

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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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DRILL STEM TEST REPORT

Prepared For: **Bitter Spar LLC**

2250 N Rock Road
Wichita KS 67226

ATTN: Tom Pronold

Pfeifer #33-1

33-9s-25w Graham,KS

Start Date: 2021.07.27 @ 21:20:00

End Date: 2021.07.28 @ 05:48:15

Job Ticket #: 67037 DST #: 2

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

Printed: 2021.07.29 @ 09:55:50

Bitter Spar LLC
33-9s-25w Graham,KS
Pfeifer #33-1
DST # 2
LKC 'H-J'
2021.07.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bitter Spar LLC

33-9s-25w Graham,KS

2250 N Rock Road
Wichita KS 67226

Pfeifer #33-1

Job Ticket: 67037

DST#: 2

ATTN: Tom Pronold

Test Start: 2021.07.27 @ 21:20:00

GENERAL INFORMATION:

Formation: **LKC 'H-J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:49:30

Time Test Ended: 05:48:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Polfus

Unit No: 71

Interval: 3975.00 ft (KB) To 4054.00 ft (KB) (TVD)

Reference Elevations: 2569.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

2564.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8646

Press@RunDepth: 50.75 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.27

End Date:

2021.07.28

Last Calib.:

2021.07.27

Start Time: 21:20:01

End Time:

05:48:15

Time On Btm:

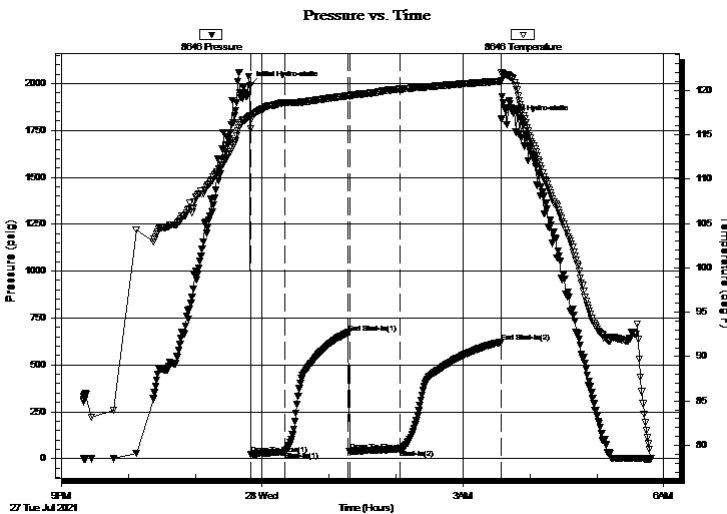
2021.07.27 @ 23:49:15

Time Off Btm:

2021.07.28 @ 03:34:30

TEST COMMENT: 30 IF- blow built to 1 1/2"
60 IS- no blow back
45 FF- blow built to 1"
90 FS- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.28	117.07	Initial Hydro-static
1	24.60	115.63	Open To Flow (1)
32	38.74	118.58	Shut-In(1)
88	671.69	119.38	End Shut-In(1)
89	40.16	119.26	Open To Flow (2)
135	50.75	120.11	Shut-In(2)
225	622.17	121.02	End Shut-In(2)
226	1809.94	122.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCO 85%M 15%O	0.31

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bitter Spar LLC

33-9s-25w Graham,KS

2250 N Rock Road
Wichita KS 67226

Pfeifer #33-1

Job Ticket: 67037

DST#: 2

ATTN: Tom Pronold

Test Start: 2021.07.27 @ 21:20:00

Tool Information

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.80 inches	Volume: 53.02 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	15000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	3975.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 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
Shut In Tool	5.00			3948.00	
Hydraulic tool	5.00			3953.00	
Jars	5.00			3958.00	
EM tool	4.00			3962.00	
Safety Joint	3.00			3965.00	
Packer	5.00			3970.00	32.00 Bottom Of Top Packer
Packer	5.00			3975.00	
Stubb	1.00			3976.00	
Recorder	0.00	8353	Inside	3976.00	
Recorder	0.00	8366	Outside	3976.00	
Perforations	10.00			3986.00	
Blank Spacing	65.00			4051.00	
Bullnose	3.00			4054.00	79.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bitter Spar LLC

33-9s-25w Graham,KS

2250 N Rock Road
Wichita KS 67226

Pfeifer #33-1

Job Ticket: 67037

DST#: 2

ATTN: Tom Pronold

Test Start: 2021.07.27 @ 21:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	MCO 85%M 15%O	0.310

Total Length: 63.00 ft Total Volume: 0.310 bbl

Num Fluid Samples: 0

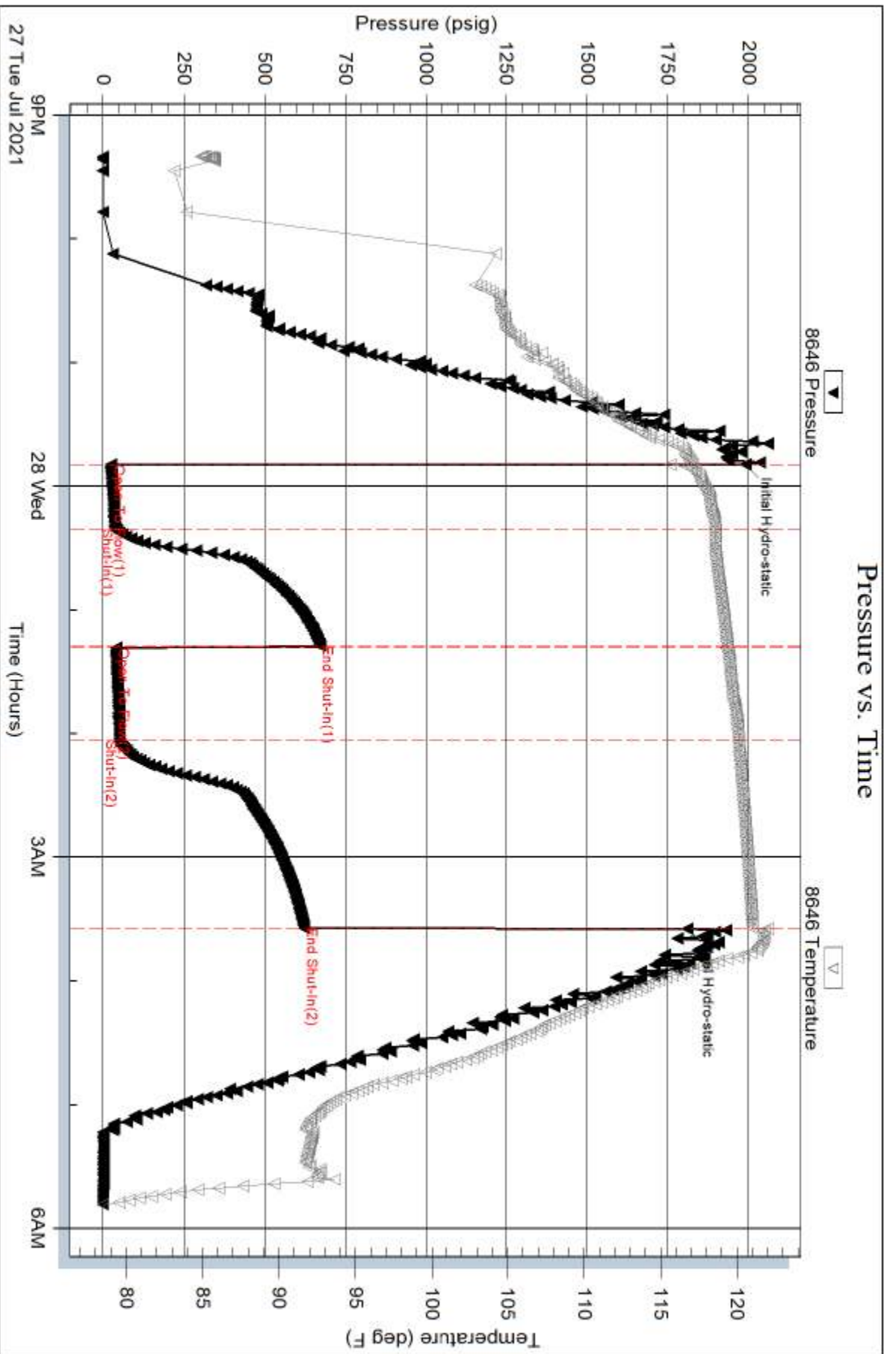
Num Gas Bombs: 0

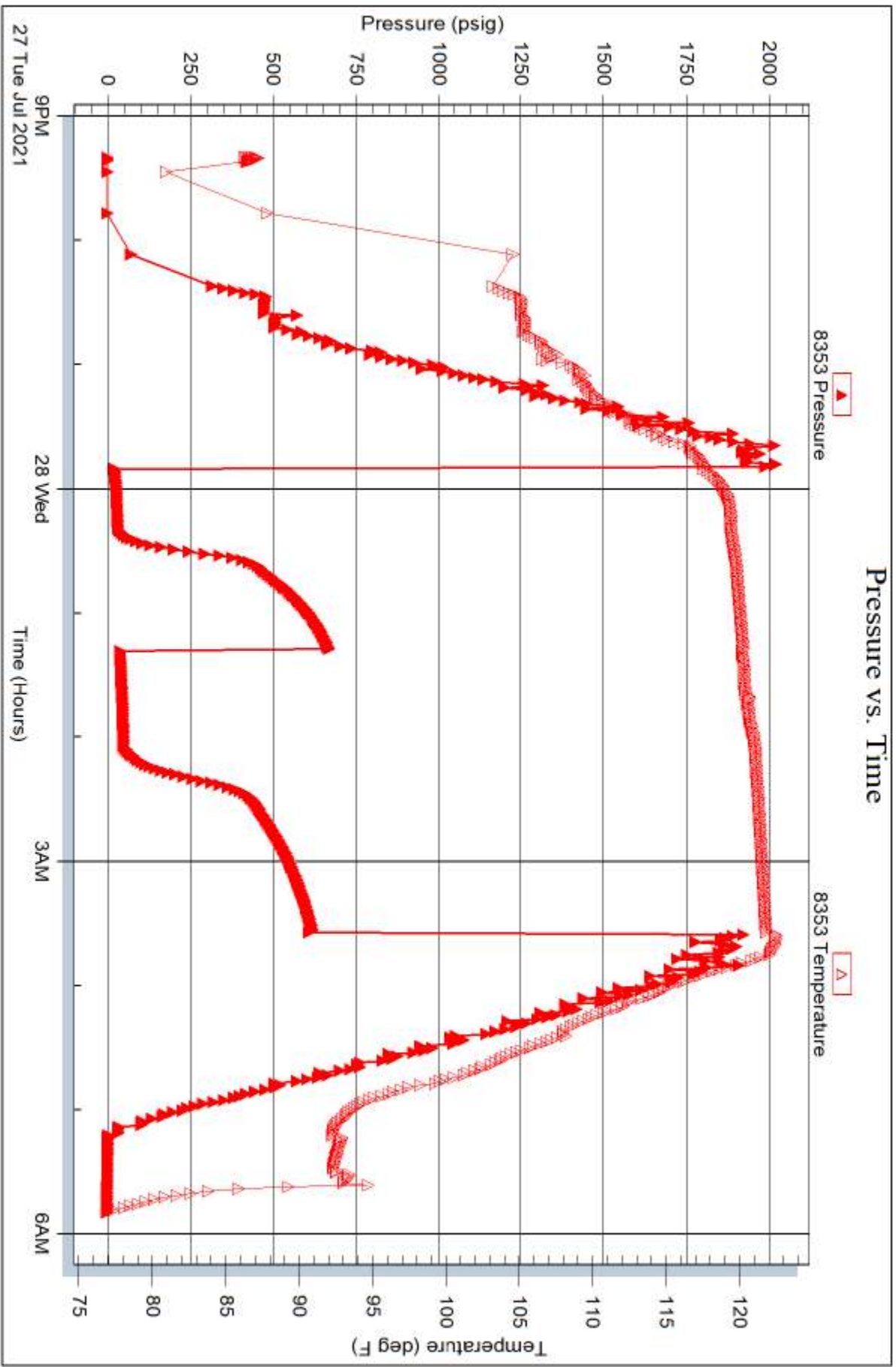
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Bitter Spar LLC**

2250 N Rock Road
Wichita KS 67226

ATTN: Tom Pronold

Pfeifer #33-1

33-9s-25w Graham,KS

Start Date: 2021.07.26 @ 16:46:00

End Date: 2021.07.26 @ 23:51:30

Job Ticket #: 67036 DST #: 1

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

Printed: 2021.07.29 @ 09:56:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bitter Spar LLC

33-9s-25w Graham,KS

2250 N Rock Road
Wichita KS 67226

Pfeifer #33-1

Job Ticket: 67036

DST#: 1

ATTN: Tom Pronold

Test Start: 2021.07.26 @ 16:46:00

GENERAL INFORMATION:

Formation: **LKC 'A'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:21:00

Time Test Ended: 23:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Polfus

Unit No: 71

Interval: 3845.00 ft (KB) To 3868.00 ft (KB) (TVD)

Reference Elevations: 2569.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

2564.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8646

Press@RunDepth: 64.34 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.26 End Date: 2021.07.26

Last Calib.: 1899.12.30

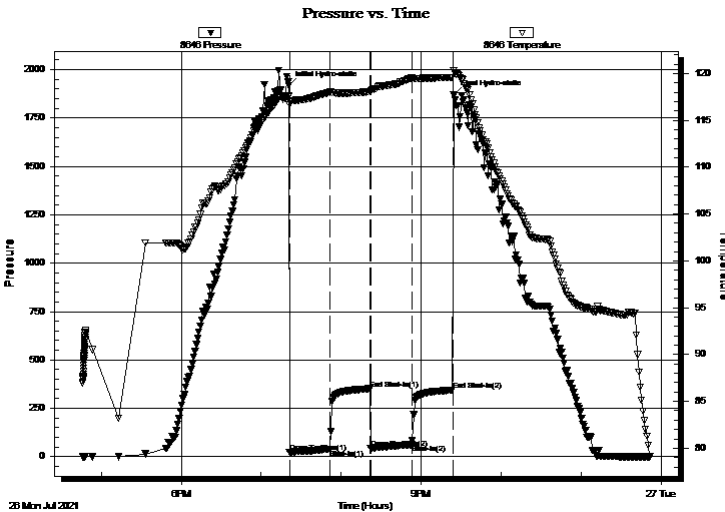
Start Time: 16:46:01 End Time: 23:51:30

Time On Btm: 2021.07.26 @ 19:20:45

Time Off Btm: 2021.07.26 @ 21:24:15

TEST COMMENT: 30 IF- blow built to 1 1/4"
30 IS- no blow back
30 FF- blow built to 3/4"
30 FS- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.51	117.59	Initial Hydro-static
1	22.15	116.66	Open To Flow (1)
31	40.94	118.03	Shut-In(1)
61	350.85	118.05	End Shut-In(1)
62	42.84	118.08	Open To Flow (2)
93	64.34	119.52	Shut-In(2)
123	344.14	119.57	End Shut-In(2)
124	1869.57	120.33	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bitter Spar LLC

33-9s-25w Graham,KS

2250 N Rock Road
Wichita KS 67226

Pfeifer #33-1

Job Ticket: 67036

DST#: 1

ATTN: Tom Pronold

Test Start: 2021.07.26 @ 16:46:00

Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	208.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	3845.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3818.00	
Hydraulic tool	5.00			3823.00	
Jars	5.00			3828.00	
EM tool	4.00			3832.00	
Safety Joint	3.00			3835.00	
Packer	5.00			3840.00	32.00 Bottom Of Top Packer
Packer	5.00			3845.00	
Stubb	1.00			3846.00	
Recorder	0.00	8353	Inside	3846.00	
Recorder	0.00	8366	Outside	3846.00	
Perforations	19.00			3865.00	
Bullnose	3.00			3868.00	23.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bitter Spar LLC

33-9s-25w Graham,KS

2250 N Rock Road
Wichita KS 67226

Pfeifer #33-1

Job Ticket: 67036

DST#: 1

ATTN: Tom Pronold

Test Start: 2021.07.26 @ 16:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

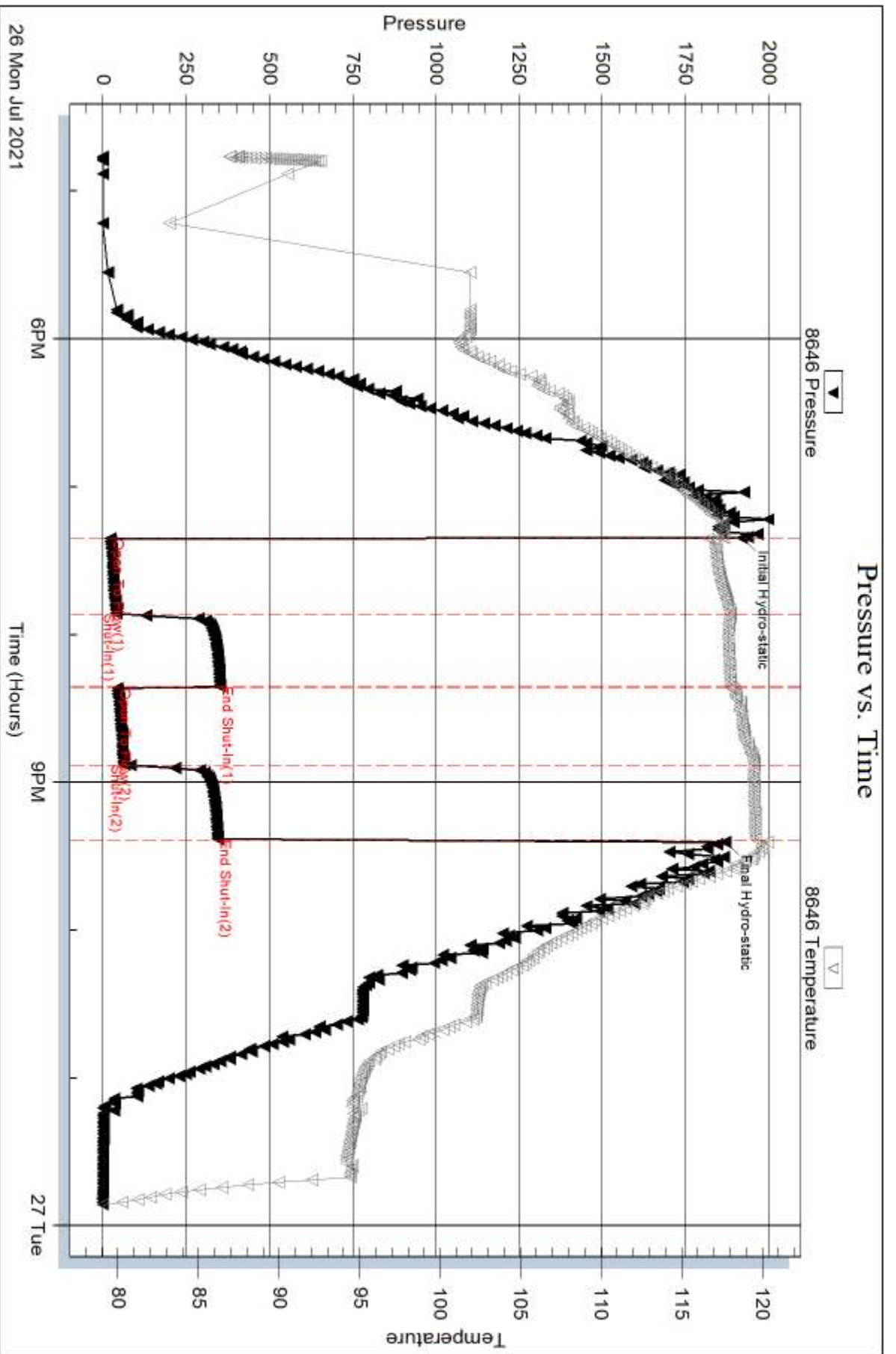
Num Gas Bombs: 0

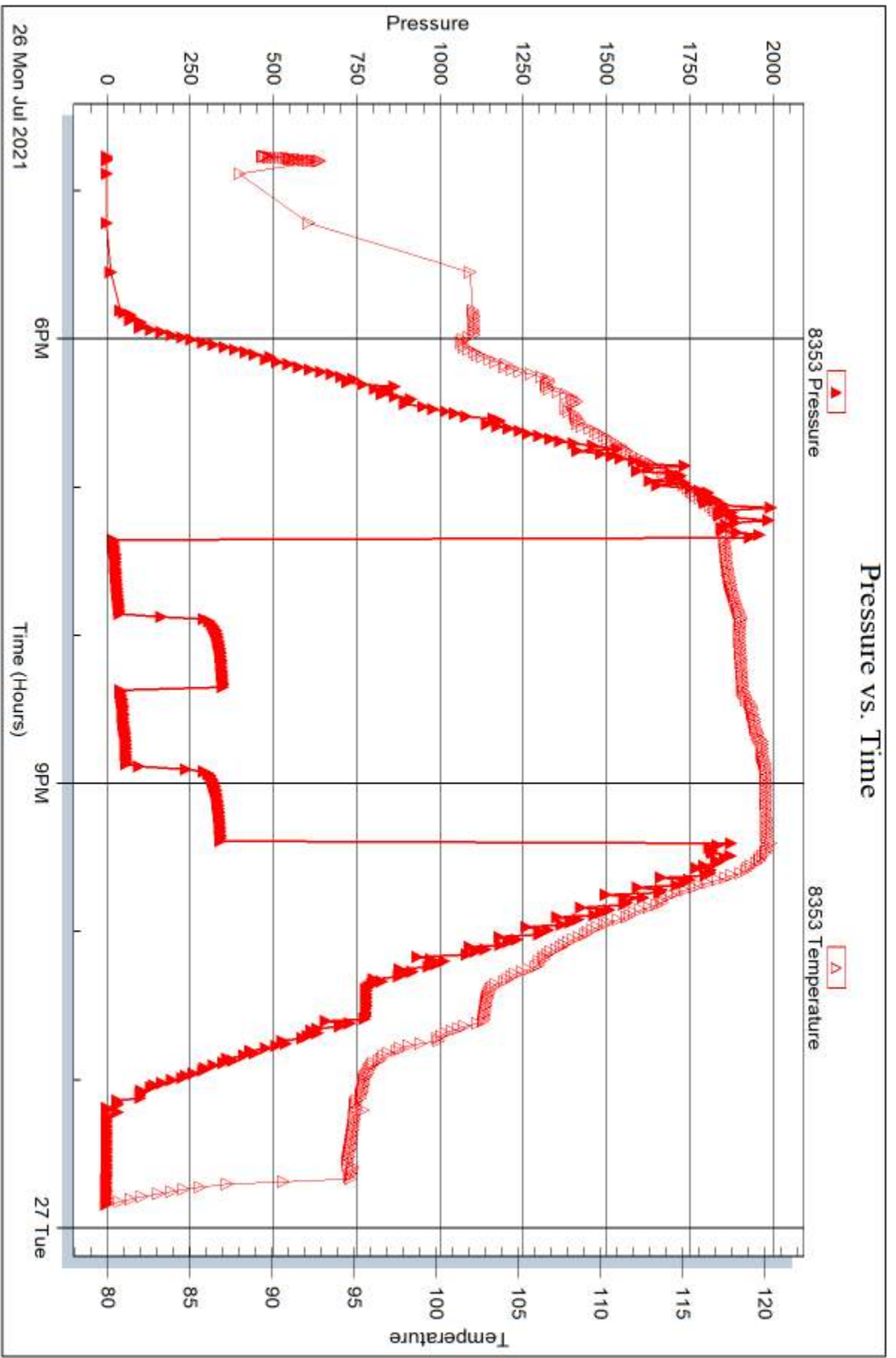
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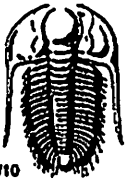
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67036

Well Name & No. Pfeifer #33-1 Test No. 1 Date 7-26-21
 Company Bitter Spore LLC Elevation 2569 KB 2564 GL
 Address 2250 W Rock Road Wichita KS, 67226
 Co. Rep / Geo. Tom Ronald Rig Murphy Rig #8
 Location: Sec. 33 Twp 9S Rge. 25W Co. Graham State KS

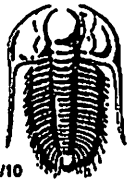
Interval Tested 3845 - 3868 Zone Tested LKC "A"
 Anchor Length 23' Drill Pipe Run 3836 Mud Wt. 8.9
 Top Packer Depth 3840 Drill Collars Run 185 Vis 60
 Bottom Packer Depth 3845 Wt. Pipe Run _____ WL 5.4
 Total Depth 3868 Chlorides 2500 ppm System LCM 3*
 Blow Description IF - Blow Built To 1/4"
ISI - No Blow Back
FF - Blow Built To 3/4"
FSI - No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>75'</u>	<u>MW</u>			<u>57</u>	<u>43</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 75' BHT 120° Gravity _____ API RW 1 @ 70.6° F Chlorides 6,000 ppm
 (A) Initial Hydrostatic 1920 Test 1200 T-On Location 2:40 pm
 (B) First Initial Flow 22 Jars 250 T-Started 4:46 pm
 (C) First Final Flow 40 Safety Joint 75 T-Open 7:21 pm
 (D) Initial Shut-In 351 Circ Sub _____ T-Pulled 9:23 pm
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 11:40 pm
 (F) Second Final Flow 64 Mileage 140 RT 126rt 157.50 Comments _____
 (G) Final Shut-In 344 Sampler _____
 (H) Final Hydrostatic 1870 Straddle _____ EM Tool 350 NS
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1682.50
 Sub Total 1682.50 MP/DST Disc't _____

Approved By Tom Ronald Our Representative Justin Palfus

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67037

Well Name & No. Pfeifer 33-1 Test No. 2 Date 7-27-21
 Company Bitter Spar LLC Elevation 2569 KB 2564 GL
 Address 2250 N. Rock Road Wichita KS 67226
 Co. Rep / Geo. TOM Prasad Rig Murfin #8
 Location: Sec. 33 Twp 9S Rge. 25W Co. Graham State KS

Interval Tested 3975-4054 Zone Tested LKC "H-J"
 Anchor Length 79' Drill Pipe Run 3780 Mud Wt. 9.1
 Top Packer Depth 3970 Drill Collars Run 185 Vls 60
 Bottom Packer Depth 3975 Wt. Pipe Run _____ WL 5.8
 Total Depth 4054 Chlorides 2900 ppm System LCM 4#
 Blow Description IF - Blow Built To 1 1/2"
ISI - NO Blow Back
FF - ~~Blow~~ Blow Built To 1"
FSI - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>MCO</u>	<u>15</u>		<u>85</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 63 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1990 Test 1300 T-On Location 7:45pm
 (B) First Initial Flow 25 Jars 250 T-Started 9:20pm
 (C) First Final Flow 39 Safety Joint 75 T-Open 11:49pm
 (D) Initial Shut-In 672 Circ Sub _____ T-Pulled 3:34am
 (E) Second Initial Flow 40 Hourly Standby _____ T-Out 5:45am
 (F) Second Final Flow 51 Mileage 140 RT X2 ³¹⁵ Comments loaded Tool @
 (G) Final Shut-In 622 Sampler _____ 12:30pm on 7-28-21
 (H) Final Hydrostatic 1810 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2290
 Sub Total 1940 MP/DST Disc't _____

Approved By _____ Our Representative Justin Polfus
 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**

DRILL STEM TEST REPORT

Bitter Spar LLC

2250 N Rock Road
Wichita KS, 67226

ATTN: Tom Pronold

Pfeifer 33-1

Job Ticket: 67037

DST#: 2

Test Start: 2021.07.27 @ 21:20:00

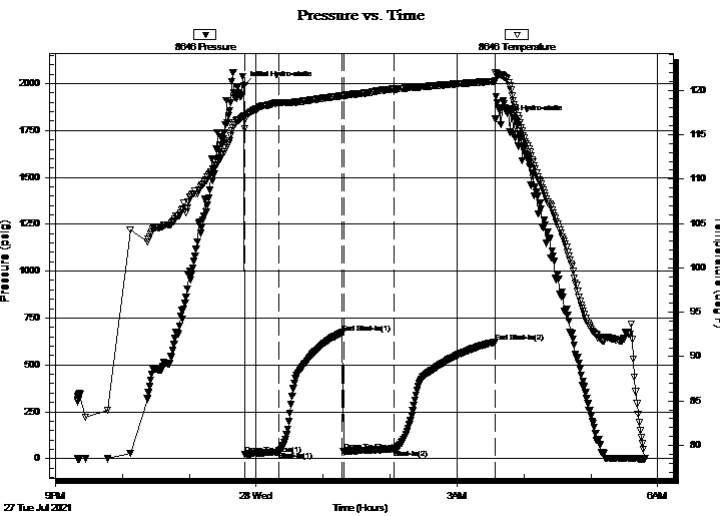
GENERAL INFORMATION:

Formation: **LKC 'H-J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:49:30
 Time Test Ended: 05:48:15
 Interval: **3975.00 ft (KB) To 4054.00 ft (KB) (TVD)**
 Total Depth: 3368.00 ft (KB) (TVD)
 Hole Diameter: 7.86 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Justin Polfus
 Unit No: 71
 Reference Elevations: 2569.00 ft (KB)
 2564.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8646

Press@RunDepth: 50.75 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.07.27 End Date: 2021.07.28 Last Calib.: 2021.07.27
 Start Time: 21:20:01 End Time: 05:48:15 Time On Btm: 2021.07.27 @ 23:49:15
 Time Off Btm: 2021.07.28 @ 03:34:30

TEST COMMENT: 30 IF- blow built to 1 1/2"
 60 IS- no blow back
 45 FF- blow built to 1"
 90 FS- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.28	117.07	Initial Hydro-static
1	24.60	115.63	Open To Flow (1)
32	38.74	118.58	Shut-In(1)
88	671.69	119.38	End Shut-In(1)
89	40.16	119.26	Open To Flow (2)
135	50.75	120.11	Shut-In(2)
225	622.17	121.02	End Shut-In(2)
226	1809.94	122.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MCO 85%M 15%O	0.31

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bitter Spar LLC

2250 N Rock Road
Wichita KS, 67226

ATTN: Tom Pronold

Pfeifer 33-1

Job Ticket: 67037

DST#: 2

Test Start: 2021.07.27 @ 21:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.80 in³

Resistivity: ohm.m

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	MCO 85%M 15%O	0.310

Total Length: 63.00 ft Total Volume: 0.310 bbl

Num Fluid Samples: 0

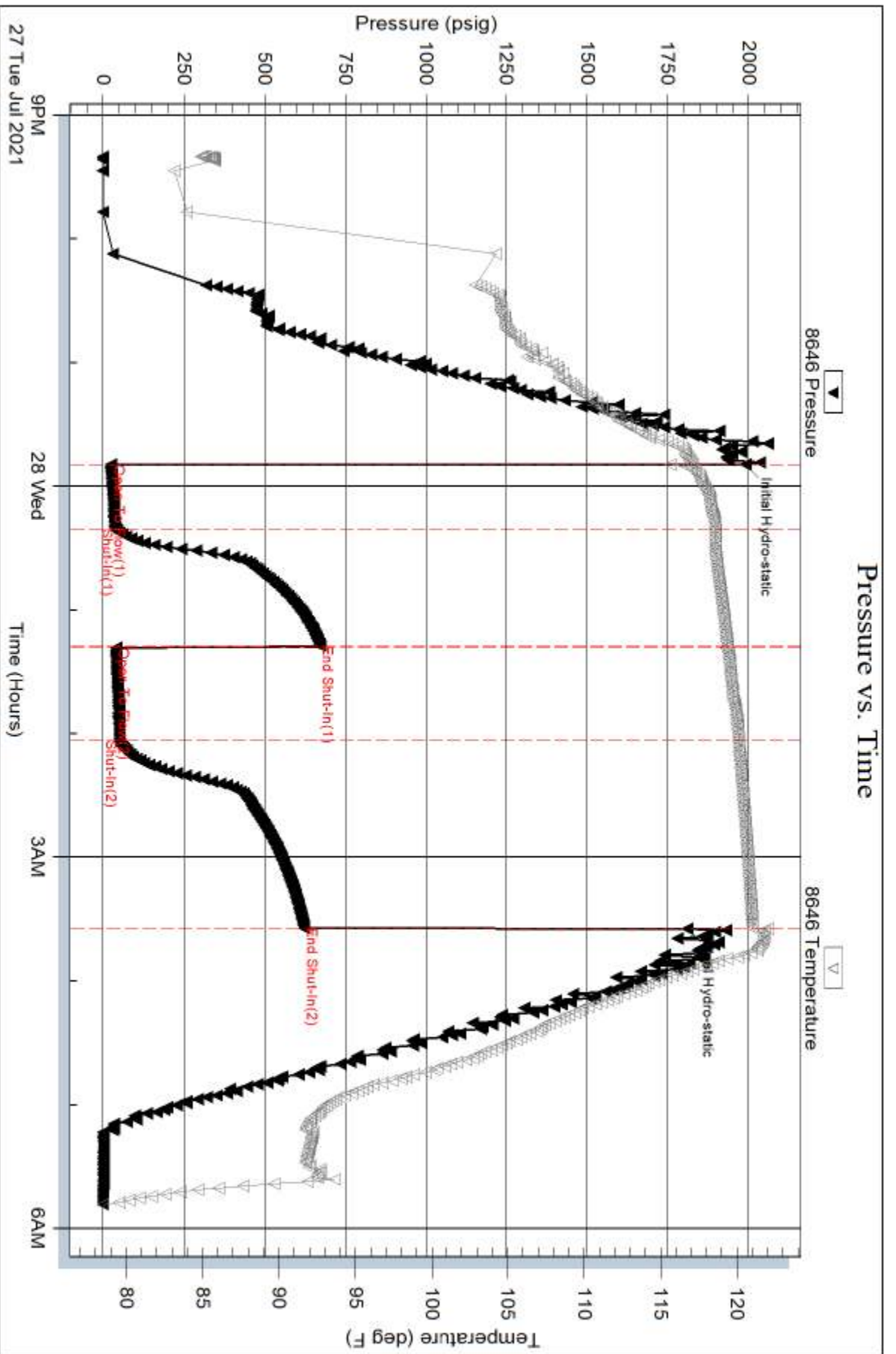
Num Gas Bombs: 0

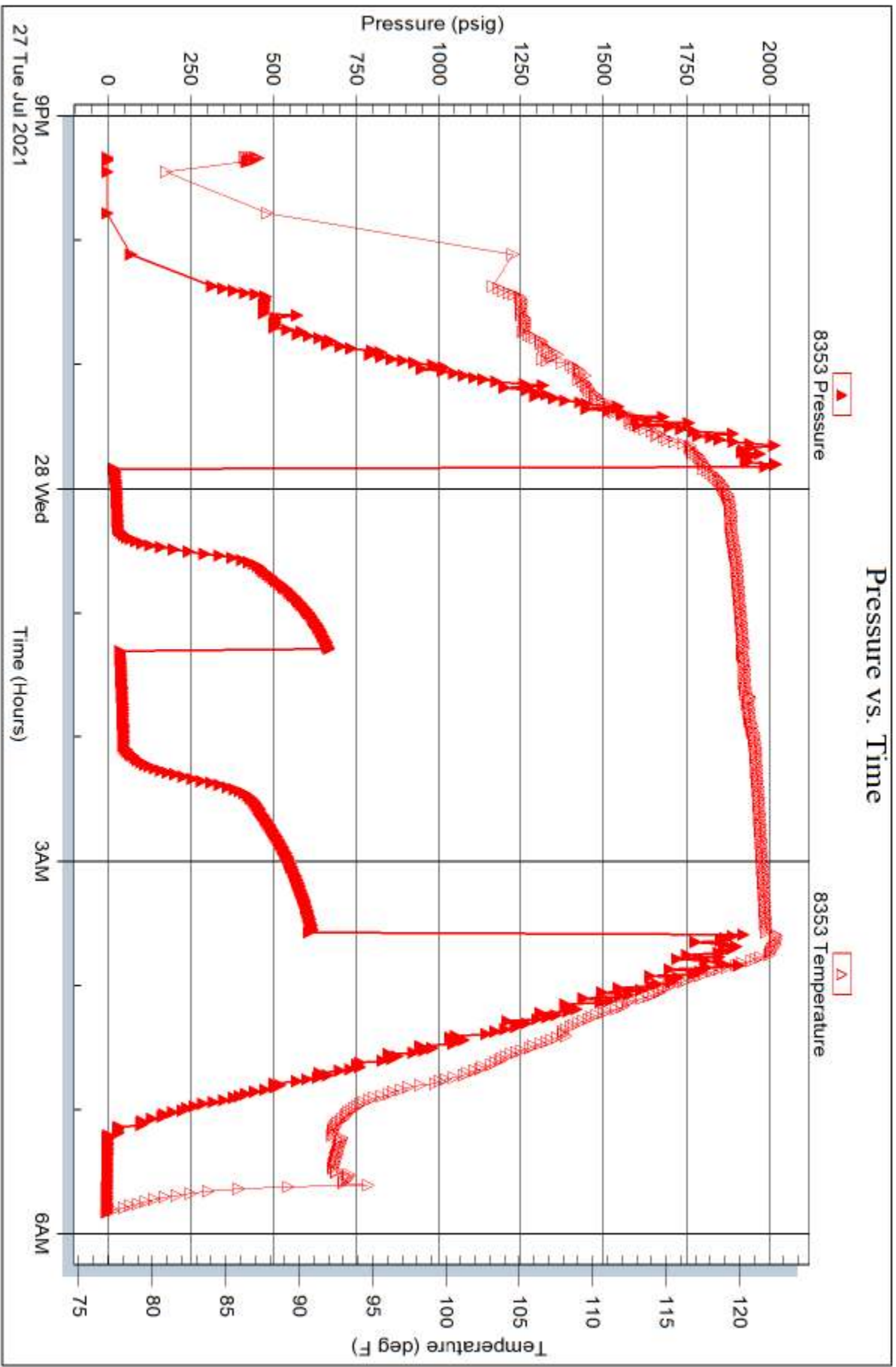
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671
 ◆ Office Phone (785) 639-3949

◆ 24 Hour Phone (785) 639-7269
 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0372
 LOCATION Horvick KS
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-29-21	4247	PFC: Fer 33-1	33	9	25	Graham

CUSTOMER: Bitter Spar LLC
 MAILING ADDRESS: 2250 NO Rock Road
NO 119-1
 CITY: Wichita STATE: KS ZIP CODE: 67226

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom W		
102	Jack T		

JOB TYPE: Rotary Plug HOLE SIZE: _____ HOLE DEPTH: 4100 CASING SIZE & WEIGHT: _____
 CASING DEPTH: _____ DRILL PIPE: 4.5" TUBING: _____ OTHER: _____
 SLURRY WEIGHT: 13.7 SLURRY VOL: 1.4 WATER gal/sk: _____ CEMENT LEFT in CASING: _____
 DISPLACEMENT: _____ DISPLACEMENT PSI: _____ MIX PSI: _____ RATE: _____

REMARKS: Safety meeting + rig up an Marfin #8 to plug. Plugged as ordered.

- 1 50sx 2250'
 - 2 100sx 1375'
 - 3 50sx 275' 255 sx
 - 4 10 sx center
 - 5 30sx RH
 - 6 15sx MH
- Thank You Tom + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL001	1	PUMP CHARGE	\$1150.00	\$1150.00
M001	28	MILEAGE	\$6.50	\$182.00
M002	11.35 tons	Ton Mileage delivery	\$100.00	\$1135.00
CB010	255 sx	60/40 42 gel 1/4" seal	\$16.75	\$4,271.25
			sub total	\$4,203.25
			less 30% disc.	\$1,860.98
			sub total	\$4,342.27
			SALES TAX	224.24
			ESTIMATED TOTAL	4,566.51

AUTHORIZATION: [Signature] TITLE: Trial Pusher DATE: 7-28-21

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0366
 LOCATION Hoxie KS
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
02-22-21	4247	Pfeifer #33-1	33	9	25 W	Graham												
CUSTOMER <u>Bitter Spar LLC</u>			<table border="1"> <tr> <td>TRUCK #</td> <td>DRIVER</td> <td>TRUCK #</td> <td>DRIVER</td> </tr> <tr> <td>101</td> <td>Tom W.</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Jack T.</td> <td></td> <td></td> </tr> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	101	Tom W.				Jack T.		
TRUCK #	DRIVER	TRUCK #					DRIVER											
101	Tom W.																	
	Jack T.																	
MAILING ADDRESS <u>2250 No Rock Road KNO 115-1</u>																		
CITY	STATE	ZIP CODE																
<u>Wichita</u>	<u>KS</u>	<u>67226</u>																
JOB TYPE <u>Surface</u>	HOLE SIZE <u>12 1/4"</u>	HOLE DEPTH <u>212'</u>	CASING SIZE & WEIGHT <u>9 5/8" 23#</u>															
CASING DEPTH	DRILL PIPE	TUBING	OTHER															
SLURRY WEIGHT <u>14.8</u>	SLURRY VOL <u>1.41</u>	WATER gal/sk	CEMENT LEFT in CASING															
DISPLACEMENT <u>11.5 Bbl</u>	DISPLACEMENT PSI	MIX PSI	RATE															
REMARKS: <u>safety meeting + rig up on Murfin Rig #8. Circulate casing + mix 150sx class A 3% cc 29gel. Cement did circulate. Shut in Racked up + moved off</u>																		

Thanks Tom + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE	\$1150.00	\$1150.00
MO01	28	MILEAGE	\$6.50	\$182.00
MO02	7.4 tons	Ton mileage	\$600.00	\$4440.00
LB004	150 sx	Class A Surface blend	\$24.50	\$3,675.00
			sub total	\$5,107.00
			less 30% disc.	\$1,682.10
			sub total	\$3,924.90
			SALES TAX	192.94
			ESTIMATED TOTAL	4117.84

AUTHORIZATION [Signature] TITLE Tool Pusher DATE 2-22-21

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Operator: Bitter Spar LLC
 Address: 2250 No. Rock Road, No. 118-I
 Wichita, KS 67226 USA
 P/316-461-8127

Thomas G. Pronold
 Consulting Petroleum Geologist
 2250 No. Rock Road, No. 118-I
 Wichita, KS 67226
 Mob/316-461-8127
tpronold@sbcglobal.net

Well Name: Pfeifer 33-1
 Location: 600' FSL & 2100' FWL Sec. 33 T9S R25W, Graham Co., KS
 API No.: 15-065-24197
 Field Name: NA
 Spud Date: 07/22/2021 Drilling Completed: 07/29/2021
 Bottom Hole Location: As above
 Ground Level: 2564' (Before location was built) KB Elevation: 2569'
 Logged Interval: 3500' TO: 4100'
 Drilling Fluid Type: Freshwater/Gel to 3300', Chemical/Gel to 4100'

DST #1 Lansing 'A' 3845-3868 30"-30"-30"-30" Initial Open: Weak blow, built to 1 1/4", Final open: Weak blow, built to 3/4", Rec. 75' MW(43% M 57% W), IHP 1920#, IFP 22-41#, ISIP 351#, FFP 43-64#, FSIP 344#, FHP 1870, BHT 120 deg F

DST #2 Lansing 'H-I-J' 3975-4054 30"-60"-45"-90" Initial Open: Weak blow, built to 1 1/2", Final open: Weak blow, built to 1", Rec. 63' OCM(85% M 15% O), IHP 1990#, IFP 25-39#, ISIP 672#, FFP 40-51#, FSIP 622#, FHP 1809, BHT 120 deg F

07/22/21 MIRU Murfin Drilling Rig 8. Spud 12 1/4" Surface hole. Drilling 12 1/4" Surface hole at 212'. 07/23/21. WOC 212' 07/24/21 Drilling at 1885'. 07/25/21 Drilling ahead at 3045'. 07/26/21 Drilling ahead at 3780'. 07/27/2021 Drilling ahead at 3910'. 07/28/21 Tripping in the hole after DST #2 at 4054'. 07/29/21 Rigging down rotary tools at 4100'.

Set new 23# 8 5/8" surface pipe at 212' KB. Franks Oilfield cemented with 150 sks Clas A surface blend. Cement did circulate.

Surveys: 1/2 deg at 212', 1/2 deg at 3868', 1/4 deg at 4100.

Pipe strap at DST #1. 0.78 Short to board. No correction made to board.

Log tops: Heebner Shale 3818 (-1249), Lansing 'A' 3860 (-1291), Lansing 'C' 3890 (-1321), Stark Shale 3984 (-1505)

After review of Electric Logs, Drillstem test results and sample description the operator has elected to plug and abandon the Pfeifer 33-1.

Lithology SHOWS DSTs DEPTH Gamma Ray 1.0 200.0 ROP min/ft 7.0 Description

