

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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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. 2446

Date	9-23-21	Sec.	7	Twp.	14	Range	32	County	Logan	State		On Location		Finish	2:15 PM
								Location OAKLEY 17S 3W 2S							

Lease	RIVER	Well No.	3	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	STP				Charge To	Blake Exploration	
Type Job	PTA	Hole Size	7 1/2	T.D.	4495		
Csg.		Depth		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.		Shoe Joint		Cement Amount Ordered	240464/40 4		
Meas Line		Displace		4 1/2 PLO Seal			

EQUIPMENT							
Pumptrk	6	No.	Cementer	Bill	Common	144	
			Helper	Craig	Poz. Mix	96	
Bulktrk		No.	Driver		Gel.	9	
Bulktrk	2	No.	Driver	Jordan	Calcium		

JOB SERVICES & REMARKS							
Remarks:				Hulls			
Rat Hole	30			Salt			
Mouse Hole				Flowseal	60#		
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
2300	50#			Sand			
1300	100#			Handling	249		
300	50#			Mileage			

FLOAT EQUIPMENT							
40	100#			Guide Shoe			
Rathde	30#			Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				1-8 1/2 Plug			
				Pumptrk Charge	plug		
				Mileage	22		
						Tax	
						Discount	
						Total Charge	

X Signature *[Signature]*

Thanks

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. 2436

Date	9/14/21	Sec.	7	Twp.	14	Range	32	County	Logan	State	KC	On Location		Finish	9:15 PM
								Location	OAKley 17 S 3 W 25						

Lease	RIVER	Well No.	3	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	STP			Charge To	BLAKE EYPL										
Type Job	SURFACE	Hole Size	12 1/4	T.D.	220										
Csg.	8 5/8	Depth													
Tbg. Size		Depth													
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	15	Shoe Joint		Cement Amount Ordered	150 89/20 3-2										
Meas Line		Displace	12 3/4												

EQUIPMENT						
Pumptrk	17	No.	Cementer	Bill	Common	120
			Helper		Poz. Mix	30
Bulktrk		No.	Driver	Craig	Gel.	3
Bulktrk	9	No.	Driver	Jordan	Calcium	6
			Driver		Hulls	

JOB SERVICES & REMARKS			
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	159
		Mileage	
		FLOAT EQUIPMENT	
		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	
		Pumptrk Charge	Surface
		Mileage	22

X Signature	[Signature]	Tax	
		Discount	
		Total Charge	

Thanks



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66705

NO.

Well Name & No. Riner #3 Test No. 1 Date 9-18-21
 Company Blake Exploration LLC Elevation 2843 KB 2835 GL
 Address PO Box 150 Bogue KS 67625
 Co. Rep / Geo. Mike Davignon Rig STP
 Location: Sec. 7 Twp 14s Rge. 32w Co. Logan State KS

Interval Tested 3605 - 3710 Zone Tested Toronto
 Anchor Length 105 Drill Pipe Run 3469 Mud Wt. 8.6
 Top Packer Depth 3600 Drill Collars Run 122 Vis 52
 Bottom Packer Depth 3605 Wt. Pipe Run - WL 8.0
 Total Depth 3710 Chlorides 4600 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 12 min., built to 26"
ISI: No blowback
FF: Blow built to BOB at 19 1/2 min., built to 13"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>mw</u>		<u>59</u>	<u>41</u>	
<u>375</u>	<u>mcw</u>		<u>87</u>	<u>13</u>	
	<u>Oil spots in tool</u>				

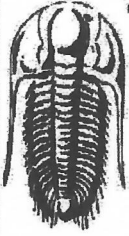
Rec Total 585 BHT 109 Gravity _____ API RW .152 @ 74.1°F Chlorides 48,000 ppm

(A) Initial Hydrostatic 1719 Test _____ T-On Location 13:40
 (B) First Initial Flow 20 Jars _____ T-Started 14:25
 (C) First Final Flow 174 Safety Joint _____ T-Open 16:34
 (D) Initial Shut-In 980 Circ Sub _____ T-Pulled 18:37
 (E) Second Initial Flow 178 Hourly Standby _____ T-Out 20:55
 (F) Second Final Flow 281 Mileage 68RT Comments _____
 (G) Final Shut-In 973 Sampler _____
 (H) Final Hydrostatic 1665 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total _____

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

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

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration, LLC

7/14s/32w Logan KS

PO Box 150
Bogue, KS 67625

Riner #3

Job Ticket: 66705

DST#: 1

ATTN: Mike Davignon

Test Start: 2021.09.18 @ 14:25:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:36

Time Test Ended: 21:00:21

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: **3605.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Total Depth: 3710.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2843.00 ft (KB)

2835.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: 280.61 psig @ 3606.00 ft (KB)

Start Date: 2021.09.18

End Date: 2021.09.18

Start Time: 14:25:00

End Time: 21:00:21

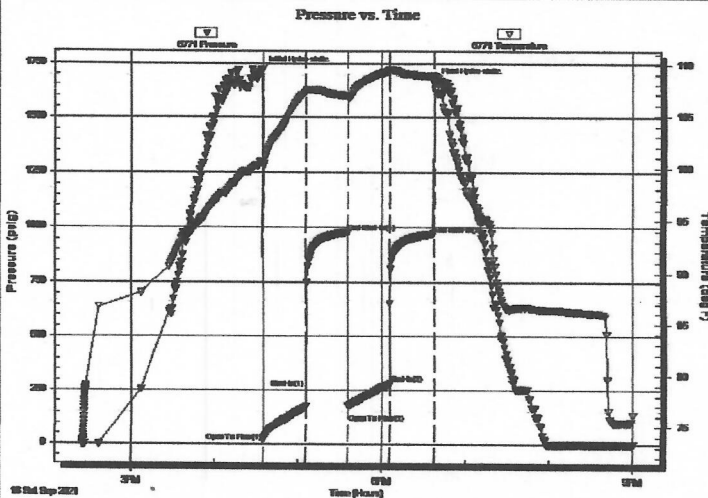
Capacity: 8000.00 psig

Last Calib.: 2021.09.18

Time On Btm: 2021.09.18 @ 16:34:21

Time Off Btm: 2021.09.18 @ 18:38:06

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 12 min., built to 26"
30 - IS: No blow back
30 - FF: Blow built to BOB at 19 1/2 min., built to 13"
30 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.84	100.68	Initial Hydro-static
1	20.46	100.29	Open To Flow (1)
32	174.04	107.30	Shut-In(1)
61	979.55	106.95	End Shut-In(1)
62	177.63	106.74	Open To Flow (2)
91	280.61	109.35	Shut-In(2)
123	972.78	108.87	End Shut-In(2)
124	1664.74	108.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
375.00	MCW 87%w, 13%m	4.15
210.00	MW 59%w, 41%m	2.95
0.00	Oil spots in tool	0.00

Gas Rates

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

Serial #: 6771

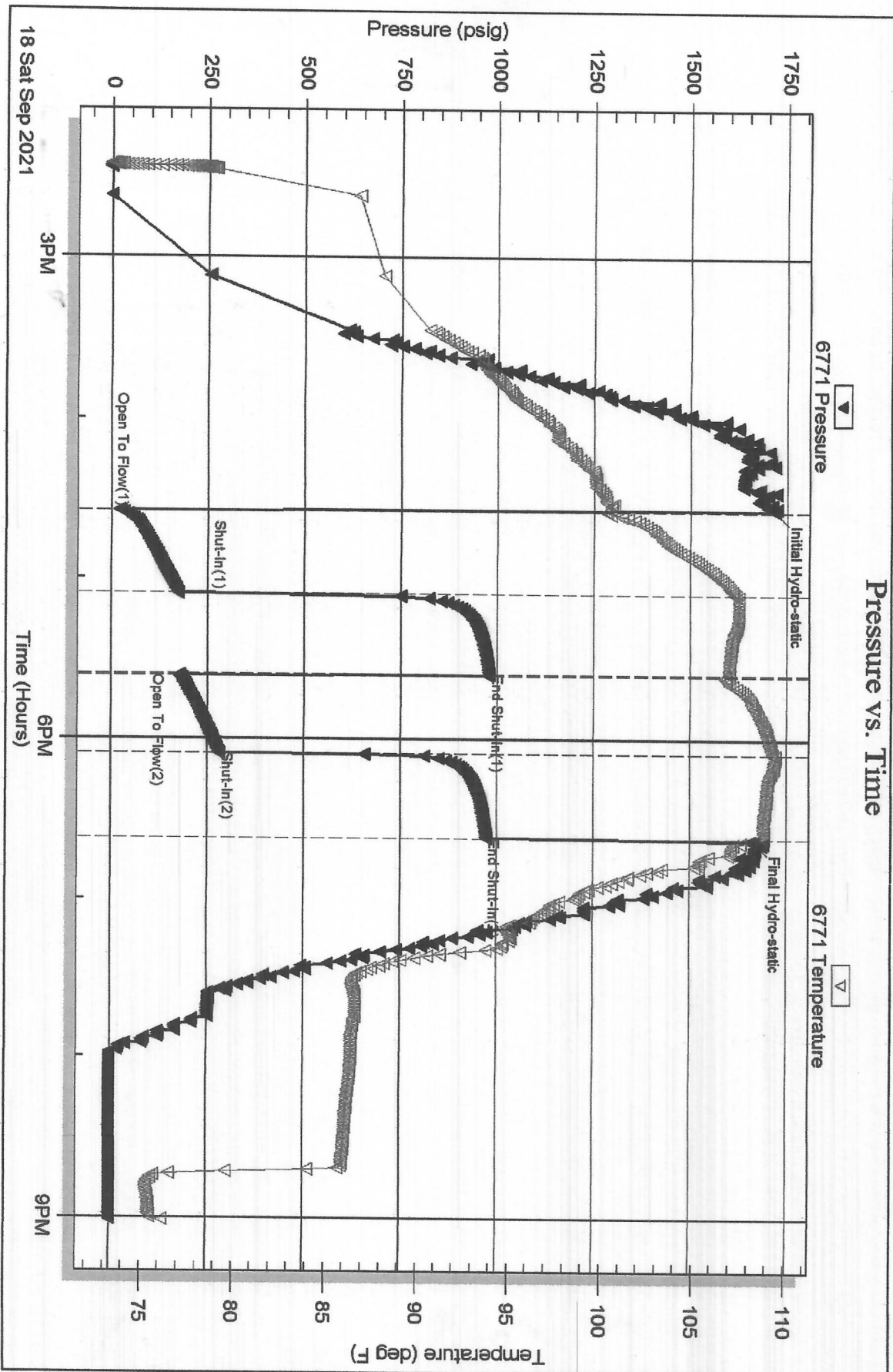
Inside

Blake Exploration, LLC

Riner #3

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66706

NO.

Well Name & No. Riner #3 Test No. 2 Date 9-19-21
 Company Blake Exploration LLC Elevation 2843 KB 2835 GL
 Address PO Box 150 Bogue KS 67625
 Co. Rep / Geo. Mike Davignon Rig STP
 Location: Sec. 7 Twp 14s Rge. 32w Co. Logan State KS

Interval Tested 3980-4010 Zone Tested LKC "H"
 Anchor Length 30 Drill Pipe Run 3850 Mud Wt. 8.7
 Top Packer Depth 3975 Drill Collars Run 122 Vis 58
 Bottom Packer Depth 3980 Wt. Pipe Run - WL 8.4
 Total Depth 4010 Chlorides 8400 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 11 min., built to 39 1/4
ISI: weak surface blowback
FF: Blow built to 8 1/2"
FST: Surface blowback, built slightly then died back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>CO</u>	<u>4</u>	<u>96</u>	<u>-</u>	<u>-</u>
<u>10</u>	<u>SMWCO</u>	<u>-</u>	<u>84</u>	<u>10</u>	<u>6</u>
<u>190</u>	<u>SO/mcw</u>	<u>4</u>	<u>5</u>	<u>58</u>	<u>33</u>
<u>365</u>	<u>SOmcw</u>	<u>-</u>	<u>2</u>	<u>91</u>	<u>7</u>

Rec Total 595 BHT 118 Gravity 26.6 API RW .135 @ 70.8° F Chlorides 58,000 ppm

- (A) Initial Hydrostatic 1992
- (B) First Initial Flow 29
- (C) First Final Flow 214
- (D) Initial Shut-In 996
- (E) Second Initial Flow 218
- (F) Second Final Flow 281
- (G) Final Shut-In 1027
- (H) Final Hydrostatic 1942

- Test
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 68 RT
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 19:10
 T-Started 19:41
 T-Open 21:49
 T-Pulled 00:50
 T-Out 3:00

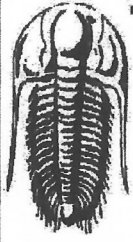
Comments low H2S present

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

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

Approved By _____ Our Representative James Wink

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

Blake Exploration, LLC
 PO Box 150
 Bogue, KS 67625
 ATTN: Mike Davignon

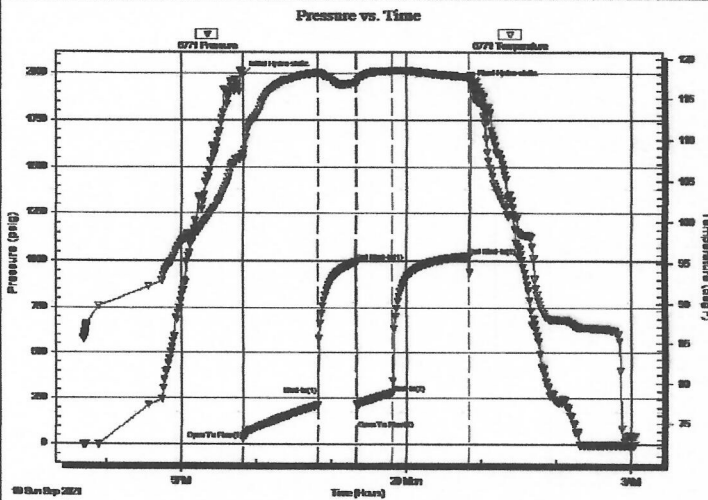
7/14s/32w Logan KS
Riner #3
 Job Ticket: 66706 **DST#: 2**
 Test Start: 2021.09.19 @ 19:41:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:49:06 Tester: James Winder
 Time Test Ended: 03:03:21 Unit No: 73
 Interval: **3980.00 ft (KB) To 4010.00 ft (KB) (TVD)** Reference Elevations: 2843.00 ft (KB)
 Total Depth: 4010.00 ft (KB) (TVD) 2835.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6771 Inside
 Press@RunDepth: 280.98 psig @ 3981.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.19 End Date: 2021.09.20 Last Calib.: 2021.09.20
 Start Time: 19:41:00 End Time: 03:03:21 Time On Btm: 2021.09.19 @ 21:48:51
 Time Off Btm: 2021.09.20 @ 00:52:06

TEST COMMENT: 60 - IF: Blow built to BOB (11") at 11 min., built to 39 1/4"
 30 - IS: Weak surface blow back
 30 - FF: Blow built to 8 1/2"
 60 - FS: Surface blow back, built slightly then died back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.62	108.29	Initial Hydro-static
1	29.15	107.77	Open To Flow (1)
60	214.30	118.21	Shut-In(1)
91	996.12	117.01	End Shut-In(1)
92	217.76	116.93	Open To Flow (2)
120	280.98	118.44	Shut-In(2)
182	1026.86	117.70	End Shut-In(2)
184	1942.42	117.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	SOMCW 91%w, 7%m, 2%o	4.01
190.00	SO/MCW 58%w, 33%m, 5%o, 4%g	2.67
10.00	SMWCO 84%o, 10%w, 6%m	0.14
30.00	CO 96%o, 4%g	0.42

* Recovery from multiple tests

Gas Rates

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

Serial #: 6771

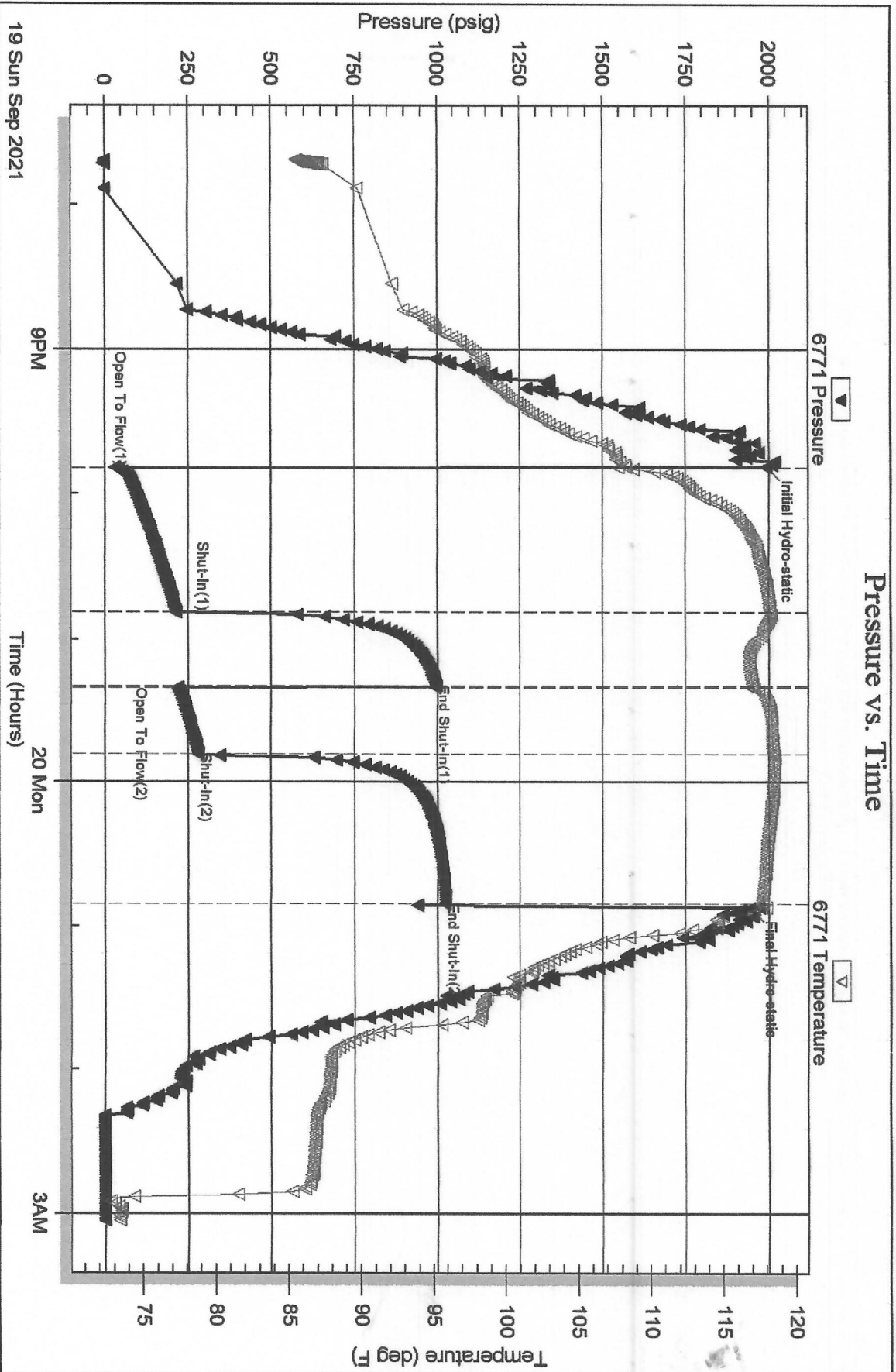
Inside

Blake Exploration, LLC

Riser #3

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66707

NO.

Well Name & No. Riner #3 Test No. 3 Date 9-20-21
 Company Blake Exploration LLC Elevation 2843 KB 2835 GL
 Address PO Box 150 Bogue KS 67625
 Co. Rep / Geo. Mike Davignon Rig STP
 Location: Sec. 7 Twp 14S Rge. 32W Co. Logan State KS

Interval Tested 4015-4040 Zone Tested LKC "I"
 Anchor Length 25 Drill Pipe Run 3882 Mud Wt. 9.0
 Top Packer Depth 4010 Drill Collars Run 122 Vis 56
 Bottom Packer Depth 4015 Wt. Pipe Run - WL 8.8
 Total Depth 4040 Chlorides 9300 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 50 min., built to 13 1/4"
ISI: No blowback
FF: Blow built to 3 3/4"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>53</u>	<u>mw w/trace oil</u>	<u>trace</u>	<u>62</u>	<u>38</u>	
<u>125</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
<u>61</u>	<u>smcw</u>		<u>92</u>	<u>8</u>	
<u>61</u>	<u>mcw w/oil spots</u>	<u>1</u>	<u>89</u>	<u>10</u>	
	<u>GIP = 10'</u>				

Rec Total 300 BHT 118 Gravity _____ API RW 150 @ 71.8 °F Chlorides 50 000 ppm

(A) Initial Hydrostatic 2030 Test _____ T-On Location 10:20
 (B) First Initial Flow 13 Jars _____ T-Started 10:32
 (C) First Final Flow 119 Safety Joint _____ T-Open 12:15
 (D) Initial Shut-In 1051 Circ Sub _____ T-Pulled 14:48
 (E) Second Initial Flow 120 Hourly Standby _____ T-Out 16:40
 (F) Second Final Flow 153 Mileage 68RT Comments _____
 (G) Final Shut-In 1045 Sampler _____
 (H) Final Hydrostatic 2005 Straddle _____

Initial Open 60 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total _____ MP/DST Disc't _____
 Accessibility _____
 Sub Total _____

Approved By _____ Our Representative James Winkler

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration, LLC

7/14s/32w Logan KS

PO Box 150
Bogue, KS 67625

Riner #3

Job Ticket: 66707

DST#: 3

ATTN: Mike Davignon

Test Start: 2021.09.20 @ 10:32:00

GENERAL INFORMATION:

Formation: **LKC "1"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:36

Time Test Ended: 16:44:06

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: **4015.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Reference Elevations: 2843.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

2835.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **6771**

Inside

Press@RunDepth: 152.82 psig @ 4016.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.20

End Date: 2021.09.20

Last Calib.: 2021.09.20

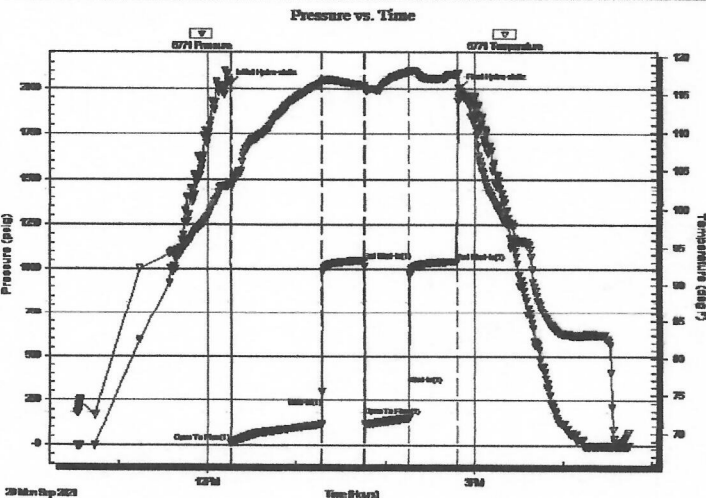
Start Time: 10:32:00

End Time: 16:44:06

Time On Btm: 2021.09.20 @ 12:15:06

Time Off Btm: 2021.09.20 @ 14:49:51

TEST COMMENT: 60 - IF: Blow built to BOB (11") at 50 min., built to 13 1/4"
30 - IS: No blow back
30 - FF: Blow built to 3 3/4"
30 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.88	103.21	Initial Hydro-static
1	13.41	102.87	Open To Flow (1)
62	119.10	116.61	Shut-In(1)
91	1051.36	116.22	End Shut-In(1)
91	119.71	115.90	Open To Flow (2)
121	152.82	118.04	Shut-In(2)
153	1045.44	117.66	End Shut-In(2)
155	2005.36	114.79	Final Hydro-static

Recovery

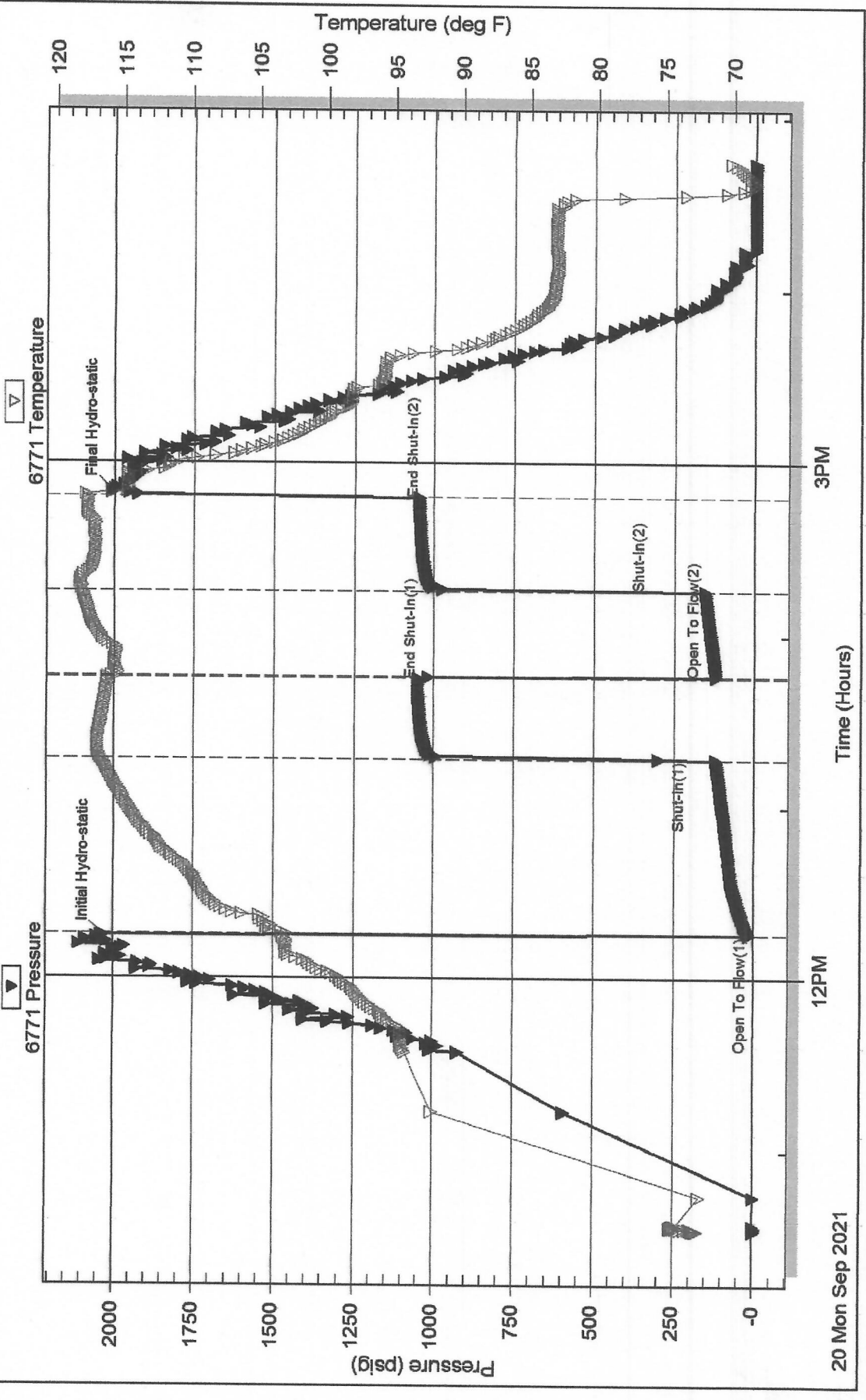
Length (ft)	Description	Volume (bbl)
61.00	MCW w /Oil spots 89%w , 10%m, 1%o	0.30
61.00	SMCW 92%w , 8%m	0.30
125.00	MCW 70%w , 30%m	1.75
53.00	MW w /trace oil 62%w , 38%m	0.74
0.00	GIP = 10'	0.00

* Recovery from multiple tests

Gas Rates

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

Pressure vs. Time



20 Mon Sep 2021

3PM

12PM



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66708

NO.

Well Name & No. Riner #3 Test No. 4 Date 9-21-21
 Company Blake Exploration LLC Elevation 2843 KB 2835 GL
 Address PO Box 150 Bogue KS 67625
 Co. Rep / Geo. Mike Davignon Rig STP
 Location: Sec. 7 Twp 14s Rge. 32w Co. Logan State KS

Interval Tested 4070 - 4083 Zone Tested LKC "K"
 Anchor Length 13 Drill Pipe Run 3945 Mud Wt. 9.0
 Top Packer Depth 4065 Drill Collars Run 122 Vls 56
 Bottom Packer Depth 4070 Wt. Pipe Run - WL 8.8
 Total Depth 4083 Chlorides 9300 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 2 1/2 min, built to 134"
ISI: No blowback
FF: Blow built to BOB at 3 min, built to 144 1/2"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>245</u>	<u>mcw</u>		<u>74</u>	<u>26</u>	
<u>250</u>	<u>smcw</u>		<u>95</u>	<u>5</u>	
<u>1575</u>	<u>Water</u>		<u>99</u>	<u>1</u>	

Rec Total 2070 BHT 120 Gravity _____ API RW .185 @ 53.4° F Chlorides 54,000 ppm

- (A) Initial Hydrostatic 2070
- (B) First Initial Flow 70
- (C) First Final Flow 551
- (D) Initial Shut-In 1089
- (E) Second Initial Flow 550
- (F) Second Final Flow 963
- (G) Final Shut-In 1085
- (H) Final Hydrostatic 1993

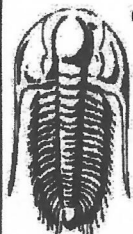
- Test _____
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 68 RT
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total _____

- T-On Location 00:45
- T-Started 1:01
- T-Open 2:44
- T-Pulled 6:17
- T-Out 8:50
- Comments _____
- _____
- _____
- EM Tool _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total _____
- Total _____
- MP/DST Disc't _____

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

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.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration, LLC

7/14s/32w Logan KS

PO Box 150
Bogue, KS 67625

Riner #3

Job Ticket: 66708

DST#: 4

ATTN: Mike Davignon

Test Start: 2021.09.21 @ 01:01:00

GENERAL INFORMATION:

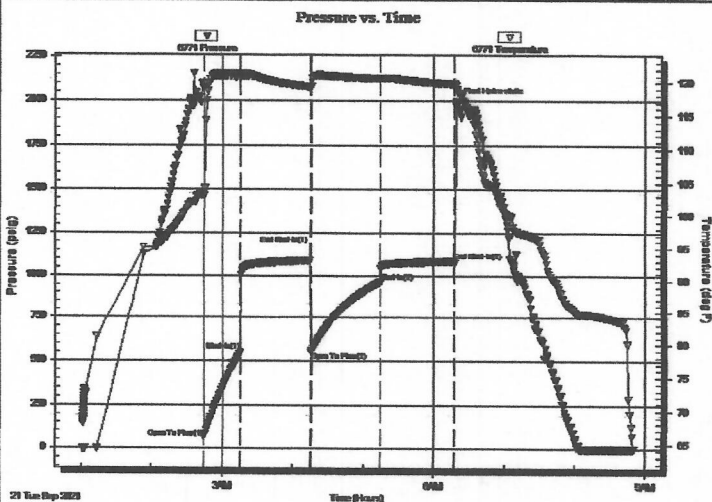
Formation: **LKC "K"**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **02:44:36**
 Tester: **James Winder**
 Time Test Ended: **08:50:21**
 Unit No: **73**
 Interval: **4070.00 ft (KB) To 4083.00 ft (KB) (TVD)**
 Reference Elevations: **2843.00 ft (KB)**
 Total Depth: **4083.00 ft (KB) (TVD)**
2835.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **8.00 ft**

Serial #: 6771

Inside

Press@RunDepth: **963.12 psig @ 4071.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2021.09.21** End Date: **2021.09.21** Last Calib.: **2021.09.21**
 Start Time: **01:01:00** End Time: **08:50:21** Time On Btm: **2021.09.21 @ 02:44:21**
 Time Off Btm: **2021.09.21 @ 06:19:21**

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 2 1/2 min., built to 134"
 60 - IS: No blow back
 60 - FF: Blow built to BOB at 3 min., built to 144 1/2"
 60 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.02	103.56	Initial Hydro-static
1	70.21	102.96	Open To Flow (1)
31	551.05	121.23	Shut-In(1)
91	1088.60	119.32	End Shut-In(1)
91	550.47	119.12	Open To Flow (2)
151	963.12	120.63	Shut-In(2)
214	1085.36	119.82	End Shut-In(2)
215	1993.09	118.97	Final Hydro-static

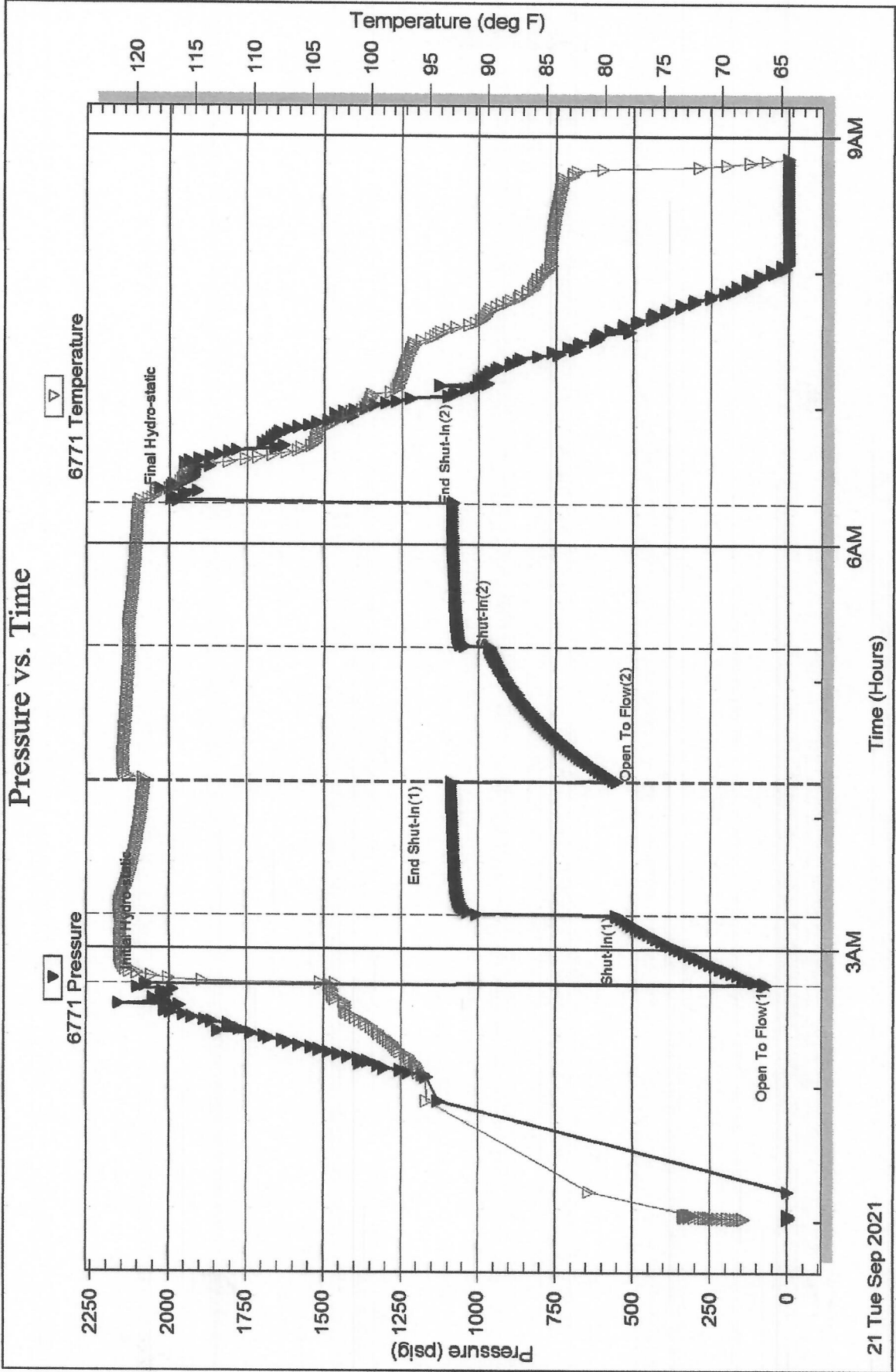
Recovery

Length (ft)	Description	Volume (bbl)
1575.00	Water 99%w, 1%m	20.98
250.00	SMCW 95%w, 5%m	3.51
245.00	MCW 74%w, 26%m	3.44

* Recovery from multiple tests

Gas Rates

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





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66709

NO.

Well Name & No. Riner #3 Test No. 5 Date 9-21-21
 Company Blake Exploration LLC Elevation 2843 KB 2835 GL
 Address PO Box 150 Bogue KS 67625
 Co. Rep / Geo. Mike Davignon Rig STP
 Location: Sec. 7 Twp 14s Rge. 32w Co. Logan State KS

Interval Tested 4105~~4100~~ - 4125 Zone Tested LKC "L"
 Anchor Length 20 Drill Pipe Run 3977 Mud Wt. 9.0
 Top Packer Depth 4100 Drill Collars Run 122 Vis 85
 Bottom Packer Depth 4105 Wt. Pipe Run - WL 9.2
 Total Depth 4125 Chlorides 16200 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 30sec, built to 447"
ISI: No blowback
FF: Blow built to 6" then died back, dead at 27min.
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>390</u>	<u>mcw</u>		<u>68</u>	<u>32</u>	
<u>315</u>	<u>smcw</u>		<u>95</u>	<u>5</u>	
<u>1640</u>	<u>Water</u>		<u>99</u>	<u>1</u>	

Rec Total 2345 BHT 119 Gravity _____ API RW 185 @ 55.5 °F Chlorides 52,000 ppm

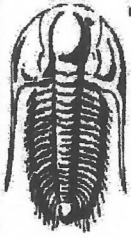
(A) Initial Hydrostatic 2088 Test _____ T-On Location 15:25
 (B) First Initial Flow 587 Jars _____ T-Started 15:47
 (C) First Final Flow 1082 Safety Joint _____ T-Open 17:34
 (D) Initial Shut-In 1085 Circ Sub _____ T-Pulled 19:36
 (E) Second Initial Flow 1075 Hourly Standby _____ T-Out 22:20
 (F) Second Final Flow 1086 Mileage 68RT Comments _____
 (G) Final Shut-In 1086 Sampler _____
 (H) Final Hydrostatic 2050 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total _____

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

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

Approved By _____ Our Representative James Winder

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blake Exploration, LLC

7/14s/32w Logan KS

PO Box 150
Bogue, KS 67625

Riner #3

Job Ticket: 66709

DST#: 5

ATTN: Mike Davignon

Test Start: 2021.09.21 @ 15:47:00

GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:51

Time Test Ended: 22:18:36

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: **4105.00 ft (KB) To 4125.00 ft (KB) (TVD)**

Total Depth: 4125.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2843.00 ft (KB)

2835.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: 1085.99 psig @ 4106.00 ft (KB)

Start Date: 2021.09.21

End Date:

2021.09.21

Capacity: 8000.00 psig

Last Calib.: 2021.09.21

Start Time: 15:47:00

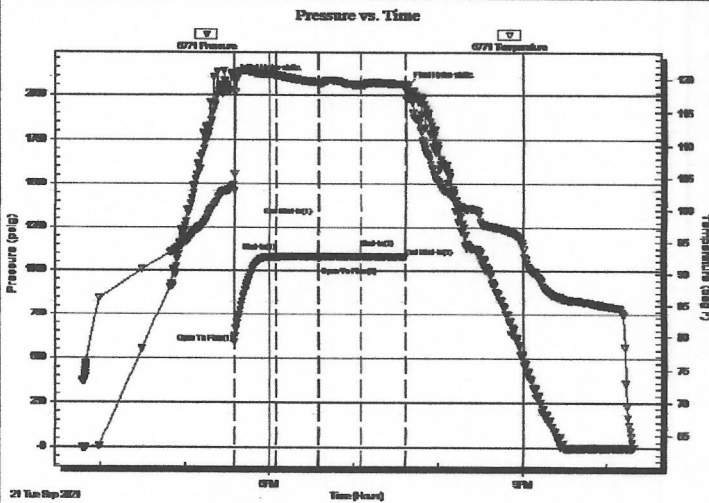
End Time:

22:18:36

Time On Btmr: 2021.09.21 @ 17:34:36

Time Off Btmr: 2021.09.21 @ 19:37:51

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 30 sec., built to 447"
30 - IS: No blow back
30 - FF: Blow built to 6", died back, dead at 27 min.
30 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.81	103.90	Initial Hydro-static
1	587.39	102.98	Open To Flow (1)
31	1082.38	120.63	Shut-In(1)
60	1085.18	119.55	End Shut-In(1)
61	1075.32	119.53	Open To Flow (2)
91	1085.99	119.19	Shut-In(2)
122	1086.36	119.23	End Shut-In(2)
124	2049.54	117.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1640.00	Water 99%w, 1%m	21.89
315.00	SMCW 95%w, 5%m	4.42
390.00	MCW 68%w, 32%m	5.47

* Recovery from multiple tests

Gas Rates

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

Serial #: 6771

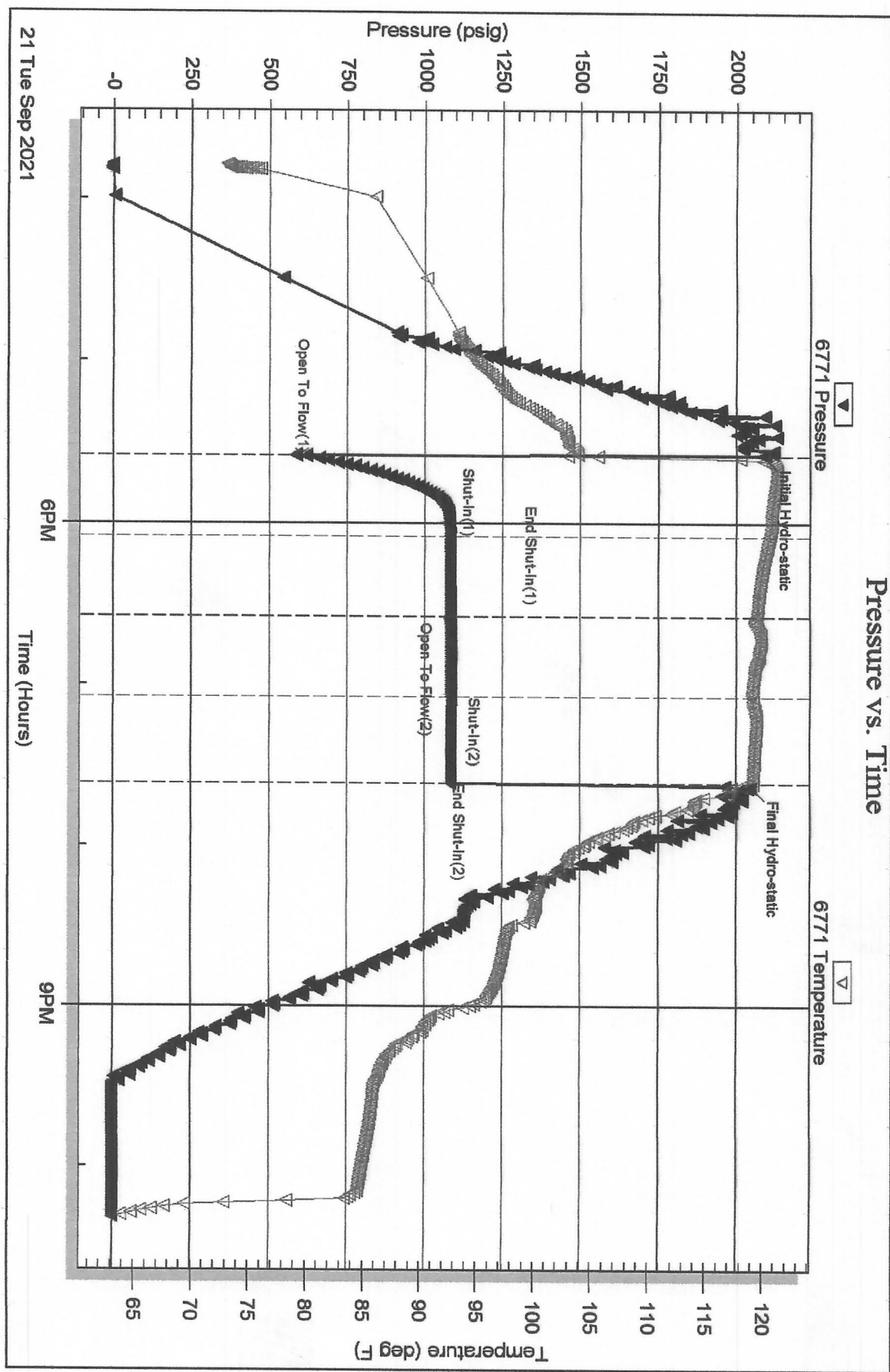
Inside

Blake Exploration, LLC

Riser #3

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 66709

Printed: 2021.09.21 @ 22:32:16