

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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Form	ACO1 - Well Completion
Operator	Prater Oil & Gas Operations, Inc.
Well Name	STUDER 6
Doc ID	1699388

Tops

Name	Top	Datum
Heebner	3518	-1639
Douglas Shale	3558	-1679
BR. Lime	3696	-1817
Lansing	3711	-1832
BKC	4060	-2181
Mississippi	4156	-2277
Viola	4278	-2399
Simpson Shale	4365	-2486
Simpson Sand	4372	-2493
LTD	4446	-2567



# MUD LOG

## WellSight Systems

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

Well Name: Studer #6  
 API: 15-151-22-563-00-00  
 Location: SE NW SW  
 License Number: 31000  
 Spud Date: February 6, 2023  
 Surface Coordinates: 1650' FSL & 4290' FEL Section 4-T2S-R12W  
 Region: Pratt County, Kansas  
 Drilling Completed: February 13, 2023

**Bottom Hole Vertical Hole**  
 Ground Elevation (ft): 1866  
 Logged Interval (ft): 3400 To: 4445  
 Formation: Simpson Shale  
 Type of Drilling Fluid: Chemical Mud  
 K.B. Elevation (ft): 1879  
 Total Depth (ft): 4445

### OPERATOR

Company: Prater Oil & Gas Operations, Inc  
 Address: 10356 Bluestem Blvd  
 Pratt, Kansas 67124

### GEOLOGIST

Name: Scott Alberg  
 Company: Alberg Petroleum, LLC  
 Address: 609 Meadowlark Lane  
 Pratt, Kansas 67124

**LOG TOPS**

HEEBNER	3518(-1639)
DOUGLAS SHALE	3550(-1679)
BR. LIME	3696(-1817)
LANSING	3711(-1832)
BKC	4060(-2181)
MISSISSIPPI	4156(-2274)
VIOLA	4278(-2399)
SIMPSON SHALE	4365(-2486)
SIMPSON SAND	4372(-2493)
LTD	4446(-2567)

### DSTs

**DST #1 MISSISSIPPIAN, Test Interval 4117' to 4199'**  
 Times 30-45-45-60  
 1st Opening - Weak Blow, Built to 4.7", Died off to 1.03"  
 2nd Opening - Weak Blow, Built to 10.11", Died off to 5.98"  
 ISI - No Blow Back; FSI - No Blow Back  
 Recovery: 50' GIP, 10' SGCM (5% G, 95% M)  
 Pressures:  
 IHP - 2246#, FHP 2084#  
 IFP 91-69#, FFP 57-71#  
 ISIP 182#, FSP 291#

**DST #2 SIMPSON SAND Test Interval 4356' to 4400'**  
 Times 30-45-45-60  
 1st Opening - Weak Blow, Built to 2.83", No Blow Back  
 2nd Opening - Weak Blow, Built to 2.34", No Blow Back  
 Recovery: 70' WCM (26% W, 74% M) Chlorides 23,000ppm  
 Pressures:  
 IHP 2411# FHP 2190#  
 IFP 38-57# FFP 64-84#  
 ISIP 1293# FSP 1271#

### Comments

Surface Casing: Set 13 3/8" pipe at 262' with 375 sx 60/40 Poz 2% Gel 3% CC, 1/4# FS. Plug down at 6:00 AM on 02/07/2023. Cement circulated to surface.  
 Production: None  
 Deviation Surveys: .50 - 265'; .75" @ 1,011'; Missrun @ 4199'; Missrun @ 4400'; 7 degrees at 4445'.  
 Pipe Strap At 4199' - .94' long to board.  
 Contractor Bit Record: 1-17 1/2" HTC RR/RT Out at 265'. 2- 12 1/4" JZ Out at 1011'. 3 - 7 7/8" PDC-out at 4445'

Mud Company: Mud Co/Service Mud  
 Brad Bortz - Representative  
 Drill with Native Mud and PreMix to 2989' and Displace System with Chemical Mud

### CREWS

Sterling Drilling Rig #5  
 Tool Pusher - Lannie Saloga  
 Days - Ivan Chavez  
 Evening - Jose Munoz  
 Morning - Jorge Gutierrez

**ROCK TYPES**

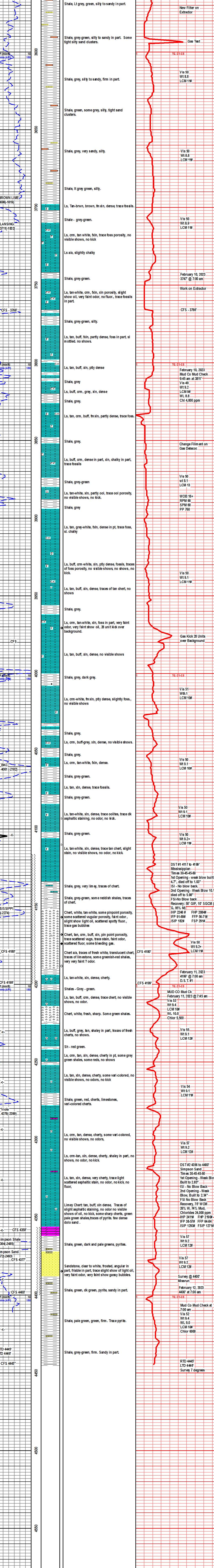
Anhy	Clyst	Gyp	Mrst	Shly
Bent	Coal	Igne	Salt	Slst
Brec	Congl	Lnst	Shale	Ss
Chf	Dol	Meta	Schol	Till

**ACCESSORIES**

MINERAL	Gyp	FOSSIL	Ostra	Slststrg
Anhy	Hvymn	Algae	Pelec	Ssstrg
Arggrn	Kaol	Amph	Pellet	
Arg	Marl	Belm	Pisolite	
Bent	Minxl	Bioclst	Plant	
Bit	Nodule	Brach	Strom	
Brcfrag	Phos	Bryozoa		
Calc	Pyr	Cephal	STRINGER	
Carb	Salt	Coral	Anhy	
Chhtk	Sandy	Crin	Arg	
Chtt	Silt	Echin	Bent	
Dol	Sil	Fish	Coal	
Feldspar	Sulphur	Foram	Col	
Ferropel	Tuff	Fossil	Gyp	
Ferr		Gastro	Ls	
Glau		Oolite	Mrst	

**OTHER SYMBOLS**

POROSITY	Vuggy	ROUNDING	Spotted	EVENT
E Earthy	Well	Rounded	Quies	Rft
F Fenest	Moderate	Subrnd	Dead	Sidewall
Fracture	Poor	Subang		
Inter		Angular	INTERVAL	
Moldic			Core	
Organic		OIL SHOW	Dst	
Pinpoint		Even		



RTD 4445' LTD 4446' CFS 4445'







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pratere Oil & Gas

**4-27S-12W Pratt**

10356 Bluestem Blvd  
Pratt, KS 67124

**Studer 6**

Job Ticket: 69293

**DST#: 1**

ATTN: Scott Alberg

Test Start: 2023.02.11 @ 07:50:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	50' GIP	0.000
10.00	SGCM 5%G 95%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

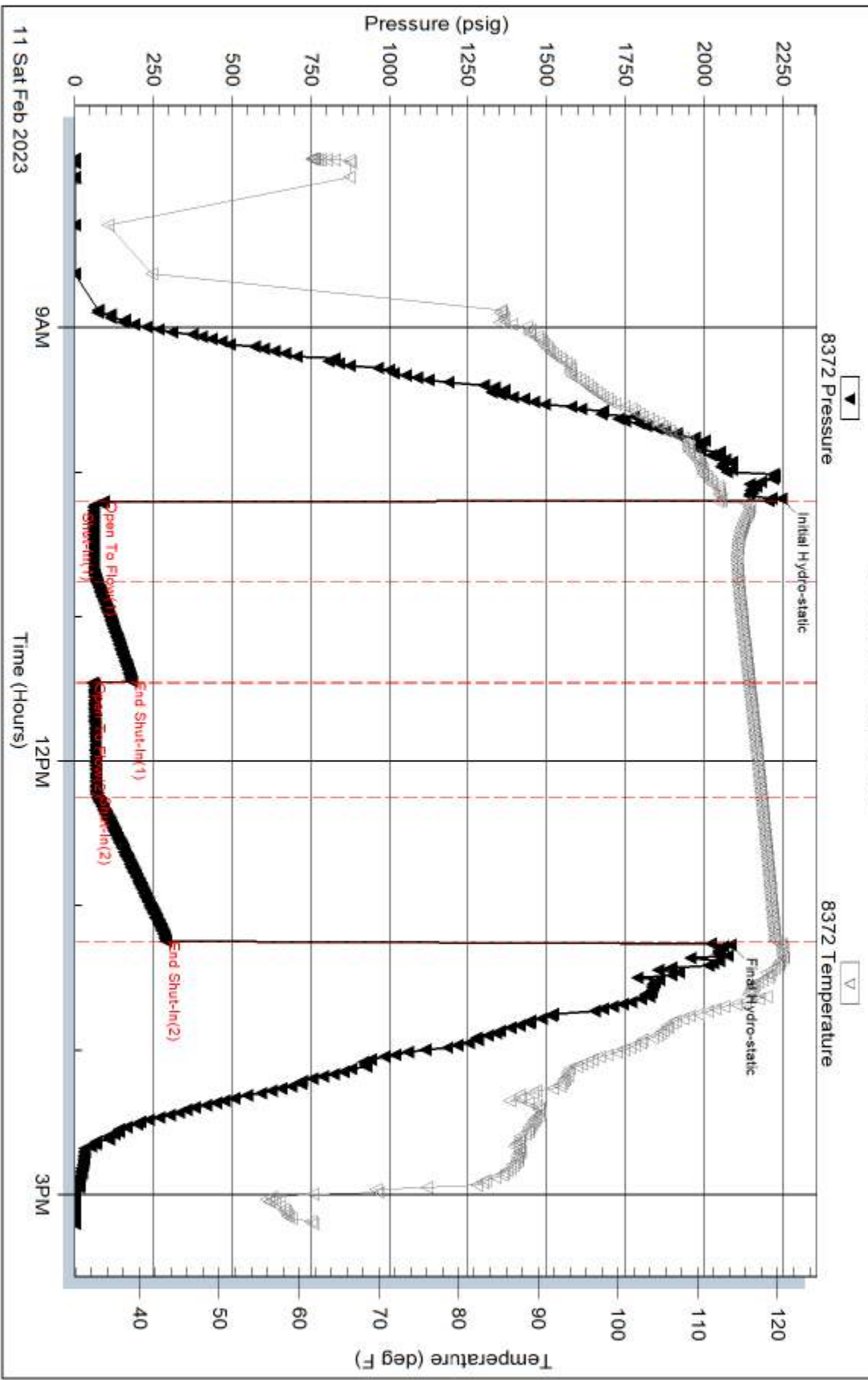
Inside

Pratere Oil & Gas

Studer 6

DST Test Number: 1

### Pressure vs. Time

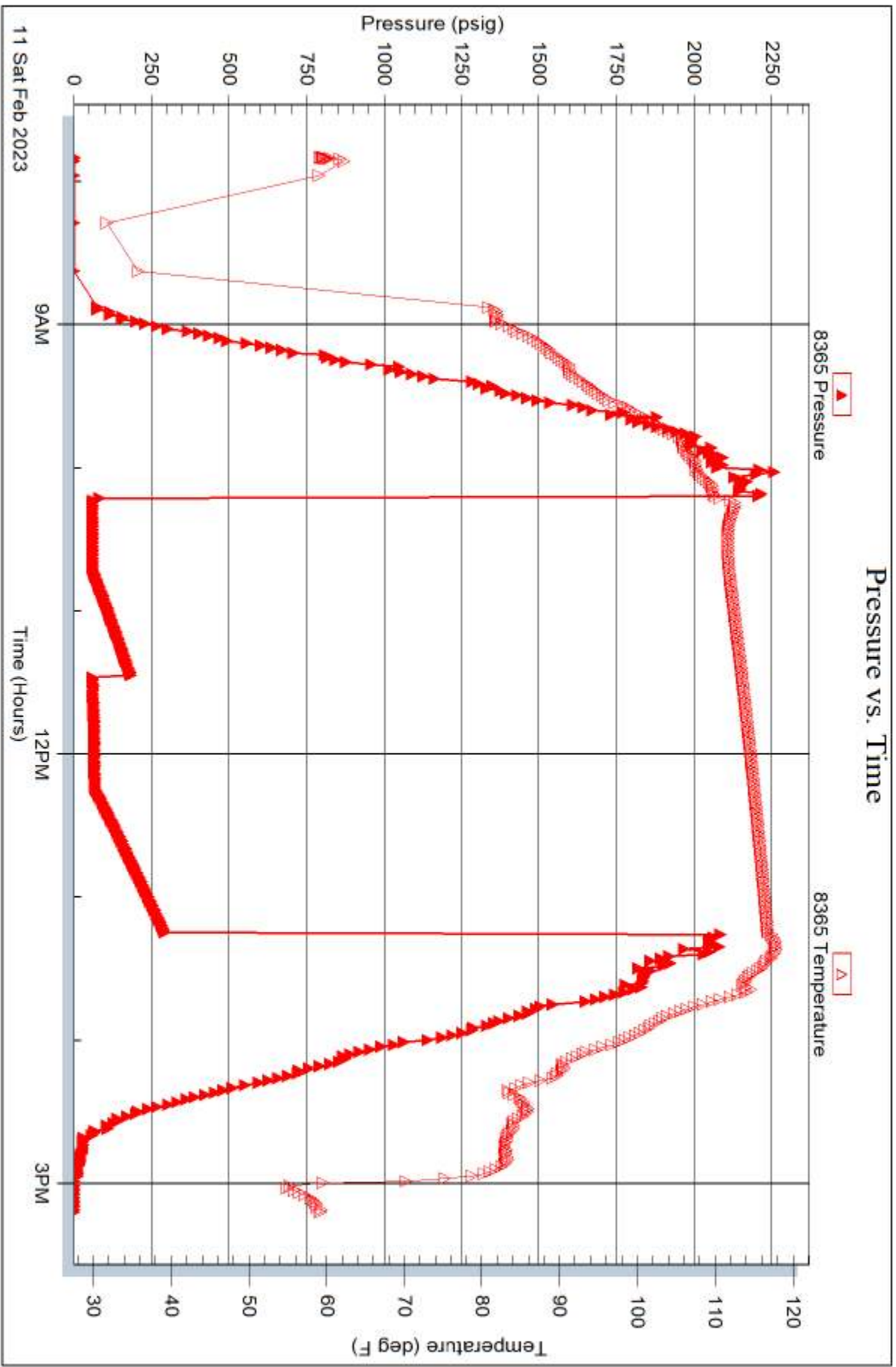


Serial #: 8365

Outside Prater Oil & Gas

Sluder 6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69293

Printed: 2023.02.11 @ 16:52:44







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pratere Oil & Gas

**4-27S-12W Pratt**

10356 Bluestem Blvd  
Pratt, KS 67124

**Studer 6**

Job Ticket: 69294

**DST#: 2**

ATTN: Scott Alberg

Test Start: 2023.02.12 @ 10:06:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	WCM 26%W 74%M	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .38 @ 56 degrees

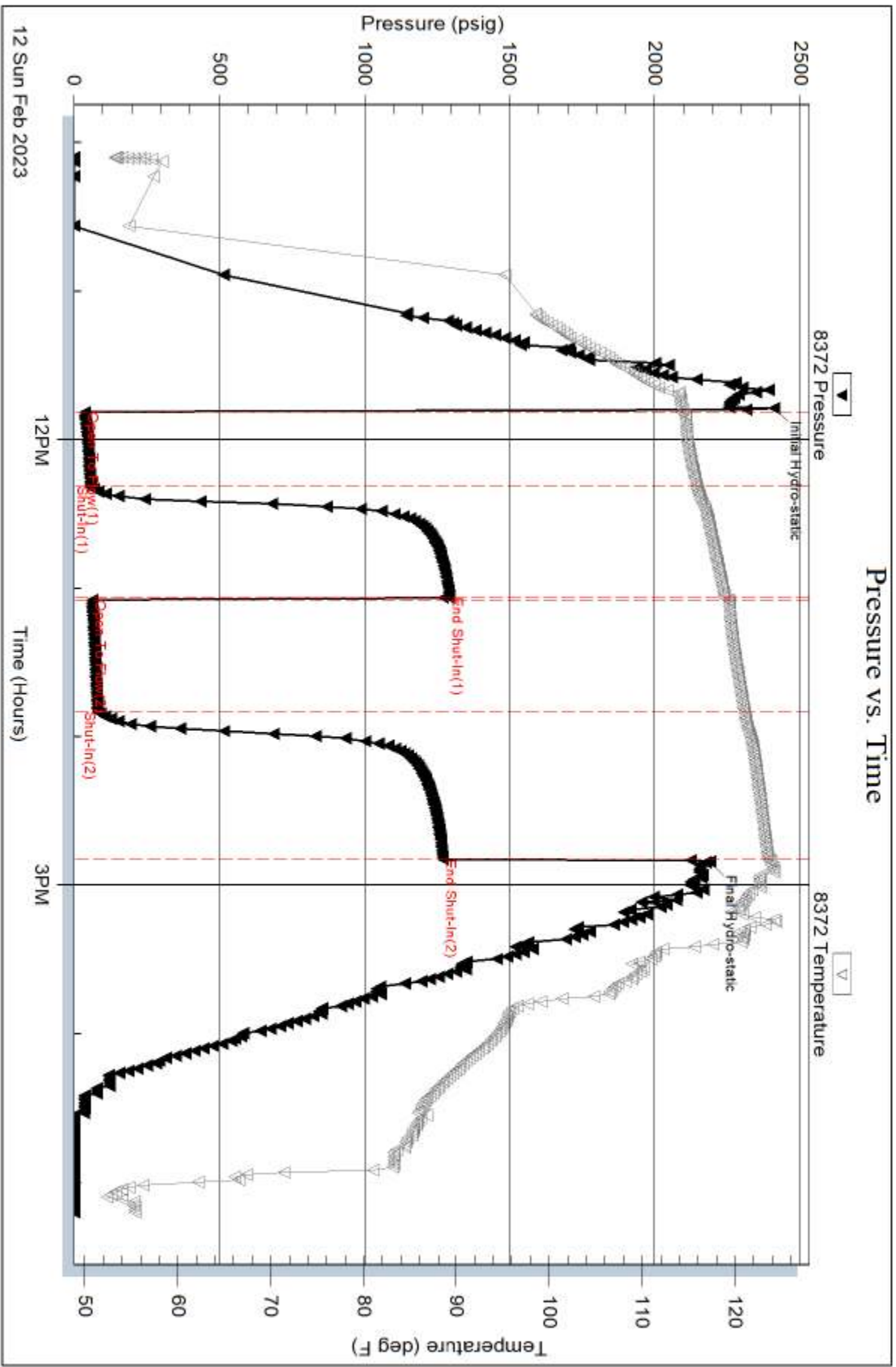
Serial #: 8372

Inside

Pratere Oil & Gas

Sluder 6

DST Test Number: 2

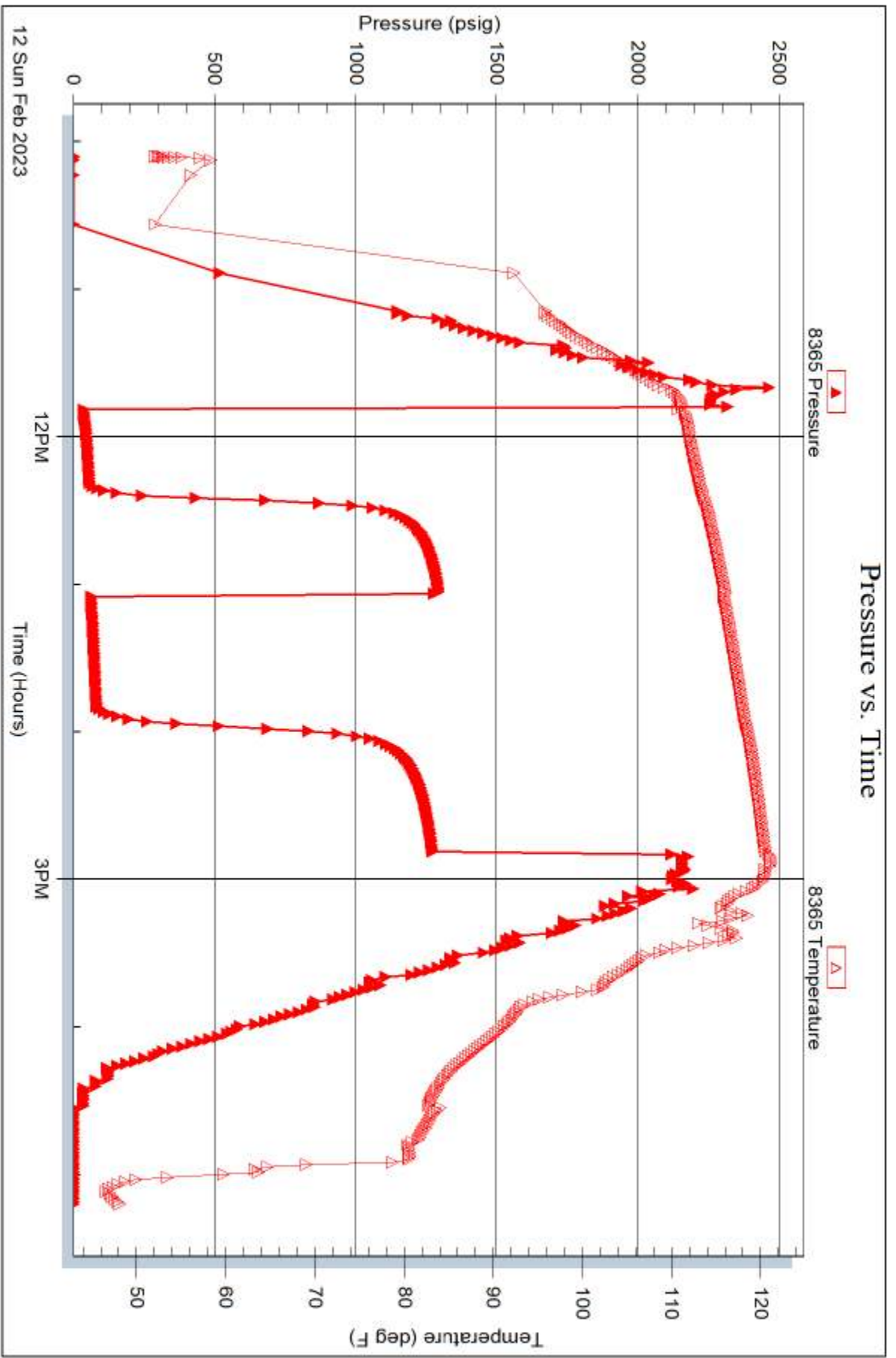


Serial #: 8365

Outside Prater Oil & Gas

Sluder 6

DST Test Number: 2

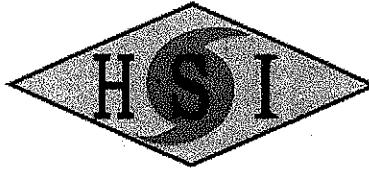


12 Sun Feb 2023

Trilobite Testing, Inc

Ref. No: 69294

Printed: 2023.02.12 @ 19:07:10



**HURRICANE SERVICES INC**

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

Customer:  
PRATER OIL & GAS OPERATIONS IN  
10356 BLUESTEM BLVD  
PRATT, KS 67124

Invoice Date: 2/7/2023  
Invoice #: 0366371  
Lease Name: ♂ Studer #6  
Well #: 6 (New)  
County: Pratt, Ks  
Job Number: WP3912  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Conductor	0.000	0.000	0.00
Cement Pozmix 60/40	375.000	15.000	5,625.00
Calcium Chloride	969.000	0.750	726.75
Cello Flake	94.000	1.750	164.50
Light Eq Mileage	10.000	2.000	20.00
Heavy Eq Mileage	20.000	4.000	80.00
Ton Mileage Minimum	1.000	300.000	300.00
Cement Blending & Mixing	375.000	1.400	525.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Data Acquisition	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

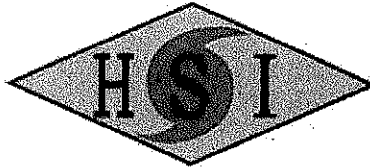
**Total** 8,966.25

**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!**





**HURRICANE SERVICES INC**

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

Customer:  
PRATER OIL & GAS OPERATIONS IN  
10356 BLUESTEM BLVD  
PRATT, KS 67124

Invoice Date: 2/13/2023  
Invoice #: 0366577  
Lease Name: Studer  
Well #: 6  
County: Pratt, Ks  
Job Number: WP3946  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	215.000	14.000	3,010.00
Light Eq Mileage	10.000	2.000	20.00
Heavy Eq Mileage	20.000	4.000	80.00
Ton Mileage Minimum	1.000	300.000	300.00
Cement Blending & Mixing	215.000	1.400	301.00
Depth Charge 501'-1000'	1.000	1,250.000	1,250.00
Service Supervisor	1.000	275.000	275.00

Net Invoice	5,236.00
Sales Tax:	315.25
<b>Total</b>	<b>5,551.25</b>

**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!**

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



Customer	Prater Oil Operations	Lease & Well #	Studer 6	Date	2/13/2023
Service District	Pratt Kansas	County & State	Pratt, Kansas	Legals S/T/R	4-27s-12w
Job Type	Pta	<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			

916	M Brungardt	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176/522	R Osborn	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
526/256	J Trivono	<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"/> PRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

**Comments**

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
ep025	H-Plug A	sack	215.00	\$3,010.00
md015	Light Equipment Mileage	mi	10.00	\$20.00
md040	Heavy Equipment Mileage	mi	20.00	\$80.00
md025	Ton Mileage - Minimum	each	1.00	\$300.00
ep005	Cement Blending & Mixing Service	sack	215.00	\$301.00
ep011	Depth Charge: 501'-1000'	job	1.00	\$1,250.00
ms01	Service Supervisor	day	1.00	\$275.00

Customer Section: <input type="checkbox"/> Following a sale how would you rate Hurricane Services Inc.:		Total Taxable	\$ -	Tax Rate:		Net:	\$5,236.00
Based on this job, how likely is it you would recommend HSI to a colleague?		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:	\$ 5,236.00
<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 Unlikely <span style="float: right;">Extremely Likely</span>		HSI Representative: <i>Mark Brungardt</i>					

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1.25% 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:	Prater Oil Operations	Well:	Studer 6	Ticket:	WP 3946
City, State:	Natrona Kansas	County:	Pratt, Kansas	Date:	2/13/2023
Field Rep:	Lanny Saloga	S-T-R:	4-27s-12w	Service:	Pta

**Downhole Information**

Hole Size:	7 7/8 in
Hole Depth:	720 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	5.0 bbls

**Calculated Slurry - Lead**

Blend:	H-Plug
Weight:	13.7 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	54.7 bbls
Total Sacks:	215 sx

**Calculated Slurry - Tail**

Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
1:45 PM			-	-	on location job and safety
1:50 PM			-	-	spot trucks and rig up
2:43 PM			-	-	1st plug 720 ft
	4.0	150.0	3.0	3.0	fresh water
	4.0	150.0	12.7	15.7	mix 50 sacks cement
	4.0	150.0	5.0	20.7	displacement
3:15 PM			-	-	2nd plug 300 ft
	4.0	100.0	3.0	3.0	fresh water
	4.0	100.0	19.0		mix 75 sacks cement
	4.0	100.0	0.3		displacement
3:30 PM	2.0	-	10.0		3rd plug 60 ft
					mix 40 sacks cement
4:05 PM	2.0	-	7.5		rat hole mix 30 sacks cement
	2.0	-	5.0		mouse hole mix 20 sacks cement

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	R Osborn	176/522	3.3 bpm	83 psi	86 bbls
Bulk #1:	J Triveno	526/256			
Bulk #2:					