

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Thoroughbred Associates L.L.C.
Well Name	SHOTTON UNIT 6-1
Doc ID	1562417

All Electric Logs Run

Dual Induction
Neutron Density
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associates LLC**

8100 E 22nd St STE 6006
Wichita, KS 67226

ATTN: Aaron Young

Shotton Unit #6-1

6-32s-18w Comanche,KS

Start Date: 2021.09.17 @ 15:00:09

End Date: 2021.09.18 @ 01:06:24

Job Ticket #: 67578 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.28 @ 15:58:52



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67578

DST#: 1

ATTN: Aaron Young

Test Start: 2021.09.17 @ 15:00:09

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:00:54

Time Test Ended: 01:06:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 4950.00 ft (KB) To 5003.00 ft (KB) (TVD)

Reference Elevations: 2129.00 ft (KB)

Total Depth: 5003.00 ft (KB) (TVD)

2122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8788

Inside

Press@RunDepth: 57.93 psig @ 4951.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.17 End Date: 2021.09.18

Last Calib.: 2021.09.18

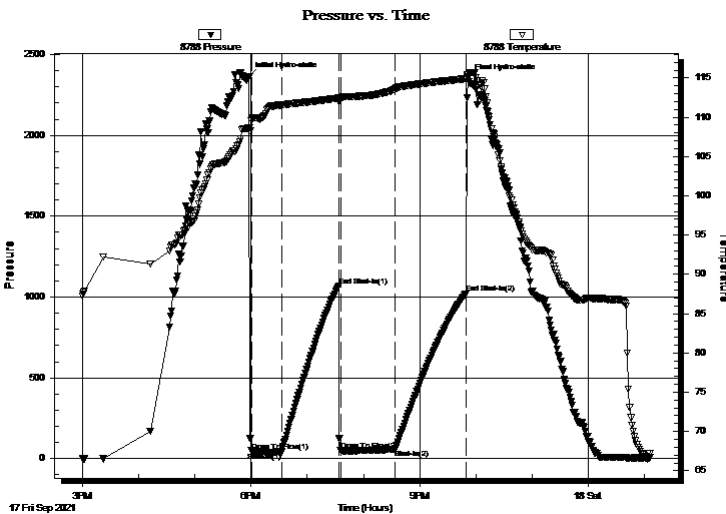
Start Time: 15:00:14 End Time: 01:06:24

Time On Btm: 2021.09.17 @ 17:57:54

Time Off Btm: 2021.09.17 @ 21:51:09

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. Built to 185.87" (30)
IS: No Blow . (60)
FF: Strong Blow .B.O.B. immediately. Built to 166.07". (60)
FS: No Blow . (75)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.35	108.71	Initial Hydro-static
3	47.23	109.91	Open To Flow (1)
35	41.84	111.54	Shut-In(1)
96	1069.14	112.43	End Shut-In(1)
99	49.34	112.44	Open To Flow (2)
156	57.93	113.57	Shut-In(2)
232	1022.15	114.89	End Shut-In(2)
234	2353.58	115.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GV/SOWCM 5%g 2%o 1%w 92%m	0.90
24.00	V/SOWCM 2%o 2%w 96%m	0.34
0.00	4,415' G.I.P. 100%g	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

ATTN: Aaron Young

Job Ticket: 67578

DST#: 1

Test Start: 2021.09.17 @ 15:00:09

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:00:54

Time Test Ended: 01:06:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **4950.00 ft (KB) To 5003.00 ft (KB) (TVD)**

Reference Elevations: 2129.00 ft (KB)

Total Depth: 5003.00 ft (KB) (TVD)

2122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8931 Outside

Press@RunDepth: psig @ 4951.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.17 End Date: 2021.09.18

Last Calib.: 2021.09.18

Start Time: 15:00:20 End Time: 01:06:30

Time On Btm:

Time Off Btm:

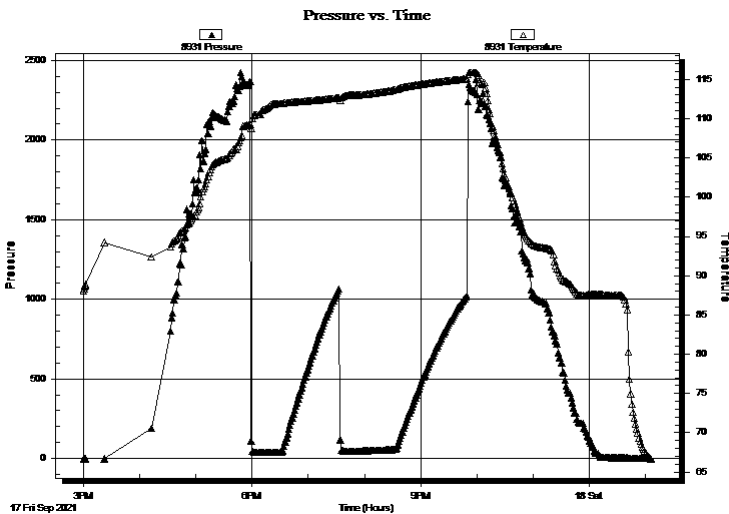
TEST COMMENT: IF: Strong Blow .B.O.B. in 30 secs. Built to 185.87" (30)

IS: No Blow . (60)

FF: Strong Blow .B.O.B. immediately. Built to 166.07". (60)

FS: No Blow . (75)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GV/SOWCM 5%g 2%o 1%w 92%m	0.90
24.00	V/SOWCM 2%o 2%w 96%m	0.34
0.00	4,415' G.I.P. 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67578

DST#: 1

ATTN: Aaron Young

Test Start: 2021.09.17 @ 15:00:09

Tool Information

Drill Pipe:	Length: 4951.00 ft	Diameter: 3.80 inches	Volume: 69.45 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 69.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4950.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4920.00	
Shut In Tool	5.00			4925.00	
Hydraulic tool	5.00			4930.00	
Jars	5.00			4935.00	
EMT	3.00			4938.00	
Safety Joint	3.00			4941.00	
Packer	4.00			4945.00	31.00 Bottom Of Top Packer
Packer	5.00			4950.00	
Stubb	1.00			4951.00	
Recorder	0.00	8788	Inside	4951.00	
Recorder	0.00	8931	Outside	4951.00	
Perforations	2.00			4953.00	
Change Over Sub	1.00			4954.00	
Blank Spacing	32.00			4986.00	
Change Over Sub	1.00			4987.00	
Perforations	13.00			5000.00	
Bullnose	3.00			5003.00	53.00 Bottom Packers & Anchor
Total Tool Length:	84.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67578

DST#: 1

ATTN: Aaron Young

Test Start: 2021.09.17 @ 15:00:09

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 62.00 sec/qt
Water Loss: 12.75 in³
Resistivity: ohm.m
Salinity: 13500.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 13500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	GVSOWCM 5%g 2%o 1%w 92%m	0.898
24.00	VSOWCM 2%o 2%w 96%m	0.337
0.00	4,415' G.I.P. 100%g	0.000

Total Length: 88.00 ft Total Volume: 1.235 bbl

Num Fluid Samples: 0

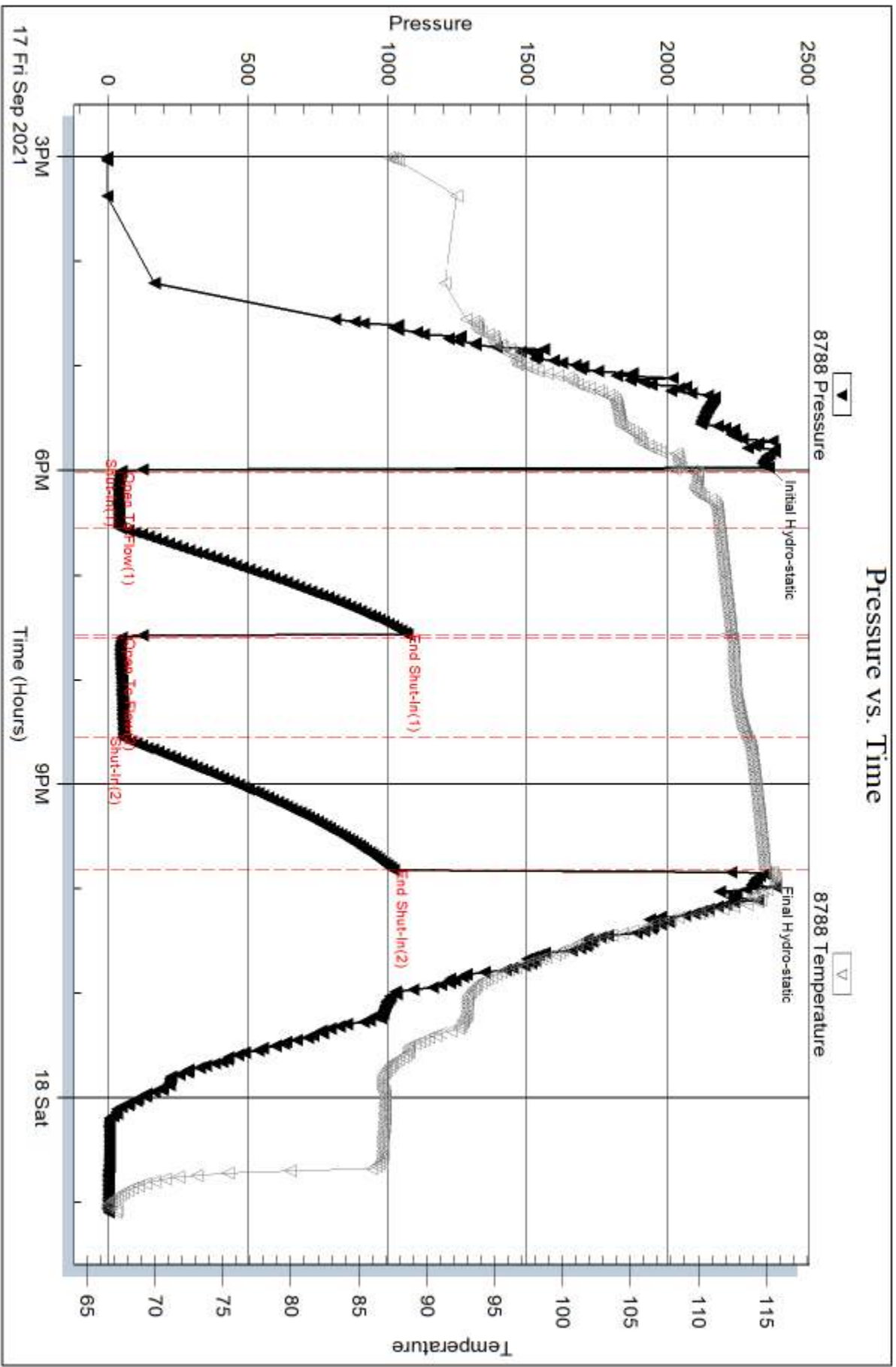
Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 4,415 FT of Gas in Pipe.

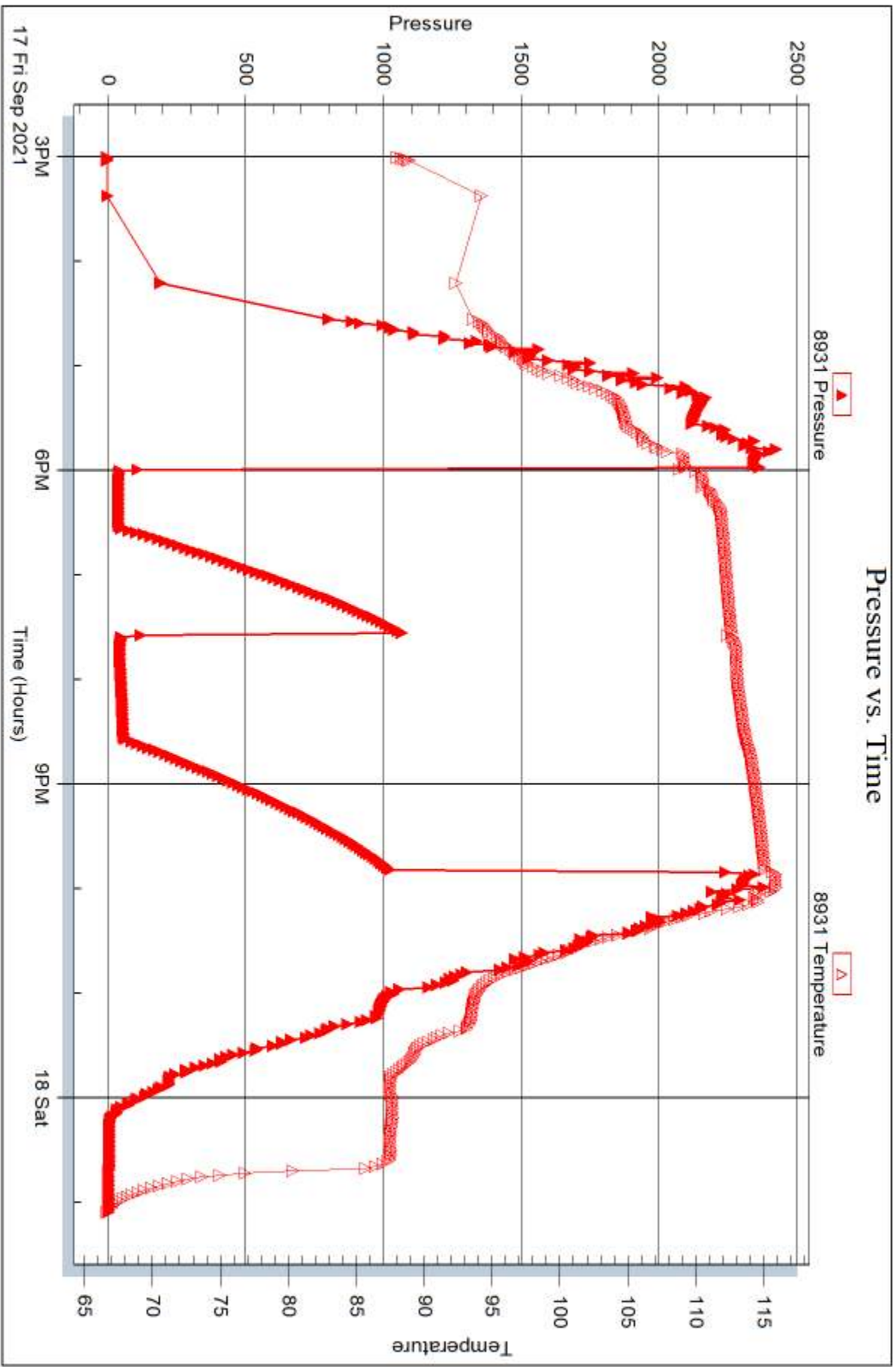


Serial #: 8931

Outside Thoroughbred Associates LLC

Shotgun Unit #6-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67578

Printed: 2021.09.28 @ 15:58:53



DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associates LLC**

8100 E 22nd St STE 6006
Wichita, KS 67226

ATTN: Aaron Young

Shotton Unit #6-1

6-32s-18w Comanche,KS

Start Date: 2021.09.19 @ 04:53:25

End Date: 2021.09.19 @ 13:41:25

Job Ticket #: 67579 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.28 @ 15:57:07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67579

DST#: 2

ATTN: Aaron Young

Test Start: 2021.09.19 @ 04:53:25

GENERAL INFORMATION:

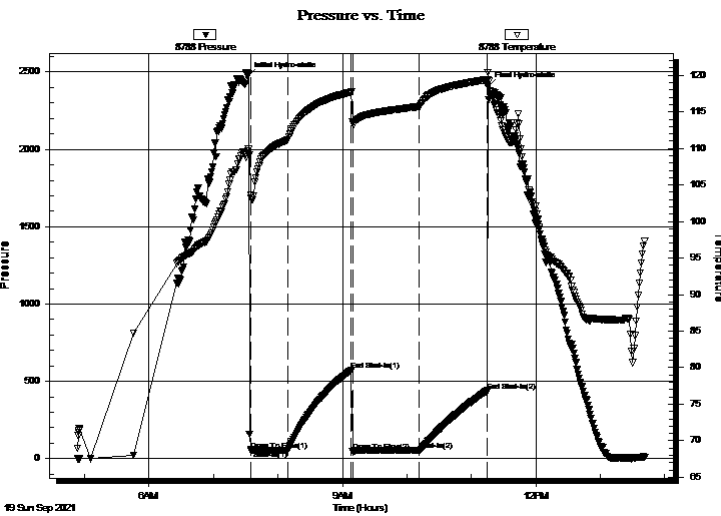
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:34:55
 Time Test Ended: 13:41:25
 Interval: **5105.00 ft (KB) To 5181.00 ft (KB) (TVD)**
 Total Depth: 5181.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2129.00 ft (KB)
 2122.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8788

Inside

Press@RunDepth: 52.29 psig @ 5106.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.19 End Date: 2021.09.19 Last Calib.: 2021.09.19
 Start Time: 04:53:30 End Time: 13:41:25 Time On Btm: 2021.09.19 @ 07:31:40
 Time Off Btm: 2021.09.19 @ 11:15:25

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 220.13". (30)
 IS: Weak blow . Built to 3/4". (60)
 FF: Strong Blow . B.O.B. immediate. G.T.S. in 20 mins. Low BTU, Gauged gas. Built to 144". (60)
 FS: Weak Blow . Built to 3/4". (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2469.14	109.65	Initial Hydro-static
4	55.87	103.16	Open To Flow (1)
38	55.68	111.19	Shut-In(1)
97	571.51	117.71	End Shut-In(1)
99	47.63	113.37	Open To Flow (2)
160	52.29	115.73	Shut-In(2)
224	439.28	119.41	End Shut-In(2)
224	2404.19	120.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
99.00	GOSM 3%g 97%m	1.39
0.00	4872' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.04	7.28
Last Gas Rate	0.13	3.37	6.65
Max. Gas Rate	0.13	5.04	7.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67579

DST#: 2

ATTN: Aaron Young

Test Start: 2021.09.19 @ 04:53:25

GENERAL INFORMATION:

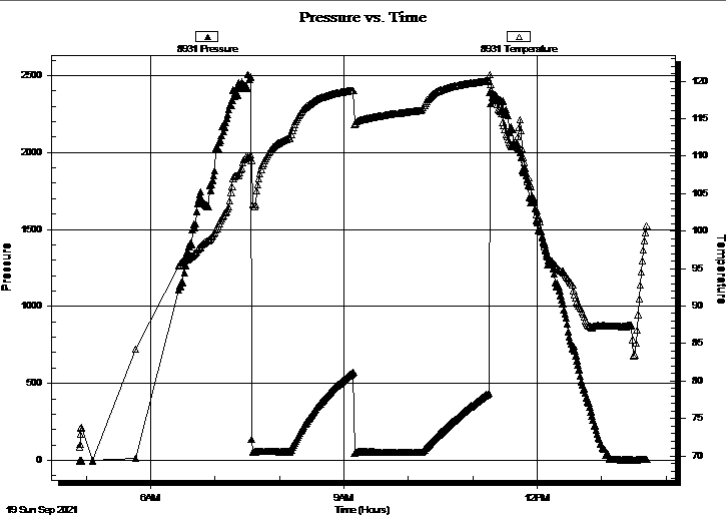
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:34:55
 Time Test Ended: 13:41:25
 Interval: **5105.00 ft (KB) To 5181.00 ft (KB) (TVD)**
 Total Depth: 5181.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2129.00 ft (KB)
 2122.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8931

Outside

Press@RunDepth: psig @ 5106.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.19 End Date: 2021.09.19 Last Calib.: 2021.09.19
 Start Time: 04:54:03 End Time: 13:42:13 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 220.13". (30)
 IS: Weak blow . Built to 3/4". (60)
 FF: Strong Blow . B.O.B. immediate. G.T.S. in 20 mins. Low BTU, Gauged gas. Built to 144". (60)
 FS: Weak Blow . Built to 3/4". (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
99.00	GOSM 3%g 97%m	1.39
0.00	4872' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.04	7.28
Last Gas Rate	0.13	3.37	6.65
Max. Gas Rate	0.13	5.04	7.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67579

DST#: 2

ATTN: Aaron Young

Test Start: 2021.09.19 @ 04:53:25

Tool Information

Drill Pipe:	Length: 5078.00 ft	Diameter: 3.80 inches	Volume: 71.23 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 71.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	5105.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5075.00	
Shut In Tool	5.00			5080.00	
Hydraulic tool	5.00			5085.00	
Jars	5.00			5090.00	
EMT	3.00			5093.00	
Safety Joint	3.00			5096.00	
Packer	4.00			5100.00	31.00 Bottom Of Top Packer
Packer	5.00			5105.00	
Stubb	1.00			5106.00	
Recorder	0.00	8788	Inside	5106.00	
Recorder	0.00	8931	Outside	5106.00	
Perforations	1.00			5107.00	
Change Over Sub	1.00			5108.00	
Blank Spacing	64.00			5172.00	
Change Over Sub	1.00			5173.00	
Perforations	5.00			5178.00	
Bullnose	3.00			5181.00	76.00 Bottom Packers & Anchor
Total Tool Length:	107.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67579

DST#: 2

ATTN: Aaron Young

Test Start: 2021.09.19 @ 04:53:25

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:

13000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
99.00	GOSM 3%g 97%m	1.389
0.00	4872' GIP	0.000

Total Length: 99.00 ft Total Volume: 1.389 bbl

Num Fluid Samples: 1

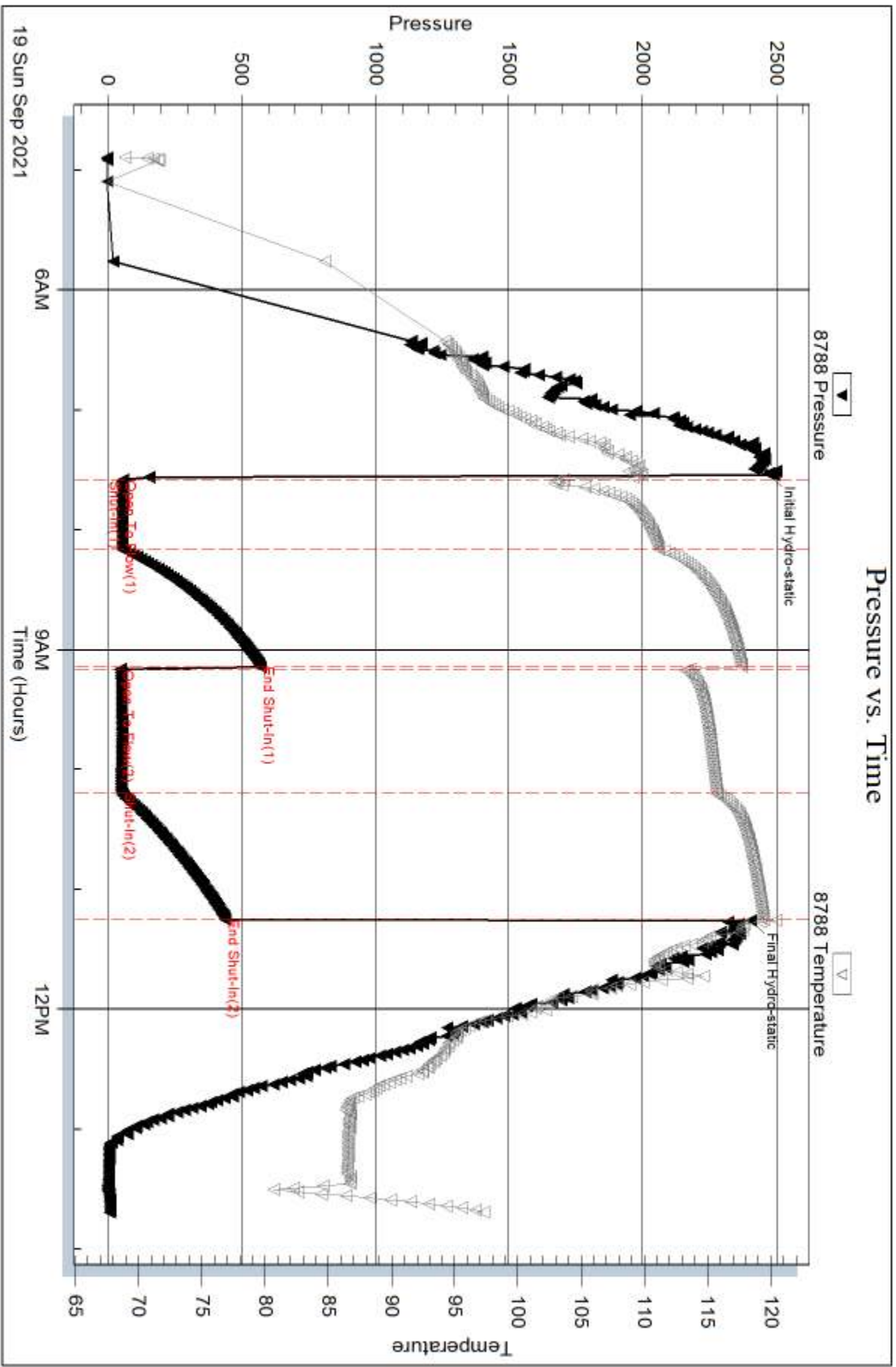
Num Gas Bombs: 1

Serial #: P-15 Matt

Laboratory Name:

Laboratory Location:

Recovery Comments: 4,872 FT of Gas in Pipe.

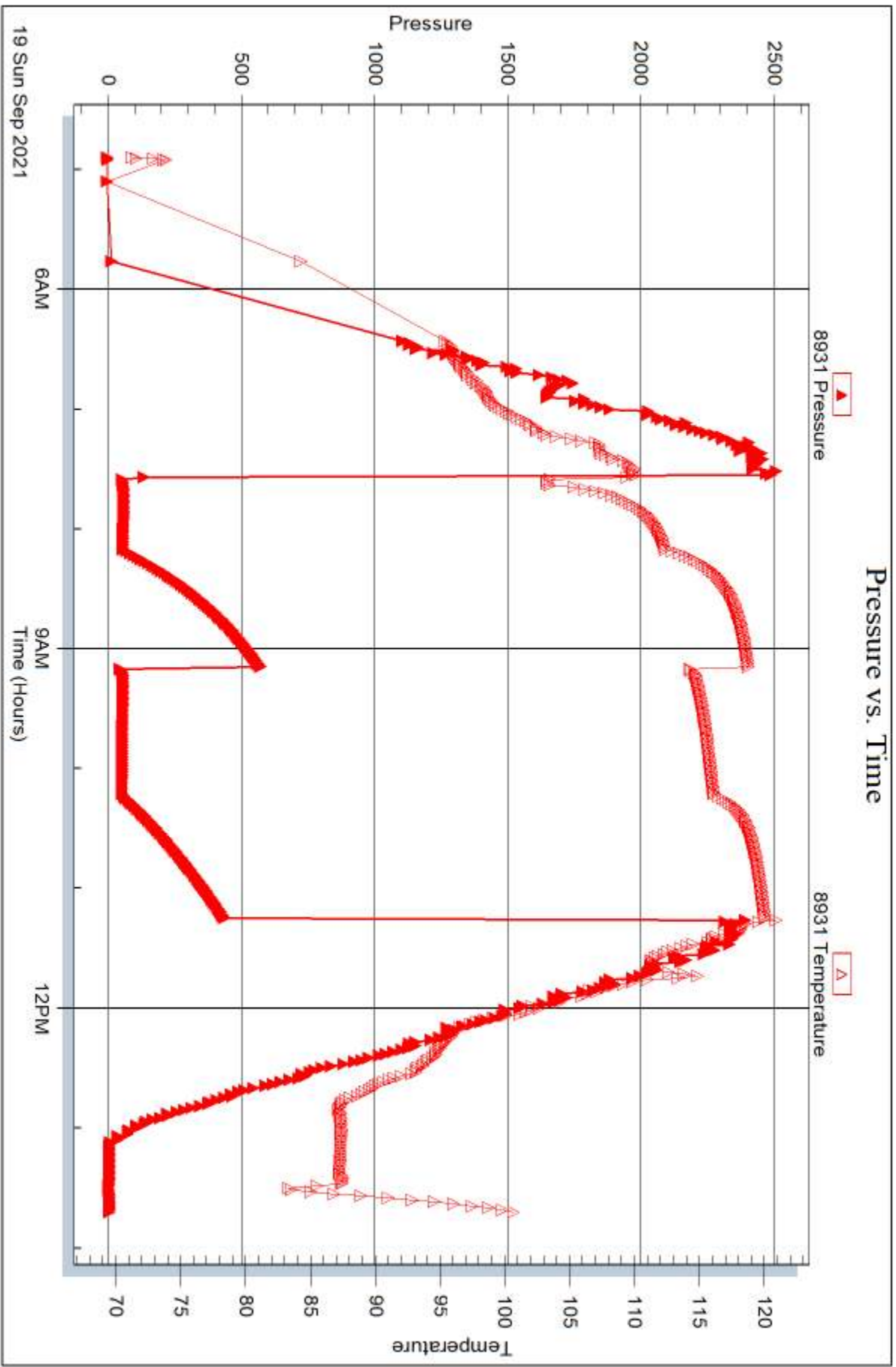


Serial #: 8931

Outside Thoroughbred Associates LLC

Shotgun Unit #6-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associates LLC**

8100 E 22nd St STE 6006
Wichita, KS 67226

ATTN: Aaron Young

Shotton Unit #6-1

6-32s-18w Comanche,KS

Start Date: 2021.09.22 @ 03:20:14

End Date: 2021.09.22 @ 13:43:14

Job Ticket #: 67580 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.28 @ 15:49:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67580

DST#: 3

ATTN: Aaron Young

Test Start: 2021.09.22 @ 03:20:14

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:48:44

Time Test Ended: 13:43:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 5650.00 ft (KB) To 5716.00 ft (KB) (TVD)

Reference Elevations: 2129.00 ft (KB)

Total Depth: 5716.00 ft (KB) (TVD)

2122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8788

Inside

Press@RunDepth: 60.14 psig @ 5651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.22 End Date: 2021.09.22

Last Calib.: 2021.09.22

Start Time: 03:20:19 End Time: 13:43:14

Time On Btm: 2021.09.22 @ 06:42:59

Time Off Btm: 2021.09.22 @ 10:49:14

TEST COMMENT: IF: Fair Blow . Built to 9.19". (45)
IS: No Blow . (60)
FF: Strong Blow . B.O.B. in 4 mins. Built to 39.97". (60)
FS: No Blow . (75)

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2690.26	121.26	Initial Hydro-static
6	50.72	120.67	Open To Flow (1)
48	44.23	121.90	Shut-In(1)
108	1762.66	124.25	End Shut-In(1)
110	54.05	124.06	Open To Flow (2)
169	60.14	125.47	Shut-In(2)
245	1899.49	127.03	End Shut-In(2)
247	2688.40	127.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GSOCM 29%g 7%o 64%m	0.90
53.00	GVSO CM 1%g 1%o 98%m	0.74
0.00	736' GIP 100%g	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67580

DST#: 3

ATTN: Aaron Young

Test Start: 2021.09.22 @ 03:20:14

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:48:44 Tester: Matt Smith
 Time Test Ended: 13:43:14 Unit No: 68
 Interval: **5650.00 ft (KB) To 5716.00 ft (KB) (TVD)** Reference Elevations: 2129.00 ft (KB)
 Total Depth: 5716.00 ft (KB) (TVD) 2122.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

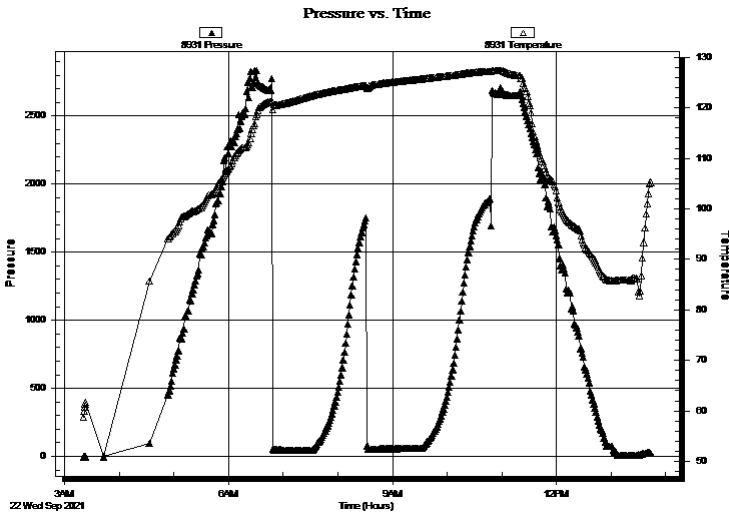
Serial #: 8931

Outside

Press@RunDepth: psig @ 5651.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.22 End Date: 2021.09.22 Last Calib.: 2021.09.22
 Start Time: 03:20:51 End Time: 13:43:46 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair Blow . Built to 9.19". (45)
 IS: No Blow . (60)
 FF: Strong Blow . B.O.B. in 4 mins. Built to 39.97". (60)
 FS: No Blow . (75)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GSOCM 29%g 7%o 64%m	0.90
53.00	GVSOCM 1%g 1%o 98%m	0.74
0.00	736' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67580

DST#: 3

ATTN: Aaron Young

Test Start: 2021.09.22 @ 03:20:14

Tool Information

Drill Pipe:	Length: 5648.00 ft	Diameter: 3.80 inches	Volume: 79.23 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 79.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5650.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer in String. Requested.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5620.00	
Shut In Tool	5.00			5625.00	
Hydraulic tool	5.00			5630.00	
Jars	5.00			5635.00	
EMT	3.00			5638.00	
Safety Joint	3.00			5641.00	
Packer	4.00			5645.00	31.00 Bottom Of Top Packer
Packer	5.00			5650.00	
Stubb	1.00			5651.00	
Recorder	0.00	8788	Inside	5651.00	
Recorder	0.00	8931	Outside	5651.00	
Perforations	4.00			5655.00	
Change Over Sub	1.00			5656.00	
Blank Spacing	31.00			5687.00	
Change Over Sub	1.00			5688.00	
Perforations	25.00			5713.00	
Bullnose	3.00			5716.00	66.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67580

DST#: 3

ATTN: Aaron Young

Test Start: 2021.09.22 @ 03:20:14

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:

10500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	GSOCM 29%g 7%o 64%m	0.898
53.00	GVSOCM 1%g 1%o 98%m	0.743
0.00	736' GIP 100%g	0.000

Total Length: 117.00 ft Total Volume: 1.641 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

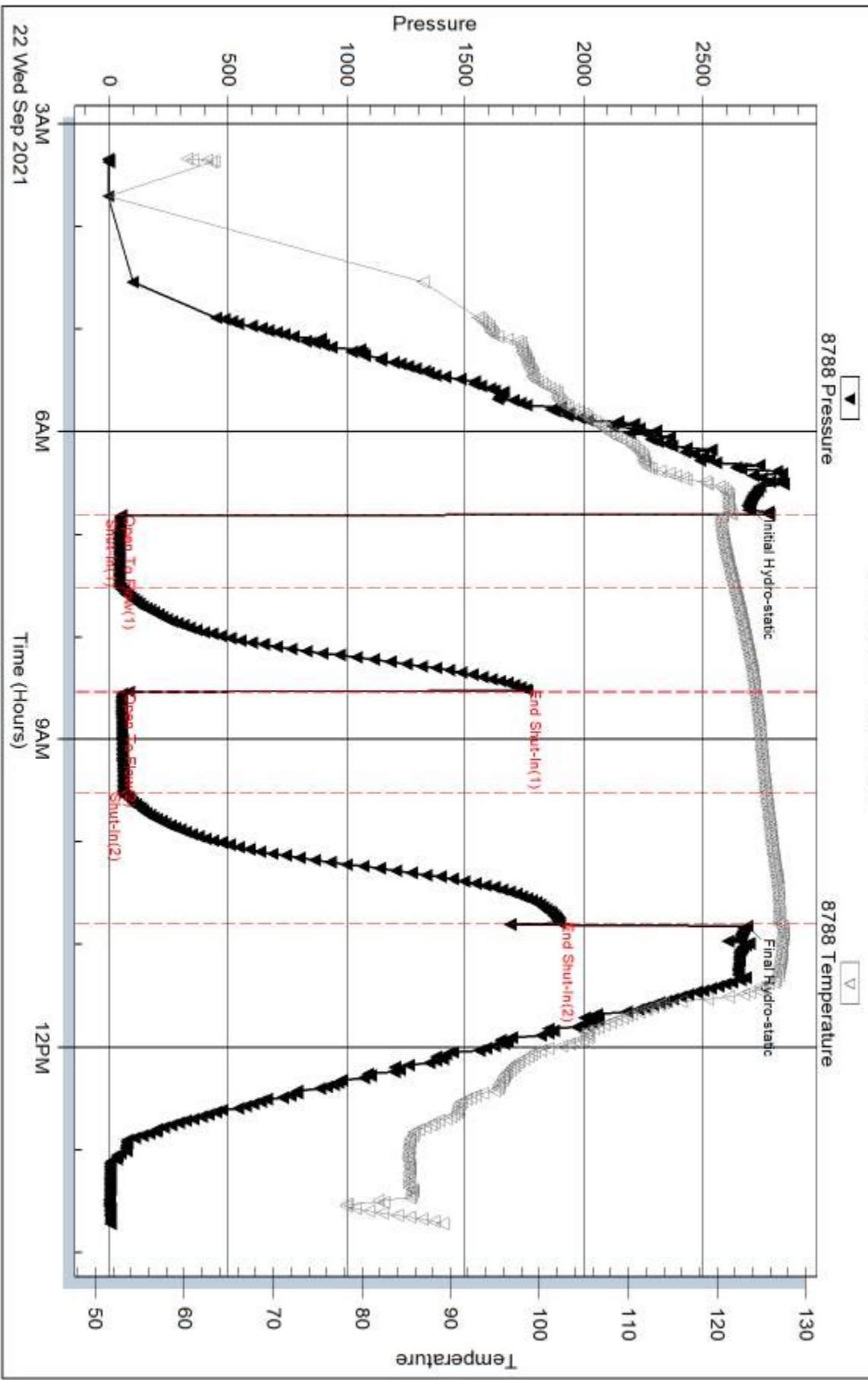
Serial #: None

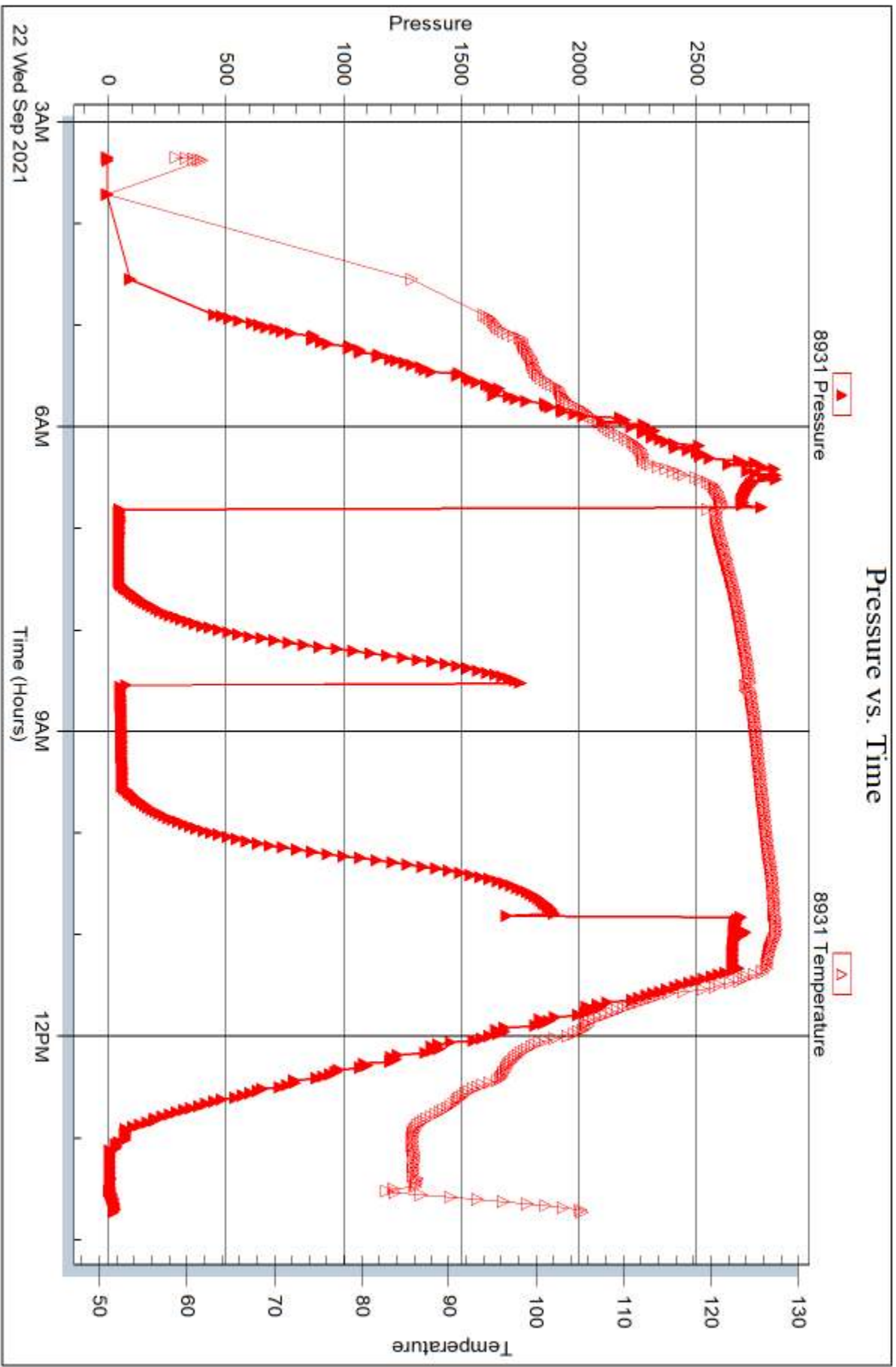
Laboratory Name:

Laboratory Location:

Recovery Comments: 736 FTof Gas in Pipe.

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Thoroughbred Associates LLC**

8100 E 22nd St STE 6006
Wichita, KS 67226

ATTN: Aaron Young

Shotton Unit #6-1

6-32s-18w Comanche,KS

Start Date: 2021.09.24 @ 01:47:11

End Date: 2021.09.24 @ 18:39:11

Job Ticket #: 67581 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.28 @ 15:36:29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67581

DST#: 4

ATTN: Aaron Young

Test Start: 2021.09.24 @ 01:47:11

GENERAL INFORMATION:

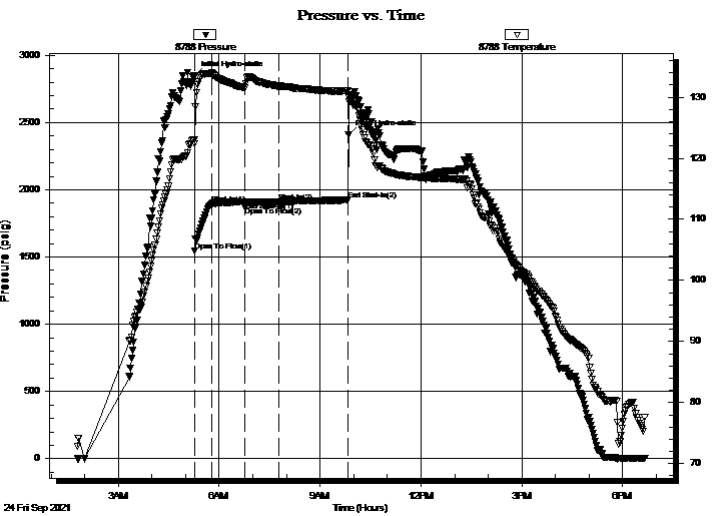
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:15:41
 Time Test Ended: 18:39:11
 Interval: **5722.00 ft (KB) To 5744.00 ft (KB) (TVD)**
 Total Depth: 5955.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 2129.00 ft (KB)
 2122.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8788

Inside

Press@RunDepth: 1911.71 psig @ 5743.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.24 End Date: 2021.09.24 Last Calib.: 2021.09.24
 Start Time: 01:47:16 End Time: 18:39:11 Time On Btm: 2021.09.24 @ 05:15:11
 Time Off Btm: 2021.09.24 @ 09:50:26

TEST COMMENT: IF: Strong Blo. B.O.B. in 20 secs. G.T.S. in 28 mins. Built to over 800". (30)
 IS: Strong Blow . B.O.B immediate after 8 min Bleed off. Built to 409.59". (60)
 FF: Strong Blow . B.O.B. & G.T.S immediate. Gauged Gas. Built to 197.18". (60)
 FS: Strong Blow . B.O.B. in 45 secs after Bleed off. Built to 718.56". (120)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2845.78	123.06	Initial Hydro-static
1	1546.24	122.41	Open To Flow (1)
32	1892.89	134.06	Shut-In(1)
91	1911.51	131.47	End Shut-In(1)
91	1872.96	131.45	Open To Flow (2)
151	1911.71	131.83	Shut-In(2)
275	1923.29	131.08	End Shut-In(2)
276	2411.90	130.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
576.00	GV/SOMCW 2%g 5%o 2%m 91%w	8.08
1344.00	GSOMCW 1%g 7%o 1%m 91%w	18.85
1216.00	HO 100%o	17.06
1024.00	CO 100%o	14.36
32.00	GOCM 25%g 40%o 35%m	0.45
0.00	704' Blew out swivel. GCO	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	68.74	31.12
Last Gas Rate	0.13	3.06	6.54
Max. Gas Rate	0.13	68.74	31.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

ATTN: Aaron Young

Job Ticket: 67581

DST#: 4

Test Start: 2021.09.24 @ 01:47:11

GENERAL INFORMATION:

Formation: Viola		Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Matt Smith
Time Tool Opened: 05:15:41		Unit No: 68
Time Test Ended: 18:39:11		
Interval: 5722.00 ft (KB) To 5744.00 ft (KB) (TVD)		Reference Elevations: 2129.00 ft (KB)
Total Depth: 5955.00 ft (KB) (TVD)		2122.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 7.00 ft

Serial #: 8931	Outside				
Press@RunDepth: psig @ 5743.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2021.09.24	End Date: 2021.09.24	Last Calib.: 2021.09.24			
Start Time: 01:47:18	End Time: 18:39:13	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: Strong Blo. B.O.B. in 20 secs. G.T.S. in 28 mins. Built to over 800". (30)
 IS: Strong Blow. B.O.B immediate after 8 min Bleed off. Built to 409.59". (60)
 FF: Strong Blow. B.O.B. & G.T.S immediate. Gauged Gas. Built to 197.18". (60)
 FS: Strong Blow. B.O.B. in 45 secs after Bleed off. Built to 718.56". (120)

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

Length (ft)	Description	Volume (bbl)
576.00	GV/SOMCW 2%g 5%o 2%m 91%w	8.08
1344.00	GSOMCW 1%g 7%o 1%m 91%w	18.85
1216.00	HO 100%o	17.06
1024.00	CO 100%o	14.36
32.00	GO CM 25%g 40%o 35%m	0.45
0.00	704' Blew out swivel. GCO	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	68.74	31.12
Last Gas Rate	0.13	3.06	6.54
Max. Gas Rate	0.13	68.74	31.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67581

DST#: 4

ATTN: Aaron Young

Test Start: 2021.09.24 @ 01:47:11

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:15:41

Time Test Ended: 18:39:11

Test Type: Conventional Straddle (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 5722.00 ft (KB) To 5744.00 ft (KB) (TVD)

Reference Elevations: 2129.00 ft (KB)

Total Depth: 5955.00 ft (KB) (TVD)

2122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8737 Below (Straddle)

Press@RunDepth: psig @ 5960.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.24 End Date: 2021.09.24

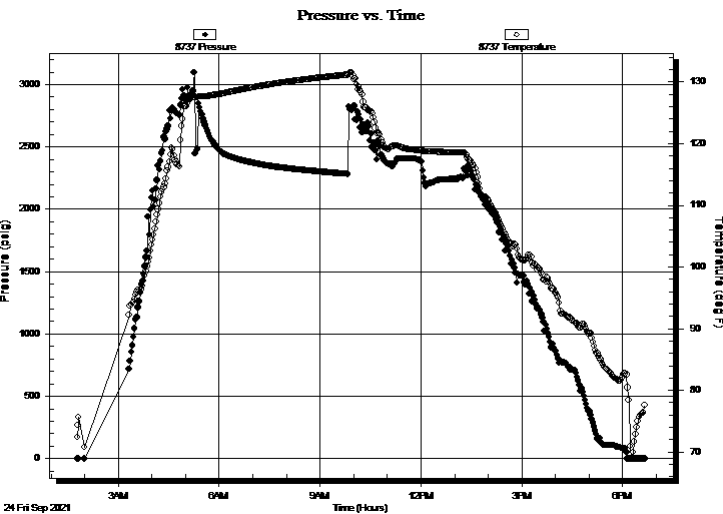
Last Calib.: 2021.09.24

Start Time: 01:47:18 End Time: 18:39:13

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blo. B.O.B. in 20 secs. G.T.S. in 28 mins. Built to over 800". (30)
IS: Strong Blow . B.O.B immediate after 8 min Bleed off. Built to 409.59". (60)
FF: Strong Blow . B.O.B. & G.T.S immediate. Gauged Gas. Built to 197.18". (60)
FS: Strong Blow . B.O.B. in 45 secs after Bleed off. Built to 718.56". (120)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
576.00	GV/SOMCW 2%g 5%o 2%m 91%w	8.08
1344.00	GSOMCW 1%g 7%o 1%m 91%w	18.85
1216.00	HO 100%o	17.06
1024.00	CO 100%o	14.36
32.00	GOCM 25%g 40%o 35%m	0.45
0.00	704' Blew out swivel. GCO	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	68.74	31.12
Last Gas Rate	0.13	3.06	6.54
Max. Gas Rate	0.13	68.74	31.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thoroughbred Associates LLC

6-32s-18w Comanche,KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67581

DST#: 4

ATTN: Aaron Young

Test Start: 2021.09.24 @ 01:47:11

Tool Information

Drill Pipe:	Length: 5720.00 ft	Diameter: 3.80 inches	Volume: 80.24 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 80.24 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	5722.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	5744.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	269.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Tool Slid 5 Ft.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5695.00	
Shut In Tool	5.00			5700.00	
Hydraulic tool	5.00			5705.00	
Jars	5.00			5710.00	
Safety Joint	3.00			5713.00	
Packer	5.00			5718.00	28.00 Bottom Of Top Packer
Packer	4.00			5722.00	
Stubb	1.00			5723.00	
Perforations	20.00			5743.00	
Recorder	0.00	8788	Inside	5743.00	
Recorder	0.00	8931	Outside	5743.00	
Blank Off Sub	1.00			5744.00	
Packer	2.00			5746.00	22.00 Tool Interval
Packer	3.00			5749.00	
Stubb	1.00			5750.00	
Perforations	1.00			5751.00	
Change Over Sub	1.00			5752.00	
Blank Spacing	191.00			5943.00	
Change Over Sub	1.00			5944.00	
Perforations	16.00			5960.00	
Recorder	0.00	8737	Below	5960.00	
Bullnose	3.00			5963.00	219.00 Bottom Packers & Anchor

Total Tool Length: 269.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thoroughbred Associates LLC

6-32s-18w Comanche, KS

8100 E 22nd St STE 6006
Wichita, KS 67226

Shotton Unit #6-1

Job Ticket: 67581

DST#: 4

ATTN: Aaron Young

Test Start: 2021.09.24 @ 01:47:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

66000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
576.00	GVSOMCW 2%g 5%o 2%m 91%w	8.080
1344.00	GSOMCW 1%g 7%o 1%m 91%w	18.853
1216.00	HO 100%o	17.057
1024.00	CO 100%o	14.364
32.00	GOCM 25%g 40%o 35%m	0.449
0.00	704' Blew out swivel. GCO	0.000

Total Length: 4192.00 ft Total Volume: 58.803 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

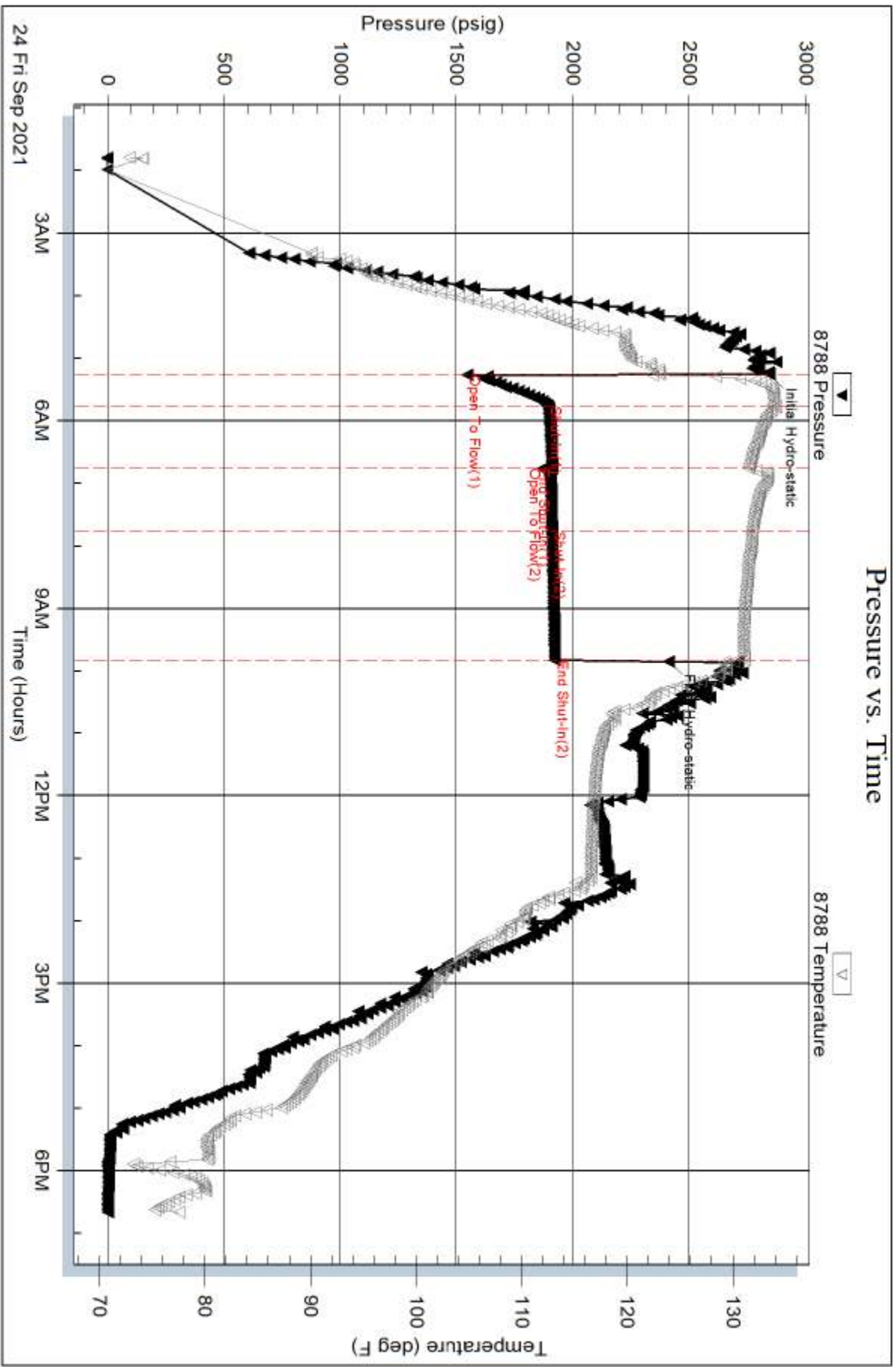
Serial #: P- TC Matt

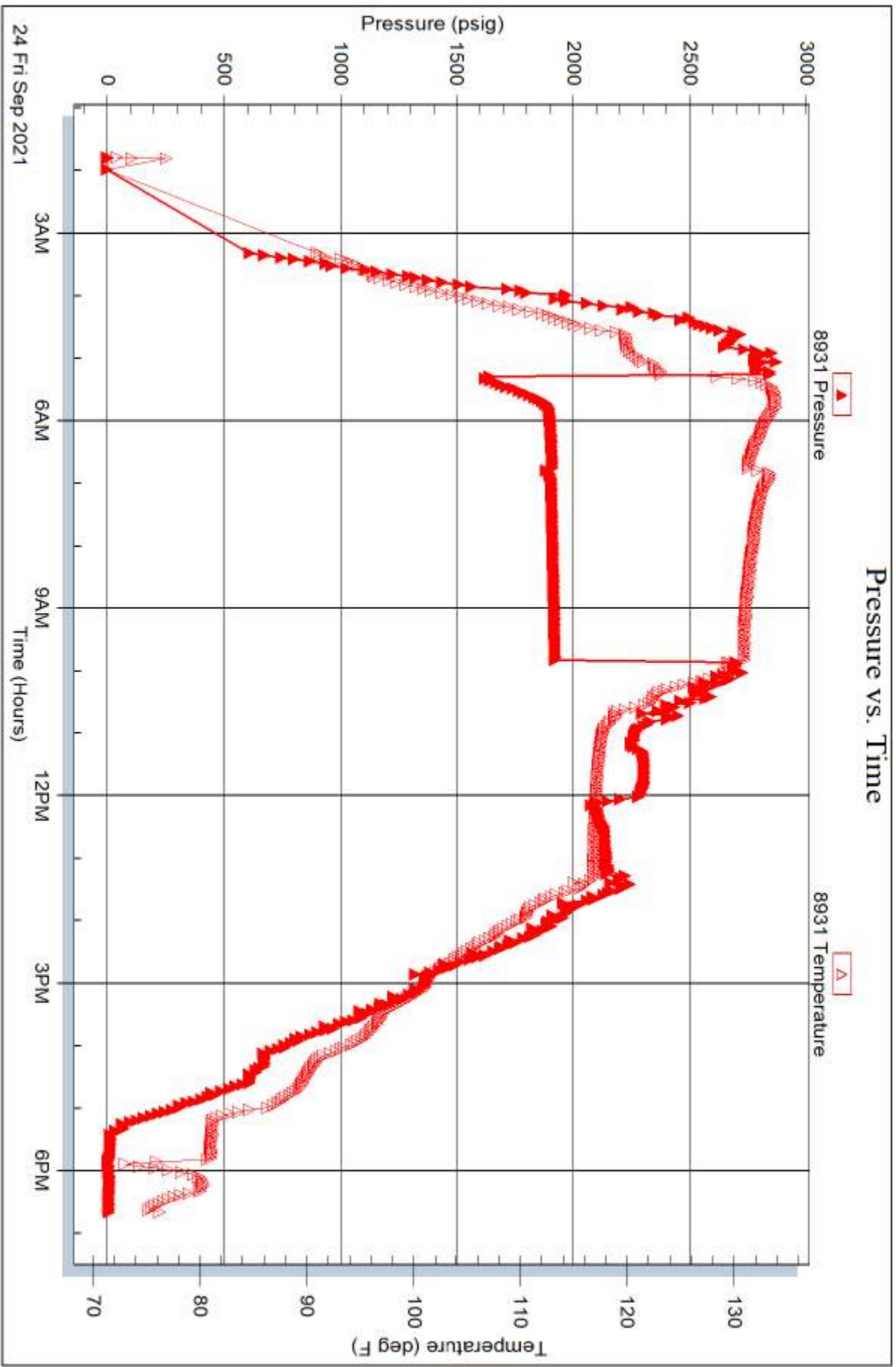
Laboratory Name:

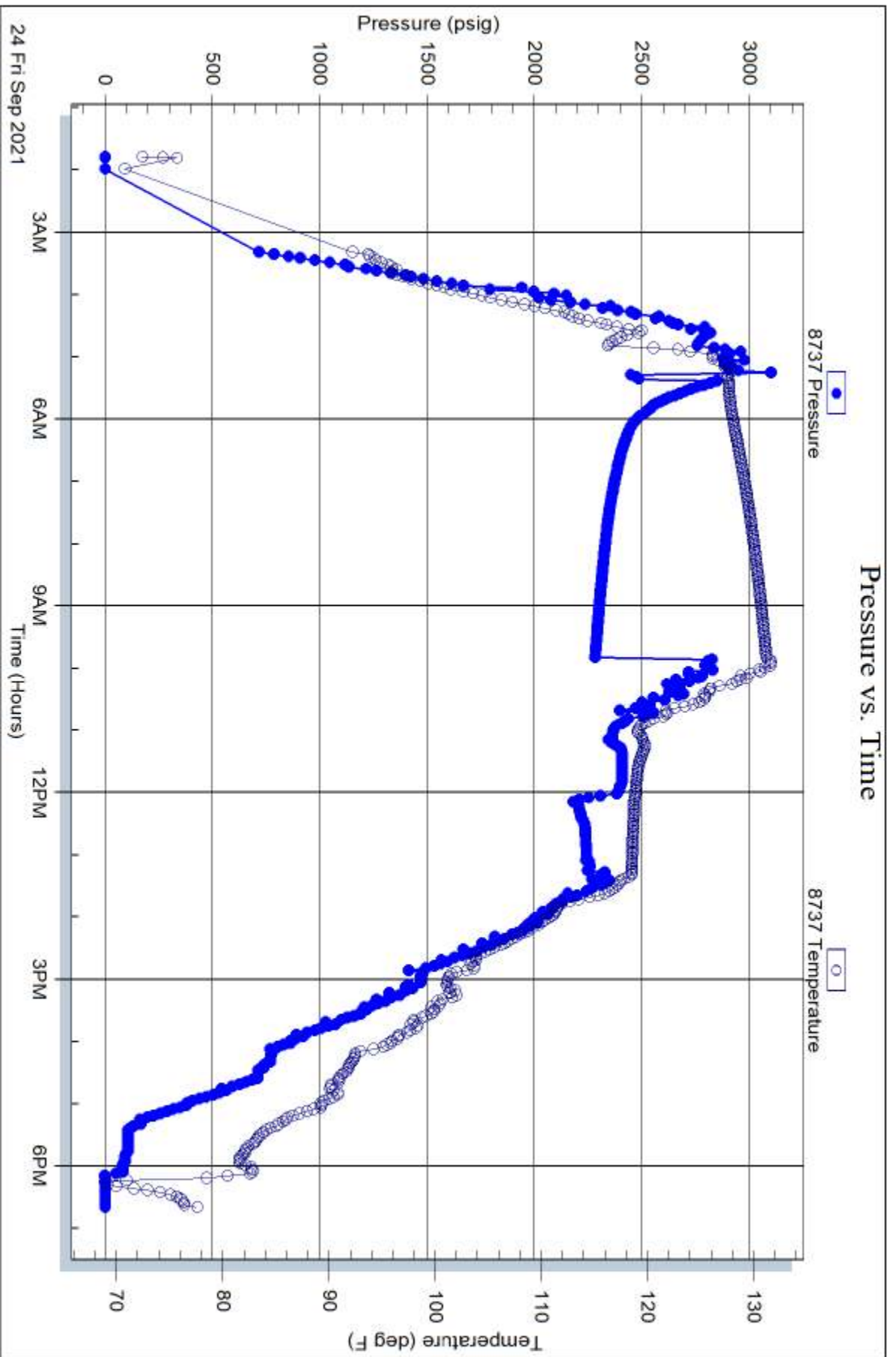
Laboratory Location:

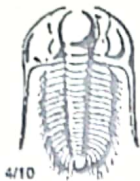
Recovery Comments: RW is .06 @ 78 Degrees = 66,000 Chlorides.

Gravity w s 38.6 @ 86 Degrees. 36 @ 60 Corrected.









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67578

Well Name & No. Shotton Unit 6-1 Test No. 1 Date 9/17/21
 Company Thoroughbred Associates, LLC Elevation 2129 KB 2122 GL
 Address 8100 E 22nd St. STE 6006 Wichita, KS. 67226
 Co. Rep / Geo. Aaron Young Rig Pickrell 10
 Location: Sec. 6 Twp 32s Rge. 18w Co. Comanche State KS

Interval Tested 4950 - 5003 Zone Tested Altamont
 Anchor Length 53' Drill Pipe Run 4951 Mud Wt. 9.10
 Top Packer Depth 4945 Drill Collars Run 0 Vis 62
 Bottom Packer Depth 4950 Wt. Pipe Run 0 WL 12.8
 Total Depth 5003 Chlorides 13500 ppm System LCM 2nd

Blow Description IF: Strong Blow. B.O.B. in 30 sec. Built to 185.87"
ISI: No Blow.
FF: Strong Blow. B.O.B. immediately. Built to 166.07"
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>4415</u>	<u>G.I.P.</u>	<u>100</u>			
<u>24</u>	<u>USOWCM</u>		<u>2</u>	<u>2</u>	<u>96</u>
<u>64</u>	<u>150 GVSOWCM</u>	<u>5</u>	<u>2</u>	<u>1</u>	<u>92</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 88' Fluid BHT 110° Gravity N/A API RW N/A @ — °F Chlorides 13500 ppm

(A) Initial Hydrostatic <u>2364</u>	<input checked="" type="checkbox"/> Test <u>1550</u>	T-On Location <u>1205</u>
(B) First Initial Flow <u>47</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1500</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1800</u>
(D) Initial Shut-In <u>1069</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2152</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0106</u>
(F) Second Final Flow <u>58</u>	<input checked="" type="checkbox"/> Mileage <u>116</u> → Pratt <u>145</u>	Comments
(G) Final Shut-In <u>1022</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2354</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>75</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2020</u>
	Sub Total <u>2020</u>	MP/DST Disc 1

Approved By _____ Our Representative Matthew A. Smith
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tests lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67579

Well Name & No. Shotton Unit 6-1 Test No. 2 Date 9/19/21
 Company Thoroughbred Associates, LLC Elevation 2129 KB 2122 GL
 Address 8100 E. 22nd St. STE C0006 Wichita, KS, 67226
 Co. Rep / Geo. Claron Young Rig Picknell 10
 Location: Sec. 6 Twp 32s Rge. 18w Co. Comanche State KS

Interval Tested 5105 - 5181 Zone Tested Mississippian
 Anchor Length 76' Drill Pipe Run 5078 Mud Wt. 8.6
 Top Packer Depth 5100 Drill Collars Run 2 Vis 60
 Bottom Packer Depth 5105 Wt. Pipe Run 2 WL 11.2
 Total Depth 5181 Chlorides 13000 ppm System LCM 1 1/2"

Blow Description FF: Strong Blow. B.O.B. in 1-min. Built to 220.13"
ISI: Weak Blow. Built to 3/4"
FF: Strong Blow. B.O.B. immediate. BTS. in 20 mins. Gauged Gas. Built to 144"
FSI: Weak Blow. Built to 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
4872	G.I.P.	100			
99	GOSM	3			97

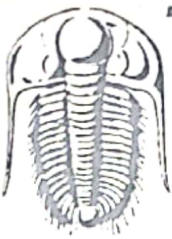
Rec Total 99' Fluid BHT 110° Gravity N/A API RW N/A @ — °F Chlorides 13000 ppm

(A) Initial Hydrostatic	<u>2469</u>	<input checked="" type="checkbox"/> Test	<u>1550</u>	T-On Location	<u>0342</u>
(B) First Initial Flow	<u>56</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>0453</u>
(C) First Final Flow	<u>56</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>0734</u>
(D) Initial Shut-In	<u>572</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1118</u>
(E) Second Initial Flow	<u>48</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>1341</u>
(F) Second Final Flow	<u>52</u>	<input checked="" type="checkbox"/> Mileage <u>116</u> <u>Pratt</u>	<u>145</u>	Comments	<u>* Gas Sample P-15</u>
(G) Final Shut-In	<u>439</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2404</u>	<input type="checkbox"/> Straddle			

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 60

Sub Total 2020 MP/DST Disc't —

Approved By _____ Our Representative Matthew Smith
 Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRIOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

9/19/21
Ticket # 67579

GAS VOLUME REPORT

Throughbred Associates, LLC Pickrell 10 Shotton Unit 6-1 (Comanche Co., KS) Mississippi 2
OPERATOR WELL NAME AND NO. DST NO.

IF:

FF:

Mln.	Ins. of Water PSIG	Orifice Size	CF/D	Mln.	Ins. of Water PSIG	Orifice Size	MC/D	ATMS 2000
30	5.04	1/8"	6.89	30	5.04	1/8"	6.89	7.28
				40	4.42	1/8"	6.68	7.04
				50	3.79	1/8"	6.47	6.81
				60	3.37	1/8"	6.25	6.65

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67580

Well Name & No. Shotton Unit 6-1 Test No. 3 Date 9/22/21
 Company Thoroughbred Associates, LLC Elevation 2129 KB 2122 GL
 Address 8100 E 22nd St. STE 6006 Wichita, KS. 67226
 Co. Rep / Geo. Aaron Young Rig Pickrell 10
 Location: Sec. 6 Twp 32S Rge. 18W Co. Comanche State KS

Interval Tested 5650 ~ 5716 Zone Tested Viola
 Anchor Length 66' Drill Pipe Run 5648 Mud Wt. 9.0
 Top Packer Depth 5645 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 5650 Wt. Pipe Run 0 WL 14.0
 Total Depth 5716 Chlorides 10,500 ppm System LCM 7[#]

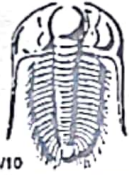
Blow Description IF: Fair Blow. Built to 9.19"
ISI: No Blow.
FF: Strong Blow. Bio.B. in 4-mins. Built to 39.97"
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>736</u>	<u>G.I.P.</u>	<u>100</u>			
<u>53</u>	<u>GVSOCM</u>	<u>1</u>	<u>1</u>		<u>98</u>
<u>64</u>	<u>GSOCM</u>	<u>29</u>	<u>7</u>		<u>64</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 117' Fluid BHT 121° Gravity N/A API RW N/A @ — °F Chlorides 10,500 ppm

(A) Initial Hydrostatic <u>2690</u>	<input checked="" type="checkbox"/> Test <u>1550</u>	T-On Location <u>0245</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0320</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0648</u>
(D) Initial Shut-In <u>1763</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1052</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1343</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>1167 feet</u> <u>145</u>	Comments
(G) Final Shut-In <u>1899</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2688</u>	<input type="checkbox"/> Straddle	
Initial Open <u>45</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>75</u>	<input checked="" type="checkbox"/> Day Standby <u>X¹⁵ 2</u> 2d 13h	Sub Total <u>1233.33</u>
	<input type="checkbox"/> Accessibility	Total <u>3503.33</u>
	Sub Total <u>2270</u>	MP/DST Disc't

Approved By _____ Our Representative Matthew A. Smith
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67581

Well Name & No. Shelton Unit 6-1 Test No. 4 Date 9/24/21
 Company Thoroughbred Associates LLC Elevation 2129 KB 2122 GL
 Address 8100 E 22nd St. STE 6006 Wichita, KS 67226
 Co. Rep / Geo. Caren Young Rig Picknell 10
 Location: Sec. 6 Twp 32S Rge. 18W Co. Comanche State KS

Interval Tested 5722 - 5744 Zone Tested U Viola
 Anchor Length 22' (Tail 212) Drill Pipe Run 5720 Mud Wt. 8.95
 Top Packer Depth 5717 Drill Collars Run 8 Vls 54
 Bottom Packer Depth 5722 Wt. Pipe Run 8 WL 13.60
 Total Depth 5956 Chlorides 11400 ppm System LCM 4th

Blow Description IF: Strong Blow. B.O.B. in 20 secs. G.T.S. in 28 mins. Built over 800"
ISI: Strong Blow. B.O.B. immediate after 8 min, bleed off. Built to 409.59"
FF: Strong Blow. B.O.B. + G.T.S. immediate Gauged Case Built to 197.18"
FSI: Strong Blow. B.O.B. in 45 secs. after bleed off. Built to 718.56"

Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>GOCM</u>	<u>25</u>	<u>40</u>	<u>35</u>	<u></u>
<u>1,024¹¹⁰²⁴</u>	<u>ACO</u>	<u></u>	<u>100</u>	<u></u>	<u></u>
<u>1216</u>	<u>HO</u>	<u></u>	<u>100</u>	<u></u>	<u></u>
<u>1344</u>	<u>G50MCW</u>	<u>1</u>	<u>7</u>	<u>91</u>	<u>1</u>
<u>576</u>	<u>GVS0MCW</u>	<u>2</u>	<u>5</u>	<u>91</u>	<u>2</u>

Rec Total 4,192' Fluid BHT 122^b Gravity 36@60 API RW 206 @ 78 °F Chlorides 66000 ppm

- (A) Initial Hydrostatic 2846
- (B) First Initial Flow 1546
- (C) First Final Flow 1893
- (D) Initial Shut-In 1912
- (E) Second Initial Flow 1873
- (F) Second Final Flow 1912
- (G) Final Shut-In 1923
- (H) Final Hydrostatic 2412

- Test 1550
- Jars 250
- Safety Joint 75
- Circ Sub 50
- Hourly Standby 600
- Mileage 116 → Pratt 145
- Sampler
- Straddle 600
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

- T-On Location 2005
- T-Started 0147
- T-Open (S:15) 0515
- T-Pulled 0954
- T-Out 1839
- Comments Gas Sample
P-TC MAT
704' C.O. Blew out.
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2670
- MP/DST Disc't

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 120

Approved By _____ Our Representative Matthew J. Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Shotton Unit #6-1
API: 15-033-21790
Location: Section 06 - T32S - R18W
License Number: 31514
Spud Date: 09/08/2021
Surface Coordinates: 1236' FNL and 2556' FWL

Region: Comanche Co., KS
Drilling Completed: 09/23/2021

Bottom Hole
Coordinates:
Ground Elevation (ft): 2122' K.B. Elevation (ft): 2129'
Logged Interval (ft): 4300' To: 5955' Total Depth (ft): 5955'
Formation: Simpson Sh
Type of Drilling Fluid: Chemical - MudCo

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Thoroughbred Associates L.L.C
Address: 8100 E 22nd ST STE 600
Wichita, KS 67226+2307

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/5	RR	15-15-15	690'	540'	7.25
2	7-7/8	H6517	15-15-14	5181'	4491'	165.75
3	7-7/8	H6537	15-15-14	5955'	774'	66.25

Surveys: 690'-.75, 5003'-1, 5716'-.75

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 35,000-38,000 lbs. on bit and approx 70 RPM.

Running 7.5 stands of collars; 447.98'

Pumping approx 800 psi at standpipe @ 60 SPM

Daily Status

09-02-21Koda Services drilled rathole and 150' for conductor casing.

09-03-21Koda Services cemented conductor casing.

09-07-21Begin MIRT. Pickrell Drilling has the contract, Rig #10.

09-08-21Finish MIRT. Drilled from 150' - 690', cut 540'.

-Spud well @ 4:30 PM on 09/08/21.

-Ran 16 jts of 23# J-55 8-5/8" surface casing, set @ 690' (tallied 680').

09-09-21Circ @ 690', waiting on cement crew to arrive. Cementer started @ 1:30PM.

-Cemented w/235 sxs H-Lite, 3% cc, followed by 100 sxs Class A, 2% cc, 1/4#

celflake. Job completed by Hurricane. Cement did circulate.

-Plug down @ 2:30 PM on 09/09/21.

09-10-21Drilling ahead @ 771', cut 81'.

09-11-21Drilling ahead @ 1865', cut 1094'.

09-12-21Drilling ahead @ 2660', cut 795'.

09-13-21Drilling ahead @ 3250', cut 590'.

09-14-21Drilling ahead @ 3800', cut 550'.

09-15-21Drilling ahead @ 4215', cut 415'.

09-16-21Drilling ahead @ 4738', cut 523'.

09-17-21Drilling ahead @ 5003', cut 265'.

09-18-21Cleaning out bottom drill collar before going back in hole, came out of hole w/plugged bit @ 5003' after DST #1.

-DST #1 4950-5003 (Altamont) 30-60-60-75.

09-19-21Tripping in hole w/tool for DST #2 (Miss) @ 5181', cut 178'.

-DST #2 5105-5181 (Miss) 30-60-60-60.

09-20-21Drilling ahead @ 5375', cut 194'.

-Apparently 2' added to GL & KB during construction so new GL: 2122'; KB: 2129'. All tops have been revised.

09-21-21Short trip @ 5590', cut 215'. Approx 50' above Viola, probably be back to drilling about 9:30 am and be in Viola mid-afternoon.

09-22-21Testing @ 5716', cut 126'. DST #3 5650-5716 (Viola)

-DST #3 5650-5716 (Viola) 45-60-60-75.

09-23-21Anticipate loggers to be done by 11:45; testers will be waiting. DST #4 5722-5744

-DST #4 5722-5744 (Viola) 30-60-60-120.

Tool slid 4'. Top packer held but water is likely from the bottom 4' of zone, which we were trying to avoid with straddle.

09-25-21RTD 5955'. LTD 5956'. Heading in hole to condition and start laying down drill pipe.

09-26-21Waiting on Completion Rig, TOH w/DST, TIH w/bit, CTCH, LDDP, LDDC then ND to run casing. Rig over f/casing. Wyoming Casing Crew ran 142 jts new 5-1/2" 15.5# MW-55 R-3 csg, tallied 5943.91'; Shoe jt 42.46', latch down @ 5907' & marker jt @ 5254'. Pipe set @ 5951' KB, 5' off bottom.

142 jts 5943.91' 5-1/2" 15.5# new csg (5' off bottom)

latch down baffle plate

1 42.46' 5-1/2" shoe jt

Turbo-Centralizers @ 5908'; 5823'; 5781'; 5741'; 5699'; 5296'; 5254'; 5212'; 5169'; 5127'; 5044' and 5001'.

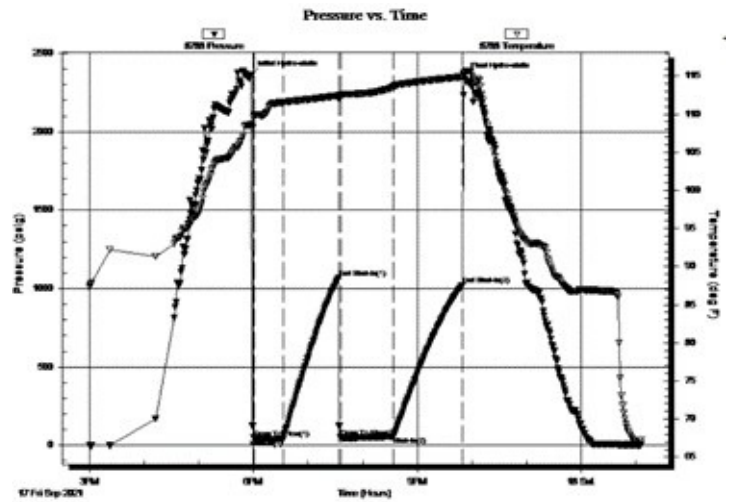
RU Hurricane Services. Circ drlg mud f/1 hr while reciprocating drill pipe. Switch to cementing production csg string. Cemented w/70 sx H Plug scavenger cement followed w/175 sxs H LD. Good circulation throughout. Landed plug w/1500# standing @ 3:30pm on 09/25/21, latch down held. Plug rathole w/30 sxs H Plug. Set slips, jet pits and release rig @ 5:30pm 9/25/21. Equipment left on location: 1 jt 5-1/2" csg, tallied 36.10' threads off.

DST #1 Altamont 4950'-5003' 30"-60"-60"-75"

IF: BOB in 30 sec. Built to 185.87"
SI: No return
FF: BOB immed. Built to 166.07"
FSI: No return

Rec'd: 64' GVSOWCM (5% G, 2% O, 1% W, 92% M), 24'
VSOWCM (2% O, 2% W, 96% M), 4415' GIP

SIP: 1069-1022#
FP: 47-42#, 49-58#
HP: 2364-2354#



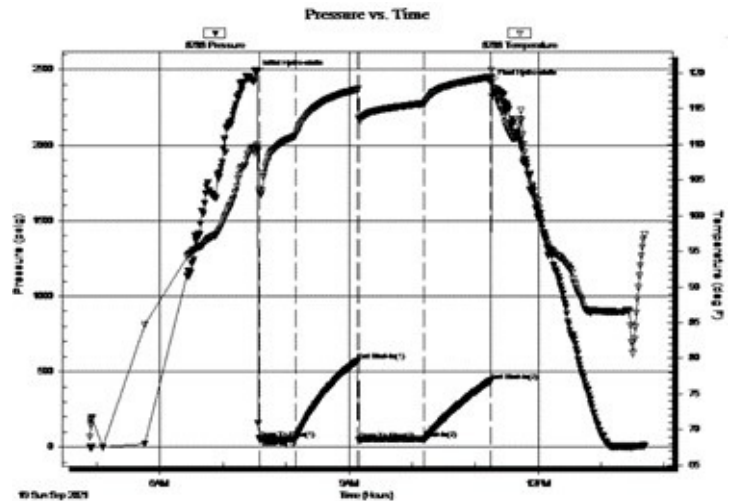
DST #2 Mississippi 5105'-5181' 30"-60"-60"-60"

IF: BOB in 1 min. Built to 220"
SI: Weak blow, built to 3/4"
FF: BOB immed. GTS in 20 min, gauged gas, built to 144"
FSI: Weak blow, built to 3/4"

Rec'd: 99' GOSM (3% G, 97% M), 4872' GIP

Gauged 6.25 mcf /d

SIP: 572-439#
FP: 56-56#, 48-52#
HP: 2469-2404#

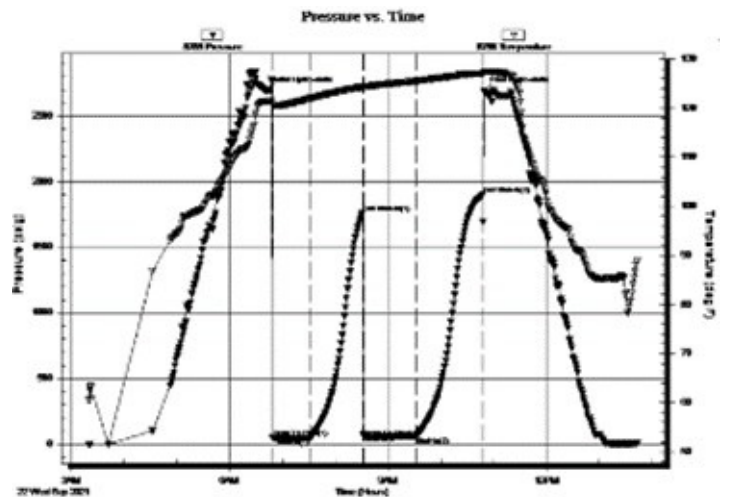


DST #3 Viola 5650'-5716' 45"-60"-60"-75"

IF: Fair blow. Built to 9.19"
SI: No blow
FF: BOB in 4 min, Built to 40"
FSI: No blow

Rec'd: 64' GSOCM (29% G, 7% O, 64% M), 53' GVSOCM
(1% G, 1% O, 98% M), 736' GIP

SIP: 1763-1899#
FP: 51-44#, 54-60#
HP: 2690-2688#



DST #4 Straddle Viola 5722'-5744' 30"-60"-60"-120"

Tool slid 4' to bottom 2 min into IF

IF: BOB in 20 sec, GTS in 28 min, built to over 800"

SI: BOB immed. after 8 min bleedoff, built to 410"

FF: BOB & GTS immed. Gauged gas, built to 197"

FSI: BOB in 45 sec after bleedoff, built to 719"

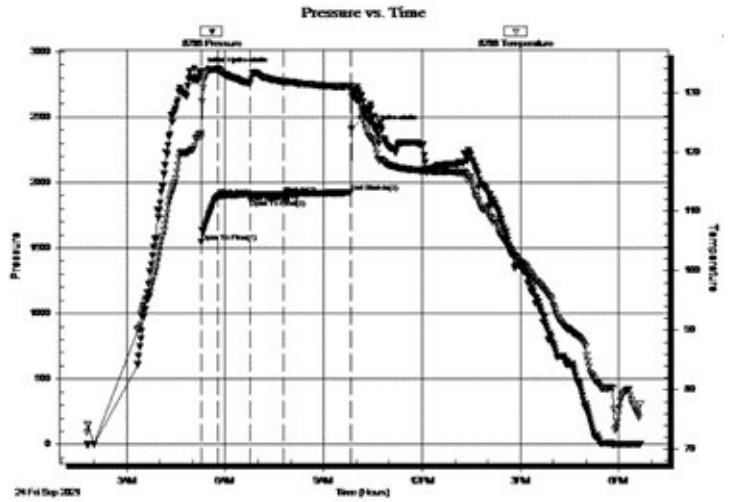
Rec'd: 576' GVSOMCW (2% G, 5% O, 2% M, 91% W),
 GSOMCW (1% G, 7% O, 1% M, 91% W), 1216' HO (100%
 O), 1024' CO, (100% O), GOCM (25% G, 40% O, 35% M),
 704' GCO blew out of swivel

Gauged 5.95 mcf/d

SIP: 1912-1923#

FP: 1546-1893#, 1873-1912#

HP: 2846-2412#



ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Sltstn
- Shlyslts
- SltysH
- Lms

ACCESSORIES

- #### MINERAL
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Brecfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp
 - Hvymin
 - Kaol
 - Marl
 - Minxl
 - Nodule
 - Phos
 - Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

- #### FOSSIL
- Algae
 - Amph
 - Belm
 - Bioclst
 - Brach
 - Bryozoa
 - Cephal
 - Coral
 - Crin
 - Echin
 - Fish
 - Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryst
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- F Fenest
- X Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- r Subrnd
- a Subang
- A Angular

OIL SHOWS

- Even
- ◉ Spotted
- ◐ Ques
- ◑ Dead
- ⊠ Gas show

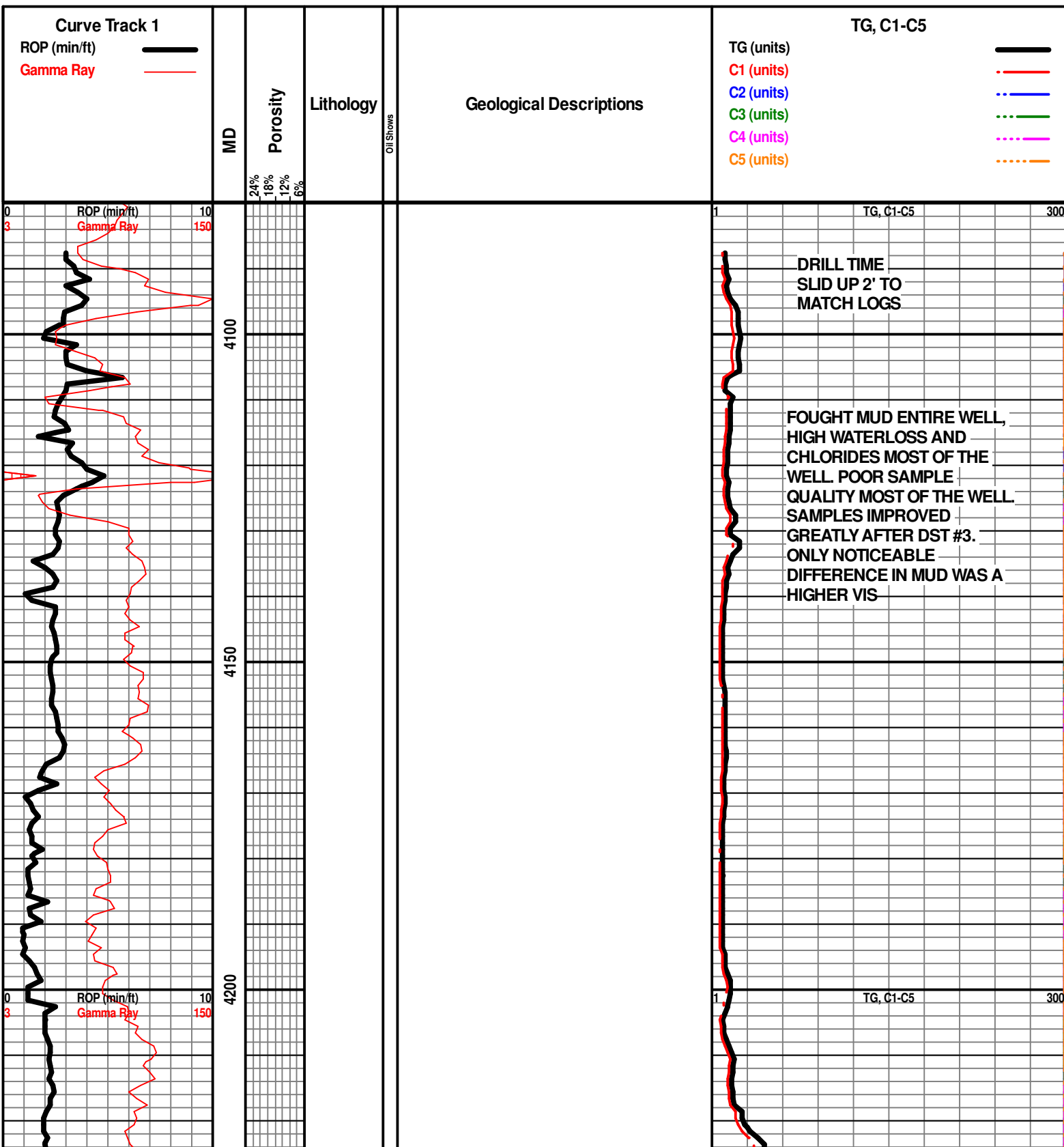
INTERVALS

- Core
- ◻ Dst

- Dst

EVENTS

- ▽ Rft
- ▾ Sidewall
- ▬ Conn





4250
4300
4350
4400



SH - BLK, CARB, SLI SHO OF GAS

SH - GY / GRN / RD-ORNG, W/ LS - DK GY / GY / TAN, F XLN, MOD DNS / DNS, FOSS

SH - BLK, CARB, G SHO GAS BUB

LS - DK TAN / TAN, F / M XLN, DNS, FOSS, W/ SH - LT GY / LT GRN / MAR

LS - CRM / TAN, F / VF XLN IN PT, PRED DNS / MOD DNS, SUBCHKY IN PT

SH - BLK, SLI CARB, LS - CRM, F XLN, MOD DNS / DNS, W/ SH - GRN / RDISH-ORNG

LS - WHT / CRM, VF XLN, SUBCHKY / CHKY, W/ LS - TAN, F / M XLN, MOD DNS / DNS, FOSS

SH - LT GY, SLI SLTY

SS - CLR / GY, VF GR, SUB-ANG, W SORTED, W CEM, DNS, ABUND GRN GLAUC SPECS, W/ SH - LT GY, SLTY

LS - CRM / TAN, F XLN, MOD DNS, FOSS, W/ SH - GY

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/ SH - GY

SH - GY, SNDY IN PT

SH - LT GY / GY, SNDY IN PT, SLTY IN PT

SH - LT GY / GY

SH - LT GY, SLTY

Mud-Co
WT 9.0
VIS 53
LCM 2#
FILTR 13.8
CHLR 15,000

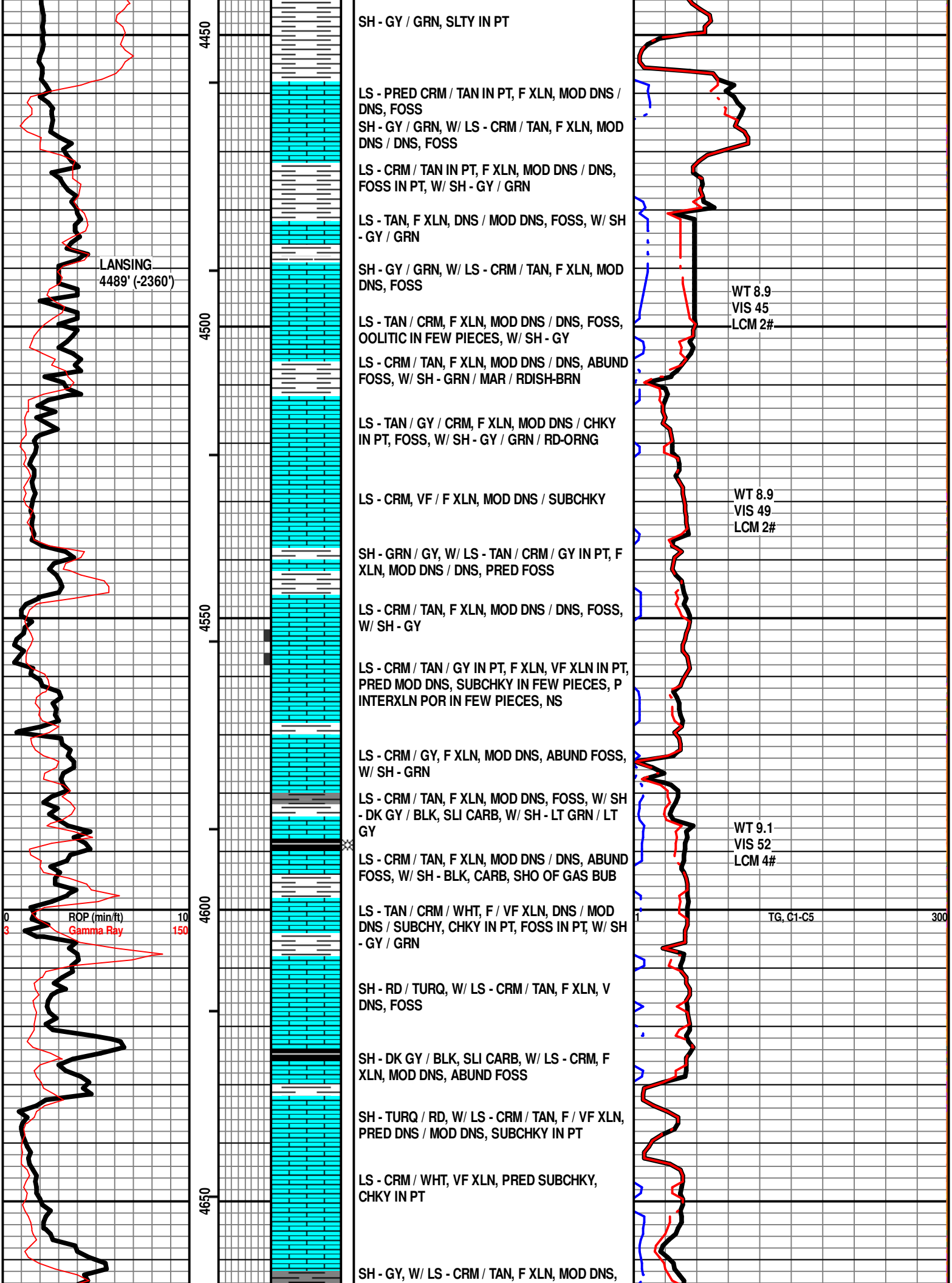
HEEBNER
4301' (-2172')

DOUGLAS
4372' (-2243')

WT 8.7
VIS 47
LCM 3#

TG, C1-C5

300



SH - GY / GRN, SLTY IN PT

LS - PRED CRM / TAN IN PT, F XLN, MOD DNS / DNS, FOSS

SH - GY / GRN, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN IN PT, F XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - GY / GRN

LS - TAN, F XLN, DNS / MOD DNS, FOSS, W/ SH - GY / GRN

SH - GY / GRN, W/ LS - CRM / TAN, F XLN, MOD DNS, FOSS

LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS, OOLITIC IN FEW PIECES, W/ SH - GY

LS - CRM / TAN, F XLN, MOD DNS / DNS, ABUND FOSS, W/ SH - GRN / MAR / RDISH-BRN

LS - TAN / GY / CRM, F XLN, MOD DNS / CHKY IN PT, FOSS, W/ SH - GY / GRN / RD-ORNG

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY

SH - GRN / GY, W/ LS - TAN / CRM / GY IN PT, F XLN, MOD DNS / DNS, PRED FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/ SH - GY

LS - CRM / TAN / GY IN PT, F XLN, VF XLN IN PT, PRED MOD DNS, SUBCHKY IN FEW PIECES, P INTERXLN POR IN FEW PIECES, NS

LS - CRM / GY, F XLN, MOD DNS, ABUND FOSS, W/ SH - GRN

LS - CRM / TAN, F XLN, MOD DNS, FOSS, W/ SH - DK GY / BLK, SLI CARB, W/ SH - LT GRN / LT GY

LS - CRM / TAN, F XLN, MOD DNS / DNS, ABUND FOSS, W/ SH - BLK, CARB, SHO OF GAS BUB

LS - TAN / CRM / WHT, F / VF XLN, DNS / MOD DNS / SUBCHY, CHKY IN PT, FOSS IN PT, W/ SH - GY / GRN

SH - RD / TURQ, W/ LS - CRM / TAN, F XLN, V DNS, FOSS

SH - DK GY / BLK, SLI CARB, W/ LS - CRM, F XLN, MOD DNS, ABUND FOSS

SH - TURQ / RD, W/ LS - CRM / TAN, F / VF XLN, PRED DNS / MOD DNS, SUBCHKY IN PT

LS - CRM / WHT, VF XLN, PRED SUBCHKY, CHKY IN PT

SH - GY, W/ LS - CRM / TAN, F XLN, MOD DNS,

LANSING
4489' (-2360')

WT 8.9
VIS 45
LCM 2#

WT 8.9
VIS 49
LCM 2#

WT 9.1
VIS 52
LCM 4#

TG, C1-C5

300

4650

4600

4550

4500

4450

ROP (min/ft)

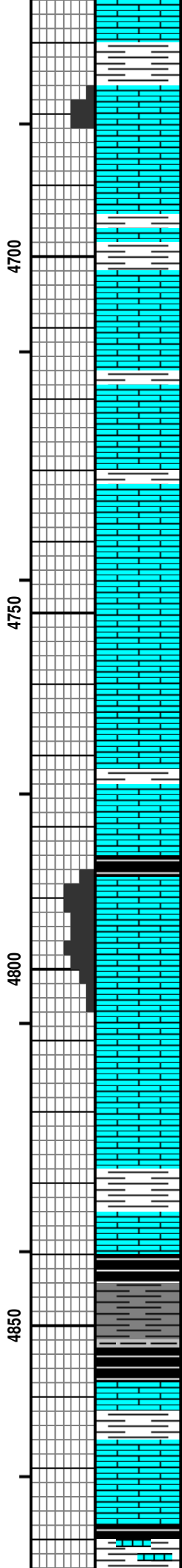
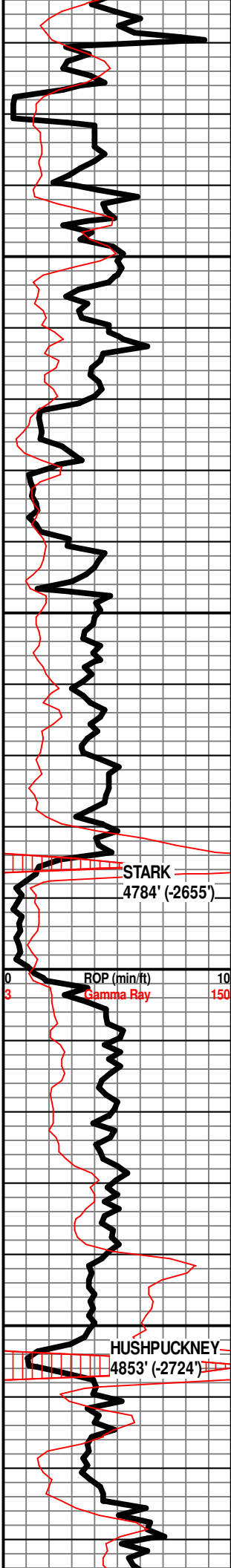
Gamma Ray

0

3

10

150



FOSS

SH - GRN / GY, W/ LS - TAN / CRM, MOD DNS / DNS, SUBCHK IN PT, FOSS IN PT

LS - CRM, F XLN, F / G OOLMOLIC POR, NS, NO ODOR, W/ LS - LT GY / TAN, F / M XLN, DNS, FOSS

SH - RDISH-BRN / GY / GRN, W/ LS - TAN / CRM, F / M XLN, MOD DNS / DNS, ABUND FOSS

LS - CRM, F / VF XLN, MOD DNS / SUBCHKY, ABUND FOSS IN PT, W/ SH - GY

LS - CRM / WHT IN PT, VF XLN, MOD DNS / SUBCHKY, CHKY IN PT

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W/ SH - GY, V SOFT IN PT

LS - CRM, F XLN, P / F OOLMOLDIC POR IN PT, NS, NO ODOR, W/ SH - MAR / GY / GRN IN PT

LS - TAN / CRM / GY, F / M XLN, V DNS, FOSS

LS - CRM, VF XLN, SUBCHKY / CHKY

LS - CRM / LT TAN, F XLN, V DNS / DNS, FOSS IN PT

LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY, FOSS IN PT, W/ SH - GY / DK GY

SH - BLK, CARB, SHOW OF GAS BUB

LS - CRM, F XLN, G OOLMOLDIC POR, F INTERPART POR IN PT, FOSS, NS, NO ODOR

LS - CRM / TAN, F XLN, DNS, FOSS IN PT, OOLITIC IN PT, P OOLMODIC POR IN FEW PIECES, NS, NO ODOR

LS - TAN / GY, F / M XLN, DNS / MOD DNS, FOSS

LS - TAN, F / M XLN, MOD DNS / DNS, SUBCHKY IN PT, FOSS, W/ SH - GY / GRN

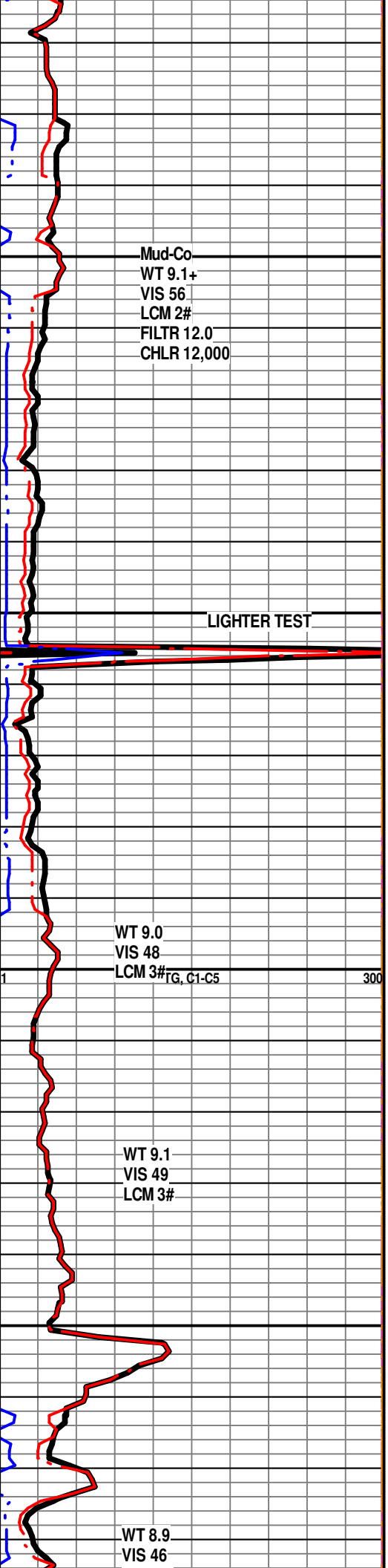
LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS, IN PT, W/ SH - BLK, CARB, SLI SHO OF GAS BUB

SH - GY / DK GY

SH - BLK, CARB, G SHO GAS

LS - GY, F / M XLN, V DNS / DNS, FOSS IN PT, W/ LS - CRM, VF XLN, MOD DNS / SUBCHKY, W/ SH - LT GRN / LT GY

SH - BLK, SLI CARB, PYRITIC IN PT, W/ LS - CRM / TAN, F / VF XLN, PRED DNS, MOD DNS / SUBCHKY IN PT, FOSS IN PT, PYRITIC IN PT



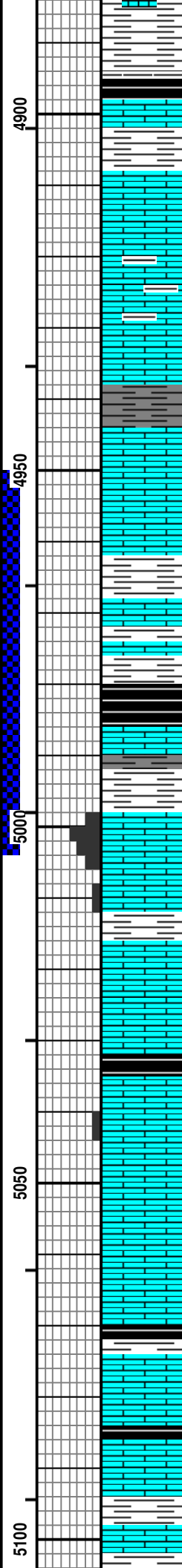
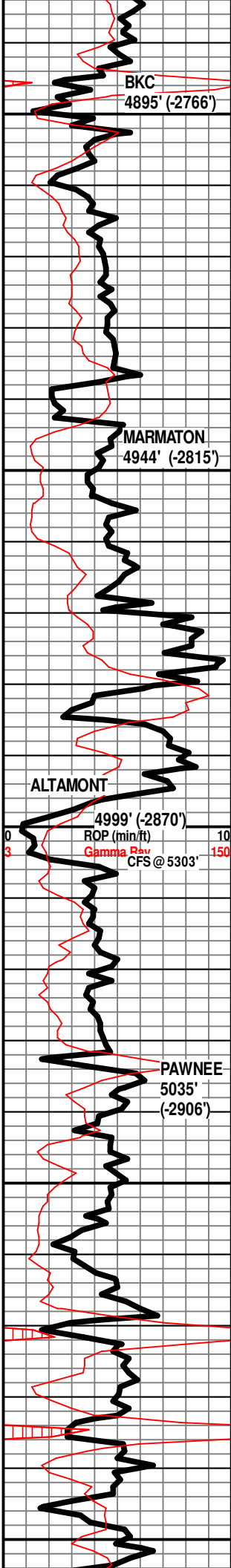
Mud-Co
WT 9.1+
VIS 56
LCM 2#
FILTR 12.0
CHLR 12,000

LIGHTER TEST

WT 9.0
VIS 48
LCM 3#
TG, C1-C5

WT 9.1
VIS 49
LCM 3#

WT 8.9
VIS 46



SH - GY, DNS, LMY IN PT

SH - BLK, CARB, W/ SH - GY / GRN

SH - GY, W/ LS - GY / TAN, F XLN, DNS, FOSS

LS - CRM, VF XLN, MOD DNS / SUBCHKY, W/ SH - GY / GRN

LS - DK GY / GY / TAN, F XLN, MOD DNS / DNS, ARG IN PT

SH - GY / GRN / RD

LS - CRM / TAN IN PT, F / VF XLN IN PT, PRED DNS / MOD DNS, SUBCHKY / CHKY IN FEW PIECES

SH - GY / GRN, W/ LS - CRM / TAN, F XLN, DNS / MOD DNS / SUBCHKY IN PT, FOSS, SCAT CRINOID STEMS

LS - CRM / TAN, F XLN, MOD DNS, FOSS, W/ SH - GY / GRN / RD

SH - BLK, CARB, W/ SH - GY / GRN, W/ LS - CRM, VF XLN, MOD DNS / SUBCHKY

LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY, W/ SH - LT GY / GRN / GY

LS - CRM, F XLN, OOLITIC, FOSS, F / G INTEROOLITIC & INTERXLN POR, OOLMODLIC POR IN PT, F SHO GAS, SSFO, LT BRN OIL, BRI YEL-GRN FLUOR

LS - CRM, F / VF XLN, P INTERXLN POR IN PT, NS, SUBCHKY IN PT, W/ SH - GRN / GY

LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY, W/ SH - GRN / GY

LS - CRM / TAN, F XLN, MOD DNS, FOSS

SH - BLK, CARB

LS - TAN / CRM, F XLN, DNS / MOD DNS, FOSS

LS - CRM / TAN, F XLN, P INTERXLN POR IN PT, ABUND FOSS IN PT, OOLITIC IN PT, SLI SHO GAS, VSSFO IN FEW PIECES

LS - TAN / CRM IN PT, F / VF XLN IN PT, PRED MOD DNS / SUBCHKY IN PT, FOSS I NPT

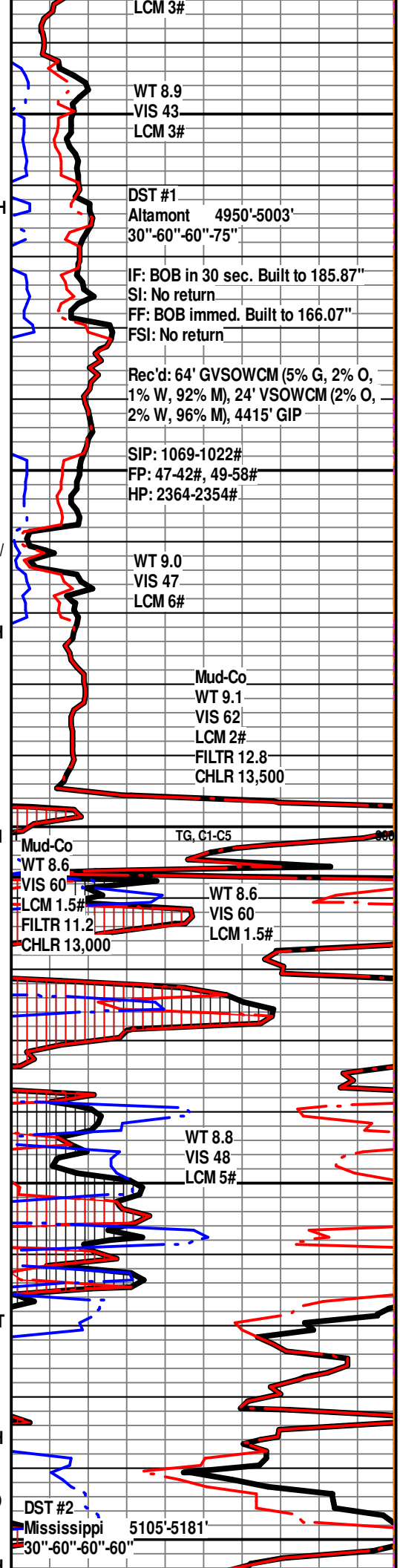
SH - BLK, CARB, SHO OF GAS, W/ LS - TAN / LT GY, F XLN, DNS / MOD DNS, FOSS

LS - TAN / CRM, F XLN, MOD DNS / DNS, FOSS, W/ SH - GY

LS - TAN / CRM, F XLN, MOD DNS, FOSS, W/ SH - DK GY / BLK

SH - GRN / GY / RD, W/ LS - CRM, VF XLN, MOD DNS / SUBCHKY

LS - TAN F / M XLN V DNS / DNS FOSS W/ SH



WT 8.9

VIS 43

LCM 3#

DST #1

Altamont 4950'-5003'

30''-60''-60''-75''

IF: BOB in 30 sec. Built to 185.87"

SI: No return

FF: BOB immed. Built to 166.07"

FSI: No return

SIP: 1069-1022#

FP: 47-42#, 49-58#

HP: 2364-2354#

WT 9.0

VIS 47

LCM 6#

Mud-Co

WT 9.1

VIS 62

LCM 2#

FILTR 12.8

CHLR 13,500

Mud-Co

WT 8.6

VIS 60

LCM 1.5#

FILTR 11.2

CHLR 13,000

TG, C1-C5

WT 8.6

VIS 60

LCM 1.5#

WT 8.8

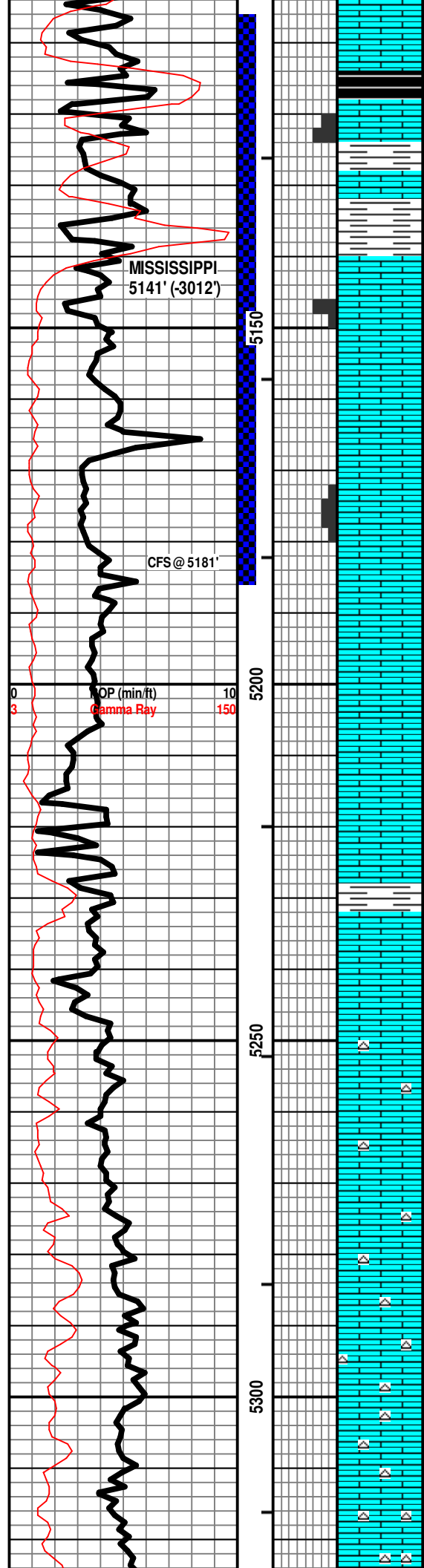
VIS 48

LCM 5#

DST #2

Mississippi 5105'-5181'

30''-60''-60''-60''



LS - TAN, F / M XLN, V DNS / DNS, FOSS, W / SH - DK GY / BLK, CARB IN PT

SH - DK GY / BLK, CARB, W / LS - TAN, F / M XLN, V DNS / DNS, FOSS

LS - CRM, F XLN, P / F INTERXLN POR IN PT, ABUND STN, ABUND OIL SHEEN, F ODOR, BRI YEL-GRN FLUOR, W / SH - DK GY / BLK, CARB, W / SH - GRN

SH - GY / GRN / MAR, W / LS - CRM, VF XLN, MOD DNS / SUBCHKY

LS - CRM, VF XLN, PRED SUBCHKY / MOD DNS, CHKY IN PT, FOSS IN PT, W / SH - GRN / GY / MAR / RD-ORNG IN PT

LS - CRM, F XLN, F INTERXLN & INTER PART POR IN PT, SSFO, V LT BRN OIL, ABUND OIL SHEEN, G SHO GAS WHEN BROKEN, BRI YEL-GRN FLUOR, ABUND FOSS

LS - TAN / CRM, F XLN, PRED DNS, P / F INTERXLN POR IN PT, SSFO, SLI ODOR, BRI YEL-GRN FLUOR, FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY

LS - CRM / TAN / GY F XLN, MOD DNS / DNS / SUBCHKY IN PT

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, BRITTLE IN PT, SUBCHKY IN PT, FEW SCAT PIECES OF V CHKY

SH - GRN / GY / MAR, PYRITIC IN PT, W / LS - CRM, VF / F XLN, MOD DNS / SUBCHKY

LS - CRM / TAN / DK TAN, VF / F / M XLN, MOD DNS / DNS, FOSS IN PT

LS - CRM, VF / F XLN, MOD DNS, SUBCHKY IN PT, FOSS

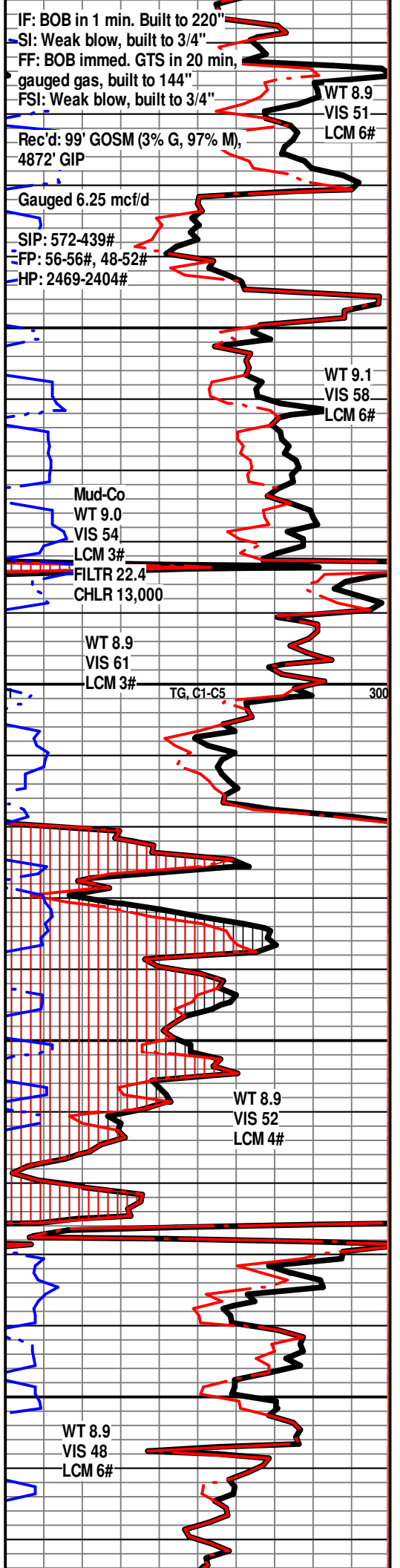
LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY IN PT, FOSS IN PT

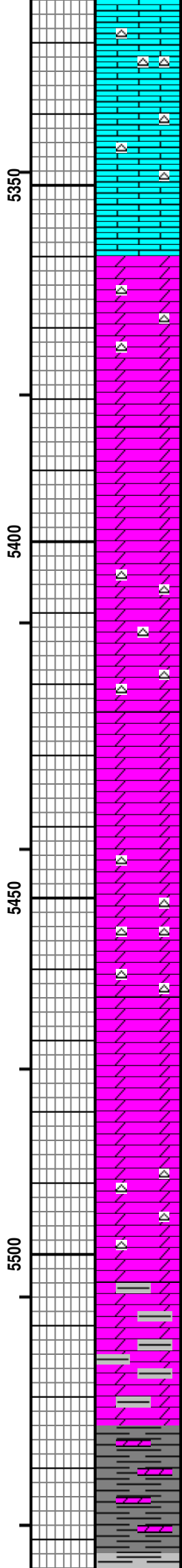
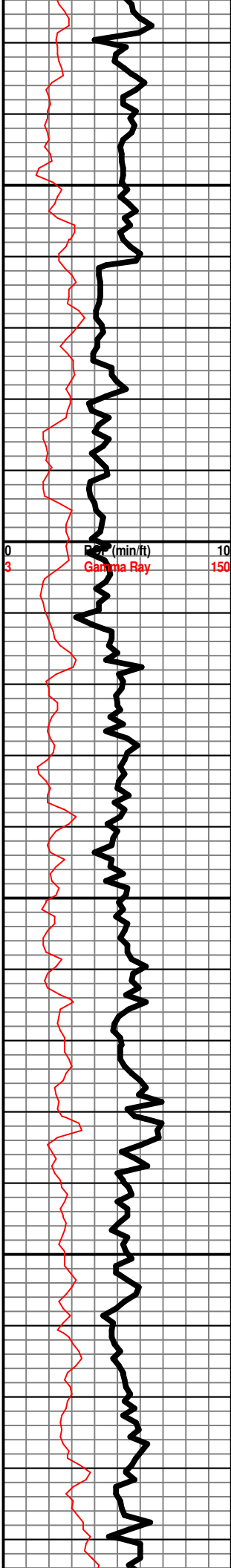
LS - CRM / TAN / BRN IN PT, F XLN, MOD DNS / DNS, FOSS, IMBEDDED CHT IN PT

LS - CRM / TAN / GY, F XLN, MOD DNS / DSN, FOSS, IMBEDDED CHT IN PT

LS - GY, F XLN, MOD DNS / DNS, FOSS, GLAUC IN PT, IMBEDDED CHT IN PT

LS - GY, F XLN, MOD DNS, BRITTLE, GLAUC, FOSS, IMBEDDED CHT IN PT





LS - GY / CRM, MOD DNS, V BRITTLE, GLAUC
IN PT, FOSS, IMBEDDED CHT IN PT

LS - GY, F XLN, MOD DNS / DNS, FOSS,
IMBEDDED CHT IN PT

DOLO - GY, F / M XLN, DNS, FOSS IN PT, W/
CHT IN PT - GY FRSH, SLI TRANSLUCNT,
SPICULITIC

DOLO - GY, F / VF XLN, MOD DNS / DNS, V DNS
IN PT

DOLO - DK GY, VF / F XLN, MOD DNS / DNS, W/
SCAT CHT - LT GY / GY / DK GY, FRSH, SLI
TRANSLUCNT IN PT, FOSS

DOLO - GY / DK GY, VF / F XLN, DNS / MOD
DNS / SUBCHKY IN PT, FOSS IN PT

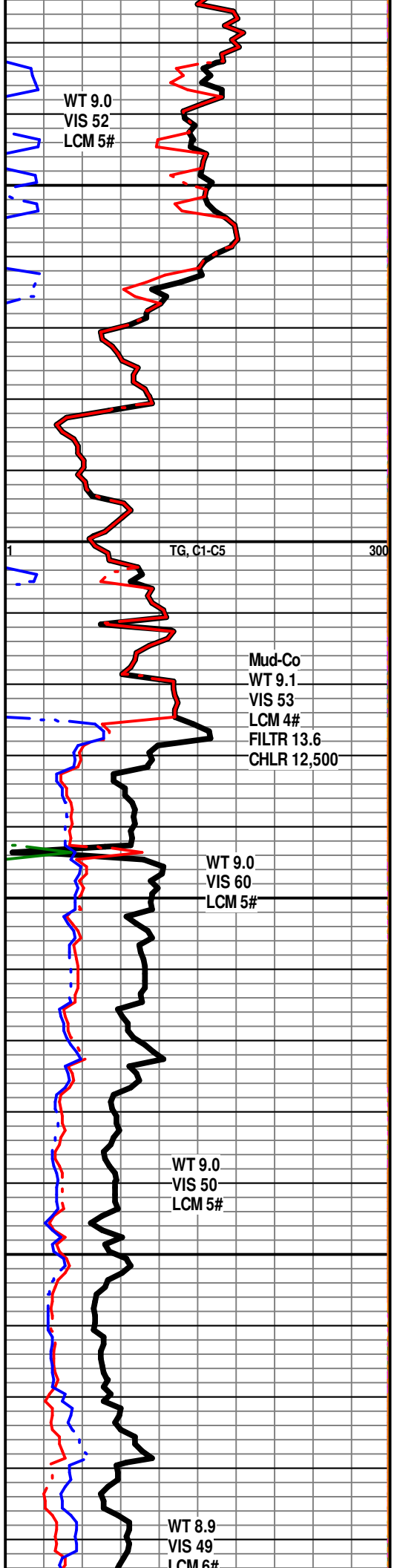
DOLO - GY, F XLN, V DNS, CHTY IN PT, FOSS

DOLO - GY / LT GY, VF / F XLN, DNS / MOD
DNS, BRITTLE IN PT

DOLO - GY, VF / F XLN, MOD DNS, BRITTLE, W/
SCAT CHT - LT GY / GY, SLI TRANSLUCNT,
FRSH, FOSS

DOLO - GY, VF / F XLN, V BRITTLE, FOSS, W/
SCAT SH - DK GY / BLK

SH - DK GY / GY, DOLOMITIC IN PT - GY, VF
XLN, BRITTLE



WT 9.0
VIS 52
LCM 5#

TG, C1-C5

Mud-Co
WT 9.1
VIS 53
LCM 4#
FILTR 13.6
CHLR 12,500

WT 9.0
VIS 60
LCM 5#

WT 9.0
VIS 50
LCM 5#

WT 8.9
VIS 49
LCM 6#

5550

5400

5450

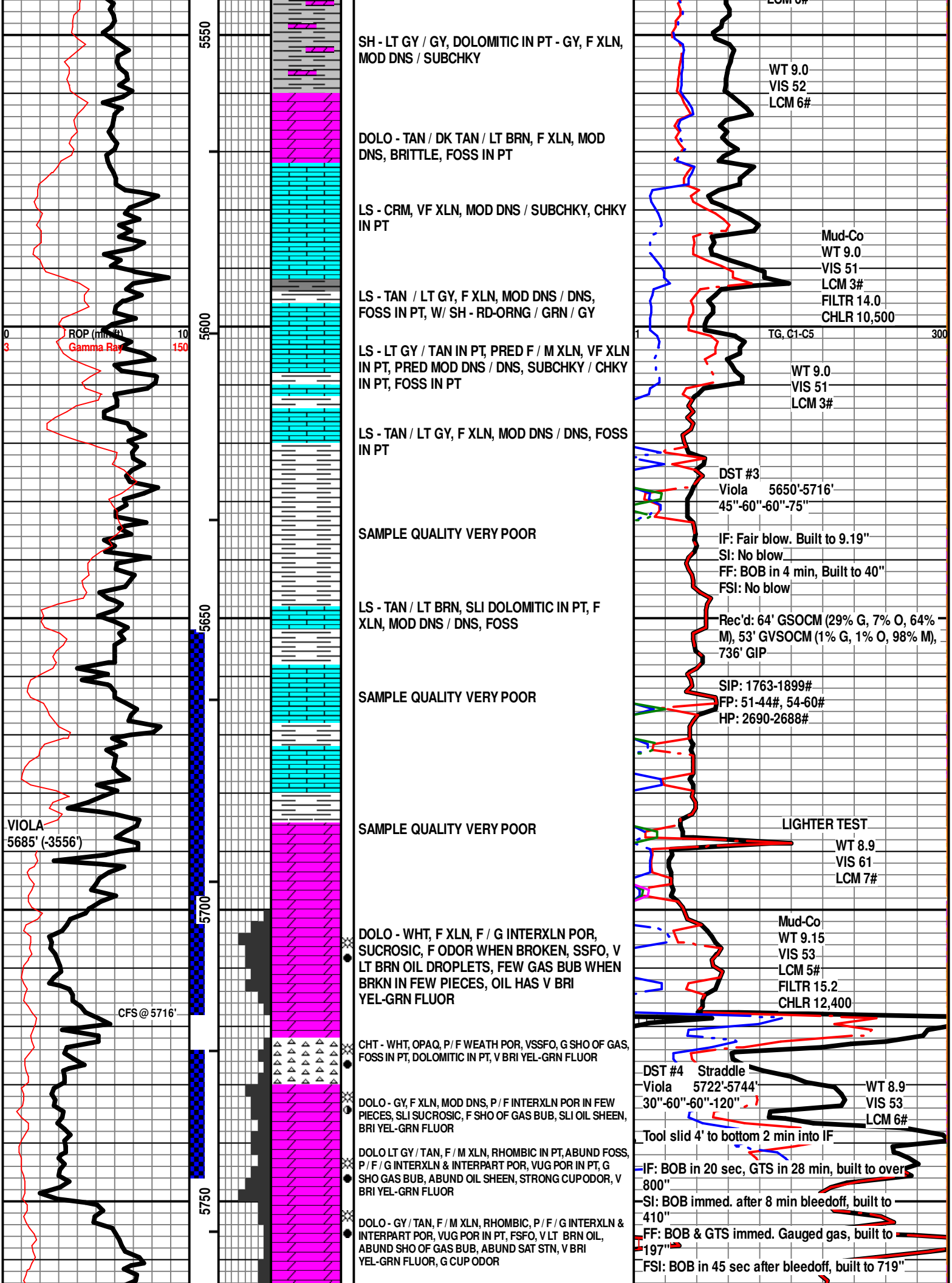
5500

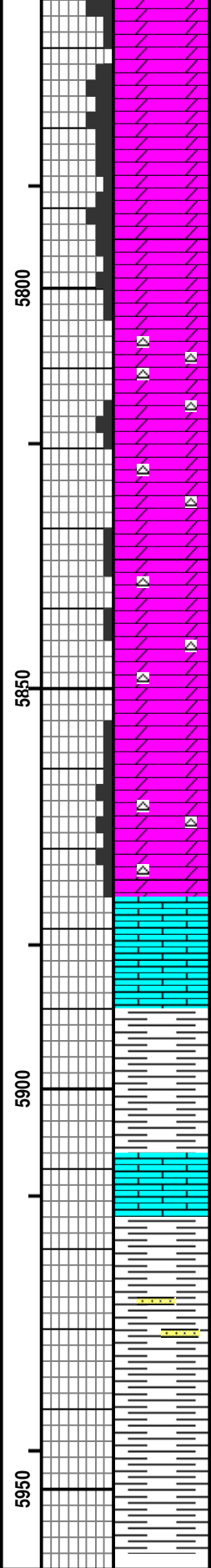
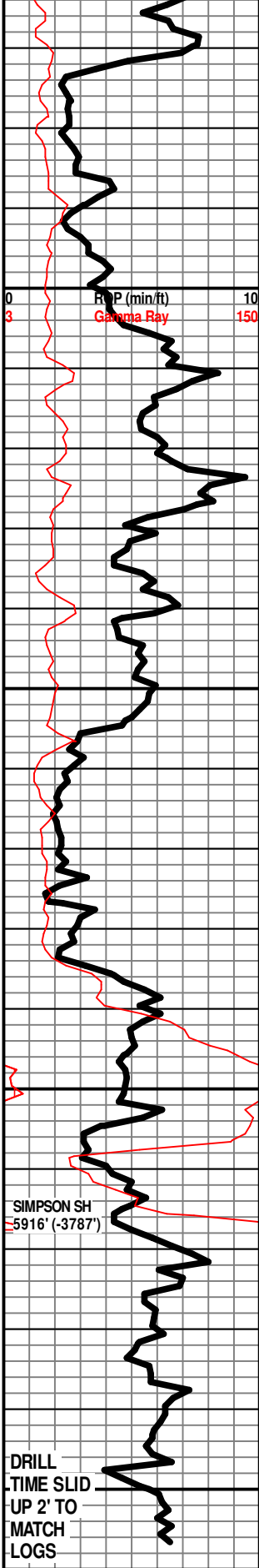
Gamma Ray
(min/ft)

0
3

10
150

300





DOLO - GY, F / M XLN, MOD DNS / DNS

DOLO - GY / TAN, F XLN, MOD DNS, P / F INTERXLN POR, SLI SUCROSIC IN PT, SSFO, G SHO OF GAS, G CUP ODOR, BRI YEL-GRN FLUO

DOLO - GY, F XLN, MOD DNS, P / F INTERXLN POR, VUG POR IN PT, SLI SUCROSIC, RHOMBIC IN PT, VSSFO IN FEW PIECES, BARRN POR IN PT, SLI SHO OF GAS IN FEW PIECES

DOLO - GY, F / M XLN, MOD DNS / DNS, P VUG POR IN PT, P INTERXLN POR IN PT, SCAT PIECES OF CHT - WHT, OPAQ, FRSH

DOLO - GY / TAN / CRM, F XLN, PRED MOD DNS / DNS, VP INTERXLN POR IN PT, SLI OIL SHEEN ACROSSA FEW PIECES WHEN BROKEN

DOLO - TAN, F XLN, MOD DNS, P INTERXLN POR IN PT, SLI SHO OF GAS, NSFO, BRI YEL-GRN FLUOR IN PT

DOLO - PRED TAN, GY / CRM IN PT, PRED DNS, SUCROSIC IN PT, P INTERXLN POR IN PT, NS

DOLO - GY, F / M XLN, DNS, VP INTERXLN & VUG POR IN PT, SHO OF GAS IN PT, VSSFO IN FEW PIECES, BRI YEL-GRN FLUOR

DOLO - GY / TAN, F XLN, MOD DNS / DNS, W/ LS - CRM, VF XLN, SUBCHKY / MOD DNS W, SCAT CHT - WHT / GY, OPAQ, FRSH, FOSS

SH - RDISH-BRN / GRN / GY

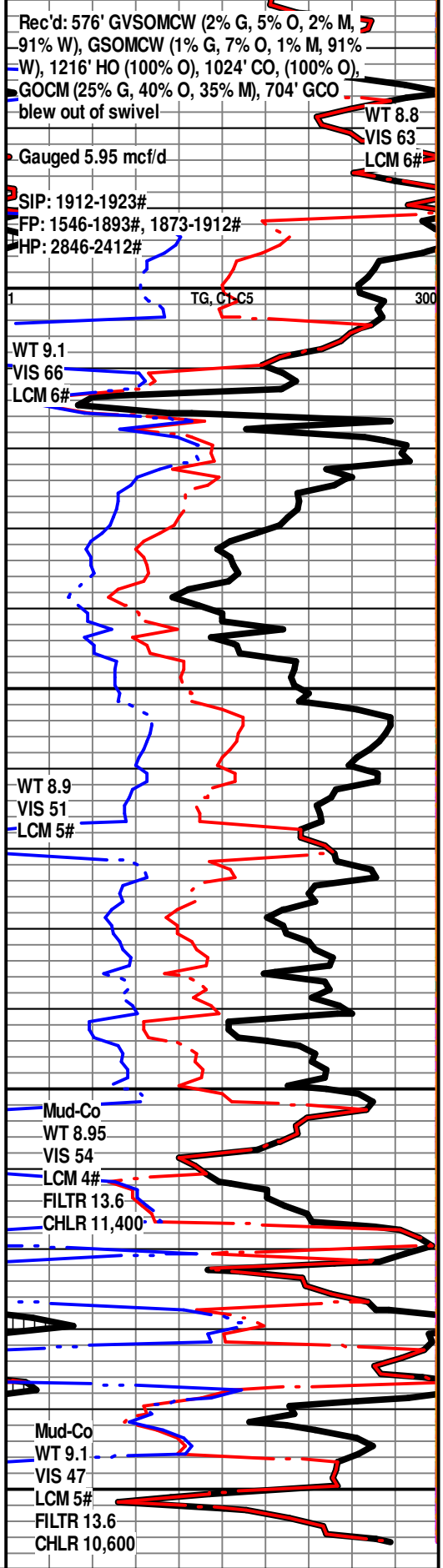
SH - RD-ORNG / TURQ / GRN / GY

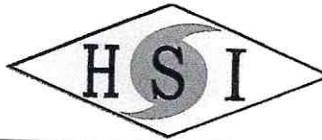
SH - PRED GRN, GY IN PT, PYRITIC IN PT, W/ SCAT RD-ORNG SH

SH - PRED GRN, RD-ORNG IN PT, SCAT SS CLUSTERS - WHT / CLR, F / M GR, SUB-RND, MOD SRTEd, V WELL CEM

SH - GRN, PYRITIC IN PT

RTD 5955'





Customer	THOROUGHbred AND ASSOCIATE	Lease & Well #	SHOTTON UNIT 6-1		Date	9/9/2021	
Service District	PRATT	County & State	COMANCHE KS	Legals S/T/R	6-32S-18W	Job #	
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	Ticket #
Equipment #	Driver						WP1840

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
<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

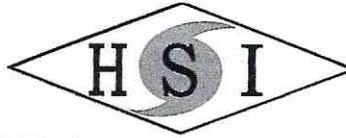
Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP050	H-Lite			
CP010	Class A Cement	sack	235.00	\$2,688.40
CP100	Calcium Chloride	sack	100.00	\$1,496.00
CP120	Cello-flake	lb	803.00	\$529.98
FE280	8 5/8" Baffle	lb	81.00	\$124.74
FE285	8 5/8" Rubber Plug	ea	1.00	\$132.00
FE255	8 5/8" Cement Basket	ea	1.00	\$154.00
FE250	8 5/8" Centralizer	ea	1.00	\$440.00
M015	Light Equipment Mileage	mi	2.00	\$158.40
M010	Heavy Equipment Mileage	mi	55.00	\$96.80
M020	Ton Mileage	mi	55.00	\$193.60
C010	Cement Pump Service	tm	822.00	\$1,085.04
C050	Cement Plug Container	ea	1.00	\$660.00
		job	1.00	\$220.00

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:	\$7,978.96
<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"/>	State tax laws deem certain products and services used on new wells to be sales tax exempt.		Sale Tax:	\$ -	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely	Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Total:	\$ 7,978.96	
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  **CUSTOMER AUTHORIZATION SIGNATURE**




Customer	Thoroughbred and Associates	Lease & Well #	Shotton Unit 6-1		Date	9/25/2021
Service District	Pratt Kansas	County & State	Comanche Kansas	Legals S/T/R	6-32s-18w	Job #
Job Type	5.5 production casing <input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No		Ticket #	wp1914

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
916	M Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176/521	R Osborn	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
181/533	R Valdez	<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 type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
cp014	H-LD Cement Blend	sack	175.00	\$7,599.38
cp055	H-Plug	sack	100.00	\$1,170.00
cp155	Gas Block	lb	495.00	\$1,336.50
cp120	Cello-flake	lb	45.00	\$70.88
fe145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$337.50
fe170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$315.00
fe130	5 1/2" Cement Basket	ea	2.00	\$540.00
fe135	5 1/2 Turbolizer	ea	12.00	\$864.00
m015	Light Equipment Mileage	mi	55.00	\$99.00
m010	Heavy Equipment Mileage	mi	55.00	\$198.00
m020	Ton Mileage	tm	685.00	\$924.75
c015	Cement Pump Service	ea	1.00	\$1,350.00
c050	Cement Plug Container	job	1.00	\$225.00
c055	Densimeter	ea	1.00	\$247.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$15,277.50
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"/>		Tax Rate:	
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:	\$ 15,277.50
		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 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**



TREATMENT REPORT

Company: **Thoroughbred and Associates**
 Location: **Coldwater Kansas**
 Rep: **Ricky Popp**

Well: **Shotton Unit 6-1**
 County: **Comanche Kansas**
 S-T-R: **6-32s-18w**

Ticket: **wp1914**
 Date: **9/25/2021**
 Service: **5.5 production casing**

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5955 ft
Casing Size:	5 1/2 in
Casing Depth:	ft
Casing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	142.5 bbls

Calculated Slurry - Lead	
Blend:	H-LD
Weight:	15.0 ppg
Water / Sx:	5.9 gal / sx
Yield:	1.49 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	46.4 bbls
Total Sacks:	175 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.7 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:	25.4 bbls
Total Sacks:	100 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
8:00 AM			-	-	on location job ans safety
					spot trucks and rig up
					centralizers..1,3,4,5,6,15,16,18,19,20,22,23,,,,,,baskets....7 & 20
9:30 AM					start casing in the hole
1:15 PM					casing on bottom
1:30 PM					rig up and circulate
2:35 PM	2.0	-	7.6	7.6	plug rat hole ,,,,30 sacks
2:45 PM					start cement
	5.0	400.0	18.0	18.0	mix 70 sacks scavenger
	6.0	700.0	46.4		mix 175 sacks
2:55 PM					cement in and shut down
					wash pump and lines
3:00 PM					start displacement
	6.5	250.0	10.0		
	6.5	300.0	40.0		
	6.5	800.0	120.0		
	3.0	800.0	130.0		slow rate
3:30 AM	3.0	1,000.0	142.5		bump plug at 1000 psi and took to 1500 psi
					plug did hold

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	R Osborn	176/521	4.8 bpm	531 psi	515 bbls
Bulk #1:	R Valdez	181/533			
Bulk #2:					