Min.
Volume 115.8 Bbl.	Volume	From	To 14 Lb./Gal., 5.43 Gal./s	Min 1.35 C.U.F./sk.			10 Min.
Max Press 1,500 P.S.I.	Max Press	From	To	Avg			15 Min.
Well Connection Plug container	Annulus Vol.	From	50 sacks of above blend to Plug Rat	HMP Used (30 sacks)	ard Mouse	Annulus Pressure 20 sacks/holes	Total Load
Plug Depth 4,840.5 Feet	Packer Depth	From	To	Flush 115.3 Bbl. 28 kCL	Gas Volume		

Customer Representative George Payne	Station Manager David Scott	Treater Clarence R. Messich
---	--------------------------------	--------------------------------

Service Units	37,216	19,903	19,905	19,959	19,860
Driver Names	Messich	Mc Graw	Gibson		

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30					Trucks on location and hold safety meeting.
11:30					Sterling Drilling start to run Auto Fill Float Shoe, Shoe Joint with Baffle screwed into collar and a total of 116 Joints new 15.5 Lb./Ft. 5 1/2 casing. A Basket was installed above Collar # 20. A Turbalizer was installed on Collars # 1, 2, 3, 4, 8, 10, 11, 12, 16, 20, 24 and # 28
2:30					Casing in well. Circulate and Rotate for Recipricate for 1 hour.
3:30		2,500			Shut in well. Pressure Test. Open well.
	300			6	Start Fresh water pre-Flush.
			20	6	Start Mud Flush.
			44	6	Start Fresh Water Spacer.
3:55	300		64	5	Start mixing 200 sacks 50/50 Poz cement.
	-0-		112		Stop pumping. Shut in well. Wash pump and lines.
					Release Latch Down Plug. Open well.
4:29	100			6.5	Start 28 kCL Displacement.
			83	5	Start to lift cement.
4:48	1,000		115.3		Plug down.
	1,500				Pressure up
					Release Pressure. Float Shoe held.
	-0-		7.5	3	Plug Rat and Mouse holes.
					Wash up pump trucks
6:00					Job Complete.
					Thank You
					Clarence, Mitte, Aaron

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 10, 2013

Jesse Middagh
HERMAN L. LOEB, LLC
PO BOX 838
LAWRENCEVILLE, IL 62439

Re: ACO1
API 15-097-21750-00-00
UNRUH 'D' 1-21
SW/4 Sec.21-27S-18W
Kiowa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jesse Middagh