

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 1-10
Doc ID	1590239

Tops

Name	Top	Datum
Blaine Anhy	1294	1024
Chase	2548	-230
Toronto	4154	-1836
Lansing A	4298	-1980
Lansing B	4322	-2004
LKC H	4476	-2158
KC J	4584	-2266
Base KC	4700	-2382
Marmaton	4741	-2423
Miss Warsaw	4914	-2596

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Nina #1-10
Location: 1800' FSL & 465' FWL, Sec. 10-T28S-R20W, Kiowa Co., KS.
Licence Number: 15-097-21857 Region: Fralick West Ext.
Spud Date: 5/26/2021 Drilling Completed: 6/3/2021
Surface Coordinates: 1800' FSL & 465' FWL, Sec. 10-T28S-R20W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2307' K.B. Elevation (ft): 2318'
Logged Interval (ft): 3500' To: 5000' Total Depth (ft): 5000'
Formation: Mississippian at TD.
Type of Drilling Fluid: Freshwater/Gel to 3468'; Chemical Gel 3468' 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(Lansing 'B' zone) 4330' - 4347'(Corrected Depths to Log) Test Times 15"-45"-15"-90" IFP Strong Blow BOB/20 Sec, GTS in 3 1/2 Min. Gauged Max. 274 MCFG(took Gas Sample); FFP Strong Blow GTS, Spray oil in 12 Min; REC: GIP, 378' GO(10%G, 90%O - API 38 Deg), 632' GOCMW(35%G, 1%O, 39%W, 25%M), 60' GMW(10%G, 80%W, 10%M) CI 122,000; IFP 439 - 389#, ISIP 1216#, FFP 463-557#, FSIP 1152#, IHP 2153#, FHP 2142#, BHT 120 Deg. F.

DST #2(Miss. Warsaw) 4896' - 4940'(Corrected Depths to Log) Test Times 15"-45"-60"-120" IFP Strong Blow BOB/4 Min., FFP Strong Blow BOB/2 3/4 Min., Strong BOB Blowback on FSI - Gas To Surface - TSTM; REC: 3886' GIP, 1056' Total Fluid: 113' CGO(20%G, 80%O - API 36.7 Deg), 126' G&MCWO(30%G, 30%O, 10%W, 30%M), 252' GWMO(20%G, 45%O, 20%W, 10%M), 126'GOCMW(20%G, 10%O, 5%M, 65%W), 252' GMW(10%G, 88%W, 2%M, Trc O), 187' GMW(10%G, 1%M, 89%W) CI 55,000; IFP 112-185#, ISIP 1394#, FFP 208-476#, FSIP 1387#, IHP 2319#, FHP 2323#, BHT 128 Deg. F.

Comments

5/26/21 MIRU Sterling Drilling Co. Rig #4, Spud at 8:20 PM. , 5/27/21 TD. 514' - Wiper Trip; 5/28/21 Drilling at 1330'; 5/29/21 Drilling at 3020'; 5/30/21 Drilling at 4140'; 5/31/21 TD. 4350' - DST #1; 6/1/21 Drilling at 4675'; 6/2/21 TD. 4942' - DST #2; 6/3/21 RTD. 5000' at 1:55 AM., Logging well; RTD. 5000', LTD 4999' - 5 1/2" Production Casing set, tear down/rig maintenance.

Set new 8 5/8"(23#) Surface Casing at 510' KB. with 350 sacks cement(Hurricane Well Services). Cement did Circulate. PD. at 10:30 AM. 5/28/21.

Set new 5 1/2" 15.5# Production Casing at 4995' KB. Cement with 225 Sacks of "Loeb Blend" cement(Hurricane Services Cementing). PD. at 12:45 AM. 6/4/21.

Surveys: 0.5 Deg. at 514'(Surface Casing); 0.5 Deg. at 4072'(Bit Trip); 1.25 Deg. at 4350'(DST #1); 1.25 Deg. at 4942'(DST #2).


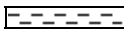

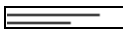
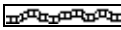



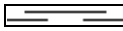


Pipe Strap at 4073'(Bit Trip): Strap 0.94' Short to the Board, no correction made.

After review of the ELI Wireline logs, DST's and sample shows of hydrocarbons, the operator elected to set new 5 1/2" Production casing for completion in the Mississippian and Lansing 'B' zone.







































































LOG TOPS: Blaine Anhy. 1294(+1024), Chase 2548(-230), Stotler Lmst. 3480(-1162), Heebner Shale 413(-1820), Toronto 4154(-1836), Brown Lmst. 4289(-1971), Lansing 'A' 4298(-1980), Lansing 'B' 4322(-2004), L/KC 'H' 4476(-2158), K.C. 'J' 4584(-2266), Stark Shale 4617(-2299), Base K.C. 4700(-2382), Marmaton 4741(-2423), Pawnee 4793(-2475), Cherokee Shale 4840(-2522), Miss. Warsaw 4914(-2596).

NOTE: Portions of this log were shifted upward by 2' to 3' for correlation purposes with the ELI Wireline logs.

ROCK TYPES

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

ACCESSORIES

MINERAL		FOSSIL	
 Anhy	 Gyp	 Algae	 Ostra
 Arggrn	 Hvymin	 Amph	 Pelec
 Arg	 Kaol	 Belm	 Pellet
 Bent	 Marl	 Bioclst	 Pisolite
 Bit	 Minxl	 Brach	 Plant
 Brecfrag	 Nodule	 Bryozoa	 Strom
 Calc	 Phos	 Cephal	STRINGER
 Carb	 Pyr	 Coral	 Anhy
 Chtdk	 Salt	 Crin	 Arg
 Chtlt	 Sandy	 Echin	 Bent
 Dol	 Silt	 Fish	 Coal
 Feldspar	 Sulphur	 Foram	 Dol
 Ferrpel	 Tuff	 Fossil	 Gyp
 Ferr		 Gastro	 Ls
 Glau		 Oolite	 Mrst
			 Sltstrg
			 Ssstrg
			TEXTURE
			 Boundst
			 Chalky
			 Cryxln
			 Earthy
			 Finexln
			 Grainst
			 Lithogr
			 Microxln
			 Mudst
			 Packst
			 Wackest

OTHER SYMBOLS

- POROSITY**
- E Earthy
 - F Fenest
 - F Fracture
 - X Inter
 - M Moldic
 - O Organic
 - P Pinpoint

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

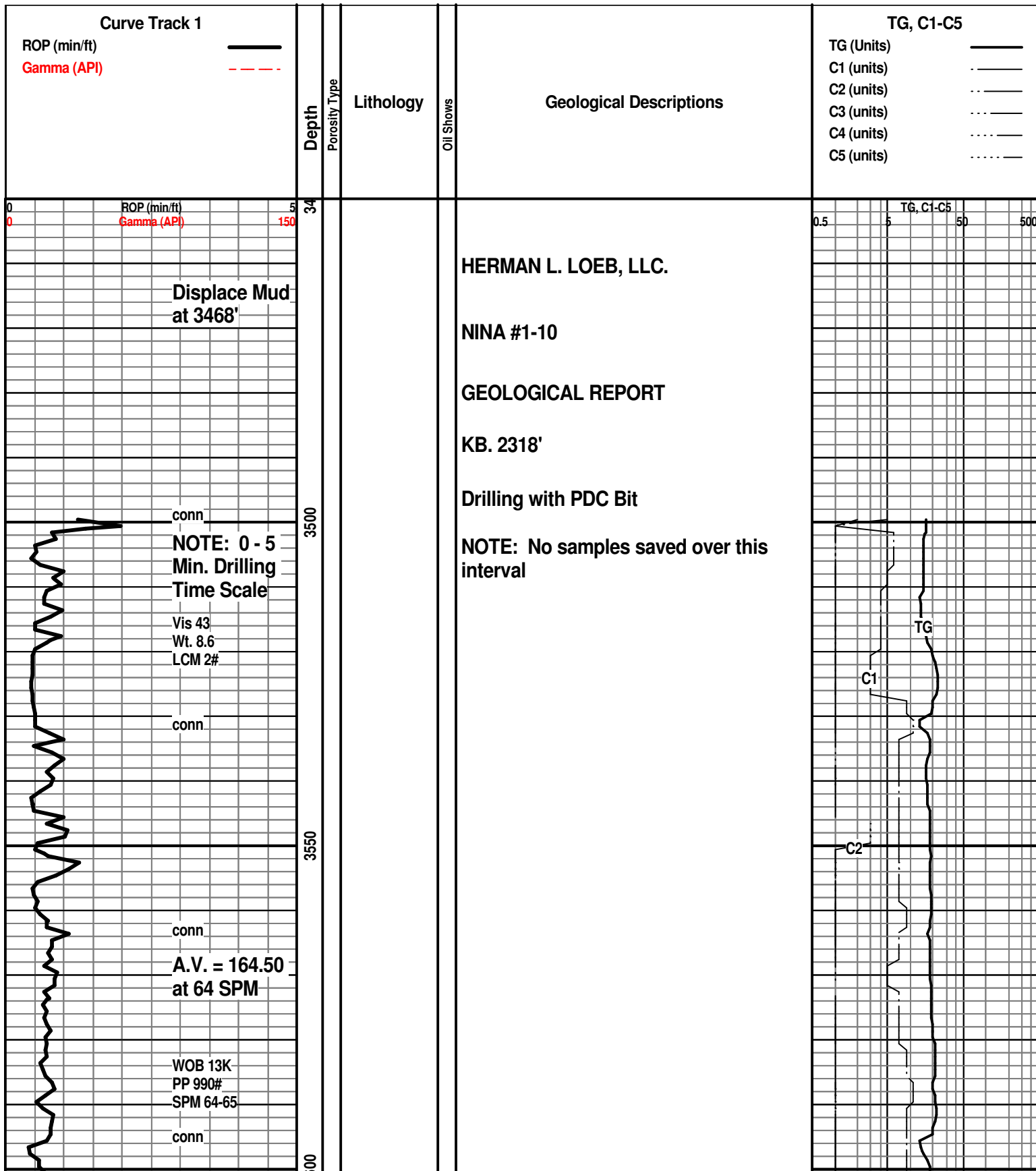
- ROUNDING**
- R Rounded
 - S Subrnd
 - a Subang
 - A Angular

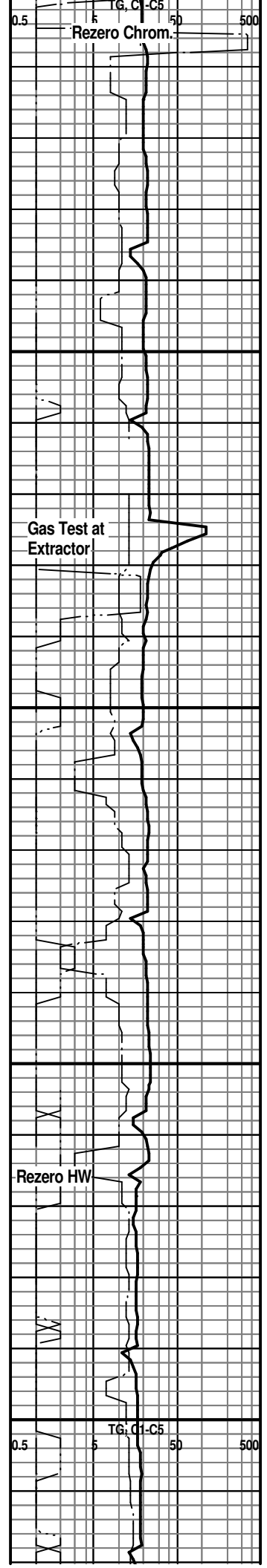
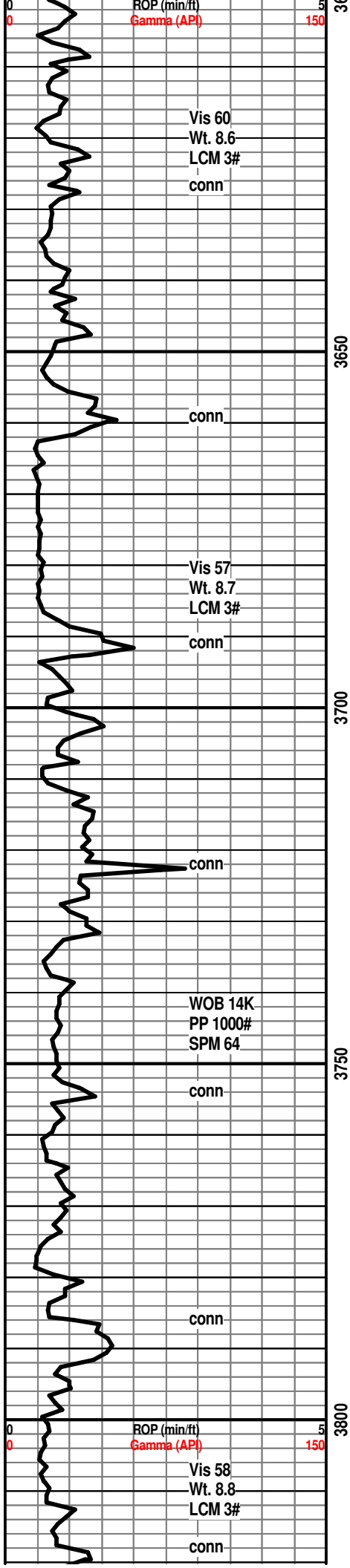
- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- INTERVAL**
- Core
 - Dst

- OIL SHOW**
- Even





A.V.= 164.50
at 64 SPM

conn

3850

WOB 14K
PP 1000#
SPM 64

conn

3900

conn

Vis 55
Wt. 8.9
LCM 3#

conn

3950

conn

WOB 14-15K
PP 1000#
SPM 64

4000

ROP (min/ft)
Gamma (API)

conn

Vis 52
Wt. 9.0
LCM 2#

conn

TG

C1

C2

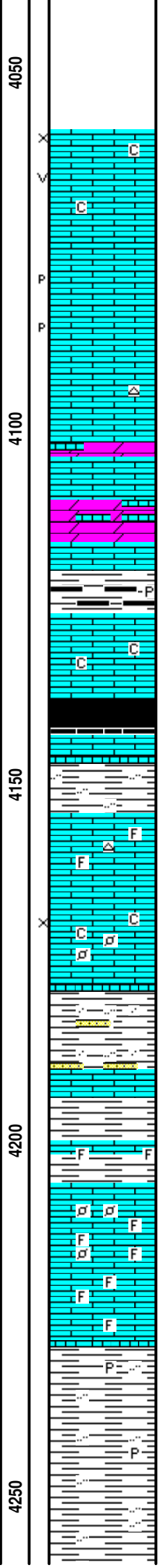
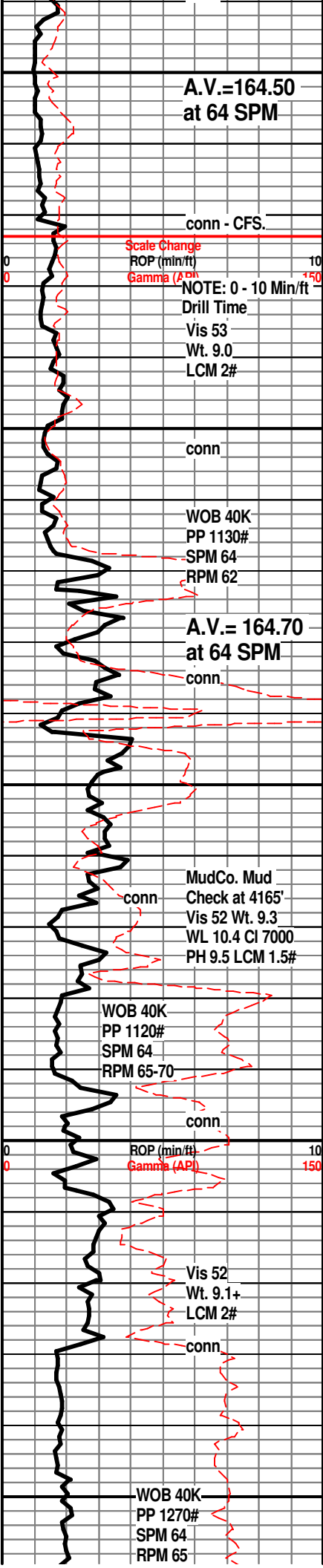
TG, C1, C2

0.5

5

50

500



LM; tan to buff, off wh, f to med xln, scat fair interxln w/occ vug por, chalky mtx ip, lt yel min fluor, ns.

**BIT TRIP AT 4073'
Start 10' Wet and Dry Samples**

LM; tan to cream, buff, fxln, scat fair p-p por, lt yel min fluor, ns.

LM; tan to buff, off wh, fxln ip, some tite, trc lt gy cht, lt yel min fluor, ns.

DOL; lt brn, sucrosic, fair interxln por, some lmy - tite, lt yel min fluor, ns.

SH; dk gy, occ blk, blocky, trc pyr

LM; tan to med brn, some dense - micritic, hd, occ fxln chalky lmst, dull yel min fluor, ns.

HEEBNER SHALE 4138(-1820)

SH; blk, carb, trc gas

LM; med to dk brn, blocky, tite

SH; lt gy, rare grn, firm, silty

TORONTO 4154(-1836)

LM; tan to lt brn, foss ip, most well cem, trc gy cht, dull yel min fluor, ns.

LM; wh to off wh, buff, f to med xln, fair interxln por, chalky ip, interbdd finely pelletal/foss lmst, dull yel fluor, no stn or odor, ns.

DOUGLAS SHALE 4179(-1861)

SH; lt gy, grn, silty to sandy, interbdd vf gr qtz ss

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

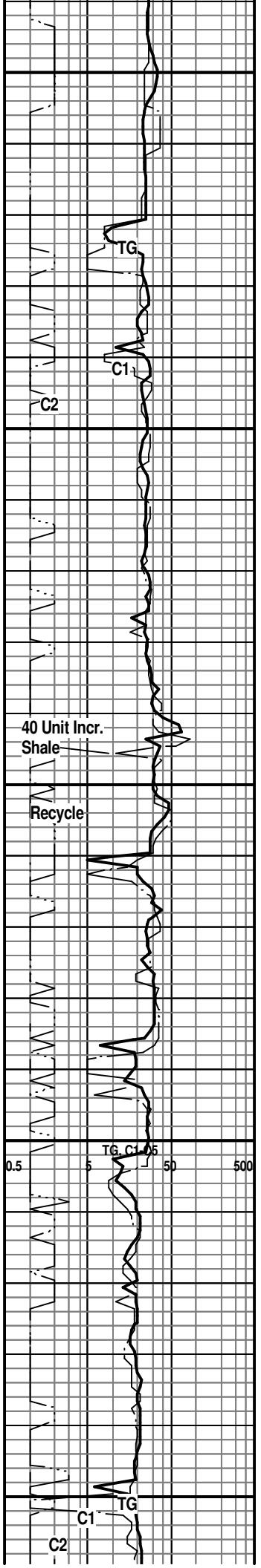
SH; med gy, lmy w/shaly lmst - gy foss lmst interbdd

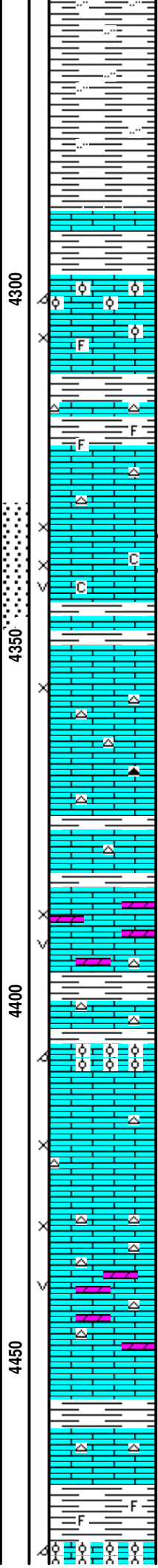
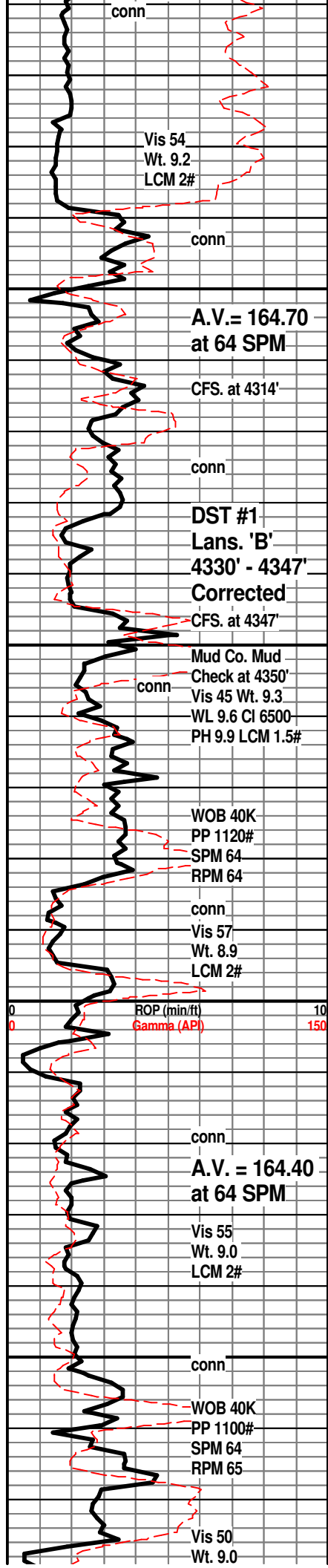
LM; med brn, foss, most well cem, hd-blocky, scat small pellets and foss hash, lt yel min fluor, no stn or odor, ns.

LM; tan to lt brn, blocky, well cem foss mat, no vis por, ns.

SH; lt gy, gy grn, silty ip, occ soft, rare pyr

SH; lt to med gy, platy, silty ip.





SH; It to med gy, smooth, silty ip.

BROWN LMST. 4289(-1971)

LM; med/dk brn, blocky, dense

LANSING 'A' 4298(-1980)

LM; tan to lt brn, oolitic, poor/fair oomoldic por, lt yel fluor, no vis stn, no odor, no gas kick

LM; tan to cream, f to med xln, poor interxln por, some foss hash, no stn or odor, ns.

LM; tan to lt brn, most dense, cherty ip, tite

LANSING 'B' 4322(-2004)

LM; tan to cream, off wh, fxln ip, rare off wh fresh cht, no vis por, lt yel fluor, no stn or odor

LM; tan-buff, fxln to gran text, fair to gd interxln por, lt yel fluor, sev. gas bubbles, gd odor

LM; tan to lt gy, fxln, fair to gd interxln w/vug por, much brite yel fluor, SFO, gd odor, spotted/even lt brn oil stn, gas bubbles, minor chalky mtx

**DST #1(Lansing 'B') 4330' - 4347'
Corrected Depths to Log**

LM; tan to buff, cream, f to med xln, poor to no vis interxln por, dull yel fluor, no stn or odor, ns, interbdd gy fresh cht

LM; tan to lt brn, most blocky, hd, scat med to occ dk gy cht, no vis por, ns.

LM; It to med brn, micritic, blocky, tite

LM; cream - buff, sucrosic text, partly dolomitic, fair interxln/rare small vug por, no fluor, no stn or odor, occ chalky mtx, no sample shows

LM; It brn, mottled text, cherty ip, tite

LM; It brn, oolitic, med size molds, gd oomoldic por, brittle ip, dull yel min fluor, ns.

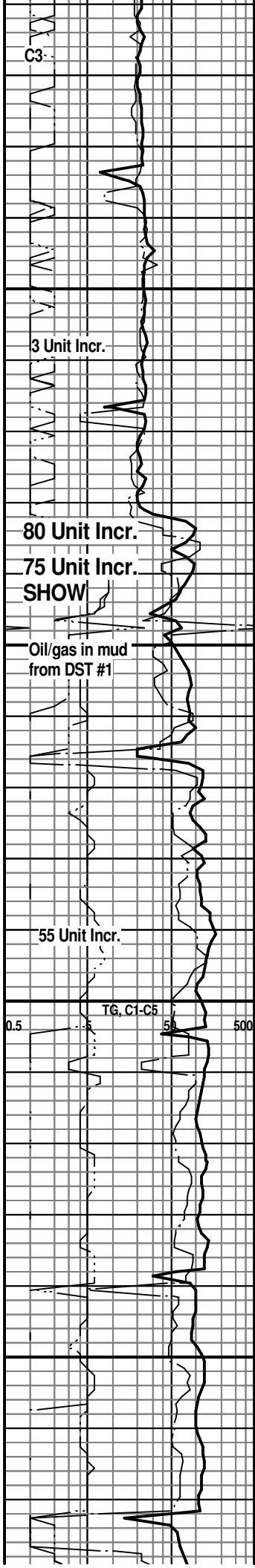
LM; tan to off wh, cream, fxln w/some sucrosic text, poor to fair interxln por, scat wh cht, no fluor, no stn or odor, ns.

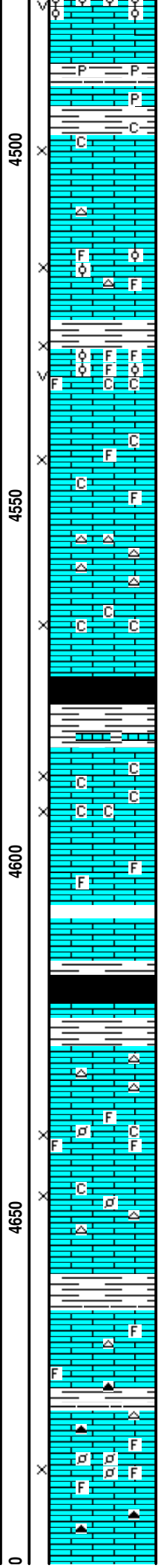
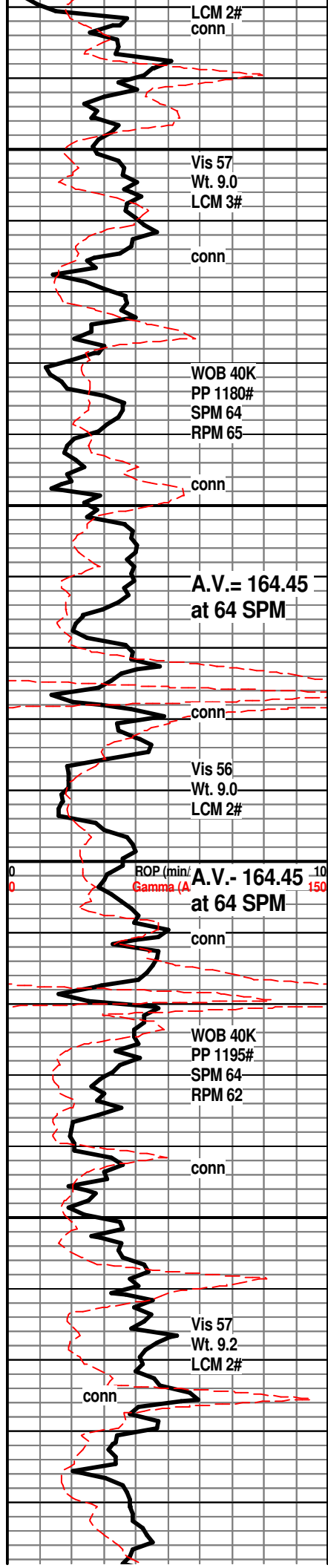
LM; tan, sucrosic, dolomitic, some gd vug por, bcm cherty w/wh and tan cht, minor chalky soft mtx, scat lt yel min fluor, ns.

LM; tan to cream, fxln, tite, scat off wh cht

SH; med gy, gy grn, platy, rare foss mat.

LANS/KC 'H' ZONE 4476(-2158)





LM: lt brn, oolitic, well dev. oomoldic por, some gd vug por also, dull yel min fluor, no stn or odor, ns.

SH; med gy, smooth, occ pyr

LM; off wh, cream, buff, fxln, chalky mtx ip, soft, fair interxln por, dull yel fluor, no stn or odor, ns.

LM; tan to lt brn, foss - oolitic ip, soft mtx, fair interpart por, scat oolitic cht, no fluor, ns.

K.C. 'I' ZONE 4528(-2210)
 LM: lt to med brn. dense. micritic. rare brn cht. tite
 LM; off wh, tan, foss - finely oolitic ip w/scat foss hash, fair to gd interpart/vug por, minor chalky mtx, dull yel min fluor, no stn or odor, ns.

LM; tan to cream, f to occ med xln, minor chalky mtx, poor interxln por, rare foss mat, dull yel min fluor, ns.

LM; lt to med brn, cherty, hd, blocky

LM; tan to buff, f to occ med xln, chalky - soft, poor interxln por, no fluor, ns.

SH; blk, carb ip, blocky

K.C. 'J' ZONE 4584(-2266)
 LM; wh, off wh, buff, fxln, v. soft, gd interxln por, much chalky mtx, dull yel min fluor, no stn or odor, ns.

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

LM; med to dk brn, hd, blocky

STARK SHALE 4617(-2299)
 SH; blk, carb ip, platy to blocky

SWOPE 4626(-2308)
 LM; tan to cream, most dense - blocky, scat off wh to gy cht, no vis por, ns.

LM; off wh, buff, foss w/scat small pellets, chalky mtx ip, fair interpart por, dull yel min fluor only, ns.

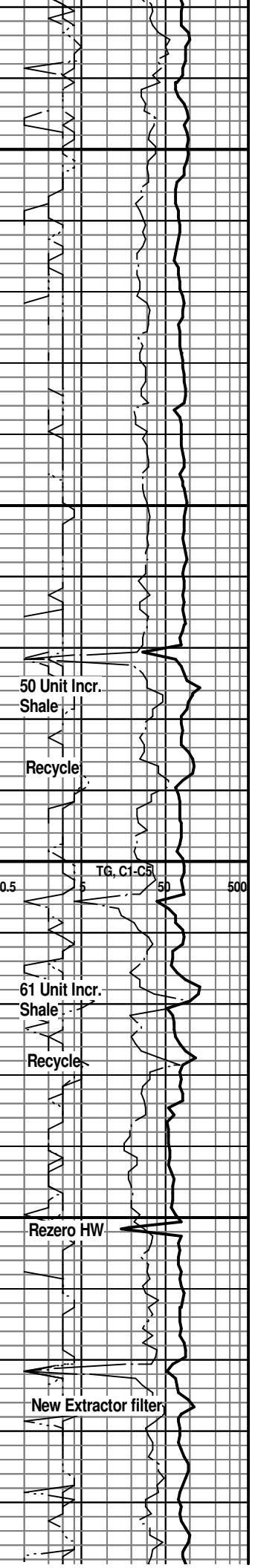
SH; dk gy, platy, smooth

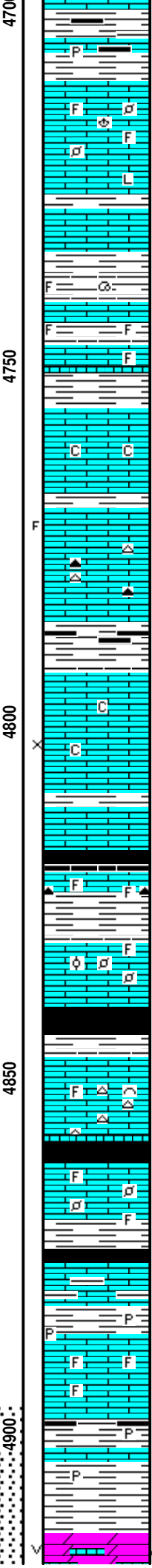
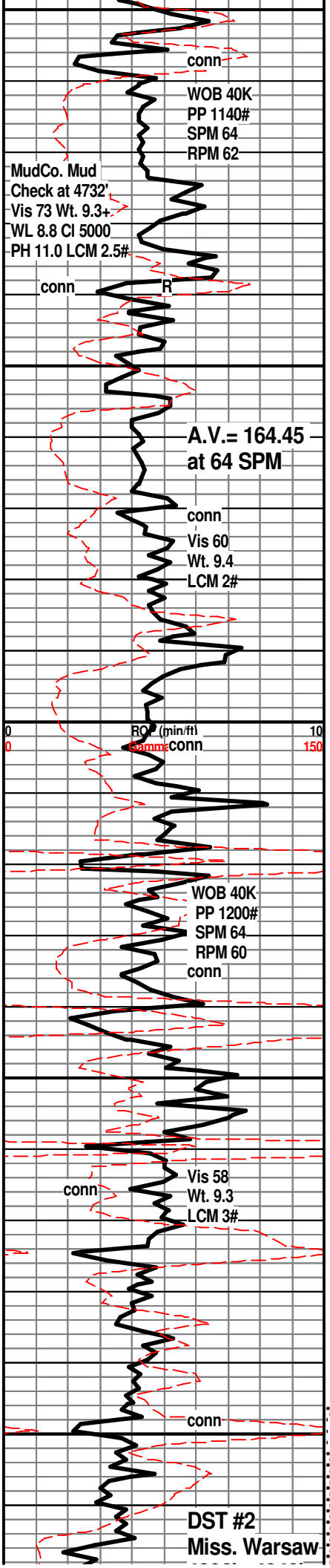
HERTHA 4663(-2345)
 LM; tan to cream, buff, most dense - micritic, blocky, no vis por, ns., interbdd foss and cherty tite lmst.

LM; lt to med brn, highly foss w/abnt small pellets and foss hash, poor vis interpart por, dull yel to no fluor, no stn or odor, ns.

LM; med brn, scat dk gy/blk cht, tite

BASE K.C. 4700(-2382)





SH; lt to med gy, gy grn, platy, trc dk gy sh, interbdd shaly lmst, rare pyr

PLEASANTON 4710(-2392)
LM; tan to lt brn, foss ip, scat small pellets and foss hash, well cem, rare gy foss cht, no vis por, no fluor, ns.
LM; tan to buff, litho, hd, blocky
LM; lt gy, dense - micritic, blocky
SH; grn, gy grn, trc dk gy-blk, foss ip.

MARMATON 4741(-2423)
LM; lt to med brn, most dense, rare foss mat, interbdd grn foss sh, also hd grn lmst, no vis por, lt yel min fluor, no stn or odor, ns.

ALTAMONT 4756(-2438)
LM; tan to buff, lt brn, dense - micritic, blocky, no vis por, dull yel min fluor, minor amt of chalky mtx, ns.
LM; tan to cream, buff, fxl ip, scat spar calc on rare frags, most dense, no stn or odor, dull yel min fluor, occ gy to brn/amber cht, ns.

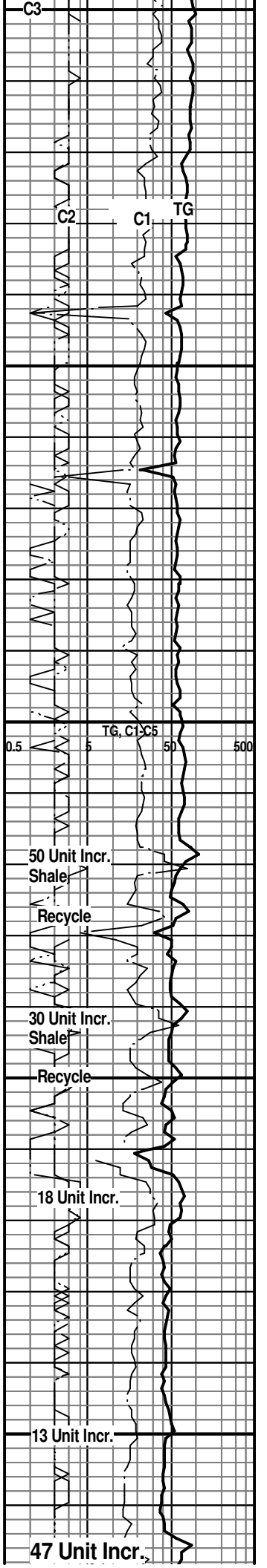
SH; med to dk gy, blk, platy

PAWNEE 4793(-2475)
LM; tan to off wh, buff, fxl to micritic, trc poor interxln por w/occ spar calc xtals, minor chalky mtx, lt yel min fluor, no stn or odor, cherty ip, ns.
LM; med brn, hd, blocky, trc brn cht
SH; blk, carb, gassy ip.
LM; med brn, foss ip, well cem, brn/smoky cht
LM; tan to med brn, foss ip, rare small pellets/ooids, well cem, dull yel min fluor, ns.

CHEROKEE SHALE 4840(-2522)
SH; blk, carb, soft to fiss, trc gas
LM; med brn, v. hd, blocky, well cem foss mat, cherty ip, no vis por, no fluor, ns.
SH; blk, fiss, smooth
LM; med brn, med xln w/scat small pellets/foss hash, well cem, trc. blk tar/gils, no odor, dull yel fluor, looks tite
LM; med brn to gy brn, argil ip, interbdd shaly lmst, tite
SH; med gy, gy grn, pyr ip, platy
LM; lt brn, foss ip, much dense - micritic, no vis por, no fluor, ns.

BASE CHER. LMST. 4898(-2580)
SH; med gy grn, platy, occ pyr, interbdd thin tite shaly lmst

MISS. WARSAW 4914(-2596)
DOL; tan to lt brn, med-cse rhombic, fairly well dev. p-p



4896' - 4940'

Corrected

conn

CFS. at 4940'

MudCo. Mud
Check at 4942'

Vis 55 Wt. 9.0 WL
9.6 Cl 6000
PH 11.0 LCM 3#

conn

WOB 40K
PP 1200#
SPM 64
RPM 62

conn

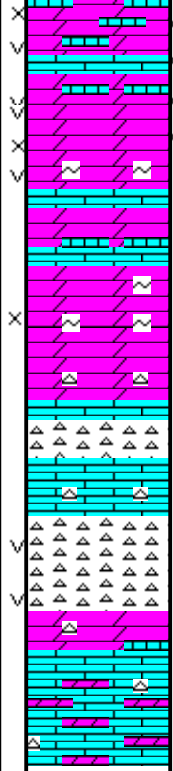
CFS. at RTD.

ROP (min/ft)
Gamma (API)

4950

5000

5050



and vug por, spotted to even lt brn oil stn, uniform med to brite yel fluor, gd odor, SFO, gd cut, few gas bubbles, interbdd lmy dolo

DOL; lt brn, sucrosic to finely rhombic, some lmy - tite(bleeding oil), fair to gd interxln/vug por, uniform med to brite yel fluor, SFO, gd odor, gd streaming cut, few gas bubbles, glau at base of zone, even lt golden brn oil stn, barren por ip.

DST #2: Miss. Warsaw 4896' - 4940'

Corrected Depths to Log

DOL; off wh, tan, sucrosic, scat grn glau, poor to fair interxln por, trc wh cht, dull yel fluor, no vis stn, no odor, ns.

LM; off wh, tan, most dense, interbdd wh to gy mottled cht, no vis por, no stn or odor, ns.

CHT; wh, off wh, most fresh - blocky, occ vug por, no stn or odor, no fluor, ns.

DOL; lt brn, lmy ip, scat off wh cht interbdd, tite

LM; lt brn, dolomitic, hd, rare off wh foss cht, no vis por, no fluor, ns.

RTD. 5000' at 1:55 AM. on 6/3/21

LTD. 4999'

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

NOTE: Portions of this log were shifted upward by 2' to 4' for correlation with the ELI Logs.

SHOW

65 Unit Incr.
SHOW

Oil/Gas in mud after DST #2

TG, C1-C5
0.5 5 50 500



Company: Herman L. Loeb, LLC

Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
County: KIOWA
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 4
Elevation: 2307 GL
Field Name: Fralick West Ext
Pool: WILDCAT
Job Number: 484
API #: 15-097-21857

Operation:
Test Complete

DATE
May
30
2021

DST #1 **Formation: LKC "B"** **Test Interval: 4333 - 4350'** **Total Depth: 4350'**
Time On: 21:14 05/30 Time Off: 09:10 05/31
Time On Bottom: 00:02 05/31 Time Off Bottom: 02:47 05/31

Electronic Volume Estimate:
N/A

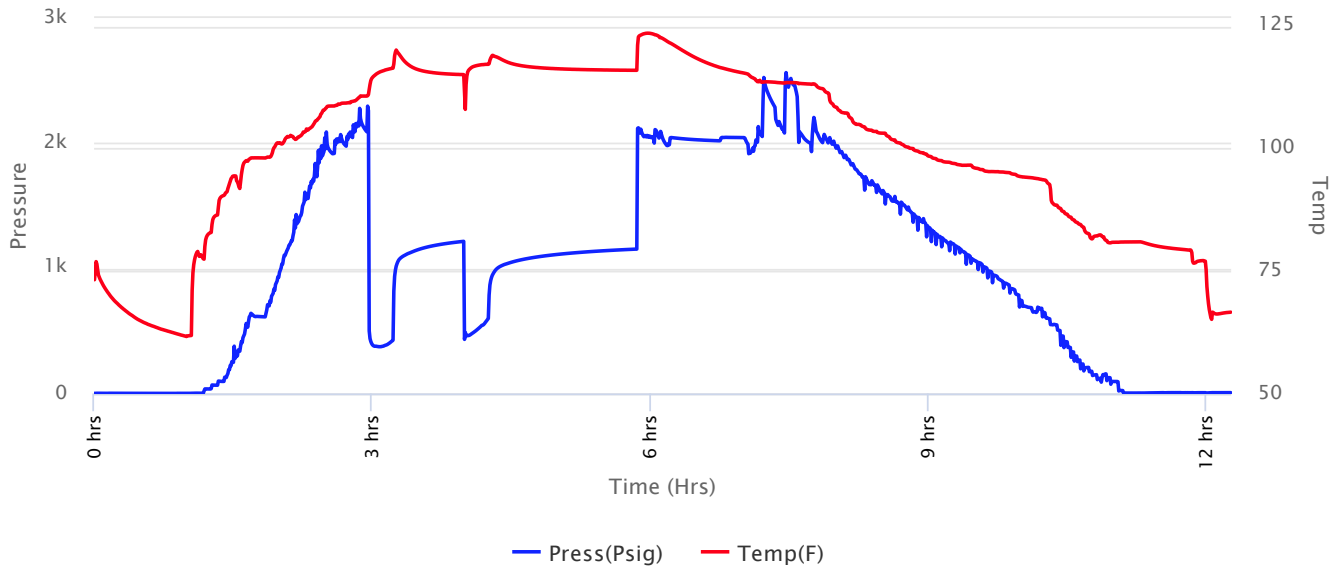
1st Open
Minutes: 5
Current Reading:
Guaging gas" at 5 min
Max Reading: Guaging gas"

1st Close
Minutes: 45
Current Reading:
182" at 45 min
Max Reading: 182"

2nd Open
Minutes: 5
Current Reading:
gauging gas " at 5 min
Max Reading: gauging gas "

2nd Close
Minutes: 5
Current Reading:
oil to surface" at 5 min
Max Reading: oil to surface"

Inside Recorder





Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
 County: KIOWA
 State: Kansas
 Drilling Contractor: Sterling Drilling
 Company - Rig 4
 Elevation: 2307 GL
 Field Name: Fralick West Ext
 Pool: WILDCAT
 Job Number: 484
 API #: 15-097-21857

Operation:
 Test Complete

DATE
 May
30
 2021

DST #1 **Formation: LKC "B"** **Test Interval: 4333 - 4350'** **Total Depth: 4350'**
 Time On: 21:14 05/30 Time Off: 09:10 05/31
 Time On Bottom: 00:02 05/31 Time Off Bottom: 02:47 05/31

Recovered

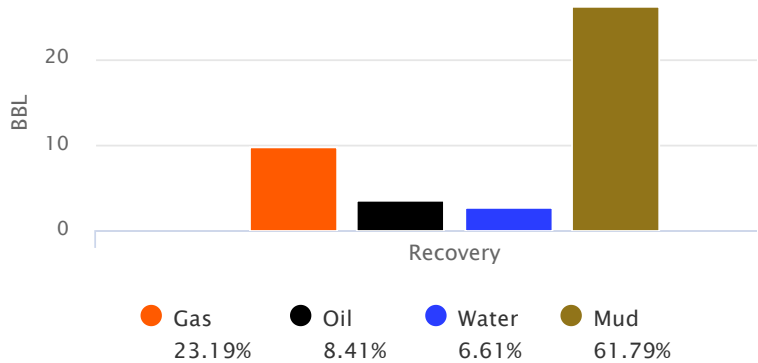
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
693	7.110873	G	100	0	0	0
378	3.878658	SLGCO	10	90	0	0
632	6.484952	SLOCMCHGCW	35	1	39	25
2457	24.45573557	M	0	0	0	100
60	0.3288	SLGCSLMCW	10	0	80	10

Total Recovered: 4220 ft
 Total Barrels Recovered:
 42.25901857

Reversed Out
 YES

Initial Hydrostatic Pressure	2153	PSI
Initial Flow	439 to 389	PSI
Initial Closed in Pressure	1216	PSI
Final Flow Pressure	463 to 557	PSI
Final Closed in Pressure	1152	PSI
Final Hydrostatic Pressure	2142	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	5.2	%

Recovery at a glance



GIP cubic foot volume: 55.02969



Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
County: KIOWA
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 4
Elevation: 2307 GL
Field Name: Fralick West Ext
Pool: WILDCAT
Job Number: 484
API #: 15-097-21857

Operation:
Test Complete

DATE
May
30
2021

DST #1 Formation: LKC "B" Test Interval: 4333 - Total Depth: 4350'
4350'
Time On: 21:14 05/30 Time Off: 09:10 05/31
Time On Bottom: 00:02 05/31 Time Off Bottom: 02:47 05/31

BUCKET MEASUREMENT:

1st Open: BoB right away.
1st Close: Took 8 min to blow off return.. BoB in 30 sec.
2nd Open: Bob right away. Oil mist surface in 12 min.
2nd Close: Oil mist at surface.

REMARKS:

Gravity: 38 @ 60 °F

Ph: 7

Chlorides: 122000 ppm



Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
 County: KIOWA
 State: Kansas
 Drilling Contractor: Sterling Drilling
 Company - Rig 4
 Elevation: 2307 GL
 Field Name: Fralick West Ext
 Pool: WILDCAT
 Job Number: 484
 API #: 15-097-21857

Operation:
 Test Complete

DATE
 May
30
 2021

DST #1 **Formation: LKC "B"** **Test Interval: 4333 - 4350'** **Total Depth: 4350'**
 Time On: 21:14 05/30 Time Off: 09:10 05/31
 Time On Bottom: 00:02 05/31 Time Off Bottom: 02:47 05/31

Down Hole Makeup

Heads Up: 24.29 FT	Packer 1: 4328 FT
Drill Pipe: 4111.52 FT <i>ID-3 1/4</i>	Packer 2: 4333 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4317.42 FT
Collars: 218.03 FT <i>ID-2 3/8</i>	Bottom Recorder: 4348 FT
Test Tool: 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 17	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 13 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
 County: KIOWA
 State: Kansas
 Drilling Contractor: Sterling Drilling
 Company - Rig 4
 Elevation: 2307 GL
 Field Name: Fralick West Ext
 Pool: WILDCAT
 Job Number: 484
 API #: 15-097-21857

Operation:
 Test Complete

DATE
 May
30
 2021

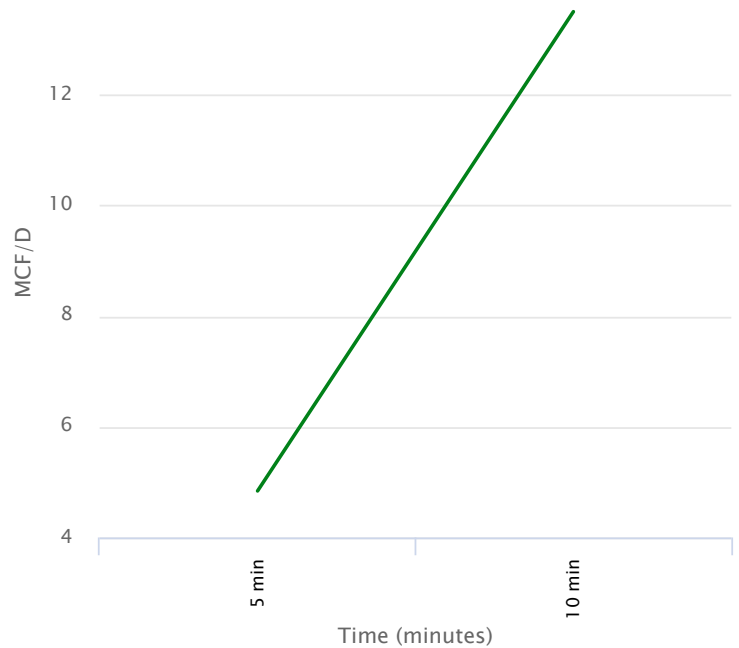
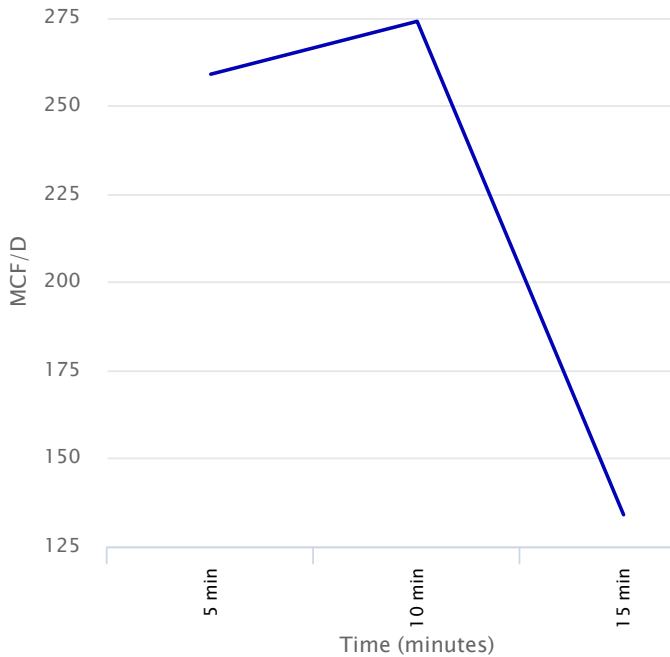
DST #1 Formation: LKC "B" Test Interval: 4333 - 4350' Total Depth: 4350'
 Time On: 21:14 05/30 Time Off: 09:10 05/31
 Time On Bottom: 00:02 05/31 Time Off Bottom: 02:47 05/31

Gas Volume Report

Remarks: Gas to surface in 3 min. took gas sample 10 min. into final flow.

1st Open			
Time	Orifice	PSI	MCF/D
5	0.75	10	259
10	0.75	11	274
15	0.50	13	134

2nd Open			
Time	Orifice	PSI	MCF/D
5	0.125	3.0	4.84
10	0.125	18	13.5





Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
 County: KIOWA
 State: Kansas
 Drilling Contractor: Sterling Drilling
 Company - Rig 4
 Elevation: 2307 GL
 Field Name: Fralick West Ext
 Pool: WILDCAT
 Job Number: 484
 API #: 15-097-21857

Operation:
 Uploading recovery &
 pressures

DATE
 June
02
 2021

DST #2 **Formation: Miss.** **Test Interval: 4898 - 4942'** **Total Depth: 4942'**
 Time On: 09:55 06/02 Time Off: 20:27 06/02
 Time On Bottom: 12:23 06/02 Time Off Bottom: 16:23 06/02

Electronic Volume
 Estimate:
 3853'

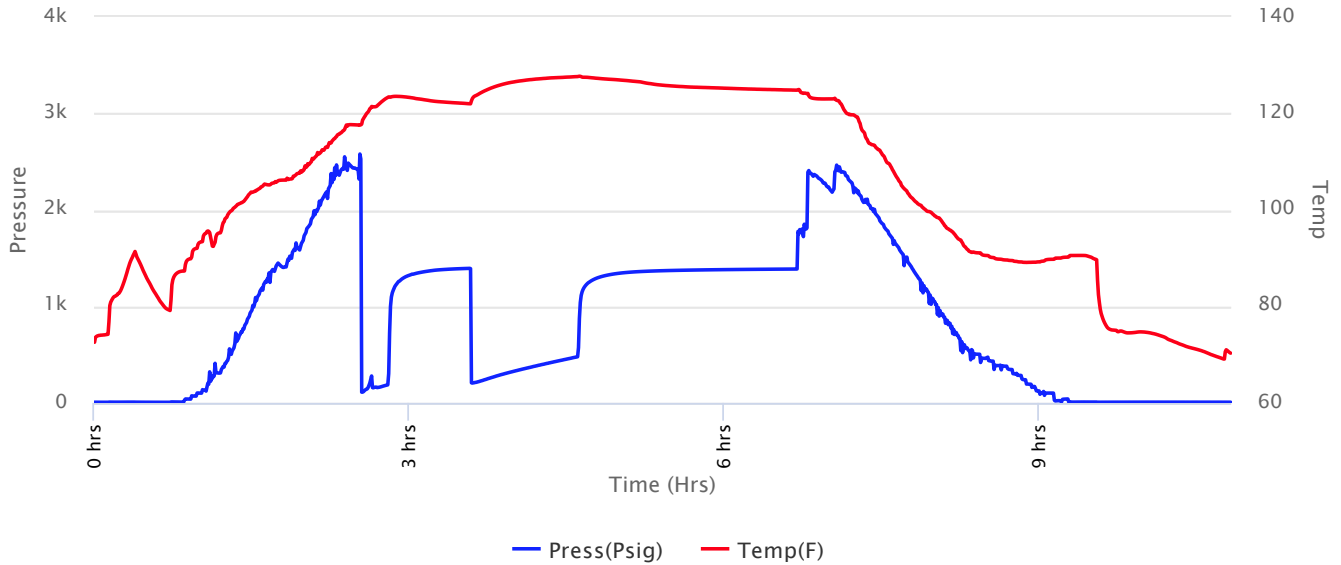
1st Open
 Minutes: 15
 Current Reading:
 71" at 15 min
 Max Reading: 71"

1st Close
 Minutes: 45
 Current Reading:
 3" at 45 min
 Max Reading: 3"

2nd Open
 Minutes: 60
 Current Reading:
 211" at 60 min
 Max Reading: 211"

2nd Close
 Minutes: 120
 Current Reading:
 140.3" at 120 min
 Max Reading: 140.3"

Inside Recorder





Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
 County: KIOWA
 State: Kansas
 Drilling Contractor: Sterling Drilling
 Company - Rig 4
 Elevation: 2307 GL
 Field Name: Fralick West Ext
 Pool: WILDCAT
 Job Number: 484
 API #: 15-097-21857

Operation:
 Uploading recovery &
 pressures

DATE
 June
02
 2021

DST #2 **Formation: Miss.** **Test Interval: 4898 - 4942'** **Total Depth: 4942'**
 Time On: 09:55 06/02 Time Off: 20:27 06/02
 Time On Bottom: 12:23 06/02 Time Off Bottom: 16:23 06/02

Recovered

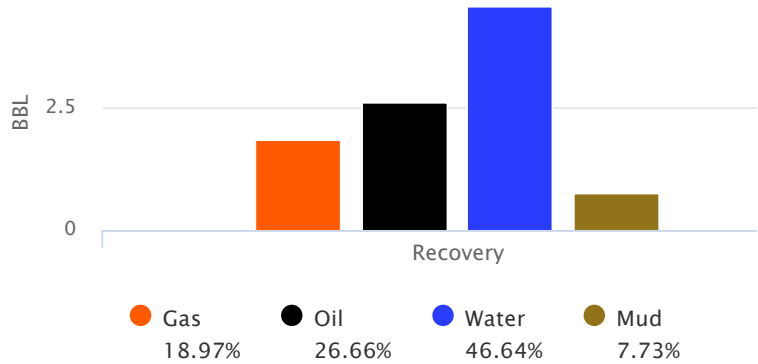
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
113	1.159493	GCO	20	80	0	0
126	1.292886	SLWCHMCHOEG	30	30	10	30
126	1.292886	SLMCSLWCHGCO	30	40	17	13
126	1.292886	SLMCSLGCWCO	19	50	25	6
126	1.292886	SLMCSLOCGCW	20	10	65	5
252	2.43741757	SLMCSLGCW (trace O)	10	.1	87.9	2
187	1.02476	SLMCSLGCW	10	0	89	1

Total Recovered: 1056 ft
 Total Barrels Recovered: 9.79321457

Reversed Out
 NO

Initial Hydrostatic Pressure	2319	PSI
Initial Flow	112 to 185	PSI
Initial Closed in Pressure	1394	PSI
Final Flow Pressure	208 to 476	PSI
Final Closed in Pressure	1387	PSI
Final Hydrostatic Pressure	2323	PSI
Temperature	128	°F
Pressure Change Initial Close / Final Close	0.5	%

Recovery at a glance



GIP cubic foot volume: 10.43215



Company: Herman L. Loeb, LLC
Lease: Nina #1-10

SEC: 10 TWN: 28S RNG: 20W
County: KIOWA
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 4
Elevation: 2307 GL
Field Name: Fralick West Ext
Pool: WILDCAT
Job Number: 484
API #: 15-097-21857

Operation:
Uploading recovery &
pressures

DATE
June
02
2021

DST #2 **Formation: Miss.** **Test Interval: 4898 - 4942'** **Total Depth: 4942'**
Time On: 09:55 06/02 Time Off: 20:27 06/02
Time On Bottom: 12:23 06/02 Time Off Bottom: 16:23 06/02

Gas Volume Report

Remarks: Gas to surface during FSI

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



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: 5/27/2021
Invoice #: 0353169
Lease Name: Nina
Well #: 1-10 (New)
County: Kiowa, Ks
Job Number: WP1429
District: Pratt

11216 → 6420 → Nina

Date/Description	HRS/QTY	Rate	Total
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	453.000	0.660	298.98
Cello Flake	44.000	1.540	67.76
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	45.000	1.760	79.20
Heavy Eq Mileage	45.000	3.520	158.40
Ton Mileage	711.000	1.320	938.52
Cement Pump Service	1.000	660.000	660.00
Cement Plug Container	1.000	220.000	220.00

PAID
102130
JUN 14 2021
SCANNED

Total 8,472.86

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.

WE APPRECIATE YOUR BUSINESS!



Customer	Herman Loeb LLC	Lease & Well #	Nina 1-10	Date	5/27/2021
Service District	Pratt Kansas	County & State	Kiowa Kansas	Legals S/T/R	10 28s 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
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
916	M Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176/532	G McIamore	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
181/521	K lesaly	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" 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 checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

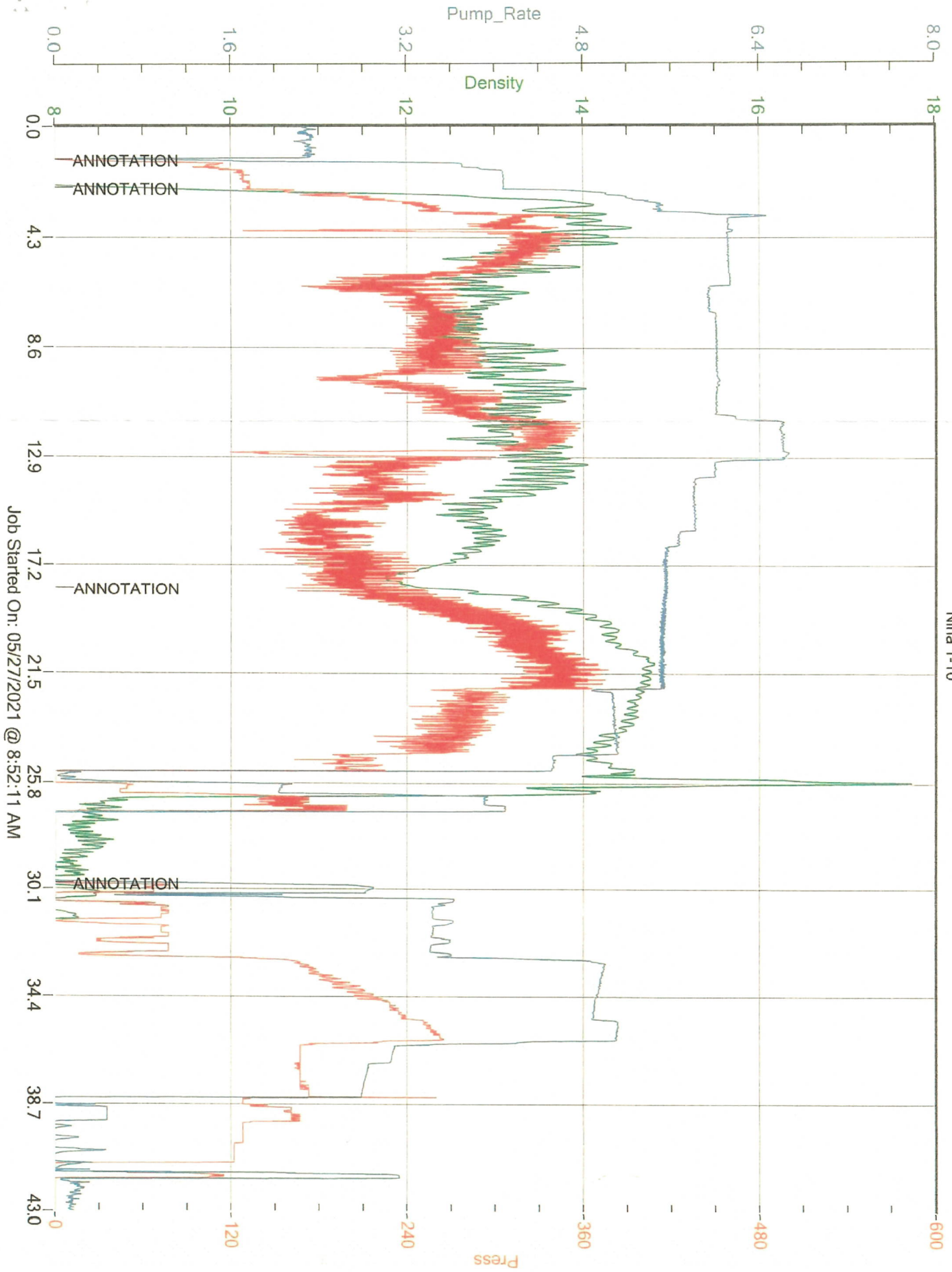
Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
cp025	H-Con	sack	175.00	\$3,234.00
cp070	60/40/2 Pozmix	sack	175.00	\$2,002.00
cp100	Calcium Chloride	lb	453.00	\$298.98
cp120	Cello-flake	lb	44.00	\$67.76
fe260	8 5/8" Guide Shoe	ea	1.00	\$528.00
fe280	8 5/8" Baffle	ea	1.00	\$132.00
fe285	8 5/8" Rubber Plug	ea	1.00	\$154.00
m015	Light Equipment Mileage	mi	45.00	\$79.20
m010	Heavy Equipment Mileage	mi	45.00	\$158.40
m020	Ton Mileage	tm	711.00	\$938.52
c010	Cement Pump Service	ea	1.00	\$660.00
c050	Cement Plug Container	job	1.00	\$220.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$8,472.86
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<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		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:	\$ 8,472.86
HSI Representative:			

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.

X  CUSTOMER AUTHORIZATION SIGNATURE

Hermion Loeb LLC
Nina 1-10



6/14

✓ *J*



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

PAID

102231

JUN 22 2021

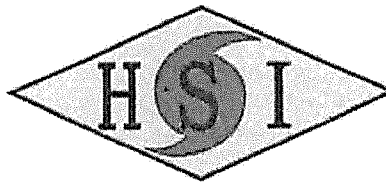
SCANNED

Invoice Date: 6/3/2021
Invoice #: 0353315
Lease Name: Nina
Well #: 1-10 (New)
County: Kiowa, Ks
Job Number: WP1447
District: Pratt

11216 → 6420 → Nina

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Cement Pozmix 50/50	225.000	10.560	2,376.00
H-Plug	50.000	11.440	572.00
GYP Seal	945.000	0.880	831.60
KOL Seal	1,350.000	0.660	891.00
Cello Flake	57.000	1.540	87.78
Cement Fluid Loss 2	95.000	13.200	1,254.00
Defoamer Powder C-41P	95.000	3.520	334.40
Potassium Chloride Powder	509.000	1.320	671.88
5 1/2" Floatshoe-Flapper AFU	1.000	330.000	330.00
5 1/2" LD Plug & Baffle	1.000	308.000	308.00
Reciprocating scratcher 5 1/2"	5.000	68.376	341.88
5 1/2" Turbolizers	12.000	70.400	844.80
Cement baskets 5 1/2"	2.000	264.000	528.00
Mud flush	1,000.000	0.880	880.00
Liquid KCL Substitute 2	5.000	17.600	88.00
Light Eq Mileage	45.000	1.760	79.20
Ton Mileage	520.000	1.320	686.40
Heavy Eq Mileage	45.000	3.520	158.40
Cement Pump Service	1.000	1,320.000	1,320.00
Cement Plug Container	1.000	220.000	220.00

Continued



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: 6/3/2021
 Invoice #: 0353315
 Lease Name: Nina
 Well #: 1-10 (New)
 County: Kiowa, Ks
 Job Number: WP1447
 District: Pratt

Date/Description	HRS/QTY	Rate	Total
Cement Data Acquisition	1.000	220.000	220.00

Total 13,023.34

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.

WE APPRECIATE YOUR BUSINESS!




Customer	Horman Loeb LLC	Lease & Well #	Nina 1-10	Date	6/3/2021
Service District	Pratt Kansas	County & State	Nowa Kansas	Legale S/T/R	10-28a-20w
Job Type	Longstring	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Ticket # wp1447			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
918	M Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176/521	G McLamore	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
102/533	J Travino	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" 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 checked="" type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
ep055	50/50/2 Pozmix	sack	225.00	\$2,378.00
ep055	H-Plug	sack	50.00	\$572.00
ep106	Gypsum	lb	915.00	\$831.60
ep110	Kol Seal	lb	1,350.00	\$891.00
ep120	Cello-flake	lb	57.00	\$87.78
ep132	Cement Fluid Loss 2	lb	95.00	\$1,254.00
ep135	Defoamer Powder	lb	95.00	\$334.40
ap057	Potassium Chloride Powder	lb	509.00	\$671.88
fe145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$330.00
fe170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$308.00
fe195	5 1/2" Cement Scratchers Resciprocating Type	ea	5.00	\$341.88
fe135	5 1/2" Turbizer	ea	12.00	\$844.80
fe130	5 1/2" Cement Basket	ea	2.00	\$528.00
ep170	Mud Flush	gal	1,600.00	\$880.00
af055	Liquid KCL Substitute 2	gal	5.00	\$88.00
md015	Light Equipment Mileage	mi	45.00	\$79.20
md020	Ton Mileage	lm	520.00	\$688.40
md010	Heavy Equipment Mileage	mi	45.00	\$158.40
ep015	Cement Pump Service	ea	1.00	\$1,320.00
ep020	Cement Plug Container	job	1.00	\$220.00
ep025	Cement Data Acquisition	job	1.00	\$220.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$13,023.34
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 Likely</small>		Tax Rate:	
		Sale Tax:	\$ -
		Total:	\$ 13,023.34
HSI Representative: <i>Mark Brungardt</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 law. 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:	Nina 1-10	Ticket:	wp1447
City, State:	Mullinville Kansas	County:	Kiowa Kansas	Date:	6/3/2021
Field Rep:	George Payne	S-T-R:	10-28s-20w	Service:	Longstring

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	60/40/2	Blend:	H-Plug
Hole Depth:	5006 ft	Weight:	14.0 ppg	Weight:	13.7 ppg
Casing Size:	5 1/2 in	Water / Sx:	5.5 gal / sx	Water / Sx:	6.9 gal / sx
Casing Depth:	5000 ft	Yield:	1.37 ft ³ / sx	Yield:	1.43 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	54.8 bbls	Total Slurry:	12.7 bbls
		Total Sacks:	225 sx	Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
5:00 PM			-	-	on location job and safety
5:30 PM			-	-	spot trucks and rig up
			-	-	
			-	-	centralizers shoe joint.1.2.5.7.10.13.15.16.19.22.25
			-	-	scratchers 2nd joint
			-	-	baskets on joint 7 and 22
6:45 PM			-	-	start casing in the hole
10:10 PM			-	-	casing on bottom and circulate
			-	-	
11:25 PM	4.5	250.0	5.0	5.0	5bbls fresh
	4.5	250.0	24.0	29.0	1000 gal mud flush
	4.5	250.0	5.0		5bbls fresh
11:30 AM					flush in
11:35 PM			12.7		plug rat and mouse 30 sacks rat hole 20 sacks mouse hole
11:45 PM					start cement
12:00 PM	5.0	450.0	54.8		cement in
					wash pump and lines
12:10 PM	6.0	250.0			start displacement
	3.0	100.0	500.0		slow rate
12:45 PM		120.0	900.0		bump plug at 900psi took to 1400psi
					plug did land and hold

CREW		UNIT	SUMMARY		
Cementor:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	G McInara	176/521	4.8 bpm	239 psi	1,502 bbls
Bulk #1:	J Travino	182/533			
Bulk #2:					

