

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 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 |
|--|---|

| 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 |
|---|---|------------------------------------|

| 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: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Herman L. Loeb, LLC |
| Well Name | M-ROC 1-19 |
| Doc ID | 1590087 |

Tops

| Name | Top | Datum |
|------------------|------|-------|
| Blaine Anhy | 1179 | 1042 |
| Chase | 2460 | -239 |
| Heebner Shale | 4054 | -1833 |
| Lansing A | 4211 | -1990 |
| Lansing KC H | 4377 | -2156 |
| KC I | 4427 | -2206 |
| KC J | 4472 | -2251 |
| BKC | 4596 | -2375 |
| Marmaton | 4641 | -2420 |
| Miss Chert | 4788 | -2567 |
| Kinderhook Shale | 4834 | -2613 |

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: M-ROC #1-19
Location: 400' FSL & 400' FEL, Sec. 19-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21858
Spud Date: 6/17/2021
Surface Coordinates: 400' FSL & 400' FEL, Sec. 19-T27S-R18W
Region: Einsel Field
Drilling Completed: 6/26/2021

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2210' K.B. Elevation (ft): 2221'
Logged Interval (ft): 3450' To: 4838' Total Depth (ft): 4838'
Formation: Kinderhook Formation at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3309'; Chemical Gel 3309' to 4838'

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(Lansing/K.C. 'H' Zone) 4389' - 4412' Test Times 30"-45"-30"-60" IFP Weak 0.5" Blow built to 5" in 30", FFP Weak Blow built to 2.25" in 30 Min., no Blowback on SI's; REC: 42' Rich Gas in Pipe, 52' GOCM(2%G, 2%O, 96%M), no water; IFP 27-38#, ISIP 1308#, FFP 42-42#, FSIP 1253#, IHP 2198#, FHP 2098#, BHT 114 Deg. F.(Ran Trilobite's EM Tool).

DST #2(Pawnee) 4674' - 4694' Test Times 30"-30"-30"-30" IFP Weak blow built to 0.41", FFP Weak Surface Blow, died, no Blowback on SI's; REC: 5' Drlg Mud, no shows; IFP 32-23#, ISIP 31#, FFP 26-26#, FSIP 32#, IHP 2344#, FHP 2349#, BHT 117 Deg. F.(Ran Trilobite E.M. tool).

DST #3(Miss. Osage Chert) 4748' - 4806' Test Times 15"-45"-60"-120" IFP Strong Blow/BOB 15 Sec., Gas to Surface in 15"(as soon as Tool Shutin for ISIP), BOB Blowback on ISIP; FFP Gauged gas throughout Max. 1575 MCFG Decr. to 367 MCFG(took 2 gas Samples, gas burn blue/orange flame), No Blowback on FSIP; REC: 54' GCM(2%G, 98%M), no oil or water; IFP 149-189#, ISIP 1345#, FFP 113-132#, FSIP 1352#, IHP 2422#, FHP 2337#, BHT 119 Deg. F.(Ran Trilobite EM tool).

Comments

6/17/21 MIRU Sterling Drilling Co. Rig #4, Spud at 8:30 PM. , 6/18/21 Drilling at 415'; 6/19/21 Drilling at 985'; 6/20/21 TD. 2577' - Lost Circ.; 6/21/21 TD. 3977' - CCH for Bit Trip; 6/22/21 Drilling at 4236'; 6/23/21TD. 4412' - TOH with DST #1; 6/24/21 Drilling at 4628'; 6/25/21 Drilling at 4715'; 6/26/21 TD. 4806' - On Bottom Circ. after DST #3; 6/27/21 RTD. 4838', LTD. 4840' - P & A completed, Plugged at 3:30 AM(Hurricane Services Cementing).

Set new 8 5/8"(23#) Surface Casing at 591' KB. with 325 sacks cement(Hurricane Services Cementing). Cement did Circulate. PD. at 2:30 PM. 6/18/21.

Surveys: 0.50 Deg. at 595'(Surface Casing); 5.0 Deg. at 3977'(Bit Trip); 4.0 Deg. at 4412'(DST #1); 2.0 Deg. at 4694'(DST #2); 3.25 Deg. at 4806'(DST #3).

Pipe Strap at 3977'(Bit Trip): Strap 1.33' Short to the Board, no correction made to the Board.


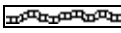
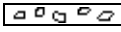
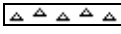
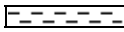







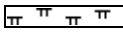
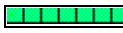
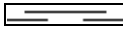
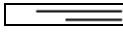
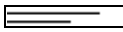



NOTE: This well is a deviated well, not on purpose, but all formation Tops are log tops and NOT corrected to True Vertical Depth.

After review of the ELI Wireline logs, DST and Sample data, the operator elected to Plug and Abandon the M-ROC #1-19 at RTD. 4838' due to lack of Commercial Quantities of Recoverable hydrocarbon.







































































LOG TOPS(DEVIATED HOLE): Blaine Anhydrite 1179(+1042), Chase 2460(-239), Stotler Lmst. 3408(-1187), Heebner Shale 4054(-1833), Toronto 4068(-1847), Brown Lmst. 4203(-1982), Lansing 'A' 4211(-1990), Lansing/K.C. 'H' 4377(-2156), K.C. 'I' 4427(-2206), K.C. 'J' 4472(-2251), Stark Shale 4510(-2289), Hertha 4559(-2338), Base Kansas City 4596(-2375), Marmaton 4641(-2420), Pawnee 4686(-2465), Cherokee Shale 4725(-2504), Reworked Miss. 4780(-2559), Clean Miss. Chert 4788(-2567), Kinderhook Shale 4834(-2613).

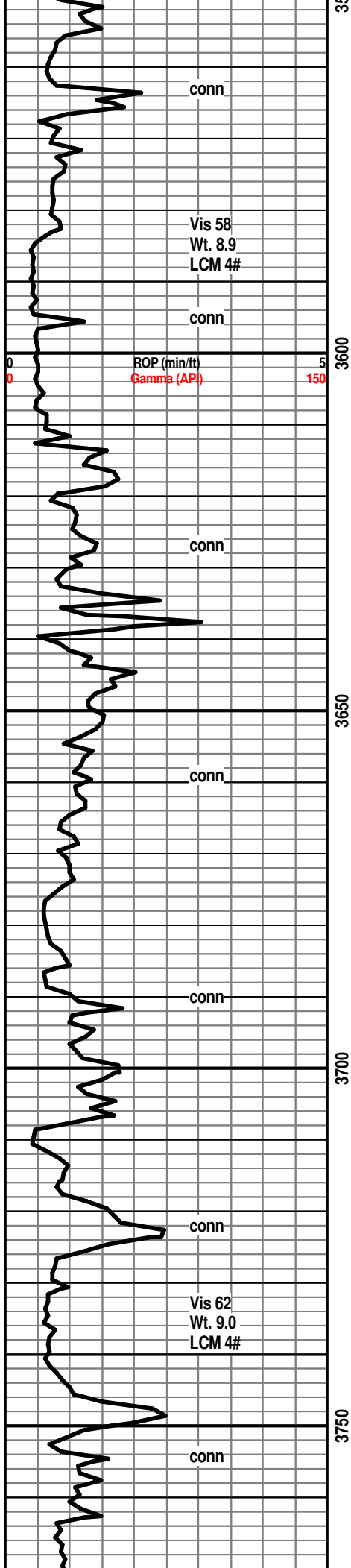
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ROCK TYPES

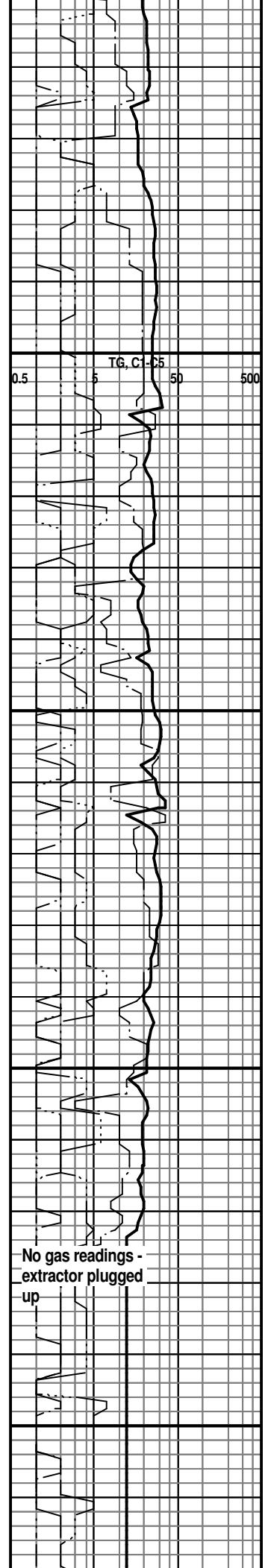
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|---|---|---|---|---|
|  Anhy  Bent  Brec  Cht |  Clyst  Coal  Congl  Dol |  Gyp  Igne  Lmst  Meta |  Mrlst  Salt  Shale  Shcol |  Shgy  Sltst  Ss  Till |
|---|---|---|---|---|

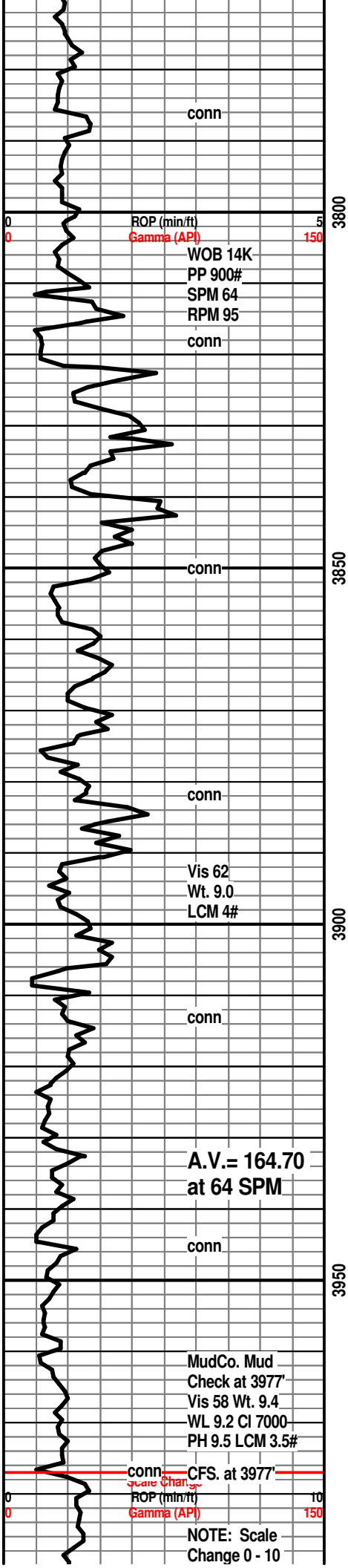
ACCESSORIES

| | | | | |
|---|--|--|--|---|
| MINERAL  Anhy  Arggrn  Arg  Bent  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 |
|---|--|--|--|---|

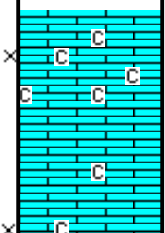


HOWARD 3613(-1392)





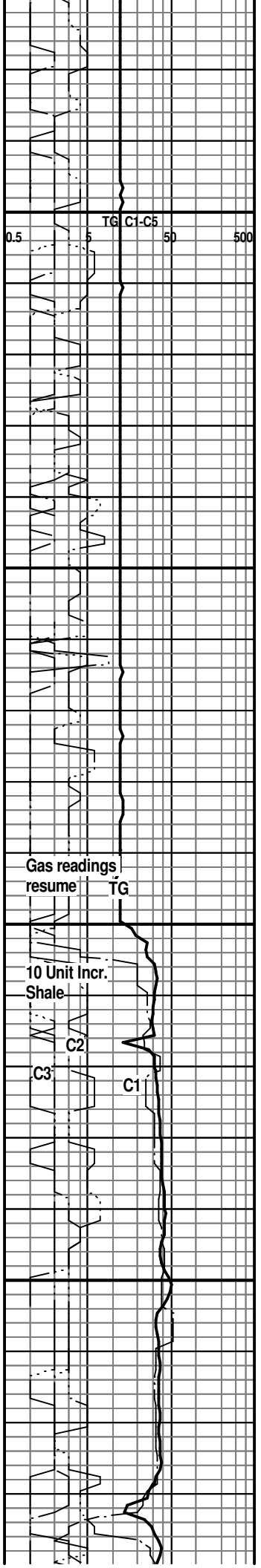
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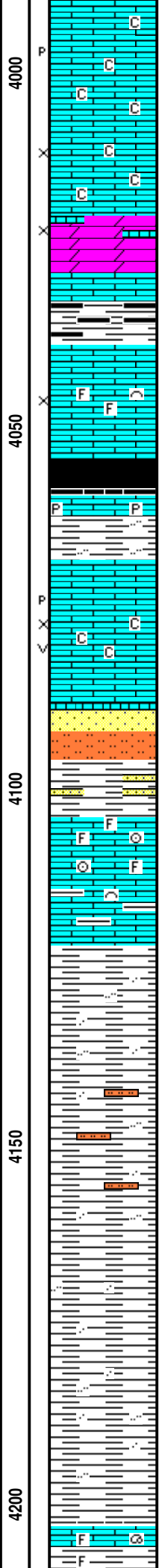
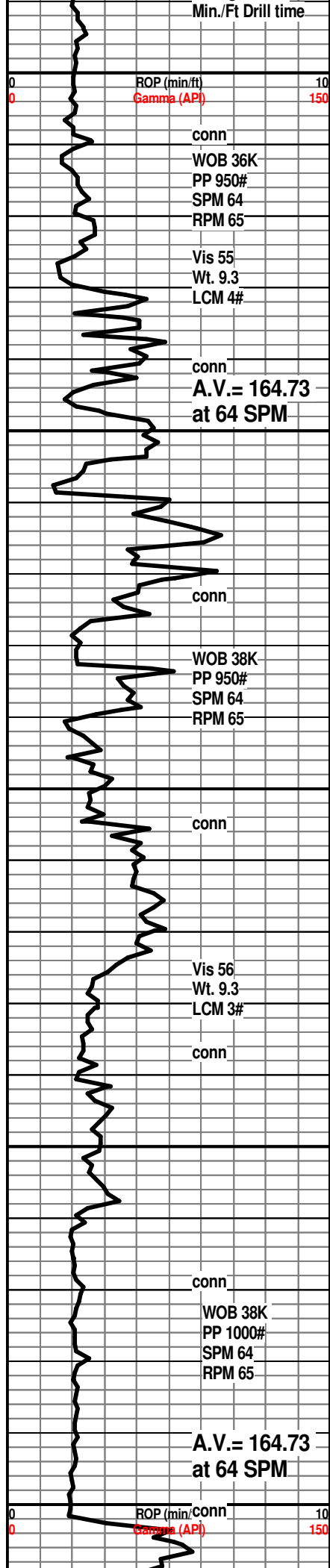


LM; off wh, wh, tan, f to med xln, fair interxln por, very chalky - soft ip, no fluor, no stn or odor, ns.

BIT TRIP AT 3977'
Start 10' Wet and Dry Samples at 3980'

LM: off wh, tan, buff, f to med xln, seat poor to fair





LM; off wh, tan, blk, f to med xln, scat poor to fair interxln and occ p-p por, chalky ip, dull yel min fluor, ns.

LM; off wh, wh, f xln, rare sucrosic text, occ soft - chalky mtx, poor interxln por, dull yel fluor, no stn or odor, ns.

DOL; wh, off wh, tan, sucrosic, some lmy - tite, poor to fair interxln por, lt yel min fluor, ns.

SH; med to dk gy, trc blk, platy

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

LM; off wh to tan, med xln w/occ foss mat, fair interxln/interpart por, dull yel fluor, no stn or odor, ns.

HEEBNER SHALE 4054(-1833)

SH; blk, carb, trc gas

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

SH; grn, gy grn, silty ip, firm

TORONTO 4068(-1847)

LM; lt gy, off wh, wh, fxln, scat foss mat, occ gd p-p and interpart por, no fluor, no stn/odor, ns.

LM; wh, off wh, fine to md xln, scat fair vug por, chalky-soft ip, no fluor, no stn or odor, ns.

DOUGLAS SHALE 4089(-1868)

SLTST; lt gy, sandy w/interbdd vf gr qtz ss, poor to fair intergran por, no fluor, no stn or odor, ns.

LM; lt to med gy, gy brn, highly foss ip, well cem, no vis por, some argil lmst interbdd, no fluor, no stn or odor, ns.

SH; lt gy, silty to sandy ip, platy

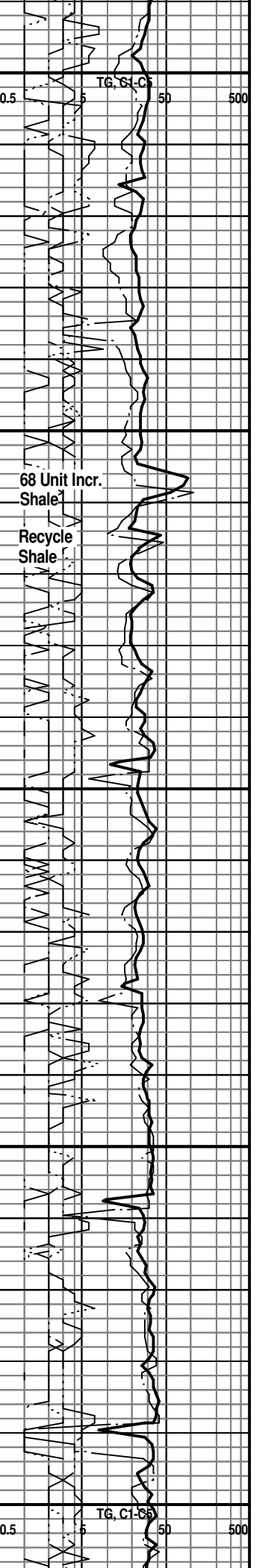
SH; lt to med gy, platy, silty w/interbdd lt gy sltst.

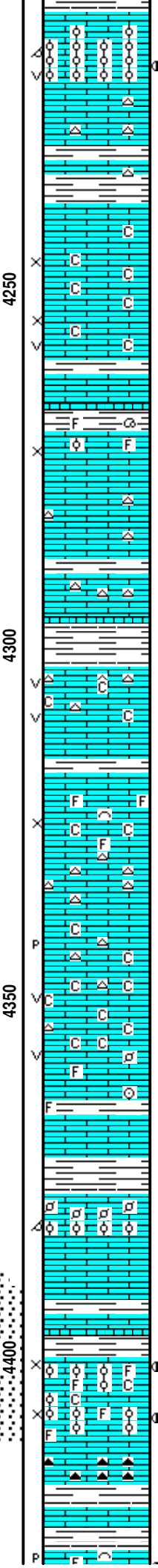
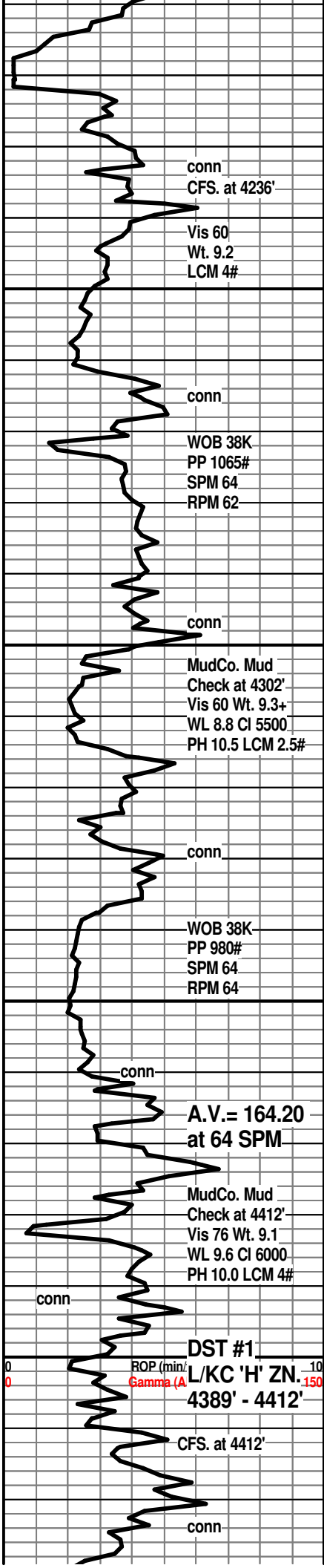
SH; lt to med gy, platy, occ silty

BROWN LMST. 4203(-1982)

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

SH; med gy, firm, foss ip.





LANSING 'A' 4211(-1990)
LM; med brn, occ dk brn, oolitic, med size molds w/v. gd oomoldic por, scat vug por, lt to med yel fluor, fair to gd oil/gas odor, spotted lt brn oil stn, gas bubbles, fair cut in some

LM; It gy, lt brn, hd, scat gy cht, tite

LANSING 'B' 4238(-2017)
LM; tan to lt brn, fxln, rare p-p and interxln por, minor chalky mtx, no fluor, no stn/odor, ns.

LM; off wh, tan, lt gy, f to med xln, scat fair vug and interxln por, chalky mtx ip, no fluor, no stn or odor, ns.

LM; med to dk brn, blocky, tite
SH; dk gy, platy, foss ip.

LM; tan - lt brn, med xln to gran, foss ip, soft, gd interpart/interxln por, no fluor, no stn or odor, barren, ns.
LM; lt brn, dense, scat amber to gy cht, tite

LM; lt to med brn, hd, cherty, blocky
SH; med to dk gy, platy

LM; tan to cream, buff, f to med xln, abnt wh fresh cht in upper part of zone, minor wh chalky mtx, fair vug por, dull yel min fluor only, no stn or odor, ns.

LM; tan to cream, buff, foss, fair interpart por, minor chalky mtx, dull yel fluor, no stn/odor, ns.

LM; tan to off wh, buff, hd, abnt wh/off wh fresh cht, most tite, ns.

LM; off wh, buff, fxln, scat p-p and vug por, chalky mtx ip, no fluor, no stn or odor, ns, bcm more chalky with depth, interbdd wh/off wh cht

LM; tan to cream, buff, med xln, scat spar calc xtals, occ fair vug por, rare foss mat, dull yel min fluor, ns.

LM; lt brn, foss - well cem, blocky, tite

LANSING/K.C. 'H' 4377(-2156)
LM; tan, finely oolitic, most tite, dull yel fluor, ns.

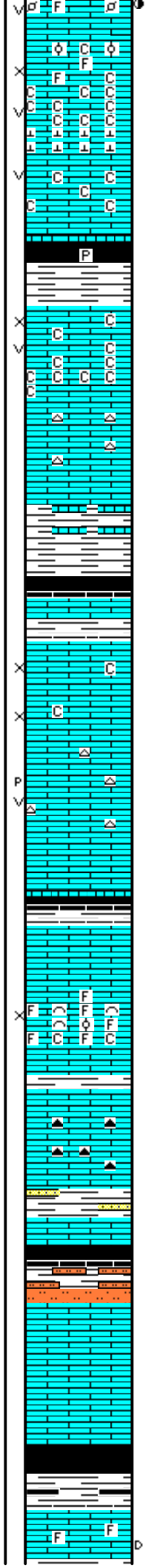
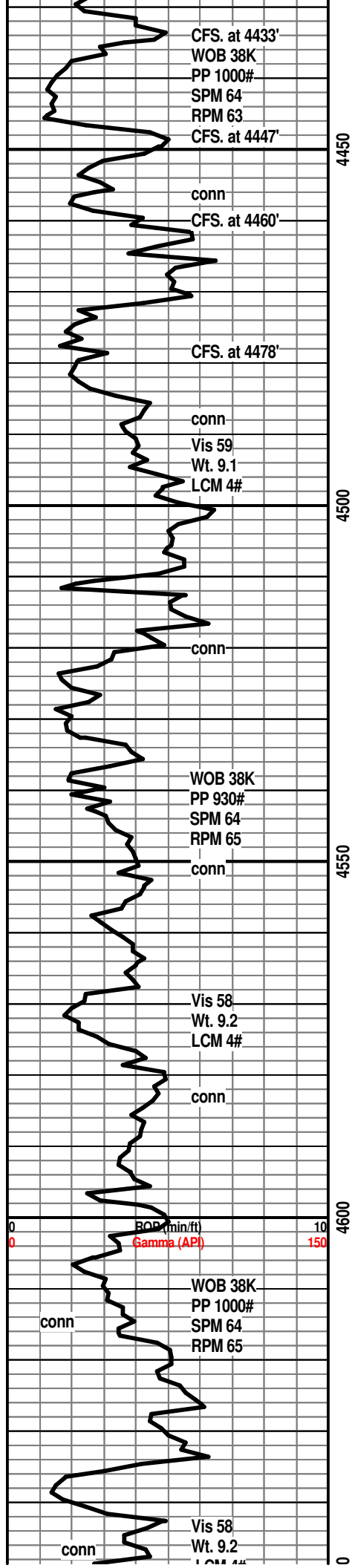
LM; tan to buff, oolitic, small to med size molds, fair oomoldic por, brittle ip, no fluor, no stn or odor, ns.

LANS/K.C. 'H' LOWER 4400(-2179)
LM; off wh, buff, foss - oolitic, stacked ooids w/poor to fair interpart por, some tite, fair odor, SSFO, gas bubbles, med/brite yel fluor, spotted lt brn stn, minor chalky mtx

LM; med brn, dense, abnt dk gy/dk brn cht, tite
DST #1: L/K.C. 'H' 4389' - 4412'

K.C. 'I' ZONE 4427(-2206)
LM; tan buff, foss, poorly dev. vug and p-p por, scat





LM; tan-brn, foss, poorly dev. vug and p-p por, scat lt/med brn oil stn, fair odor, scat med/brite yel fluor, fair cut, NO GAS KICK(detector is working), low perm zone

LM; off wh, wh, foss ip, rare small ooids, very chalky - soft, fair interpart and small vug por, no fluor, no stn or odor, barren, no sample shows

LM; tan, brn calc xtal incl, brite yel min fluor, tite

LM; tan to cream, buff, fxln, well dev. vug por, faint sulfur odor, occ chalky ip, no fluor, 1 piece w/faint oil stn, most barren of shows

SH; blk, platy, trc pyr

SH; med grn, gy grn, smooth, fiss

K.C. 'J' ZONE 4472(-2251)

LM; off wh, tan, fxln w/occ sucrosic text, chalky mtx ip, fair to gd interxln w/occ small vug por, no fluor, no stn or odor, barren, ns., incr. amt of chalk at base of porosity

LM; tan to lt brn, buff, most dense - micritic, scat wh/brn cht, no vis por, ns.

SH; med gy brn, lmy, gritty text, v. firm, interbdd shaly lmst

STARK SHALE 4510(-2289)

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

SWOPE 4519(-2298)

LM; off wh, med to occ cse xln, fair to gd interxln por, minor chalky mtx, scat cse spar calc xtals, no fluor, no stn or odor, ns.

LM; tan to buff, f to med xln, scat fair p-p and small vug por, occ wh fresh cht, no fluor, no stn or odor, ns.

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

SH; dk brn - blk, carb, occ pyr

HERTHA 4559(-2338)

LM; tan, lt brn, blocky, tite

LM; tan to lt brn, highly foss - much foss hash, fair to gd interpart por, minor chalky mtx, no fluor, no stn or odor, ns.

LM; med to dk brn, hd, micritic, interbdd dk gy to blk cht, tite

BASE KANSAS CITY 4596(-2375)

SH; med to dk gy, sandy to gritty ip, platy

SH; dk gy - blk, platy, firm, interbdd lt gy grn sltst.

PLEASANTON 4612(-2391)

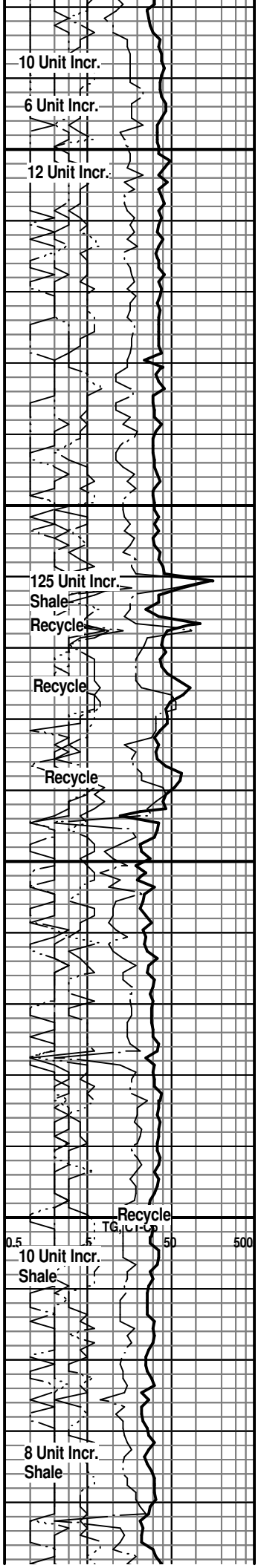
LM; lt to med gy, dense - micritic, hd, no vis por, ns.

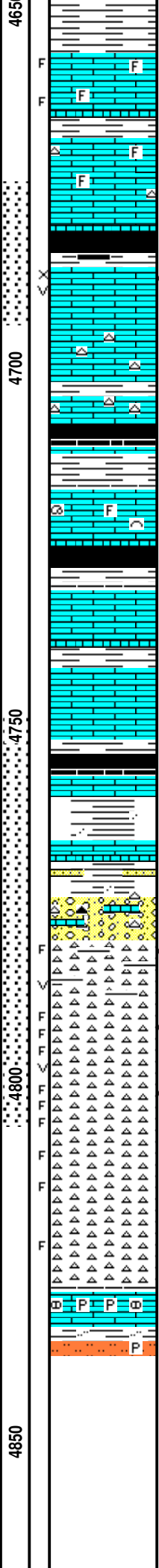
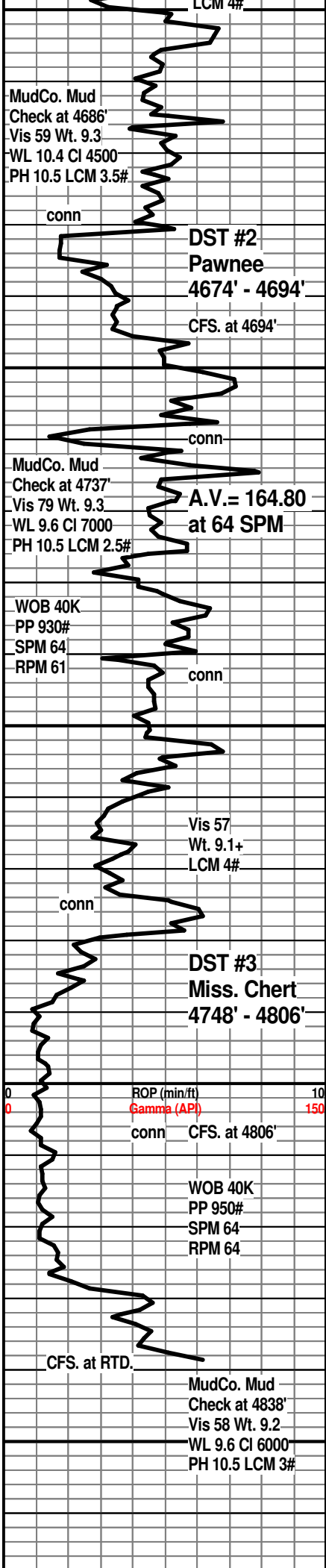
LM; med gy, gy brn, dense, blocky, rare spar calc xtals, no vis por, ns.

SH; dk gy - blk, platy, also med gy grn silty shale

MARMATON 4641(-2420)

LM; tan to lt brn, buff, foss ip, well cem, trc grn argil lmst, no vis por, scat lt yel fluor, trc blk tar/gilsonite, no





live shows, no gas kick

ALTAMONT 4656(-2435)
LM; tan - cream, foss ip, most dense, scat fracs w/blk tar - gilsonite, no live shows, few pcs w/brite yel fluor, no odor, v. weak to no cut
LM; lt to med brn, foss, most well cem, scat gy to tan cht, no vis por, tite, ns.
SH; dk gy - blk, platy, carb ip.

PAWNEE 4686(-2465)
LM; lt brn, foss, fair to gd interpart w/vug por, gd odor, SFO, gas bubbles, med/brite yel fluor, gd cut, most w/even med brn oil stn, some loosely cem foss mat.

DST #2: Pawnee 4674' - 4694'
LM; lt to med brn, hd, micritic, scat gy/brn cht

LABETTE SHALE 4708(-2487)
SH; blk, carb, blocky, trc gas
LM; lt brn, foss ip, well cem, no vis por, no fluor, ns.
SH; dk gy, platy, smooth
LM; tan to lt brn, dense, litho ip, hd, no vis por, no fluor, ns.
SH; dk gy, blk, platy
LM; tan to cream, fxln, most tite, trc blk tar/gilsonite, no live shows, no fluor
SH; varic - rust red, maroon, yel, platy to flakey, rare f gr qtz ss, interbdd weathered lmst.

CONGL; weathered nodular lmst, varic chert

REWORKED MISS. 4780(-2559)
CHT; off wh, yel/some varic, most fresh, fracs, faint gas odor, rare spotted dk brn/blk oil stn, med yel fluor, trc gas bubbles, vug por

CLEAN MISS. CHERT 4788(-2567)
CHT; off wh, wh, fresh and tripolite, abnt fracs w/edge stn, fair vug por also, trip por has live oil stn and SSFO, med/brite yel fluor, dead tar/gils
CHT; wh, off wh, yel, most fresh, sl. decrease in oil stn, sl. decrease in odor, VSSFO, abnt fracs

DST #3: Miss. Chert 4748' - 4806'
CHT; wh, off wh, lt gy, most fresh, fracs w/vis live and dead(gilsonite)stn on some, most barren, little to no fluor, no odor
CHT; varic - red, yel, most fresh, poss fracs, ns
LM; red - brn, rust brn, hd, oxidized, hd, some nodular, pyr ip, tite

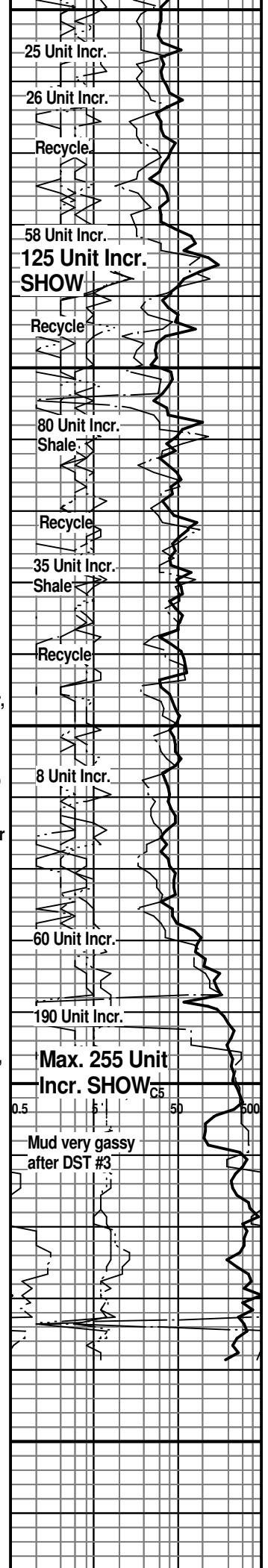
KINDERHOOK SHALE 4834(-2613)
SLTST; grn, argil ip, v. firm, rare pyr

RTD. 4838' at 8:30 AM. 6/26/2021

LTD. 4840'

ELI Wireline DIL, NEU/DEN w/PE, Microlog

NOTE: THIS WELL IS A DEVIATED



WELL AND THE FORMATION TOPS
ARE NOT CORRECTED TO TRUE
VERTICAL DEPTH.

NOTE: The Gamma Ray could not be
imported onto this log due to a
corrupted file.

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67242 **DST#: 1**
Test Start: 2021.06.23 @ 00:08:19

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:39:19
Time Test Ended: 07:31:34
Interval: **4389.00 ft (KB) To 4412.00 ft (KB) (TVD)**
Total Depth: 4412.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68
Reference Elevations: 2221.00 ft (KB)
2210.00 ft (CF)
KB to GR/CF: 11.00 ft

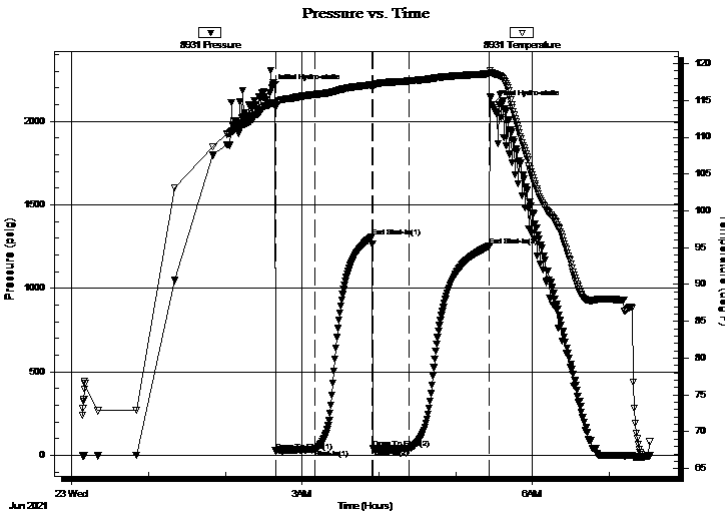
Serial #: 8931

Inside

Press@RunDepth: 41.55 psig @ 4390.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.06.23 End Date: 2021.06.23 Last Calib.: 2021.06.23
Start Time: 00:08:24 End Time: 07:31:33 Time On Btm: 2021.06.23 @ 02:36:04
Time Off Btm: 2021.06.23 @ 05:28:34

TEST COMMENT: IF: Weak-Fair Blow . Built to 5". (30)
IS: No Blow . (45)
FF: Weak Blow . Built to 2.39". (30)
FS: No Blow . (60)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2198.46 | 114.57 | Initial Hydro-static |
| 4 | 27.34 | 114.19 | Open To Flow (1) |
| 34 | 37.95 | 115.82 | Shut-In(1) |
| 79 | 1307.52 | 117.09 | End Shut-In(1) |
| 80 | 41.80 | 116.90 | Open To Flow (2) |
| 108 | 41.55 | 117.63 | Shut-In(2) |
| 171 | 1252.81 | 118.63 | End Shut-In(2) |
| 173 | 2098.26 | 118.71 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 52.00 | GVSO2M 2%g 2%o 96%m | 0.53 |
| | | |
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Gas Rates

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



DRILL STEM TEST REPORT

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67242 **DST#: 1**
Test Start: 2021.06.23 @ 00:08:19

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:39:19
Time Test Ended: 07:31:34
Interval: **4389.00 ft (KB) To 4412.00 ft (KB) (TVD)**
Total Depth: 4412.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68
Reference Elevations: 2221.00 ft (KB)
2210.00 ft (CF)
KB to GR/CF: 11.00 ft

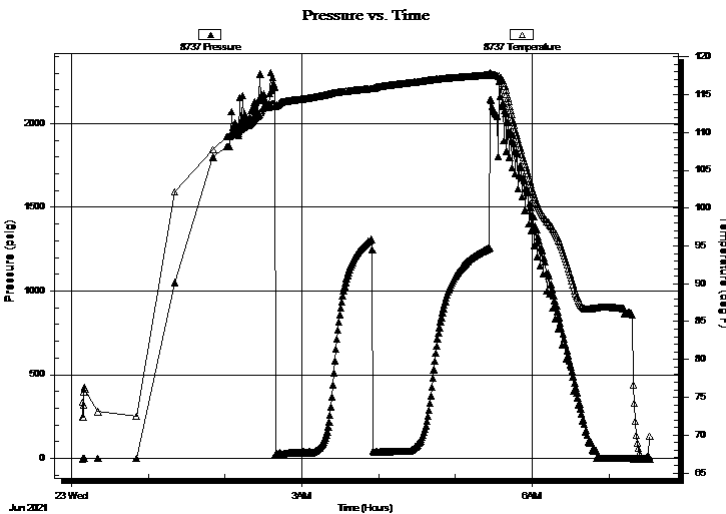
Serial #: 8737

Outside

Press@RunDepth: psig @ 4390.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.06.23 End Date: 2021.06.23 Last Calib.: 2021.06.23
Start Time: 00:08:39 End Time: 07:31:48 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak-Fair Blow . Built to 5". (30)
IS: No Blow . (45)
FF: Weak Blow . Built to 2.39". (30)
FS: No Blow . (60)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
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Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 52.00 | GVSOCM 2%g 2%o 96%m | 0.53 |
| | | |
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| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67242 **DST#: 1**
Test Start: 2021.06.23 @ 00:08:19

Mud and Cushion Information

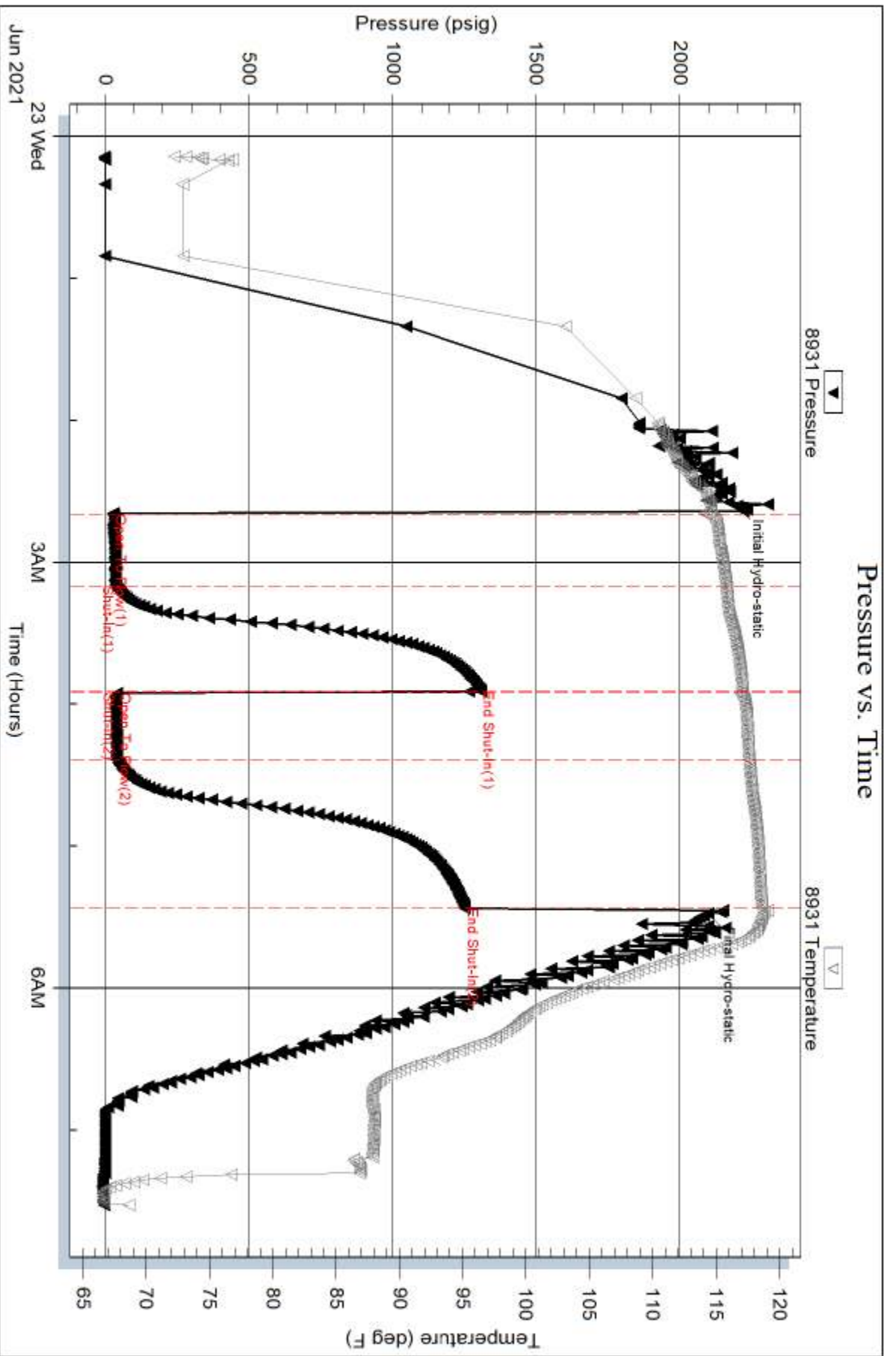
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 60.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.79 in ³ | Gas Cushion Type: | | |
| Resistivity: 5500.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: 0.20 inches | | | |

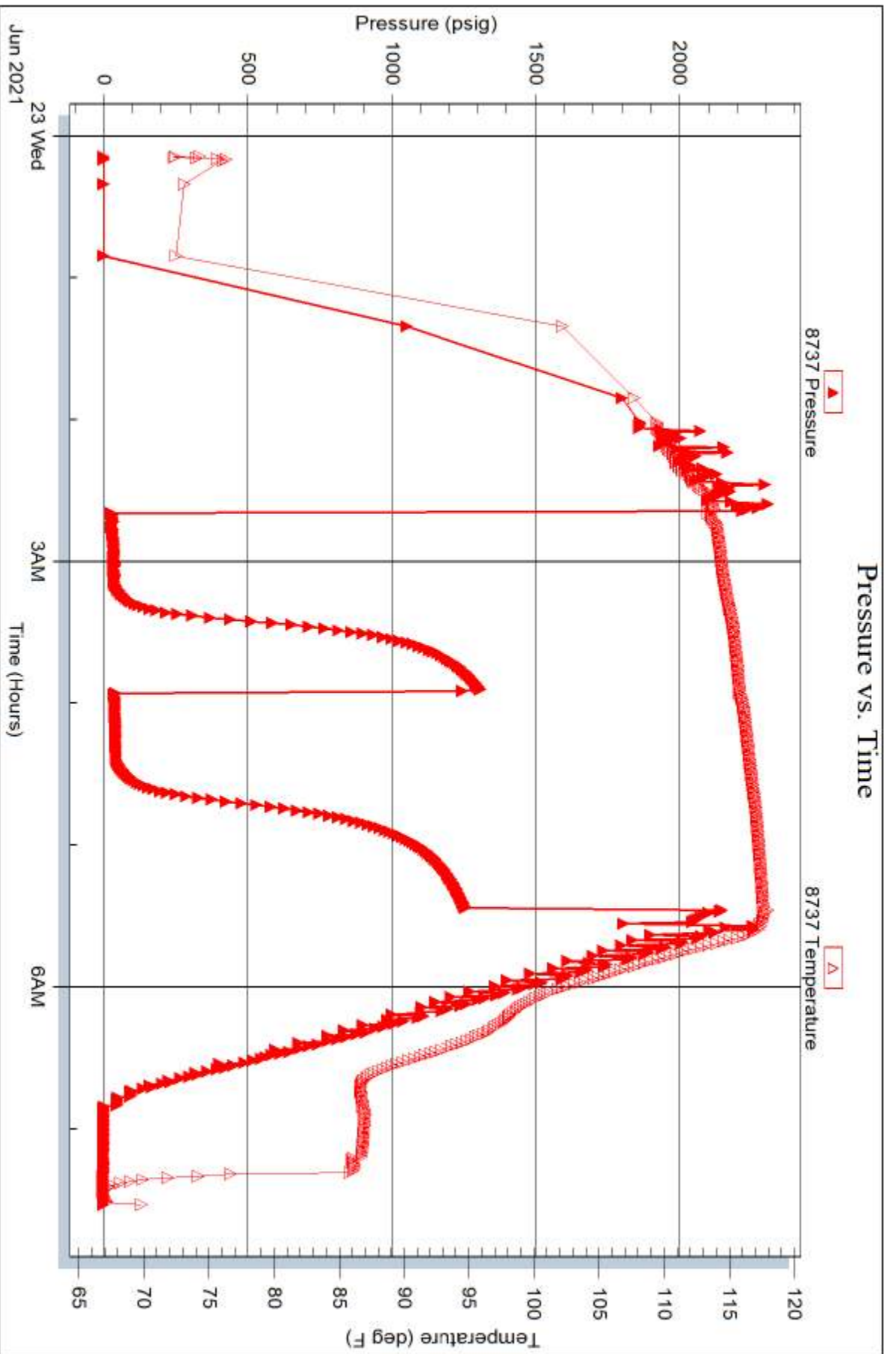
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 52.00 | GVSOCM 2%g 2%o 96%m | 0.531 |

Total Length: 52.00 ft Total Volume: 0.531 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None
 Laboratory Name: Laboratory Location:
 Recovery Comments:







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

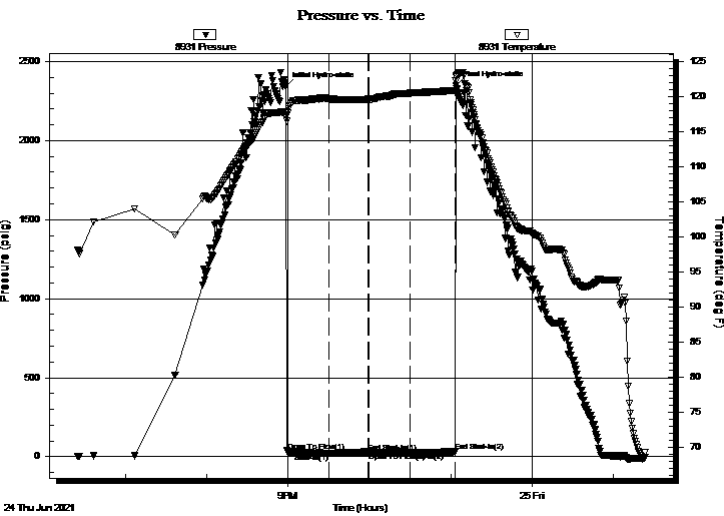
19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67243 **DST#: 2**
Test Start: 2021.06.24 @ 18:24:43

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:59:58
Time Test Ended: 01:23:28
Interval: **4674.00 ft (KB) To 4694.00 ft (KB) (TVD)**
Total Depth: 4694.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68
Reference Elevations: 2221.00 ft (KB)
2210.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8931 Inside
Press@RunDepth: 25.90 psig @ 4675.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.06.24 End Date: 2021.06.25 Last Calib.: 2021.06.25
Start Time: 18:24:48 End Time: 01:23:27 Time On Btm: 2021.06.24 @ 20:58:28
Time Off Btm: 2021.06.24 @ 23:03:58

TEST COMMENT: IF: Weak Blow . Built to .41". Decreased Back to surface blow . (30)
IS: No Blow . (30)
FF: Weak Surface Blow . Decreased to negative blow . (30)
FS: No Blow . (30)



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2343.81 | 117.32 | Initial Hydro-static |
| 2 | 31.99 | 117.66 | Open To Flow (1) |
| 32 | 22.67 | 119.65 | Shut-In(1) |
| 61 | 31.34 | 119.65 | End Shut-In(1) |
| 62 | 26.20 | 119.63 | Open To Flow (2) |
| 92 | 25.90 | 120.52 | Shut-In(2) |
| 125 | 31.76 | 120.92 | End Shut-In(2) |
| 126 | 2348.69 | 122.84 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | DM 100%m | 0.04 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Herman L Loeb LLC
 P O Box 838
 Law eranceville, IL 62439
 ATTN: Jon Christiansen

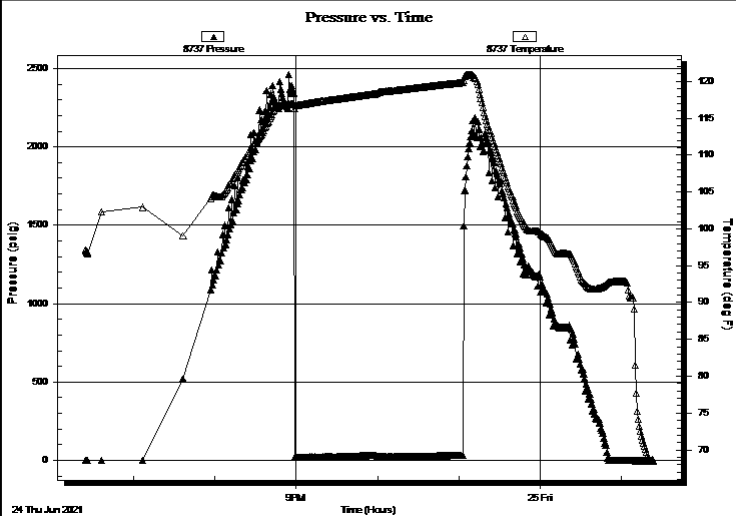
19-27s-18w Kiowa Co., KS
M-ROC 1-19
 Job Ticket: 67243 **DST#: 2**
 Test Start: 2021.06.24 @ 18:24:43

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:59:58
 Time Test Ended: 01:23:28
 Interval: **4674.00 ft (KB) To 4694.00 ft (KB) (TVD)**
 Total Depth: 4694.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2221.00 ft (KB)
 2210.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8737 Outside
 Press@RunDepth: psig @ 4675.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.06.24 End Date: 2021.06.25 Last Calib.: 2021.06.25
 Start Time: 18:24:30 End Time: 01:23:09 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to .41". Decreased Back to surface blow . (30)
 IS: No Blow . (30)
 FF: Weak Surface Blow . Decreased to negative blow . (30)
 FS: No Blow . (30)



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | DM 100%m | 0.04 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67243 **DST#: 2**
Test Start: 2021.06.24 @ 18:24:43

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: | 4500 ppm |
| Viscosity: 60.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 10.39 in ³ | Gas Cushion Type: | | |
| Resistivity: 4500.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: 0.20 inches | | | |

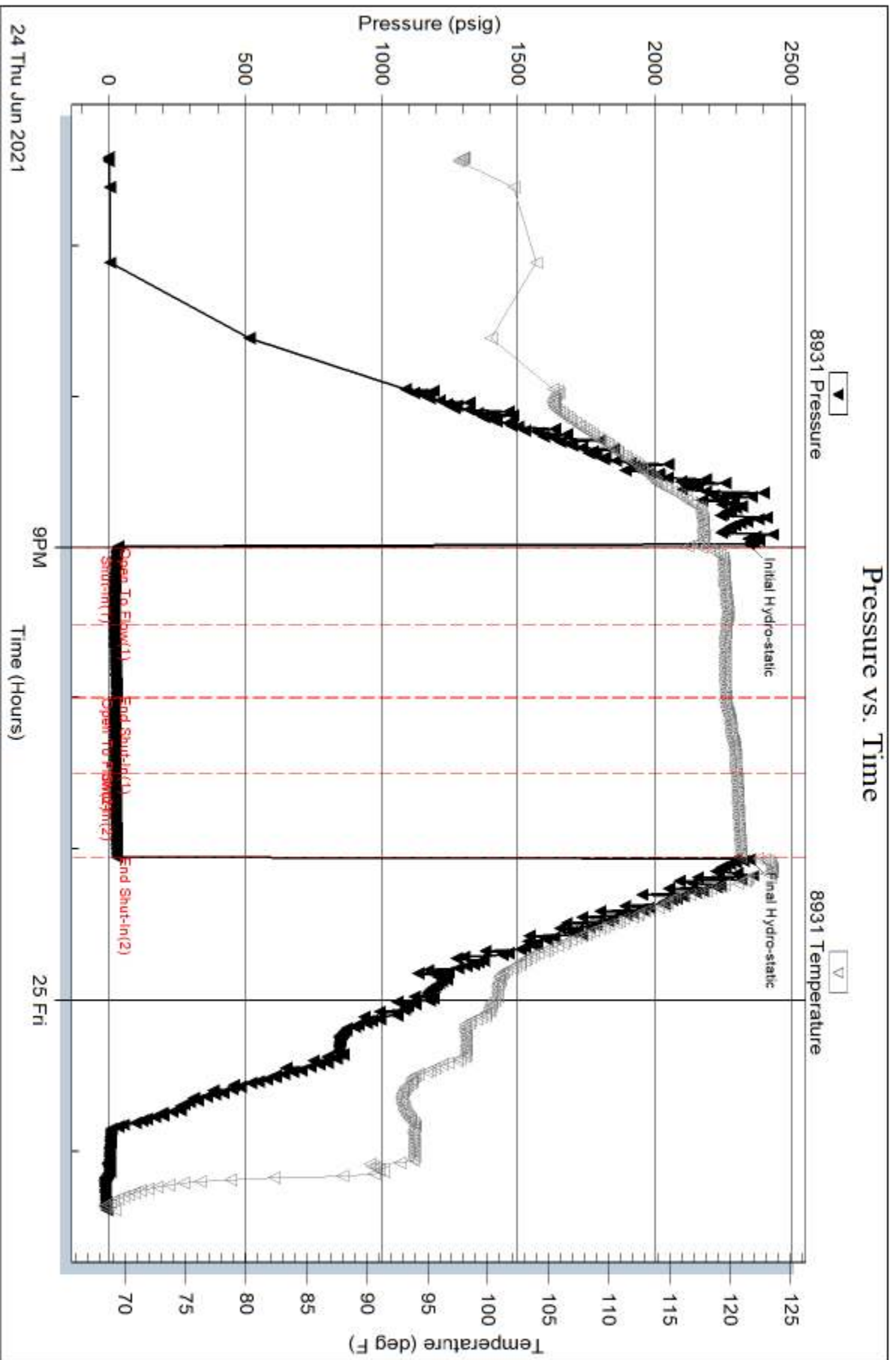
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | DM 100%m | 0.038 |

Total Length: 5.00 ft Total Volume: 0.038 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

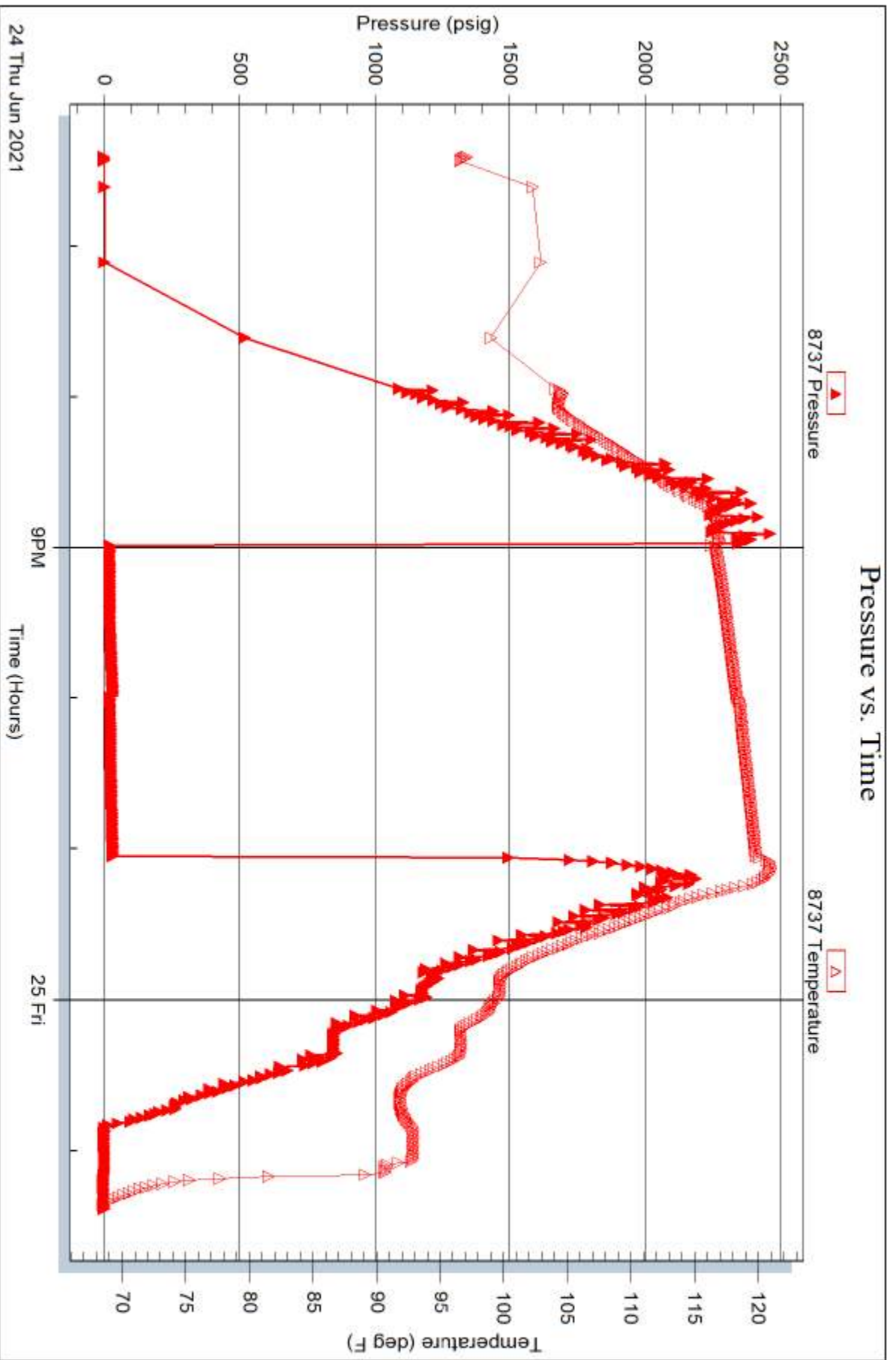


Serial #: 8737

Outside Herman L Loeb LLC

M:ROC-1-19

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67243

Printed: 2021.06.25 @ 06:32:56



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L Loeb LLC
 P O Box 838
 Laweranceville, IL 62439
 ATTN: Jon Christiansen

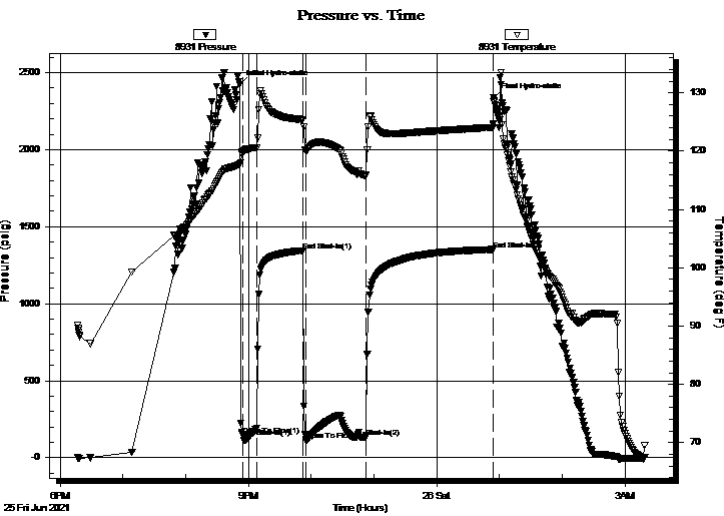
19-27s-18w Kiowa Co., KS
M-ROC 1-19
 Job Ticket: 67243 **DST#: 3**
 Test Start: 2021.06.25 @ 18:16:47

GENERAL INFORMATION:

Formation: **Mississippi Chert**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:54:17
 Time Test Ended: 03:19:02
 Interval: **4748.00 ft (KB) To 4806.00 ft (KB) (TVD)**
 Total Depth: 4806.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2221.00 ft (KB)
 2210.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8931 Inside
 Press@RunDepth: 131.54 psig @ 4749.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.06.25 End Date: 2021.06.26 Last Calib.: 2021.06.26
 Start Time: 18:16:52 End Time: 03:19:02 Time On Btm: 2021.06.25 @ 20:51:47
 Time Off Btm: 2021.06.26 @ 00:54:32

TEST COMMENT: IF: Strong Blow . B.O.B. in 15 secs. Built over 800". (15)
 IS: Strong Blow . Bleed off for 10 mins. B.O.B. & G.T.S. immediate. Built to 324". (45)
 FF: Strong Blow . B.O.B. & G.T.S. immediate. Gauged Gas. (60)
 FS: No Blow . (120)



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2421.71 | 117.76 | Initial Hydro-static |
| 3 | 149.10 | 119.80 | Open To Flow (1) |
| 16 | 189.46 | 120.50 | Shut-In(1) |
| 61 | 1345.09 | 125.41 | End Shut-In(1) |
| 64 | 113.15 | 120.02 | Open To Flow (2) |
| 121 | 131.54 | 115.82 | Shut-In(2) |
| 242 | 1351.87 | 124.08 | End Shut-In(2) |
| 243 | 2337.23 | 128.39 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 54.00 | GM 2%g 98%m | 0.56 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.13 | 118.77 | 49.84 |
| Last Gas Rate | 0.38 | 85.73 | 366.80 |
| Max. Gas Rate | 0.50 | 219.21 | 1575.86 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67243 **DST#: 3**
Test Start: 2021.06.25 @ 18:16:47

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: | 7000 ppm |
| Viscosity: 54.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.59 in ³ | Gas Cushion Type: | | |
| Resistivity: 7000.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: 0.20 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 54.00 | GM 2%g 98%m | 0.559 |

Total Length: 54.00 ft Total Volume: 0.559 bbl
 Num Fluid Samples: 2 Num Gas Bombs: 0 Serial #: P8 & P10
 Laboratory Name: Laboratory Location:
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Herman L Loeb LLC
P O Box 838
Law eranceville, IL 62439
ATTN: Jon Christiansen

19-27s-18w Kiowa Co., KS
M-ROC 1-19
Job Ticket: 67243 **DST#: 3**
Test Start: 2021.06.25 @ 18:16:47

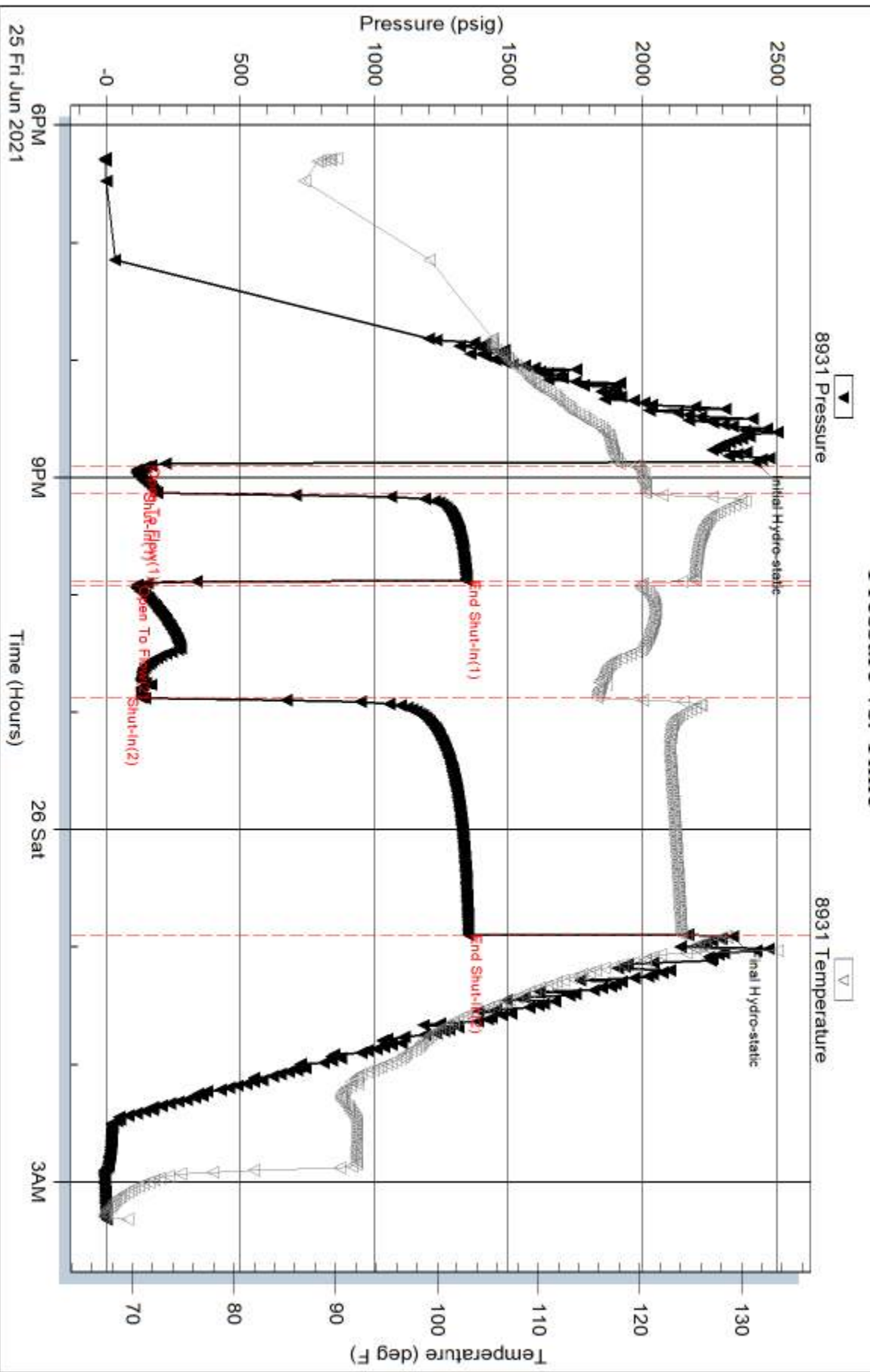
Gas Rates Information

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

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2 | 10 | 0.13 | 118.77 | 49.84 |
| 2 | 20 | 0.25 | 179.01 | 306.83 |
| 2 | 30 | 0.50 | 219.21 | 1575.86 |
| 2 | 40 | 0.50 | 119.74 | 904.87 |
| 2 | 50 | 0.38 | 89.48 | 380.54 |
| 2 | 60 | 0.38 | 85.73 | 366.80 |

Pressure vs. Time

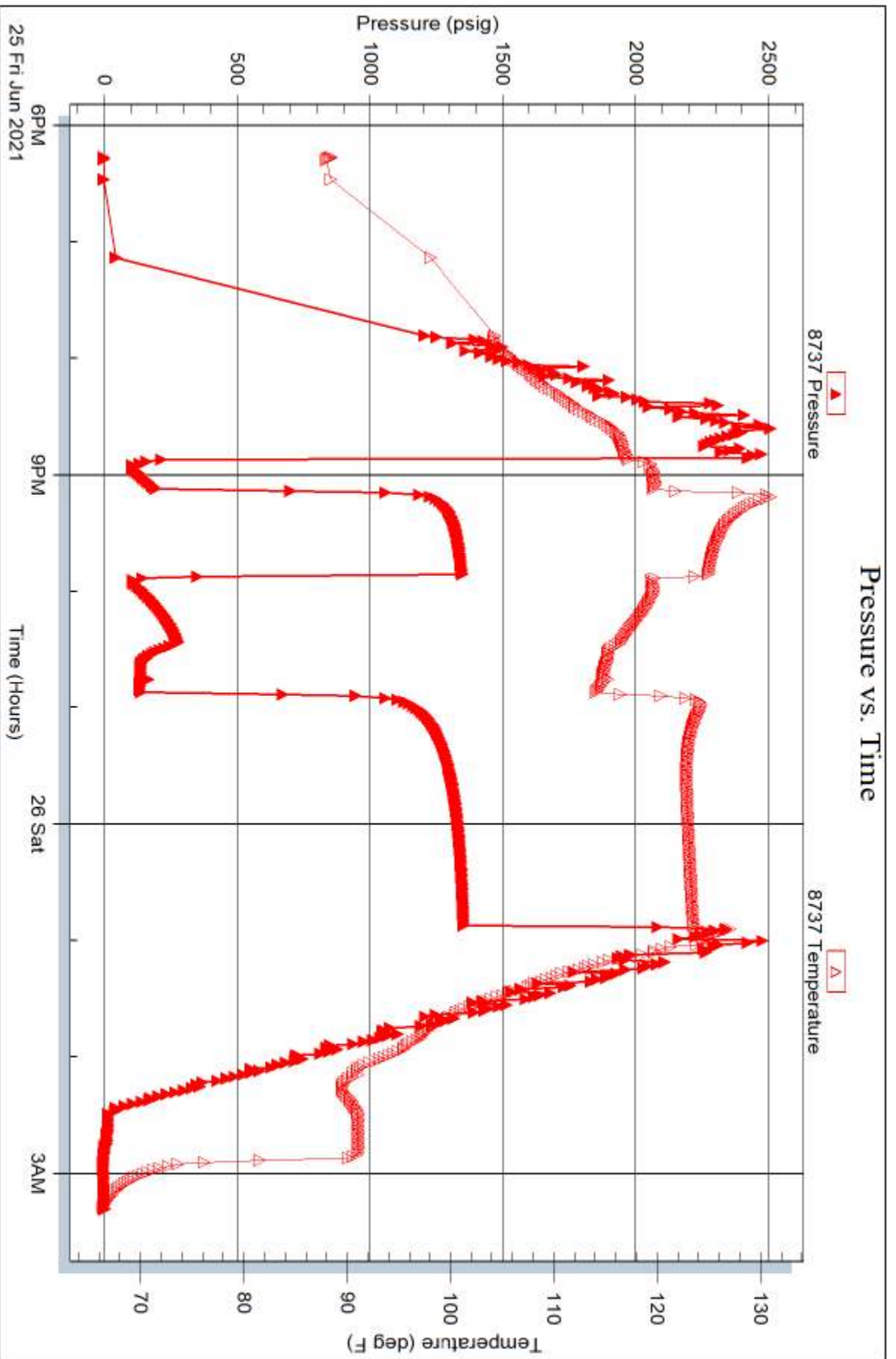


Serial #: 8737

Outside Herman L Loeb LLC

M:ROC-1-19

DST Test Number: 3



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HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
HERMAN L LOEB LLC
PO BOX 838
LAWRENCEVILLE, IL 62439

Invoice Date: 6/18/2021
Invoice #: 0353638
Lease Name: M-Roc
Well #: 1-19 (New)
County: Kiowa, Ks
Job Number: WP1490
District: Pratt

11216 → 6420 → MROC

| Date/Description | HRS/QTY | Rate | Total |
|-----------------------------|---------|---------|----------|
| 8 5/8" Surface | 0.000 | 0.000 | 0.00 |
| H-CON | 175.000 | 18.480 | 3,234.00 |
| Cement Pozmix 60/40 | 175.000 | 11.440 | 2,002.00 |
| Calcium Chloride | 948.000 | 0.660 | 625.68 |
| Cello Flake | 89.000 | 1.540 | 137.06 |
| Guide Shoe Reg 8 5/8" | 1.000 | 528.000 | 528.00 |
| 8 5/8" Alum Baffle plate SI | 1.000 | 132.000 | 132.00 |
| 8 5/8" Top rubber plug | 1.000 | 154.000 | 154.00 |
| Light Eq Mileage | 40.000 | 1.760 | 70.40 |
| Heavy Eq Mileage | 40.000 | 3.520 | 140.80 |
| Cement Pump Service | 1.000 | 660.000 | 660.00 |
| Cement Plug Container | 1.000 | 220.000 | 220.00 |
| Ton Mileage | 632.000 | 1.320 | 834.24 |

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Total 8,738.18

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

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| | | | | | |
|------------------|-----------------|---|---|--|---|
| Customer | HERMAN LOEB LLC | Lease & Well # | M-ROC 1-19 | Date | 6/18/21 |
| Service District | PRATT | County & State | KIOWA KS | Legals S/T/R | 28-27S-18W |
| Job Type | 8 5/8 SURFACE | <input checked="" type="checkbox"/> PROD | <input type="checkbox"/> INJ | <input type="checkbox"/> SWD | New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No |
| Equipment # | Driver | Job Safety Analysis - A Discussion of Hazards & Safety Procedures | | | |
| 912 | MATTAL | <input checked="" type="checkbox"/> Hard hat | <input checked="" type="checkbox"/> Gloves | <input type="checkbox"/> Lockout/Tagout | <input type="checkbox"/> Warning Signs & Flagging |
| 176/522 | LESLEY | <input checked="" type="checkbox"/> H2S Monitor | <input checked="" type="checkbox"/> Eye Protection | <input type="checkbox"/> Required Permits | <input type="checkbox"/> Fall Protection |
| 526/256 | MARTINEZ | <input checked="" type="checkbox"/> Safety Footwear | <input type="checkbox"/> Respiratory Protection | <input type="checkbox"/> Slip/Trip/Fall Hazards | <input type="checkbox"/> Specific Job Sequence/Expectations |
| | | <input checked="" type="checkbox"/> FRC/Protective Clothing | <input type="checkbox"/> Additional Chemical/Acid PPE | <input type="checkbox"/> Overhead Hazards | <input type="checkbox"/> Muster Point/Medical Locations |
| | | <input type="checkbox"/> Hearing Protection | <input type="checkbox"/> Fire Extinguisher | <input type="checkbox"/> Additional concerns or issues noted below | |
| Comments | | | | | |

| Product/ Service Code | Description | Unit of Measure | Quantity | Net Amount |
|-----------------------|-------------------------|-----------------|----------|------------|
| CP025 | H-Con | sack | 175.00 | \$3,234.00 |
| CP070 | 60/40/2 Pozmix | sack | 175.00 | \$2,002.00 |
| CP100 | Calcium Chloride | lb | 948.00 | \$625.68 |
| CP120 | Cello-flake | lb | 89.00 | \$137.06 |
| FE260 | 8 5/8" Guide Shoe | ea | 1.00 | \$528.00 |
| FE280 | 8 5/8" Baffle | ea | 1.00 | \$132.00 |
| FE285 | 8 5/8" Rubber Plug | ea | 1.00 | \$154.00 |
| M015 | Light Equipment Mileage | mi | 40.00 | \$70.40 |
| M010 | Heavy Equipment Mileage | mi | 40.00 | \$140.80 |
| C010 | Cement Pump Service | ea | 1.00 | \$660.00 |
| C050 | Cement Plug Container | job | 1.00 | \$220.00 |
| M020 | Ton Mileage | tm | 632.00 | \$834.24 |

| | | | |
|---|--|--|---|
| Customer Section: On the following scale how would you rate Hurricane Services Inc.? | | Net: | \$8,738.18 |
| <p>Based on this job, how likely is it you would recommend HSI to a colleague?</p> <p style="text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </p> <p style="text-align: center;"> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely </p> | | <p>Total Taxable \$ - Tax Rate:</p> <p>State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.</p> <p>Sale Tax: \$ -</p> <p>Total: \$ 8,738.18</p> | <p>HSI Representative: <i>Mike Mattal</i></p> |

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

| | | |
|-----------------------------|-------------------|------------------------|
| Customer: HERMAN LOEB LLC | Well: M-ROC 1-19 | Ticket: WP1490 |
| City, State: GREENSBURG LKS | County: KIOWA KS | Date: 6/18/21 |
| Field Rep: | S-T-R: 28-27S-18W | Service: 8 5/8 SURFACE |

| Downhole Information | | Calculated Slurry - Lead | | Calculated Slurry - Tail | |
|----------------------|-----------|--------------------------|---------------------------|--------------------------|----------------------|
| Hole Size: | in | Blend: | H-CON | Blend: | 60/40/2 POZMIX |
| Hole Depth: | 595 ft | Weight: | 11.6 ppg | Weight: | 14.8 ppg |
| Casing Size: | 8 5/8 in | Water / Sx: | 16.8 gal / sx | Water / Sx: | 5,181.21 gal / sx |
| Casing Depth: | 590.96 ft | Yield: | 2.77 ft ³ / sx | Yield: | ft ³ / sx |
| Tubing / Liner: | in | Annular Bbbs / Ft.: | bbs / ft. | Annular Bbbs / Ft.: | bbs / ft. |
| Depth: | ft | Depth: | ft | Depth: | ft |
| Tool / Packer: | | Annular Volume: | 0.0 bbbs | Annular Volume: | 0 bbbs |
| Tool Depth: | ft | Excess: | | Excess: | |
| Displacement: | 34.8 bbbs | Total Slurry: | 86.0 bbbs | Total Slurry: | 37.0 bbbs |
| | | Total Sacks: | 175 sx | Total Sacks: | 175 sx |

| TIME | RATE | PSI | STAGE BBLs | TOTAL BBLs | REMARKS |
|----------|------|-------|------------|------------|---|
| 9:45 AM | | | - | - | ON LOCATION SAFTEY MEETING |
| 12:30 PM | | | | - | RUN 8 5/8 CASING WITH GUIDE SHOE AND BAFFEL PLATE |
| 1:20 PM | | | | - | CASING ON BOTTOM, HOOK TO CASING, BREAK CIRC WITH RIG |
| 1:40 PM | 5.0 | 260.0 | 3.0 | 3.0 | PUMP 3 BBL WATER |
| 1:41 PM | 6.3 | 380.0 | 86.0 | 89.0 | MIX 175 SKS H CON |
| 1:52 PM | 5.0 | 350.0 | 37.0 | 126.0 | MIX 175 SKS 60/40/2 POZMIX |
| 2:05 PM | | | | 126.0 | DROP PLUG |
| 2:09 PM | 5.0 | 350.0 | 34.8 | 160.8 | START DISPLACEMENT |
| 2:20 PM | | 650.0 | | | PLUG DOWN, SHUT IN WELL |
| | | | | - | CEMENT TO SURFACE |
| | | | | - | |
| | | | | - | |
| | | | | - | |
| | | | | - | |
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| | | | | - | |
| | | | | - | |
| | | | | - | |
| | | | | - | |
| | | | | - | JOB COMPLETE, THANK YOU! |
| | | | | - | MIKE MATTAL |
| | | | | - | KEVEN & DARLY |
| | | | | - | |
| | | | | - | |

| CREW | | UNIT | SUMMARY | | |
|----------------|----------|---------|--------------|------------------|-------------|
| Cementer: | MATTAL | 912 | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | LESLEY | 176/522 | 5.3 bpm | 398 psi | 161 bbbs |
| Bulk #1: | MARTINEZ | 526/256 | | | |
| Bulk #2: | | | | | |

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HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
HERMAN L LOEB LLC
PO BOX 838
LAWRENCEVILLE, IL 62439

Invoice Date: 6/26/2021
Invoice #: 0353671
Lease Name: M-Roc
Well #: 1-19
County: Kiowa, Ks
Job Number: WP1529
District: Pratt

11216 → 6445 → mroc

| Date/Description | HRS/QTY | Rate | Total |
|---------------------|---------|---------|----------|
| PTA | 0.000 | 0.000 | 0.00 |
| H-Plug | 170.000 | 11.440 | 1,944.80 |
| Light Eq Mileage | 40.000 | 1.760 | 70.40 |
| Heavy Eq Mileage | 40.000 | 3.520 | 140.80 |
| Ton Mileage | 294.000 | 1.320 | 388.08 |
| Cement Pump Service | 1.000 | 968.000 | 968.00 |

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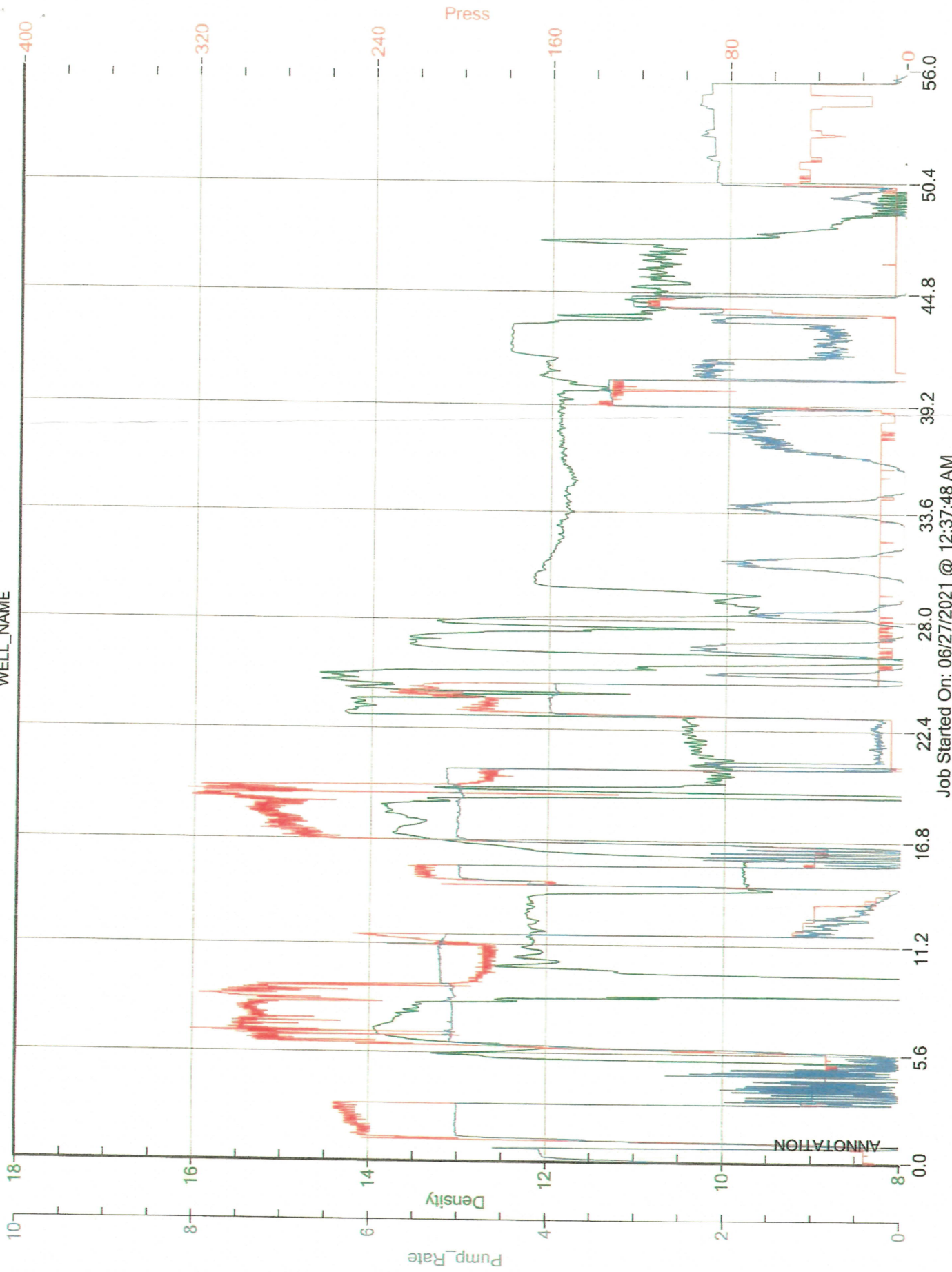
| | |
|--------------|-----------------|
| Net Invoice | 3,512.08 |
| Sales Tax: | 189.02 |
| Total | 3,701.10 |

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

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herman loeb
WELL_NAME



Job Started On: 06/27/2021 @ 12:37:48 AM