

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
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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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LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: GRIFFITH #1
Well Id:
Location: SWNENENW SECTION 29 4S-26 W, DECATUR COUNTY, KANSAS
License Number: 15-039-21282-00-00 Region: MID-CONTINENT
Spud Date: 6-13-2022 Drilling Completed: 6-20-2022
Surface Coordinates: 450' FNL & 2120' FWL

Bottom Hole
Coordinates:
Ground Elevation (ft): 2510 K.B. Elevation (ft): 2515
Logged Interval (ft): 3000 To: 3750 Total Depth (ft): 3750
Formation: LKC
Type of Drilling Fluid: WBM

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

OPERATOR

Company: PIONEER OPERATIONS, LLC
Address: 3014 LIMESTONE CT.
HAYS, KANSAS 67601

GEOLOGIST

Name: William B. Bynog
Company:
Address: P.O.Box 687
Pinecliffe, Co. 80471

Surveys

DEPTH ANGLE FORMATION TOPS
Tops on log below

DSTs

DST#1 3498-3545', DST#2 3594-3750'

Remarks

Giffith #1 came in six feet low to prognosis and had poorly developed porosity zones that were all tested recovering small amounts of oil cut mud and water. A decision was made to plug and abandon based on drill stem tests and logs.

ROCK TYPES

	Anhy		Coal		Lmst		Shcol
	Bent		Congl		Meta		Shgy
	Brec		Dol		Mrlst		Sltst
	Cht		Gyp		Salt		Ss
	Clyst		Igne		Shale		Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

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

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

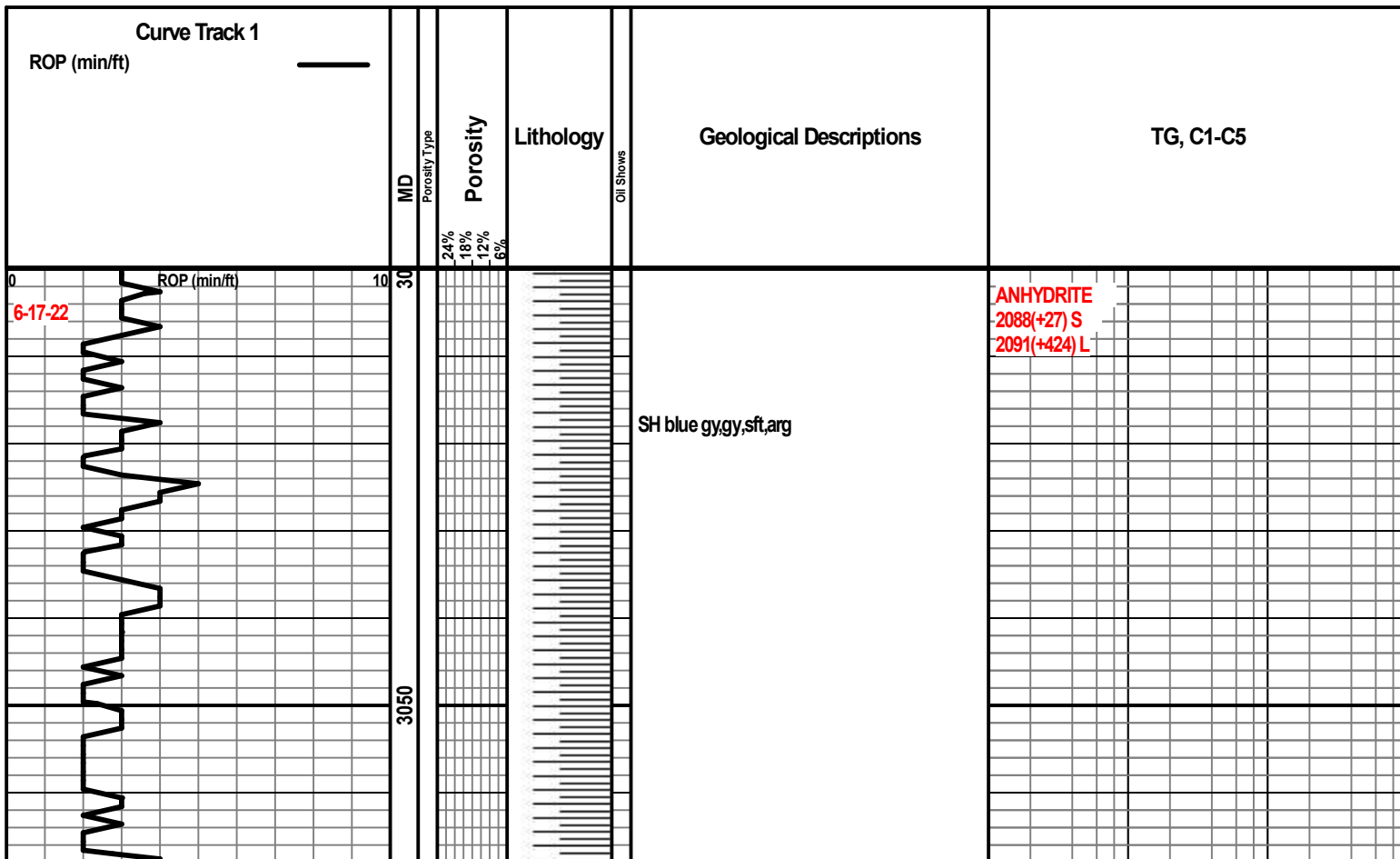
- Even
- Spotted
- Ques
- Dead

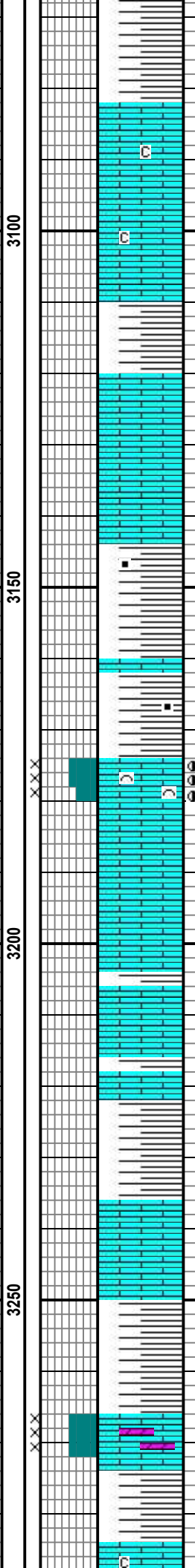
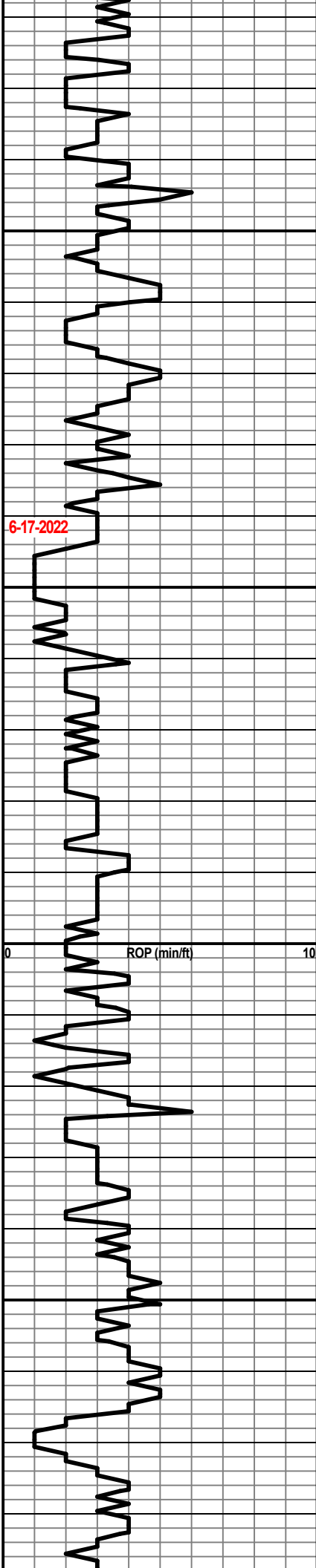
INTERVAL

- Dst
- Dst mis-run

EVENT

- Rft
- Sidewall





LS wh, pale gy, fm, chky, ns

SH aa

LS wh, pale gy, hd, blk, dns, slty ip

SH blk, red, fm, sl carb with thin LS aa

LS off wh, fm, foss, p-tr fr intg foss por, spty-even live lt bm stn, gd cut, faint odor, no free oil

LS off wh, pale gy, hd, blk, dns, chky ip, p por, ns

LS aa with thin SH aa

SH red, gn, fm, arg

LS off wh, hd, blk, sb chky ip p por

SH aa

LS/DOL wh, fm, micsuc tex, fr-gd intxn por, ns

SH aa

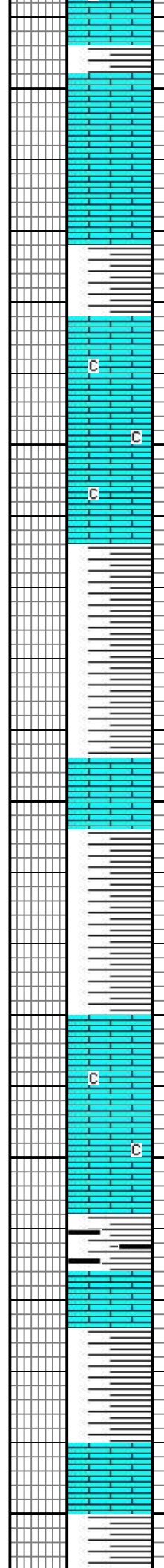
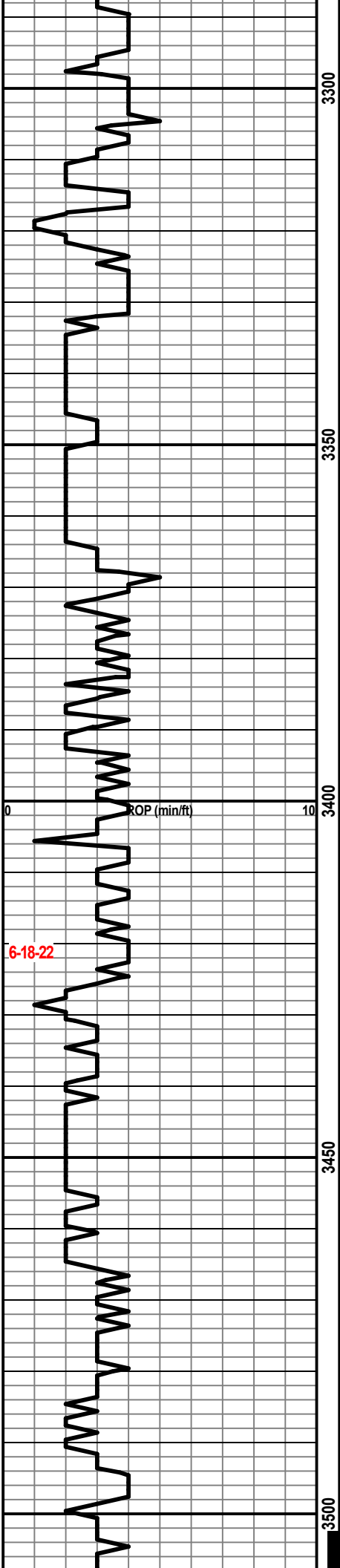
LS sub hd blk, rchly ip, no free oil with thin

MUD DATA 3140' WT 9.0 VIS 48 FL
6.4 PH 11.0 CK 1 CL 1500 LCM 3.0

TORKIO
3174(-659) S
3172(-657) L

HOWARD
3266(-751) S
3270(-755) L

TOPEKA
3283(-768) S



LS wh,rd,blk,chkyp ip, p vis por,ns with thin
SH red,gn,v sft, arg

SH red,sft,arg

LS wh,fm,v chkyp por,ns

SH red,v sft,arg

LS pale gy,hd,dns

SH red,v sft,v arg

LS wh,fm,chkyp vis por, ns

SH blk,fm,carb

LS pale,dns, gy,v hd,dns,ns

SH red,v sft,v arg

LS pale gy, v hd,dns,ns

SH red,sft,arg

3283(-766) S
3286(-771) L

HEEBNER
3460(-945) S
3462(-947) L

MUD DATA 3506' WT 9.2 VIS 61 FL 8.0 PH
9.5 CK 1 CL 1500 LCM 2.0

DST#1
3498-3545'

CFS
6-19-22

DST#2
3594-3750'

ROP (min/ft)

3550

3600

3650

3700

GRAINSTONE wh, fm, oolitic, fr-gd intg foss
por, spty live bm stn, v gd cut, faint odor, gd
show free oil

LS wh, v hd, dns, ns

SH gn, red, fm, arg

GRAINSTONE pale gy, hd, oolitic, p-fr intg foss
por, spty live bm stn, gd cut, fr show free oil

SH aa with thin LS wh, hd, dns, blkyp por, ns

SH red, gn, fm with thin LS aa ns

LS wh, v hd, dns, crptoxin, abnt CHT omg

SH red, fm

GRAINSTONE wh, fm, hd, v foss, p-fr intg foss
por, spty live ft bm stn, gd cut, faint odor

LS wh, v hd, dns, abnt CHT omg, ns

SH aa

LS wh, hd, dns, blkyp, ns, some CHT omg

SH aa red, gn

LS wh, v hd, dns, abnt CHT omg

SH aa

LS wh, hd, sl foss, p pp vuggyv spty bm stn, p
cut, no free oil

SH red sft v am

LANSING A
3510(-995) S
3509(-994) L

C ZONE
3536(1021) S
3536(1021) L

DST#1 3498-3545' LANSING A & C
-TIMES: 30-45-45-60 min.
IH 1781 IF 20-40(.25" blw) ISI 1184
FF 46-52 (no blw) FSI 1164 FH 1749
REC: 14' VSOCM & 61' WCM

MUD DAA 3590' WT 9.2 VIS 59 FL
8.8 PH 9.5 CK 1 CL 2000 LCM 2.0

H ZONE
3614(-1099) S
3615(-1100) L

DST#2 3594-3750' LAN. H-L ZONES
IH 1892 IF 28-35 (.5" blw) ISI 855
FF 41-53 (nb) FSI 1136 FH 1799
REC: 61' MUD

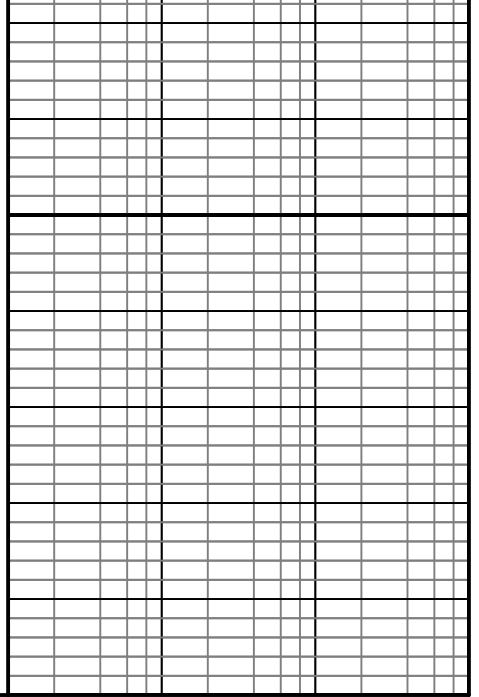
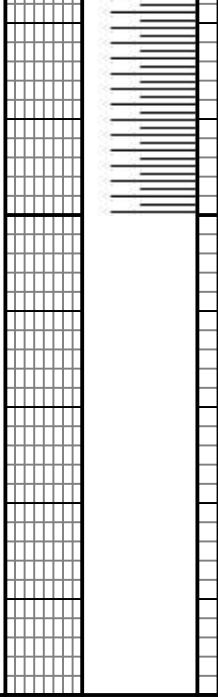
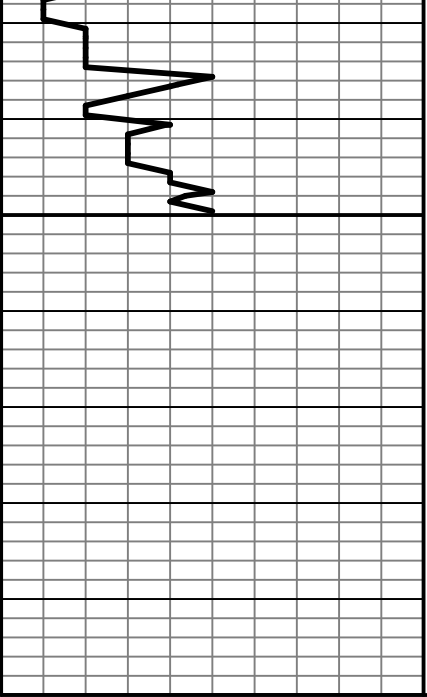
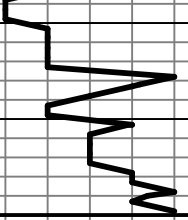
BKC
3697(-1182) S
3699(-1184) L

DRILLER TD 3750'
LOGGER TD 3752'

00

3750

0' 100'





DRILL STEM TEST REPORT

Prepared For: **Pioneer Operations LLC**

3014 Limestone Ct
Hays, KS 67601

ATTN: Bryan Bynog

Griffith #1

29-4s-26w Decatur KS

Start Date: 2022.06.18 @ 19:05:00

End Date: 2022.06.19 @ 04:43:35

Job Ticket #: 68873 DST #: 1

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

Printed: 2022.06.23 @ 09:53:32



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68873

DST#: 1

ATTN: Bryan Bynog

Test Start: 2022.06.18 @ 19:05:00

GENERAL INFORMATION:

Formation: **Lans. "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:18:21

Time Test Ended: 04:43:35

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 3498.00 ft (KB) To 3545.00 ft (KB) (TVD)

Reference Elevations: 2515.00 ft (KB)

Total Depth: 3545.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 51.86 psig @ 3499.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.18

End Date:

2022.06.19

Last Calib.:

2022.06.19

Start Time: 19:05:01

End Time:

04:43:35

Time On Btm:

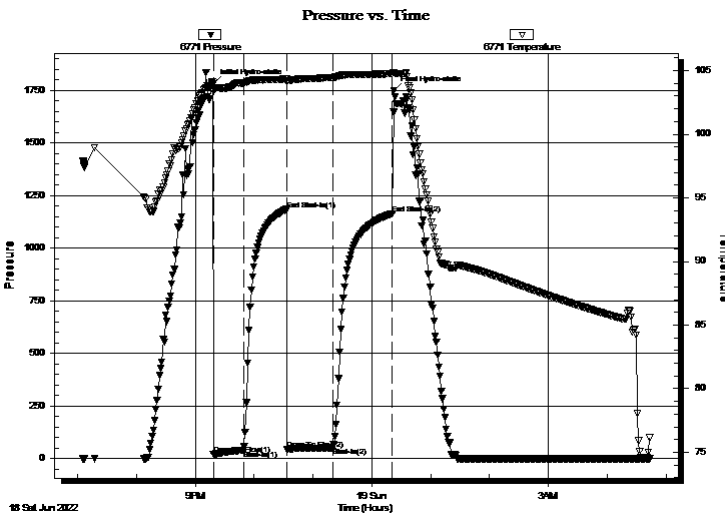
2022.06.18 @ 21:18:06

Time Off Btm:

2022.06.19 @ 00:22:21

TEST COMMENT: 30 - IF: Blow built to 1/4"+, died back a bit
45 - IS: No blow
45 - FF: Blow built to 1/8"
60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.99	103.96	Initial Hydro-static
1	20.18	103.39	Open To Flow (1)
31	39.90	103.99	Shut-In(1)
75	1183.84	104.33	End Shut-In(1)
76	45.57	104.09	Open To Flow (2)
122	51.86	104.46	Shut-In(2)
183	1164.44	104.75	End Shut-In(2)
185	1748.56	104.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
14.00	VSOCM 97% m, 3% o	0.07
61.00	WCM w/oil spots 87% m, 12% w, 1% o	0.43

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68873

DST#: 1

ATTN: Bryan Bynog

Test Start: 2022.06.18 @ 19:05:00

GENERAL INFORMATION:

Formation: **Lans. "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:18:21

Time Test Ended: 04:43:35

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: **3498.00 ft (KB) To 3545.00 ft (KB) (TVD)**

Total Depth: 3545.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2515.00 ft (KB)

2510.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 3499.00 ft (KB)

Start Date: 2022.06.18

End Date: 2022.06.19

Capacity: 8000.00 psig

Last Calib.: 2022.06.19

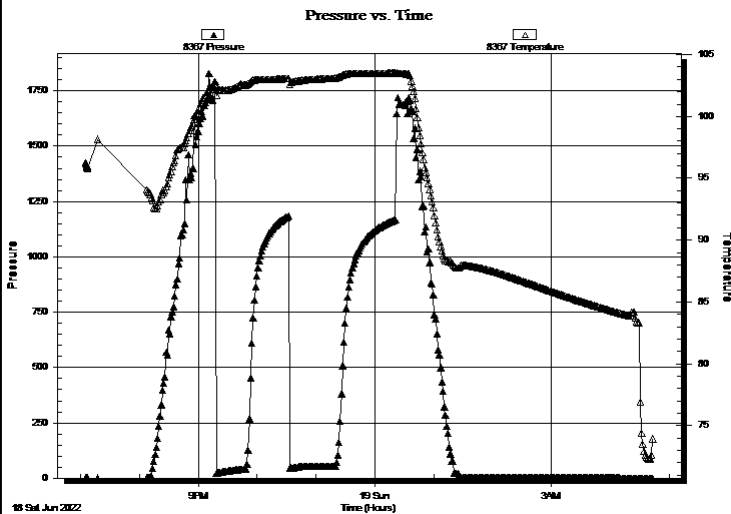
Start Time: 19:05:01

End Time: 04:43:35

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 1/4"+, died back a bit
45 - IS: No blow
45 - FF: Blow built to 1/8"
60 - FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
14.00	VSOCM 97% m, 3% o	0.07
61.00	WCM w/oil spots 87% m, 12% w, 1% o	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68873

DST#: 1

ATTN: Bryan Bynog

Test Start: 2022.06.18 @ 19:05:00

Tool Information

Drill Pipe:	Length: 3420.00 ft	Diameter: 3.80 inches	Volume: 47.97 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3498.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3466.00	
Shut In Tool	5.00			3471.00	
Hydraulic tool	5.00			3476.00	
Jars	5.00			3481.00	
EM Tool	4.00			3485.00	
Safety Joint	3.00			3488.00	
Packer	5.00			3493.00	33.00 Bottom Of Top Packer
Packer	5.00			3498.00	
Stubb	1.00			3499.00	
Recorder	0.00	6771	Inside	3499.00	
Recorder	0.00	8367	Outside	3499.00	
Perforations	9.00			3508.00	
Blank Spacing	34.00			3542.00	
Bullnose	3.00			3545.00	47.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68873

DST#: 1

ATTN: Bryan Bynog

Test Start: 2022.06.18 @ 19:05:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
14.00	VSOCM 97% <i>m</i> , 3% <i>o</i>	0.069
61.00	WCM w/oil spots 87% <i>m</i> , 12% <i>w</i> , 1% <i>o</i>	0.428

Total Length: 75.00 ft Total Volume: 0.497 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

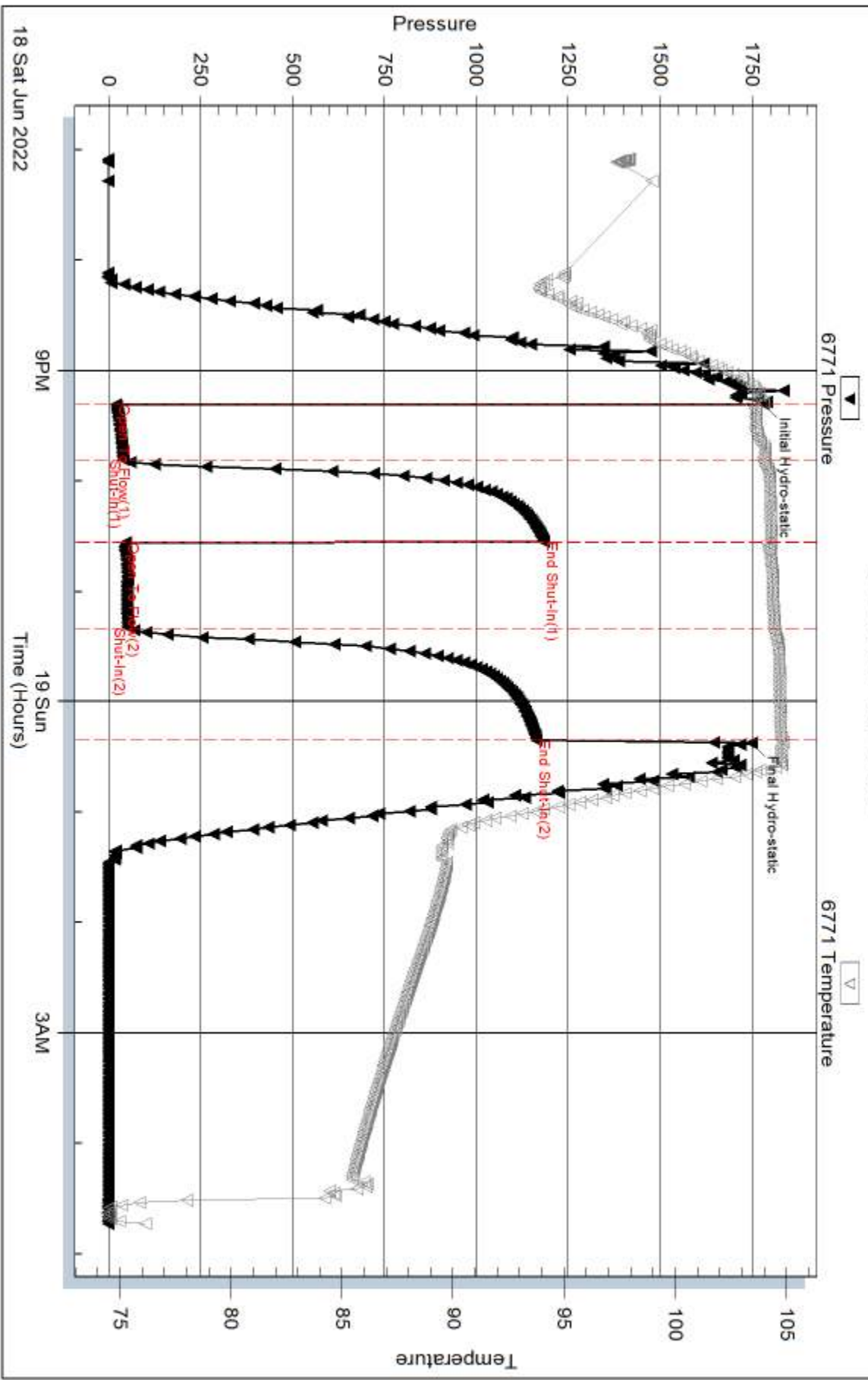
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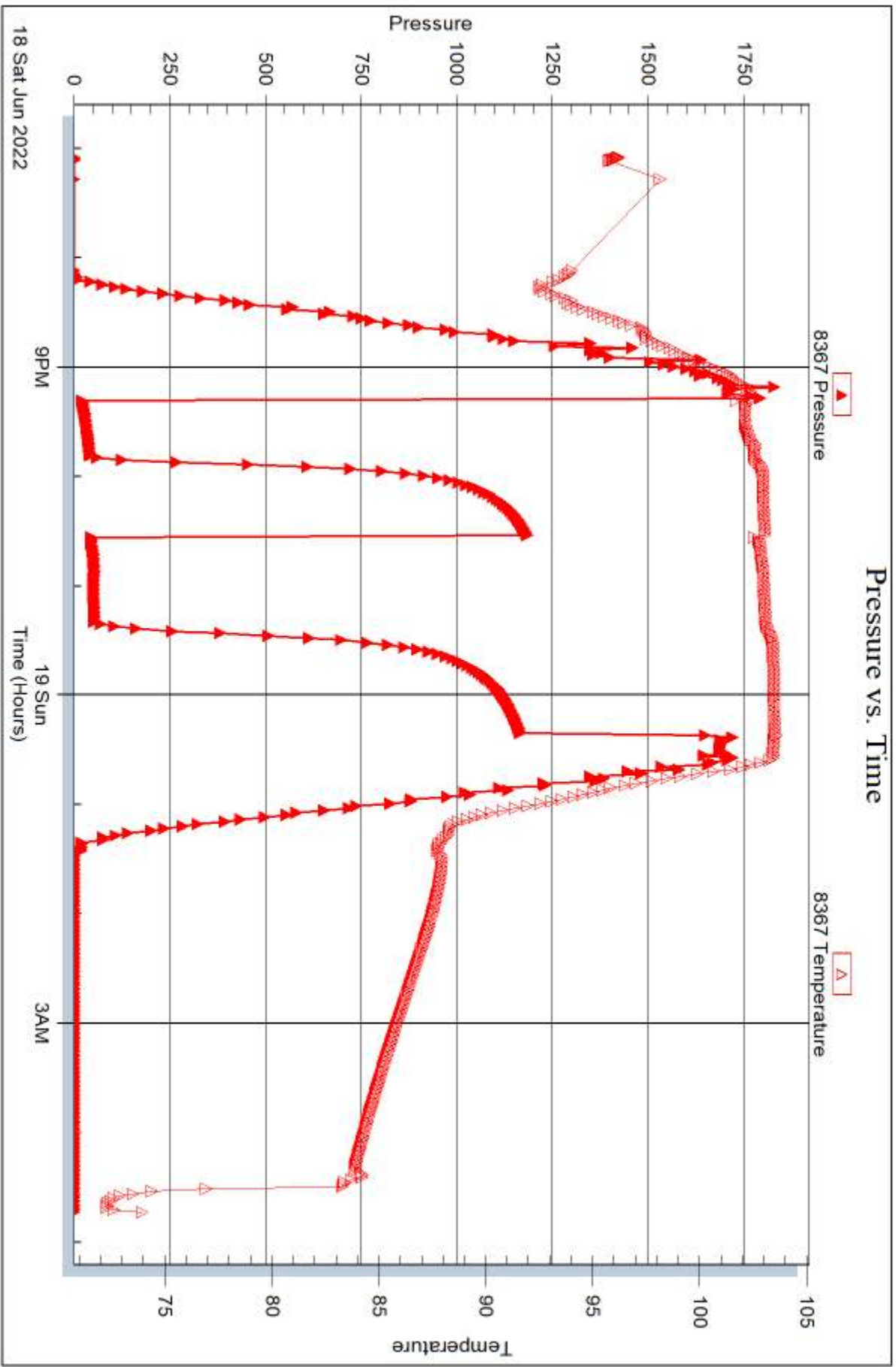
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Pioneer Operations LLC**

3014 Limestone Ct
Hays, KS 67601

ATTN: Bryan Bynog

Griffith #1

29-4s-26w Decatur KS

Start Date: 2022.06.20 @ 05:36:00

End Date: 2022.06.20 @ 12:31:51

Job Ticket #: 68874 DST #: 2

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

Printed: 2022.06.23 @ 09:52:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68874

DST#: 2

ATTN: Bryan Bynog

Test Start: 2022.06.20 @ 05:36:00

GENERAL INFORMATION:

Formation: **Lans. "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:21

Time Test Ended: 12:31:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3594.00 ft (KB) To 3752.00 ft (KB) (TVD)

Reference Elevations: 2515.00 ft (KB)

Total Depth: 3752.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 52.59 psig @ 3595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.20 End Date: 2022.06.20

Last Calib.: 2022.06.20

Start Time: 05:36:01 End Time: 12:31:51

Time On Btm: 2022.06.20 @ 07:19:21

Time Off Btm: 2022.06.20 @ 10:27:06

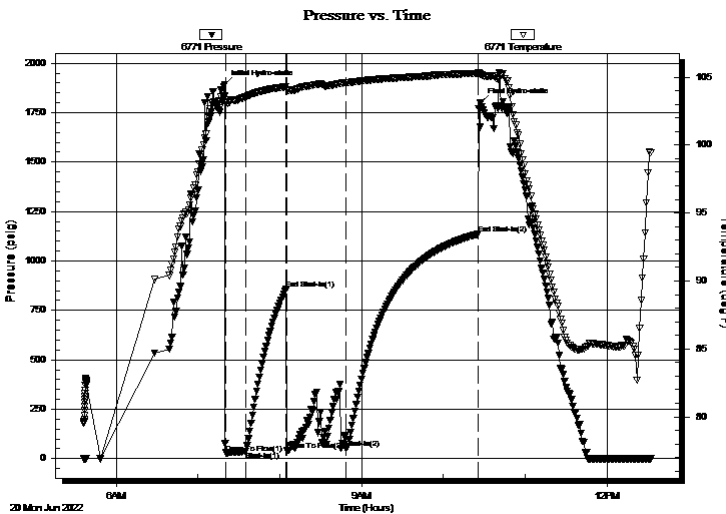
TEST COMMENT: 15 - IF: 1/2" Blow at open, died back, dead by 10 min.

30 - IS: No blow

45 - FF: No blow

90 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.19	103.62	Initial Hydro-static
1	28.45	103.18	Open To Flow (1)
16	35.21	103.54	Shut-In(1)
45	855.44	104.29	End Shut-In(1)
46	40.53	104.09	Open To Flow (2)
90	52.59	104.57	Shut-In(2)
186	1135.70	105.27	End Shut-In(2)
188	1799.24	105.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	Mud 100%	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68874

DST#: 2

ATTN: Bryan Bynog

Test Start: 2022.06.20 @ 05:36:00

GENERAL INFORMATION:

Formation: **Lans. "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:21

Time Test Ended: 12:31:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3594.00 ft (KB) To 3752.00 ft (KB) (TVD)

Reference Elevations: 2515.00 ft (KB)

Total Depth: 3752.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 3595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.20 End Date: 2022.06.20

Last Calib.: 2022.06.20

Start Time: 05:36:01 End Time: 12:31:51

Time On Btm:

Time Off Btm:

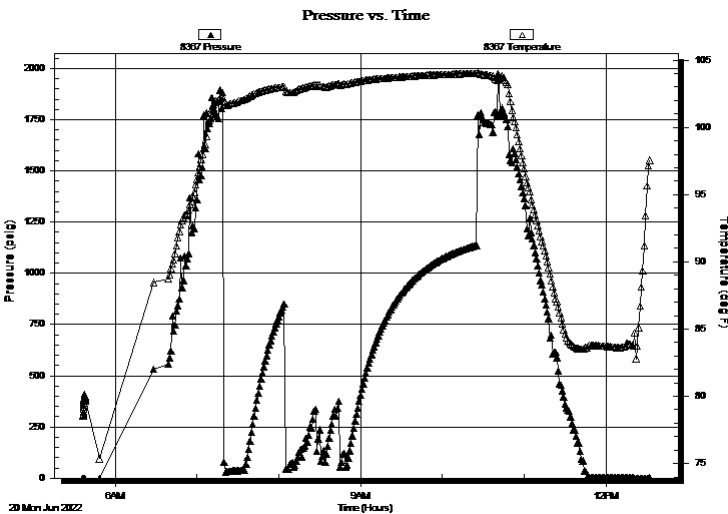
TEST COMMENT: 15 - IF: 1/2" Blow at open, died back, dead by 10 min.

30 - IS: No blow

45 - FF: No blow

90 - FS: No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	Mud 100%	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68874

DST#: 2

ATTN: Bryan Bynog

Test Start: 2022.06.20 @ 05:36:00

Tool Information

Drill Pipe:	Length: 3516.00 ft	Diameter: 3.80 inches	Volume: 49.32 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	23000.00 lb
Drill Collar:	Length: 61.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 49.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3594.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	158.00 ft				
Tool Length:	191.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Found loose hammer union and got tightened on FF

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3562.00	
Shut In Tool	5.00			3567.00	
Hydraulic tool	5.00			3572.00	
Jars	5.00			3577.00	
EM Tool	4.00			3581.00	
Safety Joint	3.00			3584.00	
Packer	5.00			3589.00	33.00 Bottom Of Top Packer
Packer	5.00			3594.00	
Stubb	1.00			3595.00	
Recorder	0.00	6771	Inside	3595.00	
Recorder	0.00	8367	Outside	3595.00	
Perforations	24.00			3619.00	
Blank Spacing	129.00			3748.00	
Perforations	1.00			3749.00	
Bullnose	3.00			3752.00	158.00 Bottom Packers & Anchor

Total Tool Length: 191.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Operations LLC

29-4s-26w Decatur KS

3014 Limestone Ct
Hays, KS 67601

Griffith #1

Job Ticket: 68874

DST#: 2

ATTN: Bryan Bynog

Test Start: 2022.06.20 @ 05:36:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	Mud 100%	0.300

Total Length: 61.00 ft Total Volume: 0.300 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

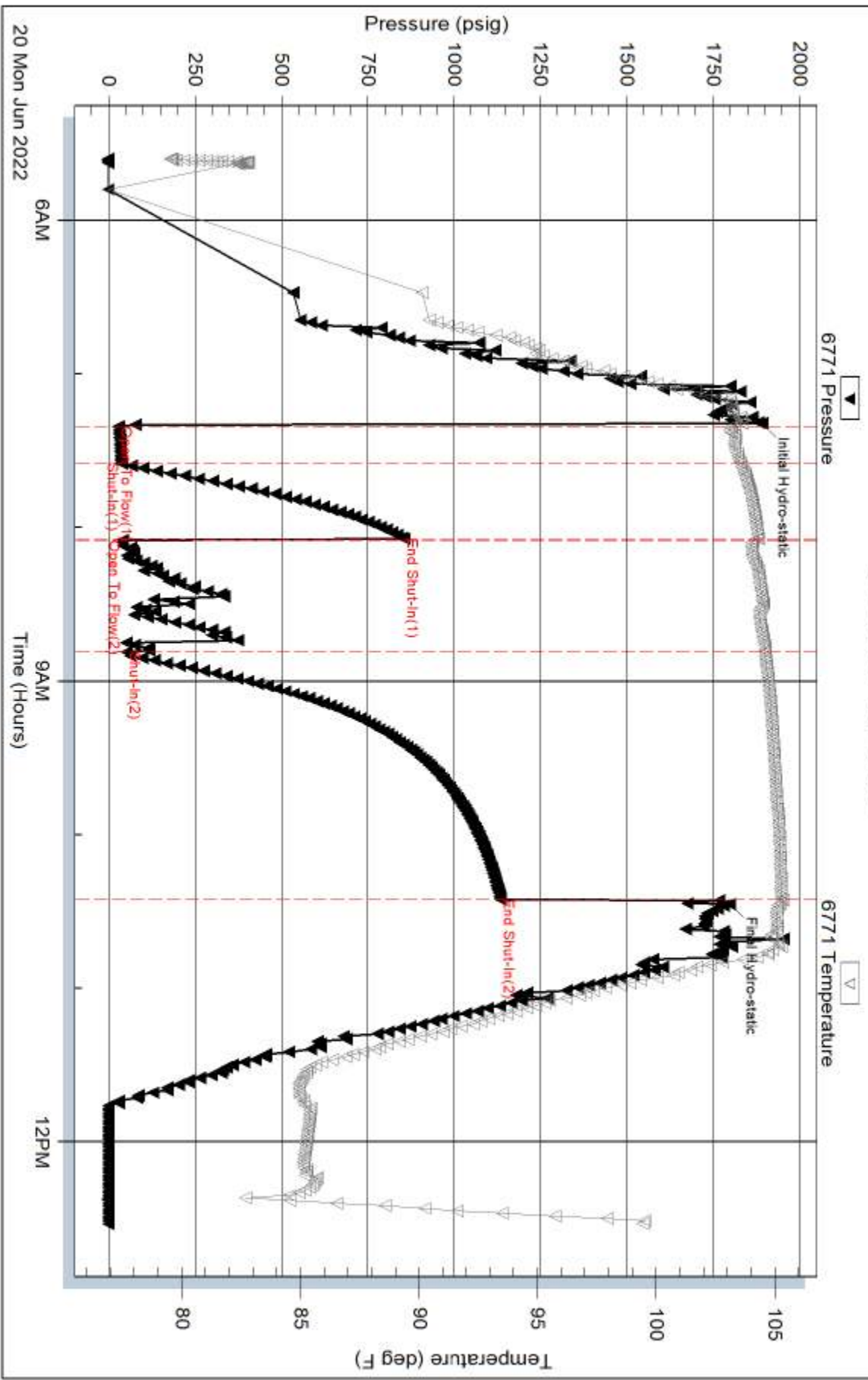
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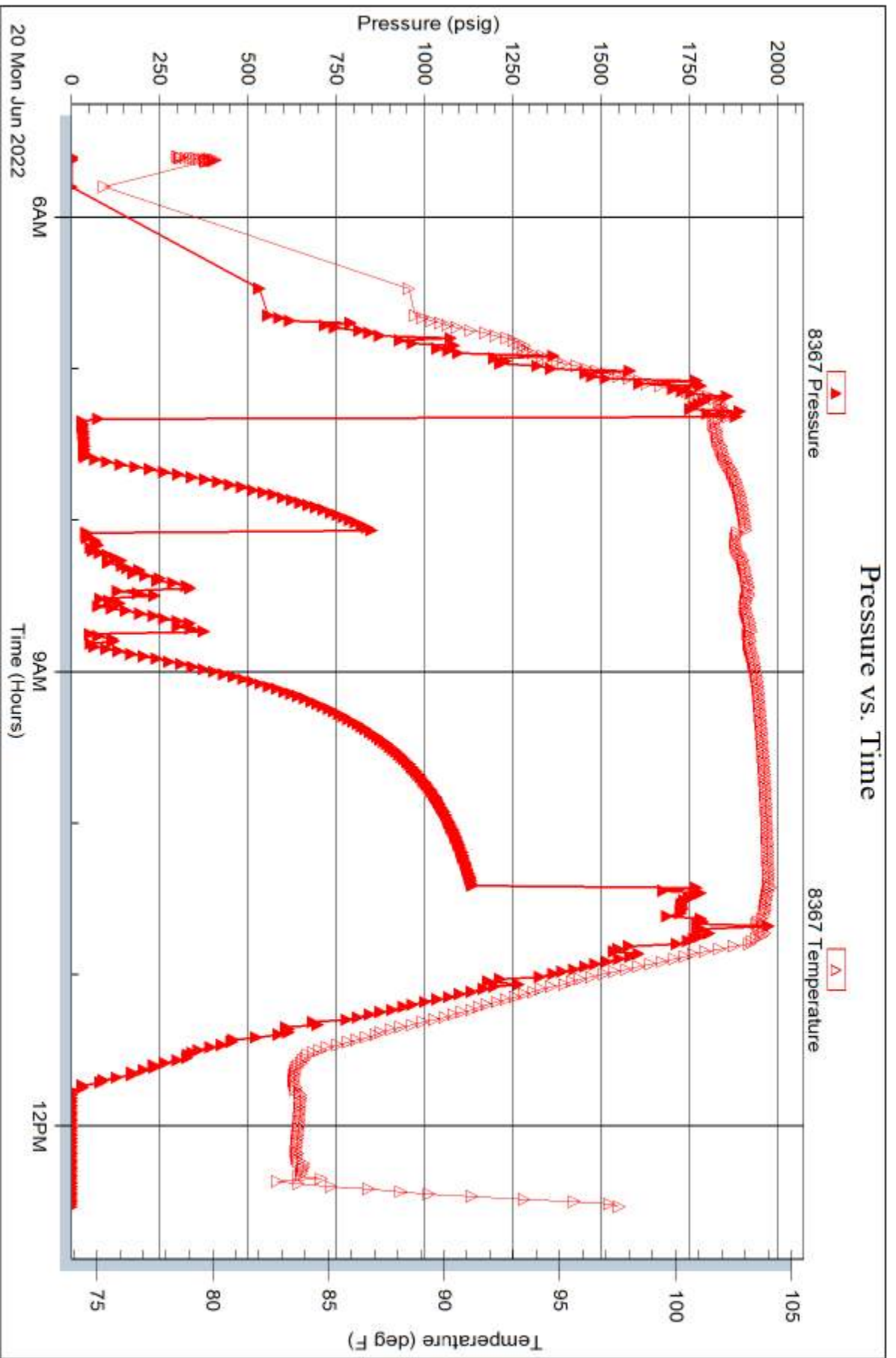
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68873

Well Name & No. Griffith #1 Test No. 1 Date 6-18-22
 Company Pioneer Operations LLC Elevation 2515 KB 2510 GL
 Address 3014 Limestone CT Hays KS 67601
 Co. Rep / Geo. Bryan Bynog Rig White Knight
 Location: Sec. 29 Twp 4s Rge. 26w Co. Decatur State KS

Interval Tested 3498 - 3545 Zone Tested Lans. "A-D" "A-C"
 Anchor Length 47 Drill Pipe Run 3420 Mud Wt. 9.2
 Top Packer Depth 3493 Drill Collars Run 61 Vls 61
 Bottom Packer Depth 3498 Wt. Pipe Run - WL 8.0
 Total Depth 3545 Chlorides 1500 ppm System LCM 2

Blow Description IF: Blow built to 1/4", died back a bit
ISI: No blow
FF: Blow built to 1/8"
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>14</u>	<u>VSOcm</u>	<u>3</u>		<u>97</u>	
<u>61</u>	<u>WCM w/oil spots</u>	<u>1</u>	<u>12</u>	<u>87</u>	

Rec Total 75 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1781
- (B) First Initial Flow 20
- (C) First Final Flow 40
- (D) Initial Shut-In 1184
- (E) Second Initial Flow 46
- (F) Second Final Flow 52
- (G) Final Shut-In 1164
- (H) Final Hydrostatic 1749

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

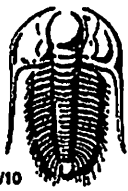
- Test 1800
- Jars 300
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 50RT 75
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2175

T-On Location 5:50 17:50 6/18
 T-Started 19:05
 T-Open 21:18
 T-Pulled 00:20
 T-Out 4:45 6/19
 Comments Rig drive chain brake

- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2175
- MP/DST Disc't _____

Approved By _____ Our Representative James Winder

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.



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68874

Well Name & No. Griffith #1 Test No. 2 Date 6-20-22
 Company Pioneer Operations LLC Elevation 2515 KB 2510 GL
 Address 3014 Limestone CT Hays KS 67601
 Co. Rep / Geo. Bryan Bynog Rig White Knight
 Location: Sec. 29 Twp 4s Rge. 26w Co. Decatur State KS

Interval Tested 3594 - 3752 Zone Tested Lans "H"
 Anchor Length 158 Drill Pipe Run 3516 Mud Wt. 9.4
 Top Packer Depth 3589 Drill Collars Run 61 Vls 55
 Bottom Packer Depth 3594 Wt. Pipe Run - WL 8.0
 Total Depth 3752 Chlorides 2500 ppm System LCM 2#

Blow Description IF: 1/2" Blow at open, died back, dead by 10 min.
ISI: No blow
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>61</u>	<u>Mud</u>			<u>100</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 61 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1892 Test 1800 T-On Location 5:10
 (B) First Initial Flow 28 Jars 300 T-Started 5:36
 (C) First Final Flow 35 Safety Joint _____ T-Open 7:20
 (D) Initial Shut-In 855 Circ Sub _____ T-Pulled 10:25
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 12:35
 (F) Second Final Flow 53 Mileage 50RT 75 Comments Found & tightened loose hammer union on FF
 (G) Final Shut-In 1136 Sampler _____
 (H) Final Hydrostatic 1799 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2175
 Sub Total 2175 MP/DST Disc't _____

Approved By _____ Our Representative James Winder
 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.

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

TICKET NUMBER 0010
 LOCATION Hoxie
 FOREMAN Tom Williams

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-13-22	35862	Griff #1	29	4	26	Deatur

CUSTOMER Pioneer Operations LLC
 MAILING ADDRESS 3014 Limestone LT
 CITY Hoxie STATE KS ZIP CODE 67601

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

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 222' CASING SIZE & WEIGHT 9 5/8" 25#
 CASING DEPTH 222.219 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 12.7 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + set up on White Knight. Circulated mud, Mix 165 gr surface blend followed by 12.7 Bbl Flank - Shut in
Cement did circulate
Plug down 8:30 pm
Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P1002	1	PUMP CHARGE <u>Surface</u>	\$1150 ⁰⁰	\$1150 ⁰⁰
m001	2.09 <u>2.25</u>	MILEAGE	\$65 ⁰⁰	\$182 ⁰⁰
m002	<u>8.09 tons</u>	Ton Mileage Delivery	\$400 ⁰⁰	\$400 ⁰⁰
CB004	<u>165 gr</u>	Class 390 w 270 gr P	\$24 ⁵⁰	\$4,042 ⁵⁰
			sub total	\$5974 ⁵⁰
			less 10% disc.	\$597 ⁴⁵
			sub total	\$5,377 ⁰⁵
			SALES TAX	272.87
			ESTIMATED TOTAL	5649.92

AUTHORIZATION _____ TITLE _____ DATE _____

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.

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-20-22	35962	Griffith 1	29	04	26W	DeCATUR
CUSTOMER <u>Pioneer Operations LLC</u>			TRUCK #			
MAILING ADDRESS <u>3014 Limestone LT</u>			DRIVER			
CITY <u>Hays</u>			TRUCK #			
STATE <u>KS</u>			DRIVER			
ZIP CODE <u>67601</u>			TRUCK #			
			DRIVER			

JOB TYPE PTA HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2" TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up on White Knight. Plugged as ordered

1	2100'	50 SF	
2	1275'	100 SF	
3	275'	50 SF	Plug down @ 45'
4	40'	10 SF	Wiper plug
		RH 30 SF	
		240 total	

Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL005	1	PUMP CHARGE <u>PTA</u>	\$1500.00	\$1500.00
M001	28	MILEAGE	\$6.50	\$182.00
M002	10.68 tons	Ton Mileage Delivery	\$600.00	\$600.00
CB010	240 SF	60/40 49 gal 1 1/4" # Pasted	\$16.75	\$4020.00
			sub total	\$6302.00
			less 10% disc.	\$6136.20
			sub total	\$5671.80
			SALES TAX	271.35
			ESTIMATED TOTAL	5943.15

AUTHORIZATION _____ TITLE _____ DATE _____

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.