

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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)</i> <i>(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	BRENSING 1-10
Doc ID	1452810

Tops

Name	Top	Datum
Blaine Anhy	1289	1023
Chase	2511	-199
Heebner Shale	4130	-1818
Lansing 'A'	4286	-1974
Kansas City 'I'	4518	-2206
Kansas City 'J'	4576	-2264
BKC	4686	-2374
Marmaton	4729	-2417
Mississippi Warsaw	4896	-2584

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Brensing #1-10
Location: 549' FNL & 1802' FWL, Sec. 10-T28S-R20W, Kiowa Co., KS.
Licence Number: 15-097-21848-00-00 Region: Fralick West
Spud Date: 1/21/2019 Drilling Completed: 1/30/2019
Surface Coordinates: 549' FNL & 1802' FWL, Sec. 10-T28S-R20W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2301' K.B. Elevation (ft): 2312'
Logged Interval (ft): 3450' To: 5000' Total Depth (ft): 5000'
Formation: Mississippian at TD.
Type of Drilling Fluid: Freshwater/Gel to 3493'; Chemical Gel 3493' to 5000'

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

OPERATOR

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

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 277 S. Maple Dunes Ct.
Wichita, KS. 67235-7500

Cores

None Taken

DSTs

DST #1(Straddle Test - Lansing 'B' zone) 4317' - 4332' Test Times 30"-45"-30"-60" IFP Weak 0.75" Blow; FFP Weak Surface Blow Died in 5", no Blowback on SI's; REC: 5' SGCM(2%G, 98%M), no oil or water; IFP 15-21#, ISIP 41#, FFP 18-20#, FSIP 35#, IHP 2270#, FHP 2157#, BHT 108 Deg. F.(Staddle packer held OK).

DST #2(Kansas City 'J' zone) 4566' - 4594' Test Times 30"-45"-30"-60" IFP Weak 2.25" Blow, FFP Weak 1.5" Blow, no Blowback on SI's; REC: 65' MSW(44%M, 56%W) CI 26,000 (MudCo. Check), no oil or gas; IFP 16-38#, ISIP 1531# FFP 40-57#, FSIP 1523#, IHP 2445#, FHP 2305#, BHT 110 Deg. F.

DST #3(Miss. Warsaw Dolomite) 4859' - 4913' Test Times 15"-45"-45"-90" IFP Strong Blow Gas to Surface in 6", FFP Gauged gas throughout Max. 1305 MCFG/45"(took gas sample - gas burns blue/orange flame), no Blowback on SI's; REC: 140' SGCM(2%G, 98%M), no water; IFP 345-267#, ISIP 1456#, FFP 244-259#, FSIP 1453#, IHP 2555#, FHP 2630#, BHT 112 Deg. F.

DST #4(Miss. Warsaw) 4914' - 4930' Test Times 30"-45"-30"-60" IFP Weak 1" Blow, FFP Weak Blow built to 4.5", no Blowback on SI's; REC: 90' Gas in Pipe, 30' OCM(5%O, 95%M), no water; IFP 15-23#, ISIP 610#, FFP 21-27#, FSIP 796#, IHP 2450#, FHP 2338#, BHT 109 Deg. F.

Comments

1/21/19 MIRU Sterling Drilling Co. Rig #4, Spud at 9:15 PM; 1/22/19 TD. 482' - Rig up Casing Crew to run 8 5/8" Casing; 1/23/19 Drilling at 1020'; 1/24/19 Drilling at 2900'; 1/25/19 TD. 4035' - Bit Trip; 1/26/19 TD. 4447' Short Trip for DST #1; 1/27/19 TD. 4594' - CFS; 1/28/19 Drilling at 4750'; 1/29/19 TD. 4913' - DST #3; 1/30/19 Drilling at 4965' - RTD. 5000' at 8:45 AM.; Logged well(Halliburton); 1/31/19 RTD. 5000' LTD. 5000' - Running 5 1/2" Production Casing - PD. at 12:00 Noon.

Set new 8 5/8"(23#) Surface Casing at 478' KB. with 300 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 9:30 AM. 1/22/19.

Set new 5 1/2"(15.5#) Production Casing at 4998' with 200 sacks of cement. PD. at 12:00 Noon on 1/31/19.

Surveys: 1.0 Deg. at 482'(Surface Casing); 0.50 Deg. at 4035'(Bit Trip); 0.50 Deg. at 4447'(DST #1); 0.75 Deg. at 4913'(DST #3); 0.25 Deg. at 5000' RTD.


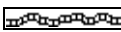
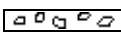
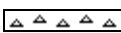
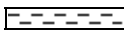







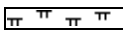
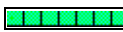
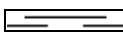
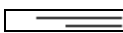
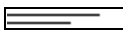



Pipe Strap at 4035'(Bit Trip): Strap 1.33' Short to the Board, no correction made to the Board.

After review of the Halliburton logs, DST and sample data, and evidence of commercial amounts of recoverable hydrocarbons, the operator elected to set 5 1/2" production casing for completion in the Mississippian.








































































LOG TOPS: Blaine Anhy. 1289(+1023), Chase 2511(-199), Stotler Lmst. 3474(-1162), Howard 3676(-1364), Heebner Shale 4130(-1818), Toronto 4147(-1835), Brown Lmst. 4278(-1966), Lansing 'A' 4286(-1974), Kansas City 'I' 4518(-2206), Kansas City 'J' 4576(-2264), Stark Shale 4608(-2296), Hertha 4650(-2338), Base Kansas City 4686(-2374), Marmaton 4729(-2417), Pawnee 4780(-2468), Cherokee Shale 4827(-2515), Mississippi Warsaw 4896(-2584).

NOTE: Portions of this log were shifted for correlation purposes with the Halliburton logs. Also, the Gamma Ray could not be imported onto this log.

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**
 Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint

- Vuggy
SORTING
 Well
 Moderate
 Poor

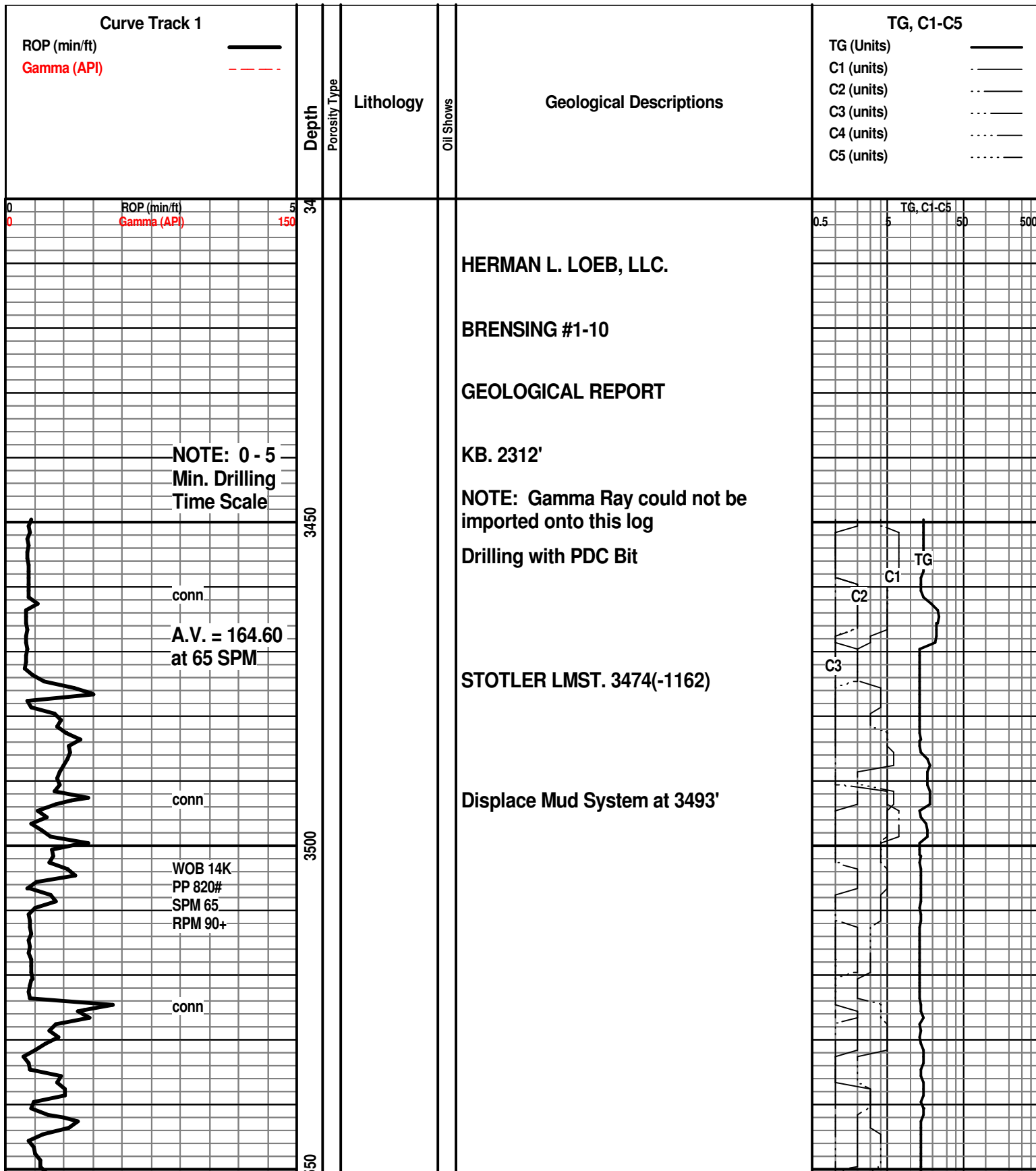
- ROUNDING**
 Rounded
 Subrnd
 Subang
 Angular

- Spotted
 Ques
 Dead

- EVENT**
 Rft
 Sidewall

- OIL SHOW**
 Even

- INTERVAL**
 Core
 Dst



HERMAN L. LOEB, LLC.

BRENSING #1-10

GEOLOGICAL REPORT

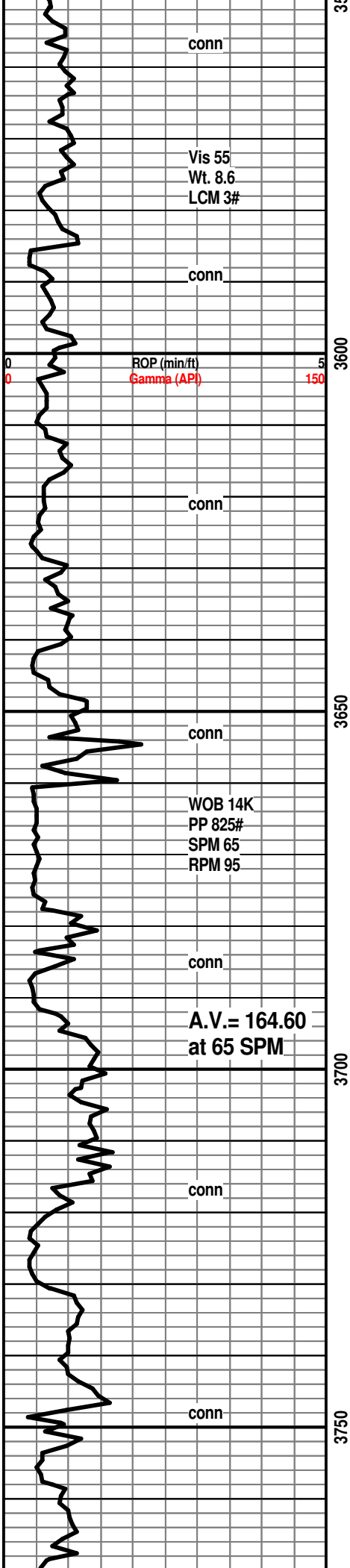
KB. 2312'

NOTE: Gamma Ray could not be imported onto this log

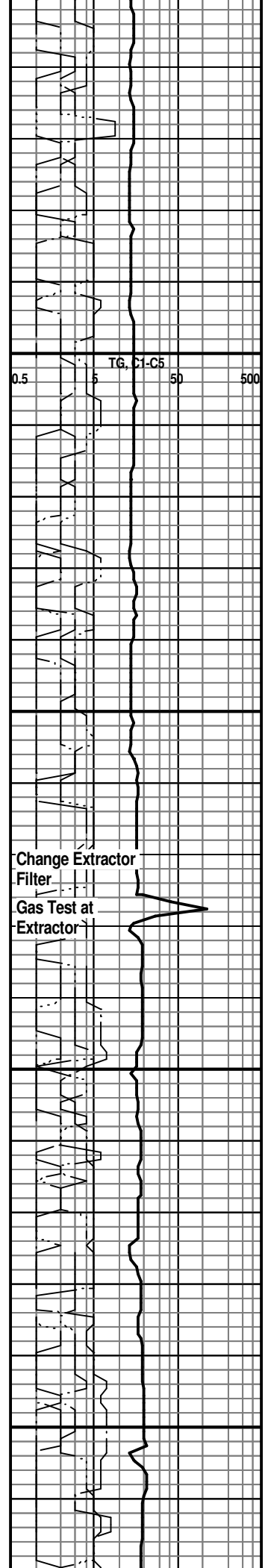
Drilling with PDC Bit

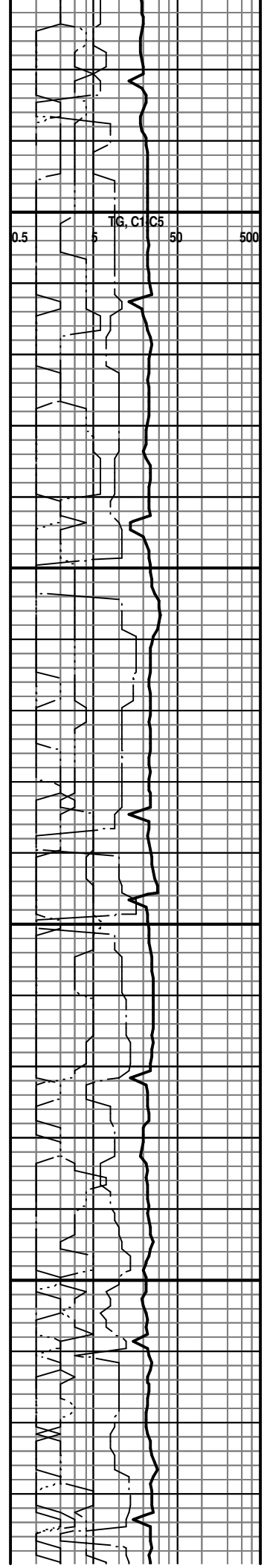
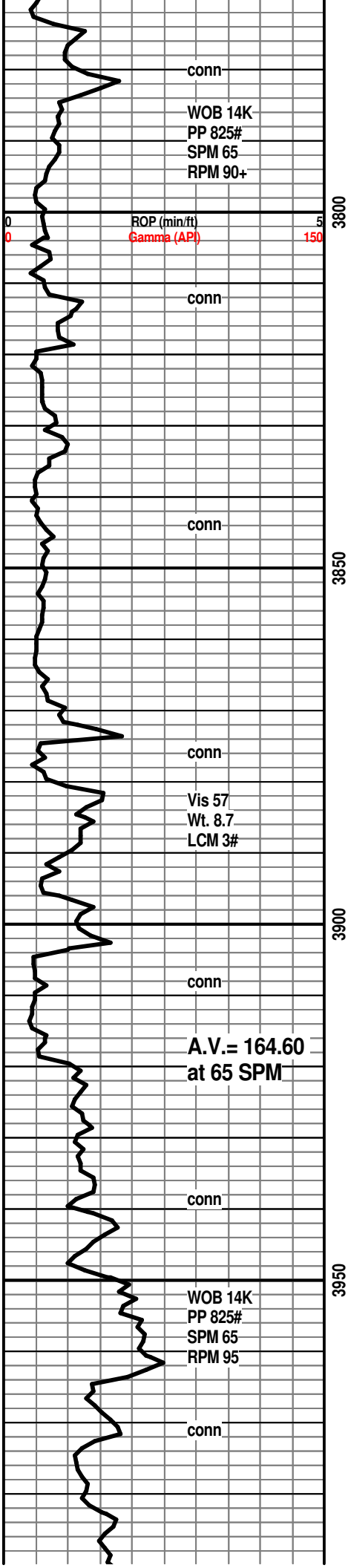
STOTLER LMST. 3474(-1162)

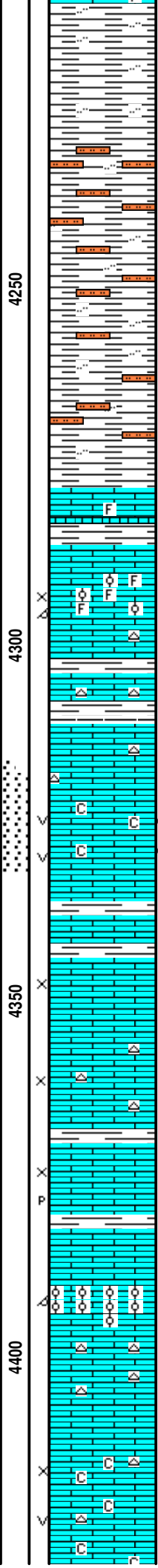
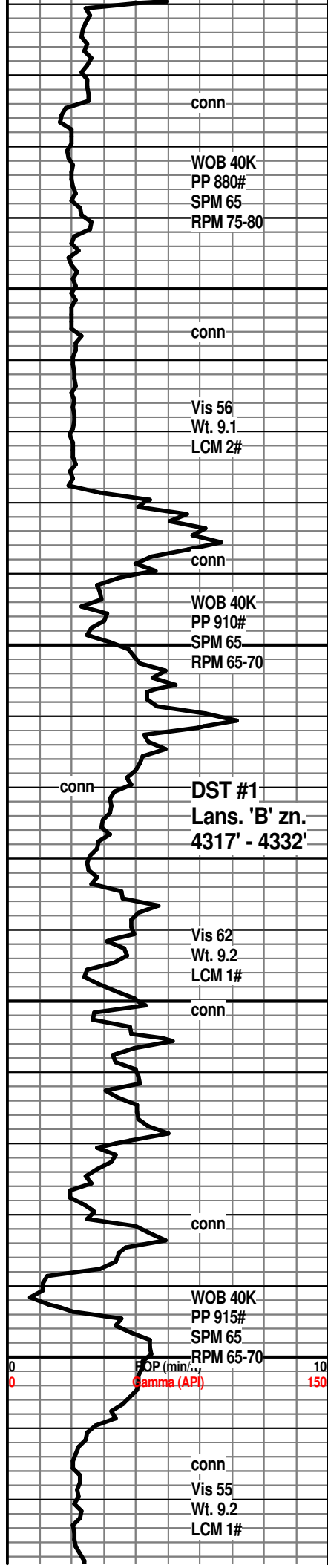
Displace Mud System at 3493'



HOWARD 3676(-1364)







SH; It to med gy, firm, occ silty

SH; It to med gy, silty w/interbdd sltst, mica ip, platy

SH; It to med gy, silty w/interbdd sltst

BROWN LMST. 4278(-1966)
LM; med/dk brn, scat foss, micritic ip, tite

LANSING 'A' 4286(-1974)
LM; tan to lt brn, foss - oolitic ip, most well cem, poor interpart and occ oomoldic por, dull to lt yel min fluor, no stn or odor, no gas kick

LM; It to med brn, dense, scat lt brn cht, tite

LANSING 'B' 4311(-1999)
LM; off wh, fxln to micritic, most tite, rare wh to off wh cht, no fluor, no stn or odor, ns.

LM; wh, off wh, f to med xln, fair vug por, uniform brite yel fluor, SFO(light oil), few gas bubbles, fair/gd odor, fair/ gd cut, spotted to even lt brn oil stn, occ chalky mtx

DST #1(Straddle Test) Lansing 'B' zone 4317' - 4332'

LM; tan to lt brn, fxln, scat poor to fair interxln por, no fluor, no stn or odor, ns.

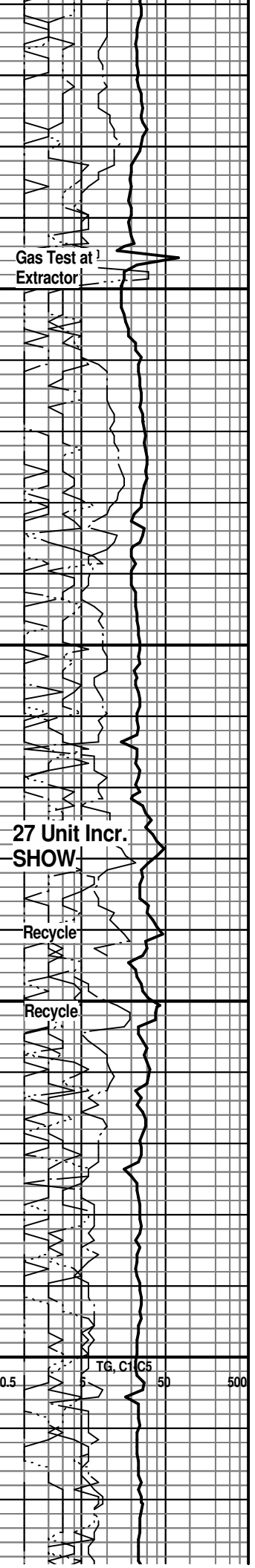
LM; It to med brn, f to med xln, scat brn cht, poor to no interxln por, no stn or odor, ns.

LANSING 'E' ZONE 4370(-2058)
LM; tan to cream, f to med xln, fair interxln with scat p-p por, dull yel to no fluor, no stn or odor, minor chalky mtx, ns.

LANSING 'G' PORO. 4388(-2076)
LM; lt brn, oolitic, med to lrg molds - oomoldic por, med yel min fluor, no stn, odor, or gas kick

LM; med brn, dense, scat gy to brn cht, no vis por, tite

LM; tan to cream, buff, fxln, poor interxln w/occ small vug por, chalky ip, scat cht, dull yel min fluor, no stn or odor, no gas kick



A.V. = 164.40
at 65 SPM

conn CFS. at 4447'
MudCo. Mud
Check at 4447'
Vis 62 Wt. 9.3
WL 8.8 CI 9000
PH 10.0 LCM 1#

conn

Vis 65
Wt. 9.2
LCM 1#

conn

WOB 40K
PP 900#
SPM 65
RPM 63

conn

MudCo. Mud
Check at 4572'
Vis 58 Wt. 9.3+
WL 9.2 CI 8000
PH 10.0 LCM 2#

conn

DST #2
K.C. 'J' Zn.
4566' - 4594'

CFS. at 4594'

RQP (min/ft)
Gamma (API)

conn

A.V. = 164.40
at 65 SPM

conn

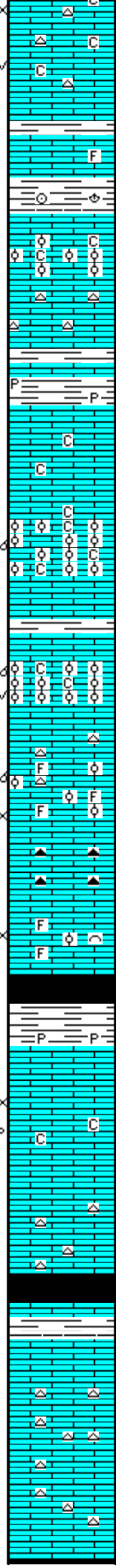
Vis 62
Wt. 9.3
LCM 1#

4450

4500

4550

4600



LM; tan to off wh, cream, most med xln, fair interxln w/some vug por, chalky, ns.

LM; med brn, blocky, rare foss mat, tite
SH; med gy, gy grn, platy, foss ip.

LANSING/K.C. 'H' 4459(-2147)

LM; off wh, wh, oolitic, poor to fair moldic por, dull to lt yel min fluor, chalky ip, no stn/odor, ns.

LM; off wh, buff, most dense - micritic, scat wh cht, no vis por, ns.

SH; lt to med gy, platy, occ pyr

LM; off wh, tan, f to med xln, most dense, rare soft chalky mtx, no vis por, no fluor, ns.

LM; tan to lt brn, oolitic, most med size molds, gd oomoldic por, brittle ip, scat wh chalk and chalky mtx, lt yel min fluor, no stn or odor, ns.

K.C. 'I' ZONE 4518(-2206)

LM; tan, oolitic, well dev. moldic and vug por, brittle, med to lrg molds, occ chalky mtx, lt yel min fluor, no stn or odor, no gas kick, barren

LM; tan to cream, foss - partly oolitic, fair moldic and interpart por, scat wh cht, dull yel min fluor, no stn or odor, ns.

LM; tan to cream, hd, blocky, scat smoky/gy brn cht, tite

LM; lt brn, buff, foss, scat cse foss frags, poor interpart por, dull yel fluor, no stn or odor, ns.

SH; blk, carb ip, soft to blocky, trc gas

K.C. 'J' ZONE 4576(-2264)

LM; tan - off wh, f to med xln, fair interxln and p-p por, trace of lt brn stn, scat med yel fluor, VSSFO, faint odor, fair cut, some chalky mtx

DST #2: K.C. 'J' zone 4566' - 4594'

LM; tan to lt brn, most dense - micritic, blocky, scat gy to off wh cht, no vis por, ns.

STARK SH. 4608(-2296)

SH; blk, carb ip, platy, trc gas

SWOPE 4617(-2305)

LM; tan to med brn, hd, scat cse spar calc xtals w/med yel min fluor, cherty, no vis por, no stn or odor, ns.

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

SH; dk gy - blk, platy - fiss

B.U./Trip Gas

Changed glycol in extractor jar - plugged w/mud

30 Unit Incr. Shale

Recycle

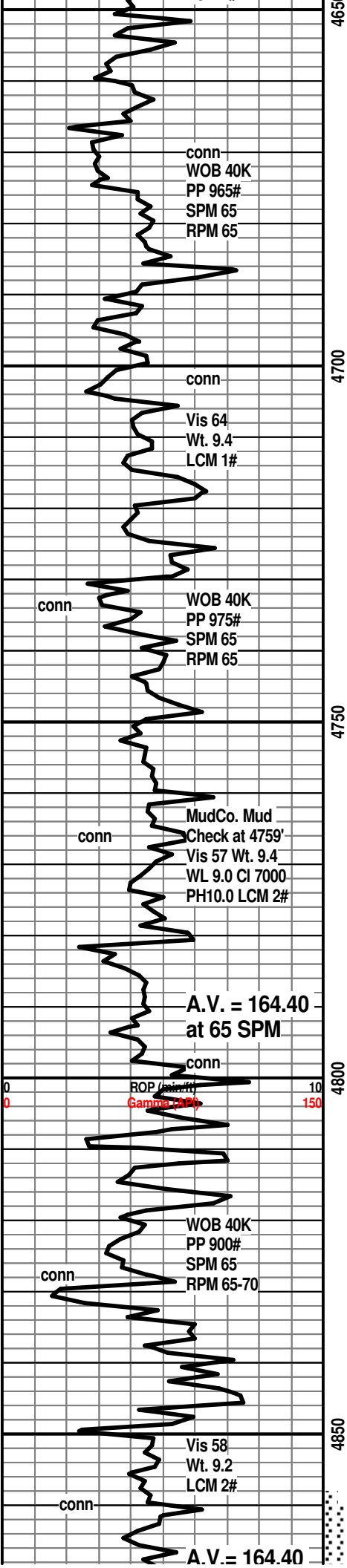
16 Unit Incr. SHOW

TG, G-C5

27 Unit Incr. Shale

Recycle

Recycle



HERTHA 4650(-2338)
LM; off wh, wh, tan, very cherty w/abnt gy foss cht, blocky, no vis por, no fluor, ns.

LM; lt to med brn, highly foss, partly oolitic, poor to fair interpart por, no fluor, no stn, ns.

LM; med to dk brn, blocky, scat dk brn to occ blk cht, no vis por, tite

BASE KANSAS CITY 4686(-2374)
SH; rust red, grn, varic, some sticky - soft, some dk gy to blk sh.

PLEASANTON 4695(-2383)
LM; med gy brn, foss ip, tite

SH; grn, gy grn, some varic, platy, occ foss

LM; tan to lt brn, fxln to dense, blocky, no vis por, no stn or odor, ns.

LM; tan to lt brn, most dense - micritic, scat gy cht, tite

SH; blk, grn, gy grn, platy, occ foss.

MARMATON 4729(-2417)
LM; med brn, med xln ip w/grn clay incl, dense, no vis por, ns, interbdd gy grn and varic shales

SH; grn, gy grn, fiss, occ foss

ALTAMONT 4747(-2435)
LM; tan to lt brn, most micritic, blocky, rare foss mat, scat brn and gy brn cht, no vis por, scat lt yel min fluor, no stn or odor, ns.

LM; tan to lt brn, rare well cem foss mat, most dense, scat smoky brn/amber cht, ns.

LM; med brn, foss - partly oolitic, most tite, scat lt yel min fluor, no vis stn, no odor, no gas kick

SH; dk gy, rare blk, platy

PAWNEE 4780(-2468)
LM; tan to lt brn, buff, fxln to micritic, scat frac w/pyr and blk tar/gils on frac faces, v. dull yel fluor, no odor, no gas kick, interbdd gy to tan cht

SH; med gy, grn, waxy ip.

LM; tan to lt brn, hd, cherty, tite

SH; blk, carb, rare pyr, gassy ip.

LM; dk gy, gy brn, hd

LM; lt to med brn, foss - scat ooids/pellets, poor interpart por, no fluor, no stn or odor, ns.

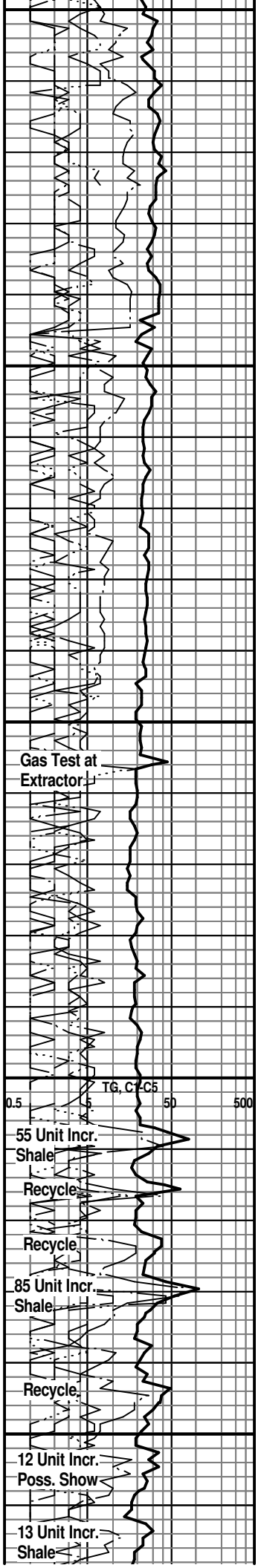
CHEROKEE SHALE 4827(-2515)
SH; blk, carb, gassy ip.

LM; med to dk brn, gy brn, most dense - micritic, interbdd argil lmst, no vis por, no fluor, no stn or odor, ns.

SH; dk gy - blk, platy

LM; med to occ dk brn, med xln to micritic, most dense, few pcs w/dk brn spotted oil stn, faint odor, dull yel fluor, rare small vug por w/stn, golden yel fluor, gd cut

SH; dk gy - blk, platy



at 65 SPM

LM; lt to med brn, hd, blocky, most micritic, ns.

SH; dk gy - blk, platy

LM; lt to med brn, hd, blocky, most micritic, ns.

BASE OF CHER. LMST. 4884(-2572)

SH; grn, dk gy, some varic, interbdd thin lmst

MISSISSIPPI 4896(-2584)

DOL; tan, lt brn(Oil stn), sucrosic, occ glau, fair to occ gd interxln por, golden yel flur, gd odor, most w/spotted to even stn, gas bubbles

DOL; off wh, lt brn, sucrosic, cherty ip, scat vug por, faint odor, spotty stn, some gils, lt yel flur

DST #3: Miss. Dolo. 4859' - 4913'

LMY DOL; off wh, tan, some tite, golden yel flur, faint odor, poor interxln w/scat vug por

LM; off wh, cse xln, dolo, glau, spotty med brn oil stn, most tite, fair odor, golden brn flur

DOL; off wh, sucrosic, cherty ip, spotted oil stn, strong odor, med yel flur, gas bub, chalky ip.

DST #4: Miss. Dolo. 4914' - 4930'

CHTY DOL & DOL; tan, off wh, sucrosic, abnt fresh cht, scat lt brn oil stn, strong odor, occ med to brite yel flur, trc FO., fair interxln and vug por, fair to gd cut in some, few gas bubbles, no evident gas kick though

DOL; tan, buff, sucrosic, fair interxln por, rarely cherty, no vis stn, no odor, no flur, no gas kick

DOL; med brn, cherty, most dense - lmy ip, much lt gy to off wh fresh cht, scat transl. qtz xtals, no flur, no stn or odor, looks tite

DOL; sucrosic, hd, lmy ip, cherty, no vis por, no flur, stn or odor, tite

CHT; lt blue-gy, wh, off wh, fresh, some spicular, looks tite, no stn, flur or odor

RTD. 5000' at 8:45 AM. 1/30/19

LTD. 5000'

Halliburton "Quad Stack" ACRT, NEU/DEN w/PE, Microlog, Sonic

11 Unit Incr. Shale

17 Unit Incr.

32 Unit Incr.

68 Unit Incr.

SHOW 1

40 Unit Incr.

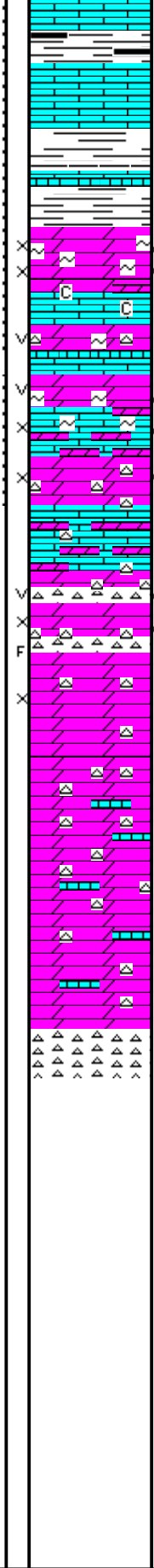
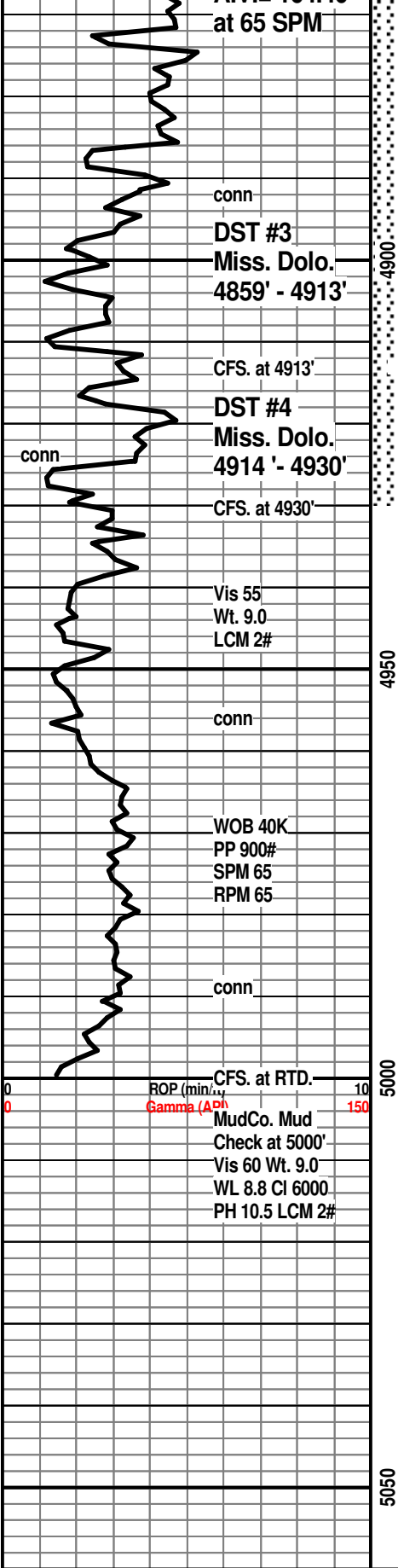
SHOW 1

Mud gassy after DST #3 - Gas readings unreliable

Gas line froze up

Readings OK

0.5 5 TG, C1-C5 50 500



at 65 SPM

LM; lt to med brn, hd, blocky, most micritic, ns.

SH; dk gy - blk, platy

LM; lt to med brn, hd, blocky, most micritic, ns.

BASE OF CHER. LMST. 4884(-2572)

SH; grn, dk gy, some varic, interbdd thin lmst

MISSISSIPPI 4896(-2584)

DOL; tan, lt brn(Oil stn), sucrosic, occ glau, fair to occ gd interxln por, golden yel flur, gd odor, most w/spotted to even stn, gas bubbles

DOL; off wh, lt brn, sucrosic, cherty ip, scat vug por, faint odor, spotty stn, some gils, lt yel flur

DST #3: Miss. Dolo. 4859' - 4913'

LMY DOL; off wh, tan, some tite, golden yel flur, faint odor, poor interxln w/scat vug por

LM; off wh, cse xln, dolo, glau, spotty med brn oil stn, most tite, fair odor, golden brn flur

DOL; off wh, sucrosic, cherty ip, spotted oil stn, strong odor, med yel flur, gas bub, chalky ip.

DST #4: Miss. Dolo. 4914' - 4930'

CHTY DOL & DOL; tan, off wh, sucrosic, abnt fresh cht, scat lt brn oil stn, strong odor, occ med to brite yel flur, trc FO., fair interxln and vug por, fair to gd cut in some, few gas bubbles, no evident gas kick though

DOL; tan, buff, sucrosic, fair interxln por, rarely cherty, no vis stn, no odor, no flur, no gas kick

DOL; med brn, cherty, most dense - lmy ip, much lt gy to off wh fresh cht, scat transl. qtz xtals, no flur, no stn or odor, looks tite

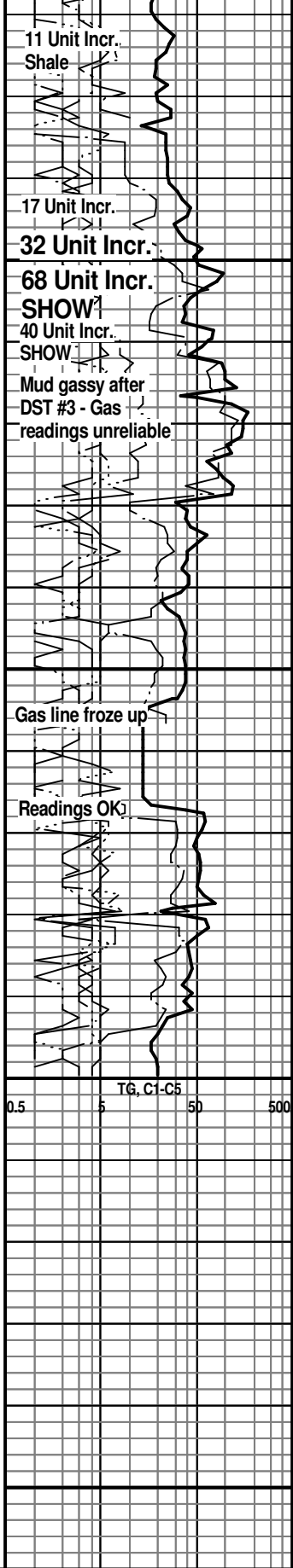
DOL; sucrosic, hd, lmy ip, cherty, no vis por, no flur, stn or odor, tite

CHT; lt blue-gy, wh, off wh, fresh, some spicular, looks tite, no stn, flur or odor

RTD. 5000' at 8:45 AM. 1/30/19

LTD. 5000'

Halliburton "Quad Stack" ACRT, NEU/DEN w/PE, Microlog, Sonic



CFS. at RTD.

ROP (min) 10

Gamma (AD) 150

MudCo. Mud

Check at 5000'

Vis 60 Wt. 9.0

WL 8.8 CI 6000

PH 10.5 LCM 2#

4900

4950

5000

5050



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

10-28S-20W Kiowa
Brensing 1-10
Job Ticket: 64891 **DST#: 1**
Test Start: 2019.01.26 @ 11:00:00

Mud and Cushion Information

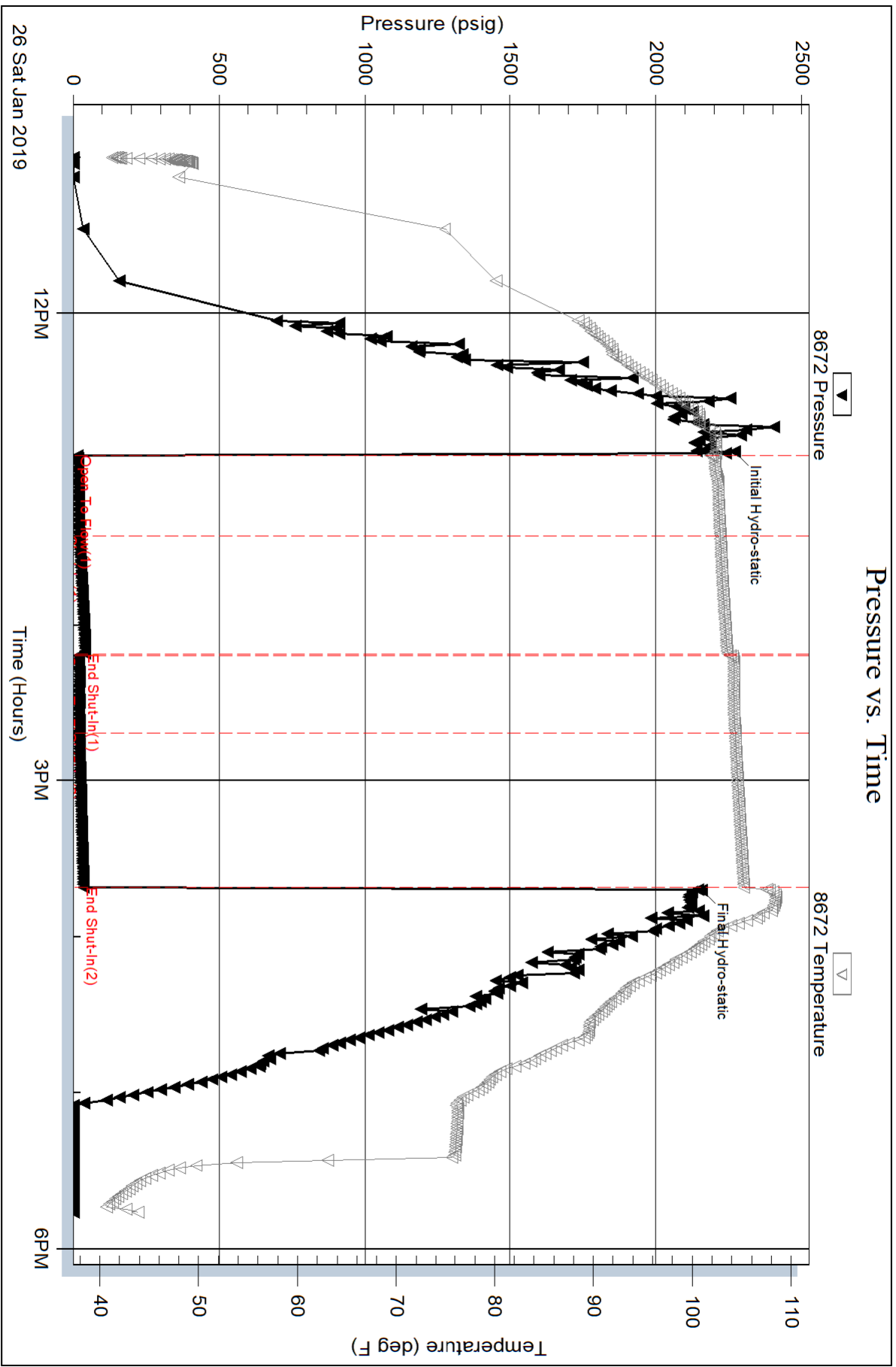
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 0.02 inches			

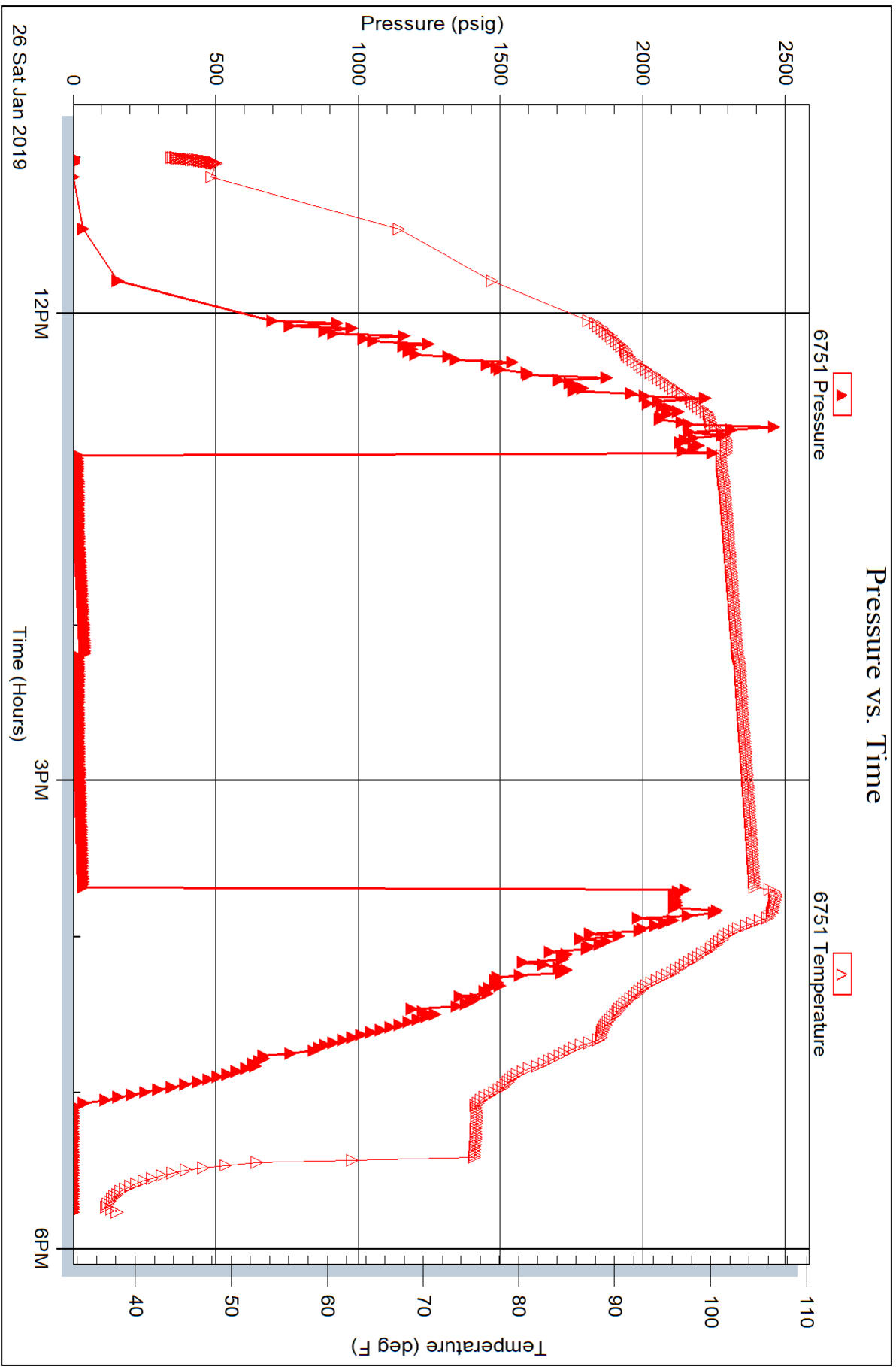
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SGCM 2%G 98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 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
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

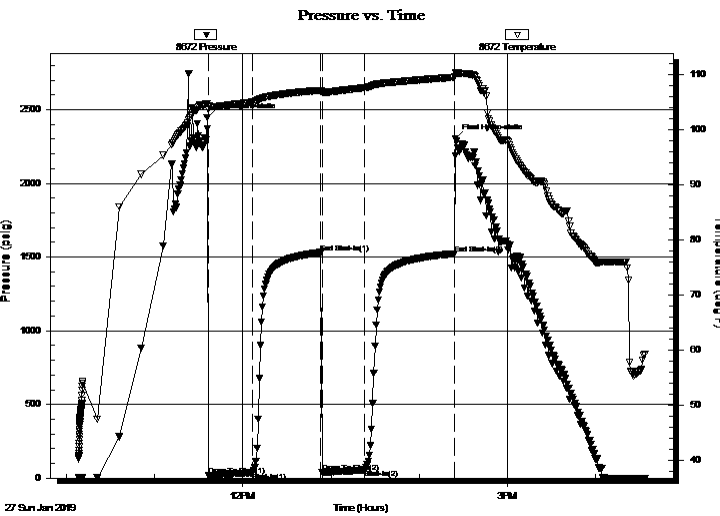
10-28S-20W Kiowa
Brensing 1-10
Job Ticket: 64892 **DST#: 2**
Test Start: 2019.01.27 @ 10:08:06

GENERAL INFORMATION:

Formation: **Lansing "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:36:38
Time Test Ended: 16:34:08
Interval: **4566.00 ft (KB) To 4594.00 ft (KB) (TVD)**
Total Depth: 4594.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2312.00 ft (KB)
2301.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8672 Inside
Press@RunDepth: 56.60 psig @ 4567.00 ft (KB) Capacity: psig
Start Date: 2019.01.27 End Date: 2019.01.27 Last Calib.: 2019.01.27
Start Time: 10:08:07 End Time: 16:34:08 Time On Btm: 2019.01.27 @ 11:35:38
Time Off Btm: 2019.01.27 @ 14:24:53

TEST COMMENT: IF: Weak Blow , Built to 2 1/4 inch
IS: No Blow Back
FF: Weak Blow , Built to 1 1/2 inch
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2444.91	104.81	Initial Hydro-static
1	15.96	103.64	Open To Flow (1)
31	38.39	105.10	Shut-In(1)
78	1530.99	107.17	End Shut-In(1)
79	40.40	106.84	Open To Flow (2)
108	56.60	107.68	Shut-In(2)
169	1522.94	109.60	End Shut-In(2)
170	2305.03	110.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCW 44%M 56%W	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

10-28S-20W Kiowa
Brensing 1-10
Job Ticket: 64892 **DST#: 2**
Test Start: 2019.01.27 @ 10:08:06

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	39000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MCW 44%M 56%W	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW was .19 @ 69 degrees

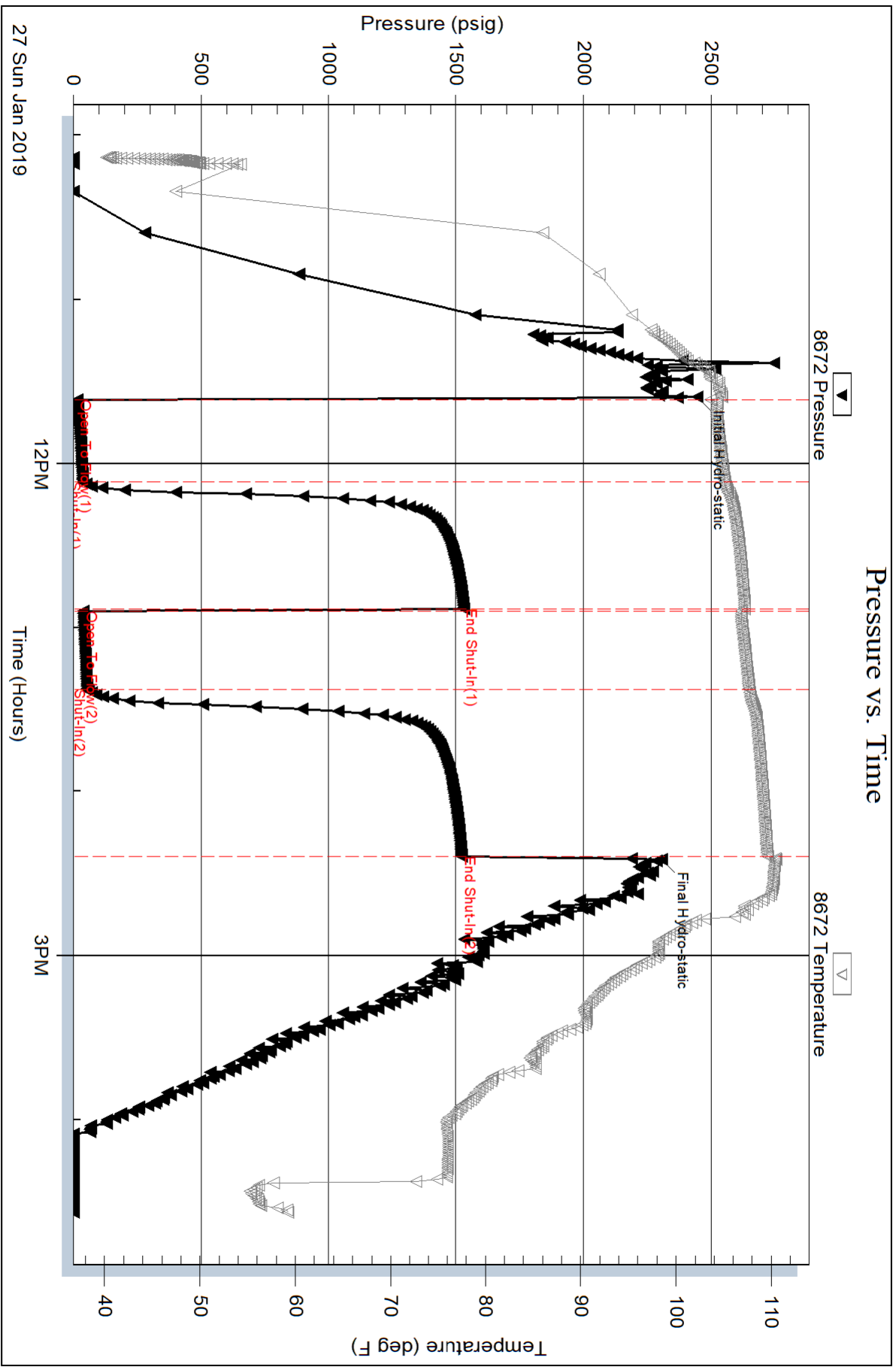
Serial #: 8672

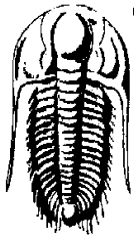
Inside

Herrnan L Loeb

Brenging 1-10

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

10-28S-20W Kiowa
Brenging 1-10
Job Ticket: 64893 **DST#: 3**
Test Start: 2019.01.29 @ 01:51:00

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:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
140.00	SGCM 2%G 98%M	0.688

Total Length: 140.00 ft Total Volume: 0.688 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

10-28S-20W Kiowa
Brenging 1-10
Job Ticket: 64893 **DST#: 3**
Test Start: 2019.01.29 @ 01:51:00

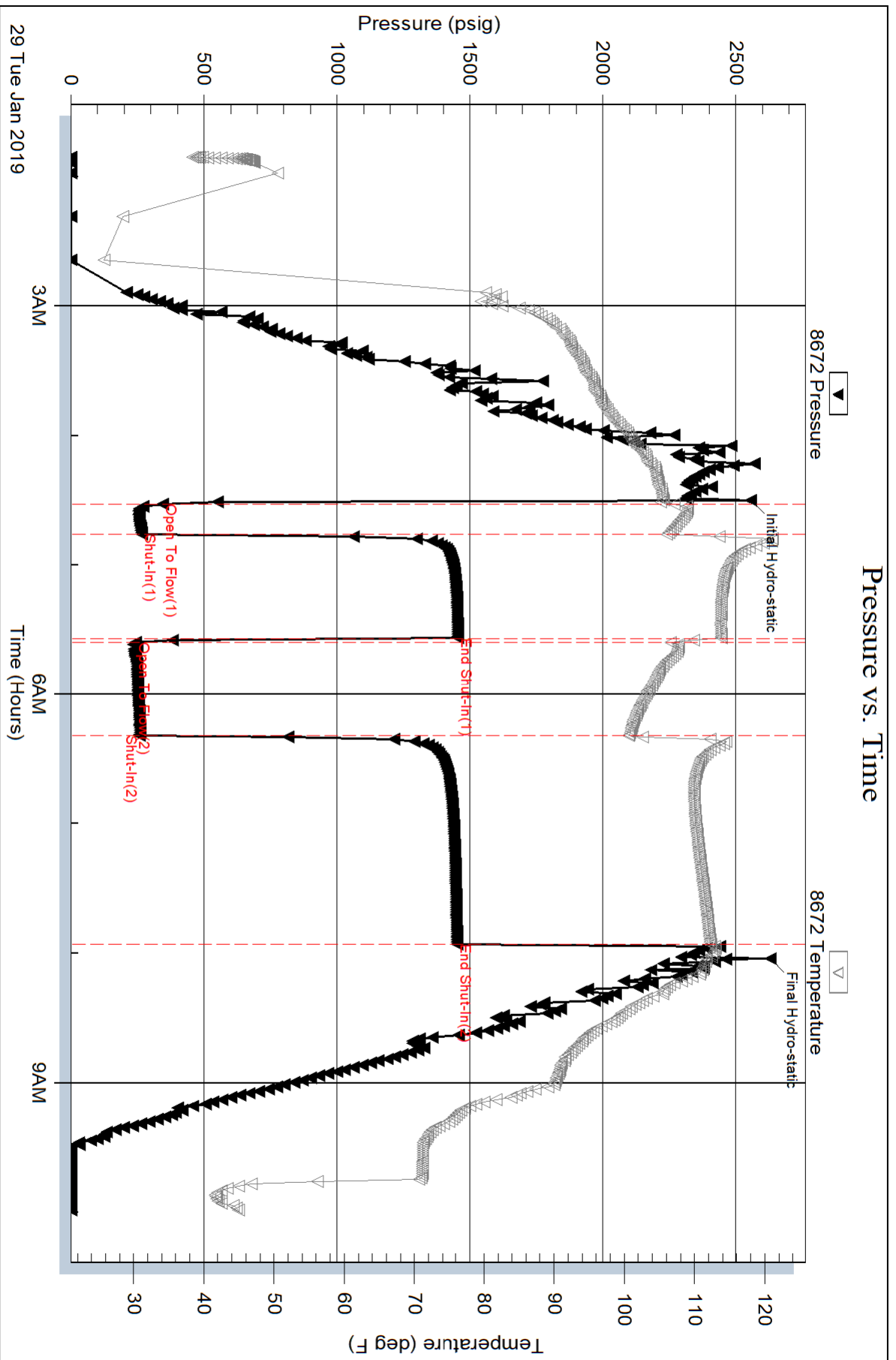
Gas Rates Information

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	0.75	38.00	818.48
1	10	0.75	38.00	818.48
1	15	0.75	41.00	865.34
2	10	1.00	25.00	1132.70
2	20	1.00	28.00	1218.95
2	30	1.00	30.00	1276.45
2	40	1.00	30.00	1276.45

Pressure vs. Time

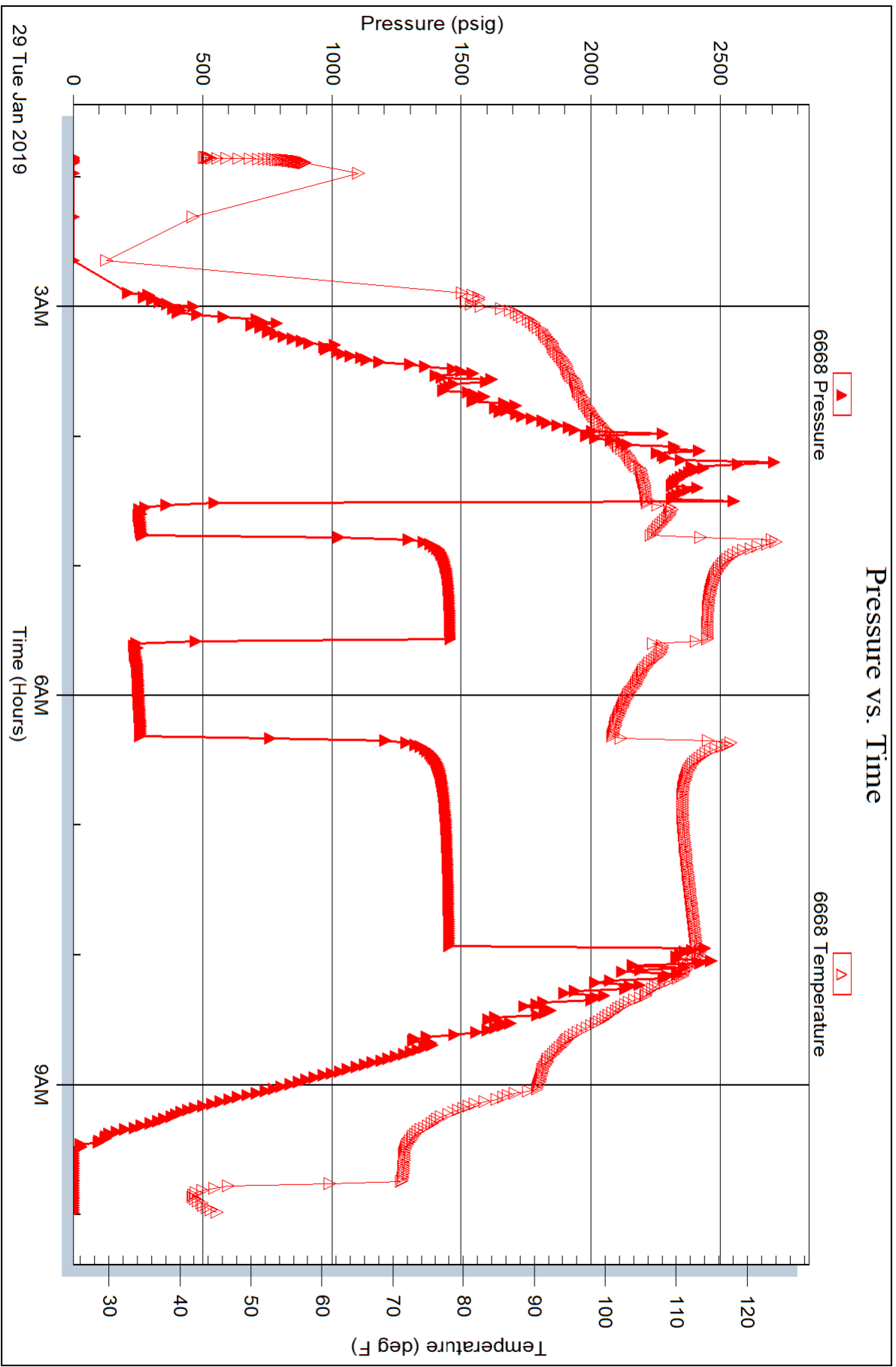


Serial #: 6668

Outside Herran L Loeb

Breasing 1-10

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

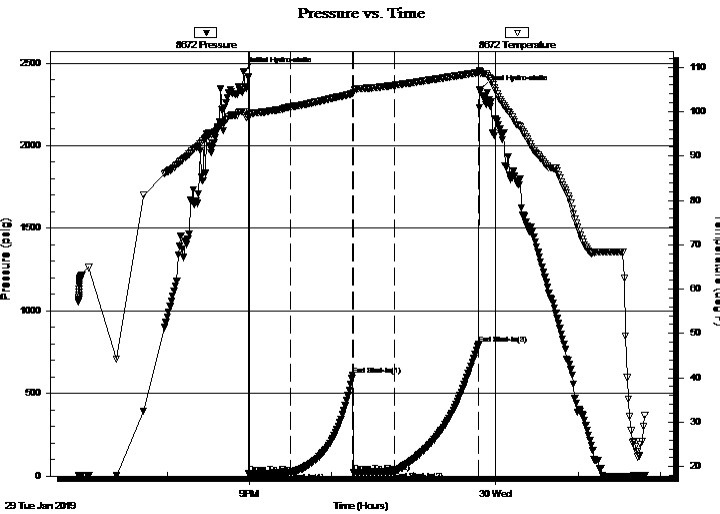
10-28S-20W Kiowa
Brensing 1-10
Job Ticket: 64894 **DST#: 4**
Test Start: 2019.01.29 @ 18:55:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:59:02
Time Test Ended: 01:49:02
Interval: **4914.00 ft (KB) To 4930.00 ft (KB) (TVD)**
Total Depth: 4930.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2312.00 ft (KB)
2301.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8672 Inside
Press@RunDepth: 22.57 psig @ 4915.00 ft (KB) Capacity: psig
Start Date: 2019.01.29 End Date: 2019.01.30 Last Calib.: 2019.01.30
Start Time: 18:55:01 End Time: 01:49:02 Time On Btm: 2019.01.29 @ 20:55:47
Time Off Btm: 2019.01.29 @ 23:48:17

TEST COMMENT: IF: Weak Blow , Built to 1 inch
IS: No Blow Back
FF: Weak Blow , Built to 4 1/2 inches
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2450.00	99.98	Initial Hydro-static
4	14.82	98.50	Open To Flow (1)
35	22.57	101.07	Shut-In(1)
80	610.47	104.07	End Shut-In(1)
80	21.34	104.25	Open To Flow (2)
110	26.90	105.91	End Shut-In(2)
172	796.22	108.82	End Shut-In(3)
173	2338.03	109.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90 GIP	0.00
30.00	SOCM 5%O 95%M	0.15

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

10-28S-20W Kiowa
Brenging 1-10
Job Ticket: 64894 **DST#: 4**
Test Start: 2019.01.29 @ 18:55:00

Mud and Cushion Information

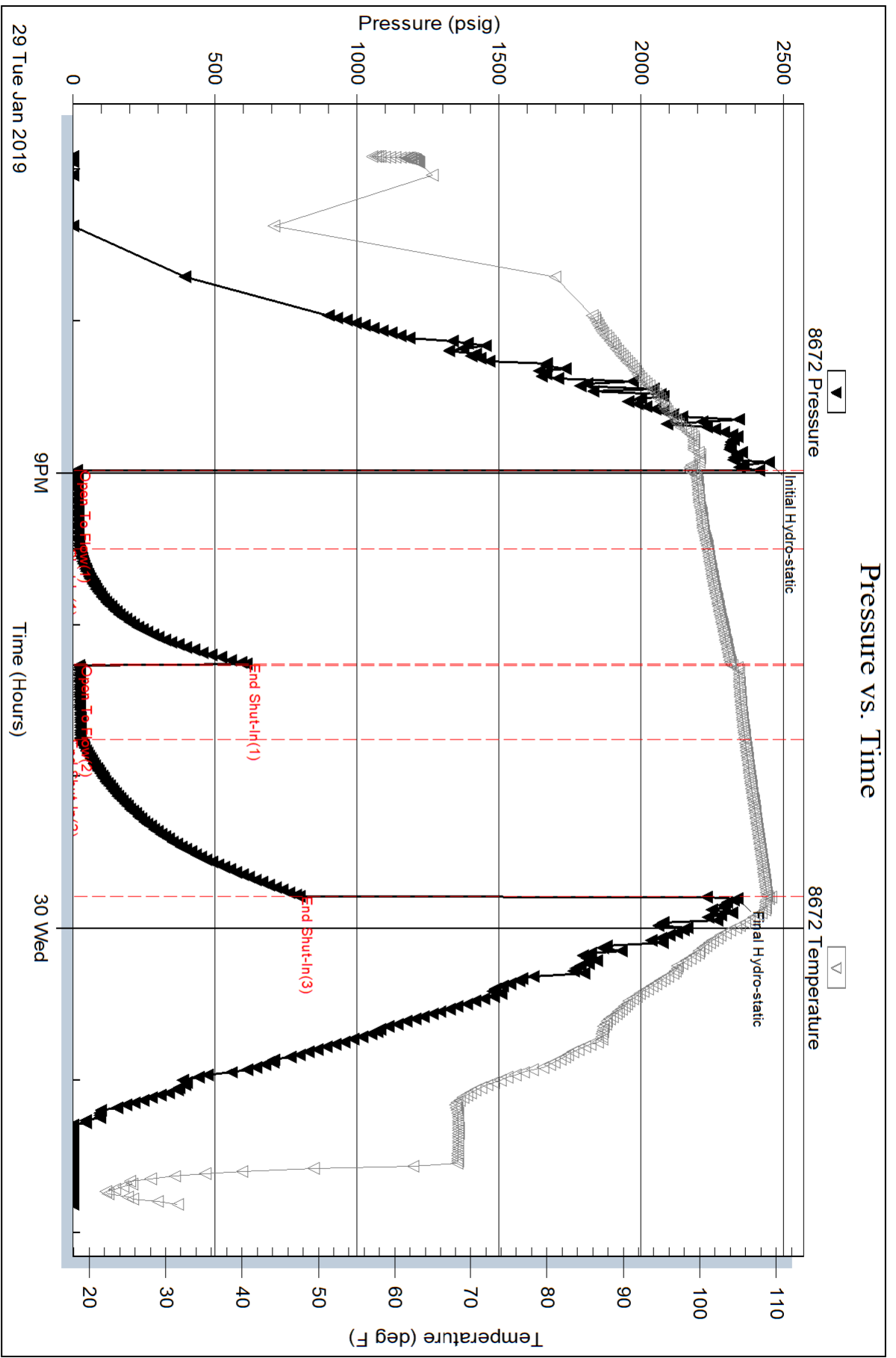
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	90 GIP	0.000
30.00	SOCM 5%O 95%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

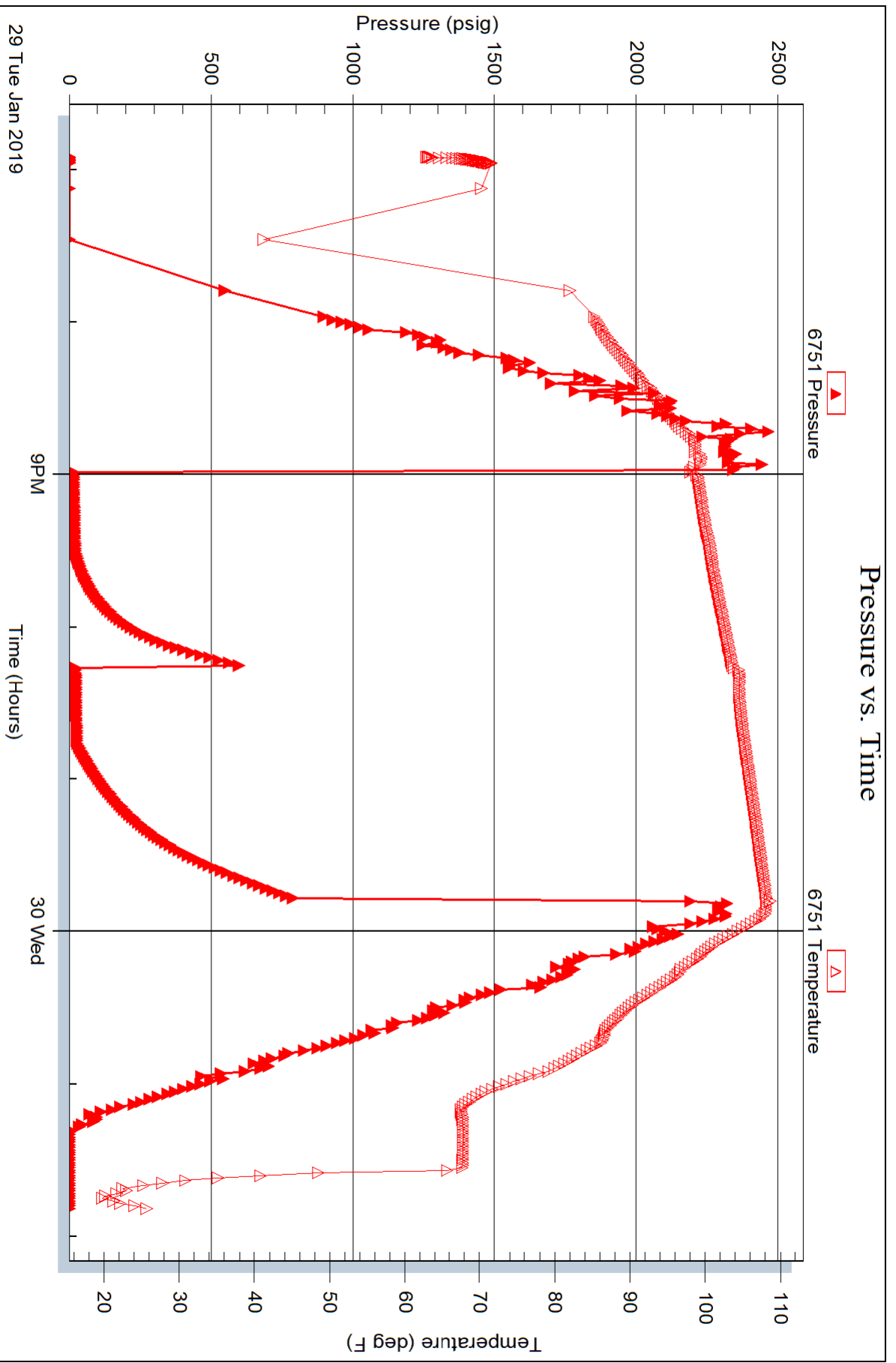


Serial #: 6751

Outside Herran L Loeb

Brenging 1-10

DST Test Number: 4





1/28
2

8

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	01/23/2019
INVOICE NUMBER			
92894131			

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 Brensing 10
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT

6076 - 6420 - BRENSING

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41156743	19919		Net - 30 days	02/22/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 01/22/2019 to 01/22/2019				
0041156743				
171817208L Cement-New Well Casing/Pi 01/22/2019 CEMENT SURFACE CASING				
A Con' Blend	150.00	EA	11.16	1,674.00 T
60/40 POZ	150.00	EA	7.20	1,080.00 T
Celloflake	76.00	LB	2.22	168.72 T
Calcium Chloride	810.00	LB	0.63	510.30 T
Top Rubber Cement Plug, 8 5/8"	1.00	EA	135.00	135.00
Baffle Plate Aluminum, 8 5/8" (Blue)	1.00	EA	102.00	102.00
Guide Shoe - Regular, 8 5/8" (Blue)	1.00	EA	228.00	228.00
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	2.70	135.00
Heavy Equipment Mileage	100.00	MI	4.50	450.00
Proppant & Bulk Del. Chgs., per ton mil	675.00	EA	1.50	1,012.50
Depth Charge; 0-500'	1.00	EA	600.00	600.00
Blending & Mixing Service Charge	300.00	SK	0.84	252.00
Plug Container Utilization Charge	1.00	EA	150.00	150.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	105.00	105.00

PAID
 87672
 FEB 14 2019
 SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,602.52
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	257.48
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,860.00
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

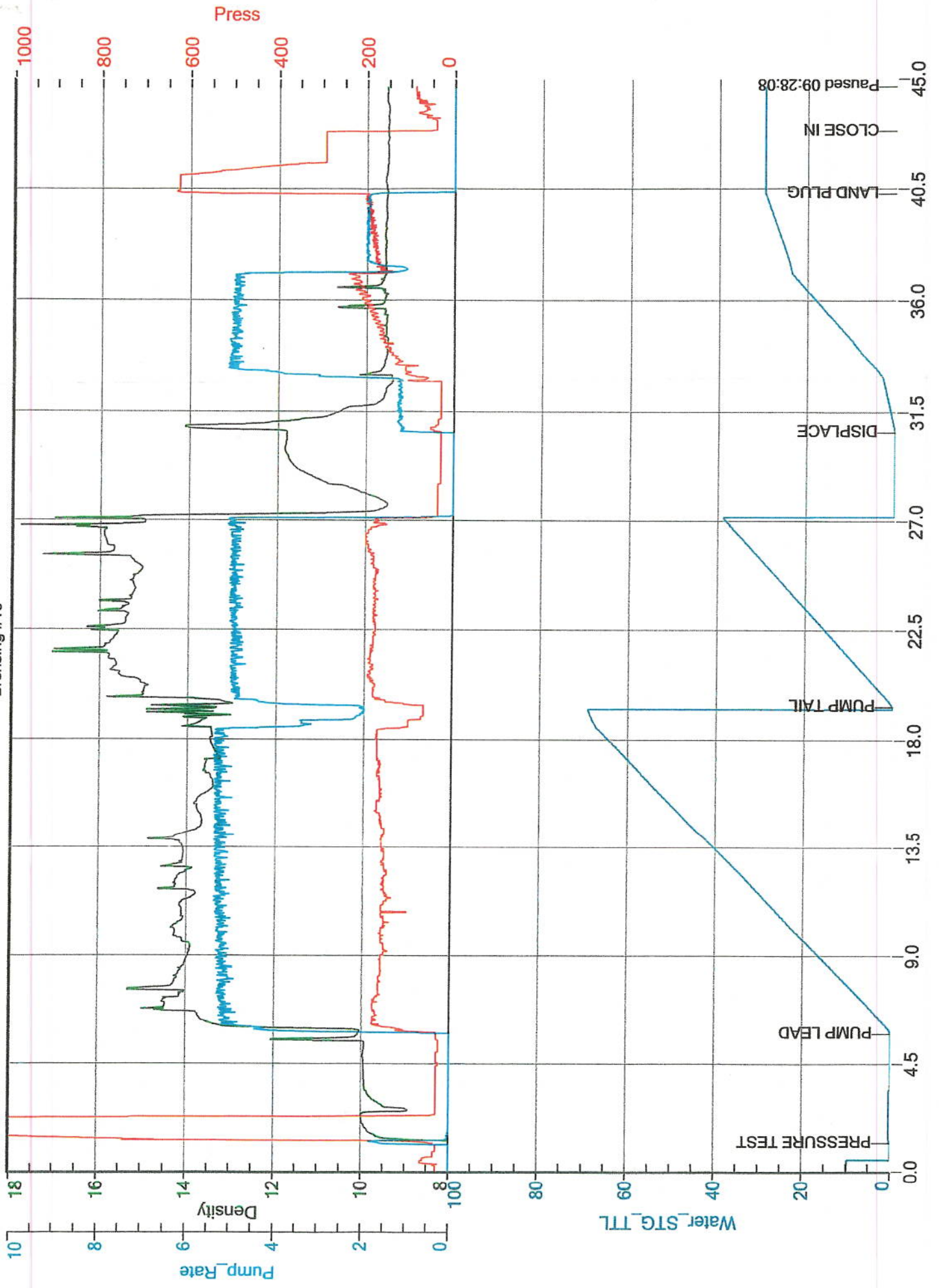


Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Herman Loeb		Cement Pump No.:	38117, 19919 2.5Hrs.		Operator TRK No.:	96816	
Address:			Ticket #:	1718 17208 L		Bulk TRK No.:	70897, 37725 Oscar	70897, 37725
City, State, Zip:			Job Type:	Z42 - Cement Surface Casing				
Service District:	1718 - Liberal, Ks.		Well Type:	OIL				
Well Name and No.:	Brensing #10		Well Location:	10,28,20	County:	Kiowa	State:	Ks
Type of Cmt	Sacks	Additives			Truck Loaded On			
A-Con' Blend	150	3% Calcium Chloride, 0.25pps Celloflake			70897, 37725 Oscar		Front	Back
60/40 Poz	150	3% Calcium Chloride, 0.25pps Celloflake			70897, 37725		Front	Back
							Front	Back
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements		CU. FT.	Man Hours / Personnel		
Lead:	12	2.47	14.49		370.5	TT Man Hours:	28.5	
Tail:	14.8	1.21	5.18		181.5	# of Men on Job:	3	
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials	
			T	C	Tubing	Casing		
5:00							ON LOCATION	
6:00							SAFETY MEETING	
7:30 AM							RIG UP	
8:20 AM							RIG TO CIRCULATE	
8:42 AM							PRESSURE TEST TO 1400PSI	
8:46	5	65.9 slurry				180	PUMP 150SX LEAD @ 12#	
9:00	5	32.3 slurry				180	PUMP 150SX TAIL @ 14.8# / CEMENT RETURNS	
9:08 AM							SHUTDOWN / DROP PLUG	
9:12	5	10				160	DISPLACE	
	4.9	20				220		
9:19	4.8	22				270	SLOW RATE TO 2.0BPM @ 180PSI	
9:22	2	27.9				200	LAND PLUG / PRESSURE UP TO 630PSI	
9:23							RELEASE BACK TO 290PSI --- CLOSE IN	
							JOB COMPLETE	
Size Hole	12 1/4"	Depth					TYPE	Plug Container
Size & Wt. Csg.	8 5/8" 23#	Depth			New / Used		Packer	Depth
Landing Press.	140.8psi	Depth					Retainer	Depth
Shoe Jt.	42.30'	Type					Perfs	CIBP
Customer Signature: <i>[Signature]</i>						Basic Representative:		Daniel Beck
						Basic Signature:		<i>[Signature]</i>
						Date of Service:		1/22/2019

Herman Loeb Brensing #10



2/1



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007589	1718	01/31/2019
INVOICE NUMBER			
92901887			

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 Brensing #10
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

6076-6420 - BRENSING

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41158565			Net - 30 days	03/02/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 01/31/2019 to 01/31/2019				
0041158565				
171817632A Cement-New Well Casing/Pi 01/31/2019				
5 1/2" Production Casing				
50/50 POZ	200.00	EA	6.60	1,320.00 T
60/40 POZ	50.00	EA	7.20	360.00 T
KCL	452.00	GAL	0.90	406.80 T
Celloflake	51.00	EA	2.22	113.22 T
C-41P	84.00	EA	2.40	201.60 T
Gypsum	840.00	EA	0.45	378.00 T
Cement Gel	86.00	EA	0.15	12.90 T
C-17	84.00	LB	12.00	1,008.00 T
1201 Lbs. - Gilsonite	1.00	EA	482.80	482.80 T
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	216.00	216.00 T
Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	240.00	240.00 T
Cement Scratchers Cable Type, 5 1/2"	6.00	EA	45.00	270.00 T
Turbolizer, 5 1/2" (Blue)	10.00	EA	66.00	660.00 T
Mud Flush	1,000.00	GAL	0.90	900.00 T
Claymax KCL Substitute	5.00	EA	21.00	105.00 T
"Unit Mileage Chg (PU, cars one way)"	50.00	MI	2.70	135.00 T
Heavy Equipment Mileage	100.00	MI	4.50	450.00 T
528 Tn/Mi - Proppant & Bulk Del. Chg.	1.00	EA	791.25	791.25 T
Depth Charge; 4001'-5000'	1.00	EA	1,512.00	1,512.00 T
Blending & Mixing Service Charge	250.00	BAG	0.84	210.00 T
Plug Container Util. Chg.	1.00	EA	150.00	150.00 T
"Service Supervisor, first 8 hrs on loc.	1.00	EA	105.00	105.00 T

PAID
 87819
 FEB 2 1 2019
 SCANNED

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,027.57
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	396.62
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,424.19
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

THM 45

FIELD SERVICE TICKET
1718 17632 A

1 OF 2

DATE _____ TICKET NO. _____

DATE OF JOB: 1-31-19 DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER: Heiman L Job		LEASE: Breensing WELL NO.: 10							
ADDRESS:		COUNTY: Kiowa STATE: KS							
CITY: STATE:		SERVICE CREW: Mattai, Marquez, Davis							
AUTHORIZED BY:		JOB TYPE: Z-47 5 1/2" Long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
20920	1						1-30	PM	8:00
						ARRIVED AT JOB	1-31	AM	3:00
						START OPERATION		AM	11:13
21010	.5					FINISH OPERATION		AM	12:15
						RELEASED		AM	1:15
						MILES FROM STATION TO WELL			5.0

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 P02	SK	200		2,200.00
CP 103	60/40 P02	SK	50		600.00
CC 100	KCl	lb	452		678.00
CC 102	Cellufix	lb	51		188.70
CC 105	C-4FF	lb	84		336.00
CC 113	GYPSUM	lb	840		630.00
CC 200	CM 5-1	lb	86		21.50
CC 148	C-17	lb	84		1,680.00
CC 201	SILSOLIME	lb	1201		804.67
CF 1251	Auto fill 5 1/2" string	EA	1		360.00
CF 607	Match dump plug + barrier	EA	1		400.00
CF 2001	Scratchers 5 1/2" type	EA	6		450.00
CF 1651	Parabolics 5 1/2"	EA	10		1,100.00
CC 151	Mud flush	SAI	600		1,500.00
C 704		SAI	85		175.00

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: Mike Mattai	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X</u>
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(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer	Herman Luob	Lease No.		Date	1-31-19
Lease	Brensing	Well #	10		
Field Order #	17632	Station	Pratt	Casing	5 1/2" KFD 170 500
Type Job	Z-42 5 1/2" Long string	Formation		County	W.OWA
				State	KS
				Legal Description	10-285-20W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	5 1/2"	Tubing Size		Acid	200 SNG 50/50 P02	RATE	PRESS	ISIP
Depth	5002.71	Depth		Pre Pad	50 SNG 60/40 P02	Max	492.5	5 Min.
Volume	119.07	Volume		Pad		Min		10 Min.
Max Press	1,500	Max Press		Frac		Avg		15 Min.
Well Connection		Annulus Vol.				HHP Used		Annulus Pressure
Plug Depth	4986.81	Packer Depth		Flush	118.6	Gas Volume		Total Load

Customer Representative	Shane	Station Manager	Westerman	Treater	MATTAI
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Service Units	83353	84986	20926	19966	21016			
Driver Names	MATTAI	MATTAI	DAVID					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:55					ON LOCATION / SENTRY MEETING
6:15					RUN 5 1/2 15.5" CSNG / SHO = JT 20.98'
					SCRATCHES 4920' - 4950'
					TURBOS ON 1, 2, 3, 4, 8, 12, 16, 20, 24, 28
9:45					CSNG ON BOTTOM
10:07					HOOK TO CSNG / BRUSH CIRC W. RIG + RECIPROCATING
11:13	350		24	5	PUMP 1,000 gal. mud flush
11:18	400		3	5.5	PUMP 3 bbl water
11:19	400		44	5.5	MIX 200 SNG 50/50 P02
11:30			4	4	WASH PUMP + LINE / DROP PLUG
11:35	250			6.5	START 2% KCL DISPLACEMENT
11:44	200		55	6.5	LOST CIRCULATION
11:47	200		79	6.5	CIRCULATION RETURNED
11:47	375		80	6.5	LIFT PRESSURE
11:52	800		110	3	SLOW RATE / STOP RECIPROCATING
11:54	1500		118.6		PLUG DOWN / RELEASED + HELD
12:05			7.5		PLUG RAT + MUDS HOLE
					JOB COMPLETE
					THANK YOU!
					MIKE MATTAI
					EDUARDO + DAVID