

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Prater Oil & Gas Operations, Inc.
Well Name	STUDER 5
Doc ID	1657746

All Electric Logs Run

Dual Induction Log
Microsistivity Log
Sonic Cement Bond Log
Compensated Density/ Neutron Log

Form	ACO1 - Well Completion
Operator	Prater Oil & Gas Operations, Inc.
Well Name	STUDER 5
Doc ID	1657746

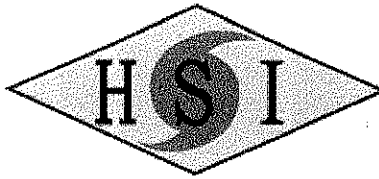
Tops

Name	Top	Datum
Heebner	3509	-1642
Douglas Shale	3550	-1683
Lansing	3706	-1839
BKC	4056	-2189
Mississippian	4144	-2277
Viola	4314	-2447
Simpson Shale	4360	-2493
Simpson Sand	4364	-2497
Arbuckle	4442	-2575

Form	ACO1 - Well Completion
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Well Name	STUDER 5
Doc ID	1657746

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
1	4144	4150			Perforate Mississippian
1	4154	4158			Acidize: PPI job. 2,500 gal 7.5% MIRA
1	4160	4164			Hybrid Frac. 2,843 BBL, 105,107 lb Sand
1	4172	4176			
1	4182	4186			
1	4188	4192			
1	4200	4204			



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: 5/9/2022
Invoice #: 0360703
Lease Name: Studer #5
Well #: 5 (New)
County: Pratt, Ks
Job Number: WP2764
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	125.000	32.200	4,025.00
H-Plug	50.000	12.880	644.00
Cello Flake	31.000	1.610	49.91
5 1/2" Floatshoe-Flapper AFU	1.000	345.000	345.00
5 1/2" LD Plug & Baffle	1.000	322.000	322.00
5 1/2" Turbolizers	10.000	115.000	1,150.00
Mud flush	1,000.000	0.920	920.00
Light Eq Mileage	10.000	1.840	18.40
Heavy Eq Mileage	20.000	3.680	73.60
Ton Mileage Minimum	1.000	276.000	276.00
Cement Blending & Mixing	175.000	1.288	225.40
Depth Charge 4001'-5000'	1.000	2,300.000	2,300.00
Cement Data Acquisition	1.000	230.000	230.00
Cement Plug Container	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00
Cement Pump-Hourly Service	3.000	161.000	483.00

Total 11,567.31

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% 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	PRATER OIL & GAS	Lease & Well #	STUDER 5	Date	5/9/2022
Service District	PRATT	County & State	PRATT KS	Legals S/T/R	4-27S-12W
Job Type	LONGSTRING	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			

912	MATTAL	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176/521	OSBORN	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
526/256	TREVINO	<input checked="" type="checkbox"/> Safety Footwear	<input 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 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
CP030	H-Long	sack	125.00	\$4,025.00
CP055	H-Plug	sack	50.00	\$644.00
CP120	Cello-flake	lb	31.00	\$49.91
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$345.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$322.00
FE135	5 1/2" Turbolizer	ea	10.00	\$1,150.00
CP170	Mud Flush	gal	1,000.00	\$920.00
M015	Light Equipment Mileage	mi	10.00	\$18.40
M010	Heavy Equipment Mileage	mi	20.00	\$73.60
M025	Ton Mileage - Minimum	each	1.00	\$276.00
C060	Cement Blending & Mixing Service	sack	175.00	\$225.40
D015	Depth Charge: 400'-5000'	job	1.00	\$2,300.00
C035	Cement Data Acquisition	job	1.00	\$230.00
C050	Cement Plug Container	job	1.00	\$230.00
R001	Service Supervisor	day	1.00	\$275.00
C025	Cement Pump - Hourly Service	hr	3.00	\$483.00

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?

1 2 3 4 5 6 7 8 9 10 *Strongly Likely*

Total Taxable	\$ -	Tax Rate:		Net:	\$11,567.31
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:	\$ 11,567.31

HSI Representative: *Mike Mattal*

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 *Tom R...*
 CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer:	PRATER OIL & GAS	Well:	STUDER 5	Ticket:	WP2764
City, State:	PRATT KS	County:	PRATT KS	Date:	5/9/2022
Field Rep:	RON PRATER	S.T.R.:	4-27S-12W	Service:	LONGDRING

Downhole Information	
Hole Size:	in
Hole Depth:	4475 ft
Casing Size:	in
Casing Depth:	4478.09 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	105.6 bbls

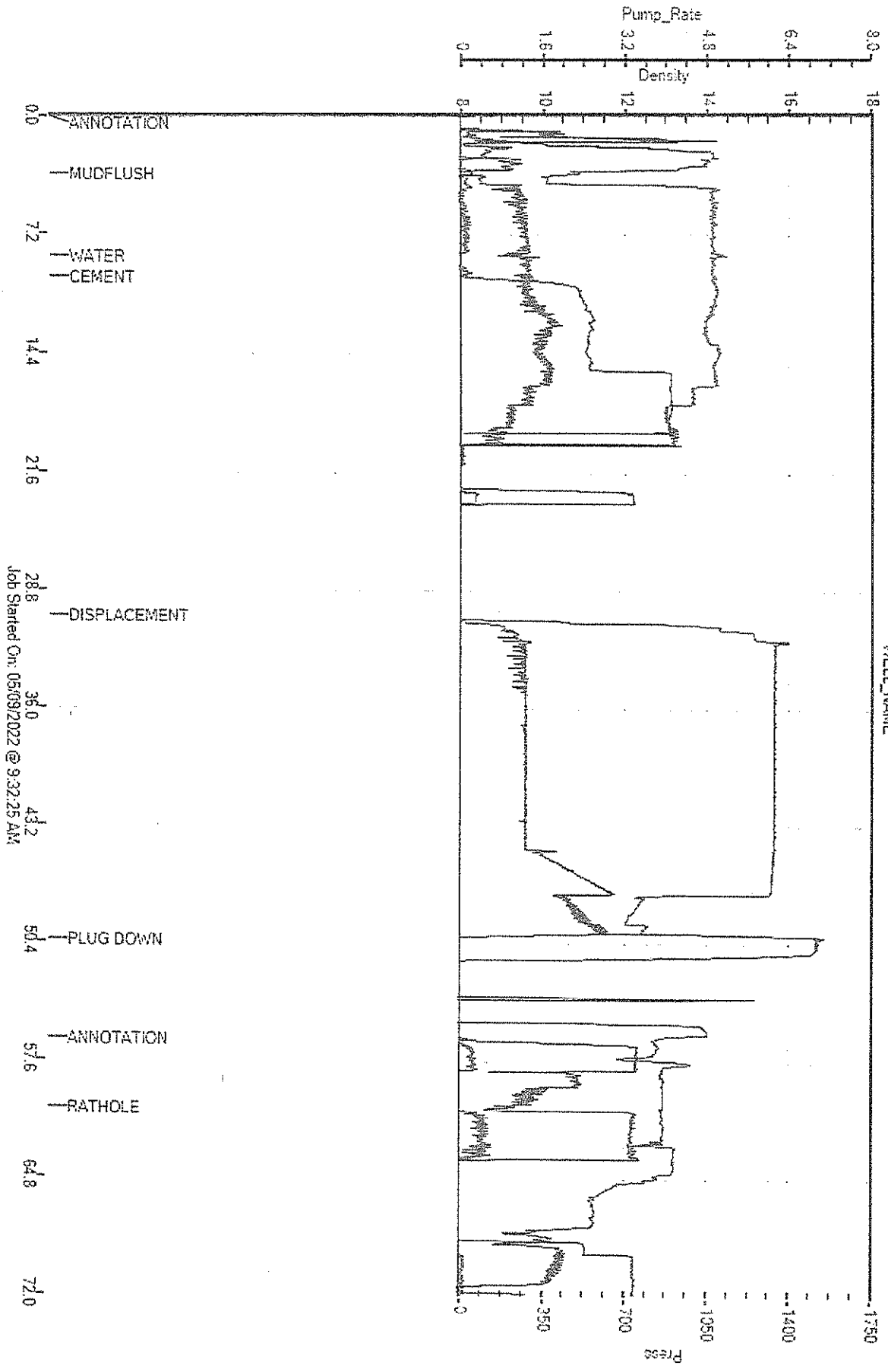
Calculated Slurry - Lead	
Blend:	H-LONG
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	32.0 bbls
Total Sacks:	125 sx

Calculated Slurry - Tail	
Blend:	H-PLUG
Weight:	13.78 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.0 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
2:40 AM			-	-	ON LOCATION
6:45 AM					RUN 5 1/2 15.5 CASING 43.42 SHOE JOINT TURBOS ON 1,3,5,7,9,11,13,15,17,19
9:05 AM					CASING ON BOTTOM
9:20 AM					HOOK TO CASING
9:25 AM					BREAK CIRCULATION WITH RIG
10:29 AM	4.0	100.0	24.0	24.0	PUMP 1000 GALLONS MUDFLUSH
10:36 AM	5.0	270.0	5.0	29.0	PUMP 5 BBL WATER
10:38 AM	4.9	300.0	32.0	61.0	MIX 125 SKS H-LONG
10:48 AM	4.0	25.0	4.0	65.0	WASH PUMP AND LINES, DROP PLUG
10:58 AM	6.1	300.0		65.0	START DISPLACEMENT
11:13 AM	6.1	380.0	83.0	148.0	LIFT PRESSURE
11:15 AM	3.5	440.0	95.0	243.0	SLOW RATE
11:18 AM		1,500.0	105.6	348.6	PLUG DOWN, released and held
11:22 AM	1.0	25.0	7.0	355.6	MIX 30 SKS H-PLUG FOR RAT HOLE
11:29 AM	1.0	25.0	5.0	360.6	MIX 20 SKS H-PLUG FOR MOUSE HOLE
					CIRCULATION THROUGH JOB
					JOB COMPLETE, THANK YOU!
					MIKE MATTAL
					RILEY & JOSE

Cementing	CREW		UNIT	SUMMARY		
	Operator	Unit		Average Rate	Average Pressure	Total Fluid
	MATTAL	912		4.0 bpm	337 psi	361 bbls
	OSBORN	176/521				
	TREVINO	526/256				

CUSTOMER
WELL_NAME





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: 4/30/2022
Invoice #: 0360271
Lease Name: Studer #5
Well #: 5 (New)
County: Pratt, Ks
Job Number: WP2733
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement Pozmix 60/40	350.000	13.800	4,830.00
Calcium Chloride	903.000	0.690	623.07
Cello Flake	88.000	1.610	141.68
Light Eq Mileage	10.000	1.840	18.40
Heavy Eq Mileage	20.000	3.680	73.60
Ton Mileage Minimum	1.000	276.000	276.00
Cement Blending & Mixing	350.000	1.288	450.80
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Data Acquisition	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00
Cement Pump-Hourly Service	4.000	175.000	700.00

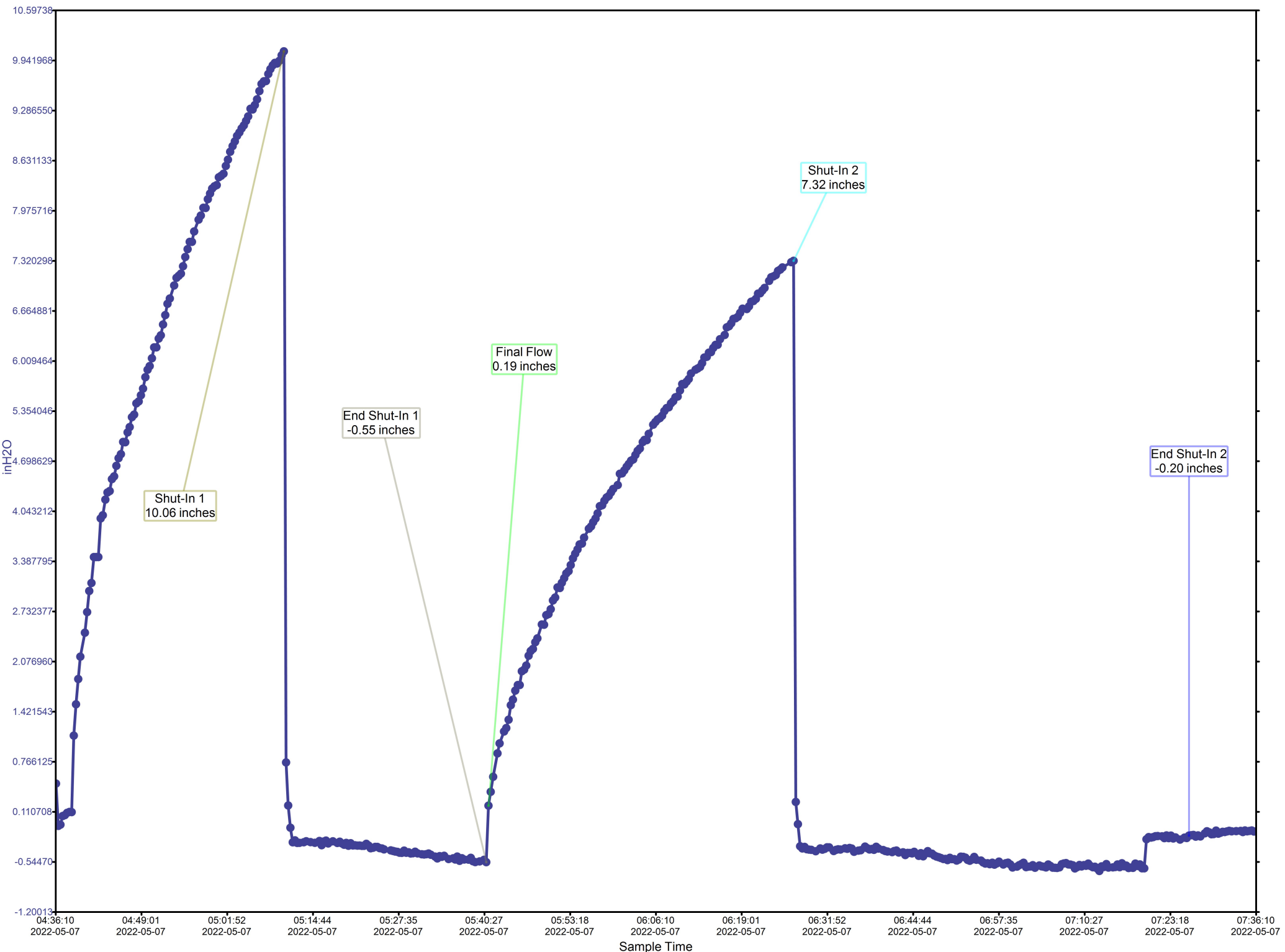
Total 8,538.55

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% 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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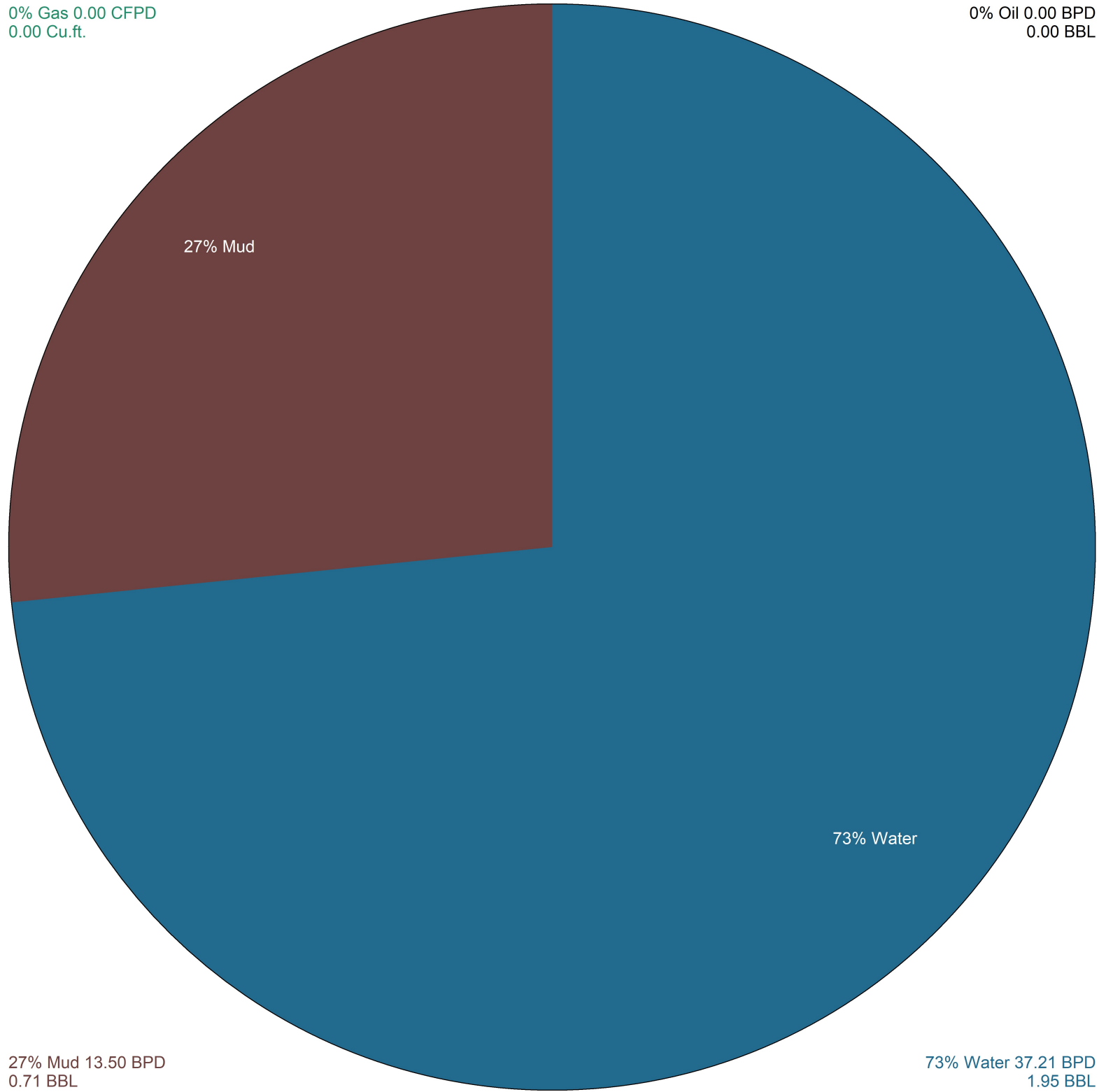
Prater Oil & Gas Operations - Studer 5 - DST 1



Calculated Recovery Analysis - Prater Oil & Gas Operations - Studer 5 - DST 1

0% Gas 0.00 CFPD
0.00 Cu.ft.

0% Oil 0.00 BPD
0.00 BBL

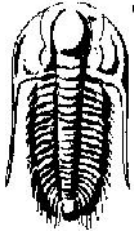


27% Mud

73% Water

27% Mud 13.50 BPD
0.71 BBL

73% Water 37.21 BPD
1.95 BBL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prater Oil & Gas Operations

4-27S-12W Pratt

10356 Bluestem Blvd
Pratt, KS 67124

Studer 5

Job Ticket: 65432

DST#: 1

ATTN: Scott Alberg

Test Start: 2022.05.07 @ 01:55:53

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:33:23

Time Test Ended: 09:37:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 80

Interval: 3943.00 ft (KB) To 3985.00 ft (KB) (TVD)

Reference Elevations: 1867.00 ft (KB)

Total Depth: 3985.00 ft (KB) (TVD)

1858.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8369

Outside

Press@RunDepth: 172.01 psig @ 3944.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.07

End Date:

2022.05.07

Last Calib.:

2022.05.07

Start Time: 01:55:54

End Time:

09:37:03

Time On Btm:

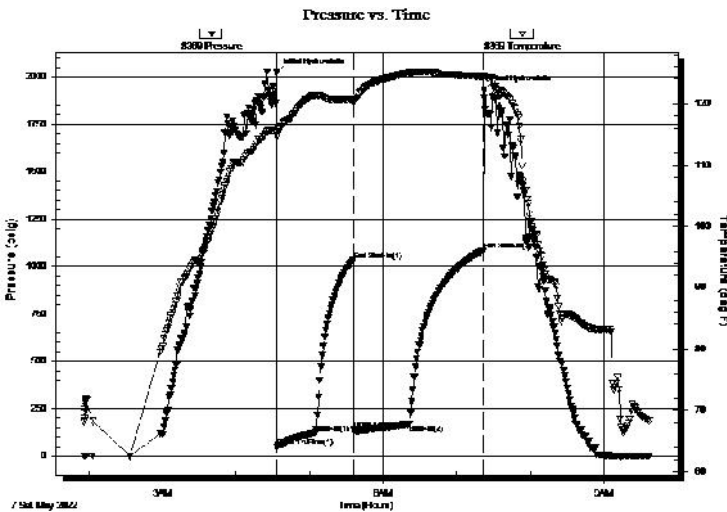
2022.05.07 @ 04:33:03

Time Off Btm:

2022.05.07 @ 07:22:13

TEST COMMENT: IF: Fair Blow , Built to 10.06 inches
IS: No Blow
FF: Fair Blow , Built to 7.32 inches
FS: No Blow

PRESSURE SUMMARY



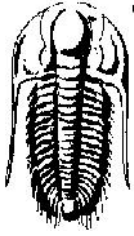
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.00	115.44	Initial Hydro-static
1	48.62	114.73	Open To Flow (1)
32	126.04	121.45	Shut-In(1)
63	1035.06	120.64	End Shut-In(1)
63	143.37	120.25	Open To Flow (2)
108	172.01	124.96	Shut-In(2)
169	1087.12	124.41	End Shut-In(2)
170	1932.36	124.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water	0.59
124.00	M CW 12% M 88% W	0.91
62.00	W CM 36% W 64% M	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prater Oil & Gas Operations

4-27S-12W Pratt

10356 Bluestem Blvd
Pratt, KS 67124

Studer 5

Job Ticket: 65432

DST#: 1

ATTN: Scott Alberg

Test Start: 2022.05.07 @ 01:55:53

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:

78000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	Water	0.590
124.00	MCW 12%M 88%W	0.910
62.00	WCM 36%W 64%M	0.870

Total Length: 306.00 ft Total Volume: 2.370 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

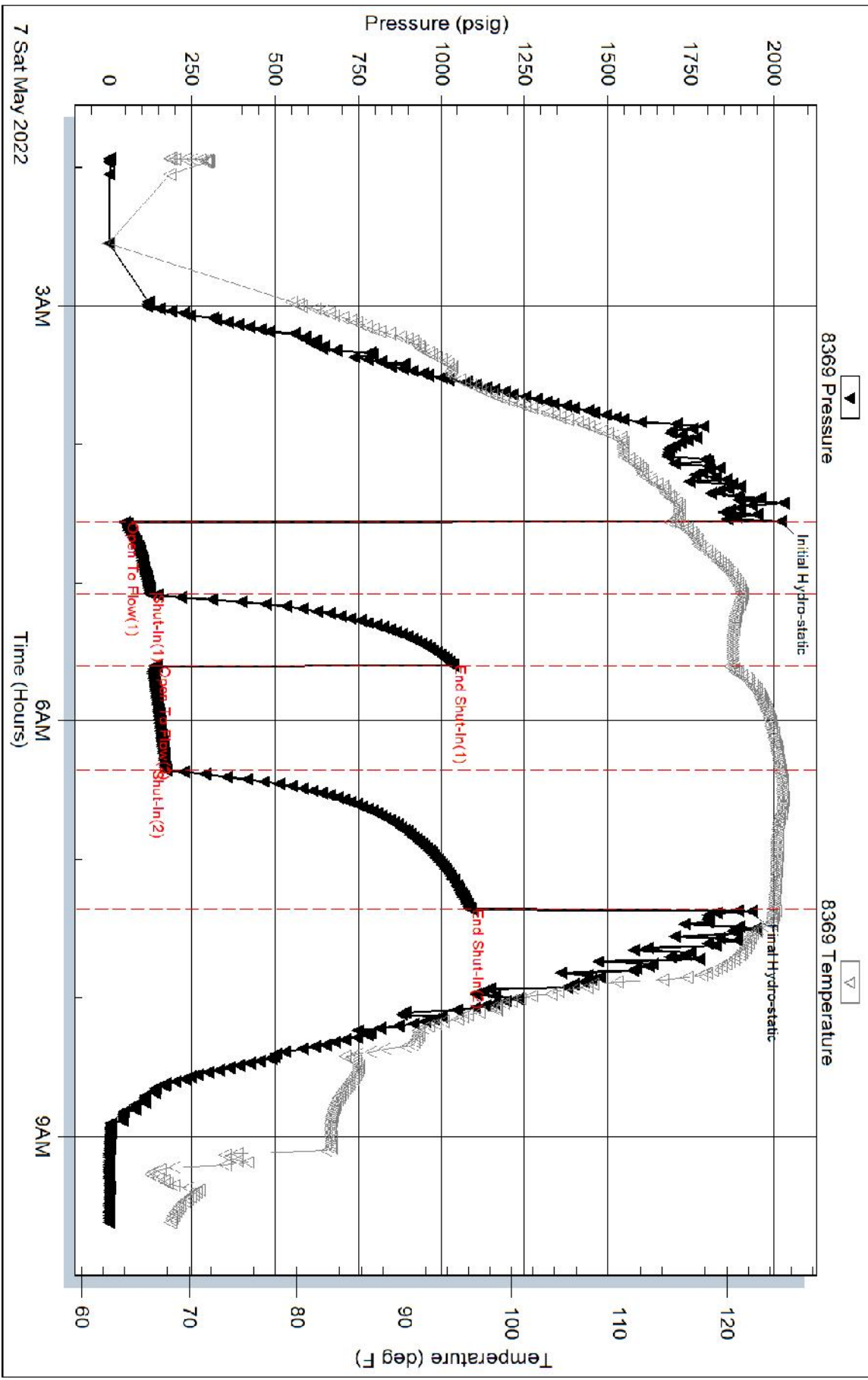
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .14 @ 54 degrees

Pressure vs. Time



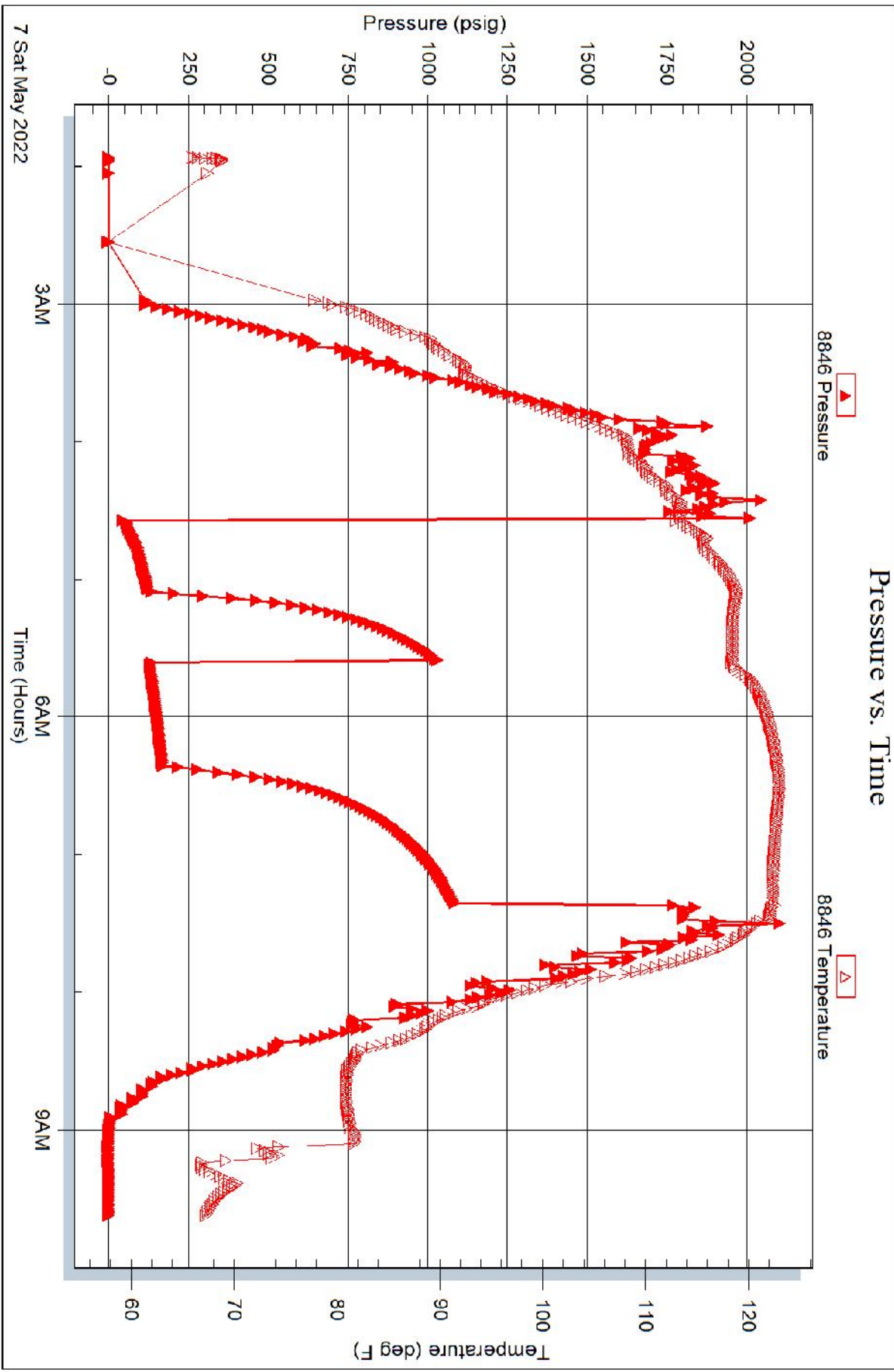
Serial #: 8846

Inside

Prater Oil & Gas Operations

Studer 5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65432

Printed: 2022.05.07 @ 11:51:48

MUD LOG

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

Well Name: Studer #5
Well Id: API # 15-151-22544-00-00
Location: C E2 SW SW
License Number: 31000
Spud Date: April 30, 2022
Surface Coordinates: 660' FSL & 990' FWL Section 4-TWP 27 South - Rge 12 West
Region: Pratt County, Kansas
Drilling Completed: May 8, 2022

Bottom Hole Vertical Hole
Ground Elevation (ft): 1854
Logged Interval (ft): 3400
Formation: Ar buckle
Type of Drilling Fluid: Chemical Mud, Displace at 2976'
K.B. Elevation (ft): 1867
To: 4475
Total Depth (ft): 4475
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Prater Oil & Gas Operations, Inc
Address: 10356 Bluestem Blvd
Pratt, Kansas 67124 - 6712

GEOLOGIST

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

Formation Tops

HEEBNER 3509(-1642)
DOUGLAS SHALE 3550(-1683)
LANSING 3706(-1839)
BKC 4056(-2189)
MISSISSIPPIAN 4144(-2277)
VIOLA 4314(-2447)
SIMPSON SHALE 4360(-2493)
SIMPSON SAND 4364(-2497)
ARBUCKLE 4442(-2575)

DSTs

DST #1 L/KC 'K' Zone 3943 to 3985'
Times 30-30-45-60
1st Opening - Fair Blow, Built to 10"
2nd Opening - Fair Blow, Built to 8"
No Blow back during Shut in's
IHP 2021# FHP 1932#
IHP 49 - 126#, FFP 143-172#
ISIP 1035#, FSP 1087#
Recovered: 62' WCM (36%W, 64% M)
124' MCW (88% W, 12% M)
120 Water, Chlor 78,000ppm
BHT 124

Comments

Surface Casing: Set 13 3/8" pipe at 253' with 350 x 60/40 Poz 3% CC, 1/4# FS. Plug down at 1:45 am on 5/01/2022. Cement circulated to surface.
Production Casing: Ran 5 1/2" Casing to further test the Mississippian.
Deviation Surveys: 25 - 256', 25 - 1031', 1 1/2 at 3985', 1 at 4475'.
Contractor Bit Record: 1 - 17 1/2" HTC out at 256'.
2 - 12 1/4" TRJZ out at 1031', no loss circulation
3 - 7/8" TRX PDC in at 1031' out at 4475'.
Mud Company: Mud Co/Service Mud
Brad Bortz / Justin Whiting-Representatives
Drill with Native and Premix to 2976' and Displace system with Chemical Mud.
One DST by Trilobite Testing.
Logged by ELI Wireline Services.
LTD 4474'.

CREWS

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

ROCK TYPES

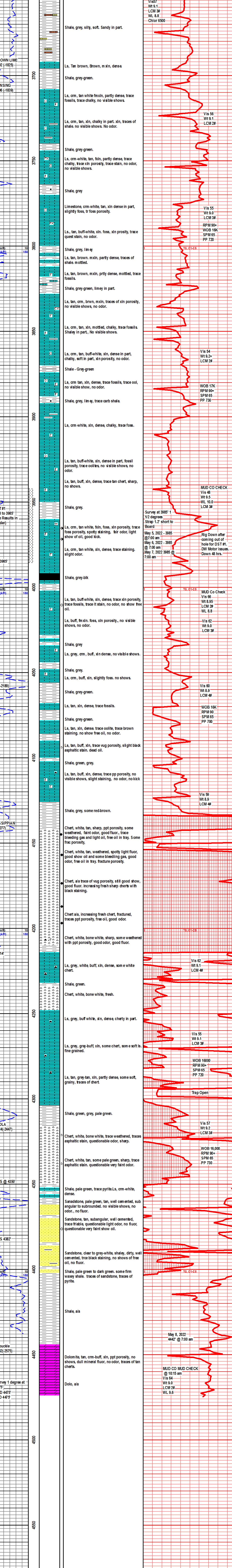
Anhy, Bent, Brecc, Chrt, Clyst, Coal, Congl, Dol, Gyp, Igne, Lmet, Meta, Mrst, Salt, Shale, Shcol, Shgy, Sstst, Ss, Tll

ACCESSORIES

MINERAL: Anhy, Arggrn, Arg, Bent, Brecc, Calc, Carb, Chrtk, Chrtt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, FOSSIL: Algae, Amph, Belm, Bloclst, Bryozoa, Cephal, Coral, Crin, Echln, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, STRINGER: Anhy, Bent, Arg, Coal, Dol, Gyp, Ls, Mrst, Siltstrg, Ssstrg, TEXTURE: Boundst, Chalky, Chalkn, Earthy, Finexin, Grainst, Lithogr, Microxin, Mudst, Packet, Wackest

OTHER SYMBOLS

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



Survey 1 degree at 4475' RTD 4475' LTD 4475'