

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)</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. 3504

Date	3-16-23	Sec.	12	Twp.	7	Range	21	County	Gregg	State	KS	On Location		Finish	
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Location *Nicodemus 3 1/2 N 1 E 4*

Lease	<i>LESAGE</i>	Well No.	<i>1</i>	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	<i>Discovery #4</i>				Charge To	<i>BLAKE Expl. LLC</i>	
Type Job	<i>SURFACE</i>	Hole Size	<i>12 1/4</i>	T.D.	<i>220</i>	Street	
Csg.	<i>8 5/8</i>	Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	<i>15</i>	Shoe Joint		Cement Amount Ordered	<i>1804 B/20 3-2</i>		
Meas Line		Displace	<i>13 3/4</i>				

EQUIPMENT

Pumptrk	<i>17</i>	No.		Cementor	<i>Bill</i>	Common	<i>145</i>
				Helper		Poz. Mix	<i>35</i>
Bulktrk		No.		Driver	<i>NICK</i>	Gel.	<i>3</i>
Bulktrk		No.		Driver		Calcium	<i>7</i>

JOB SERVICES & REMARKS

Remarks:	<i>Head sand wanted more cement</i>	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<i>190</i>
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge *Surface Job*
Mileage *50*

X Signature *Ryan Doralt*

Thanks

Tax
Discount
Total Charge

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. 3508

Date <u>3-22-23</u>	Sec. <u>12</u>	Twp. <u>7</u>	Range <u>21</u>	County <u>GRAHAM</u>	State <u>KS</u>	On Location	Finish <u>S: 30am</u>
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Location Nicademics 3 N 1 E

Lease <u>LESAGE</u>	Well No. <u>1</u>	Owner
Contractor <u>Discovery</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>PTA</u>		
Hole Size <u>7 7/8</u>	T.D. <u>3610</u>	Charge To <u>BLAKE Expl. LL</u>
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 <u>30514 60/40-4</u>
Meas Line	Displace	<u>1/2" Flowseal</u>

EQUIPMENT

Pumptrk <u>17</u>	No.	Cementer	<u>Bill</u>	Common <u>183</u>
		Helper		Poz. Mix <u>122</u>
Bulktrk	No.	Driver	<u>Nick</u>	Gel. <u>11</u>
Bulktrk <u>19</u>	No.	Driver		Calcium
		Driver	<u>Bryan +</u>	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <u>30 lbs</u>	Salt
Mouse Hole <u>15 lbs</u>	Flowseal <u>75#</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>3570 - w/ 50 lbs</u>	Sand
<u>1720 w/ 50 lbs</u>	Handling <u>316</u>
<u>930 w/ 100 lbs</u>	Mileage
<u>270 w/ 50 lbs</u>	FLOAT EQUIPMENT
<u>40 w/ 10 lbs</u>	Guide Shoe / Dry Hole plug
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge plug
Mileage 50

X Signature Rye Joach

Thanks

Tax
Discount
Total Charge



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70791

Well Name & No. Lesage #1 Test No. 1 Date 03/19/2023
 Company Blake Exploration LLC Elevation 2112' KB 2104 GL
 Address 801 S Main PO BOX 150 Argue MO 6762510150
 Co. Rep / Geo Mike Daignon Rig Discovery #4
 Location: Sec. 12 Twp 7A Rge. 2W Co. Graham State MO

Interval Tested 3267' - 3280' Zone Tested Topeka
 Anchor Length 13' Drill Pipe Run 3226' Mud Wt. 8.6
 Top Packer Depth 3262' Drill Collars Run 30' Vis 78
 Bottom Packer Depth 3267' Wt. Pipe Run - WL 6.8
 Total Depth 3280' Chlorides 1000 ppm System LCM 2#

Blow Description 17.5' of soft fill, additional 2' of slide; BCB 14 mins; Built to 24 1/2"
DSB - Surface to 4"
77 - BCB 15 mins; Built to 47"
FD - Surface to 1/2"

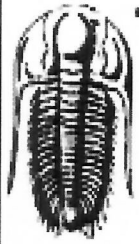
Rec	Feet of	%gas	%oil	%water	%mud
540	MCO		95	5	
	1000' GIP	100			

Rec Total 540' BHT 105° Gravity - API RW .148 @ 40° F Chlorides 98,000 ppm
 Initial Hydrostatic 1587 Test 1800 Ruined Shale Packer
 Initial Flow 23 to 115 Jars Ruined Packer
 Initial Shut-In 589 Circ Sub Hotel
 Final Flow 115 to 269 Hourly Standby EM Tool Successful
 Final Shut-In 558 Mileage 62027 59mi 103.25 Accessibility -350
 Final Hydrostatic 1502 18mi 31.50 Sampler Gas Sample
 T-On Location 21:35 Straddle Oversized Hole
 Initial Flow 30 T-Started 00:11 Shale Packer Sub Total -350
 Initial Shut-In 30 T-Open 02:19 Extra Packer Total 1584.75
 Final Flow 60 T-Pulled 05:19 Extra Recorder Tool Loaded @
 Final Shut-In 60 T-Out 07:30 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative Spencer J. Stal - Thanks!

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 785-259-0056



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration LLC

12-7s-21w Graham KS

201 S Main
PO BOX 150
Bogue KS 67625+0150
ATTN: Mike Davignon

Lesage #1

Job Ticket: 70791

DST#: 1

Test Start: 2023.03.20 @ 00:11:01

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:23:12
 Time Test Ended: 07:51:27
 Interval: **3267.00 ft (KB) To 3280.00 ft (KB) (TVD)**
 Total Depth: 3280.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2112.00 ft (KB)
 2104.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875

Outside

Press@RunDepth: 269.94 psig @ 3268.00 ft (KB)

Capacity: psig

Start Date: 2023.03.20 End Date: 2023.03.20

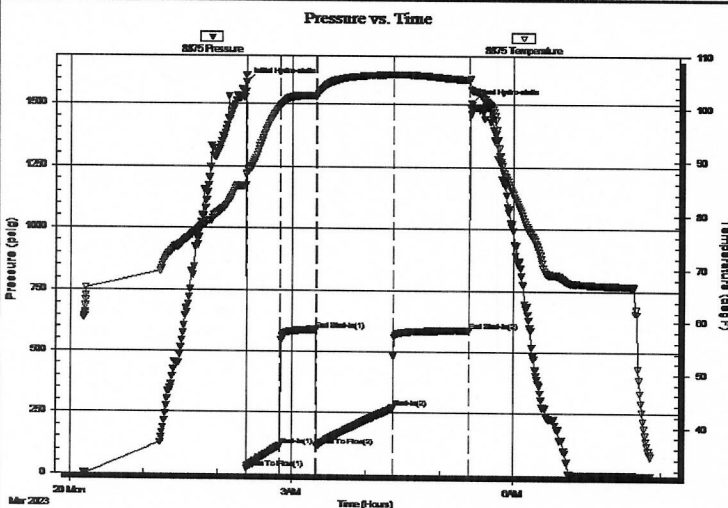
Last Calib.: 2023.03.20

Start Time: 00:11:01 End Time: 07:51:26

Time On Btm: 2023.03.20 @ 02:22:57

Time Off Btm: 2023.03.20 @ 05:25:42

TEST COMMENT: 30-IF-5' soft fill 2' of Slide BOB 14 mins Built to 24.5"
 30-ISI-Surface to 1/4"
 60-FF-BOB 15 mins Built to 47"
 60-FS-Surface to 1/2"



PRESSURE SUMMARY

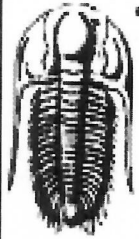
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.14	87.84	Initial Hydro-static
1	23.44	87.81	Open To Flow (1)
28	115.90	100.44	Shut-In(1)
57	589.66	102.31	End Shut-In(1)
58	115.78	102.27	Open To Flow (2)
119	269.94	106.50	Shut-In(2)
182	588.18	105.48	End Shut-In(2)
183	1502.54	103.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	MCW 5%M 95%W	7.38
0.00	1000 GIP 100%G	0.00
0.00	RW=.148@40F	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration LLC

12-7s-21w Graham KS

201 S Main
PO BOX 150
Bogue KS 67625+0150
ATTN: Mike Davignon

Lesage #1

Job Ticket: 70791

DST#: 1

Test Start: 2023.03.20 @ 00:11:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 78.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 98000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	MCW 5%M 95%W	7.377
0.00	1000 GIP 100%G	0.000
0.00	RW=.148@40F	0.000

Total Length: 540.00 ft

Total Volume: 7.377 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

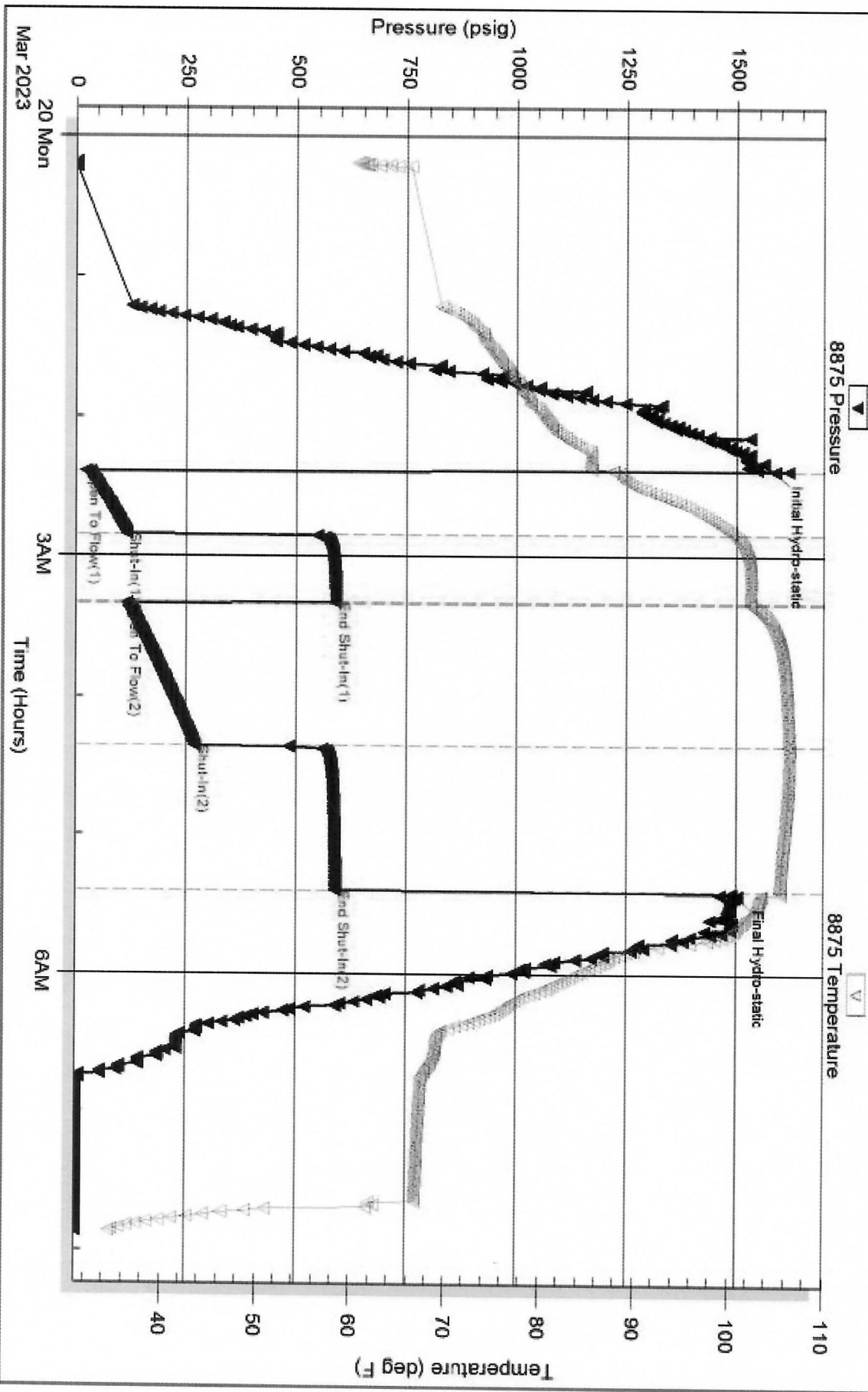
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time



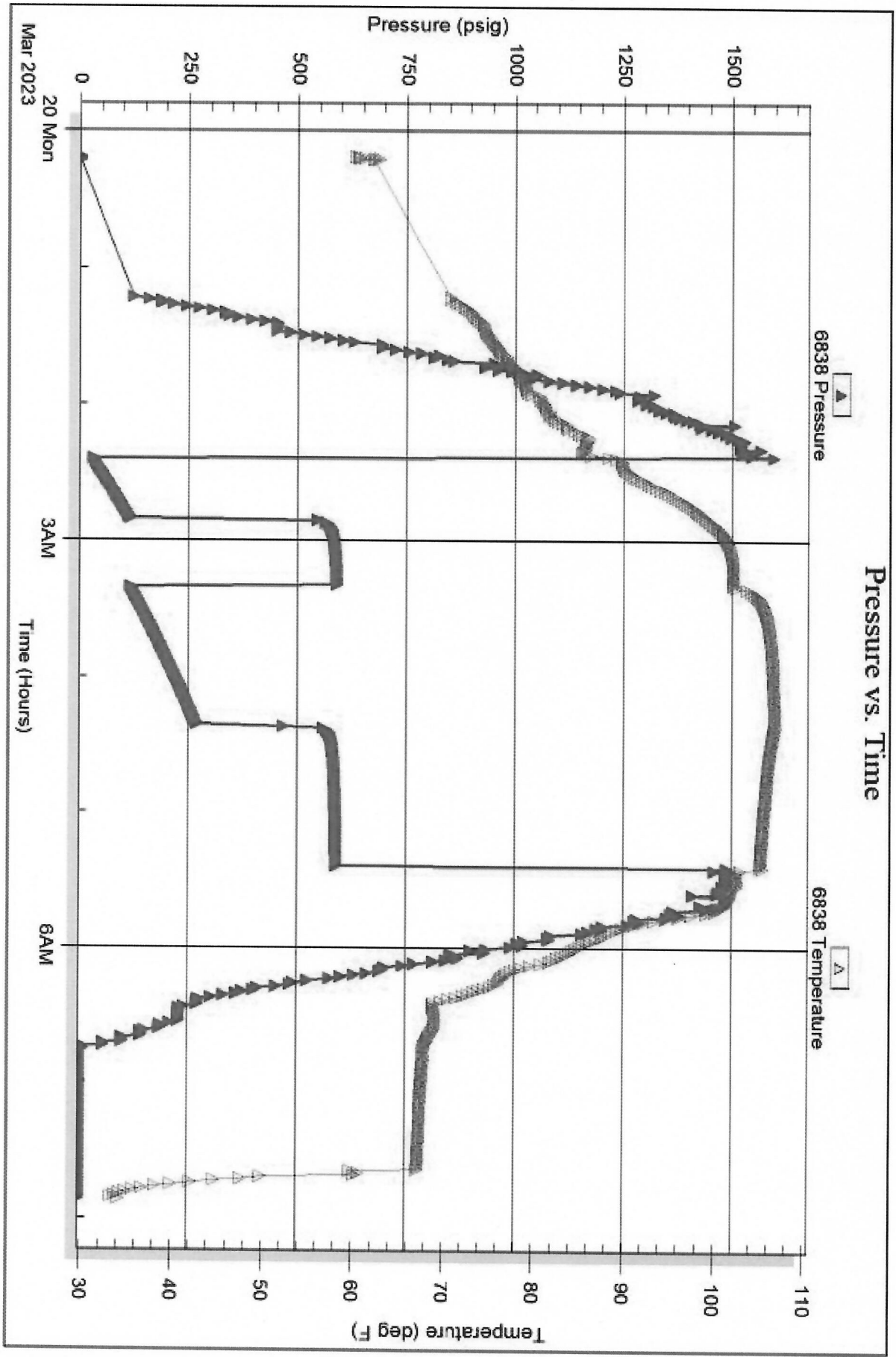
Serial #: 6838

Inside

Blake Exploration LLC

Lesage #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70792

Well Name & No. Le Sage #1 Test No. 2 Date 03/20/2023
 Company Blake Exploration LLC Elevation 2112 KB 2104 GL
 Address 201 S Main PO BOX 0150 Bogue MO 67625-0150
 Co. Rep / Geo Mike Davignon Rig Discovery #4
 Location: Sec. 21 Twp 7s Rge. 21w Co. Graham State MO

Interval Tested 3293' - 3345' Zone Tested Top - LLC A
 Anchor Length 52' Drill Pipe Run 3256' Mud Wt. 8.6
 Top Packer Depth 3288' Drill Collars Run 30' Vis 62
 Bottom Packer Depth 3293' Wt. Pipe Run - WL 6.8
 Total Depth 3345' Chlorides 1000 ppm System LCM 2#

Blow Description 17- Slid 5'; Bld off 2" Blow, surface to 4"
1SD - No Return
77- Very Weak Surface; Died @ 4 mins
7SD - No Return

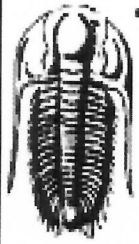
Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 90° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1562 Test 1800 Ruined Shale Packer
 Initial Flow 32 to 34 Jars Ruined Packer
 Initial Shut-In 74 Circ Sub Hotel
 Final Flow 35 to 35 Hourly Standby EM Tool Successful -350
 Final Shut-In 37 Mileage 4027 36mi 63 Accessibility
 Final Hydrostatic 1559 Sampler Gas Sample
 T-On Location 15:05 Straddle Oversized Hole
 Initial Flow 30 T-Started 16:01 Shale Packer Sub Total -350
 Initial Shut-In 30 T-Open 17:48 Extra Packer Total 1513
 Final Flow 10 T-Pulled 19:03 Extra Recorder Tool Loaded @
 Final Shut-In 5 T-Out 20:27 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative Spencer J. Stead - Thanks!

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 785-259-0056



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration LLC

12-7s-21w Graham KS

201 S Main
PO BOX 150
Bogue KS 67625+0150
ATTN: Mike Davignon

Lesage #1

Job Ticket: 70793

DST#: 3

Test Start: 2023.03.21 @ 03:45:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:40:22

Time Test Ended: 08:12:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: **3353.00 ft (KB) To 3377.00 ft (KB) (TVD)**

Total Depth: 3377.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2112.00 ft (KB)

2104.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8875

Outside

Press@RunDepth: 32.37 psig @ 3354.00 ft (KB)

Start Date: 2023.03.21

End Date:

2023.03.21

Capacity:

psig

Start Time: 03:45:01

End Time:

08:12:17

Last Calib.:

2023.03.21

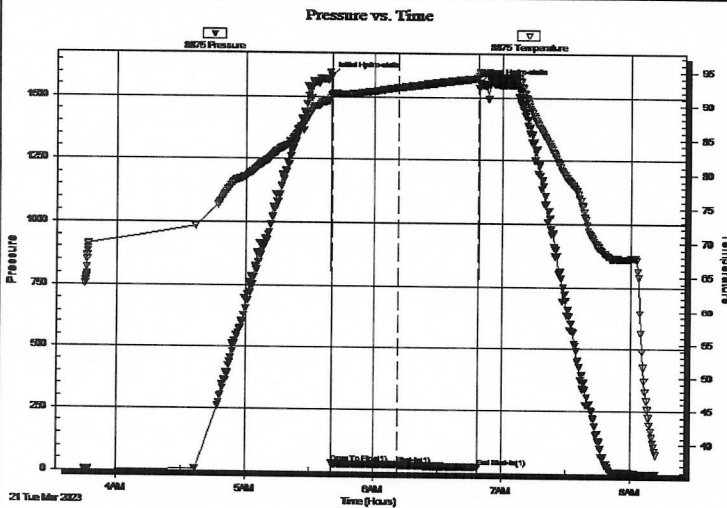
Time On Btm:

2023.03.21 @ 05:40:02

Time Off Btm:

2023.03.21 @ 06:49:17

TEST COMMENT: 30-IF-Slid 4' Bled off 1.5" Blow Surface to 1/2"
30-ISI-No Return
Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.12	91.49	Initial Hydro-static
1	33.65	91.46	Open To Flow (1)
31	32.37	92.61	Shut-In(1)
69	22.59	94.10	End Shut-In(1)
70	1559.17	95.04	Final Hydro-static

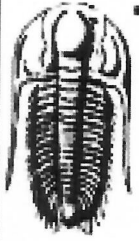
Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud 100%M	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration LLC

12-7s-21w Graham KS

201 S Main
PO BOX 150
Bogue KS 67625+0150
ATTN: Mike Davignon

Lesage #1

Job Ticket: 70793

DST#: 3

Test Start: 2023.03.21 @ 03:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud 100%M	0.289

Total Length: 40.00 ft Total Volume: 0.289 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

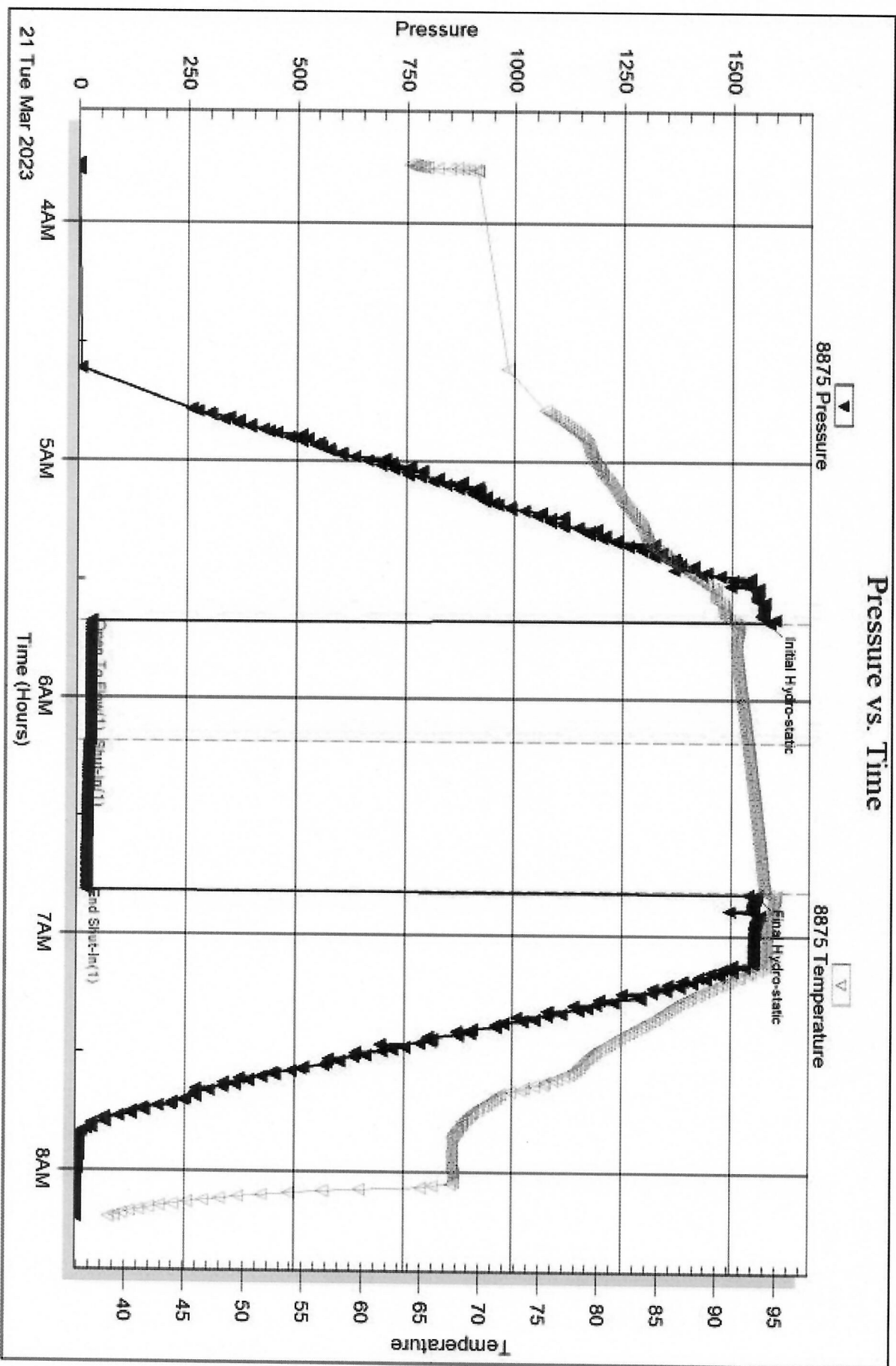
Recovery Comments: 2#LCM

Serial #: 8875

Outside Blake Exploration LLC

Lesage #1

DST Test Number: 3



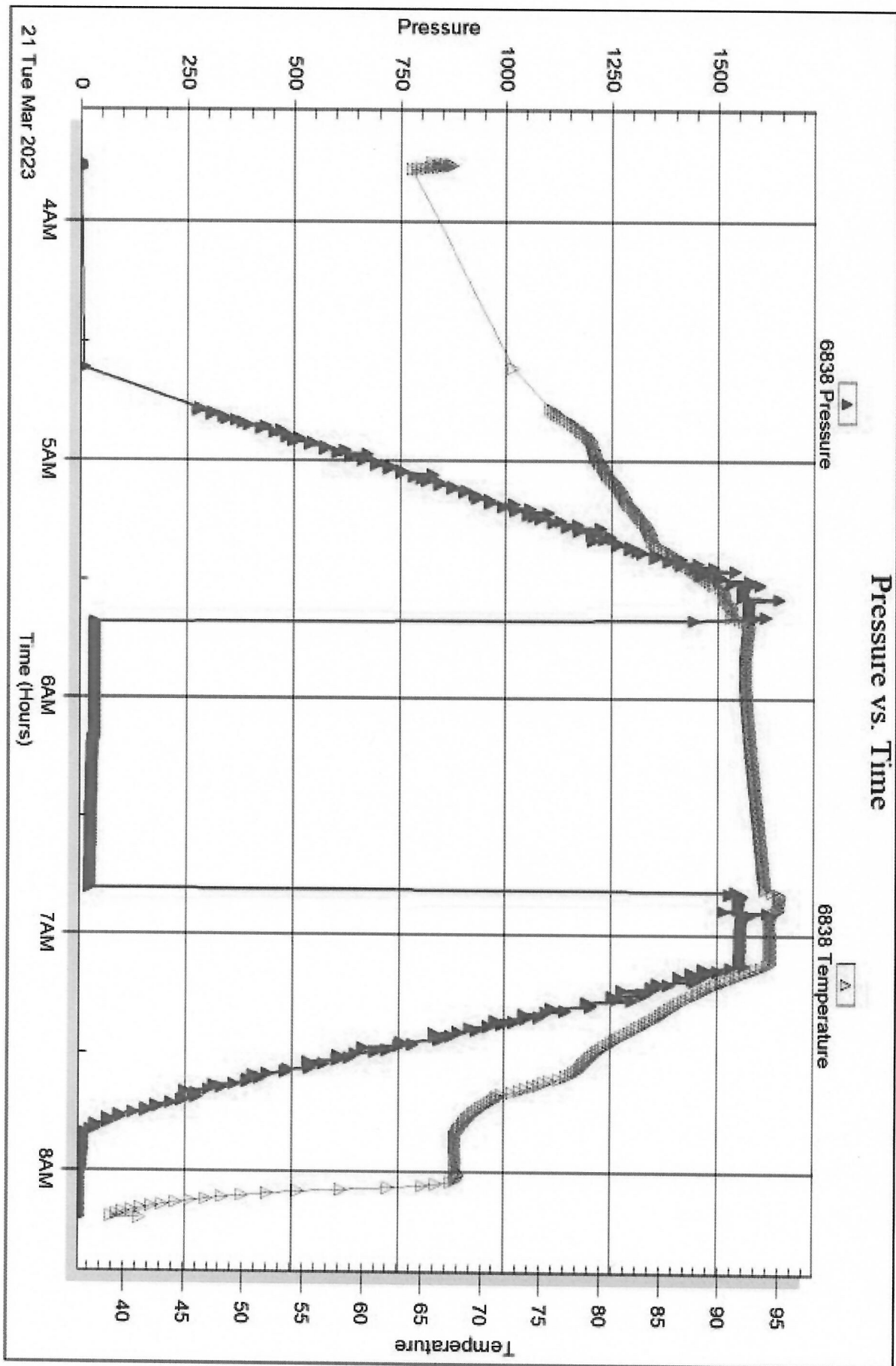
Serial #: 6838

Inside

Blake Exploration LLC

Lesage #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 70793

Printed: 2023 03 21 @ 08:19:12



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70793

Well Name & No. Dr. Sage #1 Test No. 3 Date 03/21/2023
 Company Blake Exploration LLC Elevation 2112 KB 2104 GL
 Address 201 S. Main PO BOX 150 Rogue KS 67625-0150
 Co. Rep / Geo Mike Davignon Rig Discovery #4
 Location: Sec. 12 Twp 7S Rge. 2W Co. Graham State KS

Interval Tested 3353' - 3377' Zone Tested LHC C
 Anchor Length 24' Drill Pipe Run 3.318' Mud Wt. 8.6
 Top Packer Depth 3348' Drill Collars Run .30' Vis 62
 Bottom Packer Depth 3353' Wt. Pipe Run - WL 6.8
 Total Depth 3377' Chlorides 1000 ppm System LCM 2#
 Blow Description 17-Surface to 1/2" ; Tool slid 4' ; Blid off a 1.5" Blow
150-No Return
Pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>40'</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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40' BHT 95° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1584 Test 1800 Ruined Shale Packer
 Initial Flow 33 to 32 Jars Ruined Packer
 Initial Shut-In 22 Circ Sub Hotel
 Final Flow - to - Hourly Standby EM Tool Successful -350
 Final Shut-In - Mileage 4077 63 Accessibility
 Final Hydrostatic 1559 Sampler Gas Sample
 T- On Location 02:10 Straddle Oversized Hole
 Initial Flow 30 T-Started 08:45 Shale Packer Sub Total -350
 Initial Shut-In 30 T-Open 05:38 Extra Packer Total 1513
 Final Flow - T-Pulled 06:38 Extra Recorder Tool Loaded @
 Final Shut-In - T-Out 08:10 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative Spencer J. Steel Thanks!

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.

785-259-0056



DRILL STEM TEST REPORT

Prepared For: **Blake Exploration LLC**

PO Box 150
Bogue KS 67625+0150

ATTN: Mike Davignon

Lesage #1

12-7s-21w Graham KS

Start Date: 2023.03.20 @ 16:01:00

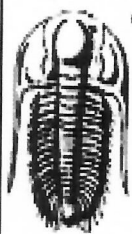
End Date: 2023.03.20 @ 20:28:56

Job Ticket #: 70792 DST #: 2

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

Printed: 2023.03.22 @ 17:04:01

Blake Exploration LLC
12-7s-21w Graham KS
Lesage #1
DST # 2
Toronto - LKC A
2023.03.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blake Exploration LLC
 PO Box 150
 Bogue KS 67625+0150
 ATTN: Mike Davignon

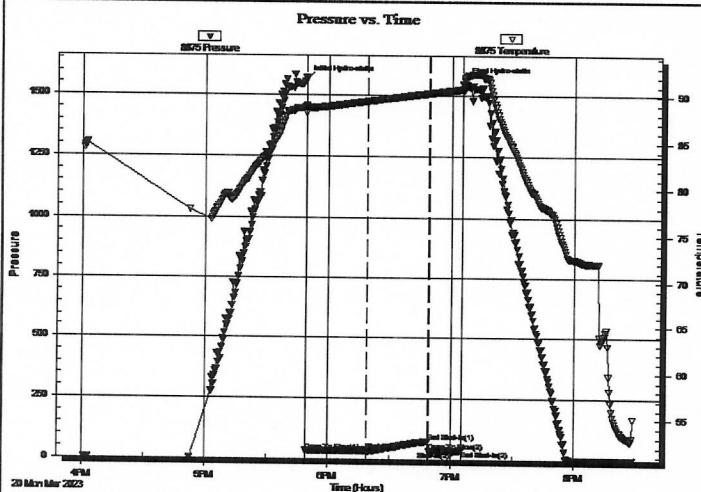
12-7s-21w Graham KS
Lesage #1
 Job Ticket: 70792 DST#: 2
 Test Start: 2023.03.20 @ 16:01:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:49:17
 Time Test Ended: 20:28:56
 Interval: **3293.00 ft (KB) To 3345.00 ft (KB) (TVD)**
 Total Depth: 3280.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2112.00 ft (KB)
 2104.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
 Press@RunDepth: 35.18 psig @ 3296.00 ft (KB) Capacity: psig
 Start Date: 2023.03.20 End Date: 2023.03.20 Last Calib.: 2023.03.20
 Start Time: 16:01:01 End Time: 20:28:56 Time On Btm: 2023.03.20 @ 17:49:07
 Time Off Btm: 2023.03.20 @ 19:06:17

TEST COMMENT: 30-IF-Slid 5' Bled off 2" Blow Surface to 1/4"
 30-ISI-No Return
 10-FF-Very Weak Surface Died in 4 mins
 Shut In Tool and Tripped Out



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.42	88.95	Initial Hydro-static
1	32.18	88.19	Open To Flow (1)
30	34.64	89.46	Shut-In(1)
60	74.65	90.32	End Shut-In(1)
61	35.78	90.32	Open To Flow (2)
71	35.18	90.61	Shut-In(2)
77	37.19	90.78	End Shut-In(2)
78	1559.25	91.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration LLC
 PO Box 150
 Bogue KS 67625+0150
 ATTN: Mike Davignon

12-7s-21w Graham KS
Lesage #1
 Job Ticket: 70792 **DST#: 2**
 Test Start: 2023.03.20 @ 16:01:00

Tool Information

Drill Pipe:	Length: 3256.00 ft	Diameter: 3.82 inches	Volume: 46.16 bbl	Tool Weight: 2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 daN
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 51000.00 daN
Depth to Top Packer:	3293.00 ft			Final 51000.00 daN
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Gap Sub	4.00			3281.00	
Safety Joint	3.00			3284.00	
Packer	5.00			3289.00	27.00 Bottom Of Top Packer
Packer	4.00			3293.00	
Stubb	1.00			3294.00	
Perforations	1.00			3295.00	
Change Over Sub	1.00			3296.00	
Recorder	0.00	6838	Inside	3296.00	
Recorder	0.00	8875	Inside	3296.00	
Drill Pipe	32.00			3328.00	
Change Over Sub	1.00			3329.00	
Perforations	13.00			3342.00	
Bullnose	3.00			3345.00	52.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration LLC

12-7s-21w Graham KS

PO Box 150
Bogue KS 67625+0150

Lesage #1

Job Ticket: 70792

DST#: 2

ATTN: Mike Davignon

Test Start: 2023.03.20 @ 16:01:00

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

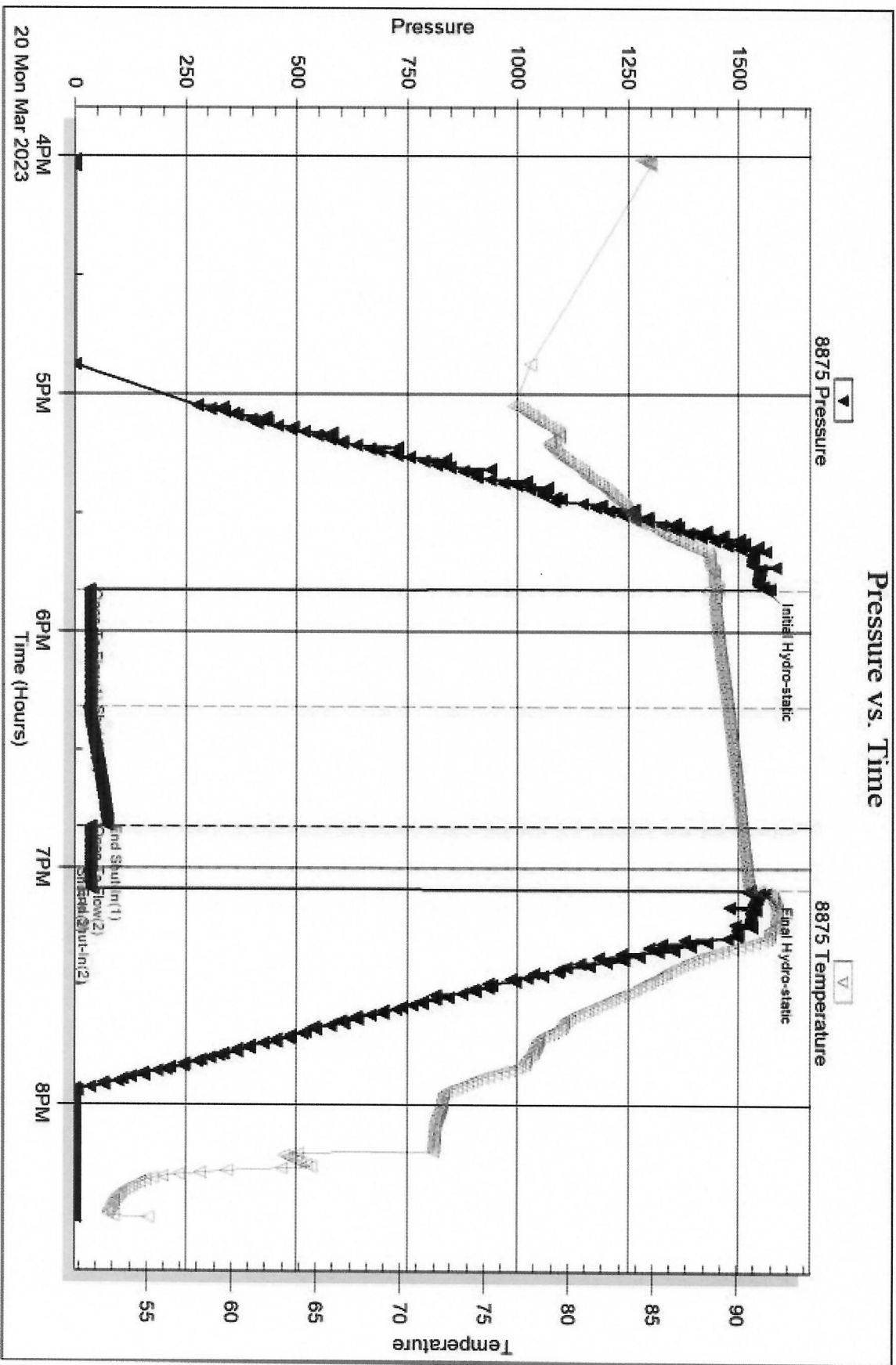
Serial #: 8875

Inside

Blake Exploration LLC

Lesage #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70794

Well Name & No. La Sage #1 Test No. 4 Date 03/21/2023
 Company Blake Exploration LLC Elevation 2112 KB 2104 GL
 Address 201 S Main PO BOX 150 Bogue KS 67625 + 0150
 Co. Rep / Geo Mike Davignon Rig Discovery #4
 Location: Sec. 12 Twp 7s Rge. 21w Co. Franklin State Ks

Interval Tested 3470' - 3530' Zone Tested LAC A, J, K, L
 Anchor Length 60' Drill Pipe Run 3446' Mud Wt. 8.8
 Top Packer Depth 3465' Drill Collars Run 30' Vis 52
 Bottom Packer Depth 3470' Wt. Pipe Run - WL 6.8
 Total Depth 3530' Chlorides 1200 ppm System LCM 2#

Blow Description 17- Surface; Dried @ 10 mins
15d - No Return
47 - No Blow
48 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 97° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1661 Test 1800 Ruined Shale Packer
 Initial Flow 15 to 17 Jars Ruined Packer
 Initial Shut-In 5.2 Circ Sub Hotel
 Final Flow 18 to 21 Hourly Standby EM Tool Successful
 Final Shut-In .51 Mileage 408762 63 Accessibility
 Final Hydrostatic 1651 31.50 + 103.25 Gas Sample
 T- On Location 19:40 Straddle Oversized Hole
 Initial Flow 15 T-Started 19:55 Shale Packer Sub Total 0
 Initial Shut-In 15 T-Open 22:00 Extra Packer Total 1997.75
 Final Flow 15 T-Pulled 23:00 Extra Recorder Tool Loaded 03/22 @ 08:30
 Final Shut-In 15 T-Out 00:37 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative Spencer J. Good Thanks!

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.

785-259-0056



DRILL STEM TEST REPORT

Prepared For: **Blake Exploration LLC**

PO Box 150
Bogue KS 67625+0150

ATTN: Mike Davignon

Lesage #1

12-7s-21w Graham KS

Start Date: 2023.03.21 @ 19:55:00

End Date: 2023.03.22 @ 00:39:37

Job Ticket #: 70794 DST #: 4

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

Printed: 2023.03.22 @ 16:59:43

Blake Exploration LLC
12-7s-21w Graham KS
Lesage #1
DST # 4
LKC 1-L
2023.03.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration LLC
PO Box 150
Bogue KS 67625+0150
ATTN: Mike Davignon

12-7s-21w Graham KS
Lesage #1
Job Ticket: 70794 **DST#: 4**
Test Start: 2023.03.21 @ 19:55:00

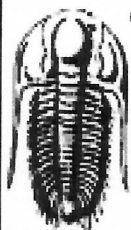
Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.82 inches	Volume: 48.85 bbl	Tool Weight: 2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 daN
		Total Volume: - bbl		Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 51000.00 daN
Depth to Top Packer:	3470.00 ft			Final 51000.00 daN
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3444.00	
Shut In Tool	5.00			3449.00	
Hydraulic tool	5.00			3454.00	
Gap Sub	4.00			3458.00	
Safety Joint	3.00			3461.00	
Packer	5.00			3466.00	27.00 Bottom Of Top Packer
Packer	4.00			3470.00	
Stubb	1.00			3471.00	
Perforations	1.00			3472.00	
Change Over Sub	1.00			3473.00	
Recorder	0.00	6838	Inside	3473.00	
Recorder	0.00	8875	Inside	3473.00	
Drill Pipe	32.00			3505.00	
Change Over Sub	1.00			3506.00	
Perforations	21.00			3527.00	
Bullnose	3.00			3530.00	60.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration LLC

12-7s-21w Graham KS

PO Box 150
Bogue KS 67625+0150

Lesage #1

Job Ticket: 70794

DST#: 4

ATTN: Mike Davignon

Test Start: 2023.03.21 @ 19:55:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM

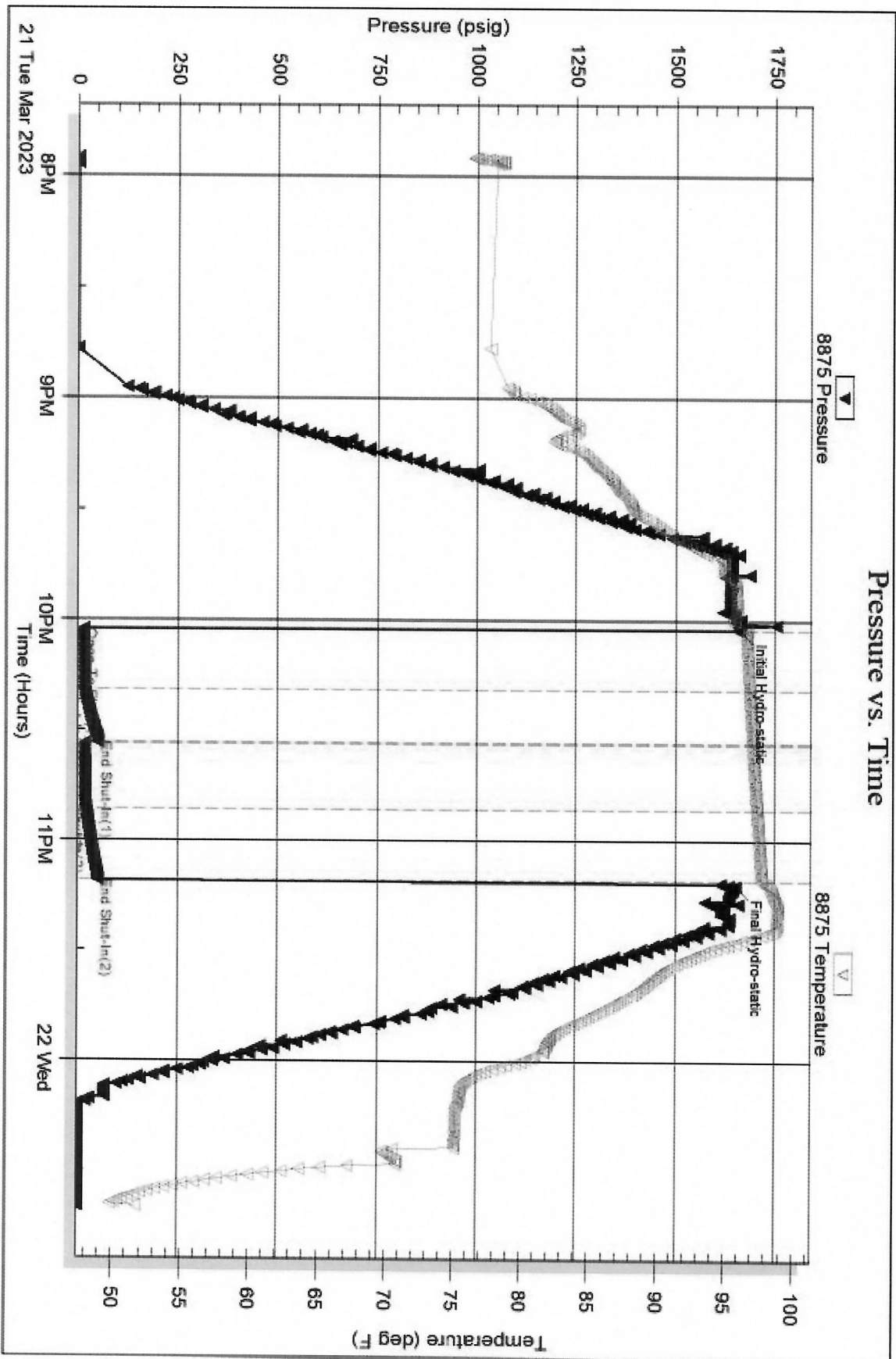
Serial #: 8875

Inside

Blake Exploration LLC

Lesage #1

DST Test Number: 4



Serial #: 6838

Inside

Blake Exploration LLC

Lesage #1

DST Test Number: 4

