

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. 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
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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	StrataKan Exploration, LLC
Well Name	BEDFORD 21-1
Doc ID	1700555

All Electric Logs Run

Sonic
MIL
DUCP
DIL



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration, LLC**

100 S. Main St.
Plainville, KS 67663

ATTN: Jason Alm

Bedford #21-1

21-23s-12w Stafford,KS

Start Date: 2022.10.26 @ 00:45:25

End Date: 2022.10.26 @ 08:07:55

Job Ticket #: 68689 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.11.02 @ 09:03:22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68689

DST#: 1

ATTN: Jason Alm

Test Start: 2022.10.26 @ 00:45:25

GENERAL INFORMATION:

Formation: **LKC B-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:23:10

Time Test Ended: 08:07:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3410.00 ft (KB) To 3465.00 ft (KB) (TVD)

Reference Elevations: 1872.00 ft (KB)

Total Depth: 3465.00 ft (KB) (TVD)

1864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 100.25 psig @ 3411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.26

End Date:

2022.10.26

Last Calib.:

2022.10.26

Start Time: 00:45:30

End Time:

08:07:54

Time On Btm:

2022.10.26 @ 03:21:10

Time Off Btm:

2022.10.26 @ 05:55:10

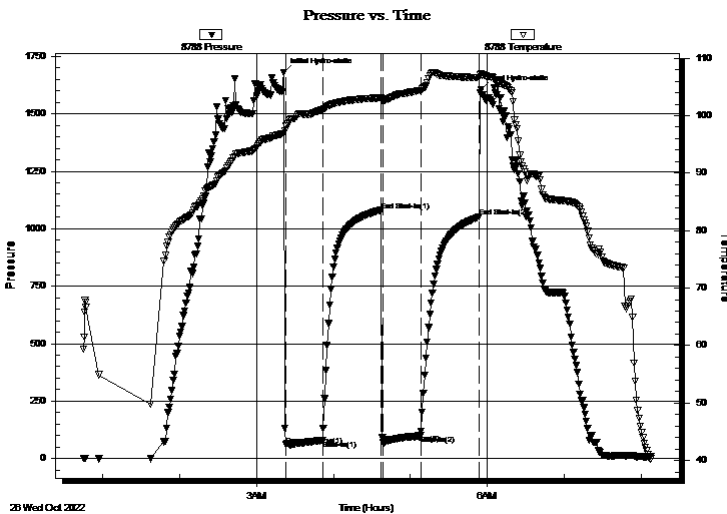
TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. G.T.S. in 26 mins. Built to 482.81". (30)

IS: No Blow in the Bucket. (45)

FF: Strong Blow . B.O.B. & G.T.S., immediate. Built to 500.40". (30)

FS: Weak Blow . Built to .72". (45)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.53	96.92	Initial Hydro-static
2	59.74	98.31	Open To Flow (1)
31	78.68	101.06	Shut-In(1)
77	1079.61	103.11	End Shut-In(1)
78	68.52	102.60	Open To Flow (2)
107	100.25	104.40	Shut-In(2)
152	1050.41	106.66	End Shut-In(2)
154	1605.04	107.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 25%g 9%o 66% m	0.66
63.00	GVSOCM 13%g 2%o 85% m	0.88
45.00	GOSM 2%g 98% m	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.74	11.28
Last Gas Rate	0.13	18.08	12.16
Max. Gas Rate	0.13	18.08	12.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Exploration, LLC

21-23s-12w Stafford, KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68689

DST#: 1

ATTN: Jason Alm

Test Start: 2022.10.26 @ 00:45:25

GENERAL INFORMATION:

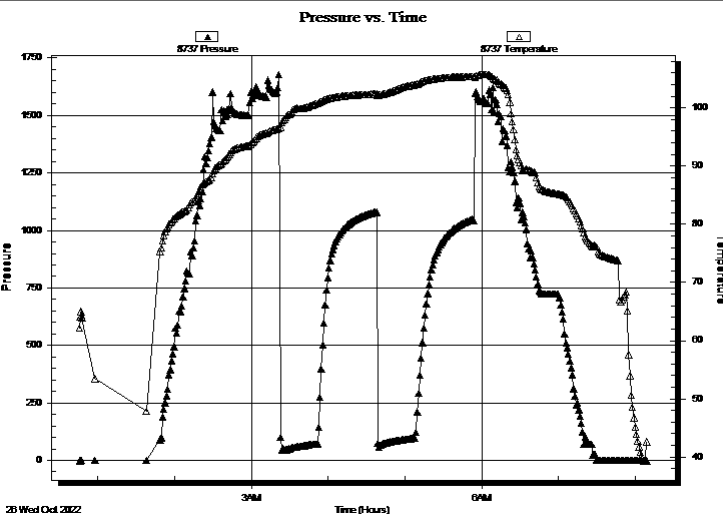
Formation: **LKC B-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:23:10
 Time Test Ended: 08:07:55
 Interval: **3410.00 ft (KB) To 3465.00 ft (KB) (TVD)**
 Total Depth: 3465.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1872.00 ft (KB)
 1864.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8737

Outside

Press@RunDepth: psig @ 3411.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.10.26 End Date: 2022.10.26 Last Calib.: 2022.10.26
 Start Time: 00:46:00 End Time: 08:08:39 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. G.T.S. in 26 mins. Built to 482.81". (30)
 IS: No Blow in the Bucket. (45)
 FF: Strong Blow . B.O.B. & G.T.S., immediate. Built to 500.40". (30)
 FS: Weak Blow . Built to .72". (45)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 25%g 9%o 66%m	0.66
63.00	GVSOCM 13%g 2%o 85%m	0.88
45.00	GOSM 2%g 98%m	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.74	11.28
Last Gas Rate	0.13	18.08	12.16
Max. Gas Rate	0.13	18.08	12.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68689

DST#: 1

ATTN: Jason Alm

Test Start: 2022.10.26 @ 00:45:25

Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 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: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.80 inches	Volume: 0.23 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.67 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3410.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	81.00 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			3385.00	
Shut In Tool	5.00			3390.00	
Hydraulic tool	5.00			3395.00	
EMT	3.00			3398.00	
Safety Joint	3.00			3401.00	
Packer	4.00			3405.00	26.00 Bottom Of Top Packer
Packer	5.00			3410.00	
Stubb	1.00			3411.00	
Recorder	0.00	8788	Inside	3411.00	
Recorder	0.00	8737	Outside	3411.00	
Perforations	3.00			3414.00	
Change Over Sub	1.00			3415.00	
Blank Spacing	31.00			3446.00	
Change Over Sub	1.00			3447.00	
Perforations	15.00			3462.00	
Bullnose	3.00			3465.00	55.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68689

DST#: 1

ATTN: Jason Alm

Test Start: 2022.10.26 @ 00:45:25

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:

7000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
61.00	GOCM 25%g 9%o 66%m	0.663
63.00	GVSOCM 13%g 2%o 85%m	0.884
45.00	GOSM 2%g 98%m	0.631

Total Length: 169.00 ft Total Volume: 2.178 bbl

Num Fluid Samples: 0

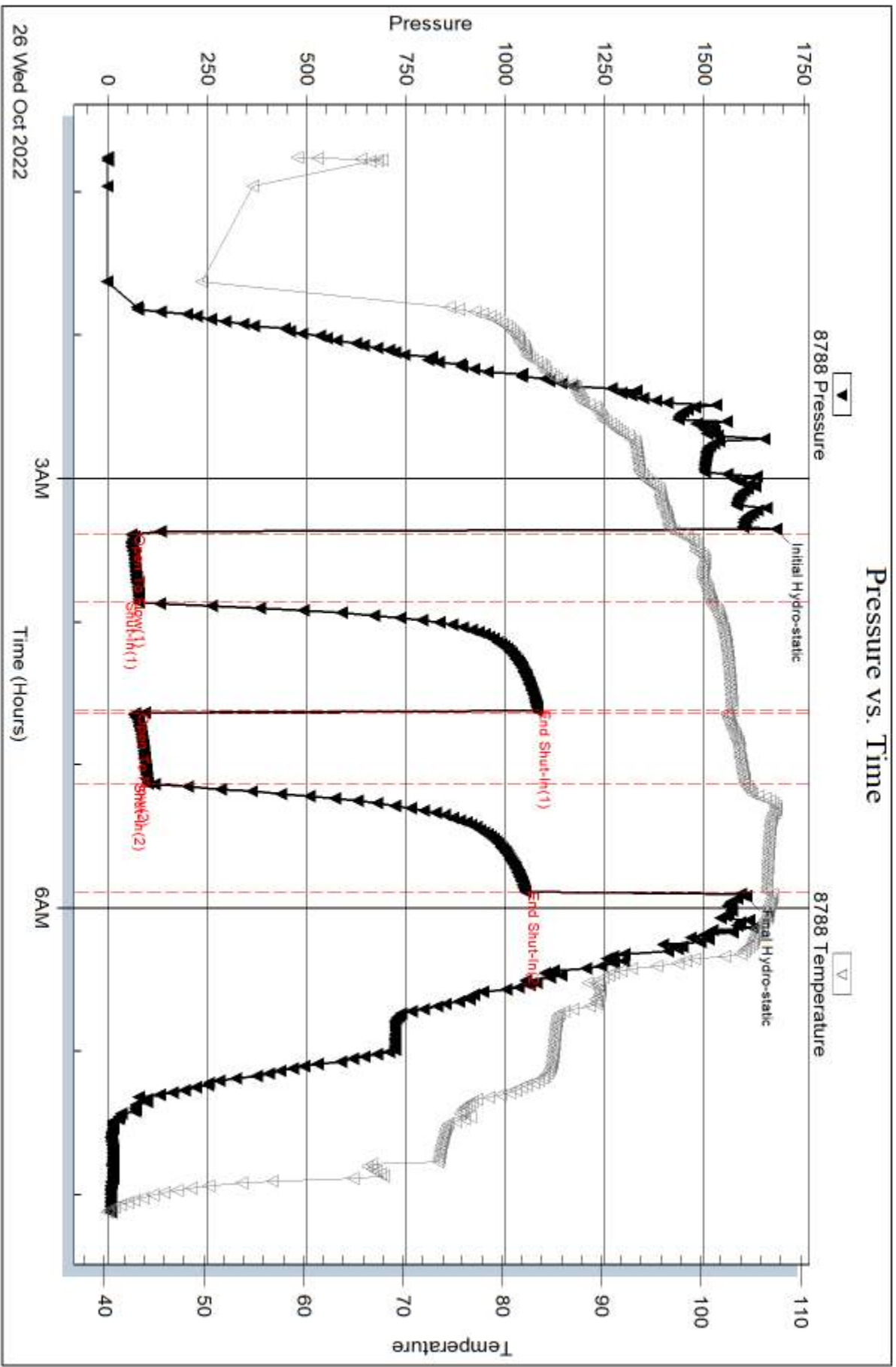
Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool Slid 5 Feet.

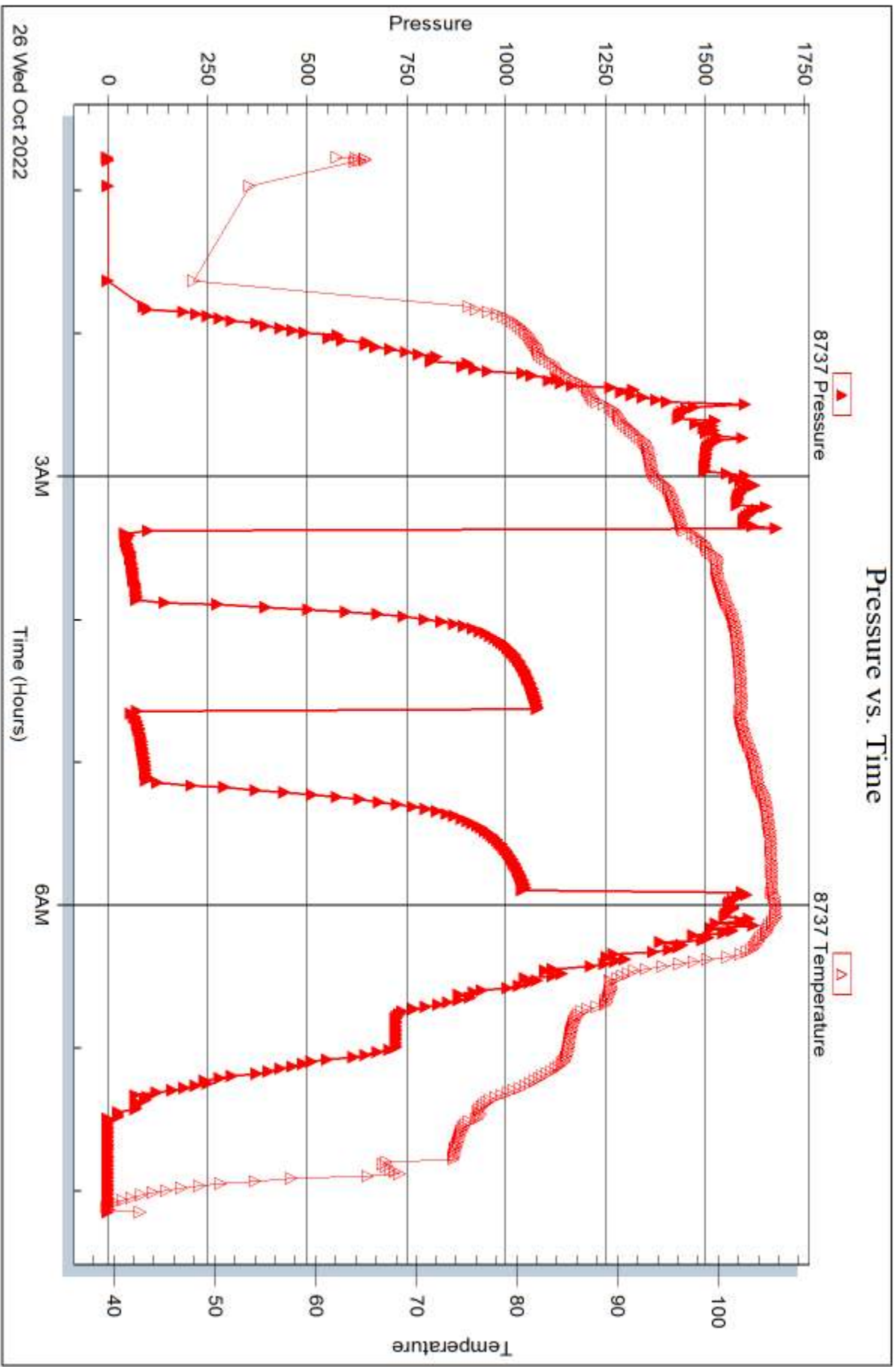


Serial #: 8737

Outside Stratakan Exploration, LLC

Bedford #21-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 68689

Printed: 2022.11.02 @ 09:03:22



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration, LLC**

100 S. Main St.
Plainville, KS 67663

ATTN: Jason Alm

Bedford #21-1

21-23s-12w Stafford,KS

Start Date: 2022.10.26 @ 20:40:12

End Date: 2022.10.27 @ 03:59:12

Job Ticket #: 68690 DST #: 2

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

Printed: 2022.11.02 @ 09:00:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

ATTN: Jason Alm

Job Ticket: 68690

DST#: 2

Test Start: 2022.10.26 @ 20:40:12

GENERAL INFORMATION:

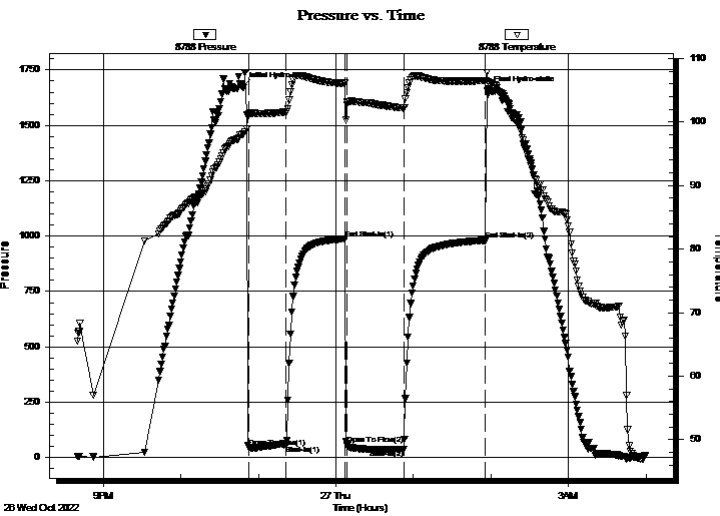
Formation: **LKC I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:52:42
 Time Test Ended: 03:59:12
 Interval: **3555.00 ft (KB) To 3586.00 ft (KB) (TVD)**
 Total Depth: 3586.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1872.00 ft (KB)
 1864.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 37.61 psig @ 3556.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.10.26 End Date: 2022.10.27 Last Calib.: 2022.10.27
 Start Time: 20:40:17 End Time: 03:59:11 Time On Btm: 2022.10.26 @ 22:47:57
 Time Off Btm: 2022.10.27 @ 01:56:57

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. Built to 739.30". G.T.S. in 25 mins. (30)
 IS: No Blow . (45)
 FF: Strong Blow . B.O.B. & G.T.S., immediate. Built to 288.44" @ 3/8 Choke. (45)
 FS: No Blow . (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.99	98.10	Initial Hydro-static
5	45.35	101.11	Open To Flow (1)
34	55.43	101.54	Shut-In(1)
80	987.48	106.10	End Shut-In(1)
81	61.59	102.71	Open To Flow (2)
125	37.61	102.16	Shut-In(2)
188	981.07	106.53	End Shut-In(2)
189	1656.48	107.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
66.00	GVSOCM 5%g 1%o 94%m	0.73

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	26.33	149.20
Last Gas Rate	0.38	1.67	58.87
Max. Gas Rate	0.38	26.33	149.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68690

DST#: 2

ATTN: Jason Alm

Test Start: 2022.10.26 @ 20:40:12

Tool Information

Drill Pipe:	Length: 3508.00 ft	Diameter: 3.80 inches	Volume: 49.21 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: 30.00 ft	Diameter: 2.80 inches	Volume: 0.23 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 49.44 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3555.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	57.00 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			3530.00	
Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
EMT	3.00			3543.00	
Safety Joint	3.00			3546.00	
Packer	4.00			3550.00	26.00 Bottom Of Top Packer
Packer	5.00			3555.00	
Stubb	1.00			3556.00	
Recorder	0.00	8788	Inside	3556.00	
Recorder	0.00	8737	Outside	3556.00	
Perforations	27.00			3583.00	
Bullnose	3.00			3586.00	31.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68690

DST#: 2

ATTN: Jason Alm

Test Start: 2022.10.26 @ 20:40:12

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.76 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
66.00	GVSOCM 5%g 1%o 94%m	0.733

Total Length: 66.00 ft Total Volume: 0.733 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:

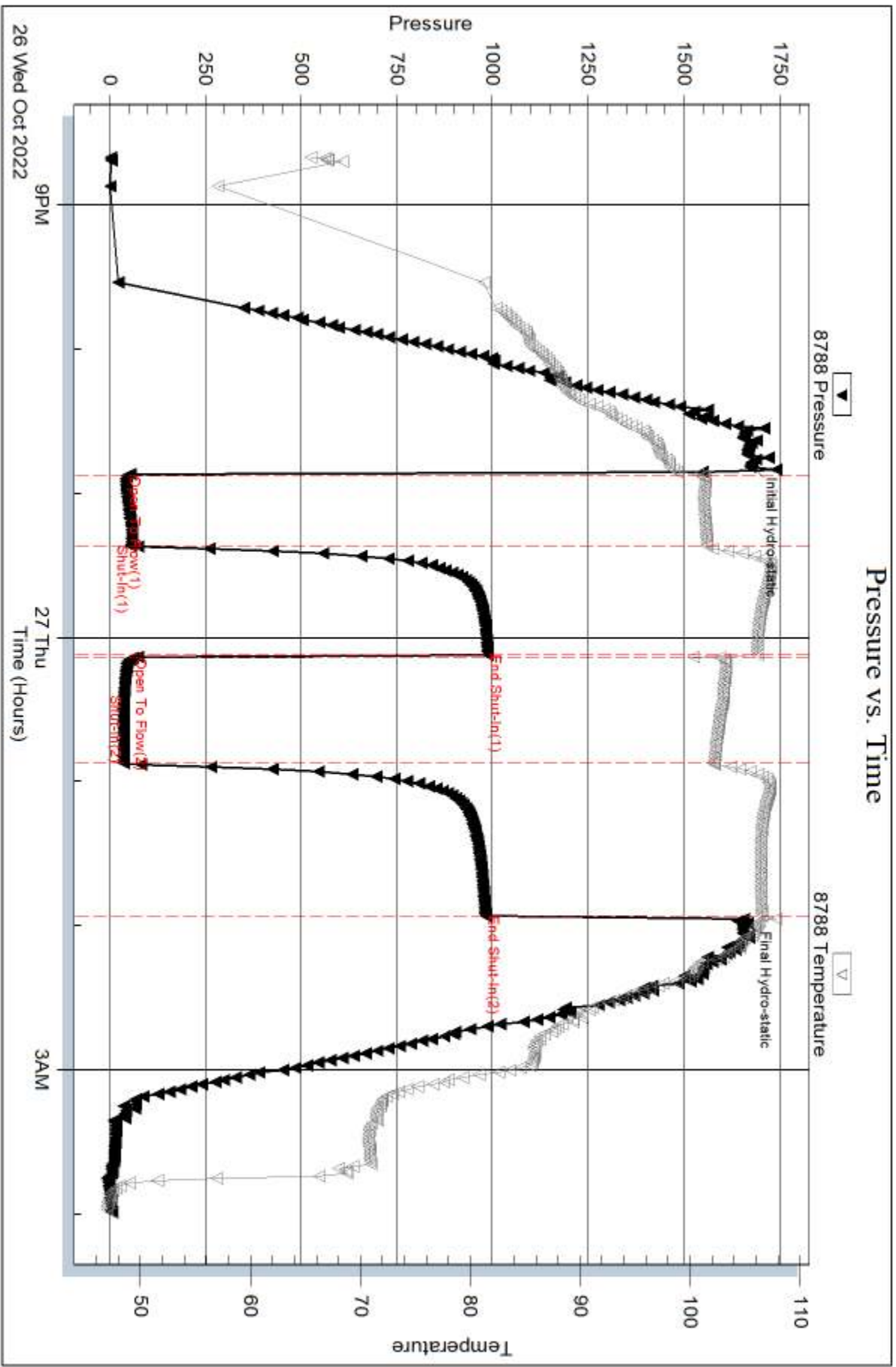
Serial #: 8788

Inside

Stratakan Exploration, LLC

Bedford #21-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68690

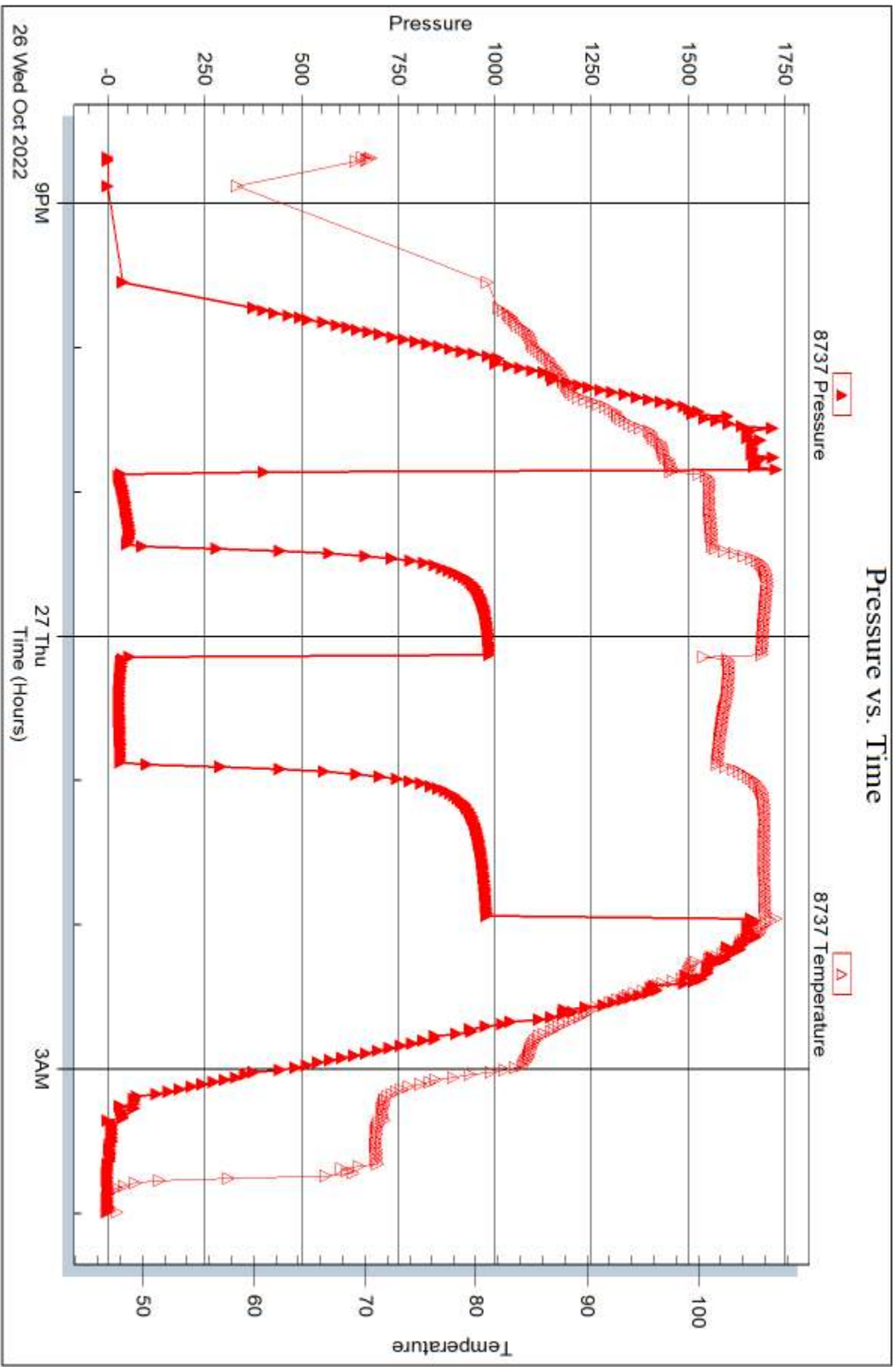
Printed: 2022.11.02 @ 09:00:26

Serial #: 8737

Outside Stratakan Exploration, LLC

Bedford #21-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68690

Printed: 2022.11.02 @ 09:00:26



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration, LLC**

100 S. Main St.
Plainville, KS 67663

ATTN: Jason Alm

Bedford #21-1

21-23s-12w Stafford,KS

Start Date: 2022.10.27 @ 20:15:03

End Date: 2022.10.28 @ 04:49:48

Job Ticket #: 68691 DST #: 3

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

Printed: 2022.11.02 @ 08:57:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68691

DST#: 3

ATTN: Jason Alm

Test Start: 2022.10.27 @ 20:15:03

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:05:48

Time Test Ended: 04:49:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3690.00 ft (KB) To 3775.00 ft (KB) (TVD)

Reference Elevations: 1872.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

1864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 194.51 psig @ 3691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.27

End Date: 2022.10.28

Last Calib.: 2022.10.28

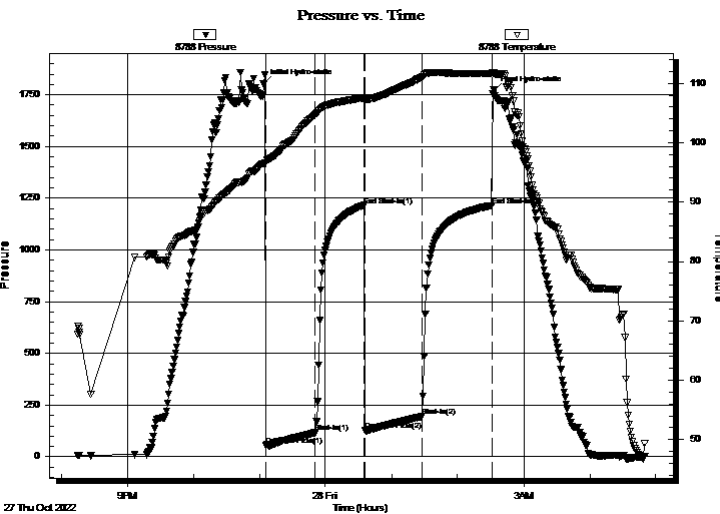
Start Time: 20:15:08

End Time: 04:49:48

Time On Btm: 2022.10.27 @ 23:03:48

Time Off Btm: 2022.10.28 @ 02:32:48

TEST COMMENT: IF: Strong Blow . B.O.B. in 21 mins. Built to 22.22". (45)
IS: No Blow . (45)
FF: Strong Blow . B.O.B. in 22 mins. Built to 20.85". (45)
FS: No Blow . (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.09	96.43	Initial Hydro-static
2	56.60	96.65	Open To Flow (1)
47	116.86	104.72	Shut-In(1)
91	1215.19	107.52	End Shut-In(1)
92	126.53	107.21	Open To Flow (2)
144	194.51	111.06	Shut-In(2)
208	1214.63	111.58	End Shut-In(2)
209	1771.91	111.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GMCW 5%g 35%m 60%w	0.66
63.00	GWCM 1%g 44%w 55%m	0.88
126.00	GOSWCM 10%g 5%w 85%m	1.77
121.00	GVSOWCM 5%g 2%o 1%w 92%m	1.70
0.00	383' 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

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68691

DST#: 3

ATTN: Jason Alm

Test Start: 2022.10.27 @ 20:15:03

GENERAL INFORMATION:

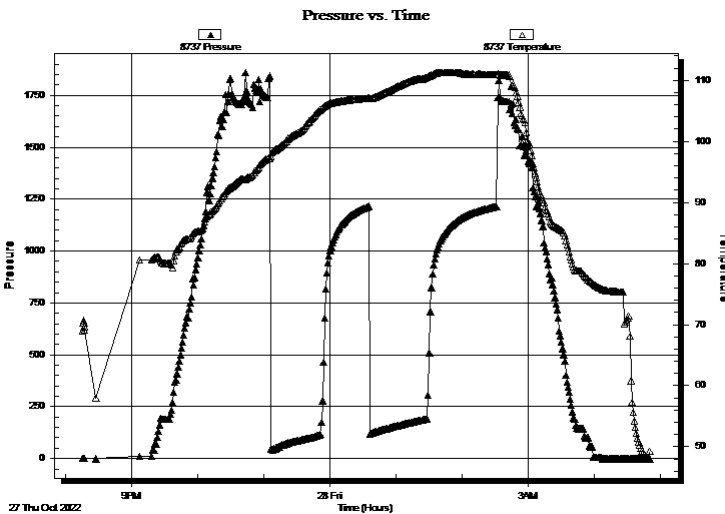
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 23:05:48
 Tester: Matt Smith
 Time Test Ended: 04:49:48
 Unit No: 68
Interval: 3690.00 ft (KB) To 3775.00 ft (KB) (TVD)
 Reference Elevations: 1872.00 ft (KB)
 Total Depth: 3775.00 ft (KB) (TVD)
 1864.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3691.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.10.27 End Date: 2022.10.28 Last Calib.: 2022.10.28
 Start Time: 20:15:34 End Time: 04:50:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 21 mins. Built to 22.22". (45)
 IS: No Blow . (45)
 FF: Strong Blow . B.O.B. in 22 mins. Built to 20.85". (45)
 FS: No Blow . (60)

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GMCW 5%g 35%m 60%w	0.66
63.00	GWCM 1%g 44%w 55%m	0.88
126.00	GOSWCM 10%g 5%w 85%m	1.77
121.00	GVSOWCM 5%g 2%o 1%w 92%m	1.70
0.00	383' 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

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68691

DST#: 3

ATTN: Jason Alm

Test Start: 2022.10.27 @ 20:15:03

Tool Information

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 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: 2100.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.80 inches	Volume: 0.23 bbl	Weight to Pull Loose: 28000.00 lb
			<u>Total Volume: 51.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3690.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	111.00 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			3665.00	
Shut In Tool	5.00			3670.00	
Hydraulic tool	5.00			3675.00	
EMT	3.00			3678.00	
Safety Joint	3.00			3681.00	
Packer	4.00			3685.00	26.00 Bottom Of Top Packer
Packer	5.00			3690.00	
Stubb	1.00			3691.00	
Recorder	0.00	8788	Inside	3691.00	
Recorder	0.00	8737	Outside	3691.00	
Perforations	3.00			3694.00	
Change Over Sub	1.00			3695.00	
Blank Spacing	63.00			3758.00	
Change Over Sub	1.00			3759.00	
Perforations	13.00			3772.00	
Bullnose	3.00			3775.00	85.00 Bottom Packers & Anchor
Total Tool Length:	111.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68691

DST#: 3

ATTN: Jason Alm

Test Start: 2022.10.27 @ 20:15:03

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:

48000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.76 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
61.00	GMCW 5%g 35%m 60%w	0.663
63.00	GWCM 1%g 44%w 55%m	0.884
126.00	GOSWCM 10%g 5%w 85%m	1.767
121.00	GVSOWCM 5%g 2%o 1%w 92%m	1.697
0.00	383' GIP 100%g	0.000

Total Length: 371.00 ft Total Volume: 5.011 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .35 @ 50 Degrees = 48000 Chlorides.

383 Feet of Gas in Pipe.

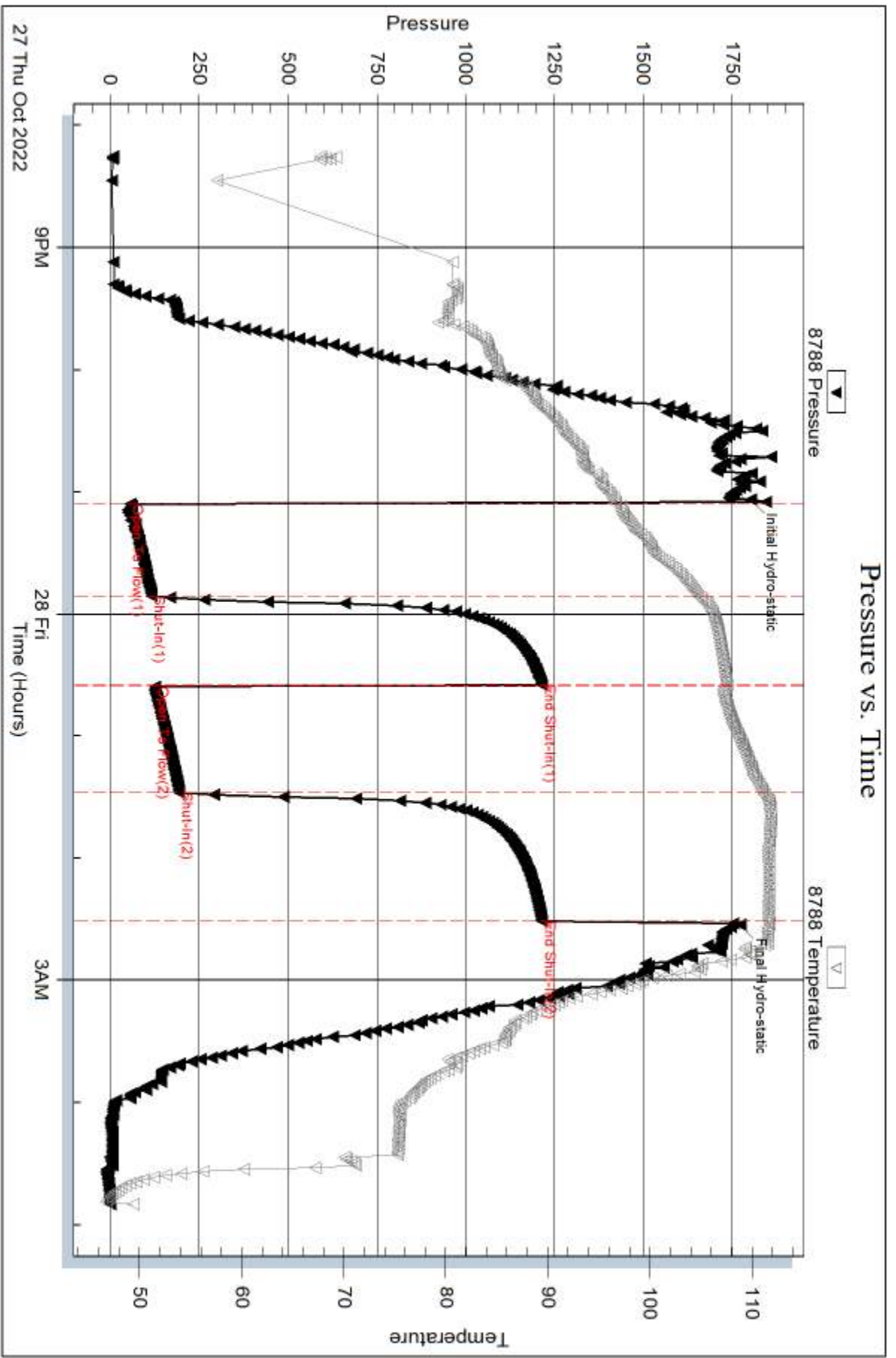
Serial #: 8788

Inside

Stratakan Exploration, LLC

Bedford #21-1

DST Test Number: 3

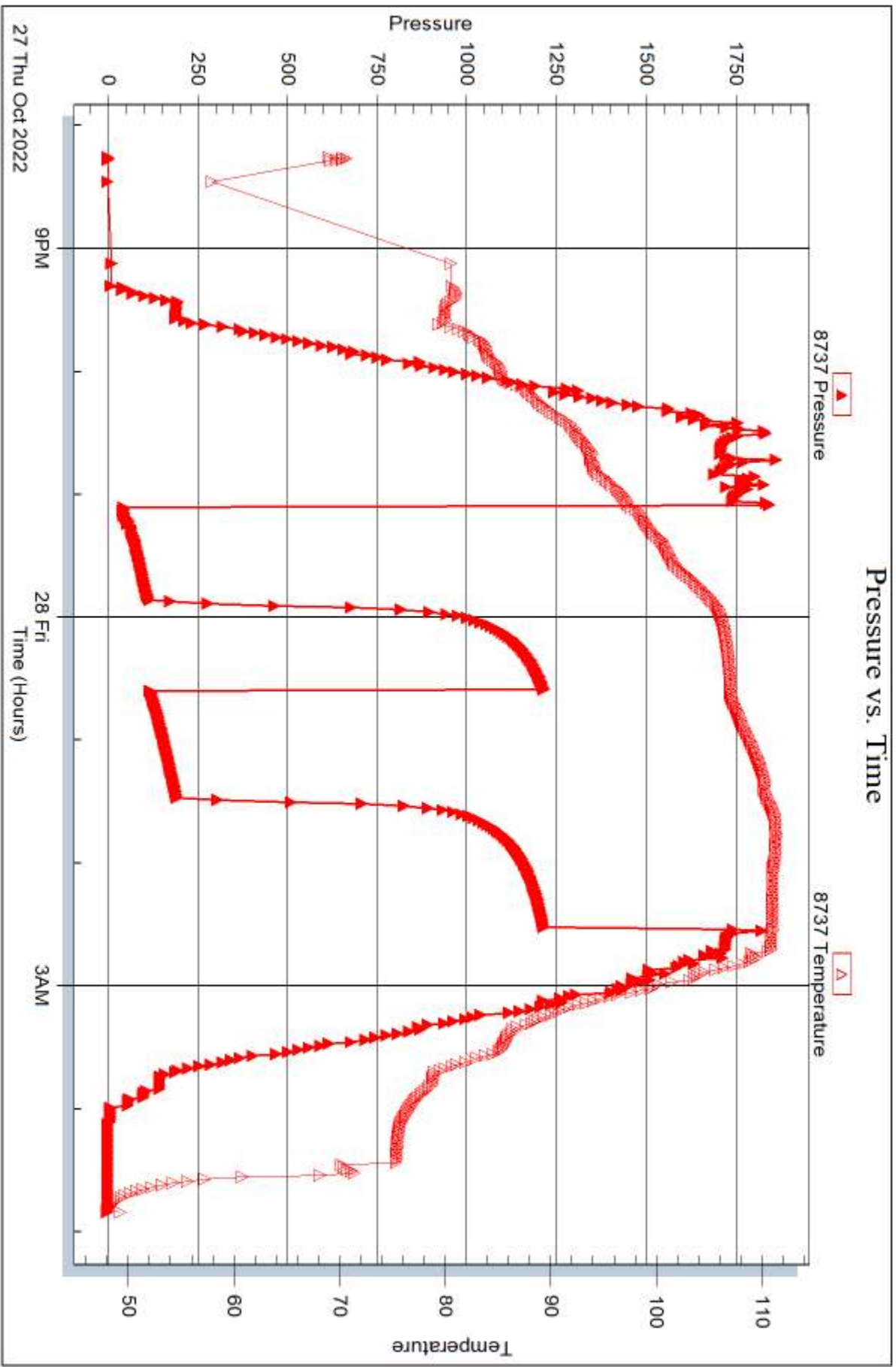


Serial #: 8737

Outside Stratakan Exploration, LLC

Bedford #21-1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration, LLC**

100 S. Main St.
Plainville, KS 67663

ATTN: Jason Alm

Bedford #21-1

21-23s-12w Stafford,KS

Start Date: 2022.10.28 @ 13:40:47

End Date: 2022.10.28 @ 21:58:17

Job Ticket #: 68692 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.11.02 @ 08:54:54



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration, LLC

21-23s-12w Stafford, KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

ATTN: Jason Alm

Job Ticket: 68692

DST#: 4

Test Start: 2022.10.28 @ 13:40:47

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:02

Time Test Ended: 21:58:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3760.00 ft (KB) To 3830.00 ft (KB) (TVD)

Reference Elevations: 1872.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

1864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 111.71 psig @ 3761.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.28

End Date:

2022.10.28

Last Calib.:

2022.10.28

Start Time: 13:40:52

End Time:

21:58:16

Time On Btm:

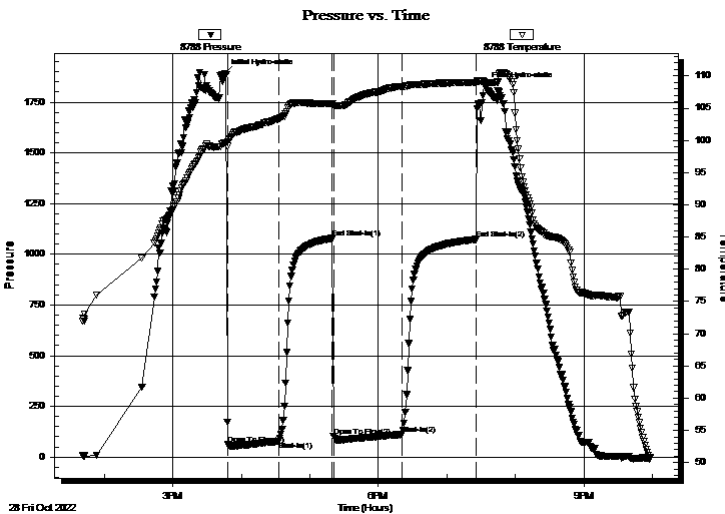
2022.10.28 @ 15:45:32

Time Off Btm:

2022.10.28 @ 19:33:32

TEST COMMENT: IF: Fair Blow . Built to 7.85". (45)
IS: No Blow . (45)
FF: Fair-Strong Blow . Built to 10.40". (60)
FS: No Blow . (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.04	99.59	Initial Hydro-static
3	64.09	99.79	Open To Flow (1)
47	76.80	103.36	Shut-In(1)
94	1079.16	105.71	End Shut-In(1)
95	100.91	105.38	Open To Flow (2)
156	111.71	108.33	Shut-In(2)
221	1073.81	108.96	End Shut-In(2)
228	1828.59	108.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOWCM 15%g 7%o 5%w 73%m	0.66
63.00	GVSOCM 10%g 5%o 85%m	0.88
53.00	GVSOCM 2%g 1%o 97%m	0.74
0.00	199' 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

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68692

DST#: 4

ATTN: Jason Alm

Test Start: 2022.10.28 @ 13:40:47

Tool Information

Drill Pipe:	Length: 3729.00 ft	Diameter: 3.80 inches	Volume: 52.31 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: 30.00 ft	Diameter: 2.80 inches	Volume: 0.23 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.54 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3760.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Added Jars for this test.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3730.00	
Shut In Tool	5.00			3735.00	
Hydraulic tool	5.00			3740.00	
Jars	5.00			3745.00	
EMT	3.00			3748.00	
Safety Joint	3.00			3751.00	
Packer	4.00			3755.00	31.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Recorder	0.00	8788	Inside	3761.00	
Recorder	0.00	8737	Outside	3761.00	
Perforations	3.00			3764.00	
Change Over Sub	1.00			3765.00	
Blank Spacing	31.00			3796.00	
Change Over Sub	1.00			3797.00	
Perforations	30.00			3827.00	
Bullnose	3.00			3830.00	70.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68692

DST#: 4

ATTN: Jason Alm

Test Start: 2022.10.28 @ 13:40:47

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 16.35 in³
Resistivity: ohm.m
Salinity: 10000.00 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: 10000 ppm

Recovery Information

Recovery Table

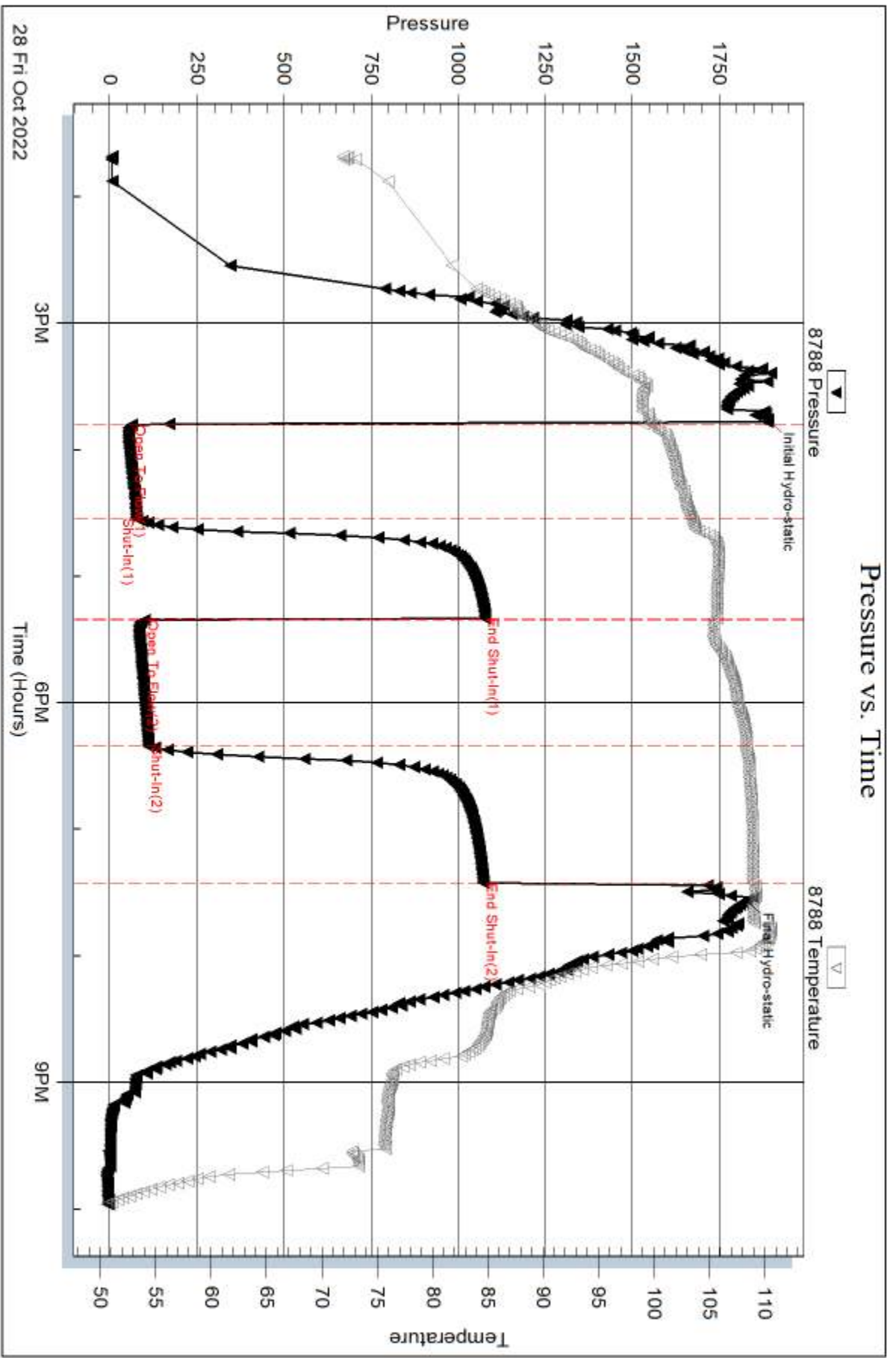
Length ft	Description	Volume bbl
61.00	GOWCM 15%g 7%o 5%w 73%m	0.663
63.00	GVSOCM 10%g 5%o 85%m	0.884
53.00	GVSOCM 2%g 1%o 97%m	0.743
0.00	199' GIP 100%g	0.000

Total Length: 177.00 ft Total Volume: 2.290 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

Recovery Comments: 199 Feet of Gas in Pipe.

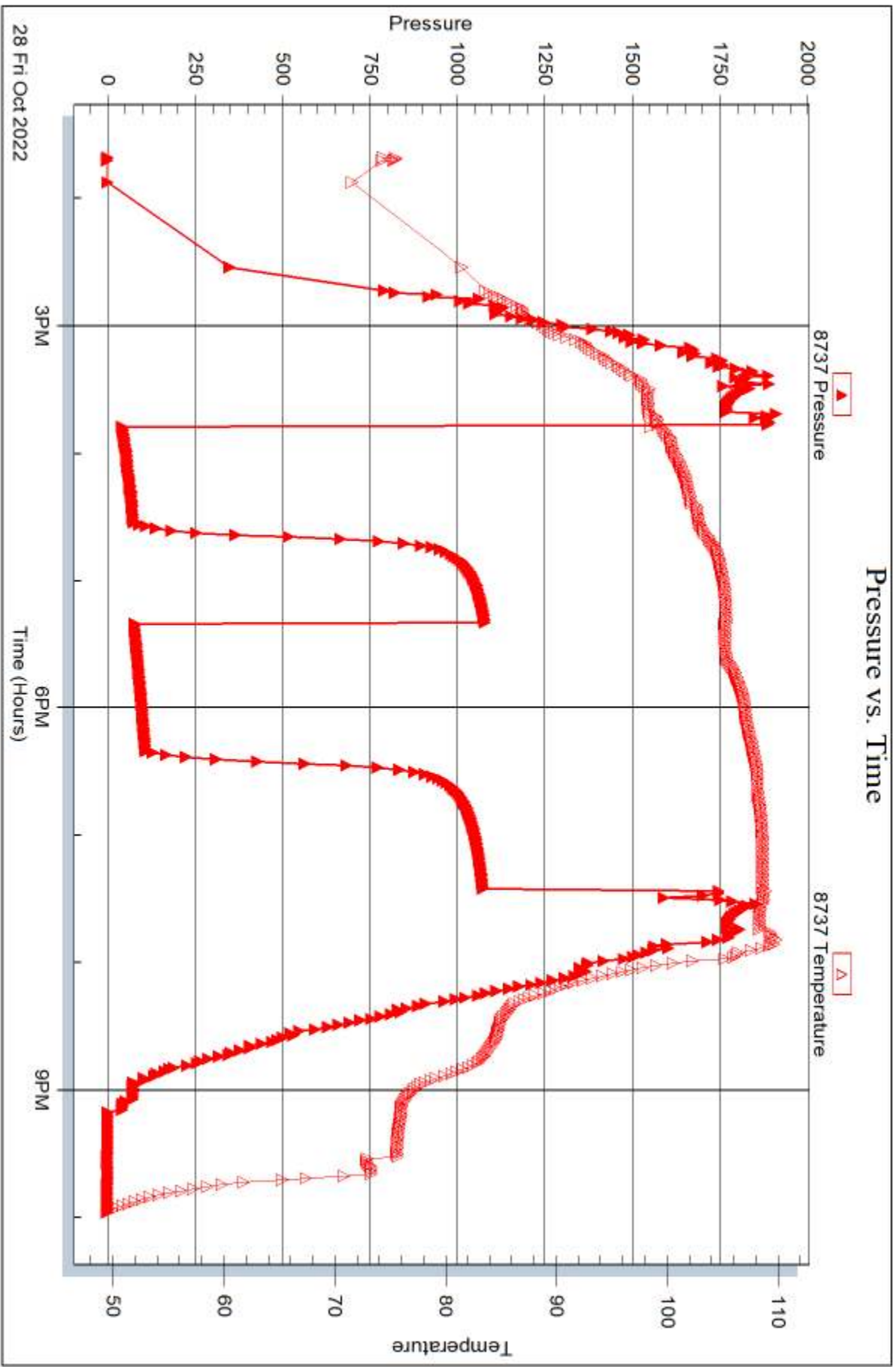


Serial #: 8737

Outside Stratakan Exploration, LLC

Bedford #21-1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration, LLC**

100 S. Main St.
Plainville, KS 67663

ATTN: Jason Alm

Bedford #21-1

21-23s-12w Stafford,KS

Start Date: 2022.10.29 @ 05:59:01

End Date: 2022.10.29 @ 14:29:46

Job Ticket #: 68693 DST #: 5

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

Printed: 2022.11.02 @ 08:54:15

Stratakan Exploration, LLC
21-23s-12w Stafford,KS
Bedford #21-1
DST # 5
Arbuckle
2022.10.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68693

DST#: 5

ATTN: Jason Alm

Test Start: 2022.10.29 @ 05:59:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:09:01

Time Test Ended: 14:29:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3762.00 ft (KB) To 3858.00 ft (KB) (TVD)

Reference Elevations: 1872.00 ft (KB)

Total Depth: 3858.00 ft (KB) (TVD)

1864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 1193.44 psig @ 3763.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.29

End Date: 2022.10.29

Last Calib.: 2022.10.29

Start Time: 05:59:06

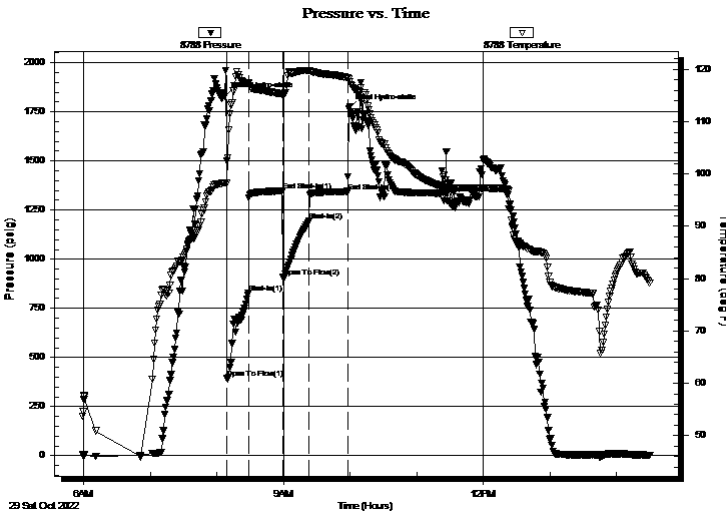
End Time: 14:29:45

Time On Btm: 2022.10.29 @ 08:06:46

Time Off Btm: 2022.10.29 @ 09:58:46

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 Min. Built to 243.18". (20)
IS: Weak Blow . Built to .85". (30)
FF: Strong Blow . B.O.B. in 45 secs. Built to 424.67". (15)
FS: Weak Blow . Built to 1.77", Reducing. (30)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.70	98.27	Initial Hydro-static
3	394.35	98.26	Open To Flow (1)
22	827.83	117.23	Shut-In(1)
53	1346.95	115.28	End Shut-In(1)
53	910.15	115.11	Open To Flow (2)
77	1193.44	119.74	Shut-In(2)
111	1345.20	118.42	End Shut-In(2)
112	1764.91	118.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	O&MCW 2%g 13%O 60% W 25%M	0.68
63.00	Gsy O&MCW 23%G 30%O 37%W	0.88
2793.00	Gassy oil	39.18
0.00	252 GIP	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

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68693

DST#: 5

ATTN: Jason Alm

Test Start: 2022.10.29 @ 05:59:01

Tool Information

Drill Pipe:	Length: 3729.00 ft	Diameter: 3.80 inches	Volume: 52.31 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: 26000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.80 inches	Volume: 0.23 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.54 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3762.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	127.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Reversed Fluid, Dopped the Bar.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3732.00	
Shut In Tool	5.00			3737.00	
Hydraulic tool	5.00			3742.00	
Jars	5.00			3747.00	
EMT	3.00			3750.00	
Safety Joint	3.00			3753.00	
Packer	4.00			3757.00	31.00 Bottom Of Top Packer
Packer	5.00			3762.00	
Stubb	1.00			3763.00	
Recorder	0.00	8788	Inside	3763.00	
Recorder	0.00	8737	Outside	3763.00	
Perforations	3.00			3766.00	
Change Over Sub	1.00			3767.00	
Blank Spacing	63.00			3830.00	
Change Over Sub	1.00			3831.00	
Perforations	24.00			3855.00	
Bullnose	3.00			3858.00	96.00 Bottom Packers & Anchor
Total Tool Length:	127.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration, LLC

21-23s-12w Stafford,KS

100 S. Main St.
Plainville, KS 67663

Bedford #21-1

Job Ticket: 68693

DST#: 5

ATTN: Jason Alm

Test Start: 2022.10.29 @ 05:59:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 16.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	O&MCW 2%g 13%O 60% W 25%M	0.677
63.00	Gsy O&MCW 23%G 30%O 37%W	0.884
2793.00	Gassy oil	39.178
0.00	252 GIP	0.000

Total Length: 2918.00 ft

Total Volume: 40.739 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8788

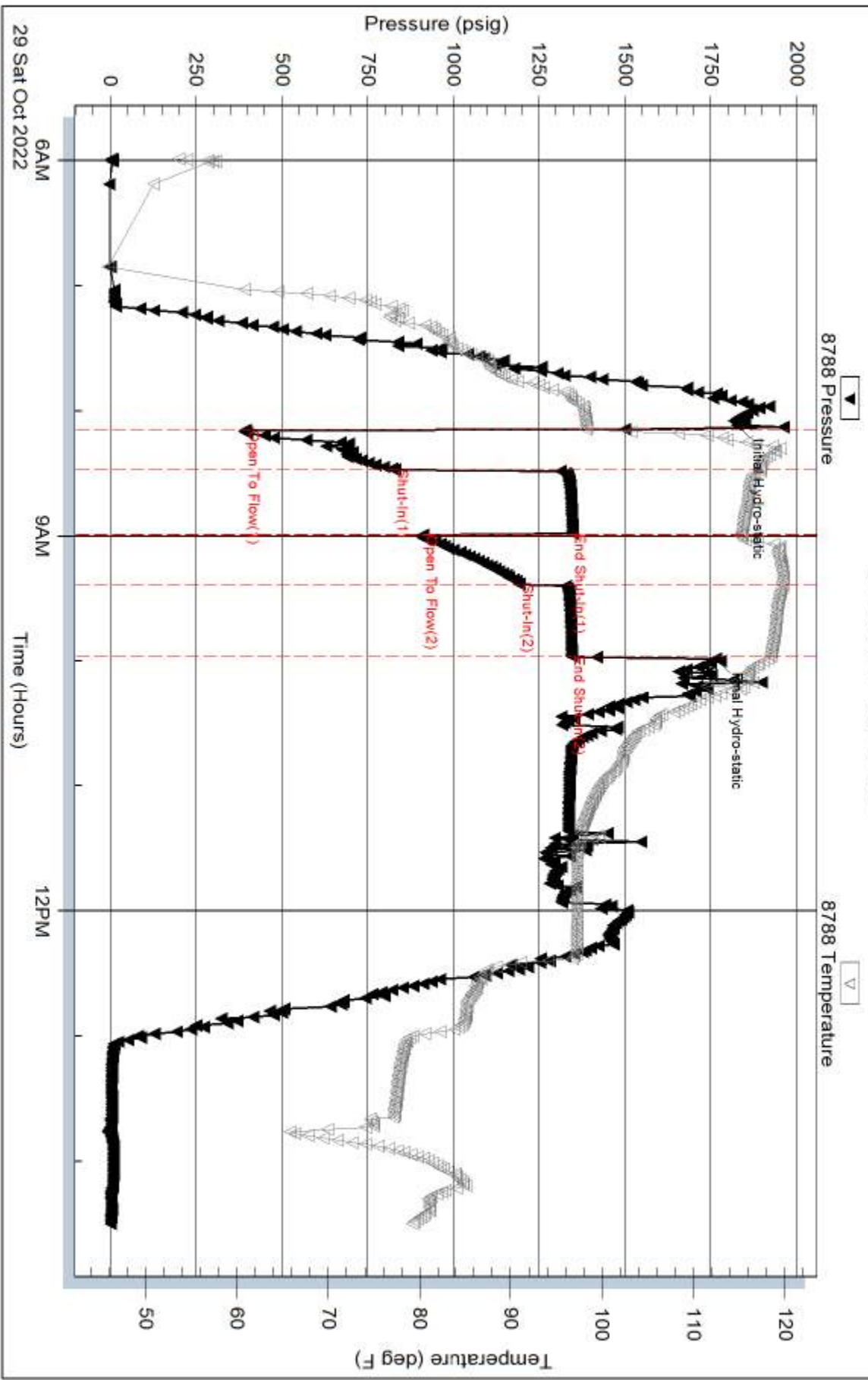
Inside

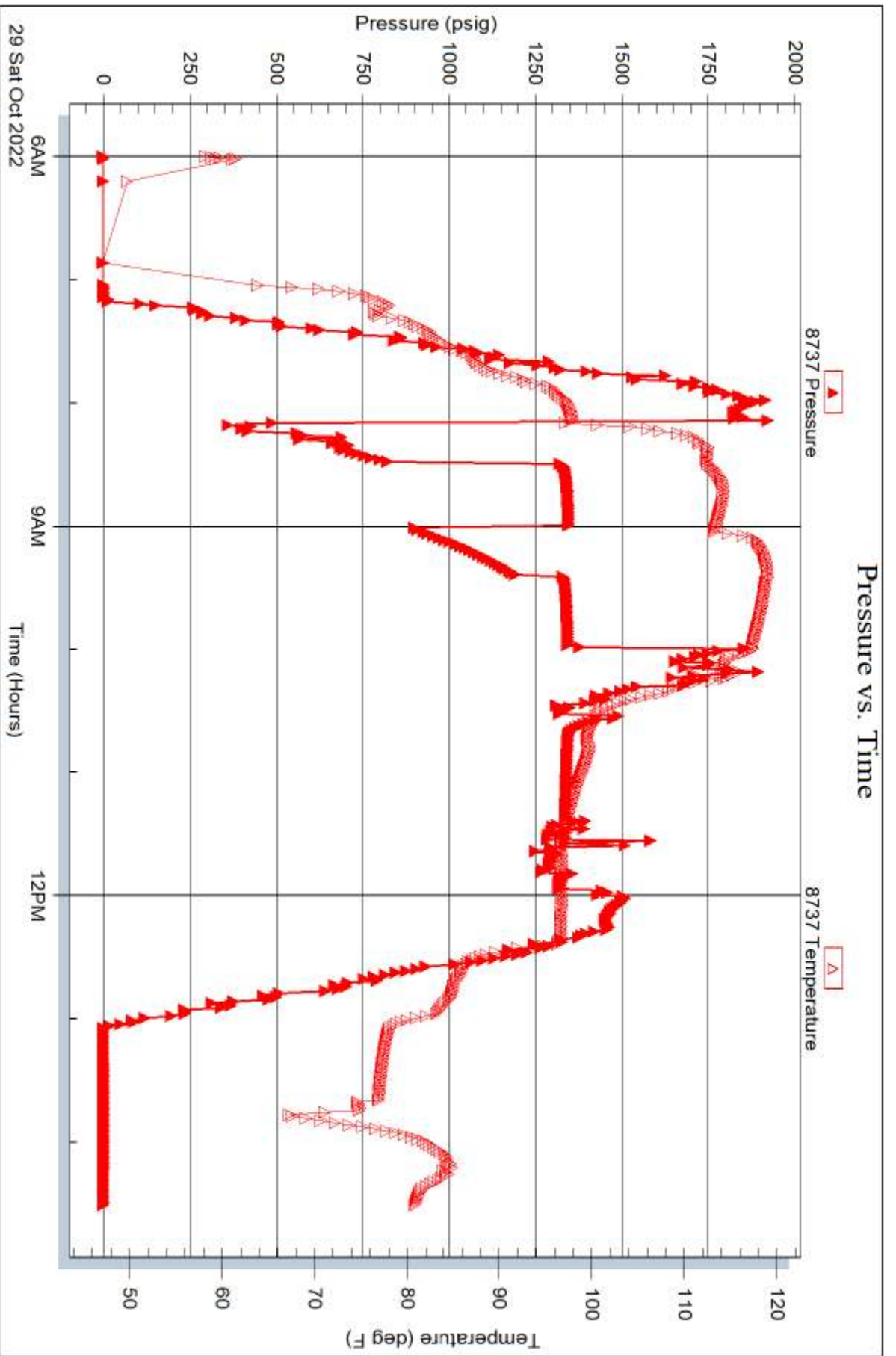
Stratakan Exploration, LLC

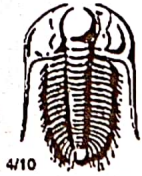
Bedford #21-1

DST Test Number: 5

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68689

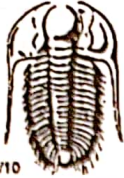
Well Name & No. Bedford #21-1 Test No. 1 Date 10/24/22
 Company Stratakan Exploration, LLC Elevation 1872 KB 1864 GL
 Address 100 S. Main St. Plainville, KS, 67663
 Co. Rep / Geo. Jason Alm Rig Discovery 2
 Location: Sec. 21 Twp 23s Rge. 12w Co. Stafford State KS

Interval Tested 3410 - 3465 Zone Tested LKC B-D
 Anchor Length 55' Drill Pipe Run 3382 Mud Wt. 8.7
 Top Packer Depth 3405 Drill Collars Run 30 Vls 48
 Bottom Packer Depth 3410 Wt. Pipe Run 2 WL 9.6
 Total Depth 3465 Chlorides 7000 ppm System LCM 1.5#
 Blow Description IF: Strong Blow. B.O.B. in 1 min. G.T.S. in 20 mins. Built to 482.81"
ISI: No Blow in Bucket.
FF: Strong Blow. B.O.B. + G.T.S., immediate. Built to 500.40"
FST: Weak Blow. Built to 172"

Rec	Feet of	%gas	%oil	%water	%mud
45	605cm	2		98	
63	6150cm	13	2	85	
61	600m	25	9	66	

Rec Total 169' Fluid BHT 97° Gravity N/A API RW N/A @ - °F Chlorides 7000 ppm
 Test 1800 T-On Location 2230
 Jars _____ T-Started 0045
 Safety Joint _____ T-Open 0323
 Circ Sub _____ T-Pulled 0600
 Hourly Standby _____ T-Out 0807
 Mileage (50) PRATT Shop ⁹⁸ Comments Slid 5'
 Sampler _____
 Straddle _____ EM Tool -175
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total -175
 Accessibility _____ Total 1723
 Sub Total 1898 MP/DST Disc't _____

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68690**

Well Name & No. Bedford 21-1 Test No. 2 Date 10/26/22
 Company Stratakan Exploration, LLC Elevation 1872 KB 1864 GL
 Address 100 S. main st. Plainville, KS, 67663
 Co. Rep / Geo. Jason Alm Rig Discovery 2
 Location: Sec. 21 Twp 23S Rge. 12W Co. STAFFORD State KS

Interval Tested 3555 - 3586 Zone Tested LKC I-J
 Anchor Length 31 Drill Pipe Run 3508 Mud Wt. 8.9
 Top Packer Depth 3550 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 3555 Wt. Pipe Run 2 WL 1080
 Total Depth 3586 Chlorides 8000 ppm System LCM 3#

Blow Description FF: Strong Blow, B.O.B. in 30 secs. Built to 739.30" G.T.S. in 25 mins.
ISS: No Blow.

FF: Strong Blow, B.O.B. & G.T.S., immediate. Built to 288.44" @ 3/8" choke,

FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>CVSACM</u>	<u>5</u>	<u>1</u>	<u>94</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60' Fluid BHT 99° Gravity N/A API RW N/A @ — °F Chlorides 8000 ppm

(A) Initial Hydrostatic	<u>1673</u>
(B) First Initial Flow	<u>45</u>
(C) First Final Flow	<u>55</u>
(D) Initial Shut-In	<u>987</u>
(E) Second Initial Flow	<u>62</u>
(F) Second Final Flow	<u>38</u>
(G) Final Shut-In	<u>981</u>
(H) Final Hydrostatic	<u>1656</u>

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

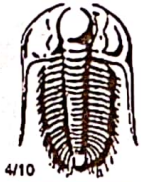
- Test 1800
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage (56) Shop (64) Hours
98
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1898

T-On Location 2005
 T-Started 2040
 T-Open 2252
 T-Pulled 0200
 T-Out 0359

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1898

Approved By _____ Our Representative M. Patrick Smith MP/DST Disc't _____

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. **68691**

Well Name & No. Bedford 21-1 Test No. 3 Date 10/27/22
 Company Stratakan Exploration Elevation 1872 KB 1804 GL
 Address 100 S. Main St. Plamville, KS. 67663
 Co. Rep / Geo. Jason Alm Rig Discovery 2
 Location: Sec. 21 Twp 23S Rge. 12W Co. Stafford State KS.

Interval Tested 3690 - 3775 Zone Tested Udola
 Anchor Length 85' Drill Pipe Run 3665 Mud Wt. 8.8
 Top Packer Depth 3685 Drill Collars Run 30 Vls 46
 Bottom Packer Depth 3690 Wt. Pipe Run 2 WL 10.80
 Total Depth 3775 Chlorides 8000 ppm System LCM 1"

Blow Description IF! Strong Blow! B.O.B. in 21 mins. Built to 22.22"
FSI! No Blow!
FP! Strong Blow! B.O.B. in 22 mins. Built to 20.85"
FSI! NO Blow!

Rec	Feet of	%gas	%oil	%water	%mud
383	GIP	100			
121	GVSOWCM	5	2	1	92
126	GOSWCM	10		5	85
63	GWCM	1		44	55
61	GMCW	5		60	35

Rec Total 371' Fluid BHT 99° Gravity N/A API RW 0.35 @ 50° F Chlorides 48000 ppm
 (A) Initial Hydrostatic 1802 Test 1800 T-On Location 1715
 (B) First Initial Flow 57 Jars _____ T-Started 2015
 (C) First Final Flow 117 Safety Joint _____ T-Open 2305
 (D) Initial Shut-In 1215 Circ Sub _____ T-Pulled 0235
 (E) Second Initial Flow 127 Hourly Standby _____ T-Out 0449
 (F) Second Final Flow 195 Mileage (50) Sleep (64) House Comments _____
 (G) Final Shut-In 1215 Sampler 98 _____
 (H) Final Hydrostatic 1772 Straddle _____ EM Tool -175
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 1898
 Sub Total 1723
 MP/DST Disc't _____

Approved By _____ Our Representative Matthew J. Small

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68692**

Well Name & No. Bedford 21-1 Test No. 4 Date 10/28/22
 Company Stratagan Exploration, LLC Elevation 1872 KB 1864 GL
 Address 100 S. Main St. Plainville, Ks. 67663
 Co. Rep / Geo. Jason Alm Rig Discovery 2
 Location: Sec. 21 Twp 23S Rge. 12W Co. STAFFORD State KS

Interval Tested 3760 - 3830 Zone Tested Simpson Sand
 Anchor Length 70 Drill Pipe Run 3729 Mud Wt. 8.8
 Top Packer Depth 3755 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3760 Wt. Pipe Run 2 WL 16.4
 Total Depth 3830 Chlorides 10000 ppm System LCM 1.5#

Blow Description IF: Fair Blow. Built to 7.85"
ISI: No Blow.
FF: Fair - Strong Blow. Built to 10.40"
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>199</u>	<u>GIP</u>	<u>100</u>			
<u>53</u>	<u>GUSOCM</u>	<u>2</u>	<u>1</u>		<u>97</u>
<u>63</u>	<u>GUSOCM</u>	<u>10</u>	<u>5</u>		<u>85</u>
<u>61</u>	<u>GOWCM</u>	<u>15</u>	<u>7</u>	<u>5</u>	<u>73</u>
<u>#</u>					

Rec Total 177' Fluid BHT 100° Gravity N/A API RW N/A @ — °F Chlorides 10,000 ppm
 (A) Initial Hydrostatic 1889 Test 1800 T-On Location 1309
 (B) First Initial Flow 64 Jars Added For this Test.³⁰⁰ T-Started 1340
 (C) First Final Flow 77 Safety Joint _____ T-Open 1548
 (D) Initial Shut-In 1079 Circ Sub _____ T-Pulled 1930
 (E) Second Initial Flow 101 Hourly Standby _____ T-Out 2158
 (F) Second Final Flow 112 Mileage 56-Shop/64-Home Comments * Added Jars *
 (G) Final Shut-In 1074 Sampler 98 _____
 (H) Final Hydrostatic 1829 Straddle _____ EM Tool -350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total -350
 Accessibility _____ Total 1848
 Sub Total 2198 MP/DST Disc't _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 60

Approved By _____ Our Representative Matthew J. Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68693**

Well Name & No. Bedford 21-1 Test No. 5 Date 10/29/22
 Company Stratakan Exploration, LLC Elevation 1872 KB 1864 GL
 Address 100 S. Main St. Planville, Ks. 67663
 Co. Rep / Geo. Jason Alm Rig Discovery 2
 Location: Sec. 21 Twp 23s Rge. 12W Co. Stafford State Ks

Interval Tested 3762 - 3858 Zone Tested Arbuckle
 Anchor Length 96' Drill Pipe Run 3729 Mud Wt. 8.8
 Top Packer Depth 3757 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3762 Wt. Pipe Run 2 WL 16.4
 Total Depth 3858 Chlorides 10,000 ppm System LCM 1.5*

Blow Description IF: Strong Blow. B.O.B. in 1min. Built to 243.18"
ISI: Weak Blow. Built to .85"
FF: Strong Blow. B.O.B. in 45 secs. Built to 424.67"
FSE: Weak Blow. Built to 1.77, Reducing.

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>GIP</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>2793</u>	<u>GCO</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>63</u>	<u>GOMCW</u>	<u>23</u>	<u>30</u>	<u>37</u>	<u>10</u>
<u>61</u>	<u>GOMCW</u>	<u>2</u>	<u>13</u>	<u>60</u>	<u>25</u>

Rec Total 2917' Fluid BHT 116° Gravity N/A API RW .25 @ 67 °F Chlorides 30,000 ppm

- (A) Initial Hydrostatic 1827
- (B) First Initial Flow 394
- (C) First Final Flow 828
- (D) Initial Shut-In 1247
- (E) Second Initial Flow 910
- (F) Second Final Flow 1193
- (G) Final Shut-In 1345
- (H) Final Hydrostatic 1765

- Test 1800
- Jars 300
- Safety Joint
- Circ Sub 50
- Hourly Standby
- Mileage 56-Shop / 64-Home
- Sampler 98
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2248

- T-On Location stay on loc.
- T-Started
- T-Open
- T-Pulled
- T-Out
- Comments *Dropped BAR*
- EM Tool -350
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total -350
- Total 1898

Initial Open 20
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

Approved By _____ Our Representative [Signature]

Triobite 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

Drilling Time and Sample Log

Operator StrataKan Exploration, LLC.		Elevation 1872'	
Lease Bedford	No. 21-1	KB DF	GL
API # 15-065-24122-0000		Casing Record	
Field Bedford		Production 5 1/2" @ 3931'	
Location 482' FSL & 1078' FWL			
Sec. 21	Twp. 23s	Rgc. 12w	Electrical Surveys CNL/CDL, DIL MEL, BHCS
County Stafford	State Kansas		
Formation	Sample tops	Log Tops	Datum Struct Comp
Anhydrite	679'		+1193 +1188 +5
Base	699'		+1173
Heebner	3230'	3230'	-1358 -1363 +5
Toronto	3249'	3248'	-1376 -1383 +7
Douglas	3265'	3266'	-1394 -1401 +7
Brown Lime	3269'	3270'	-1498 -1504 +6
Lansing	3396'	3396'	-1524 -1530 +6
Muncie Creek	3527'	3526'	-1654 -1664 +10
BKC	3644'	3644'	-1772 -1783 +11
Viola	3716'	3720'	-1848 -1857 +11
Simpson	3770'	3771'	-1899 -1908 +9
Arbuckle	3849'	3843'	-1971 -1978 +7
Total Depth	3934'	3932'	-2060
Reference Well For Structural Comparison Gas Marketing Bayne #1 150' NE SW SE SW Sec. 21 T23s R12w Stafford Co. Kansas			

Drilling Contractor	Discovery Drilling Co., Inc. Rig #2
Commenced	10-21-2022
Completed	10-30-2022
Samples Saved From	3000' To RTD
Drilling Time Kept From	2900' To RTD
Samples Examined From	3000' To RTD
Geological Supervision From	2800' To RTD
Displacement	2936'
Mud Type	Chemical

Summary and Recommendations

The location for the Bedford #21-1 was found via 3-D seismic. The new well ran structurally as expected via the survey. Five Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Arbuckle Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Bedford #21-1 well.

Recommended Perforations
Primary:
 Arbuckle Lower 3855' - 3857'
 Arbuckle Upper 3843' - 3848'
Secondary:
 Simpson Sand 3809' - 3814'
 Viola 3730' - 3770'
 LKC J 3568' - 3574'
 LKC C 3438' - 3441'
Before Abandonment:
 LKC K 3592' - 3600'
 LKC F 3468' - 3472'

Respectfully Submitted,

 Jason T Alm
 Hard Rock Consulting, Inc.

ROCK TYPES

- Carbon Sh shale, red
- shale, grn
- shale, gry
- Dolorm Lmsst w/?
- Chert varl
- Chertool

ACCESSORIES

- Chert varl
- Chertool

STRINGER

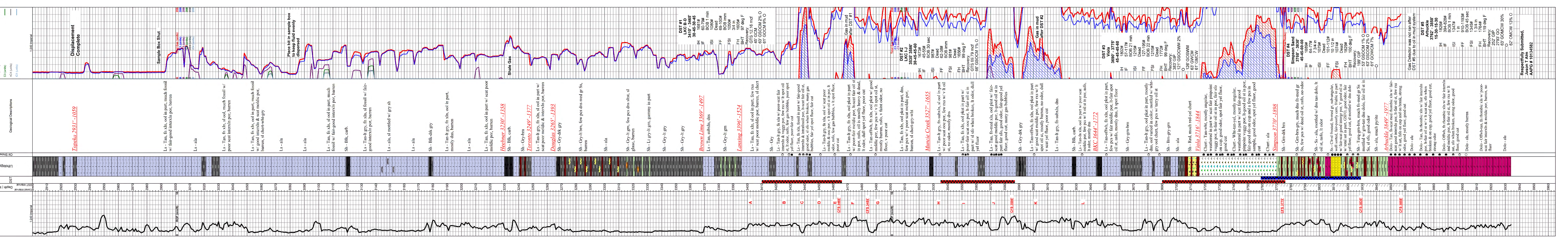
- Dolomite
- Sandstone
- Siltstone
- Shale
- green shale

INTERVALS

- Core
- DST
- Depth Interval
- Core Interval

OIL SHOWS

- Even Sin 50 - 75 %
- Spot Sin 25 - 50 %
- Spotted Sin 1 - 25 %
- Questionable Sin
- Dead Oil Sin
- Fluorescence



Geological Report

Bedford #21-1

482' FSL & 1078' FWL

Sec. 21 T23s R12w

Stafford County, Kansas



StrataKan Exploration, LLC.

General Data

Well Data: StrataKan Exploration, LLC.
Bedford #21-1
482' FSL & 1078' FWL
Sec. 21 T23s R12w
Stafford County, Kansas
API # 15-185-24122-0000

Drilling Contractor: Discovery Drilling Co., Inc. Rig #2

Geologist: Jason T Alm

Spud Date: October 21, 2022

Completion Date: October 30, 2022

Elevation: 1864' Ground Level
1872' Kelly Bushing

Directions: St. John KS, North on Hwy 281 3 mi to 70 Rd.
East 6 mi to 60 Ave. South 2 mi to 50 Rd. West ¾
mi. North into location.

Casing: 734' 8 5/8" surface casing
3931' 5 1/2" production casing

Samples: 10' wet and dry, 3000' to RTD

Drilling Time: 2900' to RTD

Electric Logs: Midwest Wireline "Tim Martin"
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: Five, Trilobite Testing "Matt Smith"

Problems: None

Remarks: Gas Detector was not ran after DST #5 due to oil in
mud system.

Formation Tops

Formation	StrataKan Exploration Bedford #21-1 Sec. 21 T23s R12w 482' FSL & 1078' FWL
Anhydrite	679' +1193
Base	699' +1173
Heebner	3260' -1358
Toronto	3248' -1376
Douglas	3266' -1394
Brown Lime	3370' -1498
Lansing	3396' -1524
Muncie Creek	3526' -1654
BKC	3644' -1772
Viola	3720' -1848
Simpson	3771' -1899
Arbuckle	3843' -1971
LTD	3932' -2060
RTD	3934' -2062

Sample Zone Descriptions

- LKC B zone (3418' -1546): Covered in DST #1**
 Ls – Fine crystalline w/ poor to scattered fair inter-crystalline and vugular porosity, few rocks with light spotted oil stain, light odor, no show of free oil, few gas bubbles, poor spotted yellow fluorescents, poor to fair cut, 30 unit gas kick.
- LKC C zone (3438' -1566): Covered in DST #1**
 Ls – Fine crystalline, fossiliferous in part w/ fair to good inter-crystalline and intra-fossil porosity, light to scattered fair oil stain, good odor, slight show of free oil when broken, many gas bubbles, fair yellow spotted fluorescents, fair cut, 200+ unit gas kick.
- LKC F zone (3468' -1596): Not Tested**
 Ls – Fine crystalline, oolitic packstone with good moldic porosity, few pieces with very light spotted oil stain, mostly barren, no show of free oil, oil is mostly heavy and dead, light odor, dull spotted yellow fluorescents, poor cut.

- LKC I zone** (3546' -1674): **Covered in DST #2**
Ls – Fine crystalline, oolitic packstone in part with poor to fair scattered oolitic porosity, light to fair oil stain in part w/ slight show of free oil when broken, light odor, dull yellow fluorescents.
- LKC J zone** (3562' -1690): **Covered in DST #2**
Ls – Fine to medium crystalline, oolitic packstone with fair to scattered good moldic porosity, light to good oil stain in part, fair show of free oil, good odor, fair to good yellow fluorescents, good cut, many gas bubbles, 150+ unit gas kick.
- LKC K zone** (3592' -1720): **Not Tested**
Ls – Fine crystalline, oolitic packstone with fair to scattered good moldic porosity, few rocks with light spotted oil stain, mostly barren, no odor, dull very scattered yellow fluorescents, poor cut.
- Viola** (3720' -1848): **Covered in DST #3**
Chert – Mostly angular, weathered in part with scattered fair to good pinpoint vugular porosity, light to good oil stain in porosity, fair to good show of free oil on cup and a few pieces in sample, good odor, spotted yellow fluorescents, good cut, 40-140 unit gas kick.
- Simpson Sand** (3806' -1934): **Covered in DST #4**
Ss – Quartz, clear to slightly frosted, fine to medium grained, sub-angular, well sorted, fair to poorly cemented, friable in part with fair to scattered good inter-granular porosity, very good oil stain with total saturation in part, good show of free oil, good odor, fair yellow fluorescents, good cut, slightly mottled with dolomite in part, 60+ unit gas kick.
- Arbuckle** (3843' -1971): **Covered in DST #5**
Dolo – Fine to scattered medium rhombic crystalline with fair to scattered good inter-crystalline porosity, light to fair oil stain, few rocks with light saturation, fair show of free oil on cup and on break, strong odor, good yellow fluorescents, good cut, 50+ unit gas kick.

Drill Stem Tests

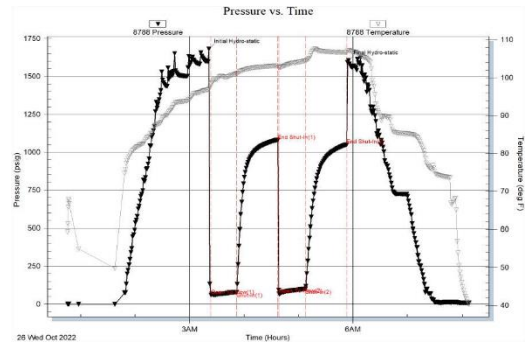
Trilobite Testing, Inc.
"Matt Smith"

DST #1 LKC B-D zones

Interval (3410' – 3465') Anchor Length 55'

IHP	– 1681 #	
IFP	– 30" – BOB 1 min.	60-79 #
ISI	– 45" – Dead	1080 #
FFP	– 30" – BOB imm	69-100 #
FSI	– 45" – Built to ¾ in.	1050 #
FHP	– 1605 #	
BHT	– 97°F	

Recovery: GTS Gauge 12.16 mcf
 45' GCM
 63' GSOCM 2% Oil
 61' GOCM 9% Oil

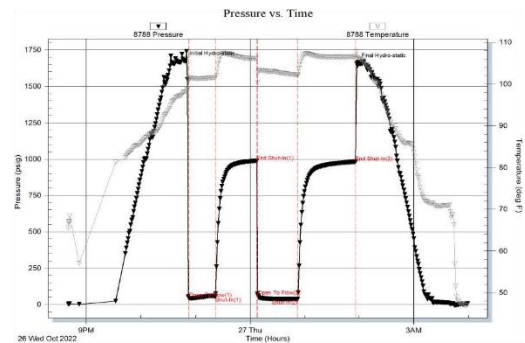


DST #2 LKC I-J zones

Interval (3535' – 3586') Anchor Length 51'

IHP	– 1673 #	
IFP	– 30" – BOB 30 sec	45-55 #
ISI	– 45" – Dead	987 #
FFP	– 45" – BOB imm	62-38 #
FSI	– 60" – Dead	981 #
FHP	– 1656 #	
BHT	– 99°F	

Recovery: GTS Gauge 69.79 mcf
 66' GSOCM 1% Oil

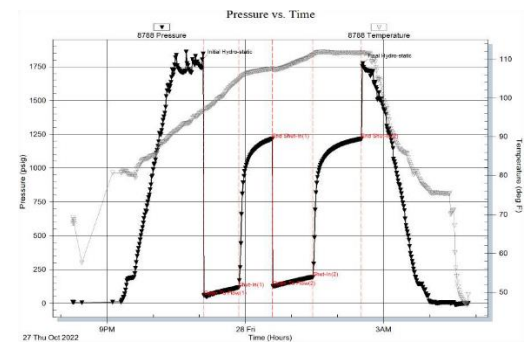


DST #3 Viola

Interval (3690' – 3775') Anchor Length 85'

IHP	– 1802 #	
IFP	– 45" – BOB 21 min.	57-117 #
ISI	– 45" – Dead	1215 #
FFP	– 45" – BOB 22 min.	127-195 #
FSI	– 60" – Dead	1215 #
FHP	– 1772 #	
BHT	– 99°F	

Recovery: 383' GIP
 121' GSOCWM 2% Oil, 1% Water
 126' GOSWCM 5% Water
 63' GWCM 44% Water
 61' MGCW 60% Water

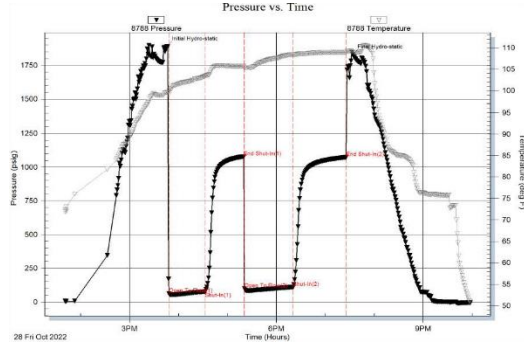


DST #4 Simpson Sand

Interval (3760' – 3830') Anchor Length 70'

- IHP – 1889 #
- IFP – 45" – Built to 7 ¾ in. 64-77 #
- ISI – 45" – Dead 1079 #
- FFP – 45" – Built to 10 ½ in. 101-112 #
- FSI – 60" – Dead 1074 #
- FHP – 1829 #
- BHT – 99°F

Recovery: 199' GIP
 53' GSOCM 1% Oil
 63' GSOCM 2% Oil
 61' GOWCM 7% Oil, 5% Water

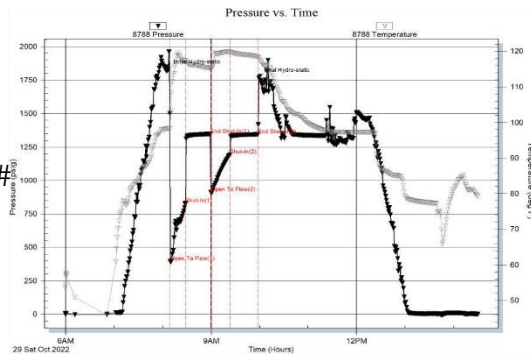


DST #5 Arbuckle

Interval (3762' – 3858') Anchor Length 96'

- IHP – 1826 #
- IFP – 15" – BOB 1 min. 394-828 #
- ISI – 30" – Built to 1 in. 1347 #
- FFP – 15" – BOB 45 sec. 910-1193 #
- FSI – 30" – Built to 1 ¾ in. 1345 #
- FHP – 1764 #
- BHT – 119°F

Recovery: 252' GIP
 2793' GO
 63' GOMCW 30% Oil, 37% Water
 62' OMCW 13% Oil, 60% Water



Structural Comparison

Formation	StrataKan Exploration	Gas Marketing	Shell
	Bedford #21-1 Sec. 21 T23s R12w 482' FSL & 1078' FWL	Bayne #1 Sec. 21 T23s R12w 150' NE SW SE SW	A. Bean #2 Sec. 21 T23s R12w 991' FSL & 1645' FWL
Anhydrite	679' +1193	1188	NA
Base	699' +1173	NA	NA
Heebner	3260' -1358	-1363	NA
Toronto	3248' -1376	-1383	NA
Douglas	3266' -1394	-1401	NA
Brown Lime	3370' -1498	-1504	NA
Lansing	3396' -1524	-1530	-1540
Muncie Creek	3526' -1654	-1664	NA
BKC	3644' -1772	-1783	NA
Viola	3720' -1848	-1857	NA
Simpson	3771' -1899	-1908	NA
Arbuckle	3843' -1971	-1978	NA

Summary

The location for the Bedford #21-1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Five Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Arbuckle Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Bedford #21-1 well.

Recommended Perforations

Primary:

Arbuckle lower	3855' – 3857'	DST #5
Arbuckle upper	3843' – 3848'	DST #5

Secondary:

Simpson Sand	3809' – 3814'	DST #4
Viola	3730' – 3770'	DST #3
LKC J	3568' – 3574'	DST #2
LKC C	3438' – 3441'	DST #1

Before Abandonment:

LKC K	3592' – 3600'	Not Tested
LKC F	3468' – 3472'	Not Tested

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Susan K. Duffy, Chair
Dwight D. Keen, Commissioner
Andrew J. French, Commissioner

Laura Kelly, Governor

February 28, 2023

Justin Prater
StrataKan Exploration, LLC
100 S MAIN ST
PLAINVILLE, KS 67663-2234

Re: ACO-1
API 15-185-24122-00-00
BEDFORD 21-1
SW/4 Sec.21-23S-12W
Stafford County, Kansas

Dear Justin Prater:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/21/2022 and the ACO-1 was received on February 27, 2023 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

QUALITY OILWELL CEMENTING, INC.

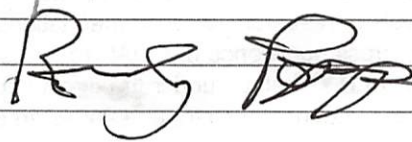
Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 3190

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-30-22	21	23	12	Stafford	Ks		10:00 pm
Lease Bedford				Location St. John - 2N to 50th St, S 1/4 E		Well No. 21-1	
Contractor Discovery #2				Owner N Kinto		To Quality Oilwell Cementing, Inc.	
Type Job Longstring				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 7 7/8"		T.D. 3934'		Charge To Stratakan Exploration			
Csg. 5 1/2" 15.50 #		Depth 3927'		Street			
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. 42.62'		Shoe Joint 42.62'		Cement Amount Ordered 270 @ Pro C 10% Salt 5%			
Meas Line		Displace 92 1/2 BLS		Gilsonite - 500 gal mud Clear - 112 1/2 BLS KCL			
EQUIPMENT				Common 270 @ Pro-C			
Pumptrk 16 No.		Cementer Helper David		Poz. Mix			
Bulktrk 14 No.		Driver Ross		Gel.			
Bulktrk P.U. No.		Driver Rick		Calcium			
JOB SERVICES & REMARKS				Hulls KCL 12 gal			
Remarks: Marker joint after #20				Salt 19			
Rat Hole 30 SX				Flowseal			
Mouse Hole 20 SX				Kol-Seal 1250 #			
Centralizers 1-4, 20, 21, 22, 23				Mud CLR 48 500 #			
Baskets pipe on bottom break Circulation				SFL-117 or CD110 CAF 38			
D/V or Port Collar Pump 500 gal mud Clear 48				Sand			
pump 20 BLS KCL water. Plug Rat + mousehole's. Cement 5 1/2" Casing with 220 SX Cement. Shut down wash				Handling 301			
pump + lines Displaced plug w/ 92 1/2 BLS of KCL water. Released + held. Lift pressure 800 #. Land plug to 1500 #.				Mileage			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer 8			
				Baskets			
				AFU Inserts			
				Float Shoe 1			
				Latch Down 1			
				Pumptrk Charge Prod String			
				Mileage 28			
X Signature 				Tax			
				Discount			
				Total Charge			

Thanks

GENERAL TERMS AND CONDITIONS

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- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3190

Date	10-30-22	Sec.	21	Twp.	23	Range	12	County	Stafford	State	Ks	On Location		Finish	10:00 pm
Lease								Location		St. John - 2N + 50 + S1, S14 E					
Well No.								21-1-1		Owner					
Contractor								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job								Casing							
Hole Size								T.D.		3934'					
Csg.								Depth		3927'					
Tbg. Size								Depth		City					
Tool								Depth		State					
Cement Left in Csg.								Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line								Displace		Cement Amount Ordered					
EQUIPMENT								Common							
Pumptrk								No.		Cement					
Bulktrk								No.		Helper					
Bulktrk								No.		Driver					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Handling								Mileage							
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer								8							
Baskets															
AFU Inserts															
Float Shoe								1							
Latch Down								1							
Pumptrk Charge															
Mileage															
Tax															
Discount															
Total Charge															
X Signature															

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

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– TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 3266

Date	10-22-22	Sec.	21	Twp.	23	Range	2	County	STAFFORD	State	KS	On Location		Finish	6:30 PM
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Location OT Board 22 St to 50 St. S/E

Lease	Bedford	Well No.	21-1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery	Type Job	SURFACE	Charge To	Strata-Raw Exploration
Hole Size	12 1/4	T.D.	735	Street	
Csg.	8 5/8	Depth	734	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	4804 80/20 3-2
Cement Left in Csg.	30	Shoe Joint			
Meas Line		Displace	44.8		

EQUIPMENT

Pumptrk	16	No.	Cementer Helper	Bill	Common	368
Bulktrk		No.	Driver	JORDAN	Poz. Mix	92
Bulktrk	19	No.	Driver	CORY BRYANT	Gel.	
			Driver		Calcium	16

JOB SERVICES & REMARKS

Remarks:	Salt
Rat Hole	Flowseal 250 #
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
set @ 734	Handling 485
Cemt w/ 480 sk	Mileage
pump plug w/ 44.3	
Cemt did CIRE	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Rubber 8 5/8 - 1	
Plug	
Pumptrk Charge	Long Surface
Mileage	28

Signature	Thanks	Tax
		Discount
		Total Charge

GENERAL TERMS AND CONDITIONS

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