

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 Recompletion Date \_\_\_\_\_ 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](mailto: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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Hurricane Services, Inc.  
 250 N. Water St., Suite #200  
 Wichita, KS 67202



Customer	N-10 EXPLORATION LLC	Lease & Well #	MEDICINE RIVER RANCH E4	Date	5/21/2022
Service District	PRATT	County & State	BARBER KS	Legals S/T/R	22-34S-11W
Job Type	SURFACE	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
912	MATTAL	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
179/521	OSBORN	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
	FLORENCIO	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
<b>Comments</b>					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP070	60/40/2 Pozmix	sack	200.00	\$2,820.00
CP100	Calcium Chloride	lb	516.00	\$363.78
CP120	Cello-flake	lb	80.00	\$82.25
M015	Light Equipment Mileage	mi	59.00	\$94.00
M010	Heavy Equipment Mileage	mi	109.00	\$376.00
M020	Ton Mileage	tn	450.00	\$608.30
C060	Cement Blending & Mixing Service	sack	205.00	\$263.20
D010	Depth Charge: 0'-50'	job	1.00	\$940.00
C005	Cement Data Acquisition	job	1.00	\$235.00
R051	Service Supervisor	day	1.00	\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$6,055.53
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			Total Taxable \$	\$ -
			Tax Rate:	
			State tax laws deem certain products and services used on new wells to be sales tax exempt.	Sale Tax: \$
			Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	
			Total:	\$ 6,055.53
HSI Representative: <i>Mike Mattal</i>				

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 3/4% 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.

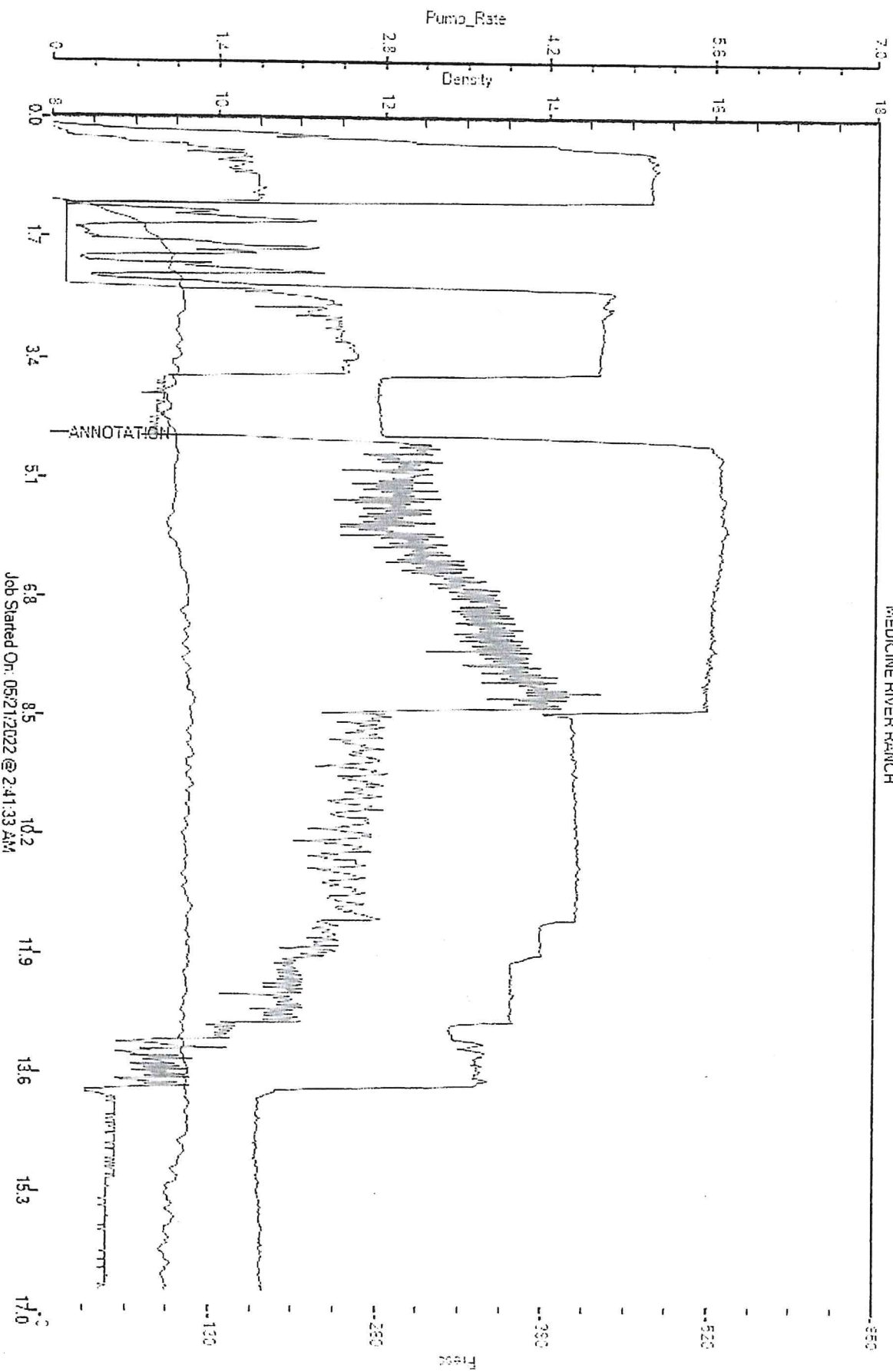
X *Bob Thompson*

**CUSTOMER AUTHORIZATION SIGNATURE**





N10 EXPLORATION  
MEDICINE RIVER RANCH



Job Started On: 05/21/2022 @ 2:41:33 AM

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



Customer	N-10 EXPLORATION,LLC		Lease & Well #	MEDICINE RIVER RANCH E 4		Date	5/26/2022	
Service District	PRATT, KS.		County & State	BARBER, KS.		Legals S/T/R	22-34S-11W	
Job Type	LONGSTRING	<input 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	Job Safety Analysis - A Discussion of Hazards & Safety Procedures						
926	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging			
179-521	CLIFTON	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection			
182-534	TRAVINO	<input checked="" type="checkbox"/> Safety Footwear	<input checked="" type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations			
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input checked="" type="checkbox"/> Additional Chemical/Acid PPE	<input 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				
<b>Comments</b>								
5 1/2" LONGSTRING								

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	150.00	\$4,935.00
CP055	H-Plug	sack	75.00	\$987.00
CP120	Cello-flake	lb	39.00	\$64.16
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$352.50
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$329.00
FE135	5 1/2 Turbolizer	ea	2.00	\$940.00
AF096	Liquid KCL Substitute 2	gal	5.00	\$94.00
M015	Light Equipment Mileage	mi	45.00	\$84.60
M010	Heavy Equipment Mileage	mi	90.00	\$338.40
M020	Ton Mileage	tm	459.00	\$647.19
C060	Cement Blending & Mixing Service	sack	225.00	\$296.10
D015	Depth Charge: 4001'-5000'	job	1.00	\$2,350.00
C035	Cement Data Acquisition	job	1.00	\$235.00
R061	Service Supervisor	day	1.00	\$275.00
C050	Cement Plug Container	job	1.00	\$235.00

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	\$ -	Tax Rate:		Net:	\$12,162.95
<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:	\$ 12,162.95
		HSI Representative:		<i>Keven Lesley</i>			

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x *Tom Perci* **CUSTOMER AUTHORIZATION SIGNATURE**





<b>CEMENT TREATMENT REPORT</b>					
Customer:	N-10 EXPLORATION,LLC	Well:	MEDICINE RIVER RANCH E 4	Ticket:	WP2862
City, State:		County:	BARBER, KS.	Date:	5/26/2022
Field Rep:	Tim Pierce	S-T-R:	22-34S-11W	Service:	LONGSTRING

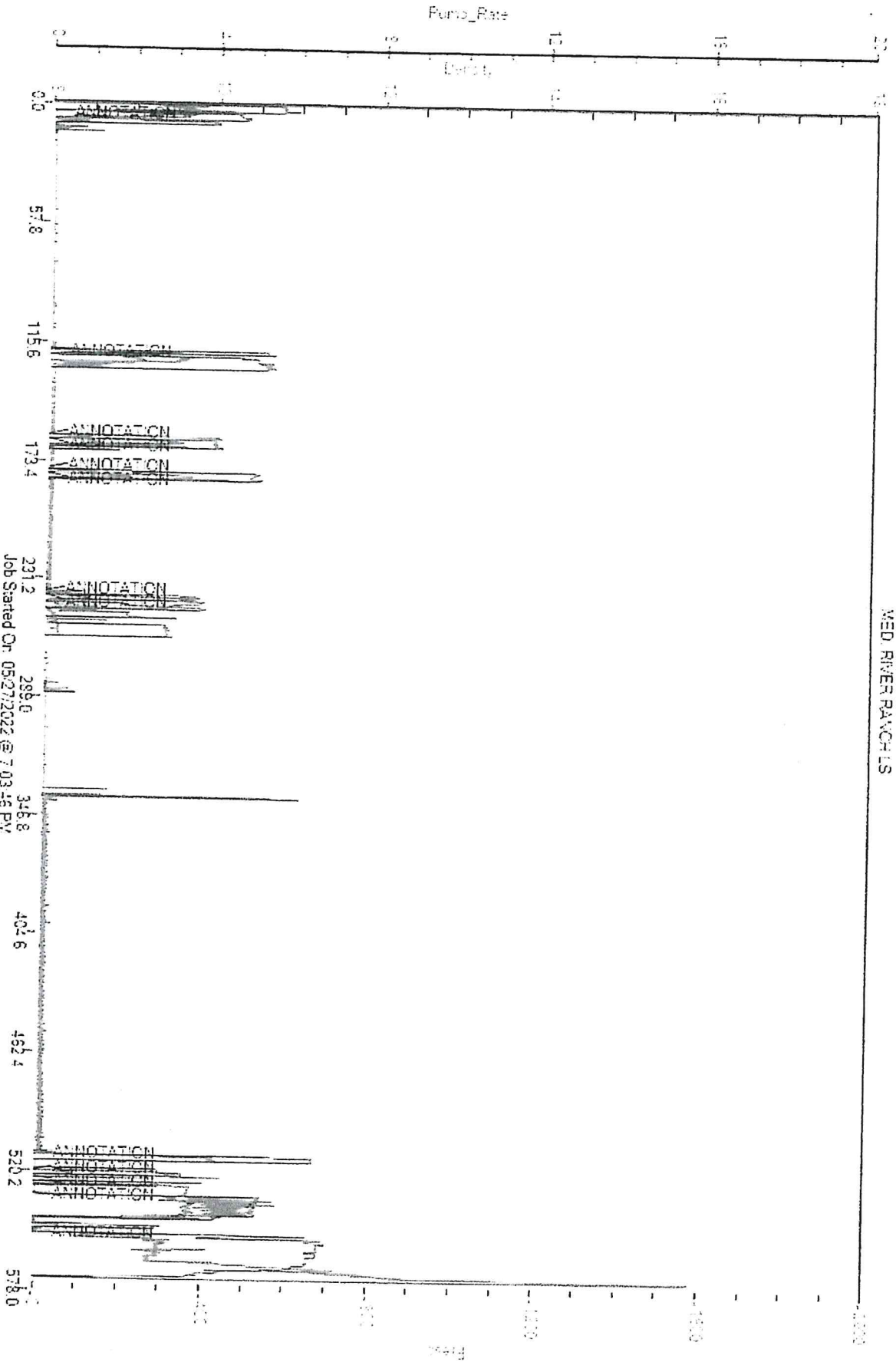
<b>Downhole Information</b>		<b>Calculated Slurry - Lead</b>		<b>Calculated Slurry - Tail</b>	
Hole Size:	7 7/8 in	Blend:	SCAVENGER	Blend:	H-LONG
Hole Depth:	4983 ft	Weight:	13.8 ppg	Weight:	15 ppg
Casing Size:	5 1/2 in 14#	Water / Sx:	6.9 gal / sx	Water / Sx:	6.0 gal / sx
Casing Depth:	4966.8 ft	Yield:	1.42 ft <sup>3</sup> / sx	Yield:	1.42 ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbbls / Ft.:	bbs / ft.	Annular Bbbls / Ft.:	bbs / ft.
PLUG DEPTH:	4927.09 ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	120.5 bbls	Total Slurry:	6.0 bbls	Total Slurry:	37.9 bbls
		Total Sacks:	25 sx	Total Sacks:	150 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
4:30PM			-	-	ON LOCATION- SPOT EQUIPMENT
7:45PM				-	RUN 118 JTS 5 1/2" X 14# CASING
//////////				-	TURBOLIZERS- 1,3,5,7,9,11,13,15
				-	CASING ON BOTTOM
10:20PM				-	HOOK UP TO CASING AND BREAK CIRCULATION WITH RIG PUMP AND MUD
11:30PM	6.0	300.0	20.0	20.0	PUMP 2% KCL H <sub>2</sub> O
	6.0			20.0	PLUG RATHOLE = 30 SKS H PLUG ..... PLUG MOUSEHOLE = 20 SKS H PLUG
11:55PM	5.0	250.0	6.0	26.0	MIX 25 SKS H PLUG AS SCAVENGER @ 13.8 PPG
11:58PM	6.0	200.0	37.9	63.9	MIX 150 SKS H-LONG CEMENT @ 15 PPG
12:05AM				63.9	SHUT DOWN- CLEAR PUMP AND LINES- DROP LATCH DOWN PLUG
12:15AM	7.0	200.0	-	63.9	START DISPLACEMENT
12:28AM	6.0	400.0	86.0		LIFT PRESSURE
12:27AM	4.0	800.0	110.0		SLOW RATE
12:30AM	3.0	1,500.0	120.5		PLUG DOWN- HELD
					CIRCULATION THRU JOB
					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	926	Average Rate	Average Pressure	Total Fluid
Pump Operator:	CLIFTON	179-521	5.4 bpm	521 psi	380 bbls
Bulk #1:	TRAVINO	182-534			
Bulk #2:					



N-10 EXPLORATION LLC  
MED. RIVER RANCH 15



N-10 MEDICINE RIVER RANCH E-4 LONGSTRING WP 2862 IMPacdb 1

# Timothy G. Pierce

## Petroleum Geologist

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

COMPANY N-10 Exploration, LLC

LEASE Medicine River Ranch 'E' #4

FIELD Landis

LOCATION 3782' FSL & 2310' FEL

SEC 22 TWSP 34S RGE 11W

COUNTY Barber STATE Kansas

CONTRACTOR Fossil Drilling Rig #3

SPUD 5-20-2022 COMP 5-26-2022

RTD 4982 LTD 4983

MUD UP 3025 TYPE MUD Chemical

SAMPLES SAVED FROM 4300 TO RTD

DRILLING TIME KEPT FROM 4300 TO RTD

SAMPLES EXAMINED FROM 4300 TO RTD

GEOLOGICAL SUPERVISION FROM 4285 to RTD

GEOLOGIST ON WELL Tim Pierce

#### ELEVATIONS

KB 1342'

DF \_\_\_\_\_

GL 1330'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR \_\_\_\_\_

SURFACE 8-5/8" at 265'

PRODUCTION 5-1/2" at 4980'

#### ELECTRICAL SURVEYS

DIL / CN-CD

Midwest Wireline Svcs.

#### FORMATION TOPS

#### ELECTRIC LOG

#### SAMPLE

Heebner Sh. 3638 (-2296) NA

Stark Sh. 4331 (-2989) 4330 (-2988)

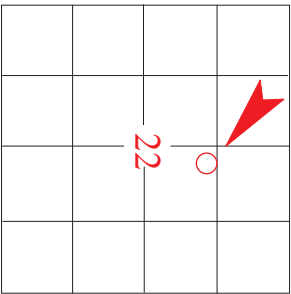
Cherokee Sh. 4551 (-3209) 4549 (-3207)

Mississippi 4603 (-3261) 4597 (-3255)

Chattanooga Sh. 4887 (-3545) 4887 (-3545)

Maquoketa Sh. 4913 (-3571) 4912 (-3570)

Viola 4949 (-3607) 4947 (-3605)

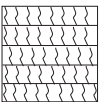


API # 15-007-24,424

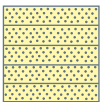
REMARKS The Mississippi section carried good shows of oil and looked similar to the E#1 and E#2 wells on logs, therefore 5-1/2" production pipe was set at 4980' for a completion in the Mississippi.

*Timothy G. Pierce*

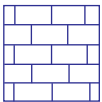
#### LEGEND



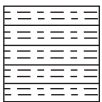
Anhydrite



Sandstone



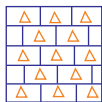
Limestone



Shale



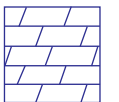
Carb Sh



Cherty LS



Chert



Dolomite

#### GAS SCALE

DRILLING TIME IN  
MINUTES PER FOOT

Rate of Penetration Decreases



DEPTH

LITHOLOGY

SAMPLE DESCRIPTION

REMARKS

5 10 15

GY

10 100 500

4000

50

4100

50

4200

5-20-22 - Spud at 9:30 PM drill 12-1/4" to 265' run 6 jts 8-5/8", cem w/200 sx 60/40 Poz, PD 4:15 AM 5-21-22

5-21-22 - 7:00 AM 265' - WOC DP at 1:00 PM

5-22-22 - 7:00 AM drlg @ 1338'

5-23-22 - 7:00 AM drlg @ 2068'

5-24-22 - 7:00 AM drlg @ 3299'

5-25-22- 7:00 AM drlg @ 4547' RTD 4982' 5:30 PM

5-26-22 - 7:00 AM 4982' Logging



50

4300

Vis 54  
Wt. 9.4  
LCM 4#

LS - tan-gr, fn xtl, dense

LS -gr-tan-wht, fn xtl, dense

Stark Sh.  
4330 (-2988)

Sh - blk carb

LS - tan-gr, fn xtl, scat vug to slt  
oolitic porosity, no show

Geologist on Location  
12:30 AM 5-24-22

50

LS - tan-gr, dense

Sh - blk carb

LS - tan-gr, fn xtl, dense

Vis 52  
Wt. 9.4  
LCM 4#

LS - gr-tan, dense

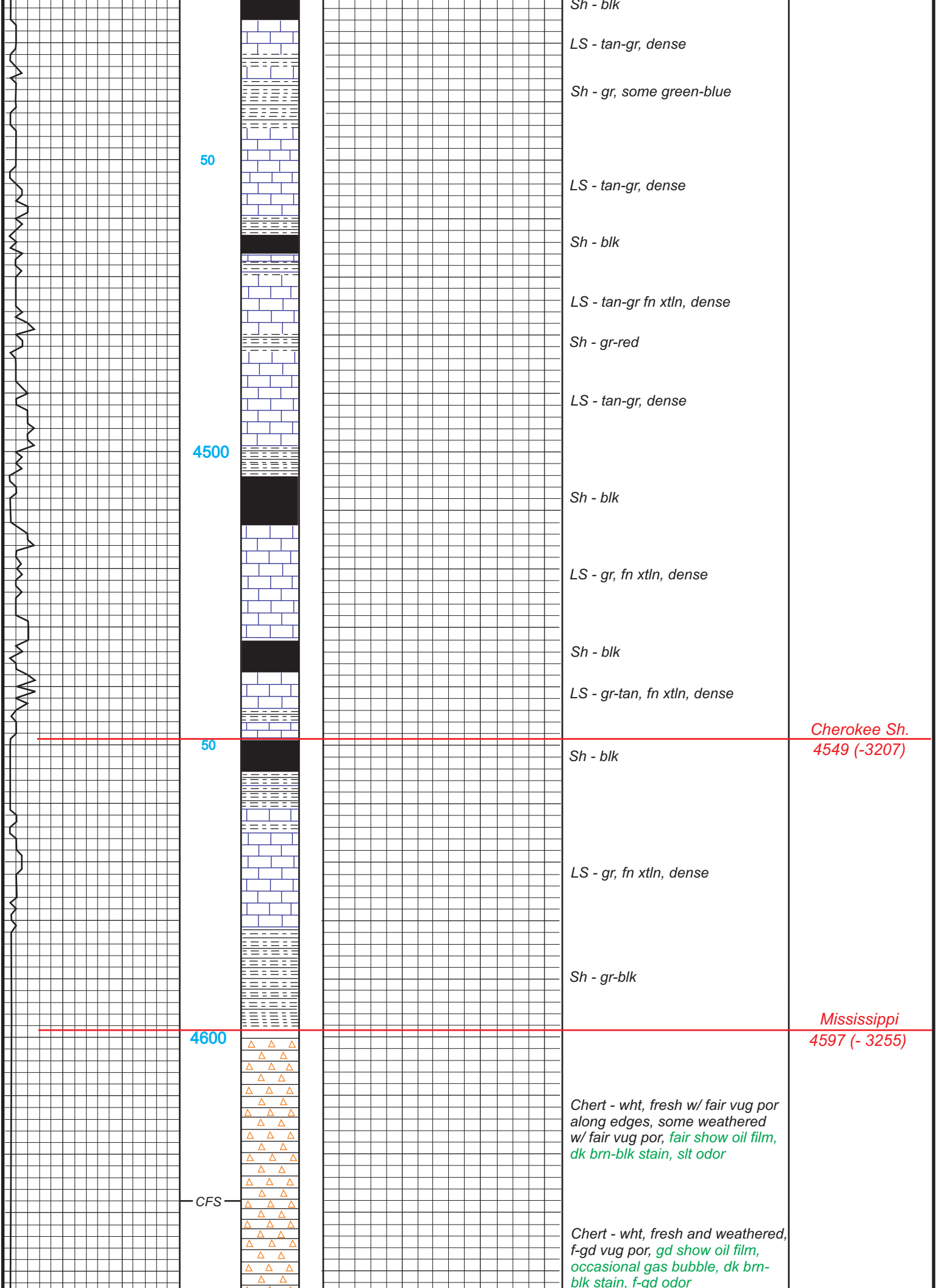
Sh - blk

4400

LS - tan-gr, dense

Sh - gr

LS - tan-gr, dense



50  
CFS

Vis 47  
Wt. 9.6  
LCM 4#  
Filt 10.8

4700

50

4800

50

*LS/Dolo - lt gr-tan, fn xtlh to granular, dense*

*Dolo/LS - lt -dk gr, granular, dense*

*Dolo/LS - lt and dk gr, granular, dense to slt shaley*

*Dolo - lt-dk gr, granular, dense shaley in part*

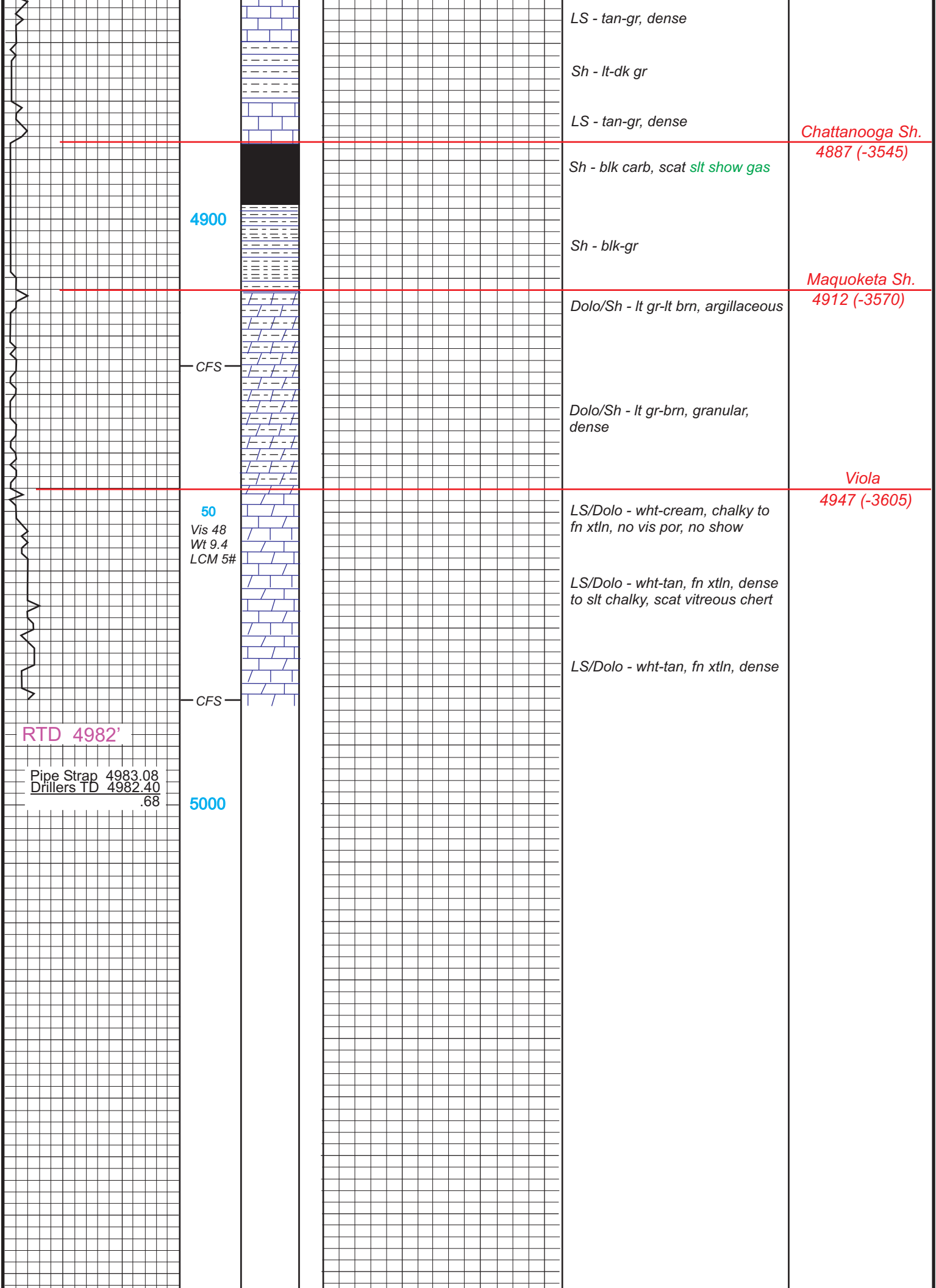
*Dolo - lt-dk gr granular, and argillaceous*

*Sh - lt-dk g*

*Sh - lt-dk g*

*Sh - lt-dk gr*





LS - tan-gr, dense

Sh - lt-dk gr

LS - tan-gr, dense

Chattanooga Sh.  
4887 (-3545)

Sh - blk carb, scat *slt show gas*

4900

Sh - blk-gr

Maquoketa Sh.  
4912 (-3570)

Dolo/Sh - lt gr-lt brn, argillaceous

CFS

Dolo/Sh - lt gr-brn, granular, dense

Viola

4947 (-3605)

50  
Vis 48  
Wt 9.4  
LCM 5#

LS/Dolo - wht-cream, chalky to fn xtl, no vis por, no show

LS/Dolo - wht-tan, fn xtl, dense to slt chalky, scat vitreous chert

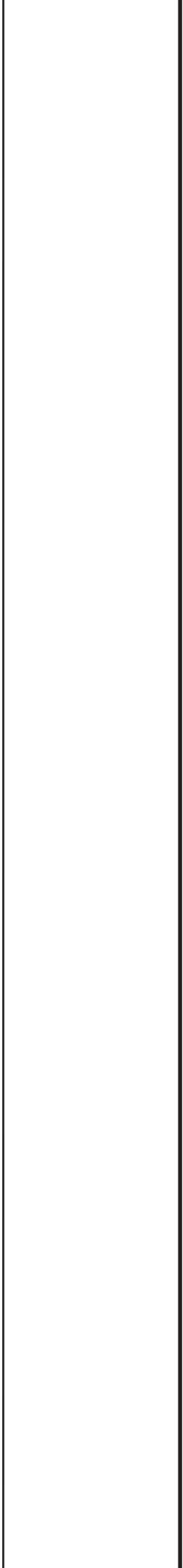
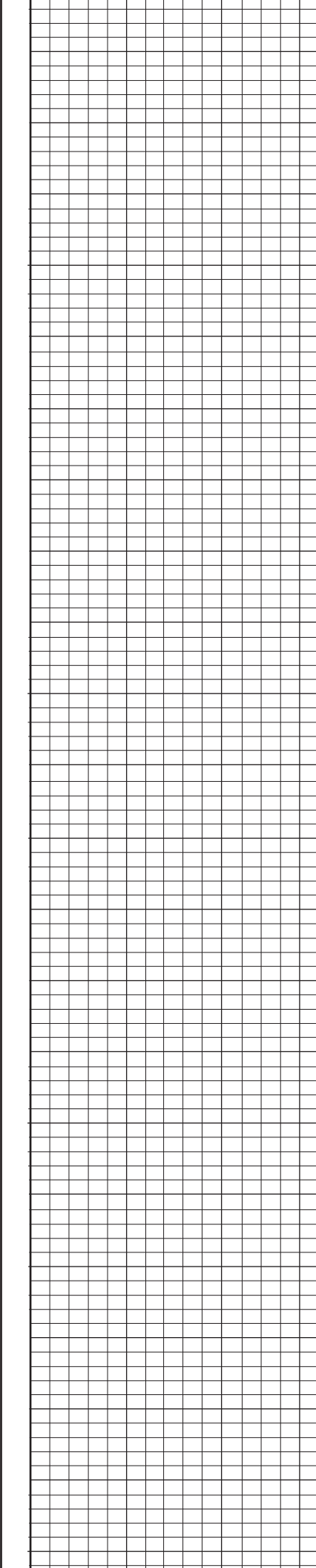
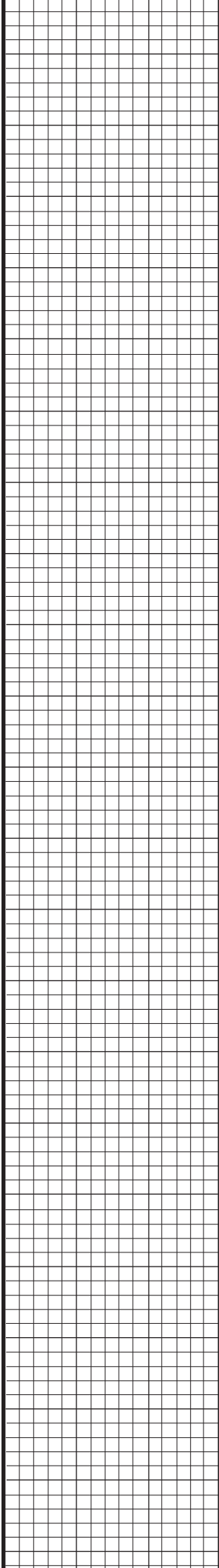
CFS

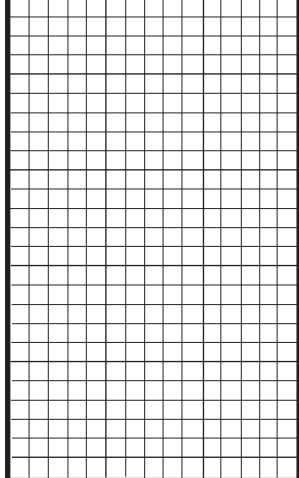
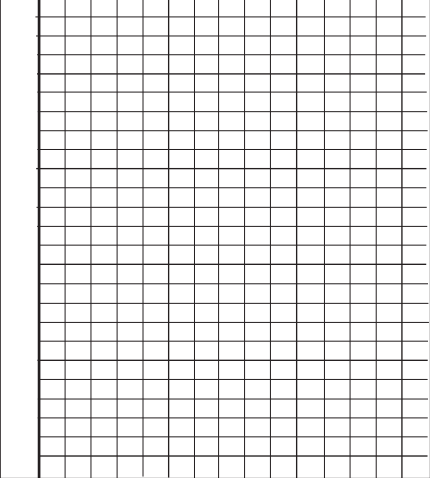
LS/Dolo - wht-tan, fn xtl, dense

RTD 4982'

Pipe Strap 4983.08  
Drillers TD 4982.40  
.68

5000



					
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P.O. Box 758  
Blackwell, OK 74631

<b>Customer:</b>	<b>N-10 OIL &amp; GAS, INC.</b>		<b>Well Name &amp; Number:</b>	<b>MEDECINE RIVER RANCH E#4</b>			
<b>Address:</b>			<b>Legals:</b>	22 - 34S - 11W		<b>Field Ticket #:</b>	<b>JO0622222</b>
<b>City, State, Zip:</b>			<b>County:</b>	BARBER		<b>Service District:</b>	Cushing
<b>Starting Date:</b>	Wednesday, June 22, 2022		<b>State:</b>	KANSAS		<b>Salesman:</b>	Kyle C.
<b>Product Code</b>	<b>Product Description</b>	<b>Unit of Measure</b>	<b>Quantity</b>	<b>List Price/Unit</b>	<b>Gross Amount</b>	<b>Item Discount</b>	<b>Net Amount</b>
503.02	LB-1 - Liquid Biocide	gal(s)	71	\$64.00	\$4,544.00	55.00%	\$2,044.80
503.55	LBC- 2 - SP-680	gal(s)	71	\$30.00	\$2,130.00	55.00%	\$958.50
516.05	BioNeat - Multifunctional Additive (Green)	gal(s)	71	\$215.00	\$15,265.00	55.00%	\$6,869.25
508.01	FRA-1 - Friction Reducer - (anionic)	gal(s)	114	\$70.00	\$7,980.00	55.00%	\$3,591.00
510.02	PB-1 - FR Breaker	gal(s)	57	\$36.00	\$2,052.00	55.00%	\$923.40
504.03	KCL-LC - Liquid KCL Equivalent	gal(s)	284	\$48.00	\$13,632.00	55.00%	\$6,134.40
433.03	PropCure XA Component	gal(s)	18	\$275.20	\$4,953.60	55.00%	\$2,229.12
433.04	PropCure XB Component	gal(s)	9	\$322.40	\$2,901.60	55.00%	\$1,305.72
514.03	MBE - Mutual Solvent	gal(s)	20	\$106.00	\$2,120.00	55.00%	\$954.00
432.11	40/70 Premium Sand - Local	lb(s)	122140	\$0.36	\$43,970.40	55.00%	\$19,786.68
432.13	16/30 Premium Northern White Sand	lb(s)	46440	\$0.65	\$30,186.00	55.00%	\$13,583.70
200.01	Equipment Mileage - Light Equipment	mile(s)	180	\$3.25	\$585.00	55.00%	\$263.25
200.02	Equipment Mileage - Heavy Equipment	mile(s)	1440	\$8.50	\$12,240.00	55.00%	\$5,508.00
418.07	61 - 70 bpm Blender - 1st 2 hrs.	unit(s)	1	\$5,000.00	\$5,000.00	55.00%	\$2,250.00
421.01	Blending Services	unit(s)	1	\$1,800.00	\$1,800.00	55.00%	\$810.00
410.07	Frac Pump Services - 61-70 BPM ( First 2 Hours )	per job	1	\$70,000.00	\$70,000.00	55.00%	\$31,500.00
435.03	Computer Data Accumulator/Satellite Relay Capable	unit(s)	1	\$2,500.00	\$2,500.00	55.00%	\$1,125.00
210.03	Chemical Delivery - First 4 hours	unit(s)	1	\$1,500.00	\$1,500.00	55.00%	\$675.00
421.03	Computerized Liquid Additives Unit	unit(s)	1	\$2,500.00	\$2,500.00	55.00%	\$1,125.00
436.01	Line Truck (Frac Line) & Well Connection Unit	unit(s)	1	\$2,500.00	\$2,500.00	55.00%	\$1,125.00
438.01	Discharge Manifold Trailer	unit(s)	1	\$2,500.00	\$2,500.00	55.00%	\$1,125.00
428.01	Sandmaster - Portable Storage & Delivery System	unit(s)	1	\$3,000.00	\$3,000.00	55.00%	\$1,350.00
401.01	Proppant Delivery Charge	ton mile	8280	\$2.20	\$18,216.00	55.00%	\$8,197.20
429.01	Proppant Pump Charge - 20/40 or Smaller	per cwt.	1380	\$0.55	\$759.00	55.00%	\$341.55
429.02	Proppant Pump Charge - 16/30 or Larger	per cwt.	460	\$0.90	\$414.00	55.00%	\$186.30
433.15	PropCure Service w/o Heat	ea	1	\$1,500.00	\$1,500.00	55.00%	\$675.00
441.02	QC Services with Fluid Tech - First 8 hours	per job	1	\$1,800.00	\$1,800.00	55.00%	\$810.00
700.09	Frac Valve Rental/Pick up Fee	job	1	\$1,000.00	\$1,000.00	0.00%	\$1,000.00
				<b>Gross:</b>	\$257,548.60	<b>Net:</b>	\$116,446.87
<b>Cost Estimate Before Applicable Local, County, and State Taxes Are Applied:</b>				<b>Applicable Local, County, and State Taxes (Office Use Only):</b>			
				<b>Total Invoiced Price (Office Use Only):</b>			
<b>Customer Representative:</b>			Dustin Newberry				
<b>SPS Representative:</b>			Jack O'Kelley				
<b>Date:</b>			6/22/2022				
<small>SERVICE ORDER: I AGREE THAT SERVICE ACCORDANCE WITH TERMS AND CONDITIONS (INCLUDING INDEMNIFICATION OBLIGATIONS) LISTED HERE OR IN THE CUSTOMER CONTRACT FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.</small>							
<b>CUSTOMER AUTHORIZED AGENT</b>							

TERMS: Cash in advance unless GPS, LLC 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 may 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 if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to affect the collection of said account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with GPS, LLC becomes delinquent, GPS, LLC has the right to revoke any and all discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount will become immediately due and owing and subject to collection.



<b>SPS</b>	Customer:	<b>N-10 OIL &amp; GAS</b>			SR No.:	<b>JO0622222</b>			Date:	<b>6/22/2022</b>		
	Well Name:	<b>MEDECINE RIVER RANCH E#4</b>			Field:	<b>OIL</b>			Well Type:	<b>PRODUCER</b>		
	County:	<b>BARBER</b>	State:	<b>KANSAS</b>	Stage:	<b>1</b>			Max PSI:	<b>3400</b>		
	Type of Job:	<b>SLICK WATER FRAC</b>			Treater:	<b>Jack O'Kelley</b>			Formation:	<b>MISSISSIPPI</b>		

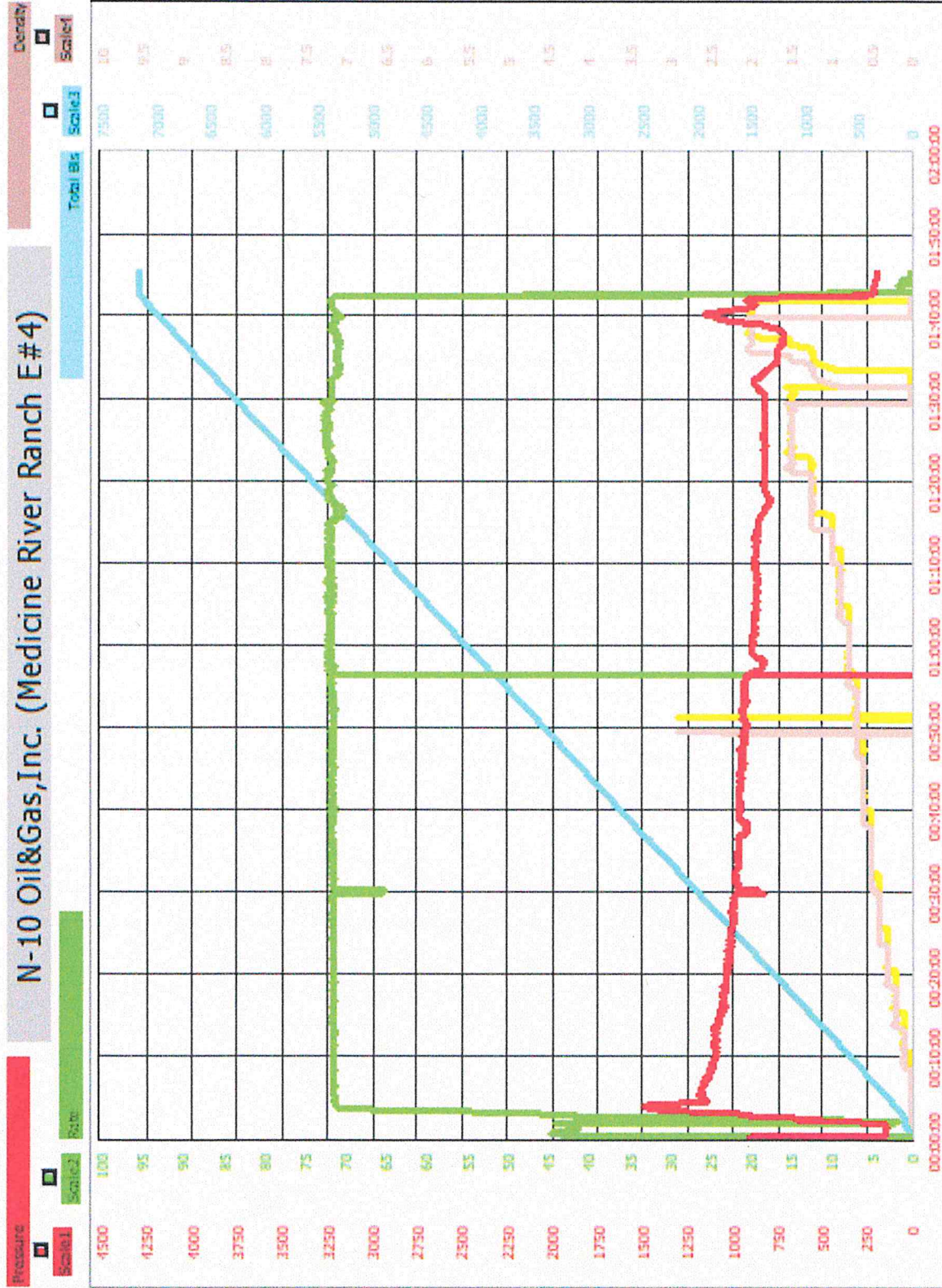
EVENT # Substage	Event/Start Date & Time (In 24 Hr Format)	Event Type	Event Description	Wellhead Pressure	Clean Volume	Fluid	Proppant	Prop Conc.	Prop Volume	Slurry Volume	CLEAN RATE	SLURRY RATE	TOTAL
1	5:16:00 PM	PT	PSI TEST	3,500									
2	5:17:02 PM	OWH	OPEN WELL	0									
3	5:18:00 PM	PAD	PAD	1,450	467.6	SLK WTR				468.7	71.9	71.4	469
4	5:25:20 PM	SAND	0.1# 40/70	1,120	354.2	SLK WTR	40/70	0.10	1,520	353.1	71.6	71.4	822
5	5:30:15 PM	SAND	0.2# 40/70	1,090	354.9	SLK WTR	40/70	0.20	3,050	355.5	71.3	71.5	1,177
6	5:35:11 PM	SAND	0.3# 40/70	1,050	357.2	SLK WTR	40/70	0.30	4,570	359.4	71.0	71.4	1,537
7	5:40:11 PM	SAND	0.4# 40/70	1,010	454.4	SLK WTR	40/70	0.40	7,730	459.1	64.6	65.3	1,996
8	5:46:35 PM	SAND	0.5# 40/70	860	558.7	SLK WTR	40/70	0.50	11,810	567.5	70.5	71.6	2,563
9	5:54:28 PM	SAND	0.6# 40/70	920	574.1	SLK WTR	40/70	0.60	14,510	585.6	70.1	71.6	3,149
10	6:02:36 PM	SAND	0.7# 40/70	950	574.9	SLK WTR	40/70	0.70	16,720	588.9	69.8	71.6	3,738
11	6:12:26 PM	SAND	0.8# 40/70	930	554.6	SLK WTR	40/70	0.80	19,300	570.7	69.6	71.7	4,308
12	6:18:57 PM	SAND	0.9# 40/70	880	478.3	SLK WTR	40/70	0.90	18,060	494.5	69.5	71.8	4,803
13	6:25:47 PM	SAND	1.0# 40/70	880	286.2	SLK WTR	40/70	1.00	12,030	297.2	69.4	71.8	5,100
14	6:29:54 PM	SAND	1.25# 40/70	870	469.3	SLK WTR	40/70	1.25	24,570	492.8	68.7	72.3	5,593
15	6:36:44 PM	SAND	1.50 40/70	820	574.0	SLK WTR	40/70	1.50	36,080	609.2	68.3	72.4	6,202
16	6:45:07 PM	PAD	SPACER	820	144.3	SLK WTR				143.6	72.2	71.7	6,346
17	6:47:06 PM	SAND	1.25# 16/30	870	191.4	SLK WTR	16/30	1.25	9,380	200.0	67.5	70.7	6,546
18	6:49:54 PM	SAND	1.50# 16/30	760	68.7	SLK WTR	16/30	1.50	4,300	72.9	66.9	71.1	6,619
19	6:50:55 PM	SAND	2.0# 16/30	750	144.0	SLK WTR	16/30	2.00	12,040	155.9	65.5	71.1	6,774
20	6:53:06 PM	SAND	2.0# 16/30RCS	720	142.6	SLK WTR	16/30RCS	2.00	11,950	154.6	65.8	70.4	6,929
21	6:55:15 PM	PAD	CUT SAND	1,100	26.7	SLK WTR				26.8	71.1	70.7	6,956
22	6:55:38 PM	PAD	FLUSH	1,150	170.3	SLK WTR				168.1	71.1	70.7	7,124
			SHUTDOWN										

FLUID ADDITIVES			PROPPANT DESCRIPTION			PROPPANT VOLUMES				Rate and PSI		FLUID TYPE AND VOLUME		
Chemical Name	Design	Used	PROP	Design	Used	Conc.	Size	lbs	BBLs	Ave Rate	71.1	Fluid type	Design	Used
LB-1	71	71	40/70	138,000	122,140					Max Rate	72.4	SLK WTR	6,750.0	6,946.4
LBC-2	71	71	16/30	34,000	34,440					Pad Rate	71.4	0		
BIONEAT	71	71	16/30RCS	12,000	12,000					Sand Rate	71.1	0		
FRA-1	114	116	0							Flush Rate	70.7	0		
PB-1	57	58	0							Ave PSI	950.0	0		
KCL-LC	284	291	0							Max PSI	1,450.0	0		
PROPCURE-XA	18	18	0		168,580					PSI Pad	1,450.0	0		
PROPCURE-XB	9	9	SHUT-IN PRESSURES							PSI Sand	900.0	0		
MBE	20	20	ISIP	210						PSI Flush	1,150.0	0		
0			5 Min	190						Break Rate	70.0	0		
0			10 Min	140						Break Psi	1,510.0	0	PSI	BBLs
0			15 Min	120						F. G.	0.48	0		

CASING & TUBULAR DATA							Comments						
Tubular	Size	Wt	Grade	Top	Bottom	Capacity							
Tubing													
Casing	5.5	14	J55	0	4,643	111	<b>CREW ON LOCATION</b>						
							JACK, JONES, ADAM, ERIK, AARON, DONALD, DYLAN, JUSTIN, TRENT, TYLER, KP, ERIC Z, BRAD TROY, LAMARK, MIKE, GARY, DEVON, CHARLEY, TREVOR, RON T, JEREMY, BRANDON						



# N-10 Oil&Gas,Inc. (Medicine River Ranch E#4)





C:\Users\SPS\Desktop\well\_bore\N-10 Oil&Gas, Inc. (Medicine River Ranch E#4).job  
 Wed Jun 22, 2022 TVD 4643.00 Vrt Vol 110.514 Tot Lng 4643.02 Tot Vol 110.515 Sur Vol 25.00

----- LEGEND -----  
 S = Start F = Formation E = Event

TIME	PPA	--- PRES ---		--- CLEAN ---		--- DIRTY ---		SAND TOTAL	PPA	--- STAGE ---		SAND
		STP	HYD P	BPM	TOTAL	BPM	TOTAL			CLEAN	DIRTY	
17:17:02 S	0.00	900	NaN	0.00	0	0.00	0	0.0	0.00	0.0	0.0	0.00
17:20:42 F	0.00	1460	2013	71.22	134	70.95	136	0.0	0.00	467.6	468.7	0.00
17:25:20 S	0.10	1120	2013	71.91	468	71.40	469	0.0	0.00	354.2	353.1	1.52
17:27:13 F	0.10	1090	2027	71.65	604	71.47	605	0.6	0.10	354.9	355.5	3.05
17:30:15 S	0.20	1090	2028	71.63	822	71.43	822	1.5	0.20	357.2	359.4	4.57
17:32:08 F	0.20	1070	2043	71.32	958	71.50	958	2.7	0.40	454.4	459.1	7.73
17:35:11 S	0.30	1050	2043	71.33	1177	71.50	1177	4.6	0.50	558.7	567.5	11.81
17:37:05 F	0.30	1020	2057	71.05	1312	71.54	1313	6.3	0.60	574.1	585.6	14.51
17:40:11 S	0.40	1010	2057	71.03	1534	71.43	1537	9.1	0.70	574.9	588.9	16.72
17:42:04 F	0.40	1000	2072	70.73	1668	71.45	1673	11.4	0.80	108.1	111.2	-59.91
17:46:35 S	0.50	860	2072	64.61	1988	65.30	1996	16.9	0.00	0.8	0.9	64.19
17:48:29 F	0.50	990	2085	70.41	2122	71.58	2131	19.7	0.80	446.5	459.5	79.16
17:54:28 S	0.60	920	2086	70.52	2547	71.60	2563	28.7	0.90	478.3	494.5	18.06
17:56:22 F	0.60	960	2100	70.31	2680	71.60	2699	32.0	1.00	286.2	297.2	12.03
18:02:36 S	0.70	950	2101	70.15	3121	71.55	3149	43.2	1.25	469.3	492.8	24.57
18:04:29 F	0.70	940	2114	69.83	3254	71.55	3285	47.1	1.50	574.0	609.2	36.08
18:10:47 S	0.80	930	2114	69.82	3696	71.62	3738	59.9	0.00	144.3	143.6	0.07
18:12:26 S	0.00	0	2126	0.00	3804	0.00	3849	0.0	1.25	191.4	200.0	9.38
18:12:36 S	0.80	910	NaN	69.73	3805	71.76	3850	64.2	1.50	68.7	72.9	4.30
18:12:56 F	0.80	880	NaN	69.62	3828	71.61	3873	64.9	2.00	142.6	154.6	11.95
18:14:28 F	0.80	830	NaN	69.82	3936	71.88	3985	68.6	0.00	26.7	26.8	0.10
18:18:57 S	0.90	880	2129	69.61	4251	71.71	4308	79.2	0.80	446.5	459.5	79.16
18:20:49 F	0.90	870	2142	69.57	4382	71.98	4444	84.1	0.90	478.3	494.5	18.06
18:25:47 S	1.00	880	2143	69.47	4729	71.78	4803	97.2	1.00	286.2	297.2	12.03
18:27:40 F	1.00	870	2156	69.33	4860	71.86	4939	102.7	1.25	469.3	492.8	24.57
18:29:54 S	1.25	870	2156	69.36	5015	71.78	5100	109.2	1.50	574.0	609.2	36.08
18:31:47 F	1.25	840	2189	67.66	5145	71.11	5236	116.0	0.00	144.3	143.6	0.07
18:36:44 S	1.50	820	2191	68.72	5484	72.30	5593	133.8	1.25	191.4	200.0	9.38
18:38:37 F	1.50	830	2223	67.68	5613	71.74	5729	141.9	1.50	68.7	72.9	4.30
18:45:07 S	0.00	820	2223	68.30	6058	72.37	6202	169.9	2.00	142.6	154.6	11.95
18:47:00 F	0.00	870	2016	72.20	6195	71.74	6338	170.0	1.50	68.7	72.9	4.30
18:47:06 S	1.25	870	2013	72.20	6203	71.72	6346	170.0	2.00	144.0	155.9	12.04
18:48:59 F	1.25	810	2169	67.74	6333	71.14	6481	176.1	1.25	191.4	200.0	9.38
18:49:54 S	1.50	760	2188	67.46	6394	70.65	6546	179.4	1.50	68.7	72.9	4.30
18:50:55 S	2.00	750	2203	66.94	6463	71.10	6619	183.6	2.00	142.6	154.6	11.95
18:51:48 F	1.50	740	2242	65.33	6521	70.98	6682	188.5	0.00	26.7	26.8	0.10
18:52:49 F	2.00	730	2287	65.56	6588	70.87	6754	194.1	0.00	144.0	155.9	12.04
18:53:06 S	2.00	720	2290	65.46	6607	71.13	6774	195.7	2.00	142.6	154.6	11.95
18:54:59 F	2.00	1040	2288	65.68	6732	71.47	6910	206.2	0.00	26.7	26.8	0.10
18:55:15 S	0.00	1100	2288	65.78	6749	70.39	6929	207.6	0.00	144.0	155.9	12.04
18:55:38 S	0.00	1150	2288	71.12	6776	70.66	6956	207.7	0.00	142.6	154.6	11.95

