

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 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	Younger Energy Company
Well Name	JARBOE "21" 1-30
Doc ID	1623491

All Electric Logs Run

Dual Induction
Compensated Density/Neutron PE
Micro
Sonic
LAS
Cement Bond

Form	ACO1 - Well Completion
Operator	Younger Energy Company
Well Name	JARBOE "21" 1-30
Doc ID	1623491

Tops

Name	Top	Datum
Heebner	3631	-1657
Toronto	3652	-1678
Douglas	3680	-1706
Brown Lime	3787	-1813
Lansing	3809	-1835
BKC	4131	-2157
Mississippian	4241	-2267
Viola	4347	-2373
Simpson	4430	-2456
Arbuckle	4520	-2546

OPERATOR

Company: Younger Energy Company
 Address: 9415 E. Harry
 Suite 403, Bldg. 400
 Wichita, KS 67207

Contact Geologist:
 Contact Phone Nbr: 316-681-2542
 Well Name: Jarboe "21" #1-30
 Location: Sec. 30 - T26S - R13W
 API: 15-151-22573-0000
 Pool:
 State: Kansas

Field: un-named
 Country: USA



Scale 1:240 Imperial

Well Name: Jarboe "21" #1-30
 Surface Location: Sec. 30 - T26S - R13W
 Bottom Location:
 API: 15-151-22573-0000
 License Number: 30705
 Spud Date: 10/21/2021 Time: 6:00 PM
 Region: Pratt County
 Drilling Completed: 10/30/2021 Time: 4:00 PM
 Surface Coordinates: 2287' FNL & 350' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1961.00ft
 K.B. Elevation: 1974.00ft
 Logged Interval: 3500.00ft To: 4550.00ft
 Total Depth: 4550.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.792703
 Latitude: 37.756464
 N/S Co-ord: 2287' FNL
 E/W Co-ord: 350' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Duke Drilling Company
 Rig #: 7
 Rig Type: mud rotary
 Spud Date: 10/21/2021
 TD Date: 10/30/2021
 Rig Release:

Time: 6:00 PM
 Time: 4:00 PM
 Time:

ELEVATIONS

K.B. Elevation: 1974.00ft
K.B. to Ground: 13.00ft

Ground Elevation: 1961.00ft

NOTES

Due to positive drill stem testing and electrical log analyses, 5 1/2" production casing was set and cemented to further test the Mississippian and Lansing through perforations and stimulation.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data were imported into this log, as well as gamma ray and caliper curves from the electrical log suite.

Samples were saved and will be available for review at Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
Keith Reavis

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/25/2021	3226	Geologist Keith Reavis on location @1330 hrs, 3500 ft, drilling ahead, Topeka, Heebner, Toronto, Douglas, Lansing, drilling with PDC bit
10/26/2021	3860	show and gas kick in B zone warrants test, short trip, ctoh, TOH for DST #1 conduct and complete DST #1, successful test. TIH w/bit, resume drilling, H zone warrants test, TOH for DST #2
10/27/2021	3974	Conduct and complete DST #2, successful test, TIH w/button bit, resume drilling show and kick in I zone warrants test, TOH for DST #3, conduct DST #3
10/28/2021	4060	complete DST #3, successful test, show in Lansing lower I warrants test, TOH w/bit conduct and complete DST #4, successful test, TIH w/bit, resume drilling
10/29/2021	4220	drilling ahead, lower KC, Marmaton, Miss Chert, show and kick warrant test, short trip, ctoh, TOH for DST #5, conduct and complete, successful test, TIH w/PDC bit stuck for a while 3 stands off bottom, got loose, ream down
10/30/2021	4375	ream down to TD, resume drilling Miss, Viola, Simpson, Arbuckle, TD @ 4550'. ofs, short trip, ctoh, TOH for logs, conduct open hole logging operations, geologist off location 0030 hrs 10/31

well comparison sheet

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Younger Jarboe 21 2287' FNL & 350' FWL Sec 30-T26S-R13W				Younger - Jarboe 1 SW SE NE Sec 25-T26S-R14W				CMX McMannis 3-25 NE NE NE Sec 25-T26S-R14W			
	1974 KB				1962 KB				1969 KB			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3628	-1654	3631	-1657	3622	-1660	6	3	3626	-1657	3	0
Toronto	3648	-1674	3652	-1678	3639	-1677	3	-1	3642	-1673	-1	-5
Douglas	3672	-1698	3680	-1706	3664	-1702	4	-4	3668	-1699	1	-7
Brown Lime	3785	-1811	3787	-1813	3773	-1811	0	-2	3779	-1810	-1	-3
Lansing	3807	-1833	3809	-1835	3797	-1835	2	0	3803	-1834	1	-1
Lansing H por	3964	-1990	3966	-1992	3954	-1992	2	0	3957	-1988	-2	-4
Lansing J	4048	-2074	4050	-2076	4035	-2073	-1	-3	4040	-2071	-3	-5
BKC	4130	-2156	4131	-2157	4120	-2158	2	1	4120	-2151	-5	-6
Mississippian	4239	-2265	4241	-2267	4258	-2296	31	29	4225	-2256	-9	-11
Viola	4339	-2365	4347	-2373	4348	-2386	21	13	4337	-2368	3	-5
Simpson	4427	-2453	4430	-2456	4402	-2440	-13	-16	4418	-2449	-4	-7
Arbuckle	4517	-2543	4520	-2546	4488	-2526	-17	-20	4505	-2536	-7	-10
Rotary TD	4550	-2576	4550	-2576	4513	-2551	-25	-25	4570	-2601	25	25

Drill Stem Test #1

 TRIOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Younger Energy Company	30-26s-13w Pratt Co Ks
	9415 E Harry St. Suite 403 Bldg 400 Wichita, Ks. 67207	Jarboe "21" 1-30
	Job Ticket: 67593	DST#:1

GENERAL INFORMATION:Formation: **Lansing B**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 07:48:01

Time Test Ended: 13:41:16

Test Type: Conventional Bottom Hole (hit)

Tester: Matt Smith

Unit No: 68

Interval: 3828.00 ft (KB) To 3860.00 ft (KB) (TVD)

Total Depth: 3860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches-hole Condition: Fair

Reference Elevations: 1974.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8788**Inside**

Press@RunDepth: 328.41 psig @ 3829.00 ft (KB)

Start Date: 2021.10.26

Start Time: 05:37:51

End Date:

End Time:

2021.10.26

13:41:15

Capacity: 8000.00 psig

Last Calib.: 2021.10.26

Time On Btm: 2021.10.26 @ 07:44:46

Time Off Btm: 2021.10.26 @ 10:47:46

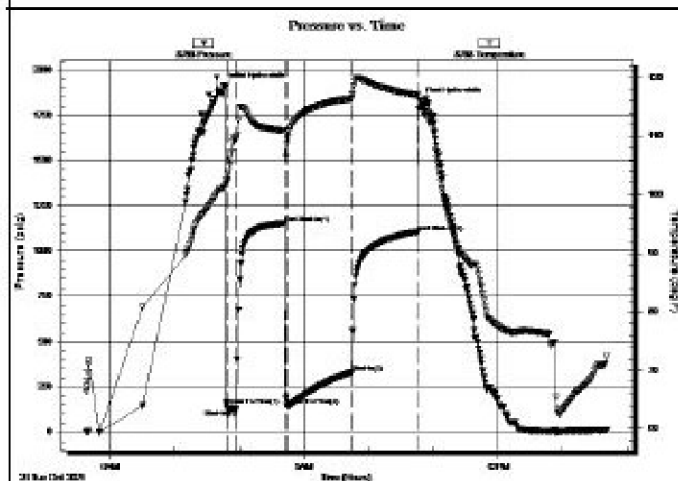
TEST COMMENT:

IF: Strong Blow . B.O.B. in 30 secs. Built to 791.95". (10)

IS: Weak Blow . Built to 1.58". (45)

FF: Strong Blow . B.O.B. & G.T.S. , immediate. Built over 900". Gauged Gas. (60)

FSI: Weak Blow . Built to 1.84". (60)

**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.52	101.07	Initial Hydro-static
4	145.30	102.02	Open To Flow(1)
13	124.19	108.61	Shut-In(1)
57	1154.01	110.99	End Shut-In(1)
59	144.99	108.67	Open To Flow(2)
120	328.41	116.43	Shut-In(2)
181	1105.66	116.94	End Shut-In(2)
183	1830.49	116.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GHOMCW 20%g 35%o 10%m 35%w	0.91
128.00	GVSOMCW 2%g 5%o 2%m 91%w	1.80
193.00	GHOMCW 25%g 40%o 4%m 31%w	2.71
103.00	GHOWCM 45%g 18%o 7%w 30%m	1.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (M cfd)
First Gas Rate	0.25	48.47	99.74
Last Gas Rate	0.25	100.99	183.06
Max. Gas Rate	0.25	100.99	183.06

Drill Stem Test #2

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Younger Energy Company

9415 E Harry St. Suite 403 Bldg 400
Wichita, KS. 67207

ATTN: Keith Reavis

30-26s-13w Pratt, KS

Jarboe "21" 1-30

Job Ticket: 67594

DST#: 2

Test Start: 2021.10.27 @ 00:28:19

GENERAL INFORMATION:Formation: **Lansing H**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 02:29:04

Time Test Ended: 07:58:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3952.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.27.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches-hole Condition: Fair

Reference Elevations: 1974.00 ft (KB)

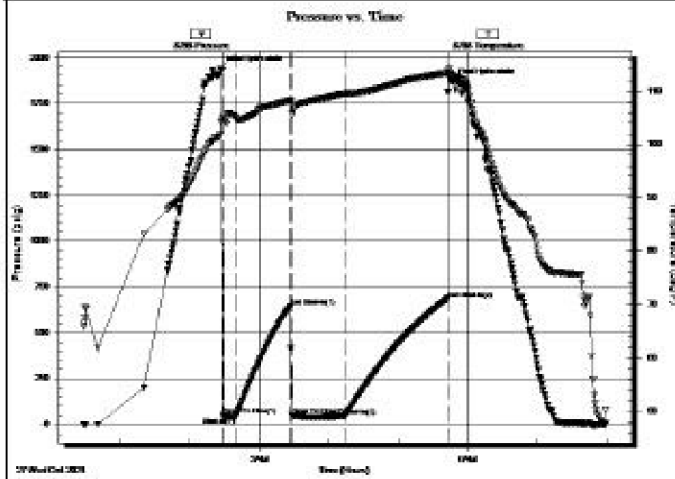
1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8788**Inside**

Press@RunDepth:	45.59 psig @	3953.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2021.10.27	End Date:	2021.10.27	Last Calib.:	2021.10.27
Start Time:	00:28:24	End Time:	07:58:48	Time On Btm:	2021.10.27 @ 02:25:49
				Time Off Btm:	2021.10.27 @ 05:46:49

TEST COMMENT: IF: Strong Blow , B.O.B. in 3 mins. Built to 35.95". (10)
IS: No Blow . (45)
FF: Strong Blw . B.O.B. immediate. Built to 145.38". (45)
FS: No Blw. (90)

**PRESSURE SUMMARY**

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.95	101.75	Initial Hydro-static
4	51.53	105.26	Open To Flow (1)
14	41.23	105.04	Shut-In(1)
61	645.94	108.22	End Shut-In(1)
62	51.32	105.53	Open To Flow (2)
108	45.59	109.44	Shut-In(2)
197	686.88	113.28	End Shut-In(2)
201	1867.19	112.89	Final Hydro-static

Recovery


Length (ft)	Description	Volume (bbl)
55.00	GHOCM 5%g 30%w 65%m	0.77
0.00	1217' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (M dscf)
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Drill Stem Test #3

	DRILL STEM TEST REPORT	
	Younger Energy Company 9415 E Harry St. Suite 403 Bldg 400 Wichita, Ks. 67207 ATTN: Keith Reavis	30-26s-13w Pratt Co Ks Jarboe "21" 1-30 Job Ticket: 67595 DST#: 3 Test Start: 2021.10.27 @ 17:42:12

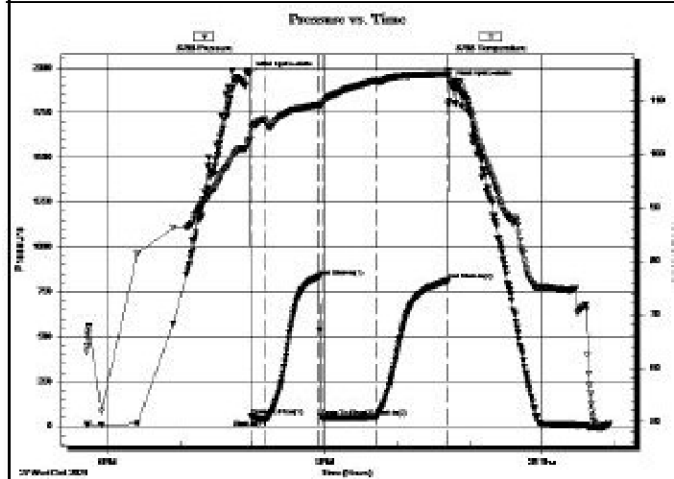
GENERAL INFORMATION:

Formation:	Lansing I	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock	Tester:	Matt Smith
Time Tool Opened:	19:58:12	Unit No:	68
Time Test Ended:	00:55:27	Reference Elevations:	1974.00 ft (KB) 1961.00 ft (CF)
Interval:	4006.00 ft (KB) To 4030.00 ft (KB) (TVD)	KB to GR/CF:	13.00 ft
Total Depth:	4030.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches -hole Condition: Fair		

Serial #: 8788**Inside**

Press@RunDepth:	51.87 psig @	4007.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2021.10.27	End Date:	2021.10.28	Last Calib.:	2021.10.28
Start Time:	17:42:17	End Time:	00:55:28	Time On Btm:	2021.10.27 @ 19:57:12
				Time Off Btm:	2021.10.27 @ 22:43:27

TEST COMMENT: IF: Fair Blow . Built to 8.44". (10)
IS: No Blow . (45)
FF: Strong Blw . B.O.B. in 14 mins. Built to 31.83". (45)
FS: No Blw. (60)



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.42	102.58	Initial Hydro-static
1	55.73	103.52	Open To Flow(1)
14	38.42	105.59	Shut-In(1)
58	836.51	109.12	End Shut-In(1)
60	50.68	108.89	Open To Flow(2)
105	51.87	113.52	Shut-In(2)
165	811.62	114.81	End Shut-In(2)
167	1911.40	113.63	Final Hydro-static

Length (ft)	Description	Volume (bbl)
72.00	GVSOWCM 1%g 1%w 4%w 94%m	1.01
0.00	384' GIP 100%g	0.00

* Recovery from multiple tests

Choke (Inches)	Pressure (psig)	Gas Rate (M cfd)

Drill Stem Test #4

DRILL STEM TEST REPORT

Younger Energy Company
9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207
ATTN: Keith Reavis

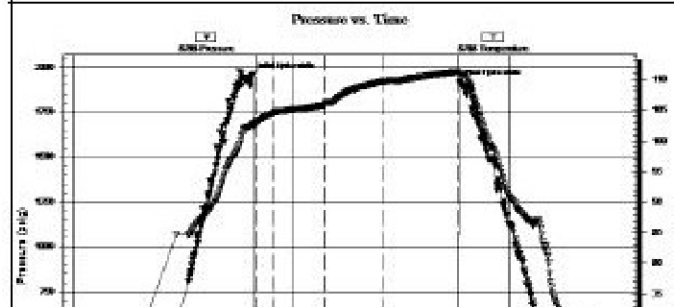
30-26s-13w Pratt Co Ks

Jarboe "21" 1-30
Job Ticket: 67596 **DST#: 4**
Test Start: 2021.10.28 @ 09:12:12

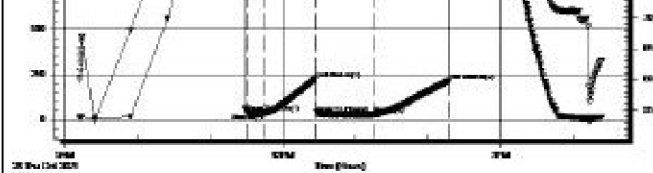
Formation:	Lansing I&J	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock ft (KB)	Tester:	Matt Smith
Time Tool Opened:	11:30:42	Unit No:	68
Time Test Ended:	16:23:57		
Interval:	4028.00 ft (KB) To 4060.00 ft (KB) (TVD)	Reference Elevations:	1974.00 ft (KB)
Total Depth:	4060.00 ft (KB) (TVD)		1961.00 ft (CF)
Hole Diameter:	7.88 inches -to- Condition: Fair	KB to GR/CF:	13.00 ft

Serial #: 8788	Inside		
Press@RunDepth:	27.04 psig @ 4029.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2021.10.28	End Date:	2021.10.28
Start Time:	09:12:17	End Time:	16:23:56
		Time On Btm:	2021.10.28 @ 11:27:12
		Time Off Btm:	2021.10.28 @ 14:18:12

TEST COMMENT: IF: Weak Blow . Built to 4.97", in the Bucket. Had 9-11 Feet of Fil. (10)
 IST: No Blow . (45)
 FF: Fair Blow . Built to 8 1/4", in the Bucket. (45)
 FSI: No Blow. (60)



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.25	102.66	Initial Hydro-static
4	40.30	103.26	Open To Flow(1)
17	33.74	104.42	Shut-In(1)
61	226.56	105.87	End Shut-In(1)
61	36.60	106.36	Open To Flow(2)
107	27.04	109.61	Shut-In(2)
171	215.38	111.24	End Shut-In(2)



171	1909.53	110.84	Final Hydro-static
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Recovery

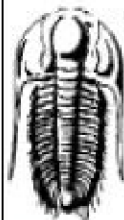
Length (ft)	Description	Volume (bbl)
12.00	GOSM 1%g 99%m	0.17
0.00	116' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Drill Stem Test #5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67597

DST#: 5

ATTN: Keith Reavis

Test Start: 2021.10.29 @ 13:03:11

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 14:47:56

Time Test Ended: 20:24:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **4204.00 ft (KB) To 4256.00 ft (KB) (TVD)**

Total Depth: 4256.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1974.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8788

Inside

Press@RunDepth: 134.66 psig @ 4208.00 ft (KB)

Start Date: 2021.10.29 End Date: 2021.10.29

Start Time: 13:03:16 End Time: 20:24:55

Capacity: 8000.00 psig

Last Calib.: 2021.10.29

Time On Btm: 2021.10.29 @ 14:46:41

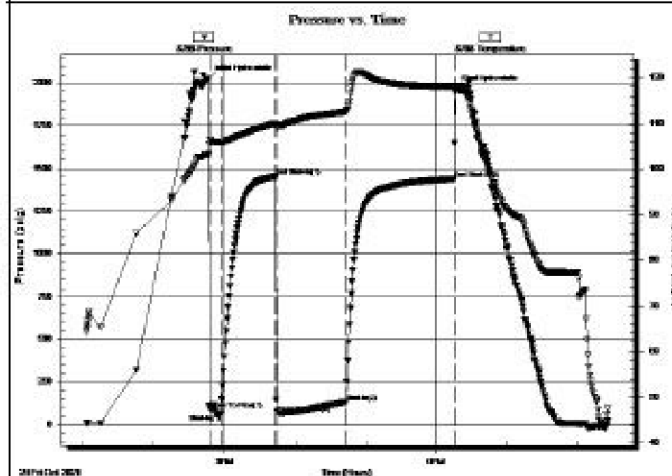
Time Off Btm: 2021.10.29 @ 18:16:11

TEST COMMENT: IF: Strong Blow . B.O.B. in 2 mins. Built to 125'. Tagged 20' High, Slid 10' on open. (10)

IS: Weak Blow . Built to 1 1/2", in the Bucket. (45)

FF: Strong Blw . B.O.B., immediate on open. Built over 800', G.T.S. in 32 mins. Gauged Gas. (60)

FS: Fair Blow . Built to 8.95'. (90)



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.87	103.20	Initial Hydro-static
2	92.49	106.48	Open To Flow(1)
11	63.12	105.94	Shut-In(1)
57	1453.21	110.04	End Shut-In(1)
59	67.58	109.42	Open To Flow(2)
117	134.66	112.60	Shut-In(2)
209	1439.98	118.11	End Shut-In(2)
210	1969.64	118.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOSM 2%g 98m	0.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	54.12	25.65

34.00	GM 1%g 99%mm	0.48

Last Gas Rate	0.13	77.25	34.30
Max. Gas Rate			

* Recovery from multiple tests

ROCK TYPES

Cht	sdymst	shale, gm	shale, red	Sltst
Cht vari	Lmst fw<7	shale, gry	Shcol	
Dolprim	Lmst fw>7	Carbon Sh	Ss	

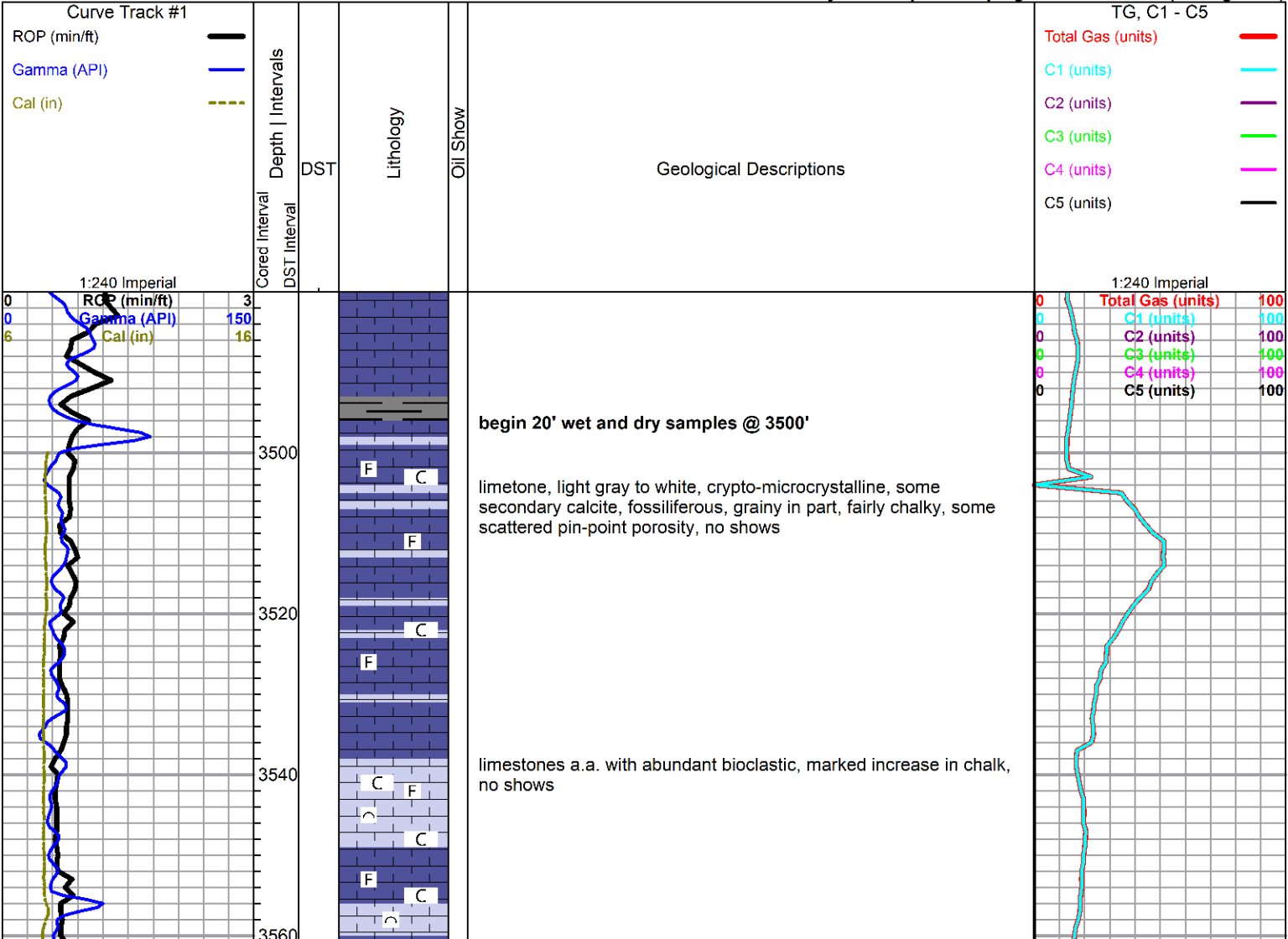
ACCESSORIES

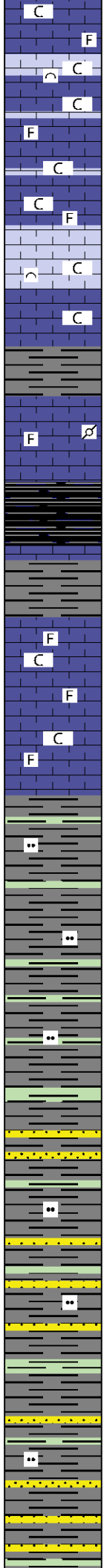
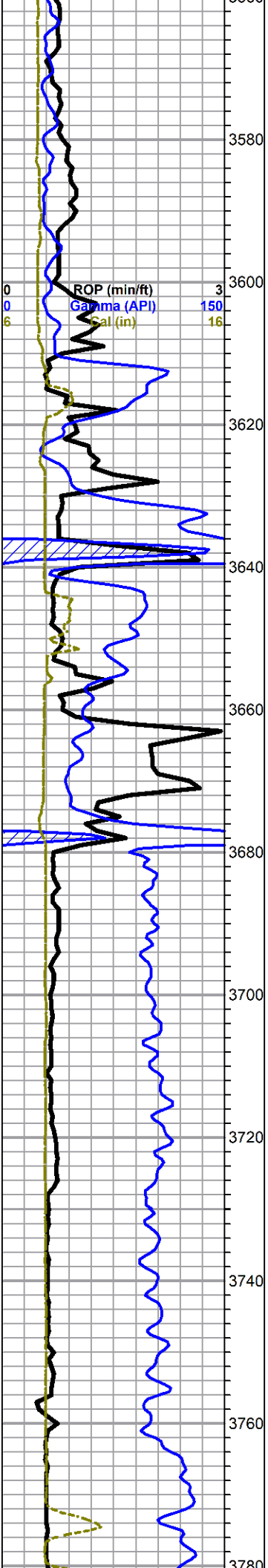
MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	∩ Bioclastic or Fragments	■ Limestone	C Chalky
P Pyrite	F Fossils < 20%	● Sandstone	L Lithogr
• Sandy	⊙ Oolite	▬ Shale	
• Silty	⊘ Pellets	■ red shale	
△ Chert White	⊕ Oomoldic		
Mc Mica			

OTHER SYMBOLS

Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
● Poor Show	■ Core
○ Spotted or Trace	▬ tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





gray shale

limestone, gray, micro-cryptocrystalline, fossiliferous, trace pelletal, some lithographic, dense, no shows

Heebner Shale 3628 -1654

shale, black carbonaceous

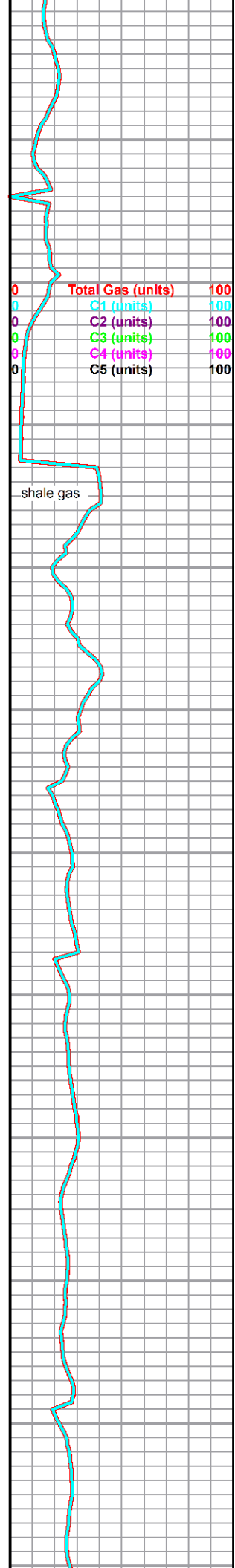
Toronto 3648 -1674

limestone, white to light gray, microcrystalline, fossiliferous, chalky, some scattered porosity, abundant chalk in samples, no shows

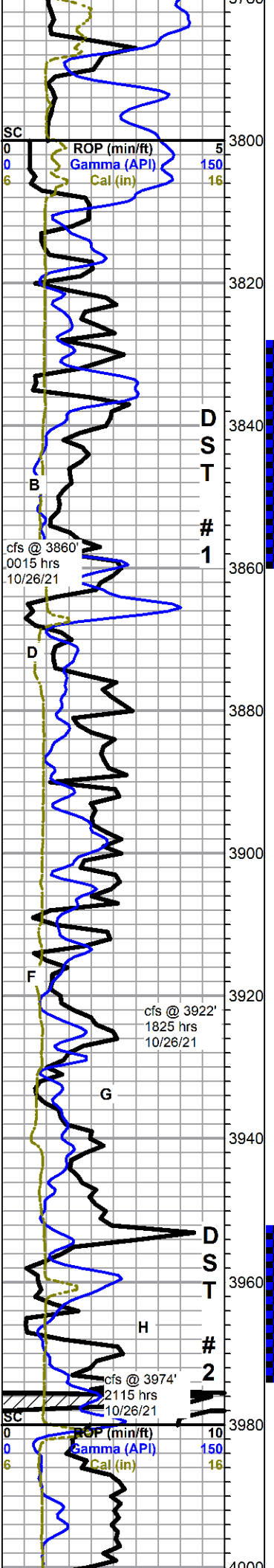
Douglas 3672 -1698

gray and green shales, silty

beginning 3780 sample, flood sandstone, gray, micaceous, very fine grain, poor sorted, rounded to sub-angular, well cemented, poor visible porosity, no shows



shale gas



Brown Lime 3785 -1811

limestone, gray to light brown, cryptocrystalline, fossiliferous, dense, no shows

Lansing 3807 -1833

limestone, light gray, tan, brown, fossiliferous to dense cryptocrystalline, abundant chalk, poor visible porosity, no shows

limestone, light gray, microcrystalline, fossiliferous to bioclastic, slightly grainy, some fair pinpoint porosity, chalky in part, very light spotty stain, streaming sheen, some slow bleeding oil and gas bubbles, fair show oil on break, strong odor, good fluorescence, fair cut on break

strap 1.82' LTB deviation 3/4 deg

limestone, gray mottled pelletal, with cream dense sub-oomoldic, some good vuggy porosity, barren, abundant chalk, no shows, abundant mixed limestones and trip trash

limestones, mixed non-descript, no shows

influx abundant brown dense pelletal and fossiliferous, mottled gray pelletal

limestone, gray to white, flattened oolitic to bioclastic, poor visible porosity, chalky in part, some scattered spotty stain, poor to fair show oil on break, some scaly, weak odor, fair fluorescence, slow streaming cut

limestone, gray to brown, cryptocrystalline, dense fossiliferous with frosted gray cherts

limestone, cream, very fine chalky oolitic, poor visible porosity, no shows

limestones, mixed non-descript fossiliferous, mostly chalky, some dense, scattered variable gray cherts

limestone, gray, oomoldic to oolitic, good oomold porosity, fair stain, faint odor, good show bleeding oil and gas, poor fluorescence, excellent instant bloom on cut

limestone, white to cream and light gray, oolitic and fossiliferous, chalky, grainy, some wormy interclast porosity with black dead stain, no show oil or odor

limestone, white to light gray, mostly cryptocrystalline, fossiliferous, dense to chalky, abundant chalky in samples, no shows

0	Total Gas (units)	200
0	C1 (units)	200
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

MudCo Mud Ck
3860 ft
10/26/21 0900 hrs
Vis 55 Wt 9.3
PV 18 YP 16
pH 11.5 WL 8.0
Cake 1/32
Cl 8000 ppm
Ca 80 ppm
Solids 6.6%
LCM 2#
DMC \$205.95
CMC \$12964.26

134 unit total

0	Total Gas (units)	400
0	C1 (units)	400
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100
0	C5 (units)	100

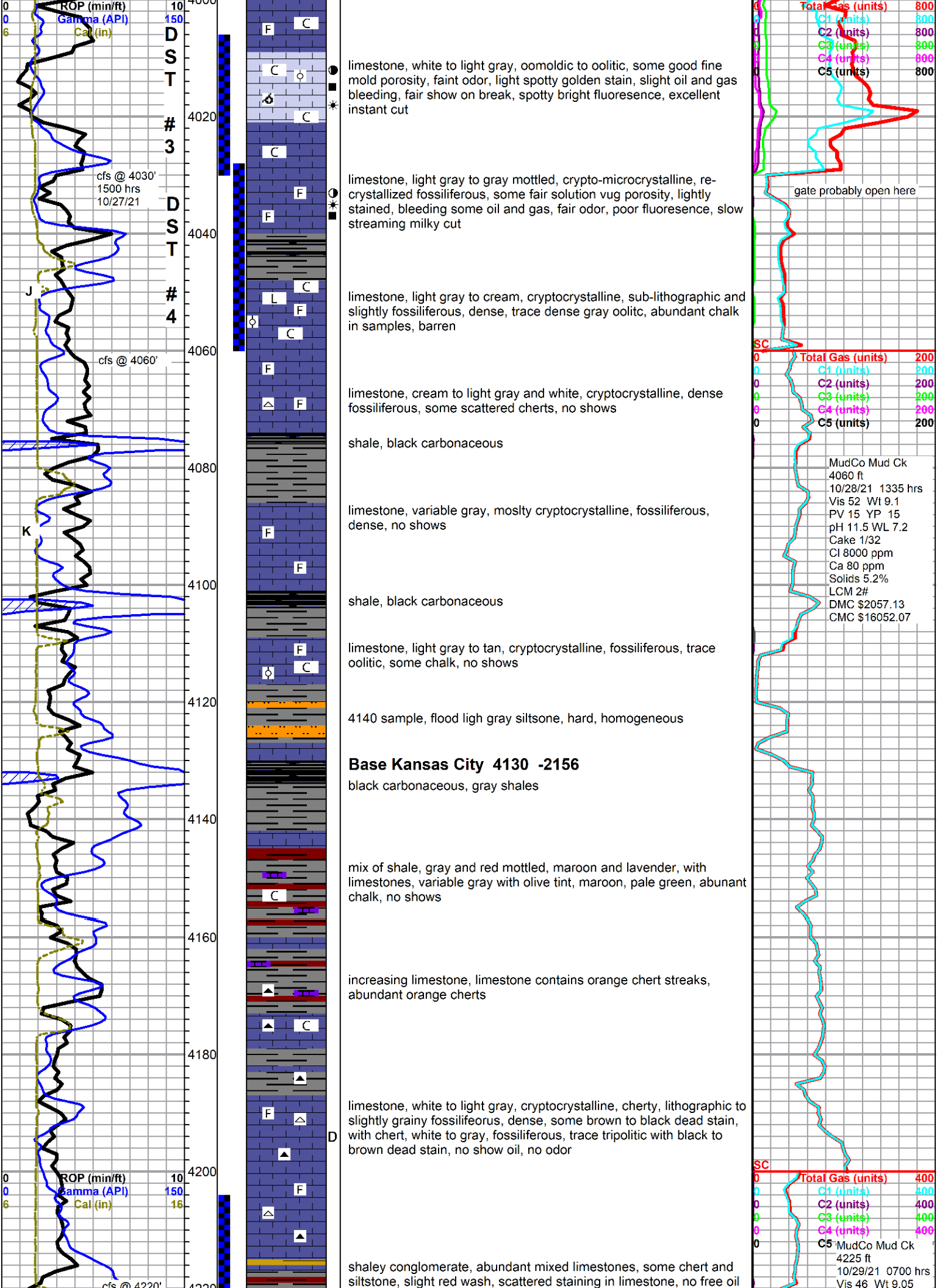
no gas here,
derrick hand
left a gate
open on pits

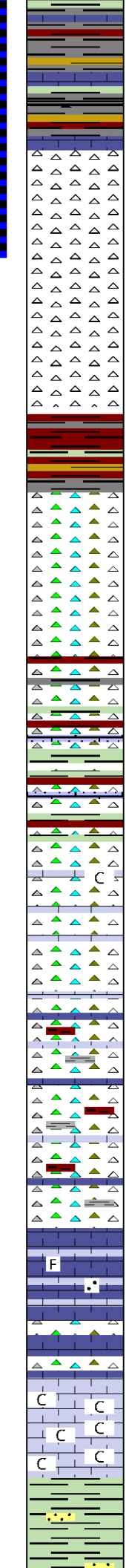
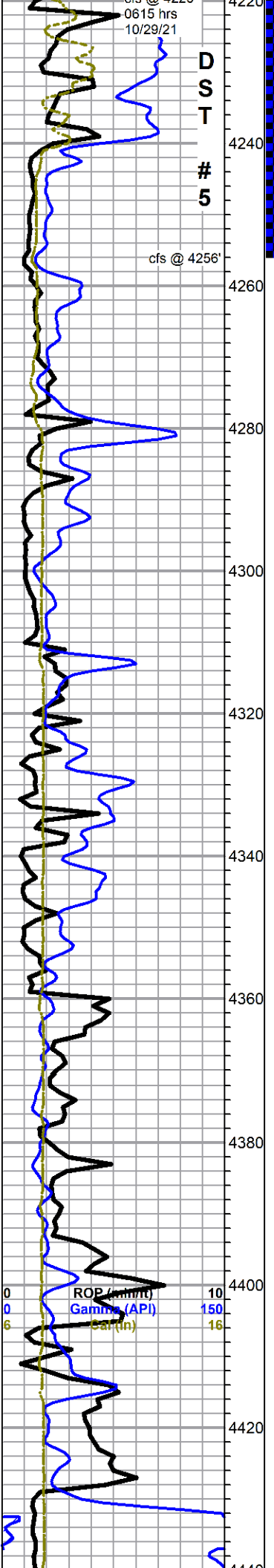
MudCo Mud Ck
3974 ft
10/27/21 0845 hrs
Vis 52 Wt 9.2
PV 16 YP 15
pH 11.0 WL 8.0
Cake 1/32
Cl 8000 ppm
Ca 80 ppm
Solids 5.9%
LCM 1.5#
DMC \$1030.68
CMC \$13994.94

239 units

0	Total Gas (units)	800
0	C1 (units)	800
0	C2 (units)	800
0	C3 (units)	800
0	C4 (units)	800
0	C5 (units)	800

replace PDC with
button bit going
back in hole





or odor

Mississippian Chert 4239 -2265

30 min sample: limestone, light gray to gray, cryptocrystalline, slightly fossiliferous to lithographic, some arenaceous, dense and cherty, with chert, boney white, small chips in tray with some slight tripolitic, white to yellowish tint, light staining, no free oil, no odor - 60 min, chert a.a., mostly tripolitic, fair porosity, fair stain, trace small free oil droplets, no odor, good fluorescence

chert a.a., variable degrees of stain, decrease tripolitic increase in fresh, very fine samples no odor

samples clean up, chert, boney white, appx 30% tripolitic with brown to black stain, some fair solution vugs, some floating gilsonite, no odor or show oil, good fluorescence, no cut

4310 sample - flood multi-colored shales

chert, variable whtie, gray, smokey gray, tan, some yellow, scattered tripolitic edges with dead black staining, no show free oil, no odor, poor fluorescence, still carrying abundant shale

a.a. decreasing shales

4360 sample - flood shales, maroon and green, with green tinted and maroon limestone, abundant white to light gray sandy limestones

Viola 4339 -2365 (log 4347)

chert changes to white to light smokey gray, trace black stain, limestone, light gray to cream, grainy, chalky, weathered, some light black dead staining, no show free oil, no odor

cherts and limestones a.a., increased limestones, abundant gray and red shales, some sandy to arenaceous limestones

limestone, light gray to cream, fossiliferous, very chalky, with dark gray arenaceous limestone and dense gray, cryptocrystalline limestone, still abundant chert and shale a.a., abundant chalk

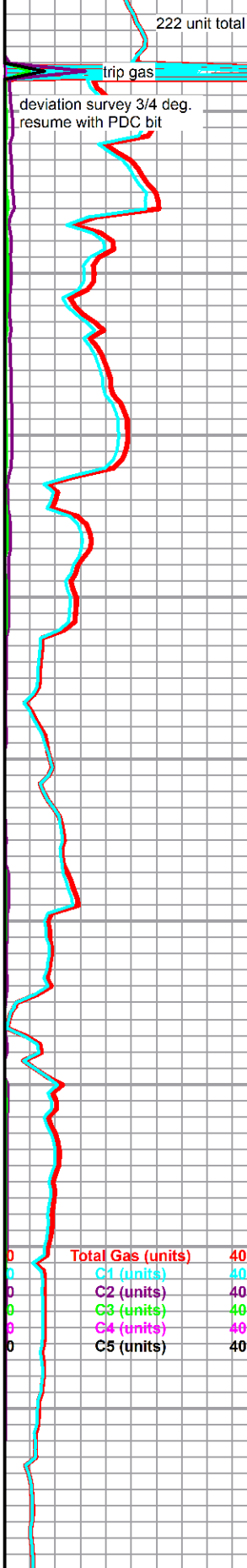
chert and limestone a.a., abundant chalk

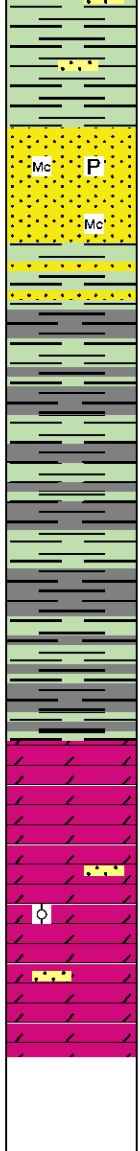
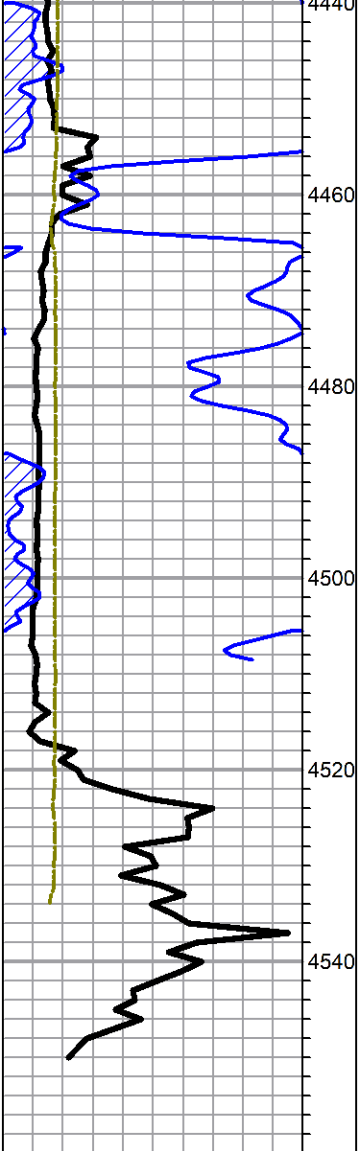
samples almost all white limestone pulverized into chalk

Simpson 4427 -2453

mostly green to green waxy shales with scattered sandstone, white to gray, some dirty/silty, poor sorting, well to poor cementing, no shows

PV 15 YP 14
pH 11.0 WL 8.0
Cake 1/32
Cl 7100 ppm
Ca 5 ppm
Solids 4.6%
LCM 2#
DMC \$1132.82
CMC \$17184.89





sandstone, gray, very micaceous and pyritic, fine to very fine grain, rounded, fair sorting, mostly well cemented, poor visible porosity, no show

shale, dark gray to green, firm and limey, smooth

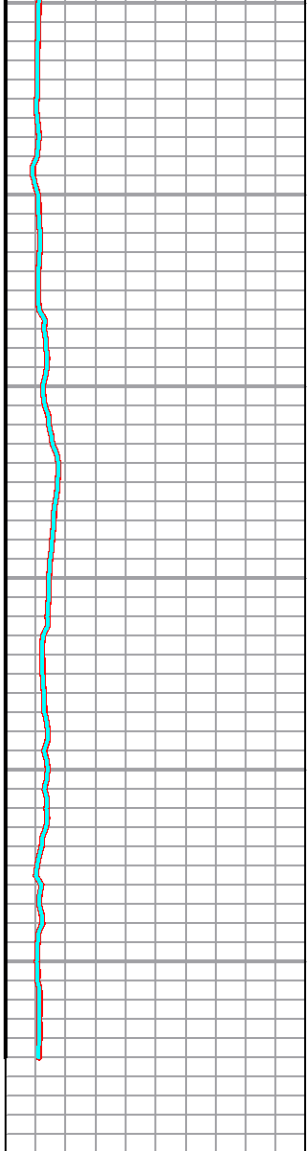
shale a.a., still carrying abundant sandstone

Arbuckle 4517 -2543

dolomite, gray to cream, microcrystalline, very dense, cherty, barren

dolomite, gray to cream and tan, crypto-microcrystalline, some sub-rhombic, trace oolitic, poor visible porosity, trace white very fine grained homogenous sandstone, no shows

Rotary TD 4550' @ 1600 hrs, 10/30/21
 ELI Wireline TD 4550'
 complete logging operations 2345 hrs 10/30/21





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Younger Energy Company
 9415 E Harry St. Suite 403 Bldg 400
 Wichita, Ks. 67207
 ATTN: Keith Reavis

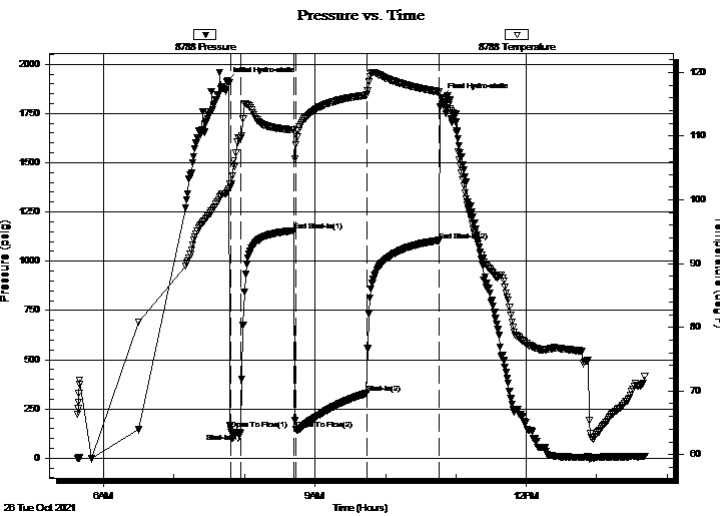
30-26s-13w Pratt Co Ks
Jarboe "21" 1-30
 Job Ticket: 67593 **DST#: 1**
 Test Start: 2021.10.26 @ 05:37:46

GENERAL INFORMATION:

Formation: **Lansing B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:48:01
 Time Test Ended: 13:41:16
 Interval: **3828.00 ft (KB) To 3860.00 ft (KB) (TVD)**
 Total Depth: 3860.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1974.00 ft (KB)
 1961.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8788 Inside
 Press@RunDepth: 328.41 psig @ 3829.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.26 End Date: 2021.10.26 Last Calib.: 2021.10.26
 Start Time: 05:37:51 End Time: 13:41:15 Time On Btm: 2021.10.26 @ 07:44:46
 Time Off Btm: 2021.10.26 @ 10:47:46

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. Built to 791.95". (10)
 IS: Weak Blow . Built to 1.58". (45)
 FF: Strong Blow . B.O.B. & G.T.S., immediate. Built over 900". Gauged Gas. (60)
 FS: Weak Blow . Built to 1.84". (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.52	101.07	Initial Hydro-static
4	145.30	102.02	Open To Flow (1)
13	124.19	109.61	Shut-In(1)
57	1154.01	110.99	End Shut-In(1)
59	144.99	108.67	Open To Flow (2)
120	328.41	116.43	Shut-In(2)
181	1105.66	116.94	End Shut-In(2)
183	1830.49	116.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GHOMCW 20%g 35%o 10%m 35%w	0.91
128.00	GVSOMCW 2%g 5%o 2%m 91%w	1.80
193.00	GHOMCW 25%g 40%o 4%m 31%w	2.71
103.00	GHOWCM 45%g 18%o 7%w 30%m	1.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	48.47	99.74
Last Gas Rate	0.25	100.99	183.06
Max. Gas Rate	0.25	100.99	183.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67593

DST#: 1

ATTN: Keith Reavis

Test Start: 2021.10.26 @ 05:37:46

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:

50000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	GHOMCW 20%g 35%o 10%m 35%w	0.912
128.00	GV SOMCW 2%g 5%o 2%m 91%w	1.796
193.00	GHOMCW 25%g 40%o 4%m 31%w	2.707
103.00	GHOWCM 45%g 18%o 7%w 30%m	1.445

Total Length: 489.00 ft

Total Volume:

6.860 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: P-24 Matt

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .19 @ 64 Degrees = 50,000 Chlorides.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67593

DST#: 1

ATTN: Keith Reavis

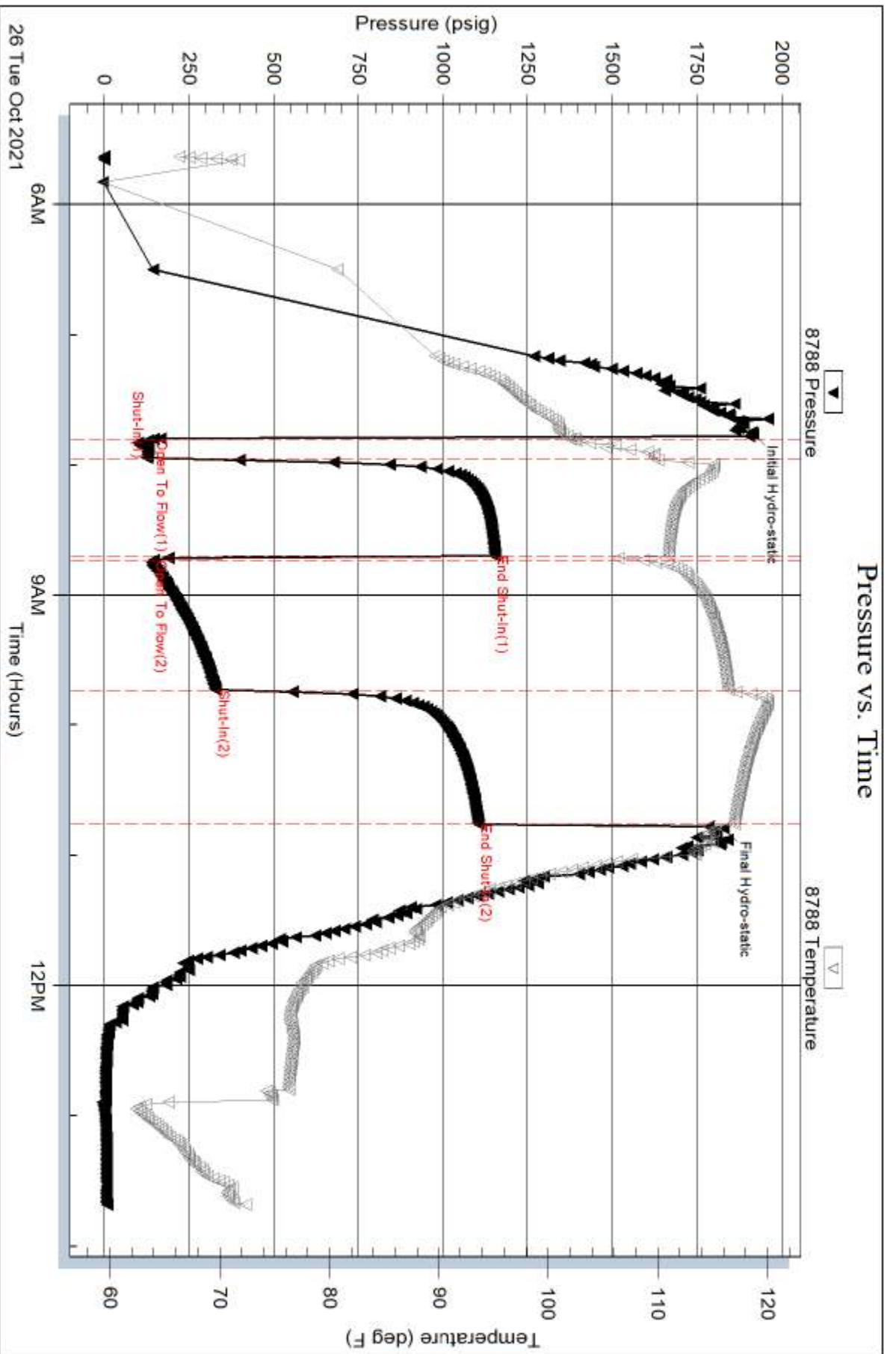
Test Start: 2021.10.26 @ 05:37:46

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	48.47	99.74
2	20	0.25	69.10	132.47
2	30	0.25	84.22	156.45
2	40	0.25	92.96	170.32
2	50	0.25	98.07	178.42
2	60	0.25	100.99	183.06





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Younger Energy Company

30-26s-13w Pratt,KS

9415 E Harry St. Suite 403 Bldg 400
Wichita, KS. 67207

Jarboe "21" 1-30

Job Ticket: 67594

DST#: 2

ATTN: Keith Reavis

Test Start: 2021.10.27 @ 00:28:19

GENERAL INFORMATION:

Formation: **Lansng H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:29:04

Time Test Ended: 07:58:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3952.00 ft (KB) To 3974.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 397427.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8788

Inside

Press@RunDepth: 45.59 psig @ 3953.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.10.27 End Date: 2021.10.27

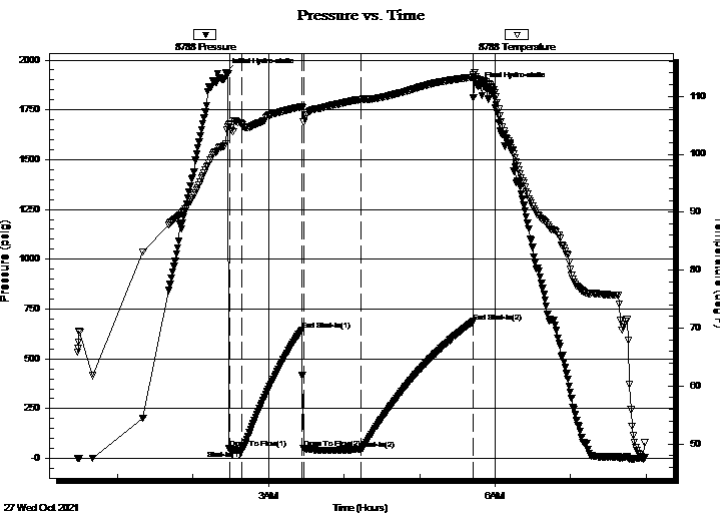
Last Calib.: 2021.10.27

Start Time: 00:28:24 End Time: 07:58:48

Time On Btm: 2021.10.27 @ 02:25:49

Time Off Btm: 2021.10.27 @ 05:46:49

TEST COMMENT: IF: Strong Blow . B.O.B. in 3 mins. Built to 35.95". (10)
IS: No Blow . (45)
FF: Strong Blow . B.O.B. immediate. Built to 145.38". (45)
FS: No Blow . (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.95	101.75	Initial Hydro-static
4	51.53	105.26	Open To Flow (1)
14	41.23	105.04	Shut-In(1)
61	645.94	108.22	End Shut-In(1)
62	51.32	105.53	Open To Flow (2)
108	45.59	109.44	Shut-In(2)
197	686.88	113.28	End Shut-In(2)
201	1867.19	112.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	GHOCM 5%g 30%o 65%m	0.77
0.00	1217' 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

Younger Energy Company

30-26s-13w Pratt,KS

9415 E Harry St. Suite 403 Bldg 400
Wichita, KS. 67207

Jarboe "21" 1-30

Job Ticket: 67594

DST#: 2

ATTN: Keith Reavis

Test Start: 2021.10.27 @ 00:28:19

GENERAL INFORMATION:

Formation: **Lansng H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:29:04

Time Test Ended: 07:58:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3952.00 ft (KB) To 3974.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 397427.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3953.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.10.27 End Date: 2021.10.27

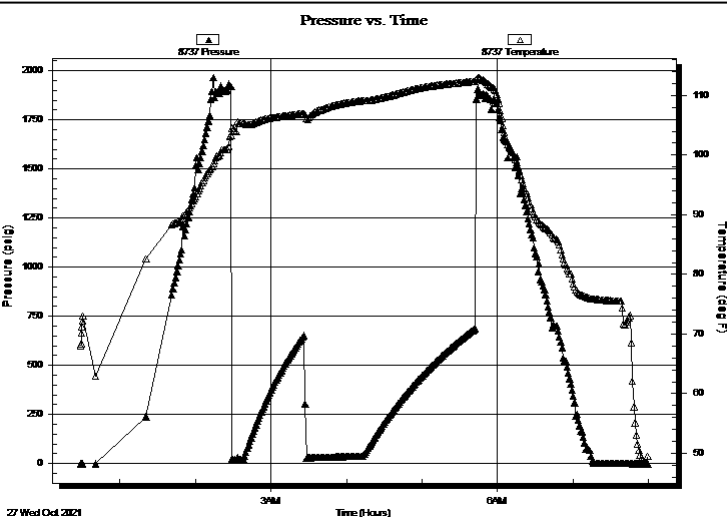
Last Calib.: 2021.10.27

Start Time: 00:28:50 End Time: 07:59:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 3 mins. Built to 35.95". (10)
IS: No Blow . (45)
FF: Strong Blow . B.O.B. immediate. Built to 145.38". (45)
FS: No Blow . (90)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
55.00	GHOCM 5%g 30%o 65%m	0.77
0.00	1217' 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

FLUID SUMMARY

Younger Energy Company

30-26s-13w Pratt,KS

9415 E Harry St. Suite 403 Bldg 400
Wichita, KS. 67207

Jarboe "21" 1-30

Job Ticket: 67594

DST#: 2

ATTN: Keith Reavis

Test Start: 2021.10.27 @ 00:28:19

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:

8000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
55.00	GHOCM 5%g 30%o 65%m	0.772
0.00	1217' GIP 100%g	0.000

Total Length: 55.00 ft Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

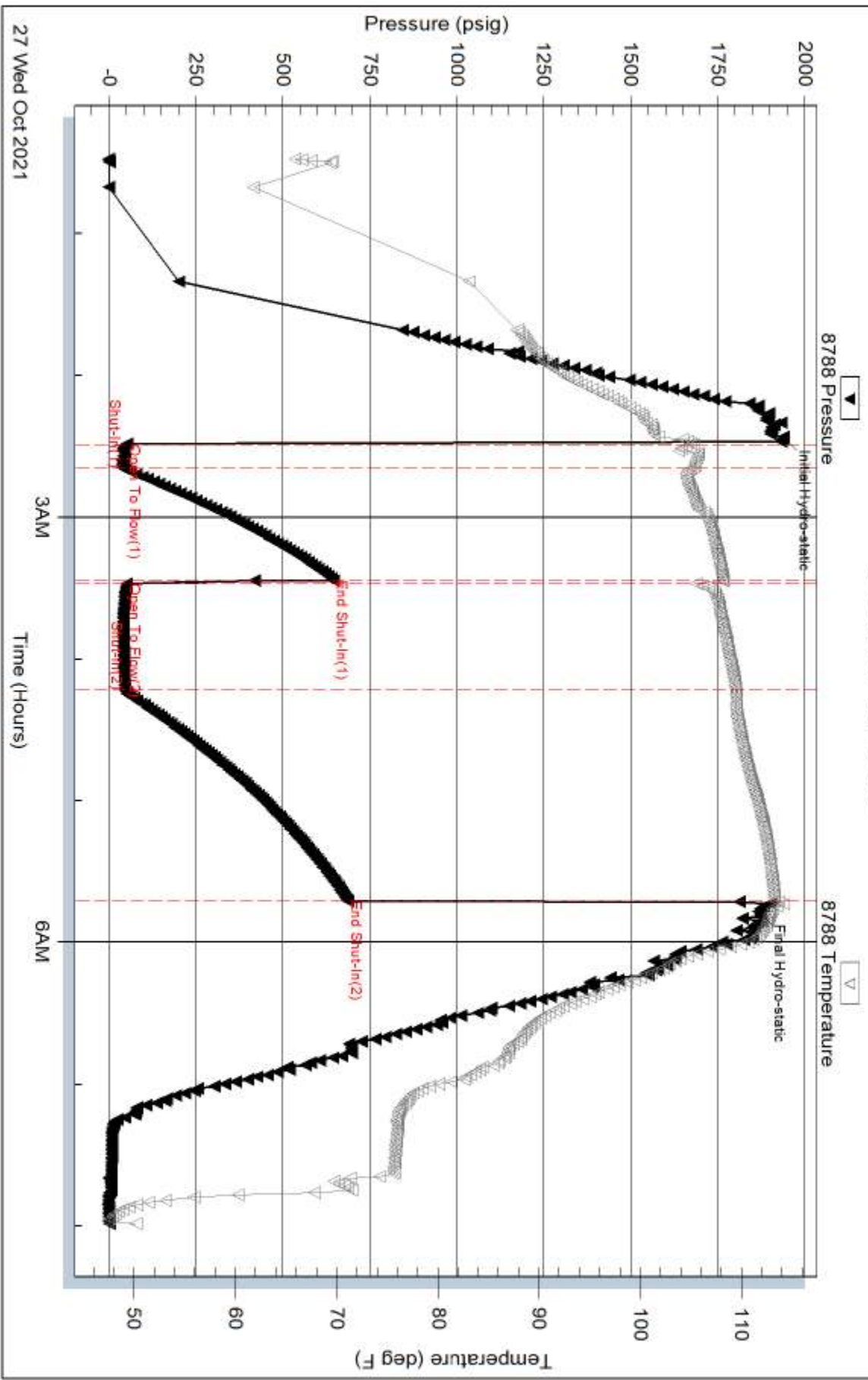
Serial #: None

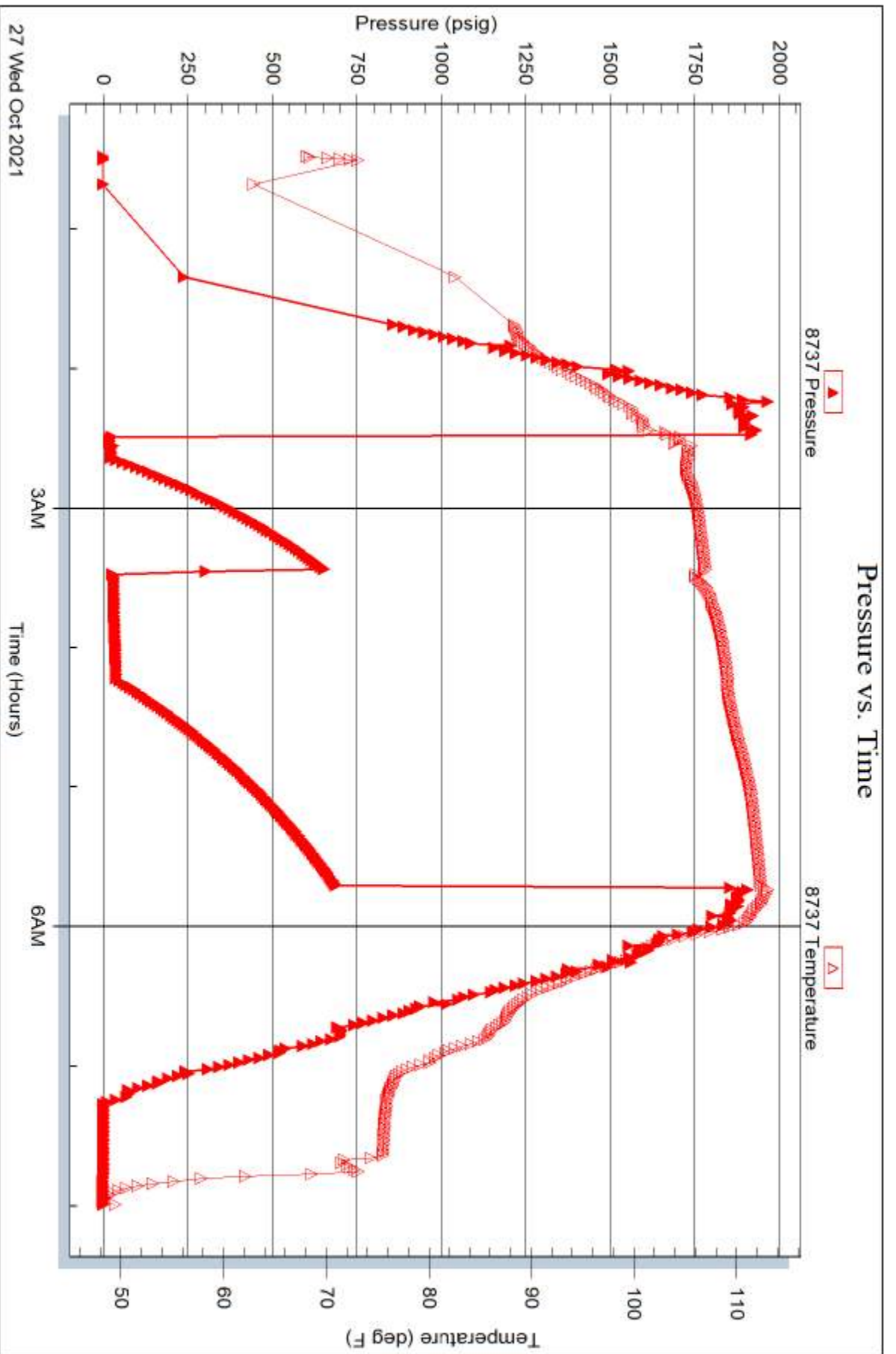
Laboratory Name:

Laboratory Location:

Recovery Comments: 1,217 FTof Gas in Pipe.

Pressure vs. Time







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Younger Energy Company
 9415 E Harry St. Suite 403 Bldg 400
 Wichita, Ks. 67207
 ATTN: Keith Reavis

30-26s-13w Pratt Co Ks
Jarboe "21" 1-30
 Job Ticket: 67595 **DST#: 3**
 Test Start: 2021.10.27 @ 17:42:12

GENERAL INFORMATION:

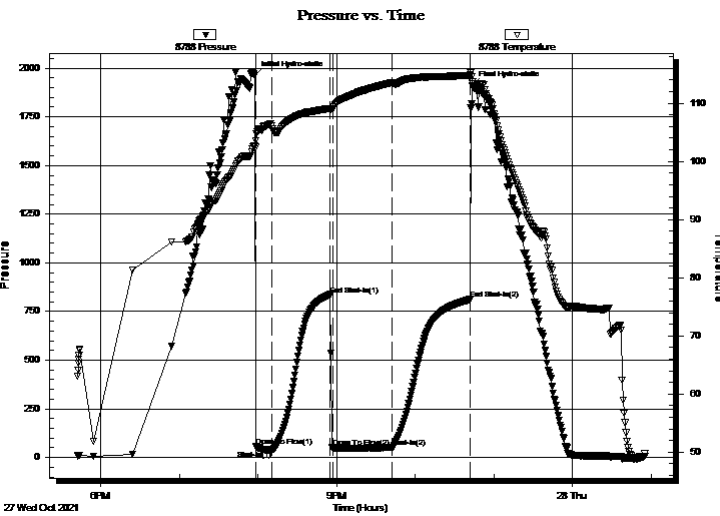
Formation: **Lansing I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:58:12
 Time Test Ended: 00:55:27
 Interval: **4006.00 ft (KB) To 4030.00 ft (KB) (TVD)**
 Total Depth: 4030.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1974.00 ft (KB)
 1961.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8788

Inside

Press@RunDepth: 51.87 psig @ 4007.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.27 End Date: 2021.10.28 Last Calib.: 2021.10.28
 Start Time: 17:42:17 End Time: 00:55:26 Time On Btm: 2021.10.27 @ 19:57:12
 Time Off Btm: 2021.10.27 @ 22:43:27

TEST COMMENT: IF: Fair Blow . Built to 8.44". (10)
 IS: No Blow . (45)
 FF: Strong Blow . B.O.B. in 14 mins. Built to 31.83". (45)
 FS: No Blow . (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.42	102.58	Initial Hydro-static
1	55.73	103.52	Open To Flow (1)
14	38.42	105.59	Shut-In(1)
58	836.51	109.12	End Shut-In(1)
60	50.68	108.89	Open To Flow (2)
105	51.87	113.52	Shut-In(2)
165	811.62	114.81	End Shut-In(2)
167	1911.40	113.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
72.00	GV/SOWCM 1%g 1%o 4%w 94%m	1.01
0.00	384' 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

FLUID SUMMARY

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67595

DST#: 3

ATTN: Keith Reavis

Test Start: 2021.10.27 @ 17:42:12

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:

8000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
72.00	GVSOWCM 1%g 1%o 4%w 94%m	1.010
0.00	384' GIP 100%g	0.000

Total Length: 72.00 ft Total Volume: 1.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

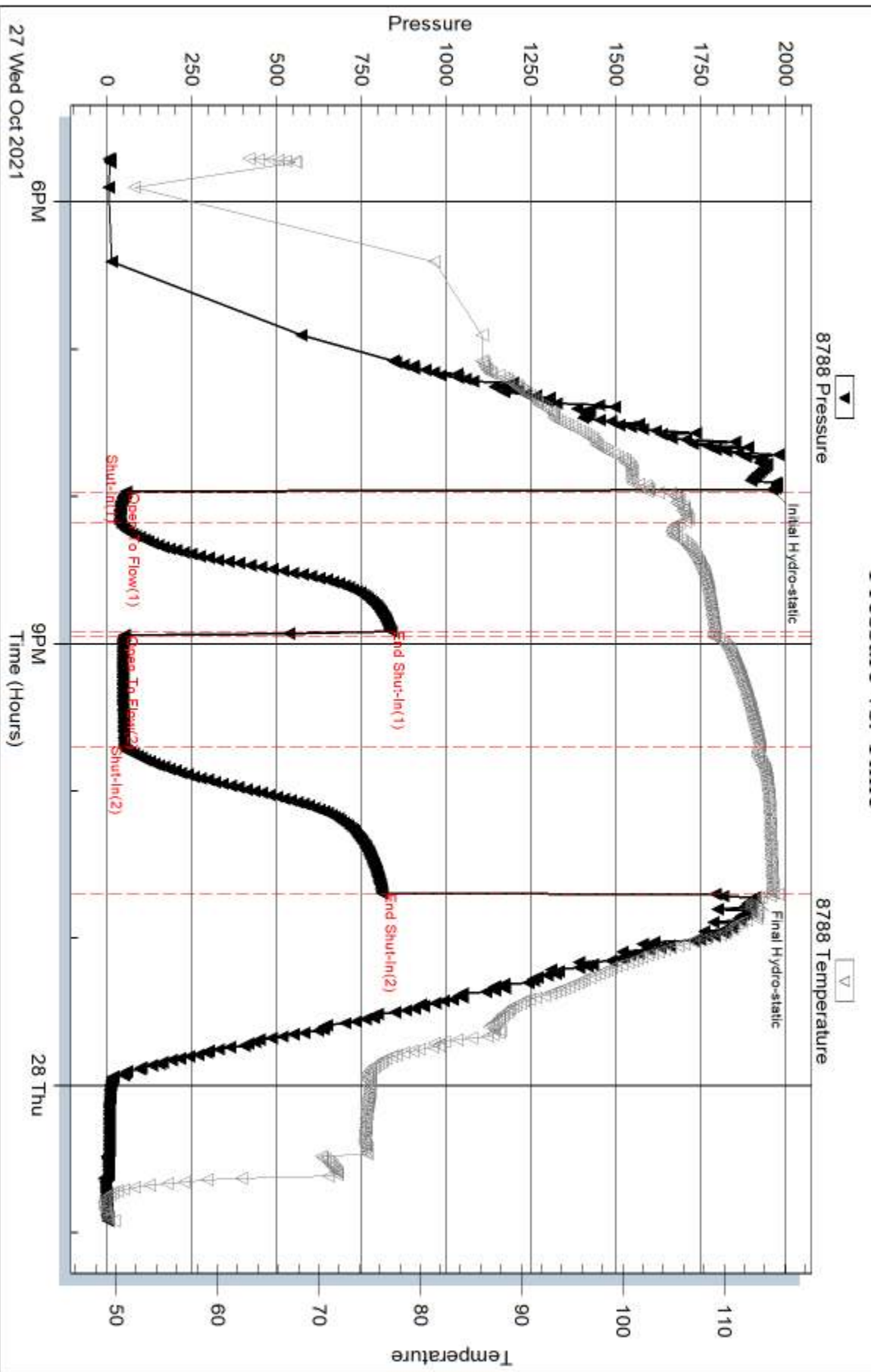
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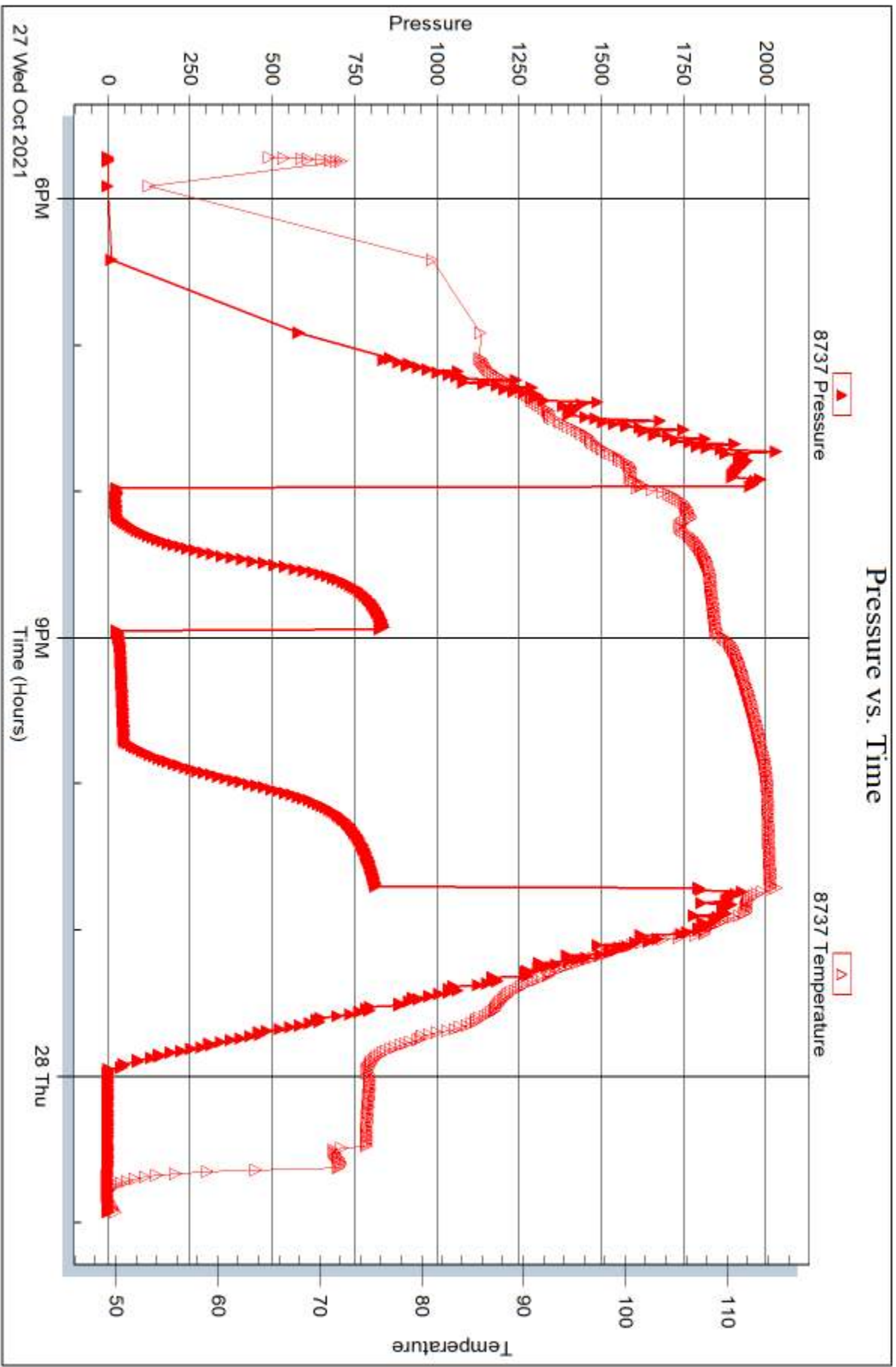
Laboratory Name:

Laboratory Location:

Recovery Comments: 384 FT of Gas in Pipe.

Pressure vs. Time







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67596

DST#: 4

ATTN: Keith Reavis

Test Start: 2021.10.28 @ 09:12:12

GENERAL INFORMATION:

Formation: **Lansing I&J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:30:42

Time Test Ended: 16:23:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4028.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8788

Inside

Press@RunDepth: 27.04 psig @ 4029.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.10.28

End Date: 2021.10.28

Last Calib.: 2021.10.28

Start Time: 09:12:17

End Time: 16:23:56

Time On Btm: 2021.10.28 @ 11:27:12

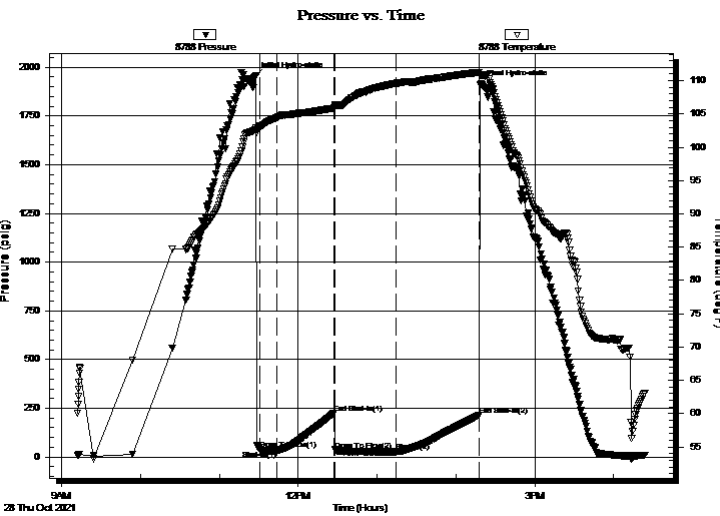
Time Off Btm: 2021.10.28 @ 14:18:12

TEST COMMENT: IF: Weak Blow . Built to 4.97", in the Bucket. Had 9-11 Feet of Fill. (10)

IS: No Blow . (45)

FF: Fair Blow . Built to 8 1/4", in the Bucket. (45)

FS: No Blow . (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.25	102.66	Initial Hydro-static
4	40.30	103.26	Open To Flow (1)
17	33.74	104.42	Shut-In(1)
61	226.56	105.87	End Shut-In(1)
61	36.60	106.36	Open To Flow (2)
107	27.04	109.61	Shut-In(2)
171	215.38	111.24	End Shut-In(2)
171	1909.53	110.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	GOSM 1%g 99%m	0.17
0.00	116' 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

Younger Energy Company

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

ATTN: Keith Reavis

30-26s-13w Pratt Co Ks

Jarboe "21" 1-30

Job Ticket: 67596

DST#: 4

Test Start: 2021.10.28 @ 09:12:12

GENERAL INFORMATION:

Formation: **Lansing I&J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:30:42

Time Test Ended: 16:23:57

Interval: 4028.00 ft (KB) To 4060.00 ft (KB) (TVD)

Total Depth: 4060.00 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: 1974.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4029.00 ft (KB)

Start Date: 2021.10.28

End Date: 2021.10.28

Start Time: 09:12:49

End Time: 16:24:43

Capacity: 8000.00 psig

Last Calib.: 2021.10.28

Time On Btm:

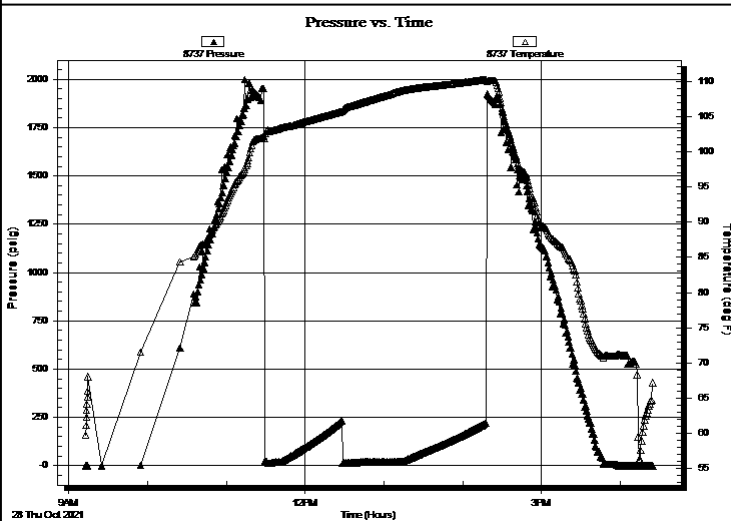
Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 4.97", in the Bucket. Had 9-11 Feet of Fill. (10)

IS: No Blow . (45)

FF: Fair Blow . Built to 8 1/4", in the Bucket. (45)

FS: No Blow . (60)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
12.00	GOSM 1%g 99%m	0.17
0.00	116' 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

FLUID SUMMARY

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67596

DST#: 4

ATTN: Keith Reavis

Test Start: 2021.10.28 @ 09:12:12

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:

8000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
12.00	GOSM 1%g 99%m	0.168
0.00	116' GIP 100%g	0.000

Total Length: 12.00 ft Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

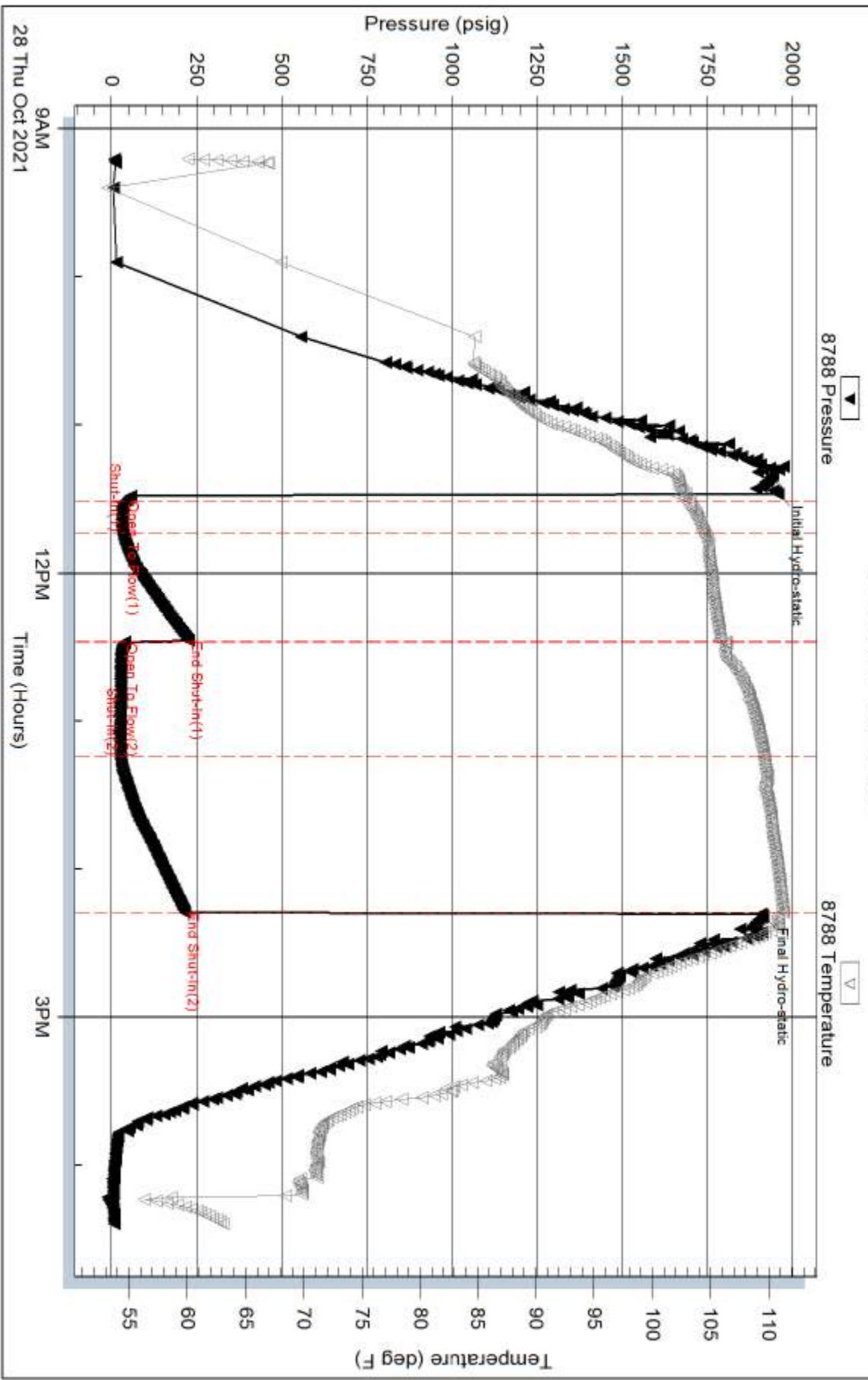
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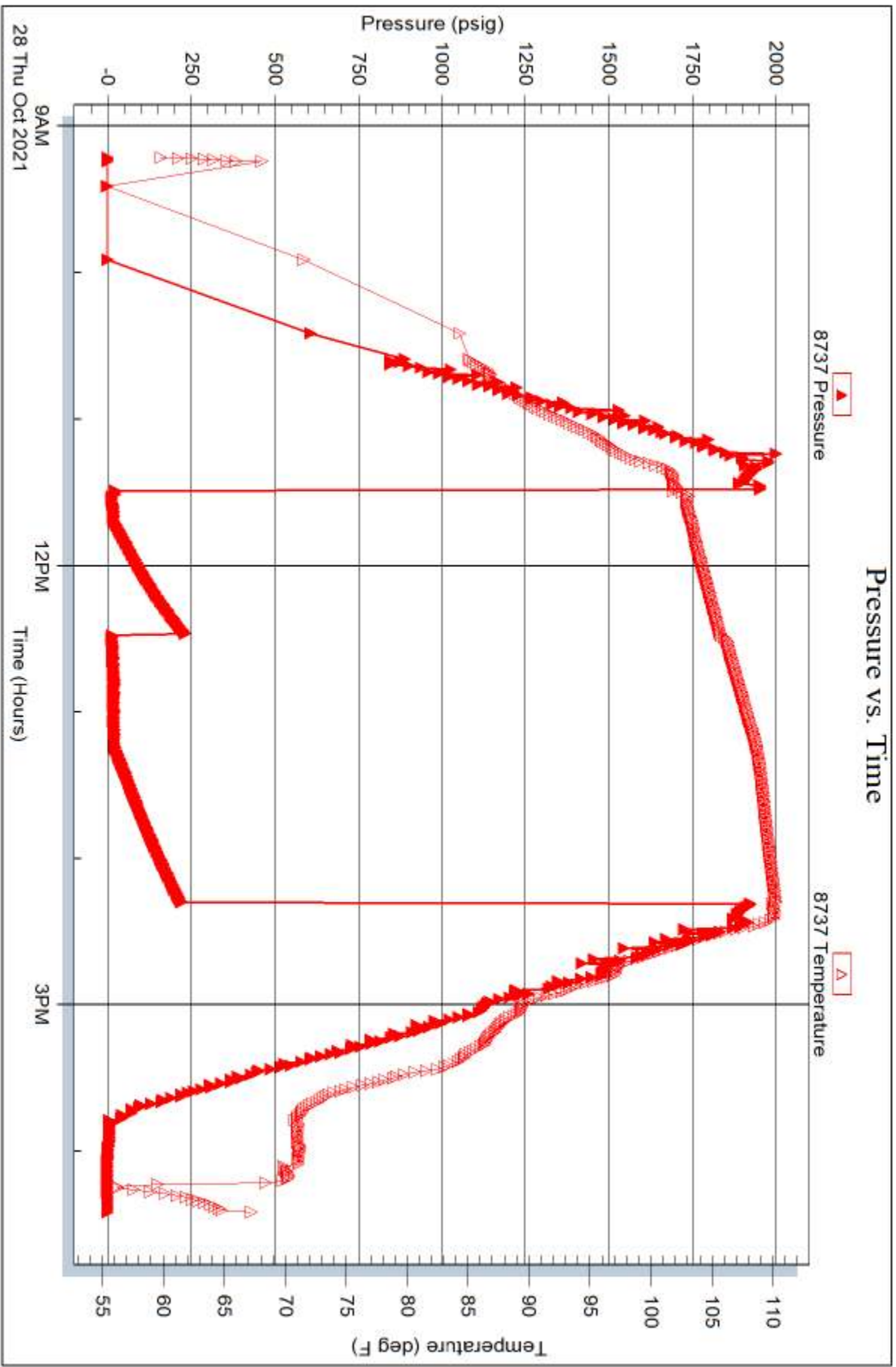
Laboratory Name:

Laboratory Location:

Recovery Comments: 116 Feet of Gas in Pipe.

Pressure vs. Time







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67597

DST#: 5

ATTN: Keith Reavis

Test Start: 2021.10.29 @ 13:03:11

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:47:56

Time Test Ended: 20:24:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4204.00 ft (KB) To 4256.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 4256.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 8788

Inside

Press@RunDepth: 134.66 psig @ 4208.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.10.29

End Date:

2021.10.29

Last Calib.:

2021.10.29

Start Time: 13:03:16

End Time:

20:24:55

Time On Btm:

2021.10.29 @ 14:46:41

Time Off Btm:

2021.10.29 @ 18:16:11

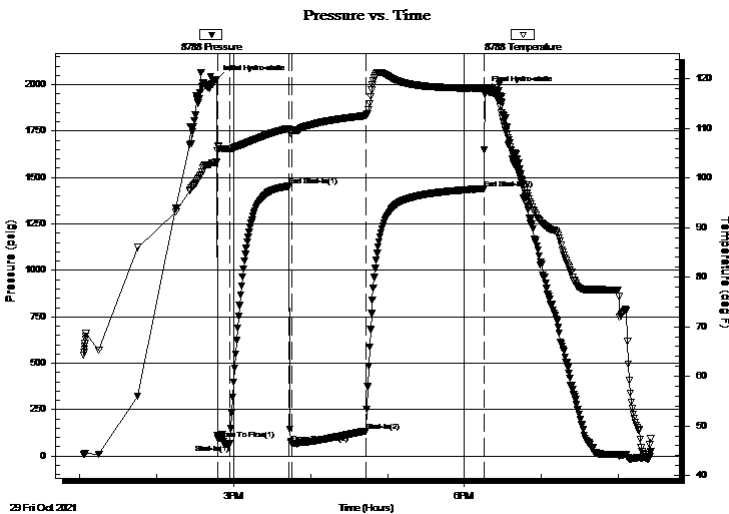
TEST COMMENT: IF: Strong Blow . B.O.B. in 2 mins. Built to 125". Tagged 20' High, Slid 10' on open. (10)

IS: Weak Blow . Built to 1 1/2", in the Bucket. (45)

FF: Strong Blow . B.O.B., immediate on open. Built over 800". G.T.S. in 32 mins. Gauged Gas. (60)

FS: Fair Blow . Built to 8.95". (90)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.87	103.20	Initial Hydro-static
2	92.49	106.48	Open To Flow (1)
11	63.12	105.94	Shut-In(1)
57	1453.21	110.04	End Shut-In(1)
59	67.58	109.42	Open To Flow (2)
117	134.66	112.60	Shut-In(2)
209	1439.98	118.11	End Shut-In(2)
210	1969.64	118.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOSM 2%g 98m	0.91
34.00	GM 1%g 99% m	0.48

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	54.12	25.65
Last Gas Rate	0.13	77.25	34.30
Max. Gas Rate	0.13	77.25	34.30



DRILL STEM TEST REPORT

Younger Energy Company
 9415 E Harry St. Suite 403 Bldg 400
 Wichita, Ks. 67207
 ATTN: Keith Reavis

30-26s-13w Pratt Co Ks
Jarboe "21" 1-30
 Job Ticket: 67597 **DST#: 5**
 Test Start: 2021.10.29 @ 13:03:11

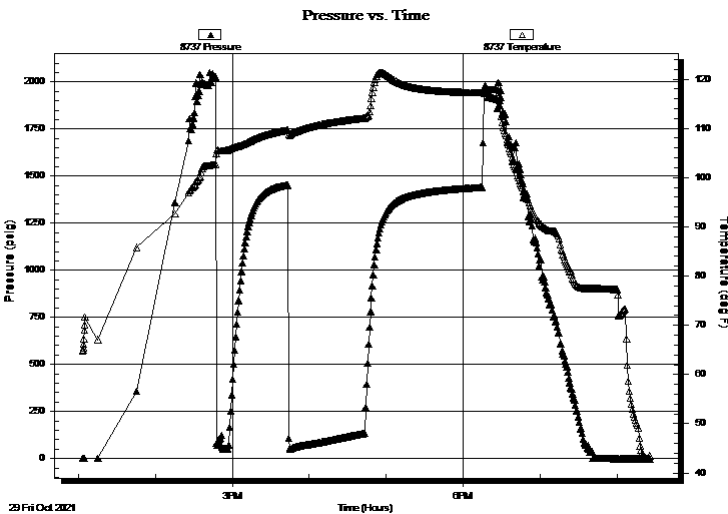
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:47:56
 Time Test Ended: 20:24:56
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
Interval: 4204.00 ft (KB) To 4256.00 ft (KB) (TVD)
 Reference Elevations: 1974.00 ft (KB)
 Total Depth: 4256.00 ft (KB) (TVD) 1961.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4208.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.29 End Date: 2021.10.29 Last Calib.: 2021.10.29
 Start Time: 13:03:25 End Time: 20:25:19 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 2 mins. Built to 125". Tagged 20' High, Slid 10' on open. (10)
 IS: Weak Blow . Built to 1 1/2", in the Bucket. (45)
 FF: Strong Blow . B.O.B., immediate on open. Built over 800". G.T.S. in 32 mins. Gauged Gas. (60)
 FS: Fair Blow . Built to 8.95". (90)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOSM 2%g 98m	0.91
34.00	GM 1%g 99% m	0.48

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	54.12	25.65
Last Gas Rate	0.13	77.25	34.30
Max. Gas Rate	0.13	77.25	34.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67597

DST#: 5

ATTN: Keith Reavis

Test Start: 2021.10.29 @ 13:03:11

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:

7100 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	GOSM 2%g 98m	0.912
34.00	GM 1%g 99% _m	0.477

Total Length: 99.00 ft Total Volume: 1.389 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: P-MWL Matt

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Younger Energy Company

30-26s-13w Pratt Co Ks

9415 E Harry St. Suite 403 Bldg 400
Wichita, Ks. 67207

Jarboe "21" 1-30

Job Ticket: 67597

DST#: 5

ATTN: Keith Reavis

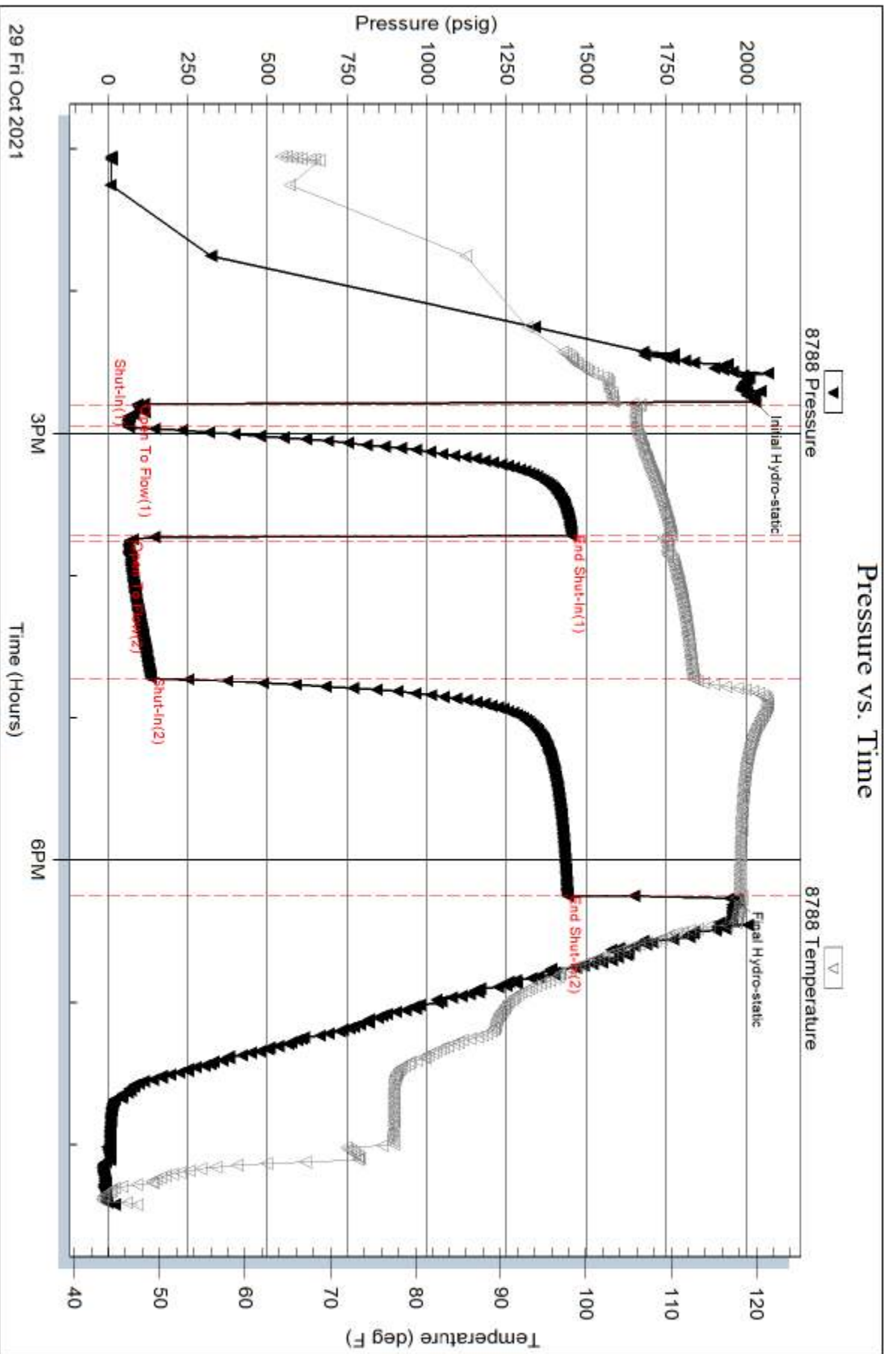
Test Start: 2021.10.29 @ 13:03:11

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	40	0.13	54.12	25.65
2	50	0.13	66.29	30.20
2	60	0.13	77.25	34.30

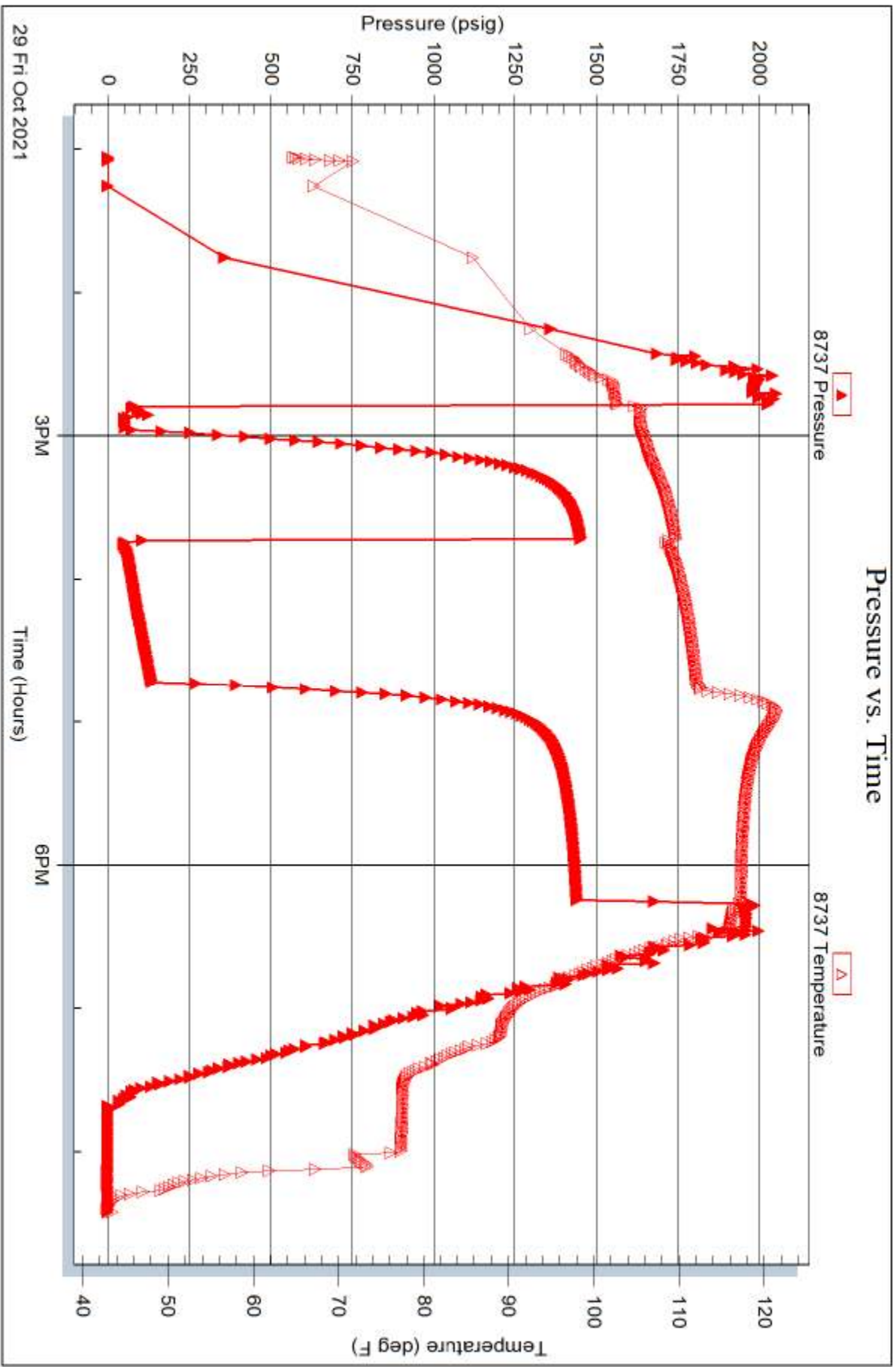


Serial #: 8737

Outside Younger Energy Company

Jarboe "21" 1-30

DST Test Number: 5





HURRICANE SERVICES INC

RECEIVED NOV 2 2021

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

Customer:
YOUNGER ENERGY COMPANY
9415 E HARRY ST
SUITE 403, BUILDING 400
WICHITA, KS 67207-5083

Invoice Date: 10/22/2021
Invoice #: 0356321
Lease Name: Jarboe '21'
Well #: 1-30 (New)
County: Pratt, Ks
Job Number: WP2016
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-CON	235.000	18.900	4,441.50
Cement Class A	200.000	15.300	3,060.00
Calcium Chloride	376.000	0.675	253.80
Cello Flake	51.000	1.575	80.33
8 5/8" Flapper insert valve	1.000	337.500	337.50
8 5/8" Top rubber plug	1.000	157.500	157.50
8 5/8" Centralizer x 12 1/4"	3.000	81.000	243.00
Light Eq Mileage	10.000	1.800	18.00
Heavy Eq Mileage	10.000	3.600	36.00
Ton Mileage	205.000	1.350	276.75
Depth Charge 501'-1000'	1.000	1,125.000	1,125.00
Cement Plug Container	1.000	225.000	225.00
Cement Data Acquisition	1.000	225.000	225.00

131
Cement surface rsg

Total 10,479.38

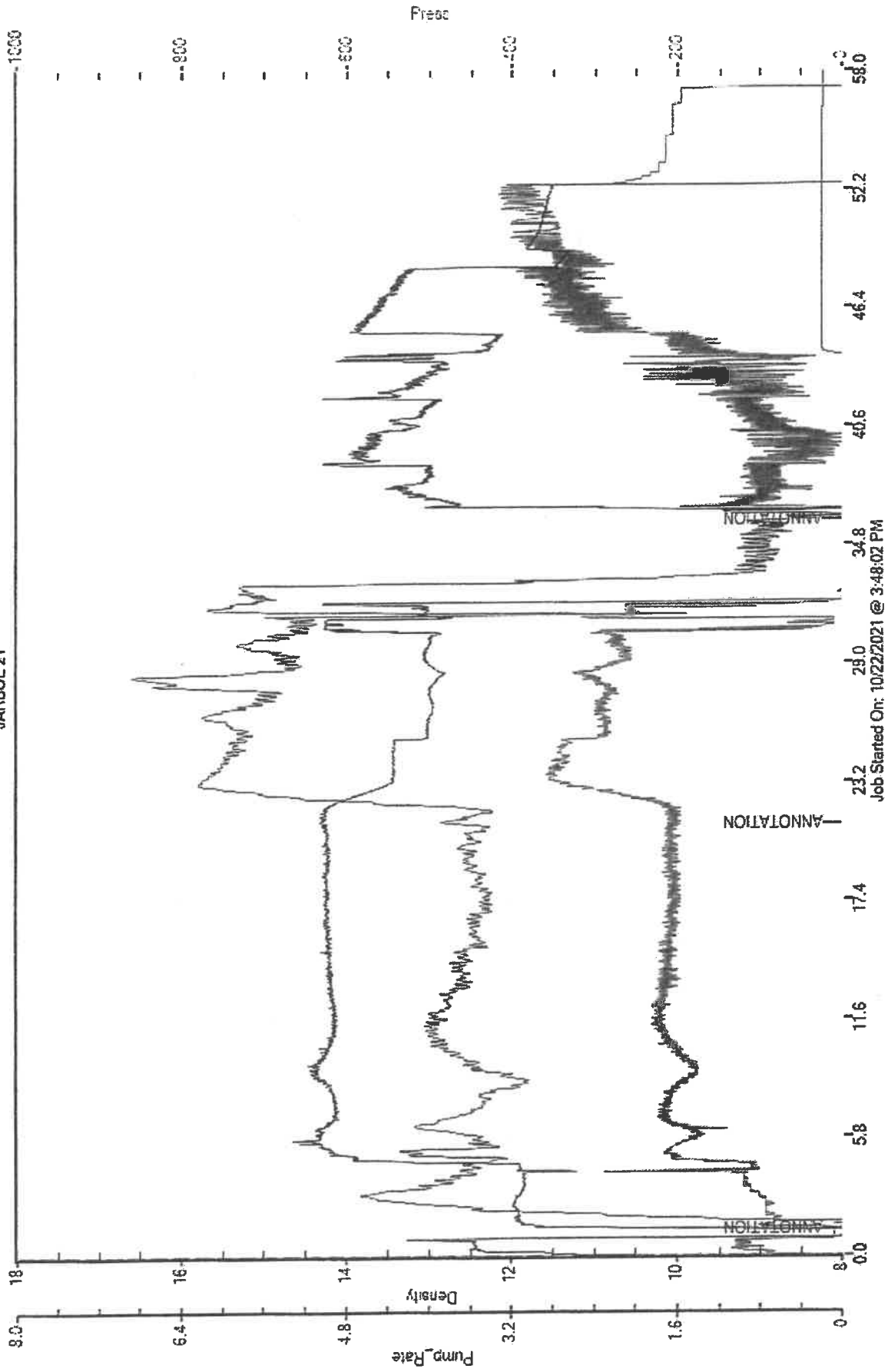
TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus 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!

*Open line 21 = 1-30
copy to Ks-74
JIB*

YOUNGER ENERGY COMPANY
JARBOE 21





RECEIVED NOV 15 2021

HURRICANE SERVICES INC

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

Customer:

YOUNGER ENERGY COMPANY
9415 E HARRY ST
SUITE 403, BUILDING 400
WICHITA, KS 67207-5083

Invoice Date: 10/31/2021
Invoice #: 0356604
Lease Name: Jarboe '21'
Well #: 1-30 (New)
County: Pratt, Ks
Job Number: WP2043
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	150.000	25.200	3,780.00
H-Plug	50.000	11.700	585.00
Cello Flake	39.000	1.575	61.43
Gas Block	423.000	2.700	1,142.10
5 1/2" Floatshoe-Flapper AFU	1.000	337.500	337.50
5 1/2" LD Plug & Baffle	1.000	315.000	315.00
Cement baskets 5 1/2"	1.000	270.000	270.00
5 1/2" Turbolizers	15.000	72.000	1,080.00
Mud flush	1,000.000	0.900	900.00
Light Eq Mileage	10.000	1.800	18.00
Heavy Eq Mileage	10.000	3.600	36.00
Ton Mileage	92.000	1.350	124.20
Depth Charge 4001'-5000'	1.000	2,250.000	2,250.00
Cement Plug Container	1.000	225.000	225.00
Cement Data Acquisition	1.000	225.000	225.00

+231
Cement production csg

Total 11,349.23

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!

Jan 21
10/31/21
JAB

de



CEMENT YOUINGER ENERGY

Customer:	YOUINGER ENERGY COMPANY	Well:	JARBOE 21 1-30	Ticket:	WP 2043
City, State:		County:	PRATT,KS	Date:	10/31/2021
Field Rep:		S-T-R:	30-26S-13W	Service:	LONGSTRING

Downhole Information

Hole Size:	7 7/8 in
Hole Depth:	4550 ft
Casing Size:	5 1/2 in
Casing Depth:	4551.34 ft
Tubing / Liner:	in
PLUG DEPTH:	4508.92 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	107.3 bbls

15.5#

Calculated Slurry - Lead

Blend:	H-LONG
Weight:	15.0 ppg
Water / Sk:	5.8 gal / sk
Yield:	1.43 ft³ / sk
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	38.3 bbls
Total Sacks:	150 sk

Calculated Slurry - Tail

Blend:	
Weight:	ppg
Water / Sk:	gal / sk
Yield:	ft³ / sk
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sk

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
9:00AM			-	-	ON LOCATION- SPOT EQUIPMENT
10:20AM				-	RUN 5 1/2" X 15.5# CASING
				-	TURBO- 1,3,5,6,7,8,9,10,11,12,13,14,15,16,17
				-	BASKET- 17
12:00PM				-	CASING ON BOTTOM
12:16PM				-	BREAK CIRCULATION WITH RIG PUM AND MUD- CIRC. FOR 1 HR AND ROTATE
1:00PM	5.0	400.0	5.0	5.0	H2o AHEAD
1:05PM	5.0	400.0	24.0	29.0	MUDFLUSH
1:10PM	5.0	300.0	5.0	34.0	H2o SPACER
1:11PM	5.0	300.0	38.3	72.3	MIX 150 SKS H-LONG CEMENT @ 15 PPG
1:24PM				72.3	SHUT DOWN- CLEAR PUMP AND LINES- DROP LATCHDOWN PLUG
1:29PM	6.0	-	-		START DISPLACEMENT
1:42PM	5.0	400.0	81.0		LIFT PRESSURE
1:47PM	4.0	500.0	100.0		SLOW RATE
1:50PM	3.0	1,500.0	107.3		PLUG DOWN - HELD
					PLUG RATHOLE WITH 30 SKS H-PLUG CEMENT
			7.0		PLUG MOUSEHOLE WITH 20 SKS H-PLUG CEMENT
					JOB COMPLETE
					THANKS- KEVEN AND CREW

CREW	UNIT	SUMMARY		
Cementer: LESLEY		Average Rate	Average Pressure	Total Fluid
Pump Operator: OSBORN	179-522	4.6 bpm	475 psi	373 bbls
Bulk #1: WHITYFIELD	182-256			
Bulk #2:				