

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) (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	MOSS 1-3
Doc ID	1638234

Tops

Name	Top	Datum
Anhydrite	2606	+390
Base Anhydrite	2637	+359
Stotler	3656	-660
Heebner	3993	-997
Lansing	4030	-1034
Base Kansas City	4300	-1304
Pawnee	4416	-1420
Fort Scott	4487	-1491
Cherokee	4516	-1520
Mississippi	4654	-1658



**KIM B. SHOEMAKER**  
 CONSULTING GEOLOGIST  
 316-684-9709 \* WICHITA, KS

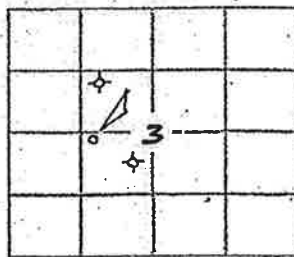
**GEOLOGIST'S REPORT**  
 DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE 1-3 MOSS  
 FIELD WILDCAT  
 LOCATION 2467' FSL ± 1539' FWL  
 SEC 3 TWPSP 9s RGE 31W  
 COUNTY THOMAS STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 SPUD 12-21-20 COMP 1-14-21  
 RTD 4740 LTD 4736  
 MUD UP 3687 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 2996  
 DF \_\_\_\_\_  
 GL 2991  
 Measurements Are All From 2996 KB  
 CASING SURFACE 8 5/8" @  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
 DUAL IND., DENG-N., MICRO

SAMPLES SAVED FROM 3700 TO 4740  
 DRILLING TIME KEPT FROM 3600 TO 4740  
 SAMPLES EXAMINED FROM 3700 TO 4740  
 GEOLOGICAL SUPERVISION FROM 3800 TO 4740  
 GEOLOGIST ON WELL Kim B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2606+390	2609+392
B/ANL	2637+359	2639+357
STOTLER	3656-660	3658-662
HEEBNER	3993-997	3998-1002
LANSING	4030-1034	4034-1038
B/KC	4300-1304	4310-1314
PAWNEE	4416-1420	4420-1424
FORT SCOTT	4487-1491	4490-1494
CHEROKEE	4516-1520	4522-1526
MISSISSIPPI	4654-1658	4657-1661



REMARKS

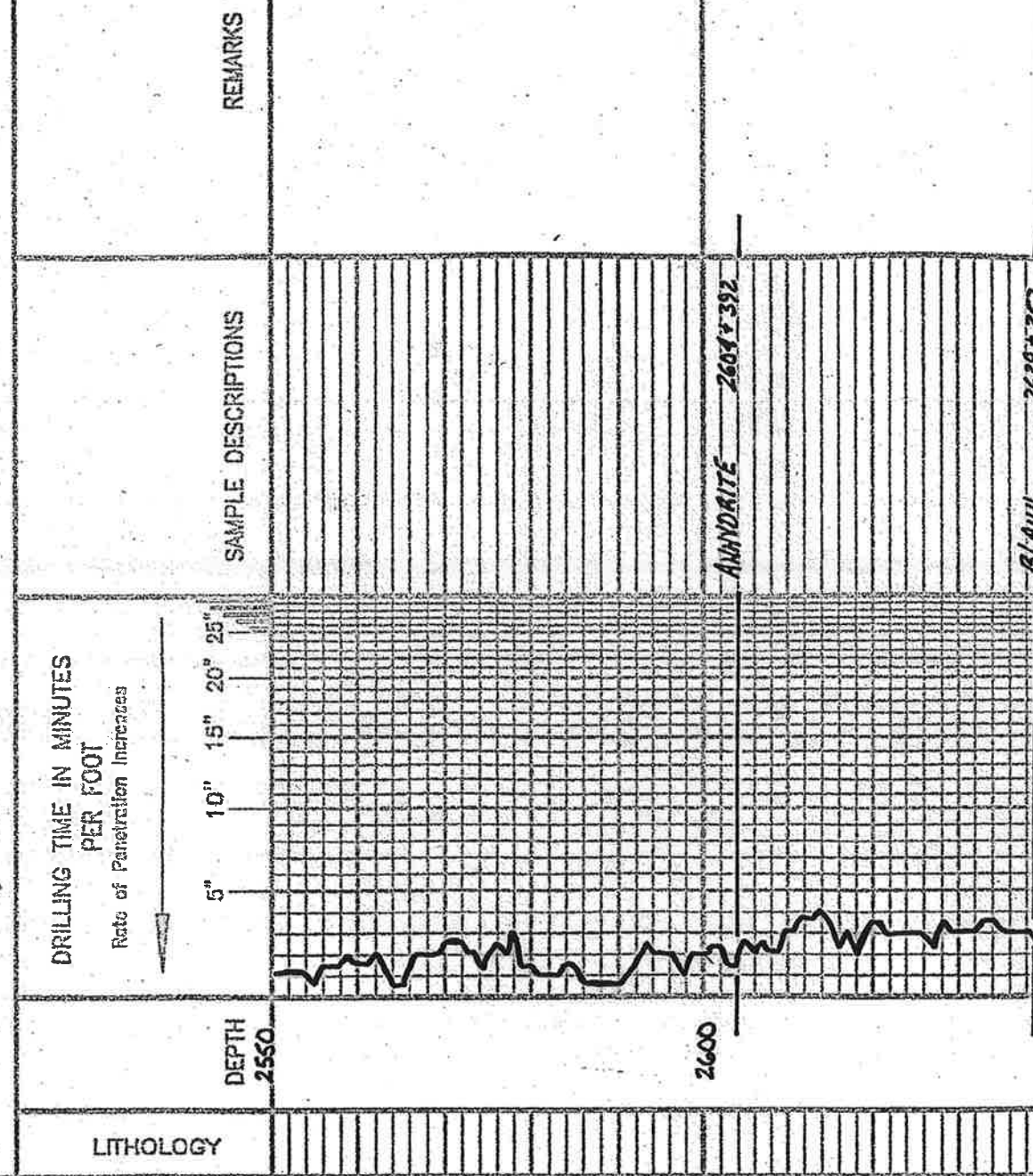
12-21-SPUD  
 12-22 @ 327'  
 CHRISTMAS BREAK  
 1-3 @ 327'  
 1-4 @ 1230'  
 1-5 @ 2050'  
 1-6 @ 2780'  
 1-7 @ 3225'  
 1-8 @ 3600'  
 1-9 @ 3975'  
 1-10 @ 4085'  
 1-11 @ 4250'  
 1-12 @ 4370'

API: 15-193-21100

LEGEND

- Dolomite
- Chert
- Cool. Lime
- Limestone
- Carb on
- Shale
- Sandstone
- Salt
- Anhydrite

SEOF01-11



ANHYDRITE 2609-392

B/ANL 2639-357

BLANK 2639-357

STOTLER 3658-662

Samples are tagged

15 wt. Foss. Gillette Sil. A

15 wt. Foss. Sil. Foss. Sil. A

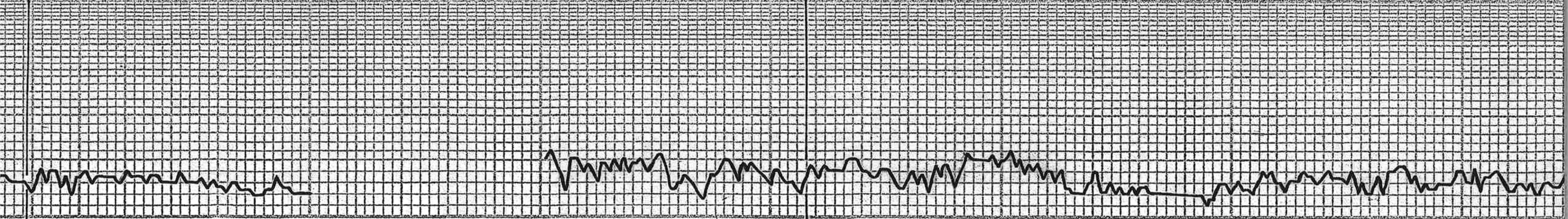
Sh. 14, 14  
15 wt. Sil. Foss. Sil. A

Sh. 13, 13  
15 wt. Sil. Foss. Sil. ch. 1, 1

Sh. 12

15 wt. Sil. Foss. Sil. ch. 1, 1

15 wt. Sil. Foss. Sil. A



2700

3600

3700

3800





15 wt chlk  
15 11g VSi chlk  
▲ wt. q  
**MUNICE CREEK 4162-1166**  
Sh. Blk. Crk. 15 Bl. VSi. For.  
Sh. 11. blk. v.  
Dol. 15 VEnsh. Snd. Sh. Chlk.

15 11g SilA  
15 11g VSi. For.  
Sh. 11g. Silty  
15 7a. wt. 14g. Sil. For. P. VSi. p  
Spill. D.R. Bl. Sil. T. For. No. Flag  
15 7. h. Sil. A

Sh. 11g.  
15 7a. wt. Sil. For. Sil. A. P. VSi. p  
Spill. D.R. Bl. Sil. T. For. No. Flag  
15 7. h. Sil. A VSi. For. No. Flag

**STARK 4245-1249**  
Sh. 11g. v.  
15 11. Bl. g.ool. Sil. A  
15 11g. v.ool. Sil. chlk. v.  
16. g. VSi. For. Sil. Calcifc  
Sh. Blk. Crk.  
Sh. 11g. v.  
15. wt. Sil. For. Sil. Chlk. v.

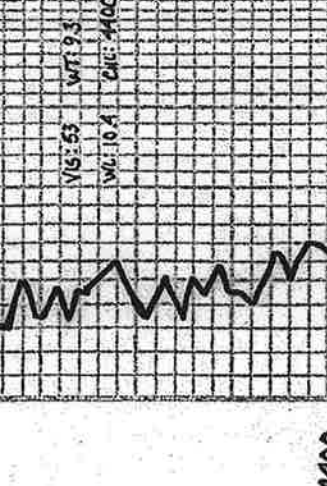
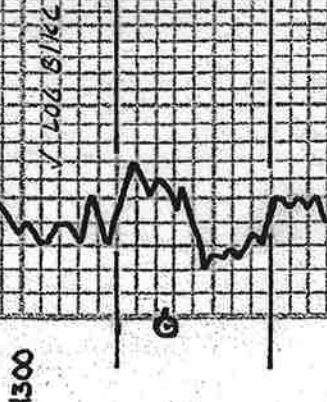
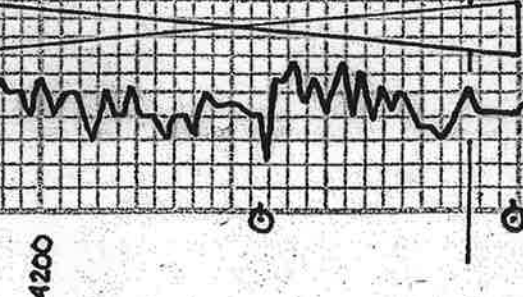
15 8. wt. Sil. For. Sil. A  
**B/KC 4310-1314**  
Sh. Bl.  
Sh. Sil. Silty. Silty. Bl. Bl. v.

**MARMATON 4326-1330**  
15. wt. 11g. VSi. For. Sil. A  
Sh. Bl.  
15. wt. Sil. For. v. Bl. Sil.  
15 11g. VSi. A  
Sh. Bl. Sil. v.

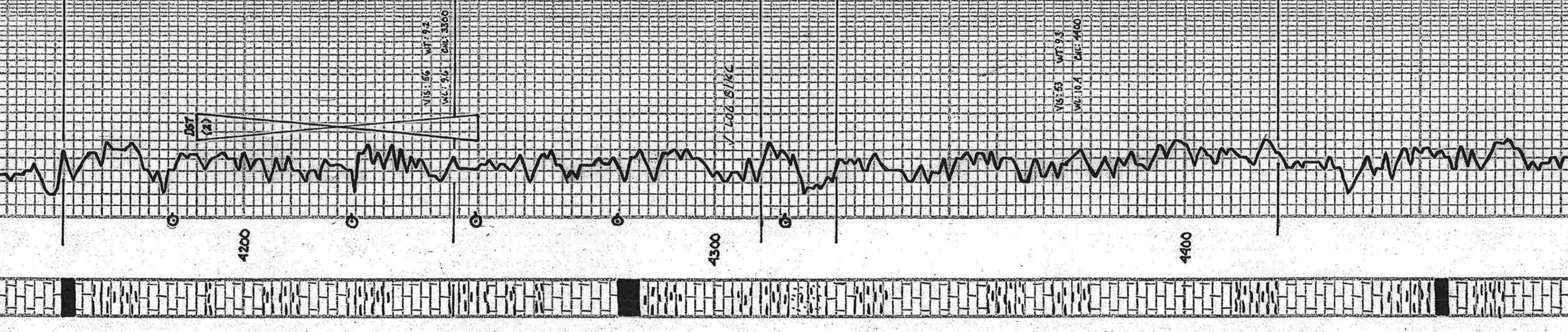
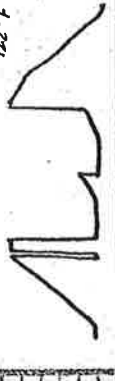
15. wt. VSi. For. Sil. Chlk. v.  
Sh. Bl.  
▲ Orange  
15. wt. Sil. For. Sil. A  
15 11g. VSi. Chlk. v.

Sh. 11g. blk.  
**PANNEE 4420-1424**  
15. wt. Sil. For. Sil. A  
▲ wt. 15 wt. For. Sil. A. v. P. v. v.

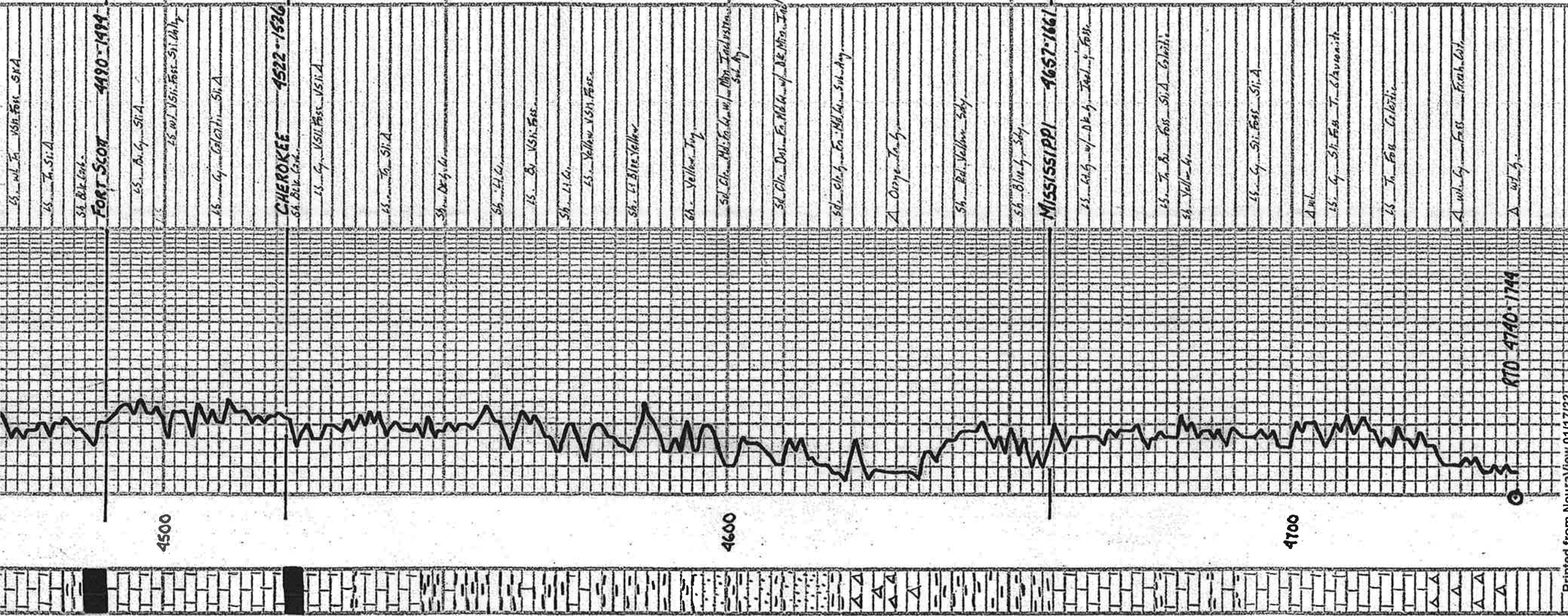
Sh. 11g. v.  
Sh. Blk.  
15. wt. Sil. For. Sil. A  
15. wt. Sil. For. Sil. A  
Sh. 11g. v.



**DST (2) 4190-4250**  
/ STRENGTH: Blow bulb to 14"  
2nd OPEN: No blow  
30-30-30-30  
Tool Sample Rec.: 5' Mud  
17' 0.1  
No. 0.065 99' Mud  
FP: 13-14 M. 15"  
SIP: 459-337\*







ls. wt. in 10h. for SKA  
ls. T. SilA  
sh. blk. conk.

**FORT SCOTT 4490-1494**  
ls. blk. conk.  
ls. wt. 15h. for Sil. Chk.  
ls. G. Galati. SilA

**CHEROKEE 4522-1526**  
sh. blk. conk.  
ls. G. 15h. for SilA

ls. G. SilA  
sh. blk. conk.

ls. G. 15h. for SilA  
sh. blk. conk.

ls. G. 15h. for SilA  
sh. blk. conk.

sh. blk. conk.  
ls. G. 15h. for SilA  
sh. blk. conk.

ls. G. 15h. for SilA  
sh. blk. conk.

**MISSISSIPPI 4657-1661**  
ls. G. 15h. for SilA  
sh. blk. conk.

ls. G. 15h. for SilA  
sh. blk. conk.

ls. G. 15h. for SilA  
sh. blk. conk.

ls. G. 15h. for SilA  
sh. blk. conk.

Printed from NeuraView 01/17/22



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: 12/22/2021  
 Invoice #: 0357838  
 Lease Name: Moss  
 Well #: 1-3 (New)  
 County: Thomas, Ks  
 Job Number: WP2250  
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	250.000	18.000	4,500.00
Light Eq Mileage	20.000	1.800	36.00
Heavy Eq Mileage	20.000	3.600	72.00
Ton Mileage	235.000	1.350	317.25
Depth Charge 0'-500'	1.000	900.000	900.00

**Total** 5,825.25

**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!**







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: 1/14/2022  
 Invoice #: 0358272  
 Lease Name: Moss  
 Well #: 1-3  
 County:  
 Job Number: WP2315  
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
Depth Charge 2001'-3000'	1.000	1,840.000	1,840.00
Heavy Eq Mileage	20.000	3.680	73.60
Light Eq Mileage	20.000	1.840	36.80
Ton Mileage	213.600	1.380	294.77
H-Plug	240.000	11.960	2,870.40
Cement Blending & Mixing	240.000	1.288	309.12
Wooden plug 8 5/8"	1.000	156.400	156.40

Net Invoice 5,581.09  
 Sales Tax: 333.09  
**Total** 5,914.18

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

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**WE APPRECIATE YOUR BUSINESS!**



Customer	LD Drilling LLC	Lease & Well #	Moss 1-3	Date	1/14/2022
Service District	Oakley KS	County & State	Thomas KS	Legals S/T/R	3-9S-31W
Job Type	PTA	<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			

73	Josh	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging
230	Kale	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input checked="" type="checkbox"/> Required Permits	<input checked="" type="checkbox"/> Fall Protection
165-254	Trevino	<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 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
D013	Depth Charge: 2001'-3000'	job	1.00	\$1,840.00
M010	Heavy Equipment Mileage	mi	20.00	\$73.60
M015	Light Equipment Mileage	mi	20.00	\$36.80
M020	Ton Mileage	tm	213.60	\$294.77
CP055	H-Plug	sack	240.00	\$2,870.40
C060	Cement Blending & Mixing Service	sack	240.00	\$309.12
FE290	8 5/8" Wooden Plug	ea	1.00	\$156.40

Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$5,581.09
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:	
			Sale Tax:	\$ -
			Total:	\$ 5,581.09
HSI Representative: <i>Josh Mosier</i>				

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**



**CEMENT TREATMENT REPORT**

Customer:	LD Drilling LLC	Well:	Moss 1-3	Ticket:	WP 2315
City, State:	Oakley KS	County:	Thomas KS	Date:	1/14/2022
Field Rep:	Josh Mosier	S-T-R:	3-9S-31W	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7.875 in	Blend:	H- plug	Blend:	
Hole Depth:	4770 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.42 ft <sup>3</sup> / sx	Yield:	ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	2650 ft	Depth:	ft
Tool / Packer:		Annular Volume:	107.6 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	60.3 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	240 sx	Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
200P			-	-	GOT TO LOCATION/ RIG WAS PULLING DRILL COLLARS
205P				-	SAFETY MEETING
210P				-	RIGGED UP TRUCKS
400P				-	LANDED DRILL PIPE
412P	3.0	200.0	5.0	5.0	PUMPED H2O AHEAD
414P	5.0	400.0	12.6	17.6	PUMPED 50 SKS OF H- PLUG @ 2650 FT
419P	5.0	150.0	33.2	50.8	DISPLACED WITH H2O
510P	3.0	200.0	5.0	55.8	PUMPED H2O AHEAD
512P	5.5	500.0	25.2	81.0	PUMPED 100 SKS OF H- PLUG @ 1800 FT
517P	3.0	200.0	16.7	97.7	DISPLACED WITH H2O
608P	3.0	200.0	5.0	102.7	PUMPED H2O AHEAD
610P	5.0	450.0	12.6		PUMPED 50 SKS OF H- PLUG @ 375 FT
613P	3.0	200.0	1.0		DISPLACED WITH H2O
710P	3.0	50.0	2.5		PUMPED 10 SKS OF H- PLUG IN TOP 40 FT
715P	3.0	50.0	7.5		PUMPED 30 SKS IN RH
730P					PLUG DOWN
731P					WASHED UP PUMP TRUCK
740P					RIGGED DOWN TRUCKS
800P					OFF LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Josh	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Kale	230	3.8 bpm	236 psi	126 bbls
Bulk #1:	Trevino	165-254			
Bulk #2:					



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

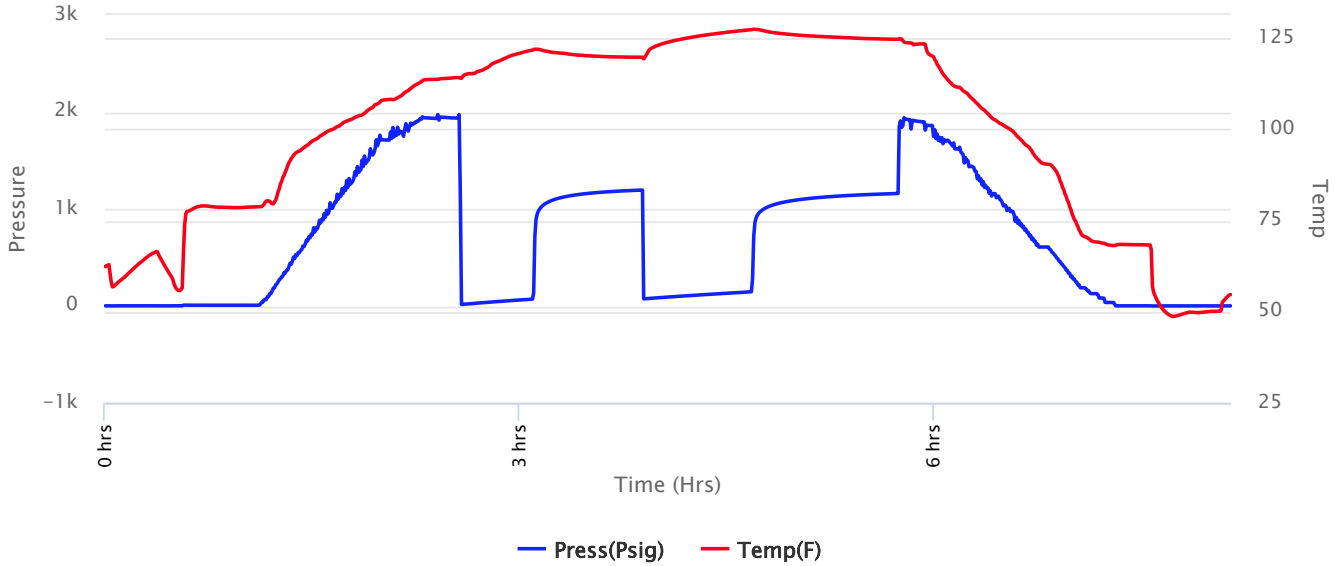
**DATE**  
 January  
**10**  
 2022

**DST #1      Formation: Lans B      Test Interval: 4055 - 4085'      Total Depth: 4085'**  
 Time On: 04:58 01/10      Time Off: 12:53 01/10  
 Time On Bottom: 07:28 01/10      Time Off Bottom: 10:28 01/10

Electronic Volume Estimate:  
 289'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 12.3" at 30 min	Current Reading: 0" at 45 min	Current Reading: 14.3" at 45 min	Current Reading: 0" at 60 min
Max Reading: 12.3"	Max Reading: 0"	Max Reading: 14.3"	Max Reading: 0"

Inside Recorder







**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**10**  
 2022

**DST #1**      **Formation: Lans B**      **Test Interval: 4055 - 4085'**      **Total Depth: 4085'**  
 Time On: 04:58 01/10      Time Off: 12:53 01/10  
 Time On Bottom: 07:28 01/10      Time Off Bottom: 10:28 01/10

Recovered

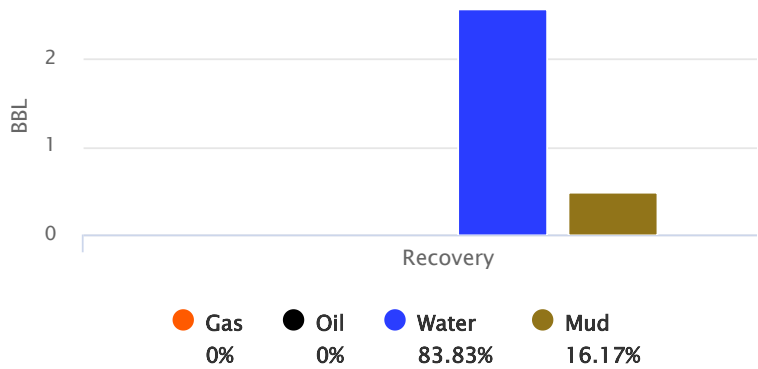
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
46	0.47196	HMCW	0	0	50	50
252	2.58552	SLMCW	0	0	90	10

Total Recovered: 298 ft  
 Total Barrels Recovered: 3.05748

Reversed Out  
 NO

Initial Hydrostatic Pressure	1932	PSI
Initial Flow	14 to 70	PSI
<b>Initial Closed in Pressure</b>	<b>1194</b>	<b>PSI</b>
Final Flow Pressure	72 to 145	PSI
<b>Final Closed in Pressure</b>	<b>1159</b>	<b>PSI</b>
Final Hydrostatic Pressure	1927	PSI
Temperature	128	°F
Pressure Change Initial Close / Final Close	3.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
County: THOMAS  
State: KS  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2992 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 542  
API #: 15-193-21100

**Operation:**  
Uploading recovery & pressures

**DATE**  
January  
**10**  
2022

**DST #1      Formation: Lans B      Test Interval: 4055 - 4085'      Total Depth: 4085'**  
Time On: 04:58 01/10      Time Off: 12:53 01/10  
Time On Bottom: 07:28 01/10      Time Off Bottom: 10:28 01/10

**BUCKET MEASUREMENT:**

1st Open: WSB. BOB in 30 minutes  
1st Close: NOBB  
2nd Open: 3/4" Blow. BOB in 45 minutes  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 95% Water 5% Mud  
Ph: 7  
Measured RW: .51 @ 51 degrees °F  
RW at Formation Temp: 0.219 @ 128 °F  
Chlorides: 18000 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**10**  
 2022

**DST #1      Formation: Lans B      Test Interval: 4055 - 4085'      Total Depth: 4085'**  
 Time On: 04:58 01/10      Time Off: 12:53 01/10  
 Time On Bottom: 07:28 01/10      Time Off Bottom: 10:28 01/10

**Down Hole Makeup**

<b>Heads Up:</b> 13.62 FT	<b>Packer 1:</b> 4050 FT
<b>Drill Pipe:</b> 4036.05 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4055 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4039.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4057 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 30	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/4</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 29 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
County: THOMAS  
State: KS  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2992 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 542  
API #: 15-193-21100

**Operation:**  
Uploading recovery & pressures

**DATE**  
January  
**10**  
2022

**DST #1**      **Formation: Lans B**      **Test Interval: 4055 - 4085'**      **Total Depth: 4085'**  
Time On: 04:58 01/10      Time Off: 12:53 01/10  
Time On Bottom: 07:28 01/10      Time Off Bottom: 10:28 01/10

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.1      **Viscosity:** 59      **Filtrate:** 8.8      **Chlorides:** 3000 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**10**  
 2022

**DST #1      Formation: Lans B      Test Interval: 4055 - 4085'      Total Depth: 4085'**  
 Time On: 04:58 01/10      Time Off: 12:53 01/10  
 Time On Bottom: 07:28 01/10      Time Off Bottom: 10:28 01/10

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

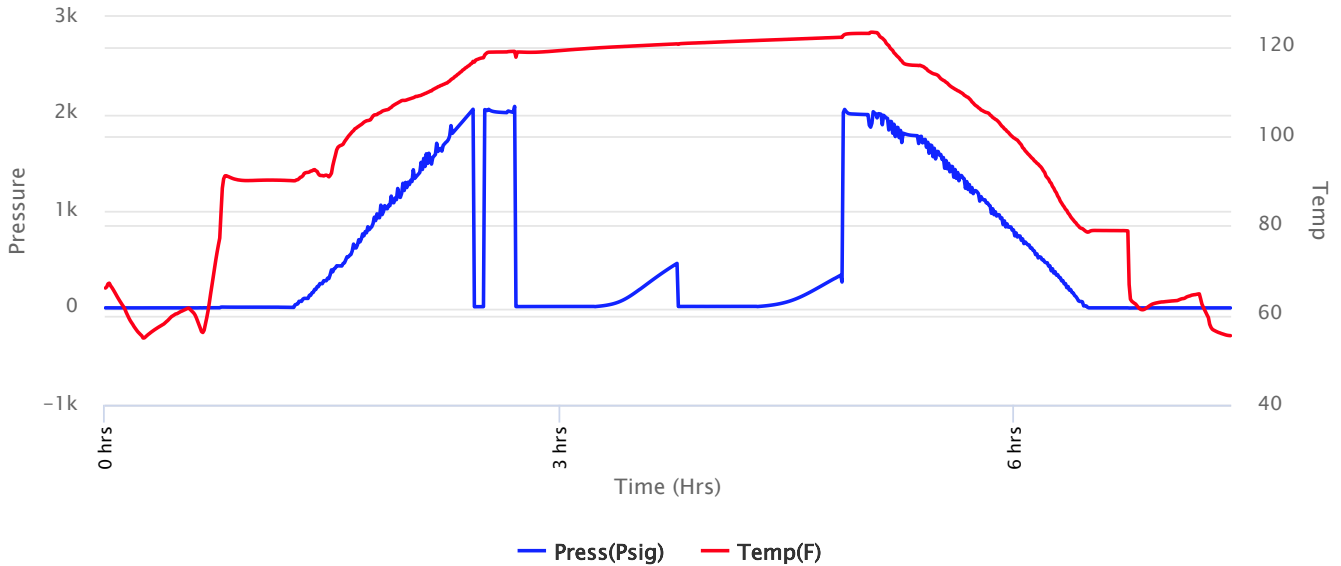
**DATE**  
 January  
**11**  
 2022

**DST #2**      **Formation: LKC I-J**      **Test Interval: 4190 - 4250'**      **Total Depth: 4250'**  
 Time On: 09:55 01/11      Time Off: 17:08 01/11  
 Time On Bottom: 12:33 01/11      Time Off Bottom: 14:33 01/11

Electronic Volume Estimate:  
 4'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: .30" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min
Max Reading: .35"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**11**  
 2022

**DST #2**      **Formation: LKC I-J**      **Test Interval: 4190 - 4250'**      **Total Depth: 4250'**  
 Time On: 09:55 01/11      Time Off: 17:08 01/11  
 Time On Bottom: 12:33 01/11      Time Off Bottom: 14:33 01/11

Recovered

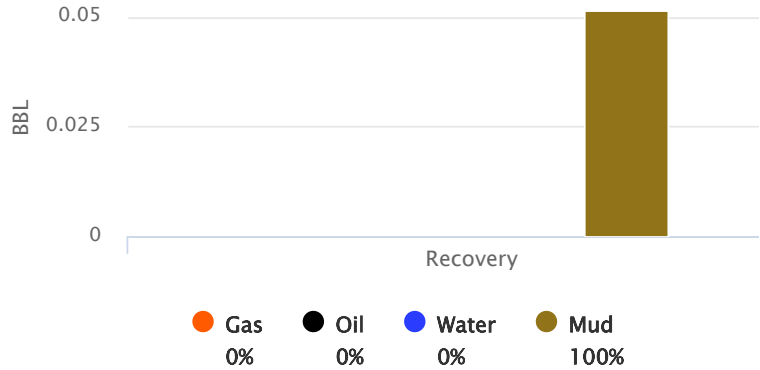
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0513	M	0	0	0	100

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.0513

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	2013	PSI
Initial Flow	13 to 14	PSI
<b>Initial Closed in Pressure</b>	<b>459</b>	<b>PSI</b>
Final Flow Pressure	14 to 15	PSI
<b>Final Closed in Pressure</b>	<b>337</b>	<b>PSI</b>
Final Hydrostatic Pressure	2013	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	26.6	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
County: THOMAS  
State: KS  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2992 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 542  
API #: 15-193-21100

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
January  
**11**  
2022

**DST #2      Formation: LKC I-J      Test Interval: 4190 -      Total Depth: 4250'**  
**4250'**  
Time On: 09:55 01/11      Time Off: 17:08 01/11  
Time On Bottom: 12:33 01/11      Time Off Bottom: 14:33 01/11

**BUCKET MEASUREMENT:**

1st Open: WSB. Built to 1/4 inch in 30 minutes

1st Close: NOBB

2nd Open: NOBB

2nd Close: No Blow

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud





**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2992 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 542  
 API #: 15-193-21100

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**11**  
 2022

**DST #2**      **Formation: LKC I-J**      **Test Interval: 4190 - 4250'**      **Total Depth: 4250'**  
 Time On: 09:55 01/11      Time Off: 17:08 01/11  
 Time On Bottom: 12:33 01/11      Time Off Bottom: 14:33 01/11

**Down Hole Makeup**

<b>Heads Up:</b> 35.77 FT	<b>Packer 1:</b> 4185 FT
<b>Drill Pipe:</b> 4193.2 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4190 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4174.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 1 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 60	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.5 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 25 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
County: THOMAS  
State: KS  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2992 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 542  
API #: 15-193-21100

**Operation:**  
Uploading recovery & pressures

**DATE**  
January  
**11**  
2022

**DST #2      Formation: LKC I-J      Test Interval: 4190 - 4250'      Total Depth: 4250'**  
Time On: 09:55 01/11      Time Off: 17:08 01/11  
Time On Bottom: 12:33 01/11      Time Off Bottom: 14:33 01/11

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 56      **Filtrate:** 9.6      **Chlorides:** 3300 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Moss #1-3**

SEC: 3 TWN: 9S RNG: 31W  
 County: THOMAS  
 State: KS  
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**DST #2      Formation: LKC I-J      Test Interval: 4190 - 4250'      Total Depth: 4250'**  
 Time On: 09:55 01/11      Time Off: 17:08 01/11  
 Time On Bottom: 12:33 01/11      Time Off Bottom: 14:33 01/11

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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