

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	KOGER 3
Doc ID	1312547

Tops

Name	Top	Datum
Chase	2573	-292
Heebner Shale	4189	-1908
Base KC	4812	-2531
Marmaton	4860	-2579
Altamont	4870	-2589
Miss Chert	5020	-2739
Kinderhook	5308	-3027
Viola	5318	-3037

LITHOLOGY STRIP LOG

WellSight Systems

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

Measured Depth Log

Well Name: Koger #3

Well Id:

Location: 890' FNL & 1430' FEL, Sec. 1-T30S-R19W, Kiowa Co., KS.

License Number: 15-097-21823-00-00

Region: Alford Field

Spud Date: 4/6/2016

Drilling Completed: 4/14/2016

Surface Coordinates: 890' FNL & 1430' FEL, Sec. 1-T30S-R19W

Bottom Hole Same as Above

Coordinates:

Ground Elevation (ft): 2270'

K.B. Elevation (ft): 2281'

Logged Interval (ft): 3900' To: 5357'

Total Depth (ft): 5357'

Formation: Viola at Total Depth

Type of Drilling Fluid: Freshwater/Gel to 3307'; Chemical Gel 3307' to 5357'

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(Altamont Lmst.) 4847' - 4881'(Corrected Depths to Log) Test Times 15"-45"-30"-90" IFP Strong Blow BOB/30 Sec. Gas to Surface in 3 Min., FFP Gas to Surface throughout Gauged 2.724 MMCFG/30" of FFP, ISI and FSI Blow would not Bleed off; REC: NO FLUID; IFP 563-640#, ISIP 1617#, FFP 561-561#, FSIP 1607#, IHP 2505#, FHP 2413#, BHT 115 Deg. F.

DST #2(Miss. Chert/Dolomite) 4993' - 5037'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/30 Sec., Gas to Surface in 6 Min., FFP Gas to Surface throughout, Gauged 434 MCFG. decreased to 366 MCFG/45", Blow would not bleed off; REC: 125' GCM(5%G, 95%M), no oil or water; IFP 251-275#, ISIP 684#, FFP 225-126#, FSIP 604#, IHP 2647#, FHP 2424#, BHT 119 Deg. F.

DST #3(Miss. Dolomite) 5052' - 5074'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Strong Blow BOB/3 Min, FFP Strong Blow BOB/30 Sec.,. no Gas to Surface, Weak surface Blowback on SI's; REC: 1978' Gas in Pipe, 3' GCM(2%G, 98%M), 127' OCMW(5%O, 40%M, 55%W), 62' GCMSW(5%G, 20%M, 75%W) CI 85,000, Mud 4500; IFP 35-57#, ISIP 1148#, FFP 53-89#, FSIP 1070#, IHP 2498#, FHP 2468#, BHT 120 Deg. F.

Serial #: 8525

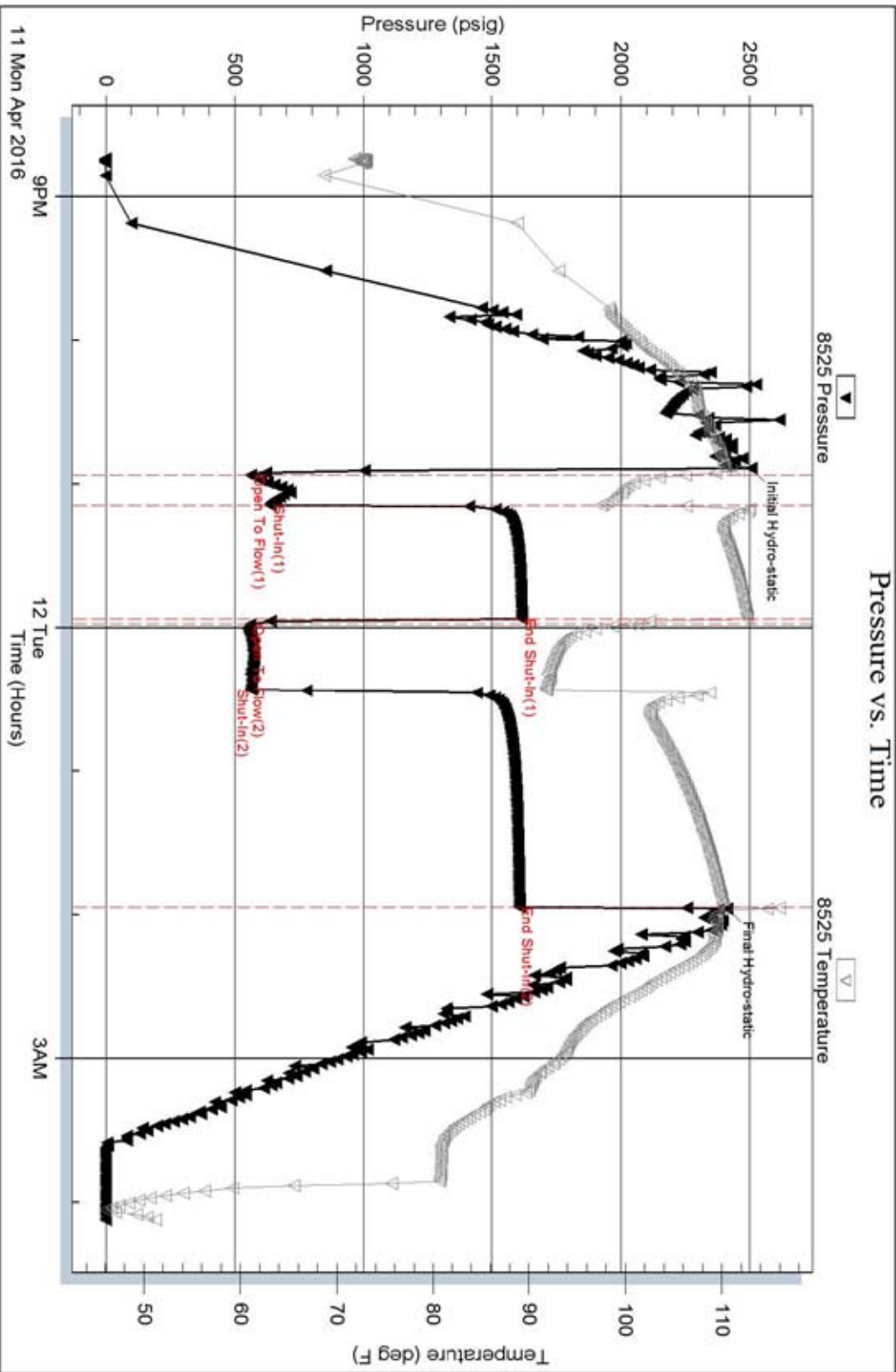
Inside

Herran L Loeb LLC

Koger 3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57985

Printed: 2016.04.12 @ 07:23:35

Serial #: 8525

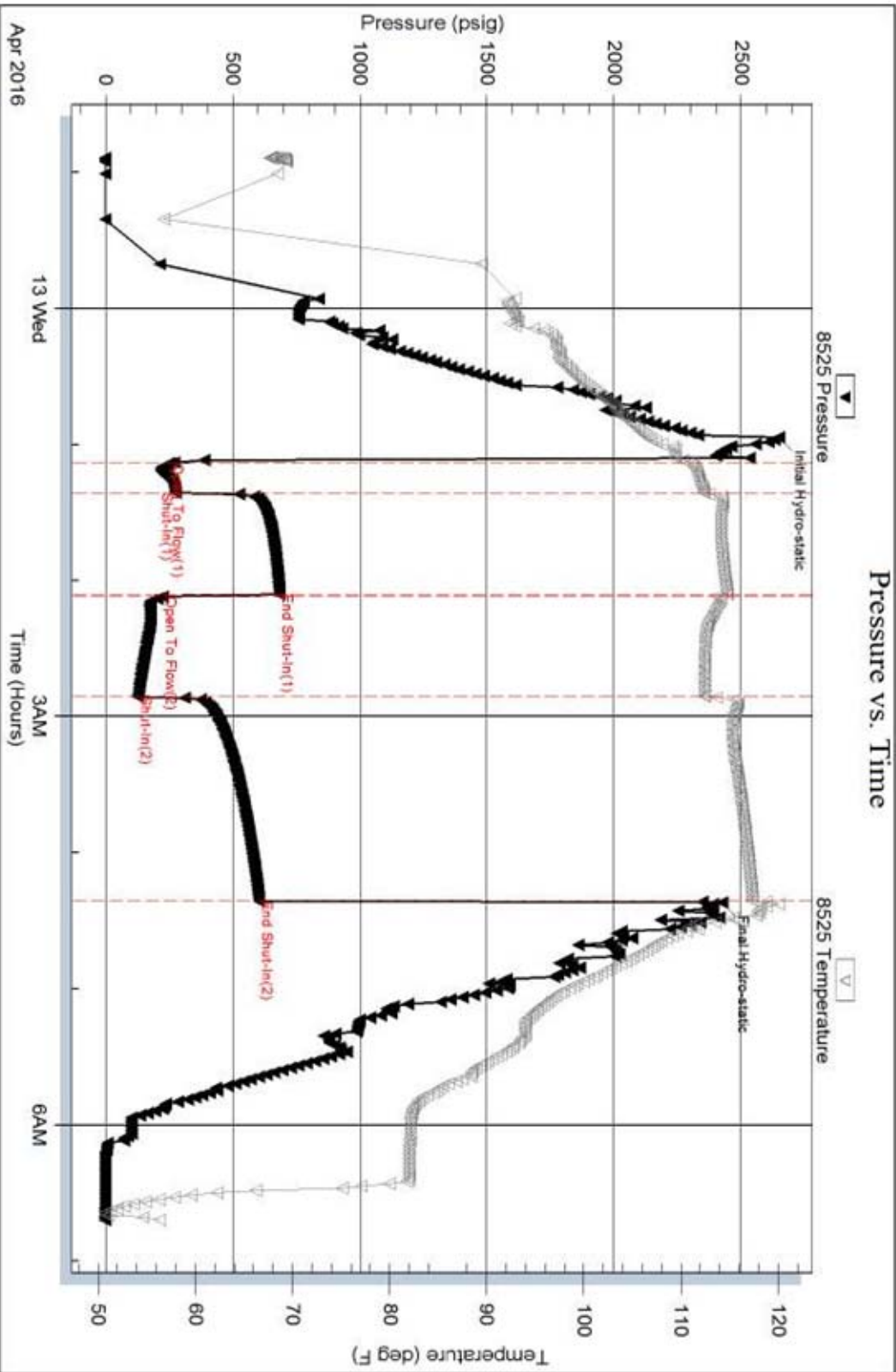
Inside

Herrman L Loeb LLC

Koger 3

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57996

Printed: 2016.04.13 @ 08:35:39

Serial #: 8525

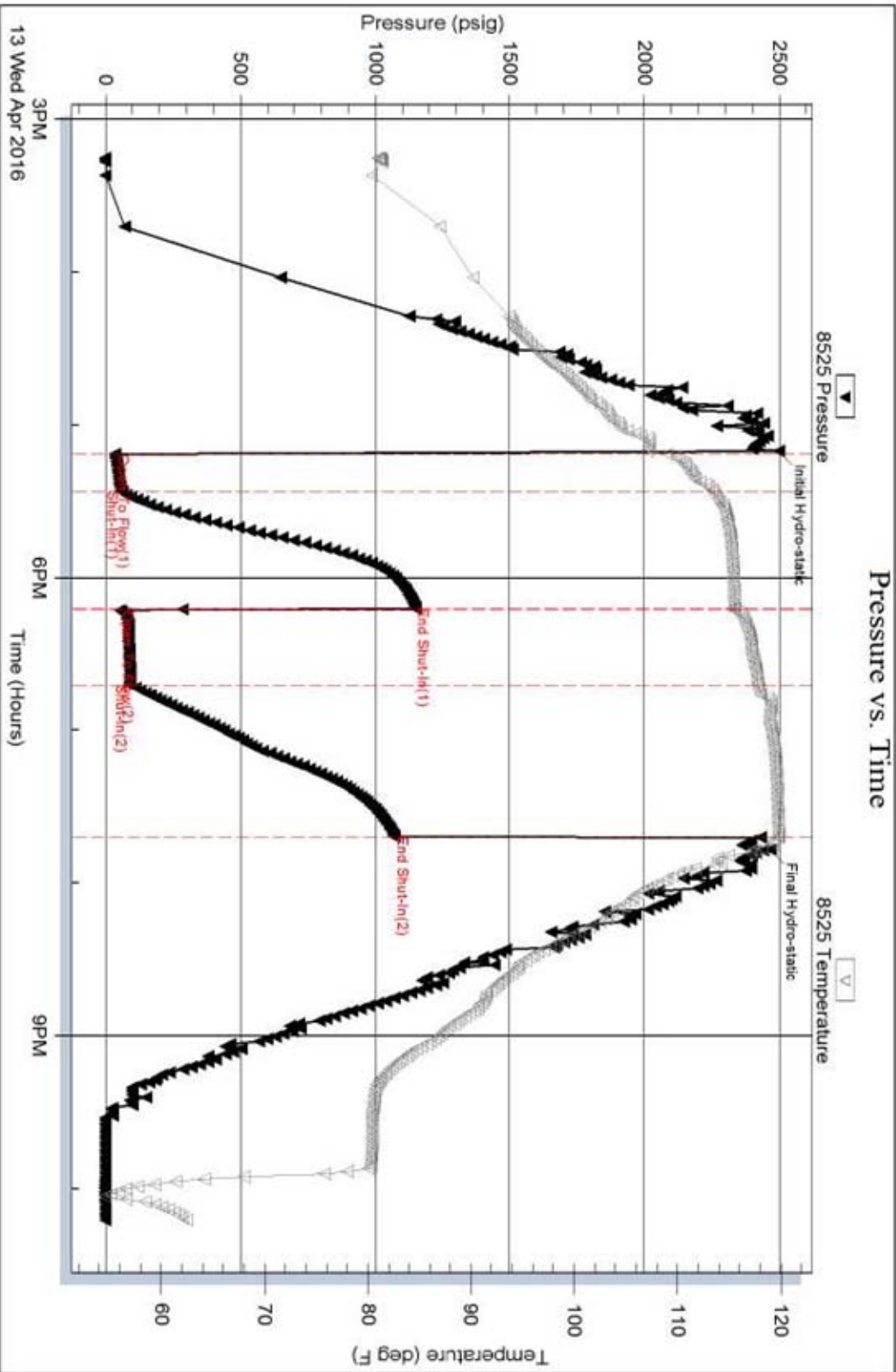
Inside

Herran L Loeb LLC

Koger 3

DST Test Number: 3

Pressure vs. Time



13 Wed Apr 2016

6PM

9PM

Triobite Testing, Inc

Ref. No: 57987

Printed: 2016.04.14 @ 07:19:38

Comments

4/5/16 MIRU Sterling Drilling Co. Rig #4; 4/6/16, Spud at 5:00 AM., Drilling at 43'; 4/7/16 Drilling at 664'; 4/8/16 Drilling at 2447'; 4/9/16 Drilling at 3830'; 4/10/16 Drilling at 4400'; 4/11/16 Drilling at 4790'; 4/12/16 TD. 4882' - TIH after DST #1; 4/13/16 TD. 5038' - Prep. to TIH after DST #2; 4/14/16 Drilling at 5190'; 4/15/16 RTD. 5357', LTD. 5356' - Logging(Halliburton) - Set 5 1/2" Production Casing.

Set new 8 5/8"(23#) Surface Casing at 660' KB. with 350 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 7:45 PM. on 4/6/16.

Set new and used 5 1/2"(15.5#) Production Casing at 5345' KB. with 220 sacks of "Loeb Blend" cement(Basic Energy Services). PD. at 11:30 PM. on 4/15/16.

Surveys: 1.0 Deg. at 664'(Surface Casing); 0.50 Deg. at 4103'(Bit Trip); 0.50 Deg. at 4882'(DST #1); 0.50 Deg. at 5357' RTD.

No Pipe Strap was taken. Windy conditions prevailed while drilling the Koger #3.


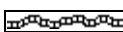
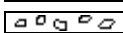
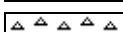
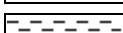
After review of the Halliburton Logs, DST data, and positive indications of commercially recoverable amounts of hydrocarbons, the operator elected to set 5 1/2" Production Casing for completion in the Marmaton and Mississippian intervals.






NOTE: The Lansing 'B' zone should be perforated and tested prior to abandonment of the well. A 20 Unit gas kick with oil shows were noted.



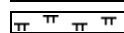

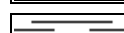
LOG TOPS: Chase 2573(-292), Stotler Lmst. 3528(-1247), Heebner Shale 4189(-1908), Toronto 4201(-1920), Brown Lmst. 4375(-2094), Lansing 'A' 4390(-2109), Lansing 'B' 4414(-2133), Stark Shale 4720(-2439), Hertha 4780(-2499), Base Kansas City 4812(-2531), Marmaton 4860(-2579), Altamont 4870(-2589), Cherokee Shale 4946(-2665), Mississippi Chert 5020(-2739), Kinderhook 5308(-3027), Viola 5318(-3037).

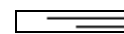
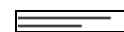


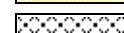
NOTE: This log was shifted upward by 1' to 2' for correlation purposes with the Halliburton Logs.

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst

	Coal
	Congl
	Dol
	Gyp
	Igne

	Lmst
	Meta
	Mrlst
	Salt
	Shale

	Shcol
	Shgy
	Slstst
	Ss
	Till

ACCESSORIES

MINERAL

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

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

FOSSIL

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

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

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

OTHER SYMBOLS

POROSITY

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

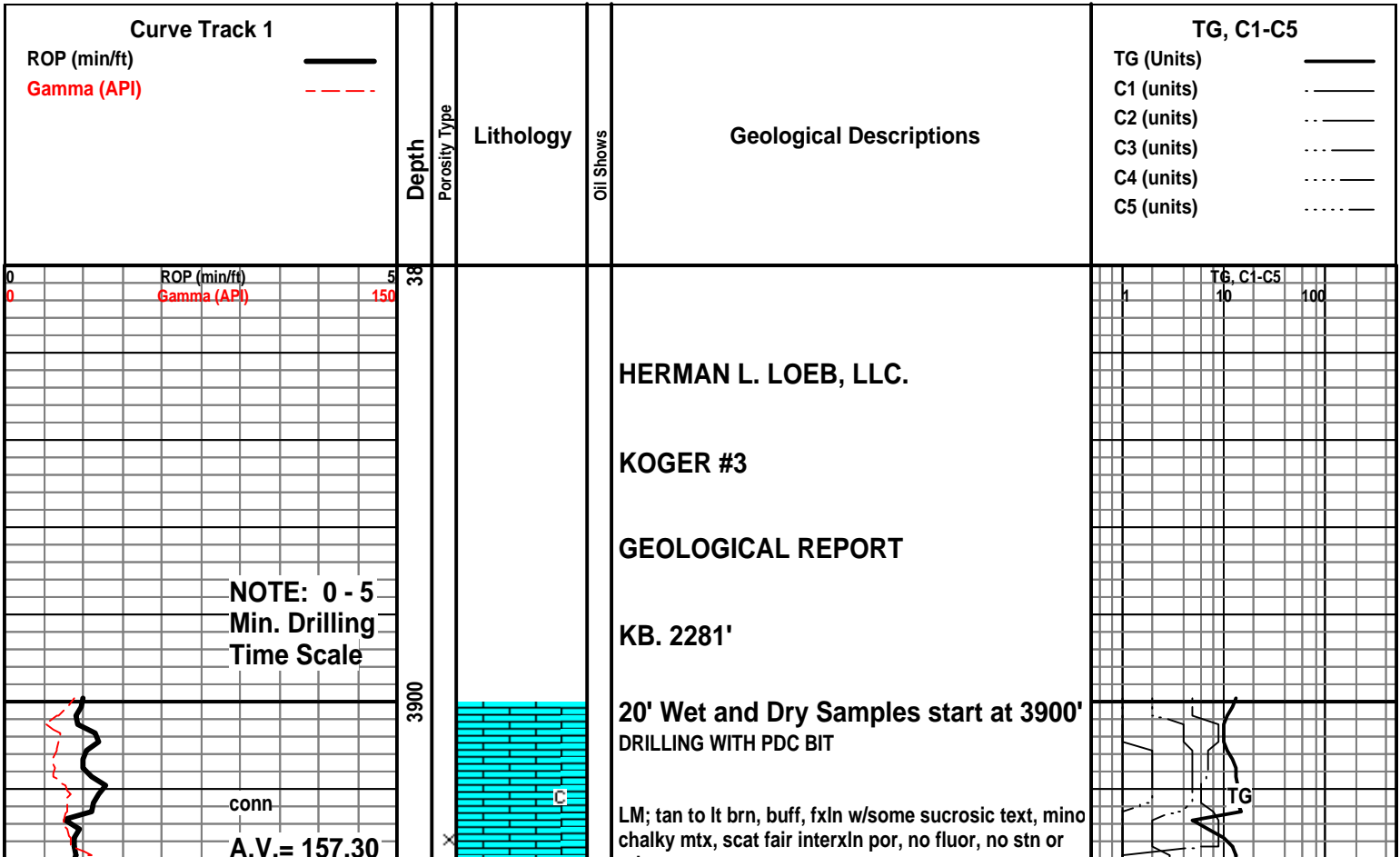
- Even
- Spotted
- Ques
- Dead

INTERVAL

- Core
- Dst

EVENT

- Rft
- Sidewall



at 65 SPM

Vis 46
Wt. 9.2
LCM 2#

conn

WOB 16K
PP 975#
SPM 65
RPM 100

conn

ROP (min/ft)
Gamma (API)

Vis 42
Wt. 9.1
LCM 2#

conn

WOB 16K
PP 1025#
SPM 65
RPM 110

conn

Vis 48
Wt. 9.1
LCM 1#

CFS. at 4103'

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

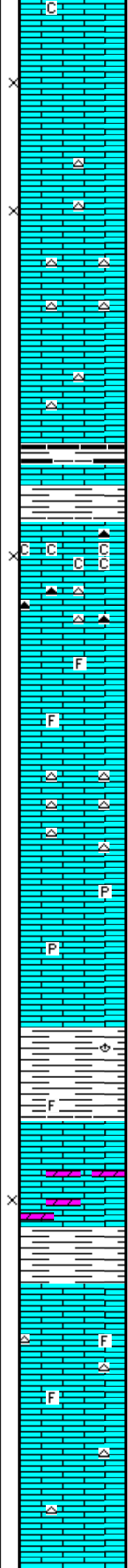
conn
WOB 40K

3950

4000

4050

4100



odor, ns.

LM; tan to cream, lt brn, f to med xln, scat cse spar calc stals, fair interxln por, interbdd gy to off wh cht, no fluor, no stn or odor, ns.

LM; tan to lt brn, fxln, most dense, interbdd gy to blue/gy cht, no vis por, no fluor, ns.

SH; dk gy, some blk, platy

SH; med gy, platy, firm

LM; off wh, tan, buff, fxln to micritic, blocky ip, interbdd dk gy/blk cht, chalky - soft w/poor interxln por at top, no fluor, ns.

LM; tan to buff, cream, fxln w/rare foss mat, well cem, hd, no vis por, ns.

LM; tan to lt brn, blocky, hd, interbdd med gy cht, tite

LM; tan to lt brn, most dense - micritic, scat pyr, rare fxln lmst, no fluor, no stn or odor, ns.

SH; med to dk gy, foss ip.

LM; med gy, sucrosic text - dolomitic ip, fair interxln por, dull yel fluor, no stn or odor, ns.

SH; med to dk gy, platy

BIT TRIP AT 4103'
DRILLING WITH BUTTON BIT

LM; tan to lt brn, some off wh, fxln w/scat well cem foss mat, rare lt gy cht, dull yel to no fluor, no stn or odor, ns.

LM; tan to lt brn, fxln to dense, rare gy cht, no vis por, no fluor, ns.

C1

4 Unit Incr.
Shale

TG, C1-C5
10 100

TG

C1

C4

C3

PP 900#
SPM 55
RPM 73

A.V. = 152.15
at 55 SPM

conn
Vis 51
Wt. 9.2
LCM 2#

conn

ROP (min/ft)
Gamma (API)

WOB 40K
PP 950#
SPM 55
RPM 70

conn

conn
Vis 46
Wt. 9.2
LCM 2#

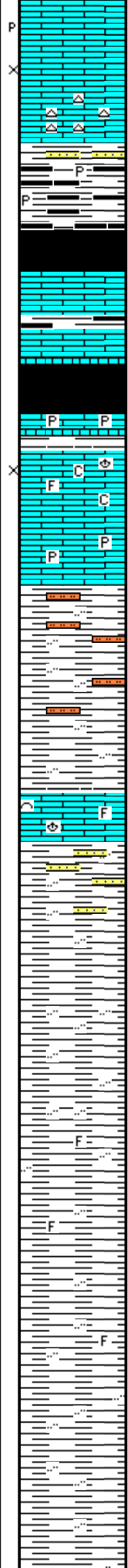
conn

WOB 40K
PP 1025#
SPM 55
RPM 75

conn

conn

4150
4200
4250
4300
4350



LM; tan to buff, off wh, f to occ med xln, rare porous text, scat spar calc xtals, rare poor p-p and interxln por, dull yel fluor, ns.

LM; med brn, blocky, hd, interbdd brn cht, tite

SH; dk gy, blk, sandy ip w/scat pyr

SH; blk, carb, gassy ip.

LM; lt to med gy, gy brn, most dense, blocky, some gritty lmst, no vis por, ns.

HEEBNER SHALE 4189(-1908)

SH; blk, carb, gassy

LM; med brn, hd, pyr ip

TORONTO 4201(-1920)

LM; off wh, cream, tan, foss ip, most fxln w/rare chalky mtz, poor to no vis interxln por, dull yel fluor, no stn o odor, ns.

LM; off wh, buff, hd, pyr ip

DOUGLAS SHALE 4220(-1939)

SH; lt gy, silty w/interbdd sltst

SH; lt to med gy, silty ip, platy

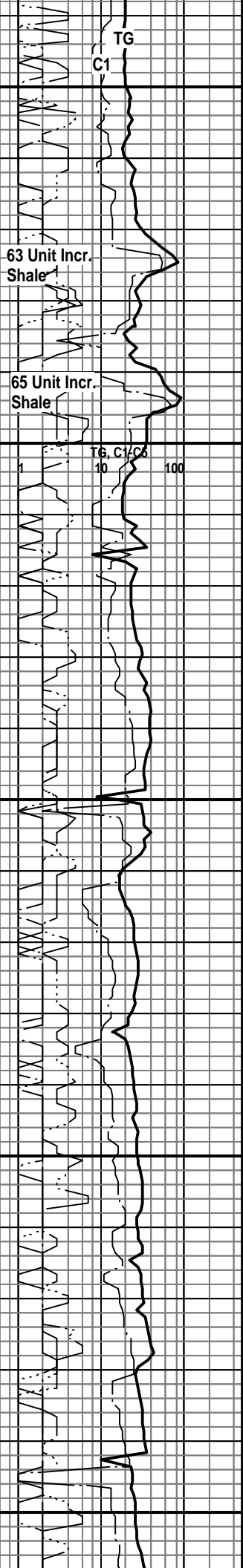
LM; med to dk brn, v. foss, well cem, no vis por, lt yel min fluor, ns.

SH; lt to med gy, platy, silty ip, scat well cem vf to occ gr qtz ss strngs.

SH; lt gy, gy grn, silty, platy, firm

SH; lt to med gy, silty, foss ip, firm

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



MudCo. Mud
Check at 4384'
Vis 61 Wt. 9.1
WL 8.8 PH 12.0
CI 3000 LCM 1#

conn

A.V.= 152.10
at 55 SPM

ROP (min/ft) 10
Gamma (API) 150

WOB 40K
PP 1020#
SPM 55
RPM 66

conn

CFS. at 4436'

conn

Vis 53
Wt. 9.1+
LCM 1#

conn

WOB 40K
PP 950#
SPM 55
RPM 60

conn

Vis 49
Wt. 9.3
LCM 2#

conn

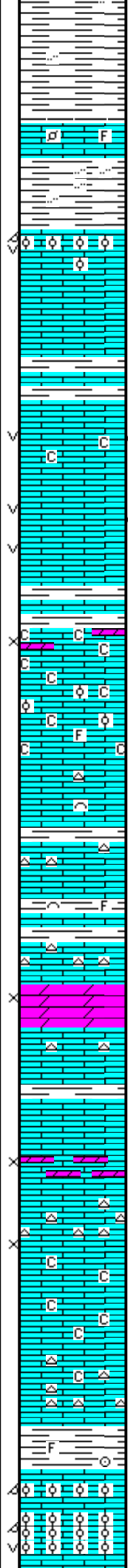
CFS. at 4575'

4400

4450

4500

4550



BROWN LMST. 4375(-2094)

LM; med brn, dense, rare well cem foss, tite

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

LANSING 'A' 4390(-2109)

LM; lt gy, lt brn, oolitic, poor to fair oomoldic w/scat small vug por, lt yel fluor, brittle ip, no vis gas bubbles, no stn or odor, no sample shows

LM; tan to buff, fxln to dense, scat spar calc xtals,

LANSING 'B' 4414(-2133)

LM; tan to lt gy, foss ip, scat fair vug por, minor chalky mtx, spotty med to rarely brite yel fluor, trc gas bubbles, trc lt brn oil stn, fair odor

LM; lt to med gy, gran text, scat poor to fair vug por, spotted lt brn stn, some barren por, faint odor, spotted med yel fluor

LM; wh, off wh, fxln to sucrosic text, partly dolomitic, fair interxln por, soft, chalky mtx ip, no fluor, no stn or odor, ns.

LM; tan to cream, off wh, foss w/scat oolites and some hash, very chalky ip, poor to fair interpart por, lt yel fluor, no stn or odor, ns.

LM; med brn, rarely foss, micritic, scat gy cht, tite

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

DOL; tan, lt brn, fxln to sucrosic, lmy ip, fair interxln por, cherty ip, lt yel min fluor, no stn or gas kick, ns.

LM; lt brn, hd, micritic, blocky, tite

LM; lt brn, sucrosic text - partly dolomitic, fair interxln por, uniform med yel min fluor, no stn or odor, ns.

LM; lt to med brn, fxln, abnt gy fresh cht, poor to fair interxln por, lt to med yel flour, bcm chalky, no stn or odor, ns.

LM; lt brn, tan, fxln to sucrosic text, chalky ip, poor to no vis por, lt yel fluor, scat gy cht, no vis stn, no odor, ns.

SH; med gy, platy, foss ip.

LANSING/K.C. 'H' 4564(-2283)

LM; med brn, oolitic, med size molds - gd oomoldic por, brittle, scat vug por, dull to lt yel fluor, no stn or odor, no gas bubbles vis.

6 Unit Incr.

TG, C1-C5
10 100

TG

C1

20 Unit Incr.
Poss. Show

Recycle

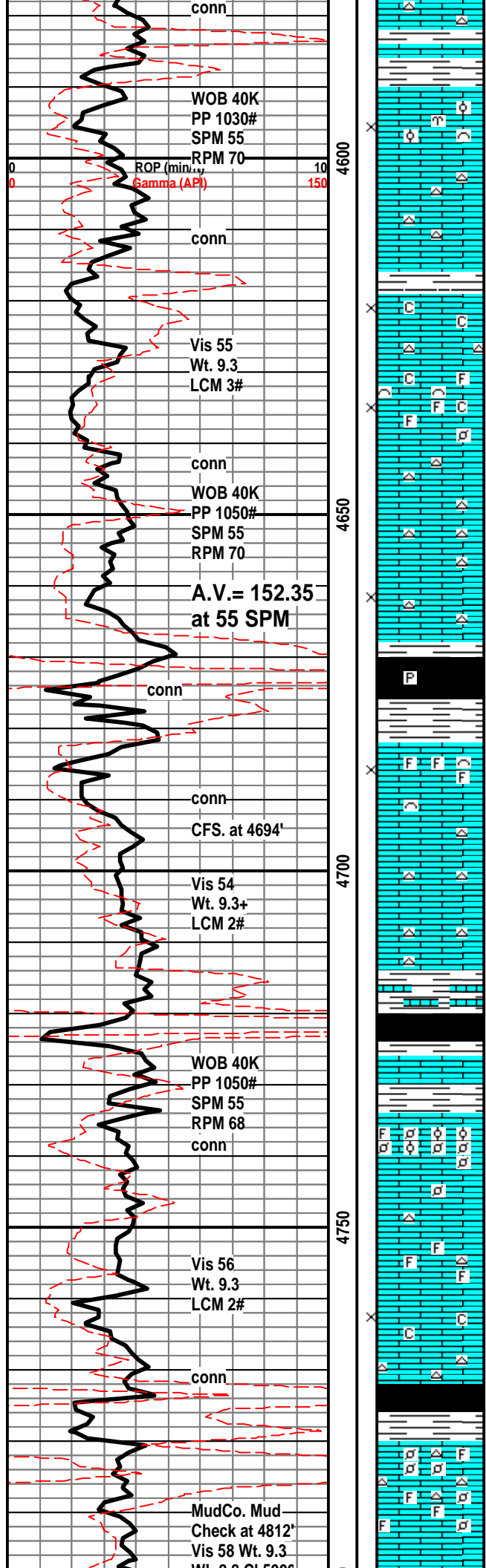
NO GAS DATA
Computer Problem

TG

C1

4 Unit Incr.

5 Unit Incr.



LM; med brn, hd, scat gy/tan cht, tite

LM; tan to lt brn, foss w/scat oolites/foss hash, poor interpart por, lt golden yel fluor, no vis stn, no odor, no gas kick

LM; lt to med brn, hd, micritic, scat gy/tan cht, tite

LM; tan to cream, buff, fxln, poor to fair interxln por, lt yel fluor, minor chalky mtx, no stn or odor, no gas kick

LM; tan to lt brn, abnt foss hash, interbdd soft chalk and chalky mtx, poor to no vis por, lt yel min fluor, no stn or odor, ns.

LM: tan to lt brn, fxln, much dense micrite, scat poor interxln por, occ tan to gy cht, v. dull yel min fluor, no stn or odor, ns.

SH; blk, carb ip, rare pyr

K.C. 'J' DENNIS 4682(-2401)

LM; tan to buff, foss w/poor to fair interpart por, most well cem, minor chalky mtx, dull yel fluor, no vis stn, no odor, no gas kick, ns.

LM; tan to buff, fxln to dense, interbdd off wh to gy cht, no vis por, ns.

LM; med brn, dense, some litho, tite

STARK SHALE 4720(-2439)

SH; blk, carb, gassy

LM; lt brn, tan, foss - abnt well cem small pellets/oooids, no vis por, lt yel fluor, no stn or odor, ns.

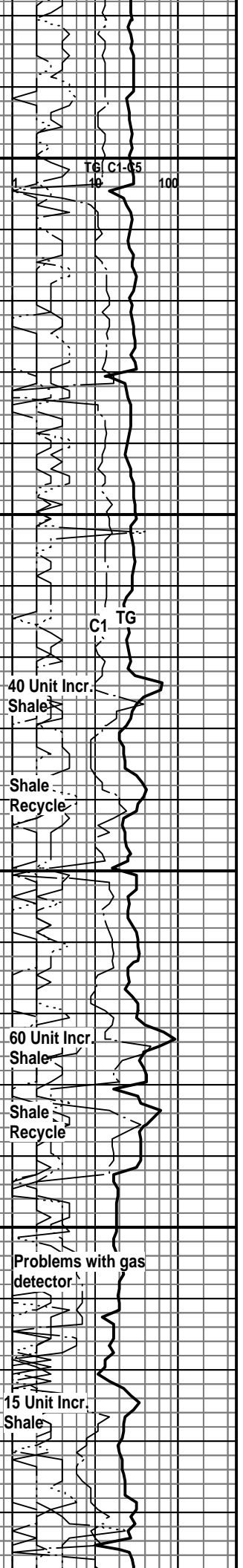
LM; tan to lt brn, foss, scat foss cht, dense, no vis por, lt yel fluor, no stn or odor, ns.

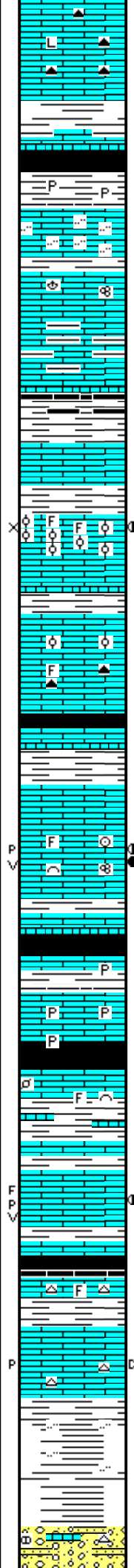
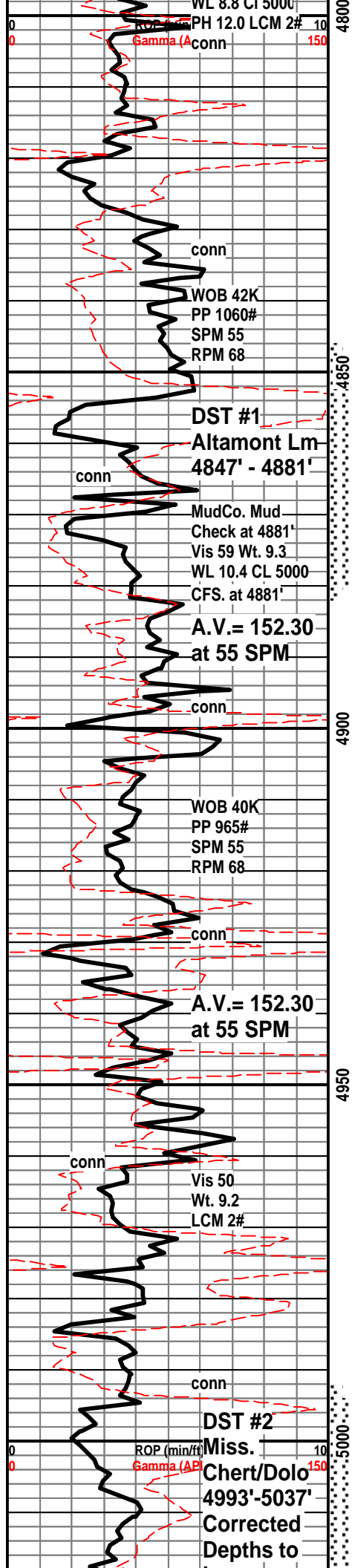
LM; tan to cream, off wh, f to med xln, minor chalky mtx, fair interxln por, dull yel fluor, no stn or odor, ns.

SH; blk, carb ip, platy

HERTHA 4780(-2499)

LM; tan to med brn, foss ip - finely pelletal, some siliceous lmst w/chty lmst, most well cem, no fluor, no vis por, ns.





LM; med to dk brn, v. hd, blocky, some litho, scat dk gy to blk cht, no vis por, ns.

BASE KANSAS CITY 4812(-2531)

LM; med brn, hd, argil ip.

SH; dk gy - blk, platy, occ pyr

LM; med gy brn, med brn, argil - silty to gritty text, hd

LM; med gy, gy brn, hd, interbdd hd argil lmst

SH; med to dk gy, rare blk, some gy grn, firm

MARMATON 4860(-2579)

LM; med brn, hd, blocky

ALTAMONT 4870(-2589)

LM; tan to lt brn, foss - oolitic, fair to gd vis interpart por, sev. gas bubbles, few pcs w/spotted med brn oil stn, v. faint odor, fair cut, lt yel fluor - gas show

DST #1: Altamont Lmst. 4847' - 4881'
Corrected Depths to Log

LM; tan to lt brn, foss ip, well cem, rare oolitic lmst, no vis por, scat org/brn cht, ns.

SH; dk gy, blk, platy

PAWNEE 4908(-2627)

LM; tan to lt brn, foss ip, sev. pcs w/fair p-p and small vug por, appears to be leached por, spotty to occ even lt brn oil stn, gd odor, brite yel fluor, fair to gd cut - maybe a little tight, trc gas bubbles, mostly tite micrite

SH; blk, carb, blocky, gassy

LM; med brn, hd, micritic, occ pyr, tite, ns.

CHEROKEE SHALE 4946(-2665)

SH; blk, carb, gassy ip.

LM; med brn, foss ip, dense, no vis por, ns.

SH; grn, gy brn, lmy ip.

LM; tan to lt brn, fxln, scat poor to fair p-p/small vug por, scat fracs w/edge stn, spotted med brn stn, fair odor, med/occ brite yel fluor, fair cut, most looks tite

SH; blk, carb, thinly bdd

LM; tan to lt brn, hd, scat foss gy cht, tite

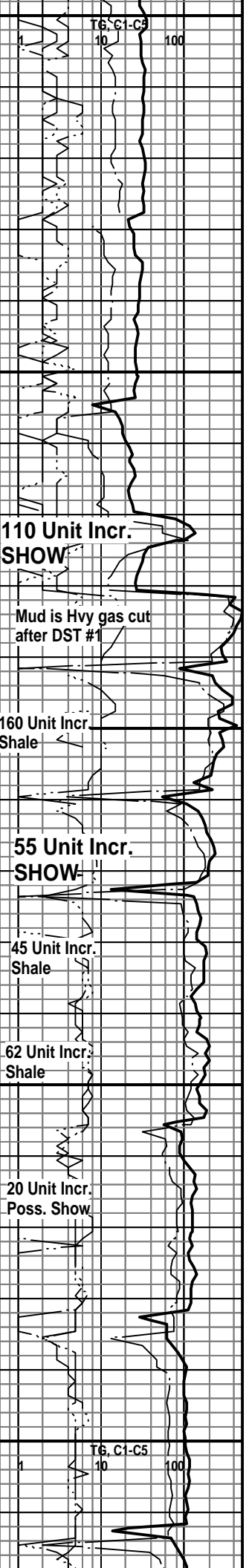
LM; tan to med brn, most dense, micritic, rare gy cht, trc dk brn stn in poor p-p por, faint odor

BASE CHEROKEE LM. 4994(-2713)

SH; grn, gy grn, rare red/brn, maroon, silty ip, firm

CONGL; weath brn cht, grn vf gr qtz ss, weath nodular lmst, no vis stn, no fluor

MISS. CHERT 5020(-2739)



Log

conn
MudCo. Mud
Check at 5037'
Vis 54 Wt. 9.2
WL 9.0 CI 4500
PH 12.0 LCM 2#
CFS. at 5037'

WOB 40K
PP 875#
SPM 55
RPM 65

conn
DST #3
Miss. Dolo.
5052' - 5074'

CFS. at 5074'
Vis 55
Wt. 9.1
LCM 2#
conn

WOB 40K
PP 925#
SPM 55
RPM 65

conn

Vis 52
Wt. 9.1
LCM 2#

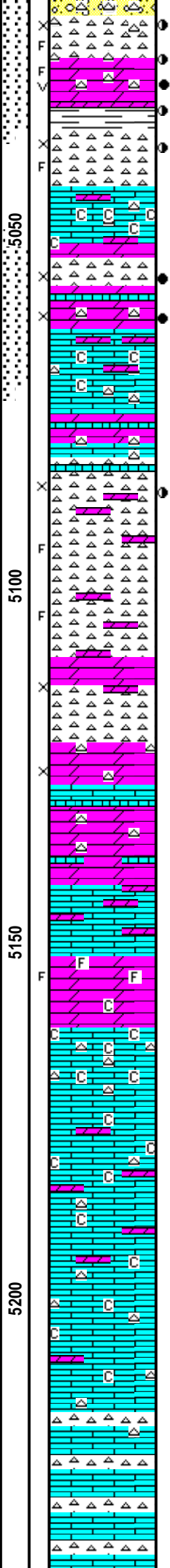
conn

WOB 40K
PP 945#
SPM 55
RPM 60

conn
MudCo. Mud
Check at 5198'
Vis 60 Wt. 9.2
WL 9.0 CI 5000
PH 12.5 LCM 1.5#

ROP (min/ft)
Gamma (API)

conn
WOB 40K
PP 930#
SPM 55
RPM 60



CHT; grn, off wh, fresh and trip, scat brn oil stn, interbdd sucrosic cherty dolo, scat brite yel fluor, SSFO, fair to gd odor, fair/gd cut
CHERTY DOL; pale grn, wh, off wh, fracs, trip cht/dolomitic cht w/live med brn oil stn, rare vug por, SFO, gas bubbles, fair to gd odor, brite yel fluor, some blue/gy spicular cht, fair/gd cut
DST #2: Miss. Dol/Cht. 4993' - 5037'
CHT; blue/gy, fresh, fracs, rare trip, occ med stn
LM; off wh, wh, buff, fxln w/abnt chalk and chalky mtz, rare sucrosic text, most tite
CHT; wh, off wh, trip to fresh, dolomitic ip, fair even lt brn stn, strong odor, gas bubb, fair interxln por, SFO, brite yel fluor, fair cut
DOL; lt brn, lt gy, sucrosic, fair interxln por, gd odor, SFO, gas bubbles, brite yel fluor, gd cut
LM; off wh, wh, med xln, some chalky - soft, occ cherty, most tite
DST #3: Miss. Dolo. 5052' - 5074' Corrected Depths to Log
CHT; off wh, blue/gy, partly dolomitic, some fresh sharp cht, rare trip, poor to fair interxln por w/rare fracs, trc spotted med brn oil stn, no odor, no cut
CHT; off wh, lt gy, rare blue gy, most fresh, interbdd tan to lt gy cherty dolomite, sucrosic, no fluor, no stn or odor, ns.
DOL; lt gy, tan, sucrosic, fairly tite, poor interxln por, cherty ip, interbdd lmy dolo, ns.
DOL; tan, lt gy, cherty, most tite, scat blue/gy to off wh cht, some lmy, ns.
LM; off wh, med to cse xln, partly dolomitic, hd, blocky, no vis por, ns.
DOL; tan, sucrosic, cherty, some foss cht, most hd, no fluor, ns.
LM; tan to cream, buff, cherty w/interbdd lt gy fresh cht, some chalky - soft, no fluor, no vis por, ns.
LM; off wh, cream, med to cse xln, much chalky mtz, rarely dolomitic, scat off wh to lt gy cht, interbdd dolomitic lmst, no fluor, no stn or odor, ns.
LM; off wh, buff, cream, med to occ cse xln, chalky mtz, scat gy to off wh cht, rarely dolomitic, no fluor, no stn or odor, ns.
LM; tan to cream, lt brn, interbdd gy to off wh fresh cht, some dk gy cht, no vis por, no fluor, ns.

56 Unit Max.
Incr.
SHOW

Mud is gassy after DST #2

POSS. GAS KICK
130 Unit Incr
SHOW

Gassy Mud after DST #3

Recycle

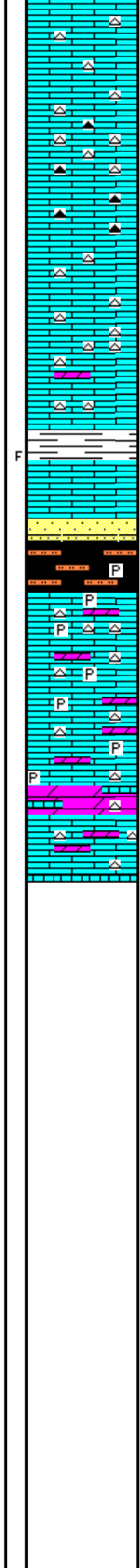
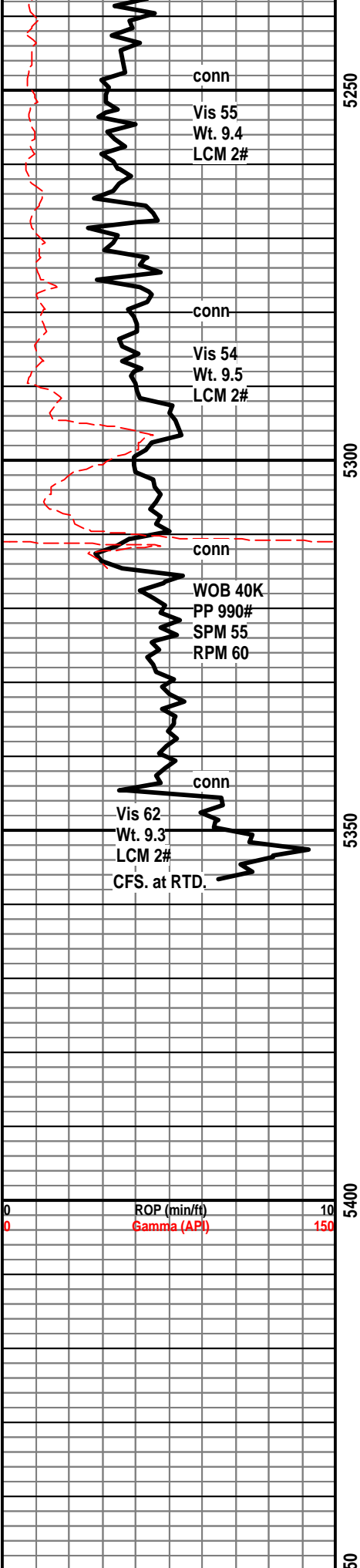
Recycle

Recycle?

Recycle?

Recycle?

TG, C1-C5
10
100



LM; lt to med brn, very cherty ip, scat med to dk gy cht, no vis por, ns.

UPHOLE SHALE SLOUGHING BADLY - SAMPLES VERY POOR

KINDERHOOK SHALE 5308(-3027)
 SH; med gy, dk gy-blk, silty ip, rarely pyr, trc v gr qtz ss, poor intergran por, no fluor, ns.

VIOLA 5318(-3037)
 LM; tan to lt gy, med to occ cse xln, partly dolomitic, scat pyr, no vis por, scat dove gy cht w/black specks, no fluor, ns.

LM; lt gy, off wh, interbdd fresh cht, very spotted/trc lt brn oil stn in partly weathered areas, lt yel fluor, no odor, no vis gas bubbles, looks tite

LM; tan to buff, dolomitic w/interbdd sucrosic dolomitic lmst, scat tan to gy fresh cht, occ chalky mt; no vis por, no fluor, ns.

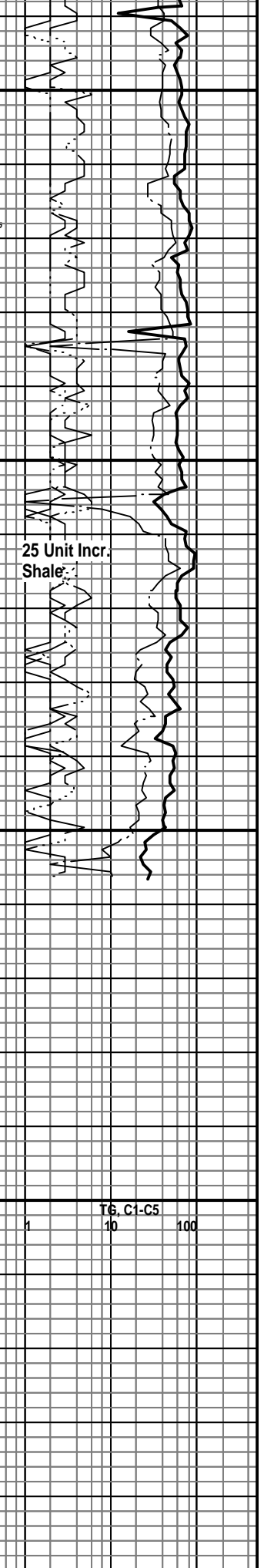
NOTE: BIT BOUNCING BADLY, SUSPECT CONE LOOSE - BALD BIT, BUTTONS MOSTLY GONE - DECIDED TD. AT 5357'

RTD. 5357' at 8:22 PM. on 4/14/16

LTD. 5356'

Halliburton DIL, NEU/DEN w/PE, Microlog and Sonic

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





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

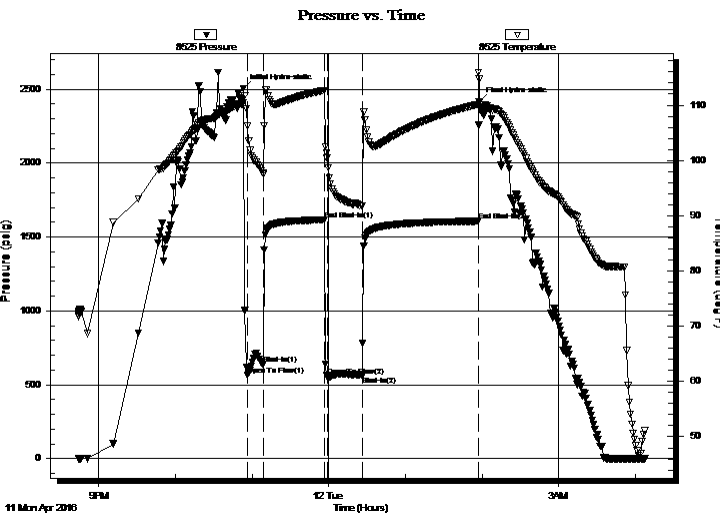
1-30S-19W Kiowa
Koger 3
 Job Ticket: 57985 **DST#: 1**
 Test Start: 2016.04.11 @ 20:44:01

GENERAL INFORMATION:

Formation: **Altamont Lime**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:56:16 Tester: Leal Cason
 Time Test Ended: 04:07:16 Unit No: 74
 Interval: **4848.00 ft (KB) To 4882.00 ft (KB) (TVD)** Reference Elevations: 2281.00 ft (KB)
 Total Depth: 4882.00 ft (KB) (TVD) 2269.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
 Press @ Run Depth: 561.39 psig @ 4849.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.11 End Date: 2016.04.12 Last Calib.: 2016.04.12
 Start Time: 20:44:02 End Time: 04:07:16 Time On Btm: 2016.04.11 @ 22:53:16
 Time Off Btm: 2016.04.12 @ 01:57:31

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 3 minutes, Gauged & Caught Sample
 IS: Would Not Bleed Off
 FF: Strong Blow , BOB & GTS immediate, Gauged Gas
 FS: Would Not Bleed Off



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2505.30	110.42	Initial Hydro-static
3	563.31	106.20	Open To Flow (1)
16	640.20	97.52	Shut-In(1)
63	1616.53	112.69	End Shut-In(1)
66	561.06	100.48	Open To Flow (2)
93	561.39	91.75	Shut-In(2)
184	1607.22	110.15	End Shut-In(2)
185	2413.17	114.73	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	4836 GIP	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	140.00	4438.82
Last Gas Rate	0.75	160.00	2724.10
Max. Gas Rate	0.75	160.00	2724.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

1-30S-19W Kiowa
Koger 3
Job Ticket: 57985 **DST#: 1**
Test Start: 2016.04.11 @ 20:44:01

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)
1	10	1.00	140.00	4438.82
1	15	1.00	125.00	4007.59
2	10	0.75	148.00	2536.66
2	20	0.75	160.00	2724.10
2	30	0.75	160.00	2724.10

Serial #: 8525

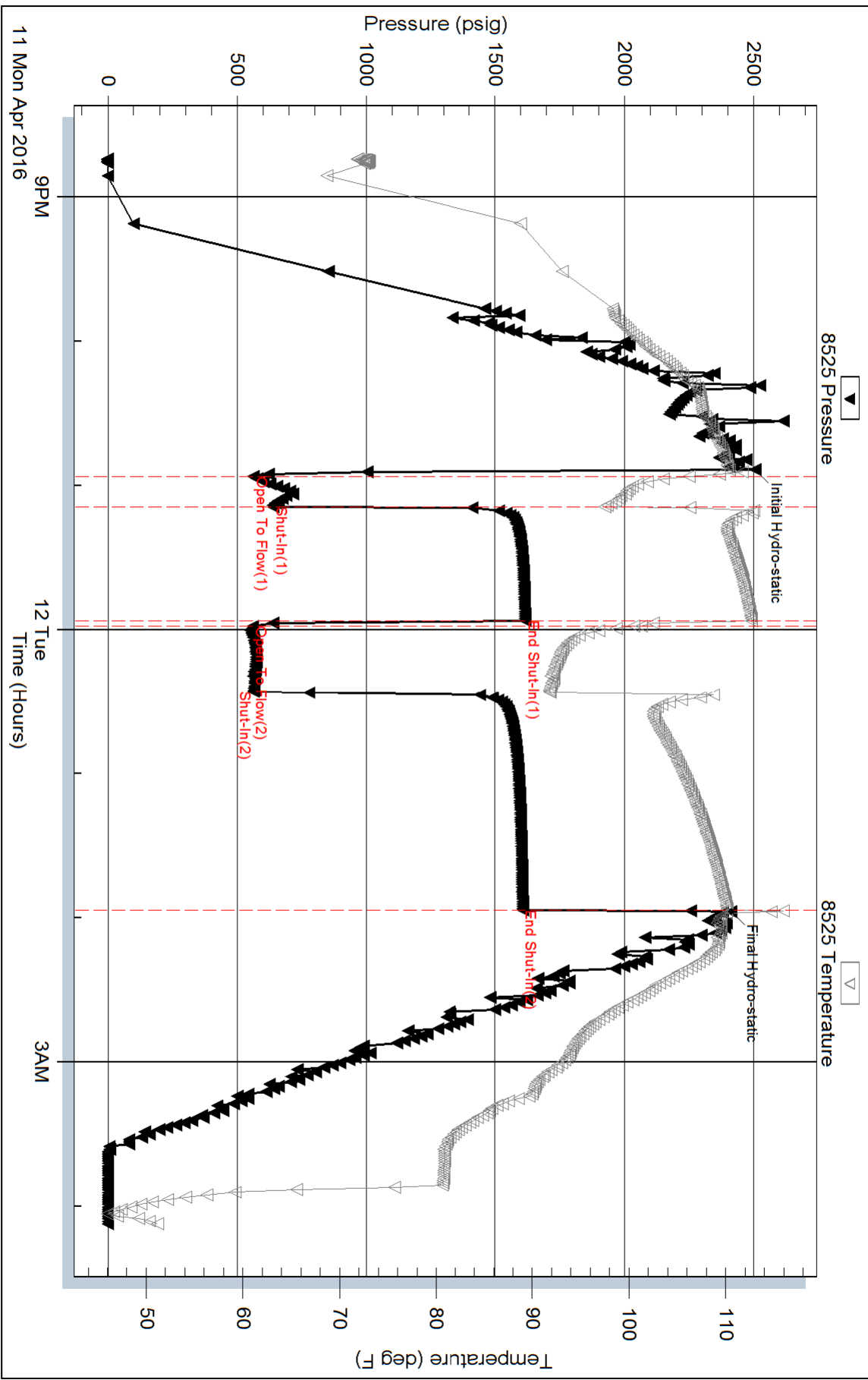
Inside

Herrnan L Loeb LLC

Koger 3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57985

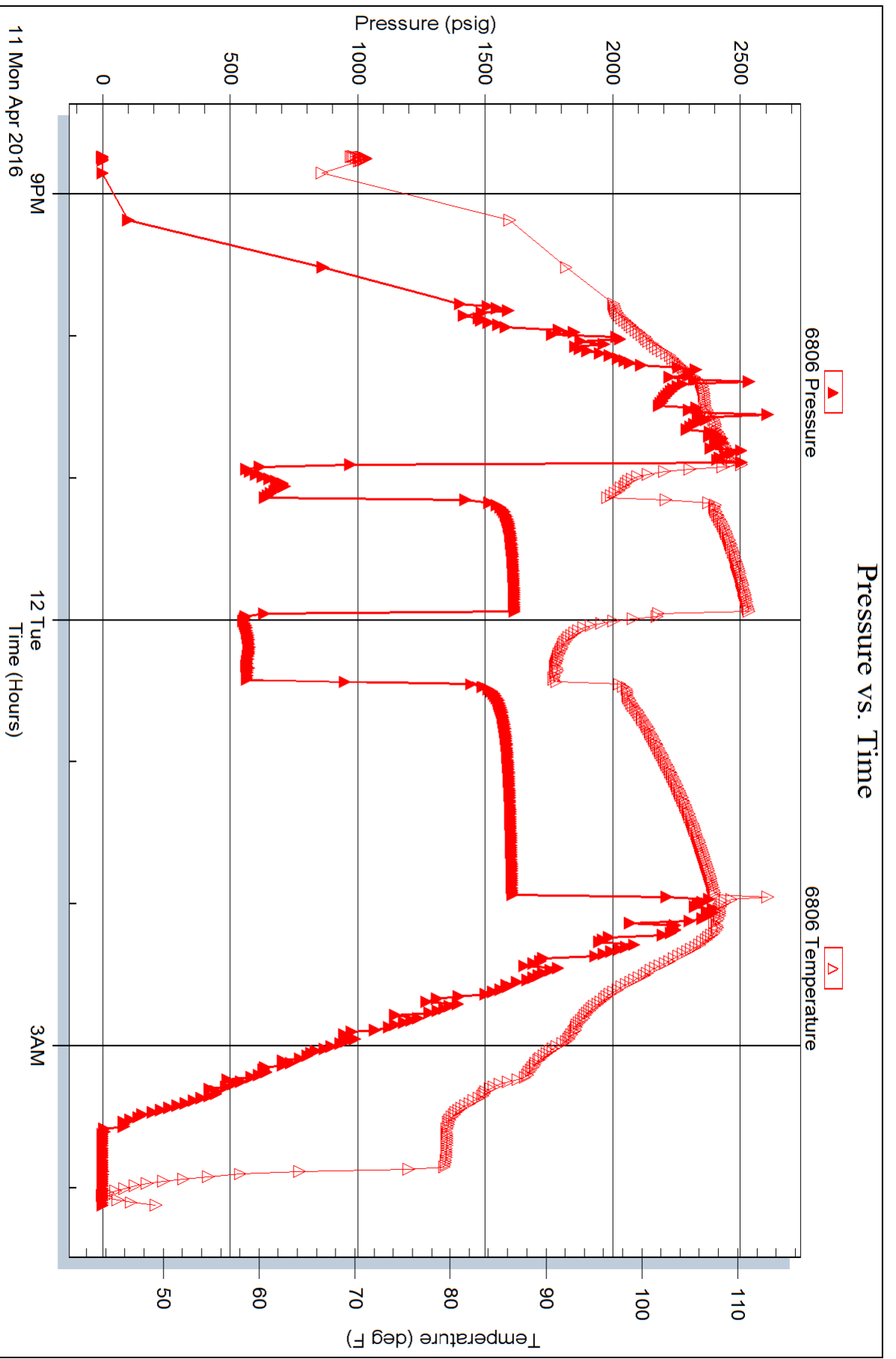
Printed: 2016.04.12 @ 07:23:35

Serial #: 6806

Outside Herran L Loeb LLC

Koger 3

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

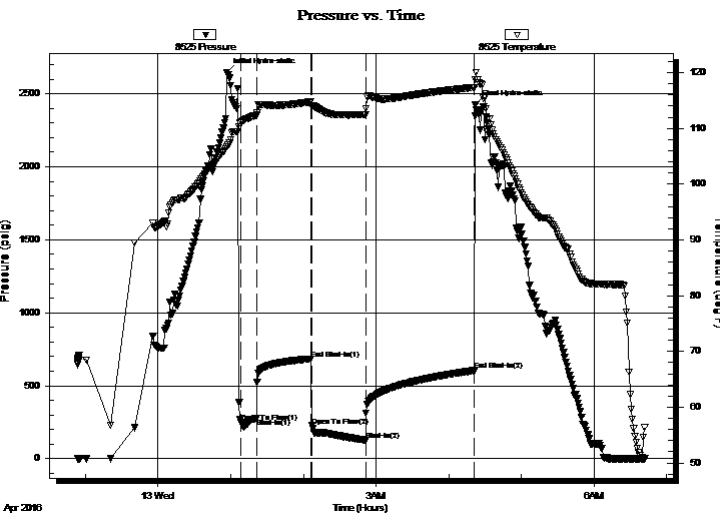
1-30S-19W Kiowa
Koger 3
 Job Ticket: 57986 **DST#: 2**
 Test Start: 2016.04.12 @ 22:53:34

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:08:04 Tester: Leal Cason
 Time Test Ended: 06:42:34 Unit No: 74
 Interval: **4994.00 ft (KB) To 5038.00 ft (KB) (TVD)** Reference Elevations: 2281.00 ft (KB)
 Total Depth: 5038.00 ft (KB) (TVD) 2269.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 126.02 psig @ 4995.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.12 End Date: 2016.04.13 Last Calib.: 2016.04.13
 Start Time: 22:53:35 End Time: 06:42:34 Time On Btm: 2016.04.13 @ 00:56:49
 Time Off Btm: 2016.04.13 @ 04:22:04

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 6 minutes, Gauged & Caught Sample
 IS: Woud Not Bleed Off
 FF: Strong Blow , BOB % GTS Immediate, Gauged Gas
 FS: Would Not Bleed Off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2646.88	106.65	Initial Hydro-static
12	250.64	111.06	Open To Flow (1)
25	274.74	112.37	Shut-In(1)
69	683.96	114.76	End Shut-In(1)
70	225.43	113.78	Open To Flow (2)
115	126.02	112.45	Shut-In(2)
205	603.60	117.36	End Shut-In(2)
206	2424.19	118.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4869 GIP	0.00
125.00	GCM 5%G 95%M	0.61

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	170.00	69.02
Last Gas Rate	0.50	40.00	366.97
Max. Gas Rate	0.25	185.00	316.33



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-30S-19W Kiowa
Koger 3
Job Ticket: 57986 **DST#: 2**
Test Start: 2016.04.12 @ 22:53:34

Mud and Cushion Information

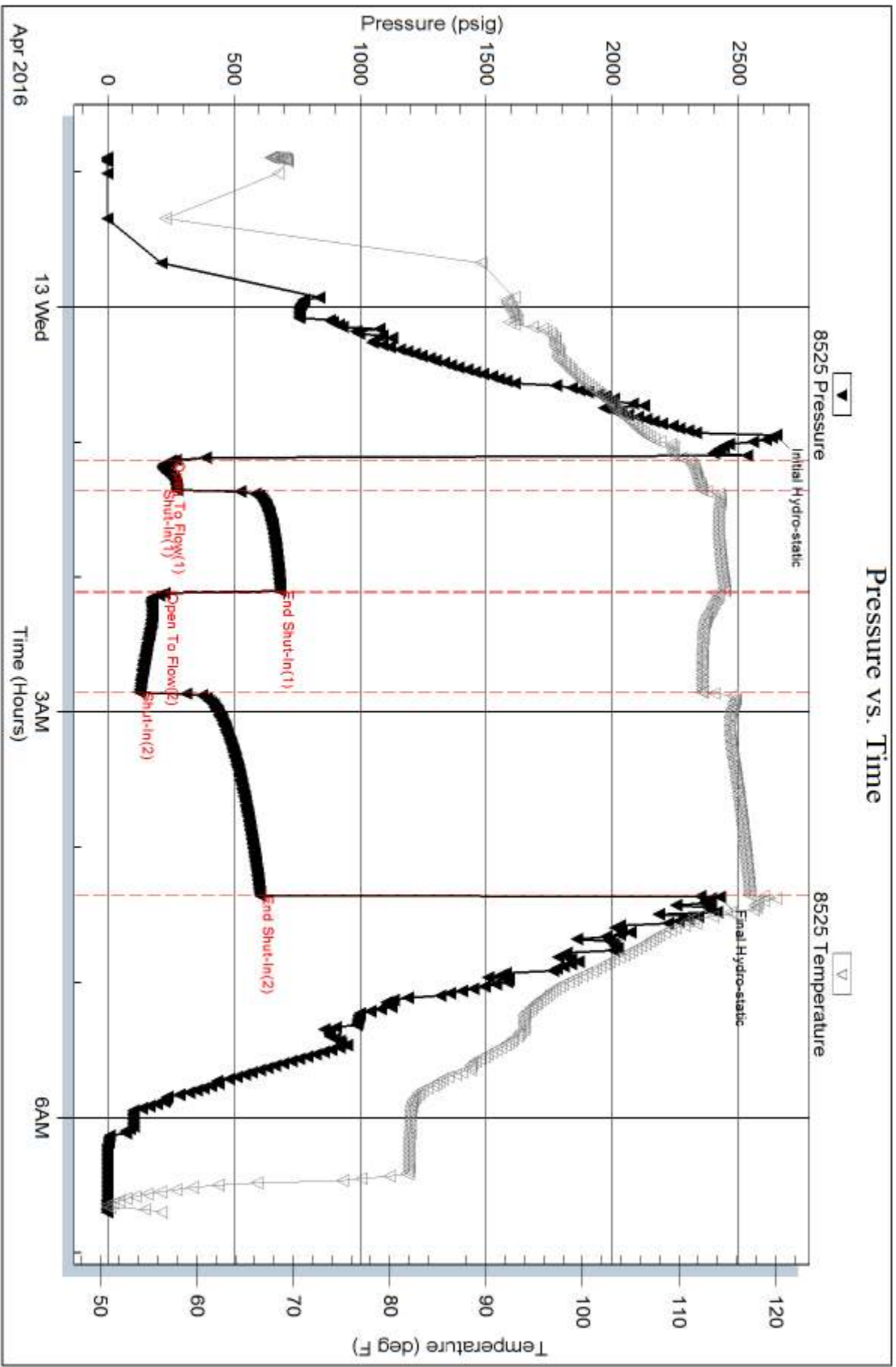
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4869 GIP	0.000
125.00	GCM 5%G 95%M	0.615

Total Length: 125.00 ft Total Volume: 0.615 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

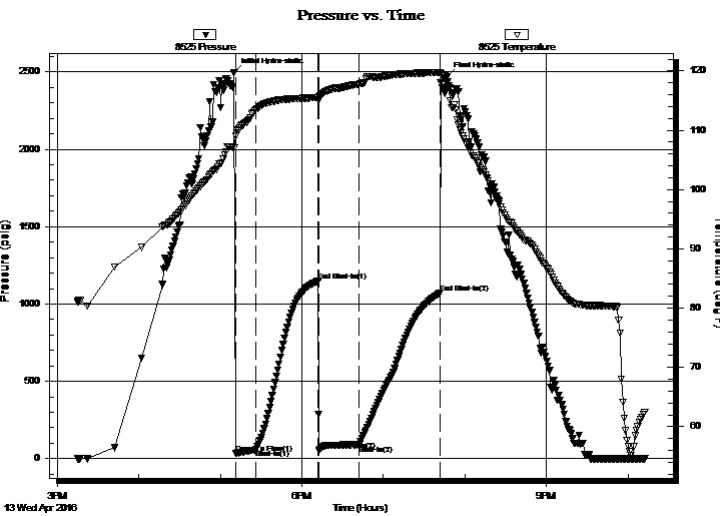
1-30S-19W Kiowa
Koger 3
 Job Ticket: 57987 **DST#: 3**
 Test Start: 2016.04.13 @ 15:15:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:11:15 Tester: Leal Cason
 Time Test Ended: 22:12:15 Unit No: 74
 Interval: **5053.00 ft (KB) To 5075.00 ft (KB) (TVD)** Reference Elevations: 2281.00 ft (KB)
 Total Depth: 5075.00 ft (KB) (TVD) 2269.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 88.65 psig @ 5054.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.13 End Date: 2016.04.13 Last Calib.: 2016.04.13
 Start Time: 15:15:01 End Time: 22:12:15 Time On Btm: 2016.04.13 @ 17:10:15
 Time Off Btm: 2016.04.13 @ 19:47:00

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
 IS: Weak Surface Blow Back
 FF: Strong Blow , BOB in 30 seconds
 FS: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2497.81	107.08	Initial Hydro-static
1	35.34	109.00	Open To Flow (1)
16	57.37	113.46	Shut-In(1)
62	1148.29	115.52	End Shut-In(1)
63	52.96	115.59	Open To Flow (2)
92	88.65	117.77	Shut-In(2)
152	1070.50	119.78	End Shut-In(2)
157	2467.54	117.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1978 GIP	0.00
62.00	GMCW 5%G 20%M 75%W	0.30
127.00	OMCW 5%O 40%M 55%W	0.62
3.00	GCM 2%G 98%M	0.01

* 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
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

1-30S-19W Kiowa
Koger 3
Job Ticket: 57987 **DST#: 3**
Test Start: 2016.04.13 @ 15:15:00

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:	85000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: 0.02 inches			

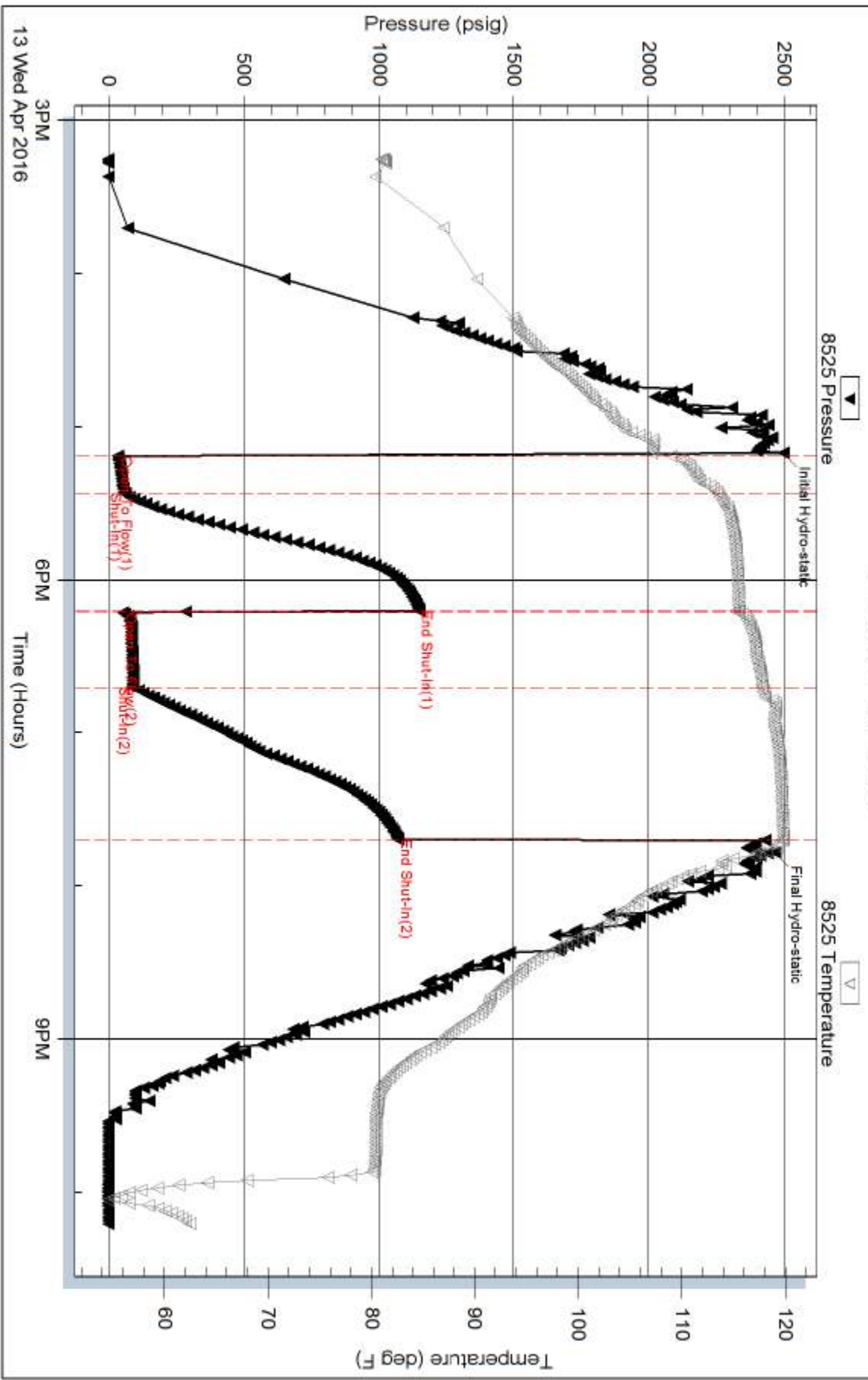
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1978 GIP	0.000
62.00	GMCW 5%G 20%M 75%W	0.305
127.00	OMCW 5%O 40%M 55%W	0.625
3.00	GCM 2%G 98%M	0.015

Total Length: 192.00 ft Total Volume: 0.945 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW w as .13@ 50 degrees

Pressure vs. Time



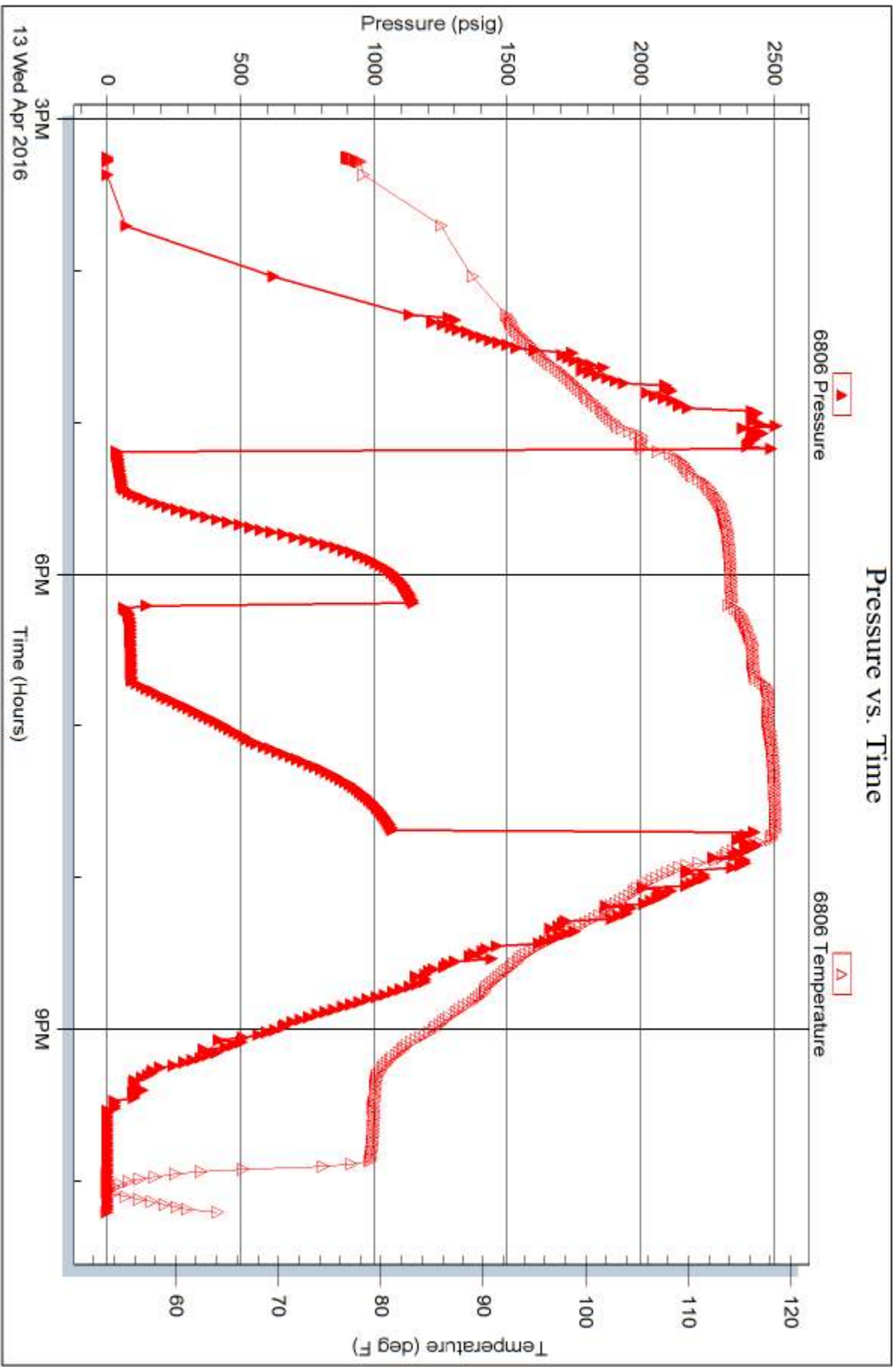
13 Wed Apr 2016

Serial #: 6806

Outside Herman L Loeb LLC

Koger 3

DST Test Number: 3



13 Wed Apr 2016

Triobite Testing, Inc

Ref. No: 57987

Printed: 2016.04.14 @ 07:19:38



PAGE 1 of 1	CUST NO 1007589	YARD # 1718	INVOICE DATE 04/21/2016
INVOICE NUMBER 92103392			

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

J LEASE NAME Koger #3
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

6076 / 6498 / KOGER 3

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40929353	86779-0		Net - 30 days	05/21/2016

For Service Dates: 04/15/2016 to 04/15/2016

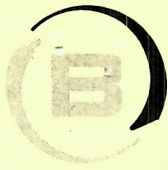
0040929353

171812189A Cement-New Well Casing/Pi 04/15/2016
 Longstring Cement New Well

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
50/50 POZ	220.00	EA	5.28	1,161.60 T
50/50 POZ	50.00	EA	5.28	264.00 T
Celloflake	68.00	EA	1.78	120.77 T
Gypsum	1,135.00	EA	0.36	408.60 T
FLA-322	114.00	EA	3.60	410.40 T
Gilsonite	1,620.00	EA	0.32	520.99 T
KCL	612.00	EA	0.72	440.64 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	192.00	192.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	172.80	172.80
"Turbolizer, 5 1/2" (Blue)"	10.00	EA	52.80	528.00
"Cement Basket, 5 1/2"	2.00	EA	139.20	278.40
Claymax	5.00	EA	16.80	84.00 T
Mud Flush	1,000.00	EA	0.72	720.00 T
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	2.16	86.40
Heavy Equipment Mileage	80.00	MI	3.60	288.00
"Proppant & Bulk Del. Chgs., per ton mil	454.00	EA	1.20	544.80
Depth Charge; 5001-6000'	1.00	EA	1,382.40	1,382.40
Blending & Mixing Service Charge	270.00	BAG	0.67	181.44
Plug Container Util. Chg.	1.00	EA	120.00	120.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	84.00	84.00

PAID
666790
APR 28 2016
SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,989.24
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	309.83
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,299.07
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 12189 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4-15-16		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 L. LOEB, LLC				LEASE: KOGIER				WELL NO.: 3							
ADDRESS:				COUNTY: KIOWA				STATE: KS							
CITY:				STATE:				SERVICE CREW: KC, SCOTT, PAUL							
AUTHORIZED BY:				JOB TYPE: NEW-LONGSTRING											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
80777	34						4/15			1000					
						ARRIVED AT JOB				1900					
						START OPERATION				2245					
19918	14					FINISH OPERATION				2330					
						RELEASED				2400					
						MILES FROM STATION TO WELL				40					

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	
17104	30/50 P02	SK	220		7420.00	
17104	30/50 P02	SK	50		550.00	
10102	CELLULOSIC	lb.	68		751.60	
10113	G415UM	lb.	1135		851.25	
10129	FLA-322	lb.	114		855.00	
10201	GILSONITE	lb.	1620		1085.40	
10700	PCL	lb.	612		918.00	
11607	5/8 LATCH DOWN PLUG	EA	1		400.00	
11625	5/8 MFLY FLIGHT SHOE	EA	1		360.00	
11631	5/8 TURBOLEVER	EA	10		1100.00	
11701	5/8 BASKET	EA	2		580.00	
1704	CLAYMIX	gal	5		175.00	
10151	MURSELUK	gal	1000		1500.00	
E100	4127 MILEAGE - PICKUP	mi	40		180.00	
E101	4127 EQUIPMENT MILEAGE	mi	80		600.00	
E113	BULK DELIVERY	TM	454		1135.00	
1E206	DEPTH CHANGE SCOT - 6000'	EA	1		7880.00	
1E240	PLENUM CHARGE	SK	270		378.00	
1E304	PLUG CONTAINER	EA	1		750.00	
5003	SERVICE SUPERVISOR	EA	1		175.00	
					SUB TOTAL	16,644.25

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		7989.24

DISC. PRICE

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

FIELD SERVICE ORDER NO. _____

Customer: HERMAN L. LOEB, LLC	Lease No. 3	Date: 4-15-16			
Lease: KOGER	Well # 3				
Field Order # 12189	Station PRATT, KS.	Casing 5 1/2	Depth 3345	County KIOWA	State KS.
Type Job ENW-LOWSTRING	Formation TD-5356	Legal Description 1-30-19			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5 1/2				Pre Pad		Max		5 Min.
Depth 3345	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 2330	Packer Depth	From	To					

Customer Representative GEORGE	Station Manager KEVIN	Treater CHADLEY
Service Units 83353	78982-86779	70959-19918
Driver KL	SCOTT	PRATT, KANSAS

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1600					ON LOCATION
					RUN 15345 5 1/2 15.5" PSC = 127 JTS
					AFU FLOAT SIDE LATCH BATTLE
					IN 15' SIDE IT COLLAR
					CEMT: 124, 1, 6, 7, 10, 12, 20, 27, 26, 30
					BASKET - 5, 11
2145					TAC BOTTOM, DROP BALL, CIRCULATE
2245	500		5	6	PUMP 5 bbl H2O
	500		24	6	PUMP 24 bbl MUD FLUSH
	500		5	6	PUMP 5 bbl H2O
	400		55	6	MIX 220 SK 50/50 POZ
					2% PEG, 5% PVP SUM, 5% BCL
					5% FLA-322, 12# PISONITE, 114# P.S.
					STOP INSH LINE, DROP PLUG
	0		10	6	START DESP. W/ 2% H2O
	300		90	6	LEFT ELEMENT
	800		120	3	SLOW RATE
2330	1500		127	3	PLUG DOWN - HELD
					P.M.C. RAT HOLE - 30 SK 50/50 POZ
					P.M.C. MOUSE HOLE - 20 SK 50/50 POZ
2400					TOP COMPLETE - KEVIN



PAGE 1 of 1	CUST NO 1007500	YARD # 1718	INVOICE DATE 04/08/2016
INVOICE NUMBER 92093935			

Pratt (620) 672-1201

J LEASE NAME Koger #3
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

B HERMAN L LOEB LLC
 I PO Box: 838
 L LAWRENCEVILLE
 L IL US 62439
 T
 O ATTN: 6438 ACCOUNTS PAYABLE

6076/6248/707 Koger (Koger #3)

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40926515	27463-0		Net - 30 days	05/08/2016

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 04/06/2016 to 04/06/2016				
0040926515				
171813434A Cement-New Well Casing/Pi 04/06/2016 Surface Cement New Well				
A-Con' Blend	175.00	EA	8.10	1,417.50 T
60/40 POZ	175.00	EA	5.40	945.00 T
Celloflake	88.00	EA	1.67	146.52 T
Calcium Chloride	948.00	EA	0.47	447.93 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	101.25	101.25
"8 5/8"" Guide Shoe (Red)"	1.00	EA	247.50	247.50
"Baffle Plate Alum., 8 5/8"" (Blue)"	1.00	EA	76.50	76.50
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	2.03	81.00
Heavy Equipment Mileage	80.00	MI	3.38	270.00
"Proppant & Bulk Del. Chgs., per ton mil	632.00	EA	1.13	711.00
Depth Charge; 501'-1000'	1.00	EA	540.00	540.00
Blending & Mixing Service Charge	350.00	BAG	0.63	220.50
Plug Container Util. Chg.	1.00	EA	112.50	112.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	78.75	78.75

PAID
66520
SEARCHED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,395.95
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	221.77
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,617.72
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 13434 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4-6-19		DISTRICT: P100		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:						
CUSTOMER: H... ..		LEASE: Vog...		WELL NO. 3						
ADDRESS:		COUNTY: Kiowa		STATE: K						
CITY:		STATE:		SERVICE CREW: Mike, Eric, Shauna						
AUTHORIZED BY:		JOB TYPE: CIVIL SURFACE								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
2741	27						4-6-19			
						ARRIVED AT JOB				3:20
						START OPERATION				6:15
1786	25					FINISH OPERATION				7:00
						RELEASED				
						MILES FROM STATION TO WELL				40

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
CE 101	Acid	54	175		9450.00
CE 102	60/4-102	54	175		10125.00
CE 103	Calliper	16	35		560.00
CE 109	Calliper	16	995		15920.00
CE 105	1/2" 1000' pipe	8%	1		200.00
CE 107	3/4" 1000' pipe	5%	1		500.00
CE 108	1" 1000' pipe	5%	1		175.00
E 101	1/2" 1000' pipe	101	90		18180.00
E 102	3/4" 1000' pipe	101	80		4080.00
E 103	1" 1000' pipe	101	630		12600.00
CE 20	1/2" 1000' pipe	45	1		100.00
CE 20	3/4" 1000' pipe	54	350		4700.00
CE 30	1" 1000' pipe	54	1		250.00
CE 30	3/4" 1000' pipe	54	1		175.00
SUB TOTAL					11,991.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		11,991.00

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

FIELD SERVICE ORDER NO.

Customer Herman L Loeb II	Lease No.	Date 4-6-16
Lease 10000	Well # 3	
Field Order # 13434	Station Pratt	Casing 8 5/8 Depth 665
Type Job CNW 8 5/8 SURFACE	Formation	County Kiowa State KS
		Legal Description L-30-19

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 175 A-con	RATE 370 cc	PRESS 24 54 C.F.	ISIP
Depth 660.0	Depth	From	To	Pre Pad 175 60/40	Max 102	370 cc	5 Min
Volume 41.9	Volume	From	To	Pad	Min		10 Min.
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 619.57	Packer Depth	From	To	Flush 39.4	Gas Volume		Total Load

Customer Representative LARRY	Station Manager Kevin Gorday	Treater MIKE KATTA
--------------------------------------	-------------------------------------	---------------------------

Service Units 37566	27463	19903	19860
Driver Names Mattal	ERST	Shan Line	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:25					ON LOCATION / SAFETY MEETING
6:00					Run 8 5/8 CASING
6:40					CSNG ON BOTTOM
6:49					hook TO CSNG / BREAK CIRC W. ROD
6:56	300		3	5.5	PUMP 3 bbl WATER
6:58	250		77	5	MIX 175 SKS A-CON
7:10	250		38	5	MIX 175 SKS 60/40 PD2
7:21	-		-	-	RELEASE PLUG
7:24	250		-	5	START DISPLACEMENT
7:33	500		39.4		plug down shut in well CMT TO SURFACE (10 bbl)
					JOB COMPLETE
					THANK YOU!
					MIKE KATTA
					SHAWN + PRATT