

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</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	NINA 2-10
Doc ID	1705806

Tops

Name	Top	Datum
Stone Corral	1298	1025
Chase	2558	-235
Heebner Shale	4152	-1829
Lansing A	4309	-1986
Lansing B	4333	-2010
L/KC H	4485	-2162
Base KC	4708	-2385
Miss Spergen	4920	-2597

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Nina #2-10
Location: 900' FSL & 1200' FWL, Sec. 10-T28S-R20W, Kiowa Co., KS.
Licence Number: 15-097-21864-00-00 Region: Fralick West
Spud Date: 11/11/2022 Drilling Completed: 11/18/2022
Surface Coordinates: 900' FSL & 1200' FWL, Sec. 10-T28S-R20W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2312' K.B. Elevation (ft): 2323'
Logged Interval (ft): 3450' To: TD. Total Depth (ft): 5000'
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3210'; Chemical Gel 3210' 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(Miss. Spergen Dolomite) 4903' - 4935'(32' anchor) (Corrected Depths to Log) Test Times
30"-45"-45"-90" IFP Weak blow built to 5.3 Inches of water, FFP Weak Blow built to 5.5" of water, No Blowback
on SI's; REC: 180' GOCM(10%G, 10%O, 80%M), no Water; IFP 22-59#, ISIP 1096#, FFP 69-104#, FSIP 1086#,
IHP 2429#, FHP 2406#, BHT 115 Deg. F.

DST #2(Miss. Spergen Dolomite) 4935' - 4949'(14' anchor)(Corrected Depths to Log) Test Times
30"-45"-30"-60" IFP Weak 3.5" Blow, FFP Weak 2.3" Blow, no Blowback on SI's; REC: 180' MSW(5% M, 95%W)
with oil skim on top, CI 30,000(Mudco checked); IFP 19-57#, ISIP 1145#, FFP 66-99#, FSIP 1132#, IHP 2420#,
FHP 2379#, BHT 115 Deg. F.

Comments

11/11/22 MIRU Sterling Drilling Co. Rig #4, Spud at 9:00 PM.; 11/12/22 Drilling at 385'; 11/13/22 Drilling at 757'; 11/14/22 Drilling at 1810'(Change out mud pumps); 11/15/22 Drilling at 2600'; 11/16/22 Drilling at 3775'; 11/17/22 Drilling at 4674'; 11/18/22 TD. 4936' - DST #1 on bottom testing; 11/19/22 TD. 4950' - TOH with DST #2; 11/20/22 RTD. 5000', LTD. 5000' - CCH to run 5 1/2" Production Casing.

Set new 8 5/8"(23#) Surface Casing at 535' KB. with 350 sacks cement(Hurricane Cementing Services). Cement did Circulate. PD. at 2:15 PM. 11/12/22.

Set New and Used 5 1/2"(15.5#) Production Casing at 4996' with 225 sacks of "Loeb Blend" Cement(Hurricane Services Cementing). PD. at 10:15 PM. on 11/20/22. Job performed by Alan Vratil.


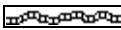
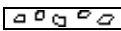
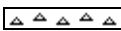
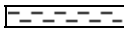







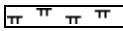

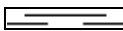
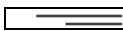
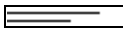



Surveys: 0.2 Deg. at 538'(Surface Casing); (Note: All surveys taken by Teledrift System); 0.3 Deg. at 1936'; 0.4 Deg. at 2318'; 0.3 Deg. at 2605'; 0.2 Deg. at 2828'; 0.2 Deg. at 3114'; 0.2 Deg. at 3401'; 0.1 Deg. at 3752'; 0.1 Deg. at 3974'; 0.1 Deg. at 4261'; 0.2 Deg. at 4452'; 0.1 Deg. at 4643'; 0.2 Deg. at 4898'; 0.3 Deg. at 4962', 0.3 Deg. at 5000'.

Pipe Strap for DST #1 at 4936': Strap Short 1.65' to the Board, no correction made to the Board.








































































After review of the ELI Wireline logs, DST and sample data, the Operator elected to set New and Used 5 1/2" Production Casing for completion in the Mississippian Spergen Dolomite section. Before abandonment, the Lansing 'B' zone should be perforated and acidized.

LOG TOPS: Stone Corral Anhydrite 1298(+1025), Chase 2558(-235), Stotler Lmst. 3486(-1163), Howard 3690(-1367), Heebner Shale 4152(-1829), Toronto 4167(-1844), Brown Lmst. 4300(-1977), Lansing 'A' 4309(-1986), Lansing 'B' 4333(-2010), L/KC 'H' 4485(-2162), Stark Shale 4628(-2305), Base Kansas City 4708(-2385), Marmaton 4720(-2397), Pawnee 4801(-2478), Cherokee Shale 4848(-2525), Base Cherokee Lmst. 4906(-2583), Mississippi Spergen 4920(-2597).

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

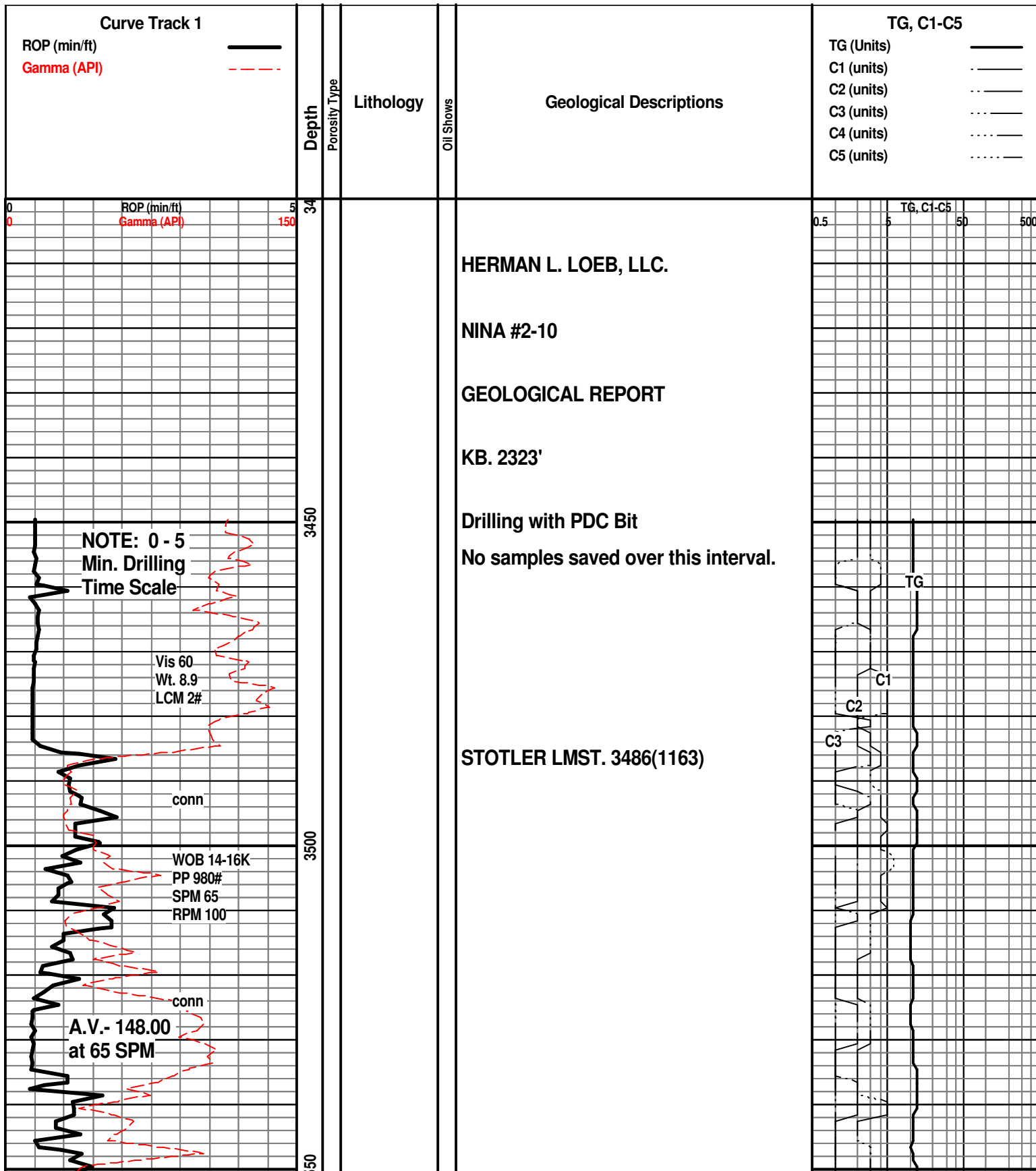
- ROUNDING**
 Rounded
 Subrnd
 Subang
 Angular

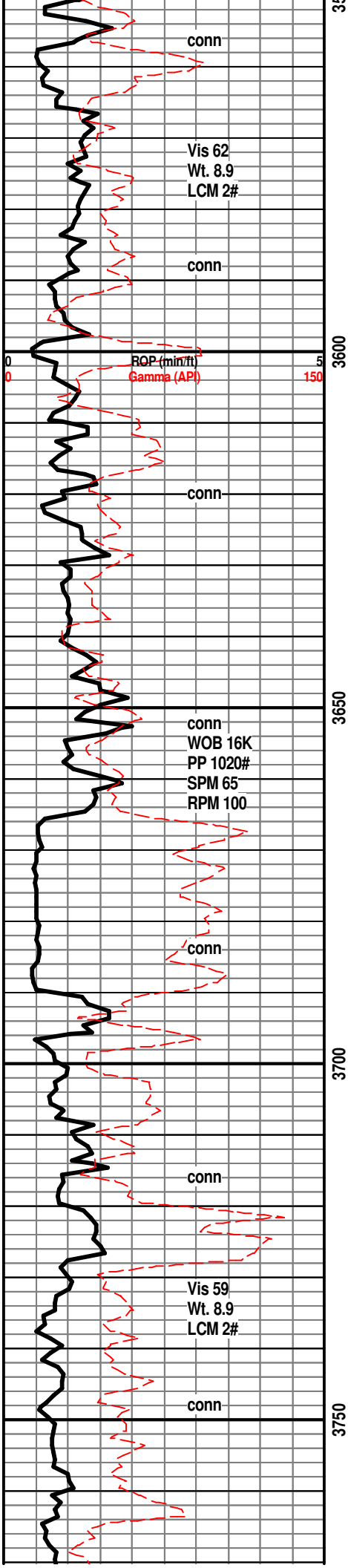
- Spotted
 Ques
 Dead

- EVENT**
 Rft
 Sidewall

- OIL SHOW**
 Even

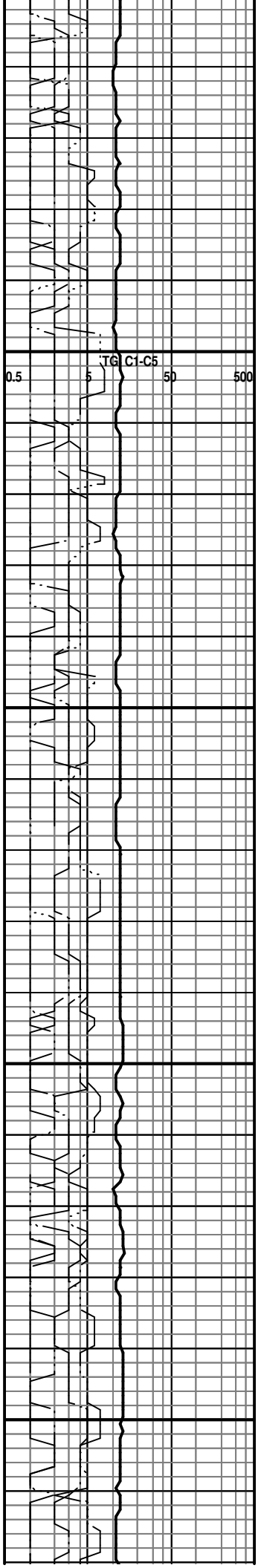
- INTERVAL**
 Core
 Dst

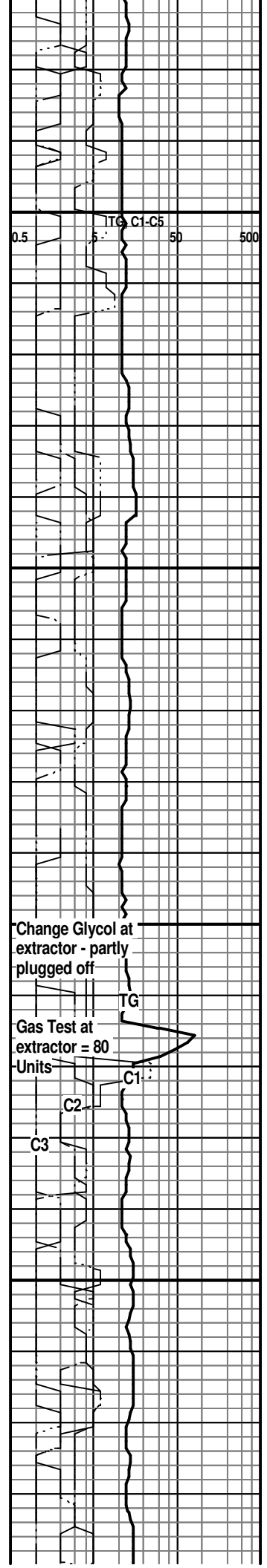
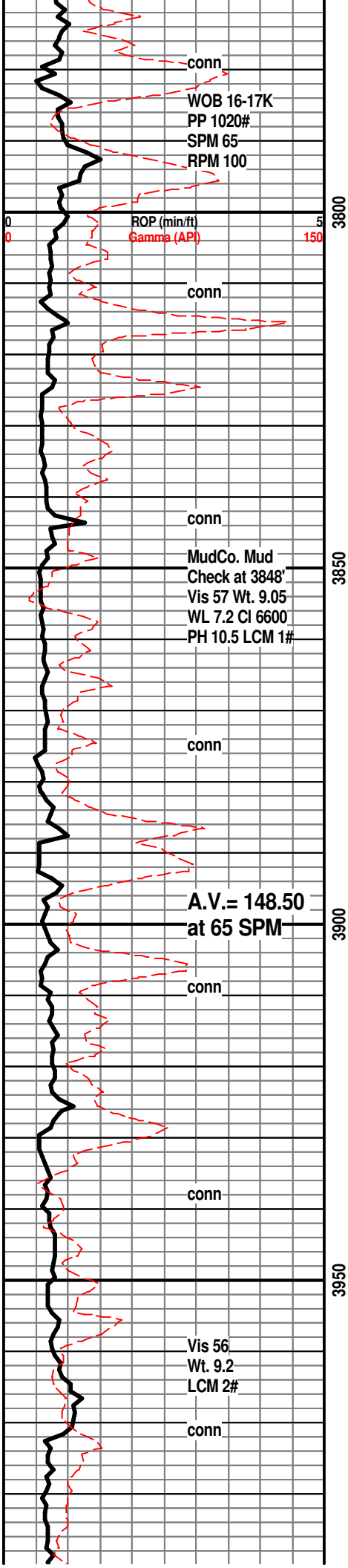


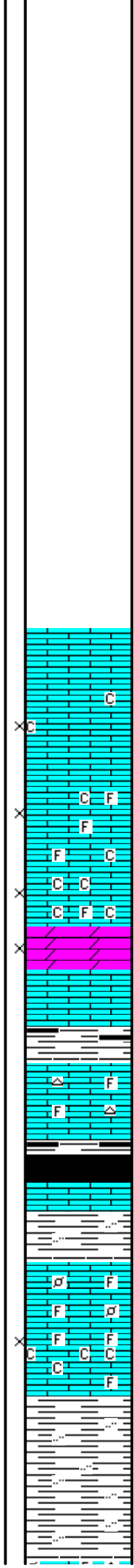
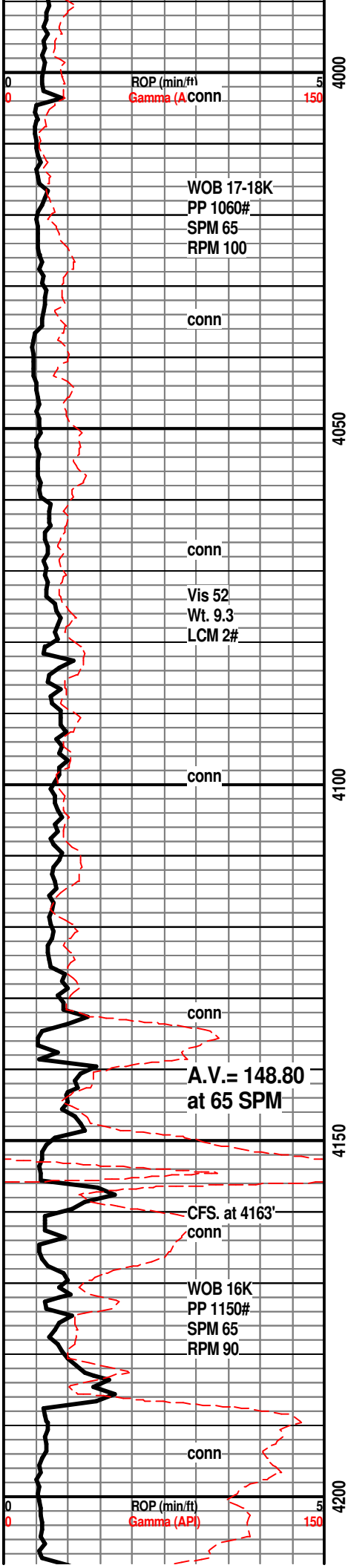


3750 3700 3650 3600 3

HOWARD 3690(-1367)







LM; tan to cream, med xln, chalky mtx ip, poor interxln por, dull yel min fluor, ns.

START 1' Drill Time; 20' Wet and Dry Samples at 4100'

LM; off wh, cream, wh, f to med xln, scat foss mat, occ fair interxln por, very chalky ip, ns.

DOL; tan to lt brn, sucrosic, fair interxln por, dull yel min fluor, no stn or odor, ns.

SH; dk gy, trc blk, platy

LM; lt gy, gy brn, most dense, rarely cherty, interbdd chalky occ foss lmst, no fluor, ns.

HEEBNER SHALE 4152(-1829)

SH; blk, carb, platy to blocky

LM; med brn, blocky, hd

SH; grn, gy grn, silty ip.

TORONTO 4167(-1844)

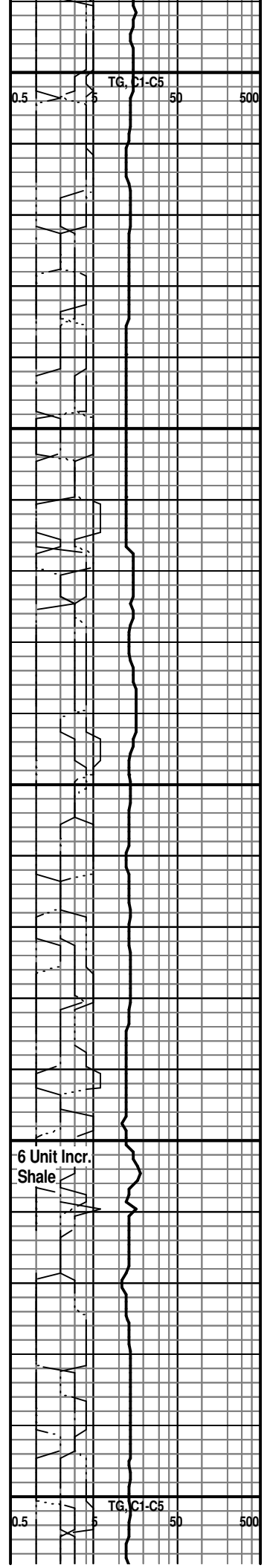
LM; tan to off wh, foss ip, most well cem, rare small pellets, no vis por, ns.

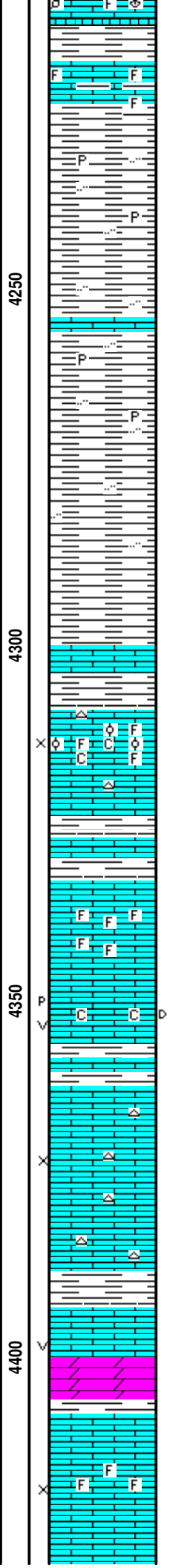
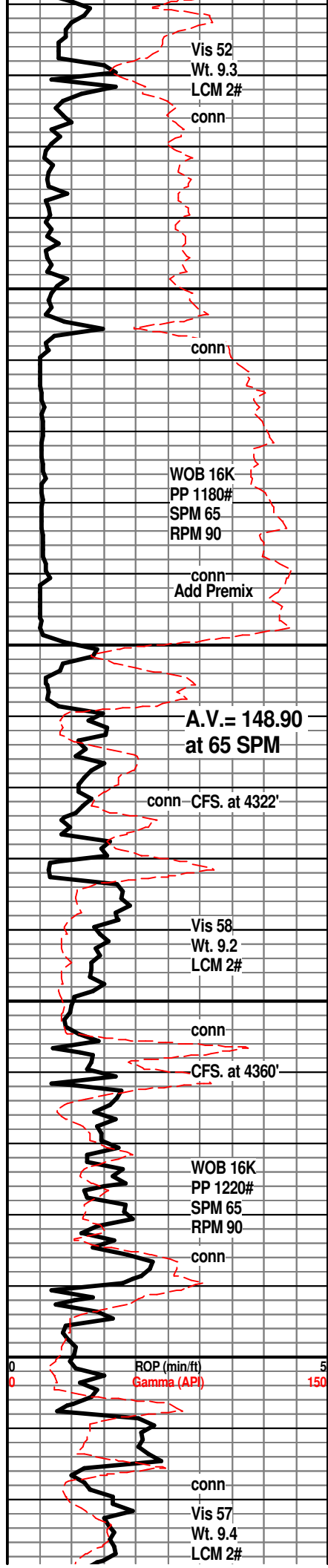
LM; off wh, buff, foss w/scat soft chalky mtx, fair to poor interpart por, dull to lt yel fluor, ns.

DOUGLAS SHALE 4187(-1864)

SH; lt gy, gy grn, silty, most soft

SH; lt gy, silty, platy





LM; med brn, gy brn, nighly foss w/ross nash, well cem, dull yel fluor, ns.

LM; med to dk brn, blocky, foss ip, argil w/shaly lmst interbdd, no vis por, dull to lt yel min fluor, ns.

SH; lt to med gy, platy, silty, rare pyr

SH; lt to med gy, soft, platy, occ pyr

SH; lt to med gy, platy, occ silty

BROWN LMST. 4300(-1977)
LM; med to dk brn, hd, blocky, tite

LANSING 'A' 4309(-1986)
LM; tan to lt brn, off wh, foss ip, rare oolitic lmst - well cem, rare chalky mtx, poor to no vis interpart por, minor wh/gy cht, no stn or odor, no gas kick, ns.

SH; lt gy, foss ip, platy

LANSING 'B' 4333(-2010)
LM; tan to cream, buff, fxln, most tite - micritic, scat foss mat, dull yel min fluor only, no stn or odor, ns.

LM; tan to cream, fxln, occ poor to fair p-p and small vug por, minor chalky mtx, scat lt yel fluor, trc dk brn oil stn, no odor, no odor

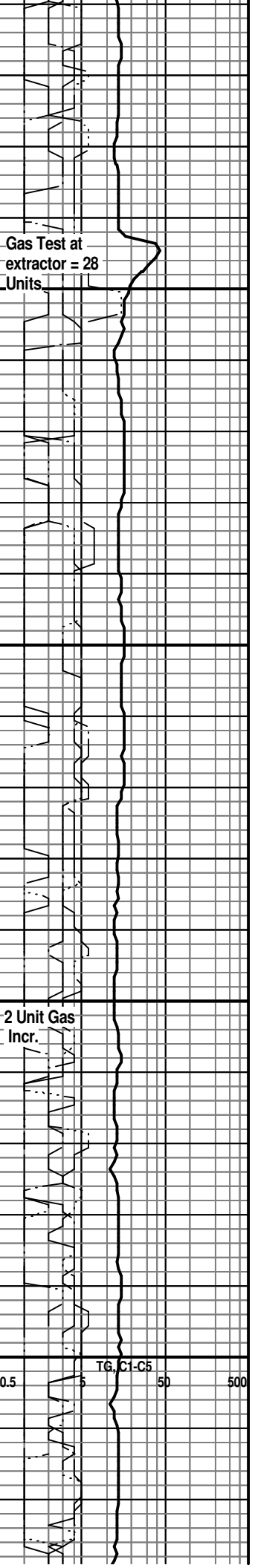
LM; tan to cream, buff, lt brn, fxln, cherty ip, most dense-micritic, trc poor interxln por, no fluor, ns.

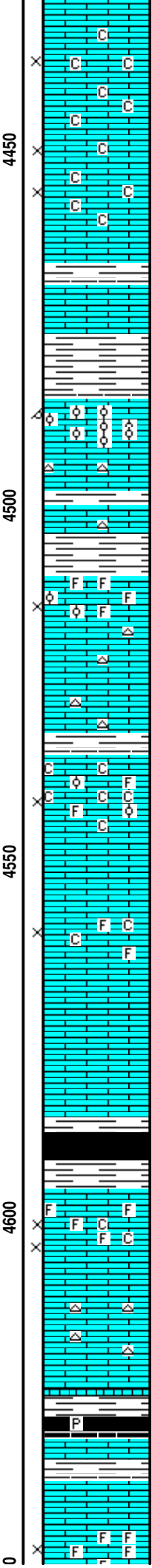
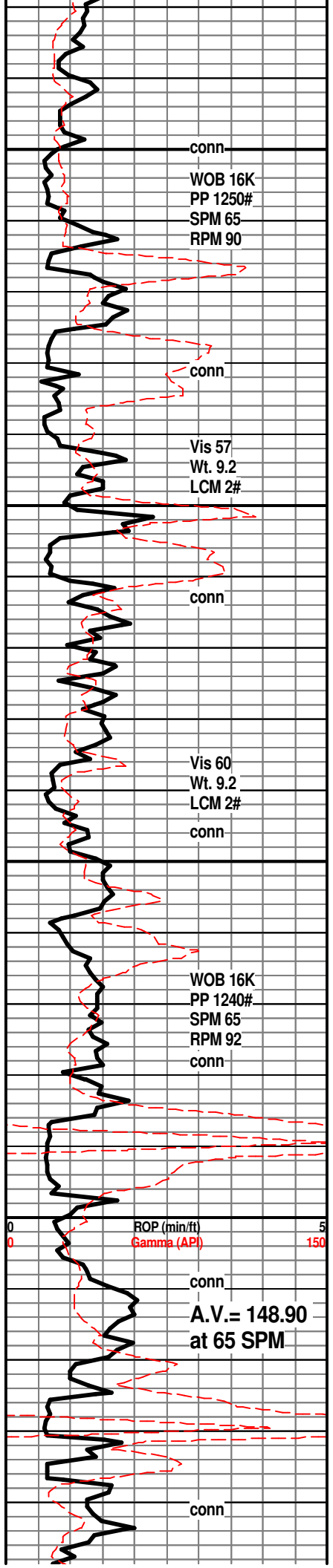
LM; lt brn, tan, fxln, scat gy to brn cht, no vis por, ns.

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

LM; med brn, gy brn, dense, blocky, tite

LM; wh, off wh, fxln w/some foss mat, fair interpart por, dull yel min fluor, interbdd wh fresh cht, dull yel min fluor, ns.





LM; wh, off wh, tan, f to med xln, poor to fair interxn por, chalky mtx, no fluor, ns.

LM; off wh, buff, abnt wh soft chalk, soft, poor to fair interxn por, lt to med yel min fluor, ns.

LM; med brn, dense, micritic, tite

SH; med to dk gy, platy

LANSING/K.C. 'H' 4485(-2162)

LM; lt brn, oolitic, good oomoldic por, lt yel min fluor, no stn or odor, barren, interbdd off wh to lt gy cht, ns.

SH; lt to med gy, platy, smooth

LM; tan to off wh, fxln w/scat foss mat, fair interpart por, lt yel min fluor, no stn or odor, ns.

LM; tan to buff, fxln, cherty ip, no vis por, no fluor, tite

K.C. 'I' ZONE 4537(-2214)

LM; off wh, wh, fxln w/ foss mat, occ oolitic lmst, abnt wh soft chalk and chalky mtx, fair interpart por, lt yel fluor, no stn or odor, ns.

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

LM; tan to buff, foss ip, poor interpart por, chalky ip, lt yel fluor, no stn or odor, ns.

LM; tan to cream, buff, most dense, occ well cem foss mat, cherty ip, lt yel fluor, no stn or odor, ns.

SH; v. dk gy - blk, platy

K.C. 'J' ZONE 4596(-2273)

LM; off wh, tan, foss ip, fair interpart por, minor soft chalky mtx, lt yel fluor, no vis stn, no odor, no gas kick

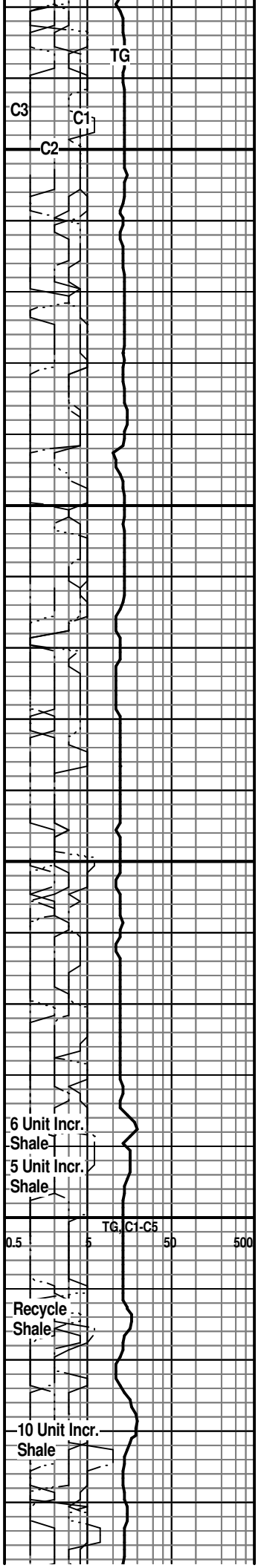
LM; lt brn, tan, most dense, blocky, interbdd brn to amber cht, dull yel min fluor, no stn or odor, ns.

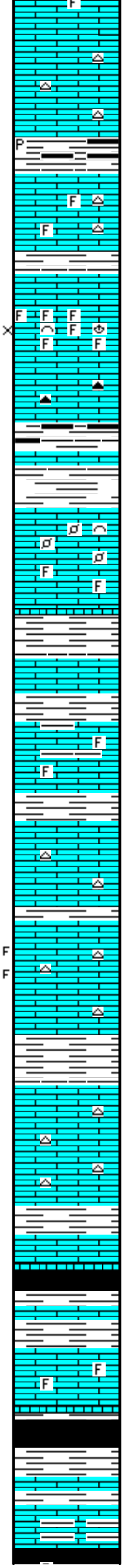
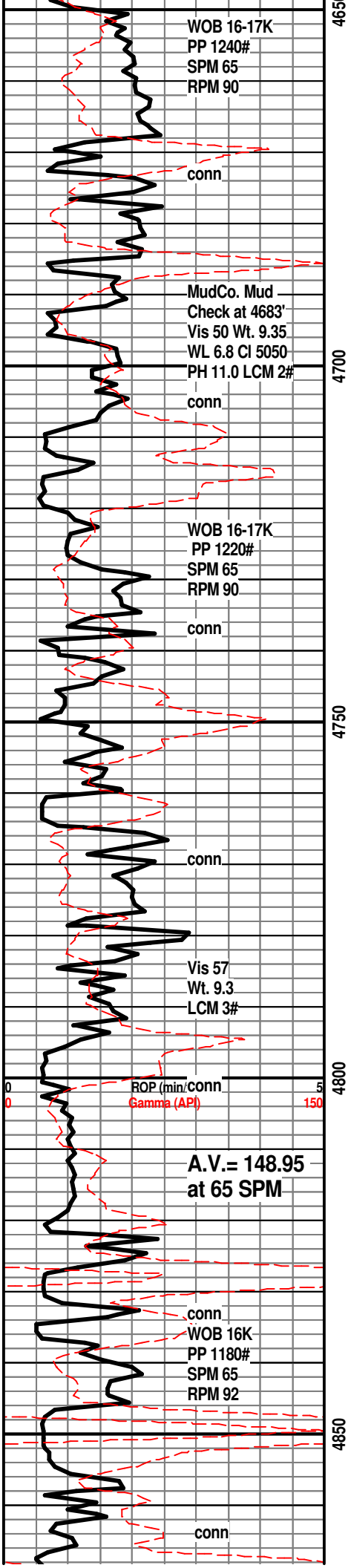
STARK SHALE 4628(-2305)

SH; blk, carb ip, rare pyr

SWOPE 4637(-2314)

LM; tan to cream, lt brn, foss ip, fair interpart por, lt yel min fluor, no stn or odor, ns.





LM; tan to cream, lt brn, most dense - blocky, scat off wh to tan cht, no vis por, dull yel fluor, ns.

SH; dk gy, trc blk, platy, rare pyr

HERTHA 4673(-2350)

LM; tan to buff, lt brn, rare well cem foss mat, most dense, occ cherty, no fluor, ns.

LM; lt to med brn, highly foss, much foss hash, fair interpart por, lt yel min fluor, no vis stn, no odor, interbdd dk brn to smoky cht, ns.

BASE KANSAS CITY 4708(-2385)

SH; med gy - gy grn, some dk gy blk, also varic sh, platy, interbdd gy brn argil lmst

MARMATON 4720(-2397)

LM; to to lt gy brn, foss ip, most well cem, no vis por, occ small pellets and foss hash, dull yel min fluor, ns.

SH, med gy, gy grn, fiss

LM; lt brn, hd, most micritic, ns.

LM; med gy brn, med brn, hd, scat well cem foss mat, some argil lmst, ns.

ALTAMONT 4765(-2442)

LM; tan to buff, lt brn, most dense - micritic, hd, scat off wh to gy cht, no vis por, no stn or odor, ns.

LM; tan to cream, fxln, occ frags w/calc xtals on frac faces, trc blk tar/gilsonite, dull yel fluor, no live shows, scat wh cht, tite

SH; med to dk gy, trc blk, platy

PAWNEE 4801(-2478)

LM; tan to lt brn, occ lt gy, most hd, blocky, no vis por, scat med gy cht, lt yel min fluor, no stn or odor, ns.

SH; med gy, firm, platy

LABETTE SHALE 4827(-2504)

SH; blk, carb, gassy w/faint gas odor

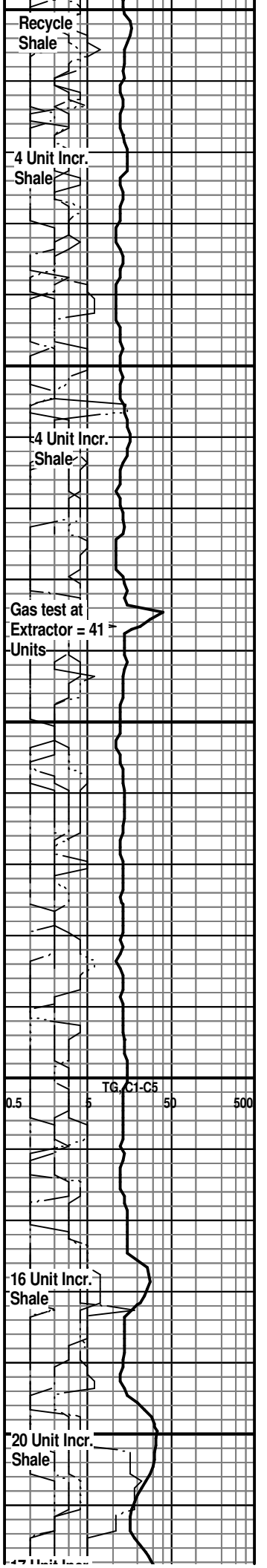
LM; tan to med brn, foss ip, well cem, blocky, lt yel fluor, no stn or odor, ns.

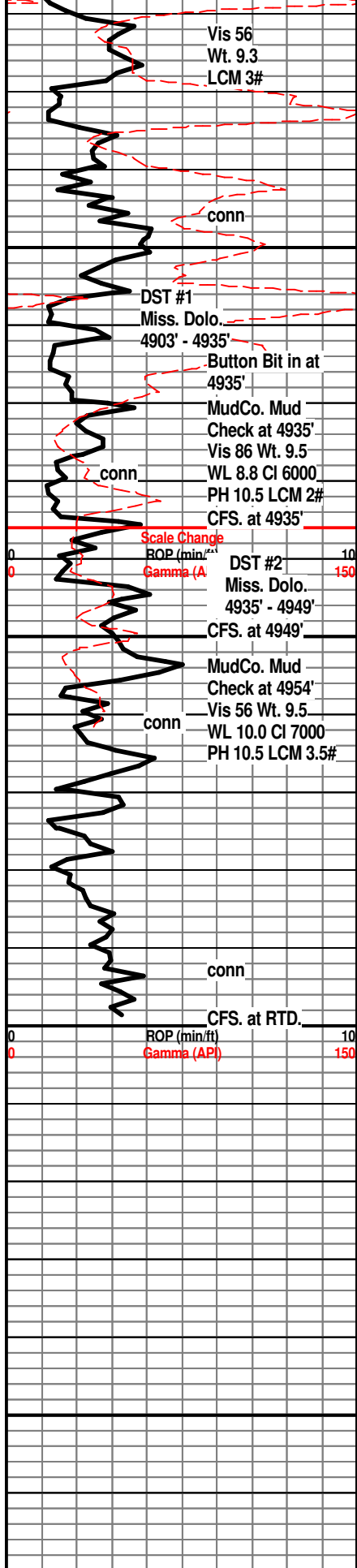
CHEROKEE SHALE 4848(-2525)

SH; blk, carb, platy to blocky, trc gas

LM; med brn, gy brn, argil ip, scat well cem foss, dull yel fluor, no vis stn, no odor, ns.

SH; blk, platy, carb in trc pyr





SH; brn, platy, carb ip, tlc pyr
LM; tan to lt brn, foss ip, most well cem, blocky, no vis por, lt to med yel fluor, no vis stn, no odor, ns.

SH; grn, gy grn, platy, silty ip.
LM; med brn, blocky, dense, no vis por, lt yel min fluor, ns.

LM; lt to med brn, foss ip, well cem, most dense-micritic, tite

BASE CHEROKEE LMST. 4906(-2583)

SH; varic, platy, interbdd tite argil lmst.

MISS. SPERGEN 4920(-2597)
LM; wh, med to cse xln, pyr ip, spotted oil stn

DOL; med brn, sucrosic, rare med xln, even med brn stn, good odor, SFO, med/ brite yel fluor, vug/p-p/interxln por, trc gas, gd cut, rare glau

DOL; lt brn, sucrosic, fair vug/p-p/interxln por, brite yel fluor, SFO, gd odor, gd cut, even med brn oil stn, some barren por/bleeding oil/gas

LMY DOL; wh, off wh, tite, no fluor, ns.

DST #2: Miss. Dolomite 4935' - 4949'
LM; off wh, cse xln, dense, pyr ip, occ glau, tite

DOL; tan to off wh - wh, sucrosic, poor interxln por, dull yel fluor, rarely glau, no stn or odor, no gas kick

CHT; lt gy, fresh, interbdd hd cherty dolo, dull yel min fluor, no stn or odor, ns.

CHT; wh, lt gy, dolomitic ip, interbdd tan to cream dolo, dull yel min fluor, no stn or odor, ns.

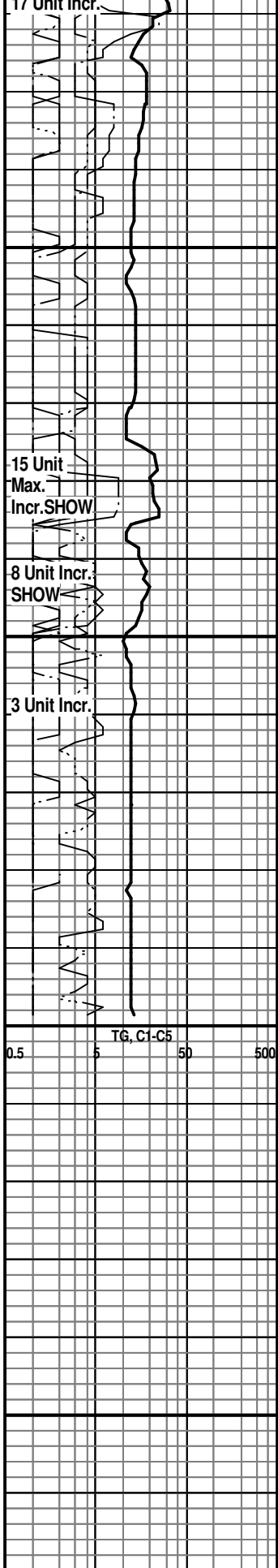
DOL; tan to cream, sucrosic, lmy ip, tite

LM; lt brn, gritty text, partly dolomitic, no fluor, no stn or odor, ns.

RTD. 5000' at 3:00 PM. 11/19/22

LTD. 5000'

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





DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Nina #2-10

10-28s-20w Kiowa,KS

Start Date: 2022.11.18 @ 02:05:00

End Date: 2022.11.18 @ 11:10:47

Job Ticket #: 69255 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.11.22 @ 09:06:58

Herman L. Loeb, LLC
10-28s-20w Kiowa,KS
Nina #2-10
DST # 1
Miss.
2022.11.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

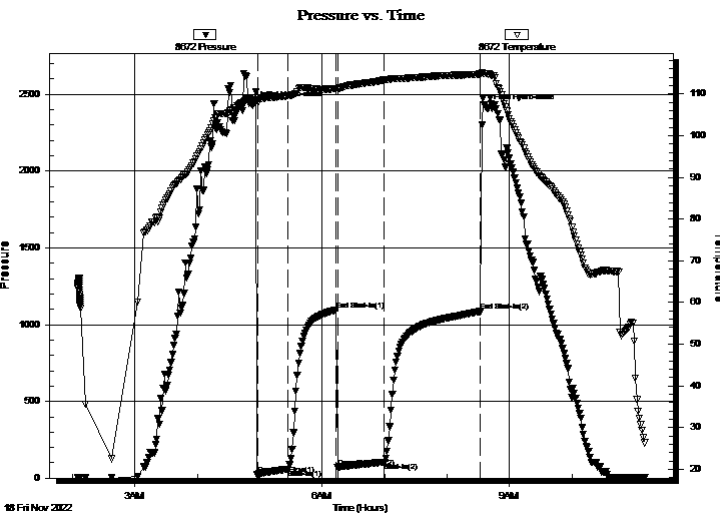
10-28s-20w Kiowa,KS
Nina #2-10
 Job Ticket: 69255 **DST#: 1**
 Test Start: 2022.11.18 @ 02:05:00

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:57:32
 Time Test Ended: 11:10:47
 Interval: **4904.00 ft (KB) To 4936.00 ft (KB) (TVD)**
 Total Depth: 4936.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 2323.00 ft (KB)
 2312.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 104.09 psig @ 4906.00 ft (KB) Capacity: psig
 Start Date: 2022.11.18 End Date: 2022.11.18 Last Calib.: 2022.11.18
 Start Time: 02:05:01 End Time: 11:10:47 Time On Btm: 2022.11.18 @ 04:53:47
 Time Off Btm: 2022.11.18 @ 08:38:02

TEST COMMENT: IF: 30 min., fair building blow , 5.3 inches
 IS: 45 min., no blow back
 FF: 45 min., fair building blow , 5.5 inches
 FS: 90 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2429.30	109.01	Initial Hydro-static
4	22.34	108.41	Open To Flow (1)
33	58.65	109.56	Shut-In(1)
80	1096.16	111.22	End Shut-In(1)
81	69.03	111.21	Open To Flow (2)
126	104.09	113.30	Shut-In(2)
219	1085.66	114.74	End Shut-In(2)
225	2405.90	114.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gas cut oily mud 10%G,10%O,80%M	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L. Loeb, LLC

10-28s-20w Kiowa,KS

PO Box 838
Lawrenceville, IL 62439

Nina #2-10

Job Ticket: 69255

DST#: 1

ATTN: Jon Christensen

Test Start: 2022.11.18 @ 02:05:00

Tool Information

Drill Pipe:	Length: 4684.00 ft	Diameter: 3.80 inches	Volume: 65.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 66.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4904.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4884.00	
Hydraulic tool	5.00			4889.00	
Isolator Sub	3.00			4892.00	
Safety Joint	3.00			4895.00	
Packer	5.00			4900.00	25.00 Bottom Of Top Packer
Packer	4.00			4904.00	
Stubb	1.00			4905.00	
Perforations	1.00			4906.00	
Recorder	0.00	8672	Inside	4906.00	
Recorder	0.00	6751	Outside	4906.00	
Pickup sub perf	5.00			4911.00	
Perforations	22.00			4933.00	
Bullnose	3.00			4936.00	32.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC

10-28s-20w Kiowa,KS

PO Box 838
Lawrenceville, IL 62439

Nina #2-10

Job Ticket: 69255

DST#: 1

ATTN: Jon Christensen

Test Start: 2022.11.18 @ 02:05:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5050.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	gas cut oily mud 10%G,10%O,80%M	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

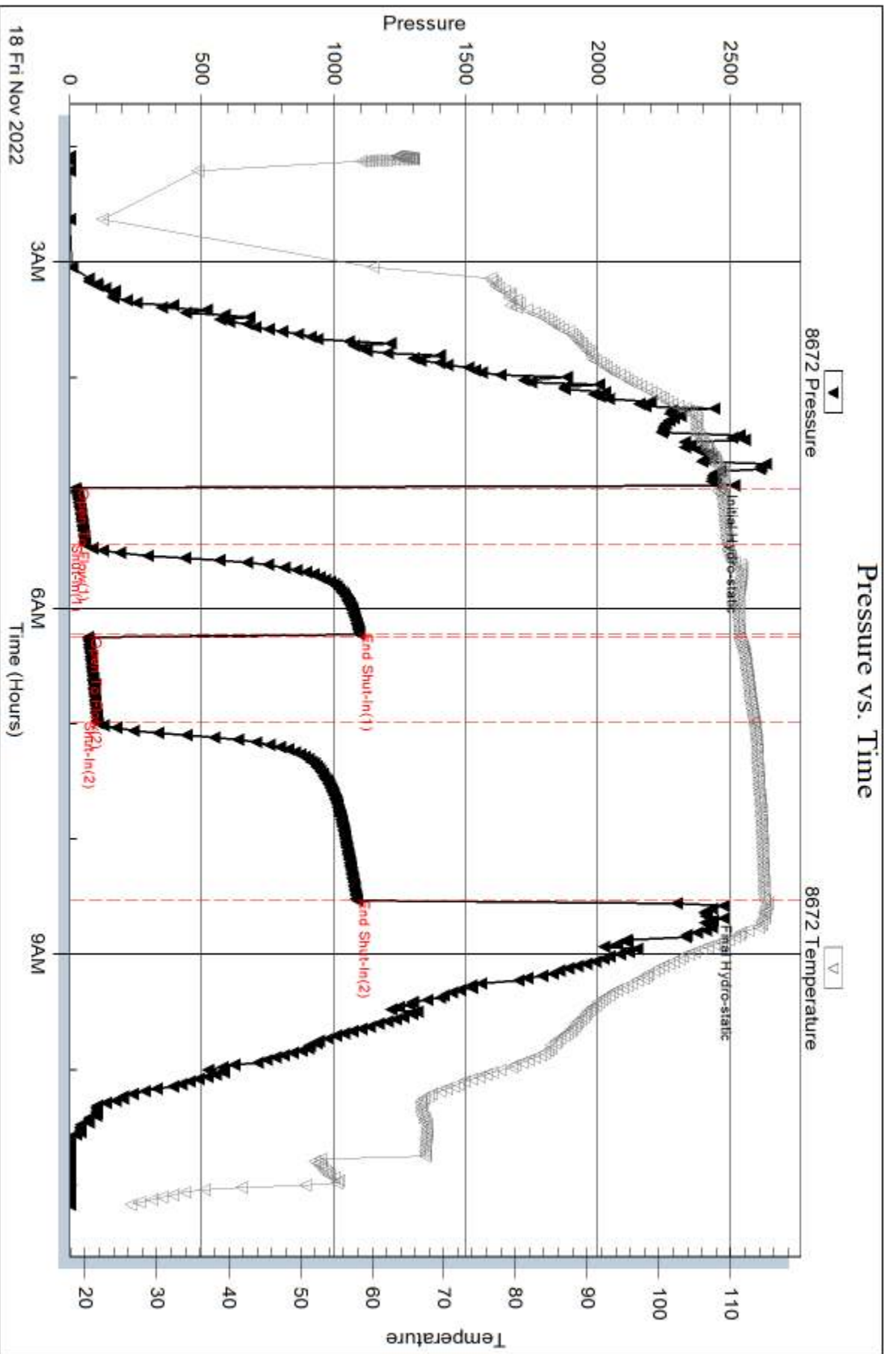
Num Gas Bombs: 0

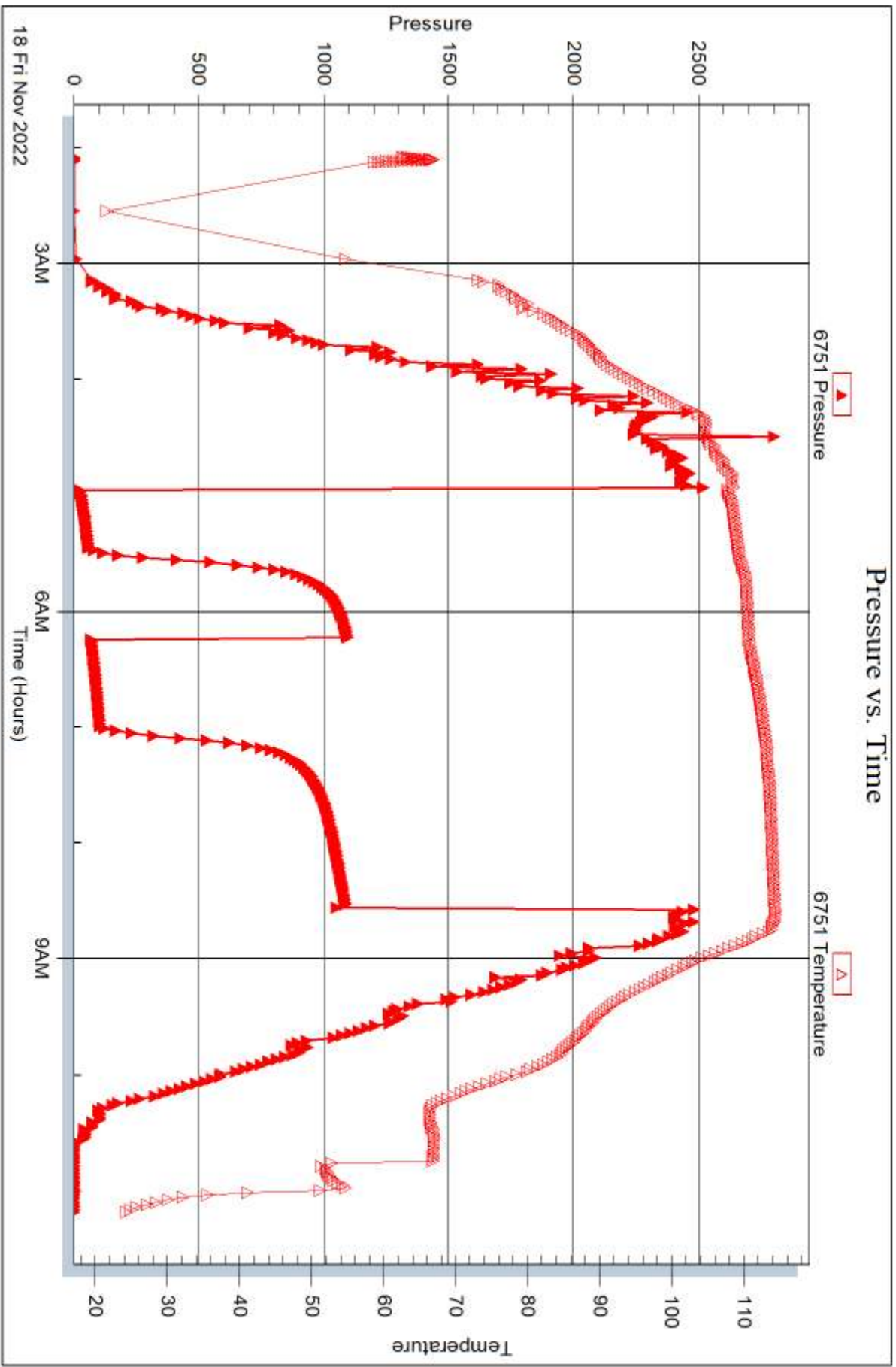
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 838
Lawrenceville, IL 62439

ATTN: Jon Christensen

Nina #2-10

10-28s-20w Kiowa,KS

Start Date: 2022.11.19 @ 01:15:00

End Date: 2022.11.19 @ 08:39:02

Job Ticket #: 69256 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.11.22 @ 08:55:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

10-28s-20w Kiowa,KS
Nina #2-10
 Job Ticket: 69256 **DST#: 2**
 Test Start: 2022.11.19 @ 01:15:00

GENERAL INFORMATION:

Formation: **Miss. Dolomite**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:20:02
 Time Test Ended: 08:39:02
 Interval: **4936.00 ft (KB) To 4950.00 ft (KB) (TVD)**
 Total Depth: 4950.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 2323.00 ft (KB)
 2312.00 ft (CF)
 KB to GR/CF: 11.00 ft

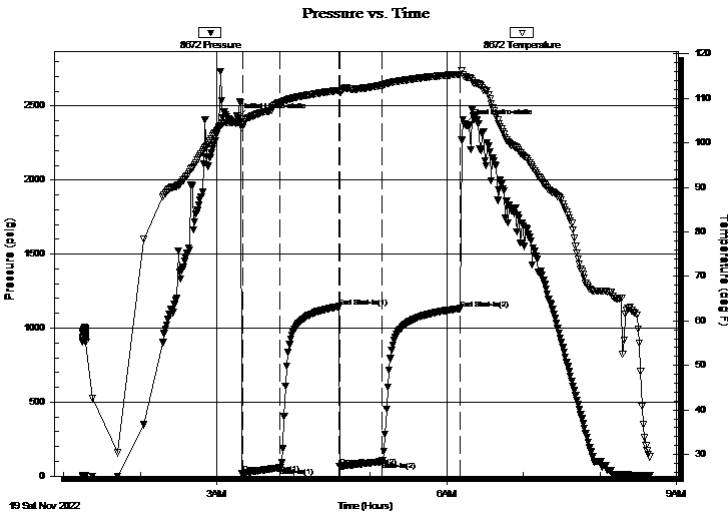
Serial #: 8672

Inside

Press@RunDepth: 98.64 psig @ 4937.00 ft (KB) Capacity: psig
 Start Date: 2022.11.19 End Date: 2022.11.19 Last Calib.: 2022.11.19
 Start Time: 01:15:01 End Time: 08:39:02 Time On Btm: 2022.11.19 @ 03:16:32
 Time Off Btm: 2022.11.19 @ 06:14:02

TEST COMMENT: IF: 30 min., fair building blow , 3.5 inches
 IS: 45 min., no blow back
 FF: 30 min., fair building blow , 2.3 inches
 FS: 60 min., no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.75	104.60	Initial Hydro-static
4	18.82	104.12	Open To Flow (1)
33	56.82	109.08	Shut-In(1)
79	1144.99	111.77	End Shut-In(1)
80	66.33	111.31	Open To Flow (2)
113	98.64	112.94	Shut-In(2)
175	1131.93	115.43	End Shut-In(2)
178	2378.99	114.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	muddy water 5%M, 95%W	0.89

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

10-28s-20w Kiowa,KS
Nina #2-10
 Job Ticket: 69256 **DST#: 2**
 Test Start: 2022.11.19 @ 01:15:00

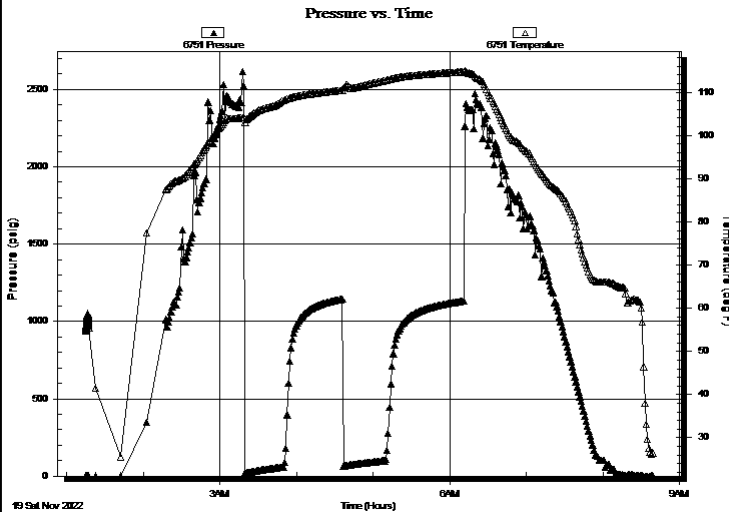
GENERAL INFORMATION:

Formation: **Miss. Dolomite**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:20:02
 Time Test Ended: 08:39:02
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Interval: **4936.00 ft (KB) To 4950.00 ft (KB) (TVD)**
 Reference Elevations: 2323.00 ft (KB)
 Total Depth: 4950.00 ft (KB) (TVD) 2312.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 4937.00 ft (KB) Capacity: psig
 Start Date: 2022.11.19 End Date: 2022.11.19 Last Calib.: 1899.12.30
 Start Time: 01:15:01 End Time: 08:39:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 30 min., fair building blow, 3.5 inches
 IS: 45 min., no blow back
 FF: 30 min., fair building blow, 2.3 inches
 FS: 60 min., no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	muddy water 5%M, 95%W	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

10-28s-20w Kiowa,KS
Nina #2-10
 Job Ticket: 69256 **DST#: 2**
 Test Start: 2022.11.19 @ 01:15:00

Tool Information

Drill Pipe:	Length: 4716.00 ft	Diameter: 3.80 inches	Volume: 66.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 67.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4936.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4916.00	
Hydraulic tool	5.00			4921.00	
Isolator Sub	3.00			4924.00	
Safety Joint	3.00			4927.00	
Packer	5.00			4932.00	25.00 Bottom Of Top Packer
Packer	4.00			4936.00	
Stubb	1.00			4937.00	
Recorder	0.00	8672	Inside	4937.00	
Recorder	0.00	6751	Outside	4937.00	
Pickup sub perf	5.00			4942.00	
Perforations	5.00			4947.00	
Bullnose	3.00			4950.00	14.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

10-28s-20w Kiowa,KS
Nina #2-10
 Job Ticket: 69256 **DST#: 2**
 Test Start: 2022.11.19 @ 01:15:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	17000 ppm
Viscosity: 86.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	muddy water 5%M, 95%W	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW=.516@55F=17000ppm

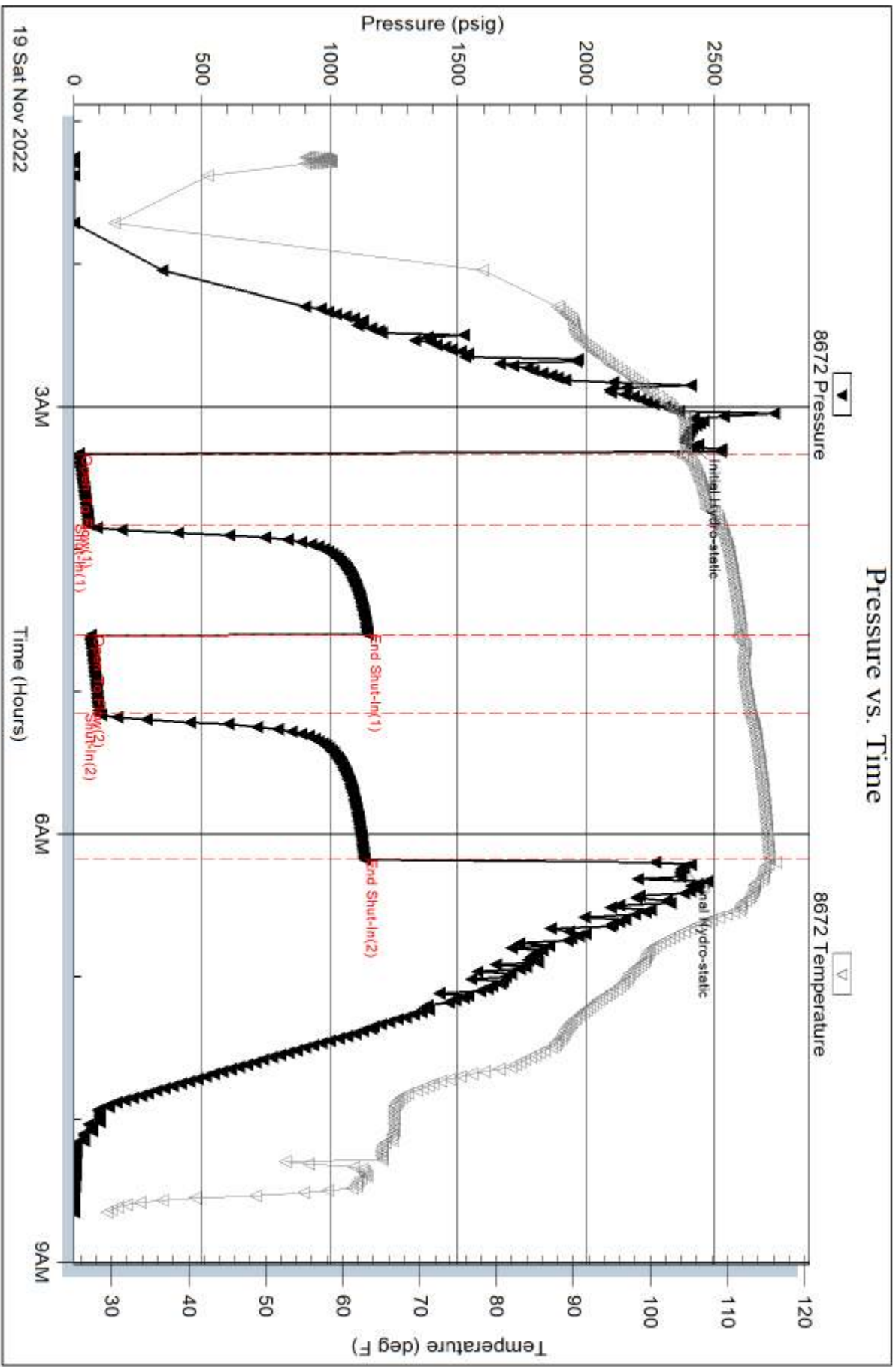
Serial #: 8672

Inside

Herman L. Loeb, LLC

Nina #2-10

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69256

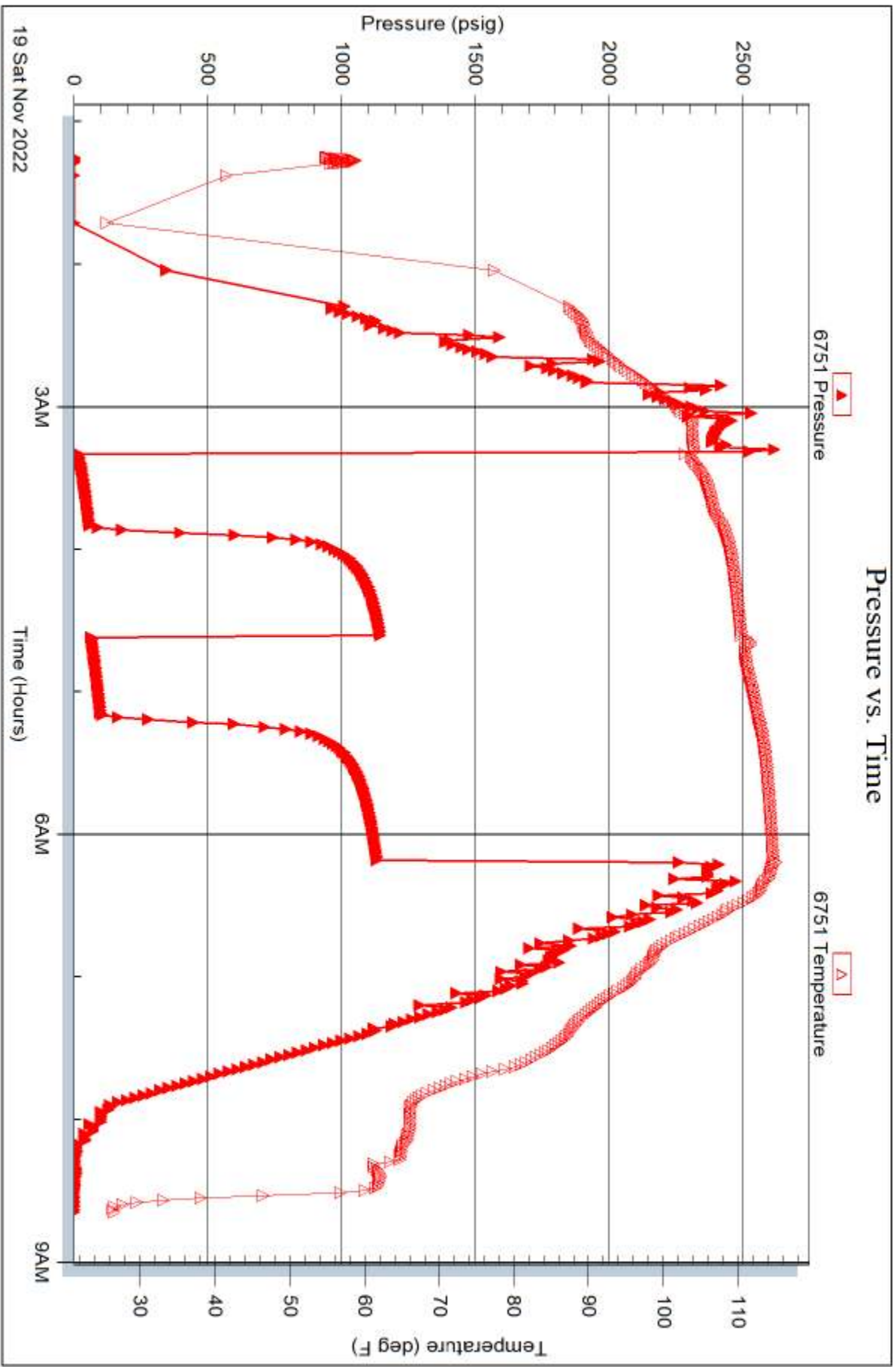
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Serial #: 6751

Outside Herman L. Loeb, LLC

Nina #2-10

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69255

Well Name & No. Herman L. Loeb, LLC Nina 2-10 Test No. 1 Date 11-18-22
 Company Herman L. Loeb, LLC Elevation 2323 KB 2312 GL
 Address P.O. Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling #4
 Location: Sec. 10 Twp 28 Rge. 20 Co. Kiowa State KS

Interval Tested 4904-4936 Zone Tested Miss.
 Anchor Length 32' Drill Pipe Run 4684 Mud Wt. 9.35
 Top Packer Depth 4899 Drill Collars Run 210 Vis 50
 Bottom Packer Depth 4904 Wt. Pipe Run N.A. WL 6.8
 Total Depth 4936 Chlorides 5050 ppm System LCM 2#

Blow Description IP: 30 min, fair building blow, 5.3 inches
BSB: 45 min, no blow back
EP: 45 min, fair building blow, 5.5 inches
PSB: 90 min, no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>gassy oily mud</u>	<u>10</u>	<u>10</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 115 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2429 Test CONV ¹⁹⁵⁰
 (B) First Initial Flow 22 Jars
 (C) First Final Flow 59 Safety Joint
 (D) Initial Shut-In 1096 Circ Sub
 (E) Second Initial Flow 69 Hourly Standby
 (F) Second Final Flow 104 Mileage x 100 ¹⁷⁵
 (G) Final Shut-In 1086 Sampler
 (H) Final Hydrostatic 2406 Straddle

T-On Location 0000
 T-Started 0230
 T-Open 0500
 T-Pulled 0830
 T-Out 1100
 Comments 0205

EM Tool Steel -175
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total -175
 Total 1950

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 90

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 2125

MP/DST Disc't _____

Approved By _____

Our Representative Chris Hogren

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

785-656-3947



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69256

Well Name & No. Nina 2-10 Test No. 2 Date 11-19-72
 Company Herman Loeb, LLC Elevation 2323 KB 2312 GL
 Address P.O. Box 838 Lawrenceville IL 62439
 Co. Rep / Geo. Jan Christensen Rig Sterling #4
 Location: Sec. 10 Twp 28 Rge. 20 Co. Kiowa State KS

Interval Tested 4936-4950 Zone Tested Miss. Dolomite
 Anchor Length 14' Drill Pipe Run 4716 Mud Wt. 9.5
 Top Packer Depth 4931 Drill Collars Run 210 Vls 86
 Bottom Packer Depth 4936 Wt. Pipe Run 0 WL 8.8
 Total Depth 4950 Chlorides 6000 ppm System LCM 2#

Blow Description RFI 30 min, fair building blow, 3.5 inches
BSD: No blow back, 45 min.
FF: 30 min., fair building blow, 2.3 inches
BSD: 60 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>muddy water</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 115 Gravity API RW 1.516 @ ~~53~~ 175 °F Chlorides 17,000 ppm

(A) Initial Hydrostatic 2420 Test com. 1950 T-On Location 0030
 (B) First Initial Flow 19 Jars no, didn't run T-Started 0130
 (C) First Final Flow 57 Safety Joint _____ T-Open 0325
 (D) Initial Shut-In 1145 Circ Sub _____ T-Pulled 0615
 (E) Second Initial Flow 66 Hourly Standby _____ T-Out 0830
 (F) Second Final Flow 99 Mileage 100 175 Comments 0115
 (G) Final Shut-In 1132 Sampler _____
 (H) Final Hydrostatic 2379 Straddle _____ EM Tool good -175

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total -175
 Accessibility _____ Total 1950
 Sub Total 2125 MP/DST Disc't _____

Approved By _____ Our Representative Chris Hagen

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



Customer#	HERMAN LOEB	Lease # Well #	NINA 2-10	Date	11/12/2022
Service District	PRATT	County & State	KIOWAS KS	Log # S/T/P	10-285-20W
Job Type	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	Truck #
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
179/821	CLIFTON	<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 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					

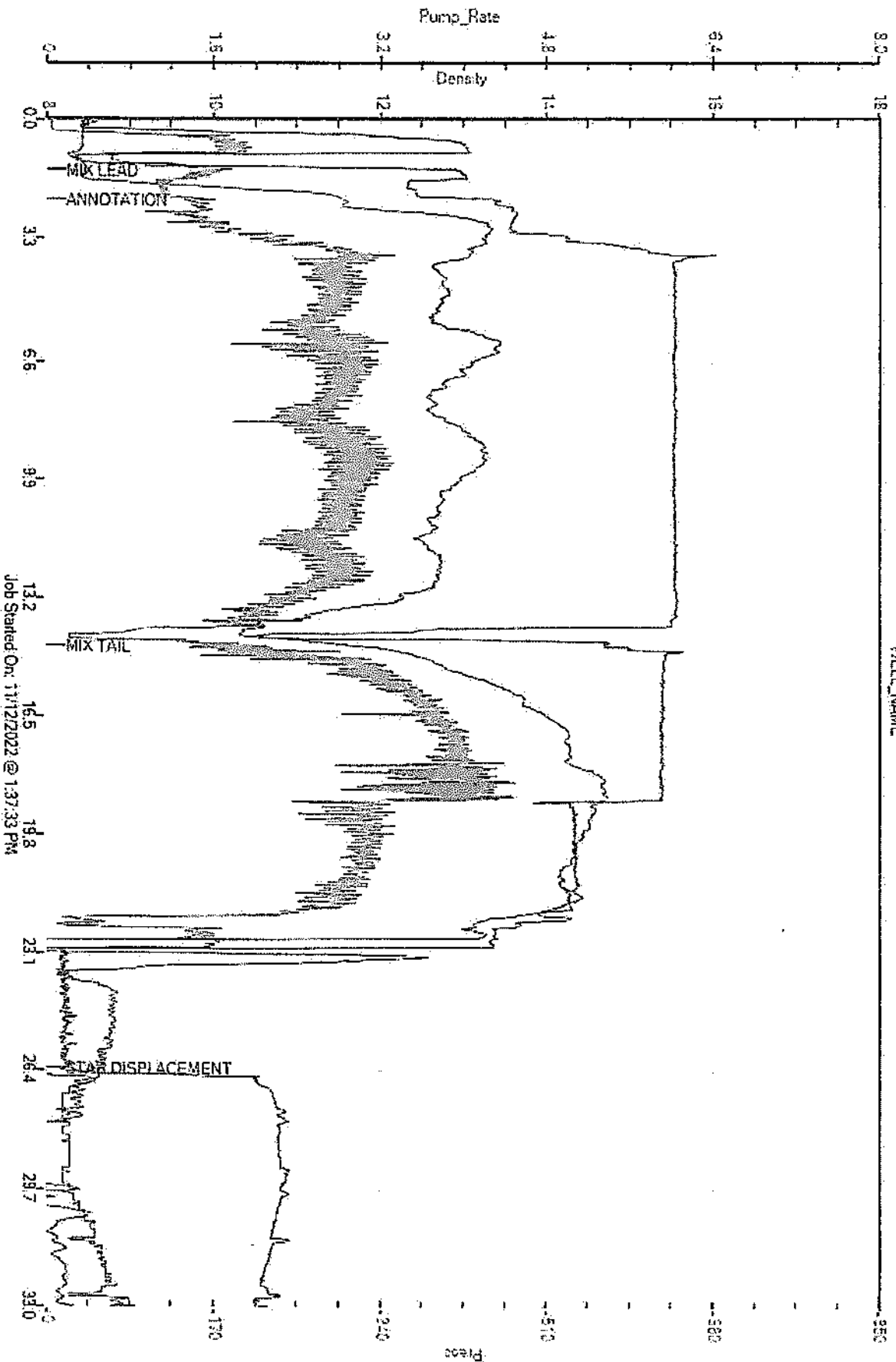
Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP025	H-Con	sack	175.00	\$4,375.00
CP070	60/40/2 Pozmix A	sack	175.00	\$2,625.00
CP100	Calcium Chloride	lb	483.00	\$339.75
CP120	Cello-floke	lb	46.00	\$77.00
FE230	8 5/8" Guide Shoe	ea	1.00	\$600.00
FE280	8 5/8" Baffle	ea	1.00	\$150.00
FE285	8 5/8" Rubber Plug	ea	1.00	\$175.00
M015	Light Equipment Mileage	mi	45.00	\$90.00
M016	Heavy Equipment Mileage	mi	90.00	\$360.00
M020	Ton Mileage	tm	711.00	\$1,066.50
C090	Cement Blending & Mixing Service	sack	350.00	\$490.00
C011	Depth Charge: 501'-1000'	job	1.00	\$1,250.00
C035	Cement Data Acquisition	job	1.00	\$250.00
C050	Cement Plug Container	job	1.00	\$260.00
R051	Service Supervisor	day	1.00	\$276.00

Customer Signature: <i>[Signature]</i>		Net:	\$12,373.25
Based on this job, how likely is it you would recommend HSI to a colleague? <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"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		Total Taxable: \$ - Tax Rate: Sale Tax: \$ - Total: \$ 12,373.25	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.
HSI Representative: <i>Mike Mattal</i>			

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 1/2% 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.

[Signature]
CUSTOMER AUTHORIZATION SIGNATURE

CUSTOMER
WELL NAME





Customer	HERMAN LOEB	Lease & Well #	NINA 2-10	Date	11/20/2022
Service District	PRATT, KS.	County & State	KIOWA, KS.	Legals S/T/R	10-285-20W
Job Type	LONGSTRING	PROD	<input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Ticket #			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
813	K. BRUNGARDT	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
936	LESLEY	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
176-522	JULLIAN	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
182-534	TREVINO	<input 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
5 1/2" LONGSTRING

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP055	50/50/2 Pozmix	sack	225.00	\$3,037.50
CP055	H-Plug A	sack	50.00	\$700.00
CP105	Gypsum	lb	945.00	\$945.00
CP110	Koi Seal	lb	1,350.00	\$1,012.50
CP120	Cello-flake	lb	57.00	\$99.75
CP132	Cement Fluid Loss 2	lb	95.00	\$1,425.00
CP135	Defoamer Powder	lb	36.00	\$152.00
AF357	Potassium Chloride Powder	lb	505.00	\$763.50
FE165	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$375.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
FE130	5 1/2" Cement Basket	ea	2.00	\$600.00
FE185	5 1/2" Cement Scratchers Resciprocating Type	ea	5.00	\$388.50
FE135	5 1/2" Turbolizer	ea	12.00	\$1,500.00
GP170	Mud Flush	gal	1,000.00	\$1,000.00
AF055	Liquid KCL Substitute 2	gal	6.00	\$100.00
M015	Light Equipment Mileage	mi	45.00	\$90.00
M010	Heavy Equipment Mileage	mi	90.00	\$360.00
M020	Ton Mileage	tn	\$20.00	\$780.00
C060	Cement Blending & Mixing Service	sack	275.00	\$385.00
D015	Depth Charge: 4001'-5000'	job	1.00	\$2,500.00
G035	Cement Data Acquisition	job	1.00	\$250.00
C050	Cement Plug Container	job	1.00	\$250.00
R051	Service Supervisor	day	1.00	\$275.00

Customer Section: On the following scale, how would you rate Hurricane Services, Inc.?		Nat:	\$17,338.75	
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -	
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <small>Extremely Liked</small>		Tax Rate:		
		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.	Sale Tax:	\$ -
			Total:	\$ 17,338.75
		HSI Representative:	<i>KEVIN LESLEY</i>	

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X

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer: HERMAN LOEB	Well: NINA 2-10	Ticket: WP 3653
City, State:	County: KIOWA, KS.	Date: 11/20/2022
Field Rep:	S-T-R: 10-28S-20W	Service: LONGSTRING

Downhole Information

Hole Size:	7 7/8 In
Hole Depth:	5000 ft
Casing Size:	5 1/2 In
Casing Depth:	4998 ft
Tubing / Liner:	In
PLUG DEPTH:	4975 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	118.0 bbls

15.5#

Calculated Slurry - Lead

Blend:	
Weight:	ppg
Water / Sk:	gal / sx
Yield:	ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

Calculated Slurry - Tail

Blend:	50/50/2 POZMIX
Weight:	14 ppg
Water / Sk:	5.4 gal / sx
Yield:	1.36 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	54.5 bbls
Total Sacks:	225 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
9:00AM			-	-	ON LOCATION- SPOT PUMP TRUCK
4:45PM			-	-	RUN 119 JTS, 5 1/2" X 15.5#
			-	-	SRATCHERS- 2 @ TOP OF 2, 3 @ THE BOTTOM OF 3
			-	-	CENTS- 1,2,3,6,8,11,14,16,17,20,23,25
			-	-	BASKETS- 8 AND 23
6:00PM			-	-	CIRCULATE 1/2 WAY IN HOLE
			-	-	CASING ON BOTTOM
			-	-	HOOK UP TO CASING - BREAK CIRCULATION WITH RIG PUMP AND MUD
9:15PM	5.0		5.0	5.0	H2o AHEAD
9:16PM	5.0		24.0	29.0	MUD FLUSH
9:21PM	5.0		5.0	34.0	H2o SPACER
9:22PM	5.0		54.5		MIX 225 SKS 50/50/2 POZMIX @ 14 PPG
9:40PM					SHUT DOWN- CLEAR PUMP AND LINES- DROP L.O.PLUG
10:00PM	6.5	100.0	-		START DISPLACEMENT
10:12PM	5.0	500.0	85.0		LIFT PRESSURE
10:17PM	4.0	700.0	110.0		SLOW RATE
10:20PM	3.0	1,500.0	118.0		PLUG DOWN- HELD
					CIRCULATION THRU JOB
					PLUG RAT HOLE
					PLUG MOUSEHOLE
					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVIN AND CREW

CREW		UNIT	SUMMARY		
Cementer:	K. BRUNGARDT	913	Average Rate	Average Pressure	Total Fluid
Pump Operator:	LESLEY	936	4.8 bpm	700 psi	402 bbls
Bulk #1:	JULLIAN	176-522			
Bulk #2:	TREVINO	182-534			

HERMAN LOEB
NINA 2-10 LS

