

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	MALCOLM 4-16
Doc ID	1592865

Tops

Name	Top	Datum
ANHYDRITE	1556	+783
STOTLER	3322	-983
HEEBNER	3856	-1517
LANSING	3906	-1567
BASE KANSAS CITY	4244	-1905
PAWNEE	4366	-2027
FORT SCOTT	4432	-2093
CHEROKEE	457	-2118
MISSISSIPPI "U"	4524	-2185
MISSISSIPPI DOLO	4531	-2192



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
24
 2021

DST #1 **Formation: Ft. Scott/Cherokee** **Test Interval: 4418 - 4500'** **Total Depth: 4500'**
 Time On: 19:02 08/24 Time Off: 01:43 08/25
 Time On Bottom: 21:37 08/24 Time Off Bottom: 23:37 08/24

Electronic Volume Estimate:
 0'

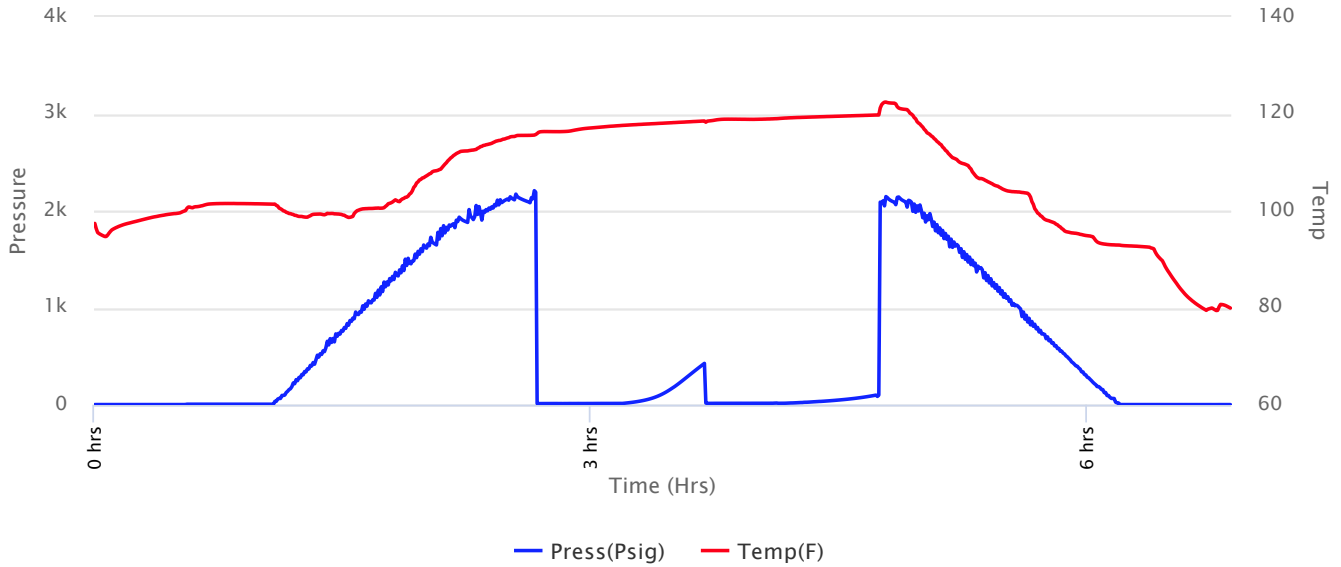
1st Open
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

1st Close
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

2nd Close
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
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DATE
 August
24
 2021

DST #1 **Formation: Ft. Scott/Cherokee** **Test Interval: 4418 - 4500'** **Total Depth: 4500'**
 Time On: 19:02 08/24 Time Off: 01:43 08/25
 Time On Bottom: 21:37 08/24 Time Off Bottom: 23:37 08/24

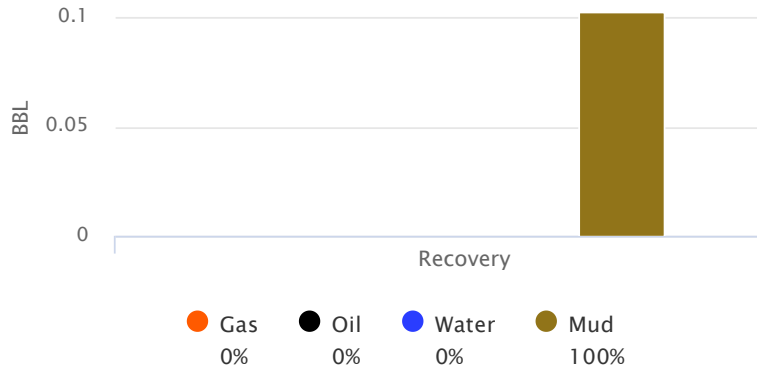
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1026	M	0	0	0	100

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1026

Reversed Out
NO

Initial Hydrostatic Pressure	2124	PSI
Initial Flow	11 to 14	PSI
Initial Closed in Pressure	426	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	99	PSI
Final Hydrostatic Pressure	2103	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	76.9	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2338 EGL
Field Name: Sandpit
Pool: Infield
Job Number: 505
API #: 15-083-21992

Operation:
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pressures

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DST #1 **Formation: Ft. Scott/Cherokee** **Test Interval: 4418 - 4500'** **Total Depth: 4500'**
Time On: 19:02 08/24 Time Off: 01:43 08/25
Time On Bottom: 21:37 08/24 Time Off Bottom: 23:37 08/24

BUCKET MEASUREMENT:

1st Open: Surface blow
1st Close: No BB
2nd Open: No blow
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
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 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
24
 2021

DST #1 **Formation: Ft. Scott/Cherokee** **Test Interval: 4418 - 4500'** **Total Depth: 4500'**
 Time On: 19:02 08/24 Time Off: 01:43 08/25
 Time On Bottom: 21:37 08/24 Time Off Bottom: 23:37 08/24

Down Hole Makeup

Heads Up: 25.36 FT	Packer 1: 4413.01 FT
Drill Pipe: 4410.8 FT <i>ID-3 1/4</i>	Packer 2: 4418.01 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4402.43 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4488 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 81.99	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 62.99 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
Elevation: 2338 EGL
Field Name: Sandpit
Pool: Infield
Job Number: 505
API #: 15-083-21992

Operation:
Uploading recovery & pressures

DATE
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2021

DST #1 **Formation: Ft. Scott/Cherokee** **Test Interval: 4418 - 4500'** **Total Depth: 4500'**
Time On: 19:02 08/24 Time Off: 01:43 08/25
Time On Bottom: 21:37 08/24 Time Off Bottom: 23:37 08/24

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 46 **Filtrate:** 11.2 **Chlorides:** 4,400 ppm



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
24
 2021

DST #1 **Formation: Ft. Scott/Cherokee** **Test Interval: 4418 - 4500'** **Total Depth: 4500'**
 Time On: 19:02 08/24 Time Off: 01:43 08/25
 Time On Bottom: 21:37 08/24 Time Off Bottom: 23:37 08/24

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
25
 2021

DST #2 **Formation: Mississippian** **Test Interval: 4494 - 4544'** **Total Depth: 4544'**
 Time On: 13:29 08/25 Time Off: 22:14 08/25
 Time On Bottom: 16:23 08/25 Time Off Bottom: 19:23 08/25

Electronic Volume Estimate:
 59'

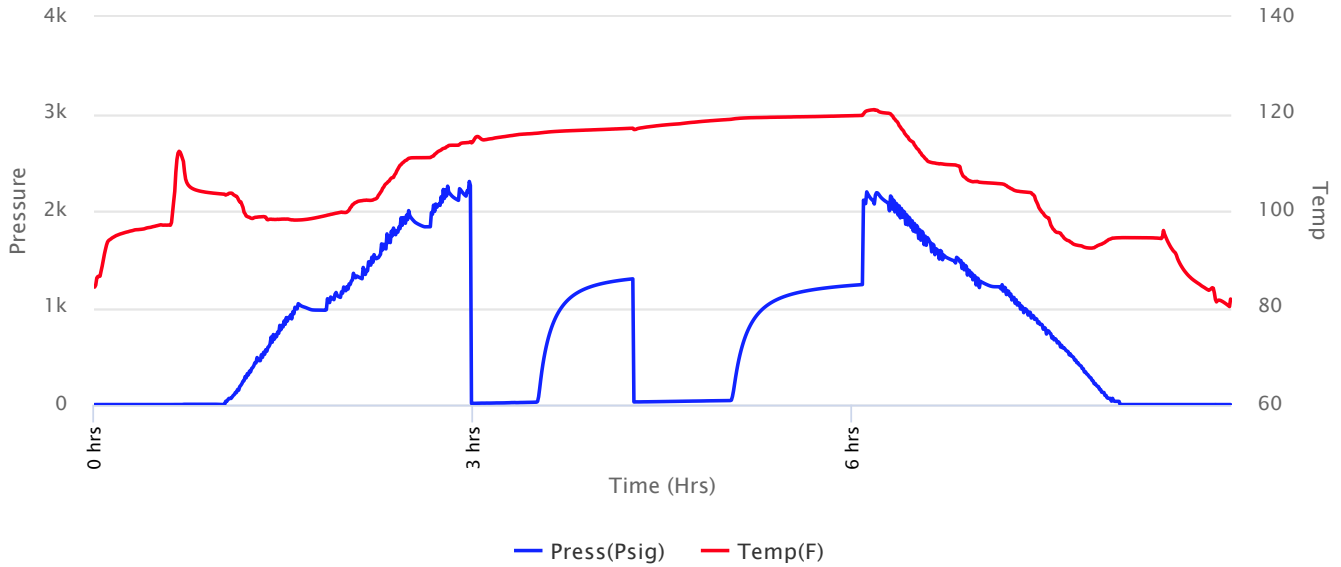
1st Open
 Minutes: 30
 Current Reading: 2.5" at 30 min
 Max Reading: 2.5"

1st Close
 Minutes: 45
 Current Reading: 0" at 45 min
 Max Reading: 0"

2nd Open
 Minutes: 45
 Current Reading: 2.4" at 45 min
 Max Reading: 2.4"

2nd Close
 Minutes: 60
 Current Reading: 0" at 60 min
 Max Reading: 0"

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
25
 2021

DST #2 **Formation: Mississippian** **Test Interval: 4494 - 4544'** **Total Depth: 4544'**
 Time On: 13:29 08/25 Time Off: 22:14 08/25
 Time On Bottom: 16:23 08/25 Time Off Bottom: 19:23 08/25

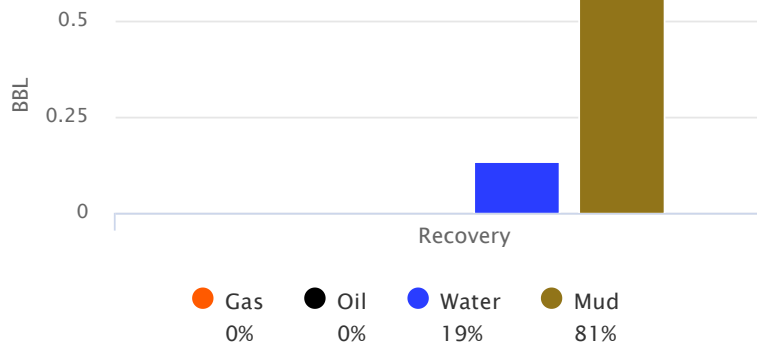
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
70	0.7182	SLWCM	0	0	19	81

Total Recovered: 70 ft
 Total Barrels Recovered: 0.7182

Reversed Out
 NO

Initial Hydrostatic Pressure	2190	PSI
Initial Flow	13 to 26	PSI
Initial Closed in Pressure	1298	PSI
Final Flow Pressure	28 to 43	PSI
Final Closed in Pressure	1239	PSI
Final Hydrostatic Pressure	2173	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	4.6	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2338 EGL
Field Name: Sandpit
Pool: Infield
Job Number: 505
API #: 15-083-21992

Operation:
Uploading recovery &
pressures

DATE
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DST #2 **Formation:** **Test Interval: 4494 -** **Total Depth: 4544'**
Mississippian **4544'**
Time On: 13:29 08/25 Time Off: 22:14 08/25
Time On Bottom: 16:23 08/25 Time Off Bottom: 19:23 08/25

BUCKET MEASUREMENT:

1st Open: Surface blow building to 2 1/4"
1st Close: No BB
2nd Open: Surface blow building to 2"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud
Ph: 8.0
Measured RW: .44 @ 79 degrees °F
RW at Formation Temp: 0.298 @ 120 °F
Chlorides: 9,000 ppm



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
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 2021

DST #2 **Formation: Mississippian** **Test Interval: 4494 - 4544'** **Total Depth: 4544'**
 Time On: 13:29 08/25 Time Off: 22:14 08/25
 Time On Bottom: 16:23 08/25 Time Off Bottom: 19:23 08/25

Down Hole Makeup

Heads Up: 12.72 FT	Packer 1: 4488.73 FT
Drill Pipe: 4473.88 FT <i>ID-3 1/4</i>	Packer 2: 4493.73 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4478.15 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4532 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 50.27	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.27 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2338 EGL
Field Name: Sandpit
Pool: Infield
Job Number: 505
API #: 15-083-21992

Operation:
Uploading recovery &
pressures

DATE
August
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2021

DST #2 **Formation:** **Test Interval: 4494 -** **Total Depth: 4544'**
Mississippian **4544'**
Time On: 13:29 08/25 Time Off: 22:14 08/25
Time On Bottom: 16:23 08/25 Time Off Bottom: 19:23 08/25

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 45 **Filtrate:** 13.6 **Chlorides:** 6,700 ppm



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
25
 2021

DST #2 **Formation: Mississippian** **Test Interval: 4494 - 4544'** **Total Depth: 4544'**
 Time On: 13:29 08/25 Time Off: 22:14 08/25
 Time On Bottom: 16:23 08/25 Time Off Bottom: 19:23 08/25

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
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 2021

DST #3 **Formation: Mississippian** **Test Interval: 4542 - 4554'** **Total Depth: 4554'**
 Time On: 14:08 08/26 Time Off: 22:23 08/26
 Time On Bottom: 17:00 08/26 Time Off Bottom: 20:00 08/26

Electronic Volume Estimate:
 85'

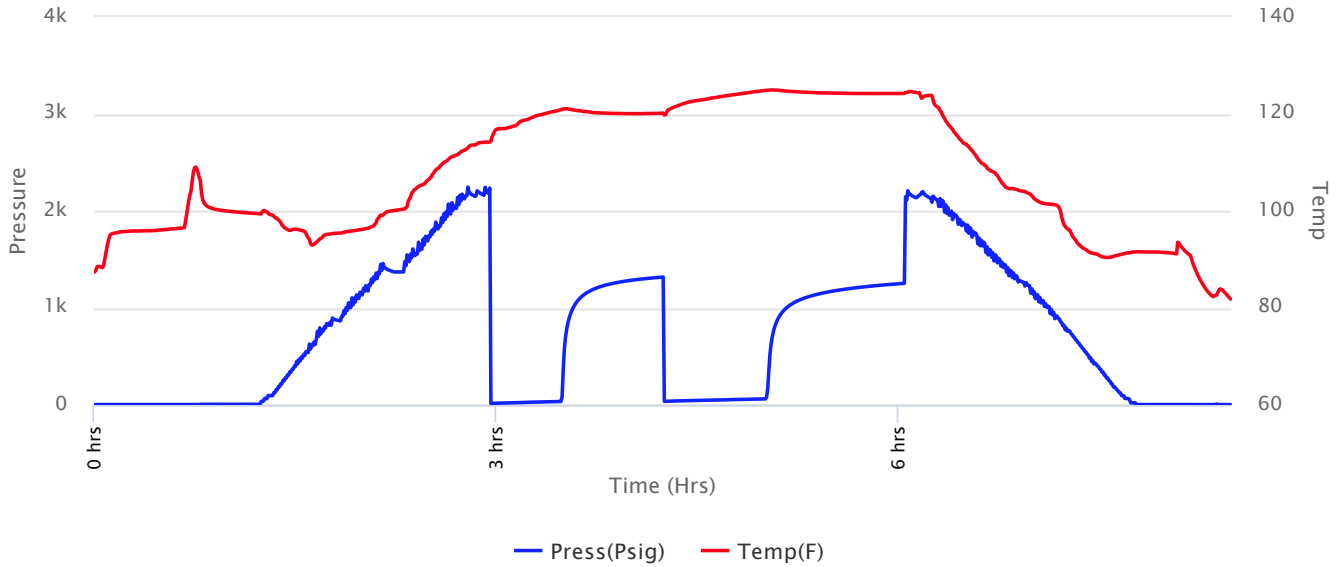
1st Open
 Minutes: 30
 Current Reading: 4.0" at 30 min
 Max Reading: 4.0"

1st Close
 Minutes: 45
 Current Reading: 0" at 45 min
 Max Reading: 0"

2nd Open
 Minutes: 45
 Current Reading: 3.0" at 45 min
 Max Reading: 3.0"

2nd Close
 Minutes: 60
 Current Reading: 0" at 60 min
 Max Reading: 0"

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
 Uploading recovery & pressures

DATE
 August
26
 2021

DST #3 **Formation: Mississippian** **Test Interval: 4542 - 4554'** **Total Depth: 4554'**
 Time On: 14:08 08/26 Time Off: 22:23 08/26
 Time On Bottom: 17:00 08/26 Time Off Bottom: 20:00 08/26

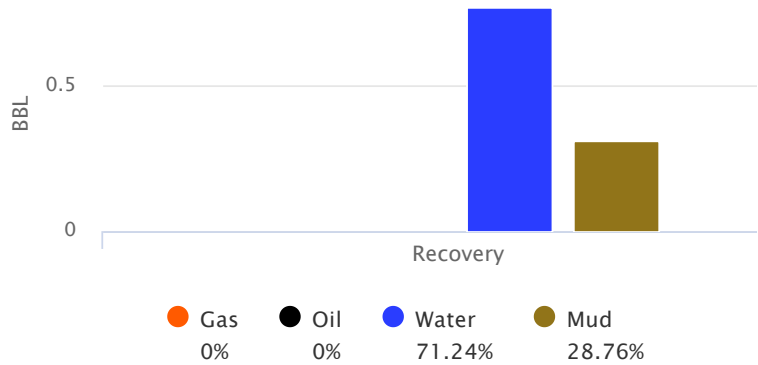
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
40	0.4104	HWCM	0	0	44	56
65	0.6669	SLMCW	0	0	88	12

Total Recovered: 105 ft
 Total Barrels Recovered: 1.0773

Reversed Out
 NO

Initial Hydrostatic Pressure	2179	PSI
Initial Flow	14 to 33	PSI
Initial Closed in Pressure	1317	PSI
Final Flow Pressure	34 to 60	PSI
Final Closed in Pressure	1252	PSI
Final Hydrostatic Pressure	2169	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	4.9	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2338 EGL
Field Name: Sandpit
Pool: Infield
Job Number: 505
API #: 15-083-21992

Operation:
Uploading recovery &
pressures

DATE
August
26
2021

DST #3 **Formation:** **Test Interval: 4542 -** **Total Depth: 4554'**
Mississippian **4554'**
Time On: 14:08 08/26 Time Off: 22:23 08/26
Time On Bottom: 17:00 08/26 Time Off Bottom: 20:00 08/26

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 3 3/4"
1st Close: No BB
2nd Open: Surface blow building to 2 3/4"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 0% Oil 100% Water 0% Mud
Ph: 8.0
Measured RW: .5 @ 76 degrees °F
RW at Formation Temp: 0.314 @ 125 °F
Chlorides: 10,000 ppm



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2338 EGL
 Field Name: Sandpit
 Pool: Infield
 Job Number: 505
 API #: 15-083-21992

Operation:
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DATE
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26
 2021

DST #3 **Formation: Mississippian** **Test Interval: 4542 - 4554'** **Total Depth: 4554'**
 Time On: 14:08 08/26 Time Off: 22:23 08/26
 Time On Bottom: 17:00 08/26 Time Off Bottom: 20:00 08/26

Down Hole Makeup

Heads Up: 27.37 FT	Packer 1: 4537 FT
Drill Pipe: 4536.8 FT <i>ID-3 1/4</i>	Packer 2: 4542 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4526.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4544 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 12	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 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): 11 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
Elevation: 2338 EGL
Field Name: Sandpit
Pool: Infield
Job Number: 505
API #: 15-083-21992

Operation:
Uploading recovery & pressures

DATE
August
26
2021

DST #3 **Formation: Mississippian** **Test Interval: 4542 - 4554'** **Total Depth: 4554'**
Time On: 14:08 08/26 Time Off: 22:23 08/26
Time On Bottom: 17:00 08/26 Time Off Bottom: 20:00 08/26

Mud Properties

Mud Type: Chemical **Weight:** 9.25 **Viscosity:** 43 **Filtrate:** 13.6 **Chlorides:** 8,800 ppm



Company: L. D. Drilling, Inc
Lease: Malcolm #4-16

SEC: 16 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
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Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE 4-16 MALCOLM

FIELD WILDCAT

LOCATION 1028' ENL & 2238' FEL

SEC 16 TWP 21s RGE 23w

COUNTY HODGEMAN STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 8-17-21 COMP 8-27-21

RTD 4662 LTD 4664

MUD UP 3497 TYPE MUD CHEMICAL

ELEVATIONS

KB 2339

DF _____

GL 2334 *

Measurements Are All From 2339 KB

CASING SURFACE 8 5/8" @ 246'

PRODUCTION _____

ELECTRICAL SURVEYS
Dual IND., DENS-N., Micro

SAMPLES SAVED FROM 3700 TO 4662

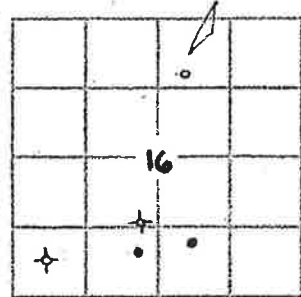
DRILLING TIME KEPT FROM 3300 TO 4662

SAMPLES EXAMINED FROM 3700 TO 4662

GEOLOGICAL SUPERVISION FROM 3900 TO 4662

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1556 + 783	1559 + 780
STOTLER	3322 - 983	3322 - 983
HEEBNER	3856 - 1517	3853 - 1514
LANGING	3986 - 1567	3985 - 1566
B/KC	4244 - 1905	4238 - 1899
PAWNEE	4366 - 2027	4364 - 2025
FORT SCOTT	4432 - 2093	4429 - 2090
CHEROKEE	4457 - 2118	4454 - 2115
MISSISSIPPI 'U'	4524 - 2185	4524 - 2185
Miss. Dolo.	4531 - 2192	4531 - 2192



REMARKS

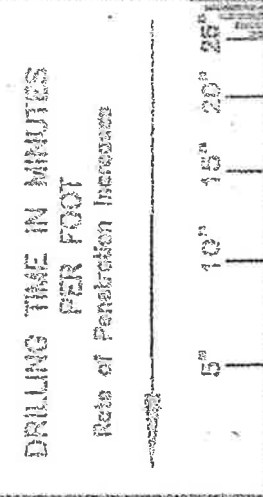
8-17-21 SPUD
8-18 @ 400'
8-19 @ 1770'
8-20 @ 2640'
8-21 @ 3250'
8-22 @ 5180'
8-23 @ 4250'
8-24 @ 4418'
8-25 @ 4520'
8-26 @ 4544'
8-27 @ 4662'

API: 15-083-21992

* Spot surface elevation was 2335.61. Location was lowered 1.5', 2334.61 was used.

LEGEND

- Anhydrite
- Soft
- Sandstone
- Shale
- Dark sh
- Limestone
- Coll. L. lime
- Chert
- Dolomite

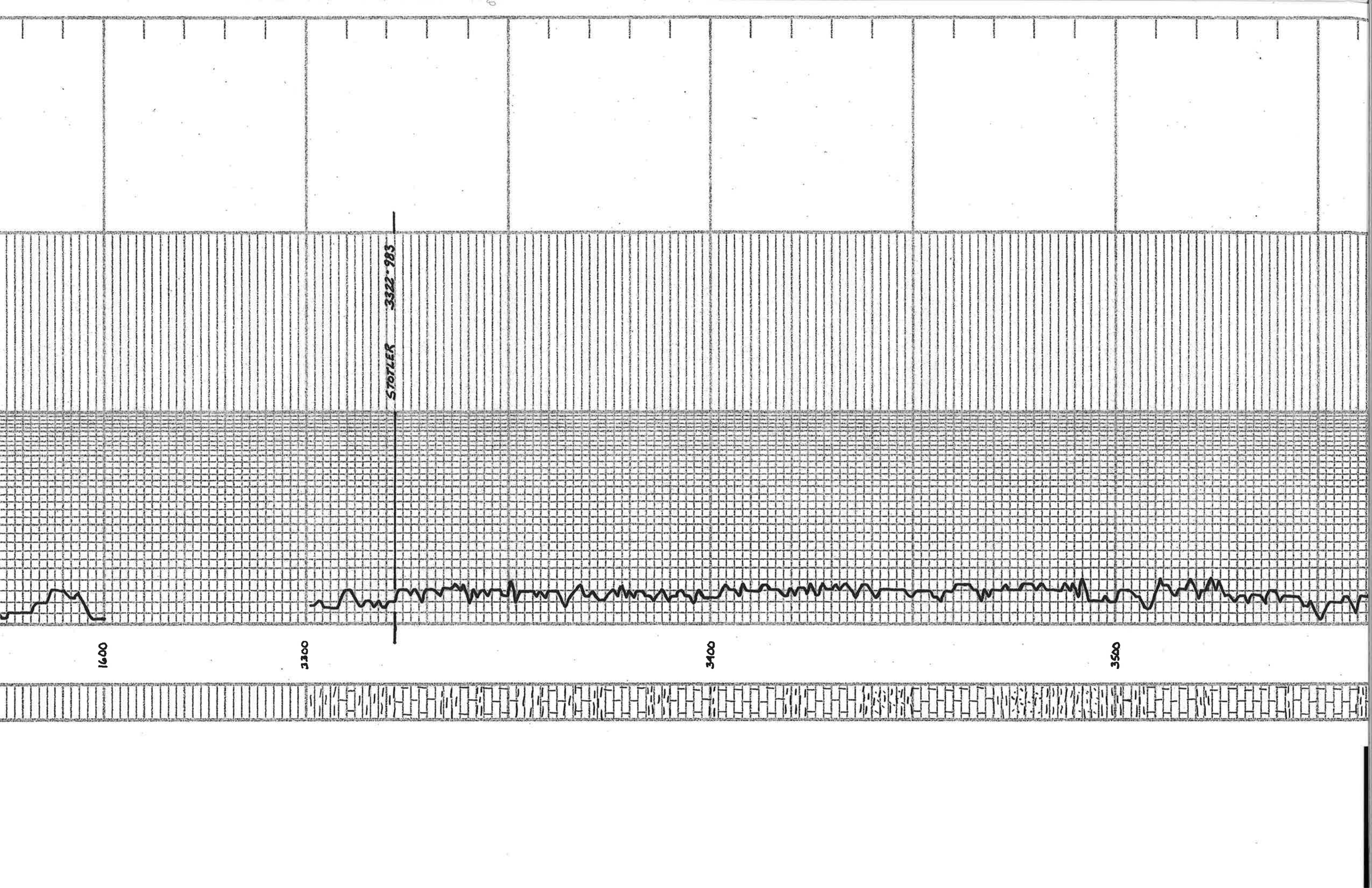


LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 1559+780



STOTLER 3322-983

1600

3100

3400

3500

3600

3700

3800

Samples are Lagged

15. Top 214. Post. vol. Sil. Caliche

Sh. 144.

15. Top vol. Vol. Post. Sil. A

Δ vol. 4.

15. Top vol. Sil. Caliche

15. vol. Post. vol. Caliche

15. 144. Sil. Post. vol. Dry. Post.

15. vol. Sil. Post. Sil. A

15. Top vol. Post. vol. Sil. Caliche

Δ vol.

HEBNER 3855-1514

Sh. 144. 151. Post.

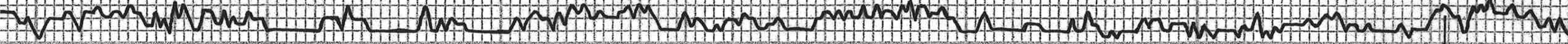
Sh. 144. 151.

Δ vol.

15. vol. Sil. Post. Sil. A

1206

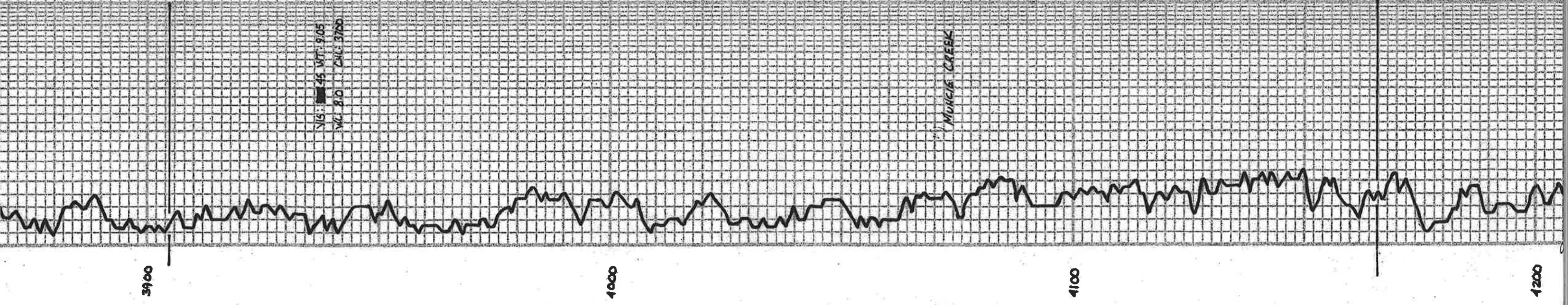
TORONTO



15. wt. Si. Fol. SiA
 15. wt. chly
 Sh. Blue G.
 Sh. Bl. G.
LANSING 3905-1566
 15. wt. Sh. fol. SiA
 Sh. Red. G.
 15. Ta. G. Sh. fol. SiA
 15. wt. Si. Fol. - bl. Sh. Chly.
 15. wt. V. Si. Fol. Chly.
 Sh. Red. G.
 15. wt. V. Si. Fol. 15. Si. Fol.
 Sh. Red. G.
 15. wt. Si. Fol. Calc. SiA
 Sh. G.
 15. wt. G. Fol. - Sw. Si. Dolomite
 A. wt.
 15. wt. Sh. Fol. Chly.
 15. wt. Chly.
 15. Ta. wt. Sh. Fol. SiA
 Sh. Red. G.
 15. wt. V. Si. Fol. SiA
 Sh. G.
 15. wt. V. Si. Fol. SiA
 Sh. G.
 15. wt. V. Si. Fol. SiA
 Sh. G.
 15. wt. V. Si. Fol.
 Sh. G.
 15. wt. V. Si. Fol. SiA
 Sh. G.
 15. wt. V. Si. Fol. SiA
 Sh. G.
STARK 4166-1827
 Sh. G.
 15. wt. G. Sh. Fol. SiA
 Sh. G.
 15. wt. G. Sh. Fol. SiA
 Sh. G.
 15. wt. G. Sh. Fol. SiA
 Sh. G.

N15: 45 WT. 9.05
 N16: 37.0 21.0 37.00

MUSIC CREEK



4200

4300

4400

4500

12006

MIRKINTON

ALTIMONT

SHORT TRIP 4310

WT: 93
CUL: 5300

DST (1)

V206

WT: 91
CUL: 4900

V206

DST (2)

LS. 61g. Sh. Foss. Sil. Chalk
 Sh. DE. Blk.
 LS. Bl. DE. Blk. VSI. Foss.
 LS. 7. 12g. Sil. A.
 LS. 61. 14g. Sil. Foss. - Foss. Sil. Chalk
 Sil. A.
 LS. 11g. Sil. A. Calcitic

B/KC 4238-1899

Sh. G.
 Sh. 41g. VSI. Foss. Sil. Chalk
 LS. 6. 14g. Sil. Foss. Sil. Chalk
 Sh. 41. Blk. Sil.
 LS. 7. 14g. Sil. A. VSI. Foss.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. VSI. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. VSI. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. Sil. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.

PANNEE 4361-2025

Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. Chalk
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.

FORT SCOT 4429-2090

Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A. Calcitic
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.

CHEROKEE 4451-2115

Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.

JOHNSON 4489-2150

Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.

D/JOHNSON 4500-2161

Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.
 Sh. 41g. Sil. A.
 LS. 7. 14g. VSI. Foss. Sil. A.

DST (1) 4418-4500
 1st OPEN: Surface Blow
 2nd OPEN: No Blow
 30' 30" 30' 30"
 Re. 10' Mid
 PP: 11-14 14-16 *
 SIP: 426-99 *



DST (2) 4494-4514
 1st OPEN: Blow built to 2 1/4"
 2nd OPEN: " " " " 2"
 30' 45" 45' 60"
 Rec. 70' WCN
 (18" W 8 1/4")
 PP: 13-26 28-43 *
 SIP: 4298-1237 *
 CIL: 9,000 ppm





HURRICANE SERVICES INC

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

Customer:
L D DRILLING, INC.
7 SW 26TH AVE
GREAT BEND, KS 67530

Invoice Date: 8/27/2021
Invoice #: 0354963
Lease Name: Malcolm
Well #: 4-16
County: Hodgeman, Ks
Job Number: WP1799
District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	280.000	11.700	3,276.00
Wooden plug 8 5/8"	1.000	153.000	153.00
Light Eq Mileage	120.000	1.800	216.00
Heavy Eq Mileage	120.000	3.600	432.00
Ton Mileage	1,579.000	1.350	2,131.65
Depth Charge 1001'-2000'	1.000	1,350.000	1,350.00

Net Invoice	7,558.65
Sales Tax:	444.45
Total	8,003.10

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

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	L.D. Drilling & Exploration	Lease & Well #	Malcolm # 4-16	Date	8/27/2021
Service District	Oakley Ks	County & State	Hodgeman Ks	Legals S/T/R	16-21S-23W
Job Type	PTA	<input checked="checked" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	Job #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
29	Jesse Jones	<input checked="checked" type="checkbox"/> Hard hat	<input checked="checked" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
208	John Polley	<input checked="checked" type="checkbox"/> H2S Monitor	<input checked="checked" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
165/254	Kale Ochs	<input checked="checked" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="checked" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="checked" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="checked" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="checked" type="checkbox"/> Overhead Hazards	<input checked="checked" type="checkbox"/> Muster Point/Medical Locations
		<input checked="checked" type="checkbox"/> Hearing Protection	<input checked="checked" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
CP055	H-Plug	sack	280.00				\$3,276.00
M015	Light Equipment Mileage	mi	120.00				\$216.00
M010	Heavy Equipment Mileage	mi	120.00				\$432.00
M020	Ton Mileage	tm	1,579.00				\$2,131.65
D012	Depth Charge: 1001'-2000'	job	1.00				\$1,350.00
FE290	8 5/8" Wooden Plug	ea	1.00				\$153.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Gross:		Net:		\$7,558.65	
Based on this job, how likely is it you would recommend HSI to a colleague?				Total Taxable	\$ -	Tax Rate:			
<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				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:				\$ 7,558.65	
				HSI Representative: <i>Jesse Jones</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 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT					
Customer:	L.D. Drilling & Exploration	Well:	Malcolm # 4-16	Ticket:	WP-1799
City, State:	Oakley Ks	County:	Hodgeman Ks	Date:	8/27/2021
Field Rep:	Jesse Jones	S-T-R:	16-21S-23W	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7.875 in	Blend:	H-PLUG	Blend:	
Hole Depth:	4665 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.41 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	1590	Depth:	ft
Tool / Packer:		Annular Volume:	64.6 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	70.3 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	280 sx	Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:00p.m.			-	-	Arrival
7:05p.m.				-	Safety Meeting
7:10p.m.				-	Rig Up
10:09p.m.	3.0	150.0	5.0	5.0	5bbl H2O Ahead
10:12p.m.	5.3	200.0	12.5	17.5	Mixed 50 sks of H-PLUG @1590 ft
10:15p.m.	4.5	200.0	18.2	35.7	Displaced with H2O
10:30p.m.				35.7	Pull pipe to 780 ft
12:08a.m.	4.5	250.0	20.8	56.5	Mixed 80 sks of H-PLUG @ 780 ft
12:13a.m.	4.0	200.0	4.0	60.5	Displaced with H2O
12:17a.m.				60.5	Pull pipe to 300 ft
12:43a.m.	5.0	250.0	12.5	73.0	Mixed 50 sks of H-PLUG @ 300 ft
12:46a.m.	2.0	200.0	4.2	77.2	Displaced with H2O
1:49a.m.	3.0	150.0	10.7	87.9	Mixed 55 sks of H-PLUG in the top 40 ft
1:56a.m.	2.0	100.0	11.3	95.4	Mixed 45sks of H-PLUG in Rat hole
2:00a.m.					Plug Down
2:04a.m.					Wash up
2:15a.m.					Rig down
2:25a.m.					Depart location

Crew	UNIT	SUMMARY		
		Average Rate	Average Pressure	Total Fluid
Cementer:	Jesse Jones	29		
Pump Operator:	John Polley	208	3.7 bpm	189 psi
Bulk #1:	Kale Ochs	165/254		99 bbls
Bulk #2:				

Hurricane Services, Inc.
 250 N. Water St., Suite #200
 Wichita, KS 67202



Customer: LD Drilling		Lease & Well #: Malcomb #4-18		Date: 8/17/2021		
Service District: Oakley KS		County & State: Hodgeman KS		Legals S/T/R: 18-21S-23W		
Job Type: 8.625" 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		
Ticket #: WP 1742						
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures				
78	Fennis	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging	
180/520	Mike	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection	
205	Kale	<input checked="" type="checkbox"/> Safety Footwear	<input checked="" 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 checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below		
Comments						
Muster point entrance of location. Person in charge of head count Fennis. Nearest hospital Scott City KS. Emergency # 911.						
Product/ Service Code						
	Description	Unit of Measure	Quantity		Net Amount	
CP070	60/40/2 Pozmix	sack	225.00		\$2,574.00	
CP100	Calcium Chloride	lb	582.00		\$384.12	
CP120	Cello-flake	lb	49.00		\$75.46	
M015	Light Equipment Mileage	mi	75.00		\$132.00	
M010	Heavy Equipment Mileage	mi	75.00		\$264.00	
M020	Ton Mileage	lm	728.00		\$960.96	
D010	Depth Charge: 0'-500'	job	1.00		\$880.00	
Customer Section: On the following scale how would you rate Hurricane Services Inc.?						
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				Tax Rate:		
Unlikely Extremely Likely				State tax laws deem certain products and services used on new wells to be sales tax exempt.	Net:	\$5,270.54
				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:	\$	5,270.54
HSI Representative: <i>Fennis Giardino</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 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

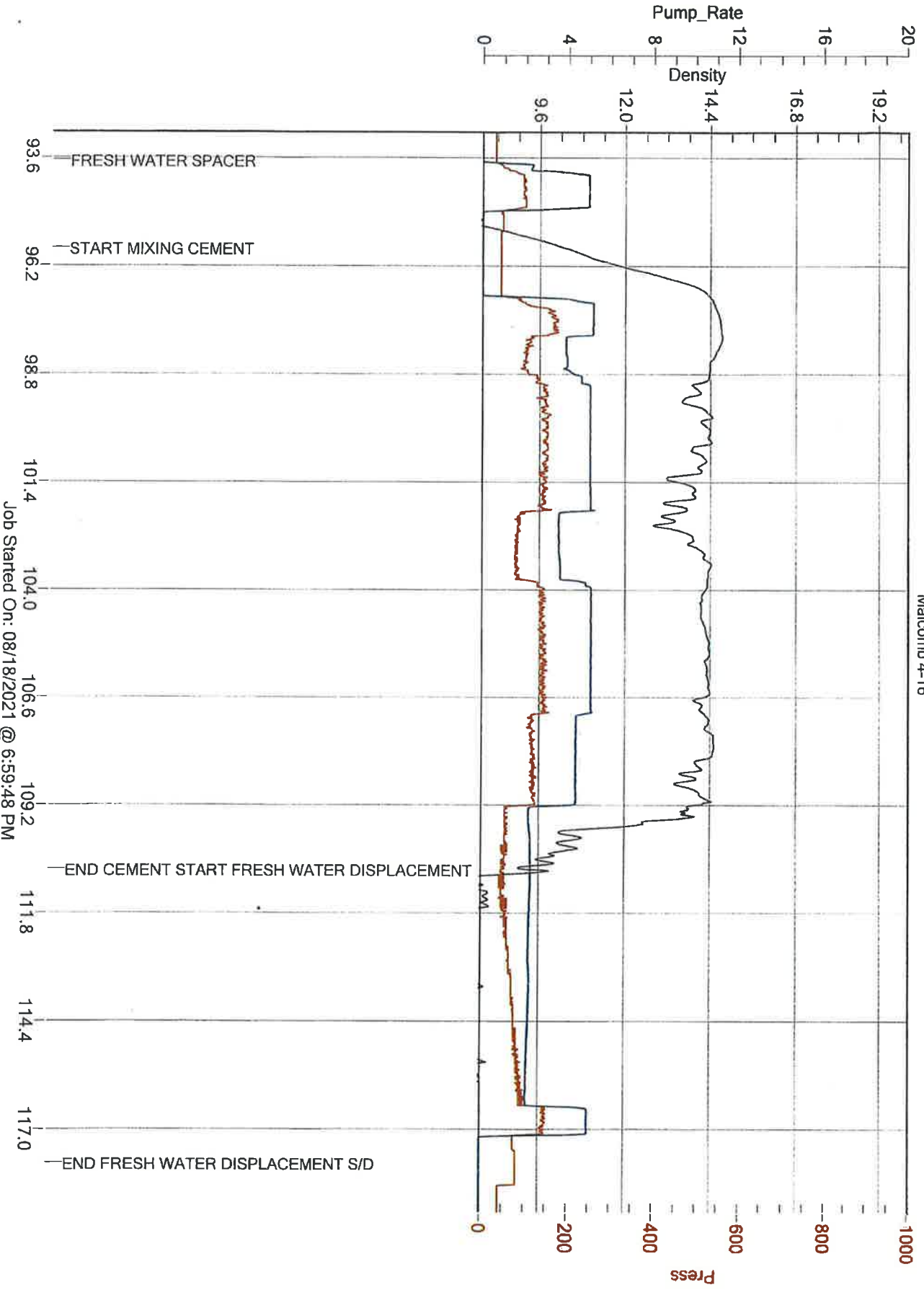
Customer:	LD Drilling	Well:	Malcomb #4-16	Ticket:	WP 1742
City, State:		County:	Hodgeman KS	Date:	8/17/2021
Field Rep:	Fennis Garduno	S-T-R:	16-21S-23W	Service:	8.625" surface

Downhole Information Hole Size: 12.25 in Hole Depth: 249 ft Casing Size: 8 5/8 in Casing Depth: 249.2 ft Tubing / Liner: in Depth: ft Tool / Packer: Tool Depth: ft Displacement: 14.6 bbls	Calculated Slurry - Lead Blend: 60/40/2 POZ MIX Weight: 14.2 ppg Water / Sx: 6.1 gal / sx Yield: 1.33 ft³ / sx Annular Bbls / Ft.: bbs / ft. Depth: ft Annular Volume: 0.0 bbls Excess: Total Slurry: 53.3 bbls Total Sacks: 225 sx	Calculated Slurry - Tail Blend: Weight: ppg Water / Sx: gal / sx Yield: ft³ / sx Annular Bbls / Ft.: bbs / ft. Depth: ft Annular Volume: 0 bbls Excess: Total Slurry: 0.0 bbls Total Sacks: 0 sx
STAGE TOTAL TIME RATE PSI BBLs BBLs REMARKS		

TIME	RATE	PSI	BBLs	BBLs	REMARKS
4:15 PM				-	Journey management meeting
4:30 PM				-	Convoy to location
6:30 PM				-	Arrive on location
6:35 PM				-	Safety meeting
6:45 PM				-	Spot In / rig up equipment
8:25 PM		100.0		-	Rig land casing & circulate
8:30 PM	5.0	100.0	5.0	5.0	Hook cementing equipment to casing & pump fresh water spacer
8:37 PM	5.0	180.0	53.3	58.3	Mix 225 sx poz mix @ 14.2 ppg
8:48 PM	3.0	140.0		58.3	Start fresh water displacement
9:00 PM	3.0	140.0	14.6	72.9	End fresh water displacement s/d shut in casing left 20' cement shoe
9:30 PM				72.9	Rig down / leave location
					CIRCULATED 20 SX CEMENT TO SURFACE

	CREW	UNIT	SUMMARY		
Cementer:	Fennis	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Mike	180/520	4.0 bpm	132 psi	73 bbls
Bulk #1:	Kale	205			
Bulk #2:					

LD Drilling
Malcomb 4-16



Job Started On: 08/18/2021 @ 6:59:48 PM