

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](mailto: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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Form	ACO1 - Well Completion
Operator	Talon Group LLC
Well Name	HINEMAN R 1-20
Doc ID	1594560

Tops

Name	Top	Datum
Anhydrite	2134	+667
Heebner	3981	-1179
Lansing	4023	-1221
Muncie	4202	-1400
Stark	4303	-1501
Hush	4336	-1534
Pleasanton	4390	-1584
Marmaton	4406	-1604
Pawnee	4503	-1701
Miss	4646	-1844





CHARGE TO: **Talco Group**  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET **35147**

PAGE **1** OF **2**

1. SERVICE LOCATIONS Ness City, Ks	WELL/PROJECT NO. 1-20	LEASE HAWKMAN R	COUNTY/PARISH LAWIE	STATE Ks	CITY	DATE 9-10-2021	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Southwind Drilling	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO Location	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY Development	JOB PURPOSE Cenest 4 1/2" Longstring	WELL PERMIT NO.		WELL LOCATION S/Denton, Ks	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 115	40	mi			600	240.00
578		1			PUMP CHARGE - LONGSTRING	1	job	4649	ft	1500.00	1500.00
221		1			brand Kcl	2	gal			25.00	50.00
281		1			MUDFISH	500	gal			1.50	750.00
419		1			ROTARIE HEAD RENTAL	1	job	4 1/2"		250.00	250.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 X

DATE SIGNED: 9-10-2021 TIME SIGNED: 1900  A.M.  P.M.

**REMIT PAYMENT TO:**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 CUSTOMER DID NOT WISH TO RESPOND

**PAGE TOTAL**  
 #1 2790.00  
 #2 8349.50  
 TAX 574  
 Land 634.01  
 TOTAL 11973.51

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *Mavis Watson* APPROVAL: \_\_\_\_\_

Thank You!



Services, Inc.

PO Box 466  
Ness City, KS 67560  
Of: 785-798-2300

TICKET CONTINUATION

TICKET No. 35147

CUSTOMER (ALON) Group  
WELL HENEMAN R 1-20  
DATE 9-10-2021  
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM		
325		1				STANDARD Cement (EA-2)	225	SKS	14.50	3262.50
276		1				FLOCELE	50	LBS	3.00	150.00
277		1				COAL SEAL (EISSMME)	1150	LBS	1.25	1437.50
283		1				SALT	1150	LBS	.25	287.50
284		1				CALSEAL	1100	LBS	40.00	4400.00
290		1				D-ADR	3	GAL	42.00	126.00
292		1				HAWAB - 322	200	LBS	8.50	1700.00
						SERVICE CHARGE			2.00	450.00
						MILEAGE CHARGE			1.00	496.00
581		1								
583		1								

CONTINUATION TOTAL 8349.50



JOB LOG

SWIFT Services, Inc.

DATE 9-10-2021 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
TALON GROUP		1-20		HIZEMAN R		4 1/2" LONGSTROKE		35147	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1900								ON LOCATION
									TD - 4652 SET = 4649
									TP - 4652 4 1/2" #/FT 11.6
									SJ - 42'
									PORT COLLAR - 2121
	2240								DROP BALL - CIRCULATE ROTATE
	2345	6	12		✓		450		PUMP 500 GAL MUD FLUSH
	2347	6	20		✓		450		PUMP 20 BBLs KCL-FLUSH
	2400		7-5						PLUG RH (30SKS) MH (20SKS)
	0015	4	6		✓		250		MAX CEMENT - LD - 25 SKS EA-2 (NO COAL SEAL)
		4	38		✓		100		TL - 150 SKS EA-2 (WITH COAL SEAL)
	0030								WASH OUT PUMP - LINES
	0030								RELEASE LATCH DOWN PLUG
	0035	6 1/2	0		✓				DISPLACE PLUG
		6	70		✓		650		
	0047	4	71.5		✓		1500		PLUG DOWN - PSI UP LATCH IN PLUG
	0055						OK		RELEASE PSI - HELD
									WASH TRUCK
	0200								JOB COMPLETE
									THANK YOU
									WAYNE, PRESTON, ISAAC



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 676673

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 08:05:00

## GENERAL INFORMATION:

Formation: **LKC " I "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:20

Time Test Ended: 13:35:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

**Interval: 4239.00 ft (KB) To 4262.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4262.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 24.15 psig @ 4240.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.05 End Date: 2021.09.05

Last Calib.: 2021.09.05

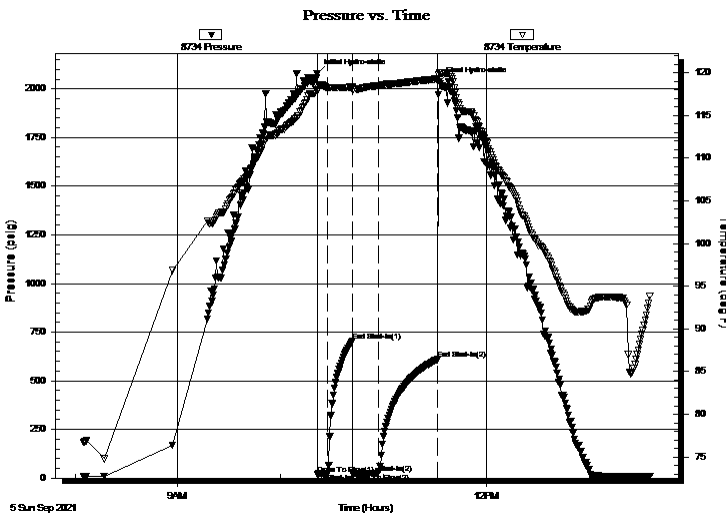
Start Time: 08:05:01 End Time: 13:35:40

Time On Btm: 2021.09.05 @ 10:21:10

Time Off Btm: 2021.09.05 @ 11:32:40

**TEST COMMENT:** 5-IF-S.blow built to 1/4"  
15-ISI-No return  
15-FF-No blow  
30-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.16	118.43	Initial Hydro-static
1	20.96	117.84	Open To Flow (1)
6	22.39	118.22	Shut-In(1)
21	705.44	118.32	End Shut-In(1)
21	23.20	117.97	Open To Flow (2)
36	24.15	118.46	Shut-In(2)
71	609.34	119.26	End Shut-In(2)
72	2038.25	119.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w /Oil spots	0.14

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC  
P.O. Box 700  
Hays, KS 67601  
ATTN: Vern Schrag

**20-19S.-28W. Lane,KS**

**Hineman R # 1-20**

Job Ticket: 676673 **DST#: 1**

Test Start: 2021.09.05 @ 08:05:00

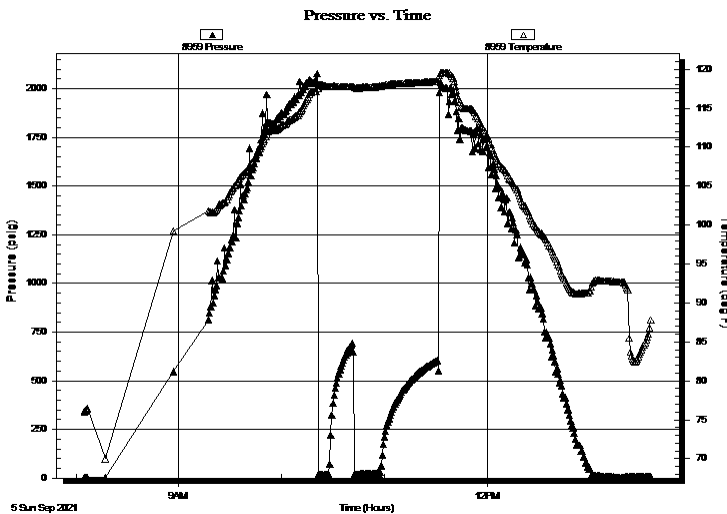
## GENERAL INFORMATION:

Formation: **LKC " I "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:21:20  
Time Test Ended: 13:35:39  
**Interval: 4239.00 ft (KB) To 4262.00 ft (KB) (TVD)**  
Total Depth: 4262.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches  
Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Martine Salinas  
Unit No: 82  
Reference Elevations: 2802.00 ft (KB)  
2792.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8959 Inside**  
Press@RunDepth: psig @ 4240.00 ft (KB)  
Start Date: 2021.09.05 End Date: 2021.09.05  
Start Time: 08:05:01 End Time: 13:35:40  
Capacity: 8000.00 psig  
Last Calib.: 2021.09.05  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 5-IF-S.blow built to 1/4"  
15-ISI-No return  
15-FF-No blow  
30-FSI-No return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w /Oil spots	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 676673

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 08:05:00

## 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: 41.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	100% Mud w /Oil spots	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbf

Num Fluid Samples: 0

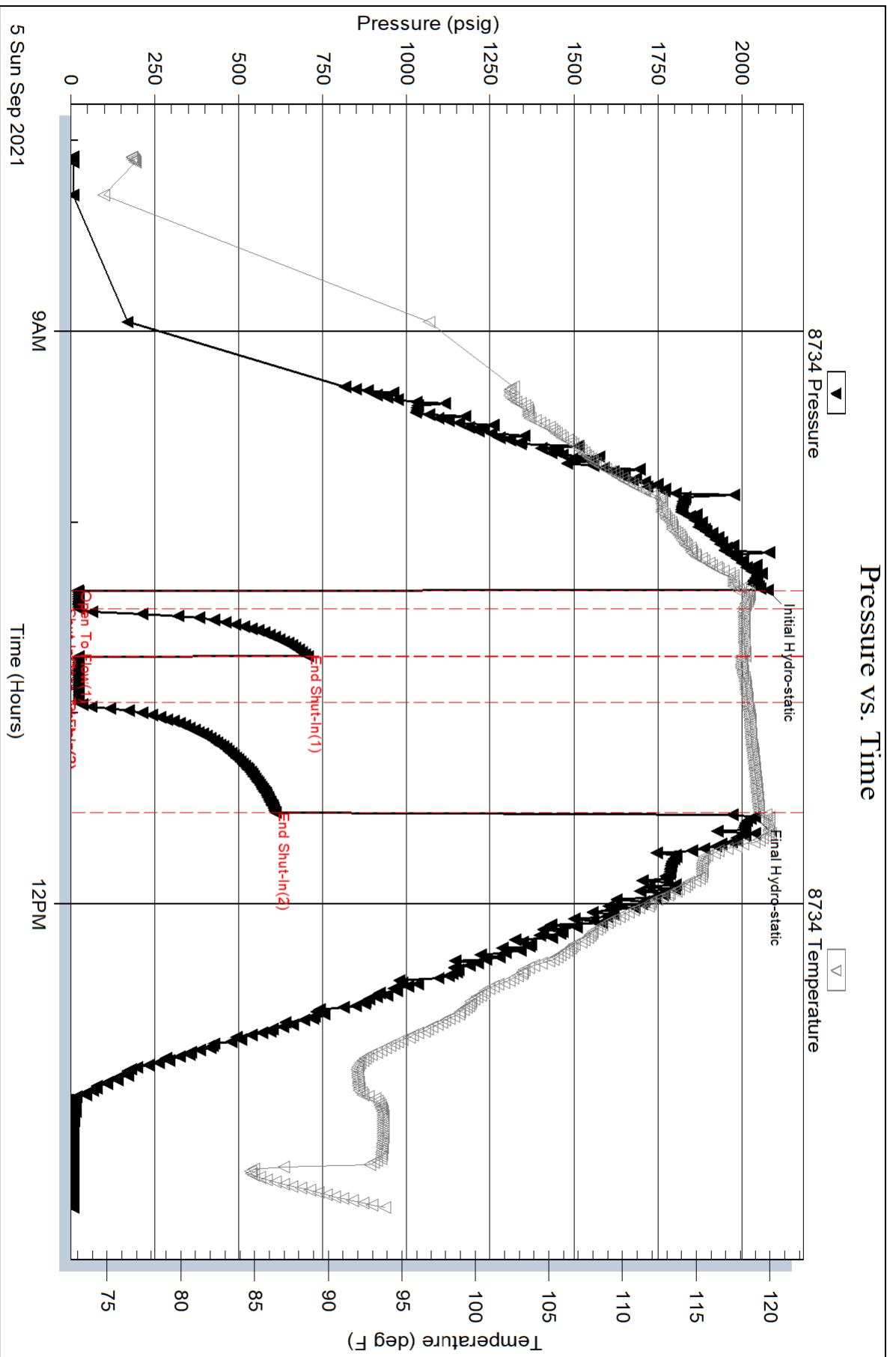
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



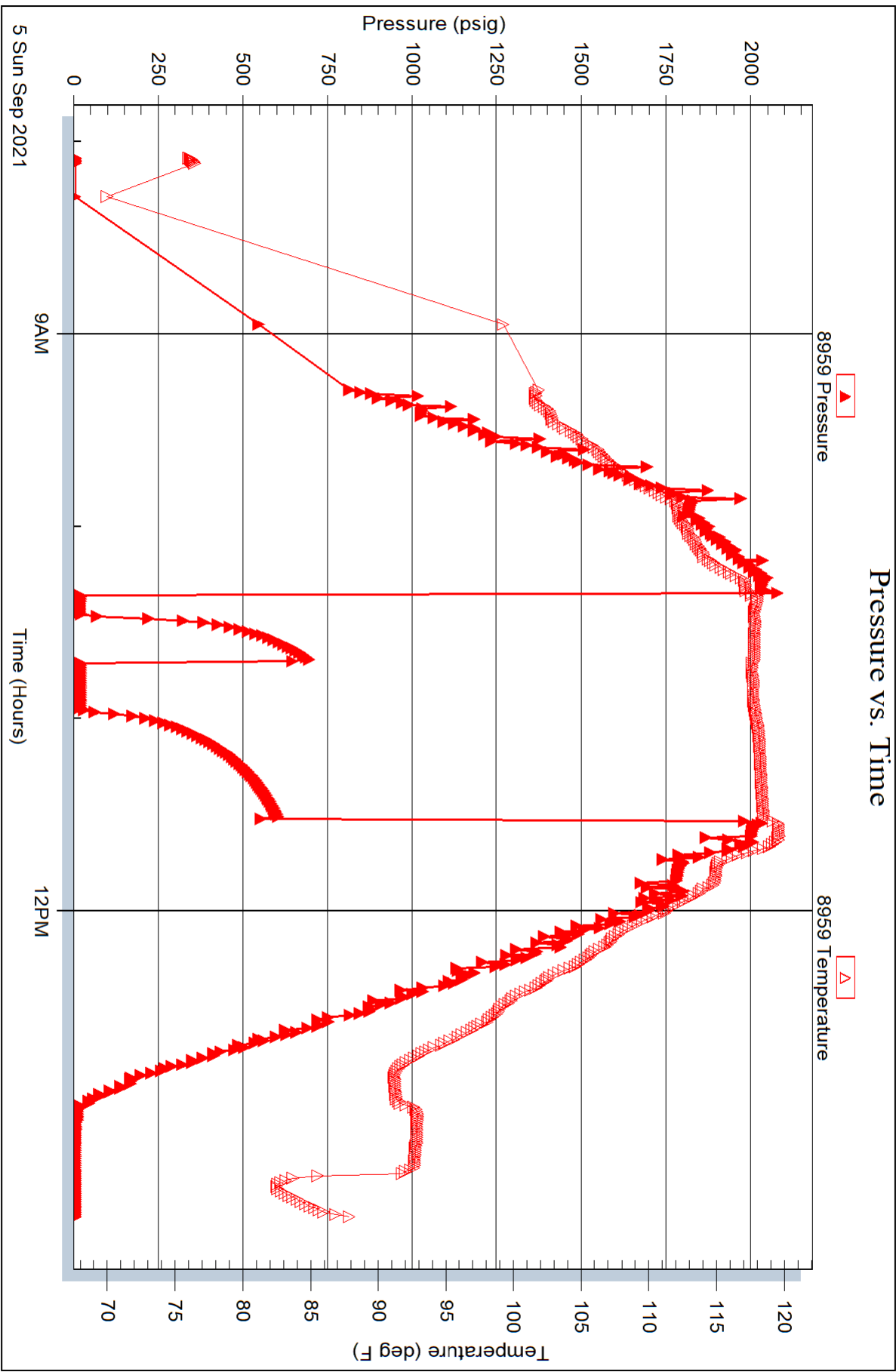
Serial #: 8959

Inside

Talon Group INC

Hineman R # 1-20

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.05 @ 08:05:00

End Date: 2021.09.05 @ 13:35:39

Job Ticket #: 676673                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:34:16



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 676673

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 08:05:00

## GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:20

Time Test Ended: 13:35:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

**Interval: 4239.00 ft (KB) To 4262.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4262.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 24.15 psig @ 4240.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.05 End Date: 2021.09.05

Last Calib.: 2021.09.05

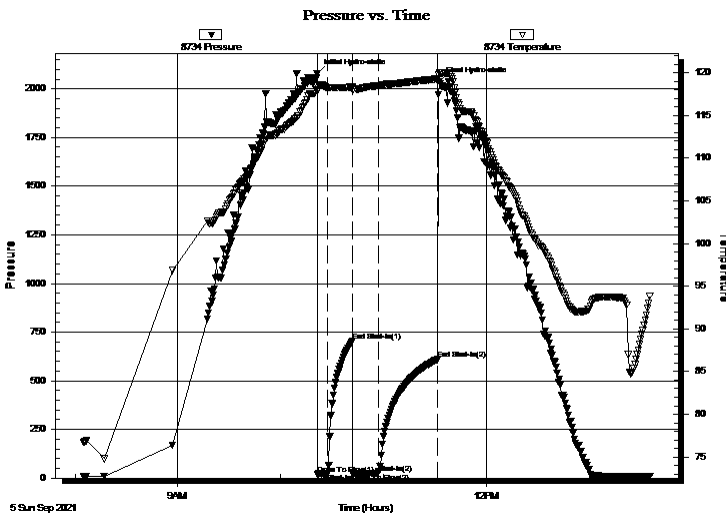
Start Time: 08:05:01 End Time: 13:35:40

Time On Btm: 2021.09.05 @ 10:21:10

Time Off Btm: 2021.09.05 @ 11:32:40

**TEST COMMENT:** 5-IF-Surface blow built to 1/4"  
15-ISI-No return  
15-FF-No blow  
30-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.16	118.43	Initial Hydro-static
1	20.96	117.84	Open To Flow (1)
6	22.39	118.22	Shut-In(1)
21	705.44	118.32	End Shut-In(1)
21	23.20	117.97	Open To Flow (2)
36	24.15	118.46	Shut-In(2)
71	609.34	119.26	End Shut-In(2)
72	2038.25	119.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w /Oil spots	0.14

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 676673

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 08:05:00

## Tool Information

Drill Pipe:	Length: 4226.00 ft	Diameter: 3.80 inches	Volume: 59.28 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4239.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4217.00	
Shut In Tool	5.00			4222.00	
Hydraulic tool	5.00	1113		4227.00	
Safety Joint	3.00	-001		4230.00	
Packer	5.00			4235.00	23.00 Bottom Of Top Packer
Packer	4.00			4239.00	
Stubb	1.00			4240.00	
Recorder	0.00	8959	Inside	4240.00	
Recorder	0.00	8734	Outside	4240.00	
Perforations	17.00			4257.00	
Bullnose	5.00			4262.00	23.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane,KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 676673

**DST#: 1**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 08:05:00

**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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud w /Oil spots	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

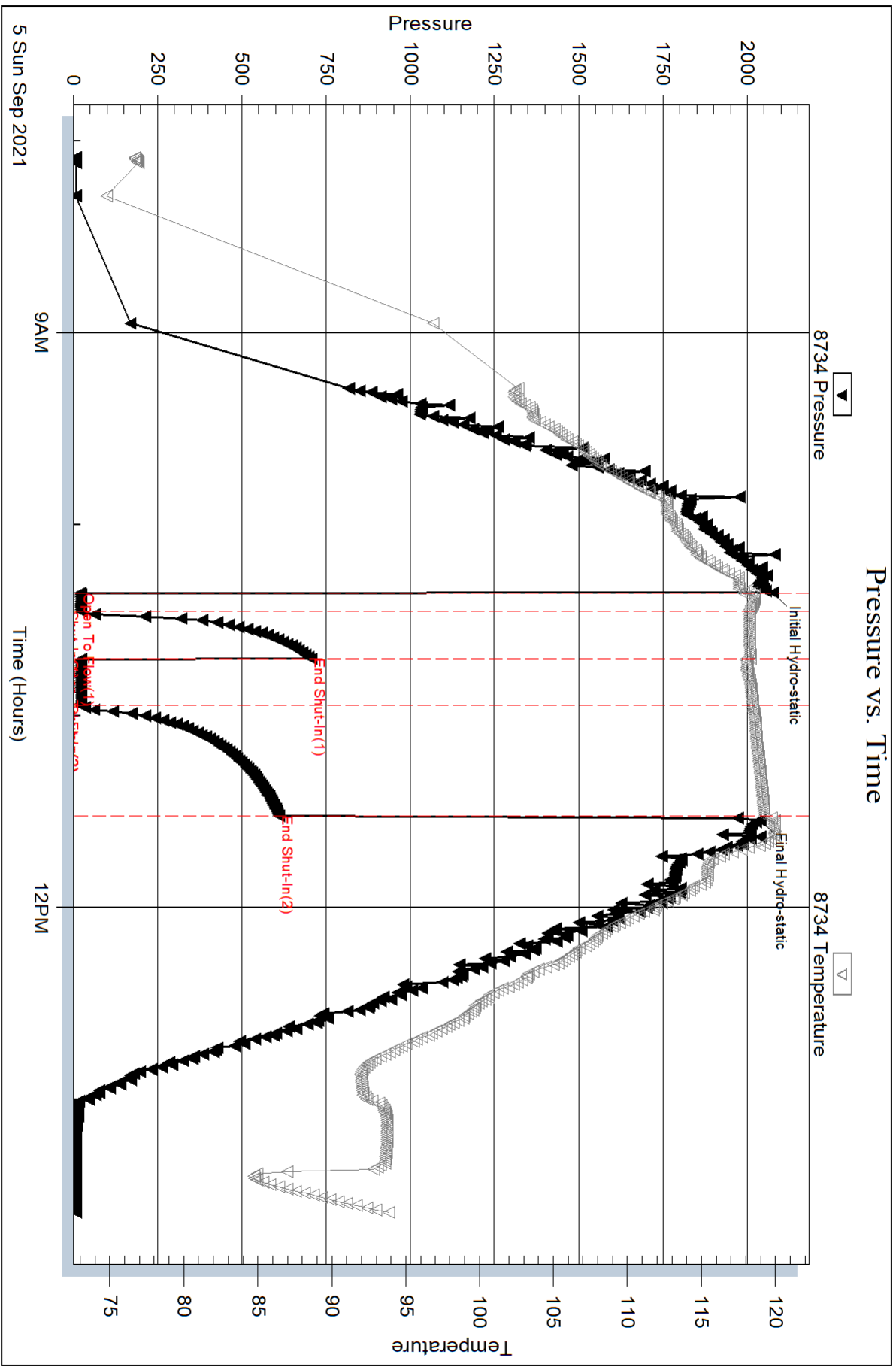
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



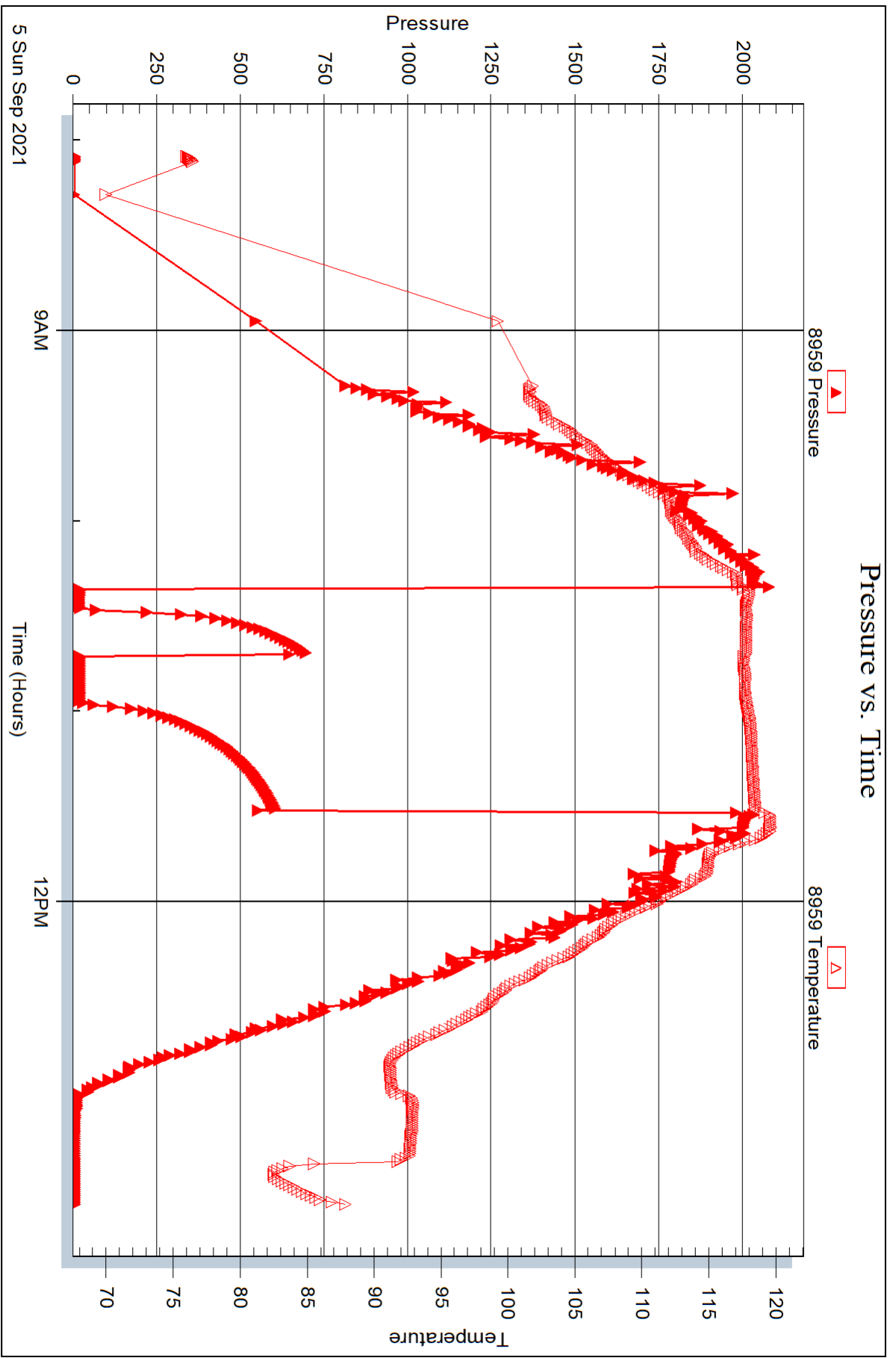
Serial #: 8959

Inside

Talon Group Inc

Hineman R #1-20

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 676673

Printed: 2021.09.10 @ 11:34:18



## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.05 @ 21:10:00

End Date: 2021.09.06 @ 04:33:50

Job Ticket #: 67674                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:33:16





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

20-19S-28W Lane, KS

PO Box 700  
Hays, KS 67601

Hineman R #1-20

ATTN: Vern Schrag

Job Ticket: 67674

DST#: 2

Test Start: 2021.09.05 @ 21:10:00

## GENERAL INFORMATION:

Formation: **LKC " J "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:19:30  
 Time Test Ended: 04:33:50  
 Interval: **4268.00 ft (KB) To 4281.00 ft (KB) (TVD)**  
 Total Depth: 4281.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2802.00 ft (KB)  
 2792.00 ft (CF)  
 KB to GR/CF: 10.00 ft

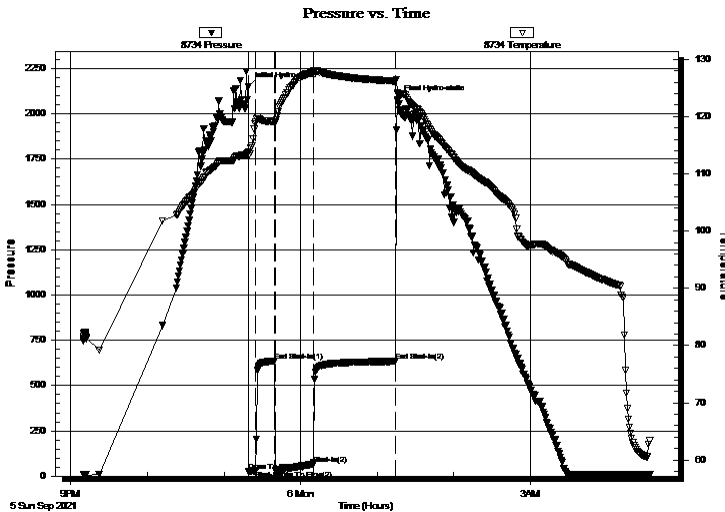
## Serial #: 8734

Outside

Press@RunDepth: 66.64 psig @ 4269.00 ft (KB)  
 Start Date: 2021.09.05 End Date: 2021.09.06  
 Start Time: 21:10:01 End Time: 04:33:50  
 Capacity: 8000.00 psig  
 Last Calib.: 2021.09.06  
 Time On Btm: 2021.09.05 @ 23:19:20  
 Time Off Btm: 2021.09.06 @ 01:16:10

TEST COMMENT: 5-IF-Surface blow to 1 1/2"  
 15-ISI-No return  
 30-FF-Surface blow built to 4"  
 60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.41	113.83	Initial Hydro-static
1	24.56	113.14	Open To Flow (1)
6	31.28	119.06	Shut-In(1)
21	634.72	119.15	End Shut-In(1)
21	31.03	118.94	Open To Flow (2)
51	66.64	127.97	Shut-In(2)
115	633.15	126.18	End Shut-In(2)
117	2079.30	124.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
99.00	SOSMW 2%O, 20%M, 78%W	1.39
1.00	CO 100% O	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc  
 PO Box 700  
 Hays, KS 67601  
 ATTN: Vern Schrag

**20-19S-28W Lane, KS**  
**Hineman R #1-20**  
 Job Ticket: 67674 **DST#: 2**  
 Test Start: 2021.09.05 @ 21:10:00

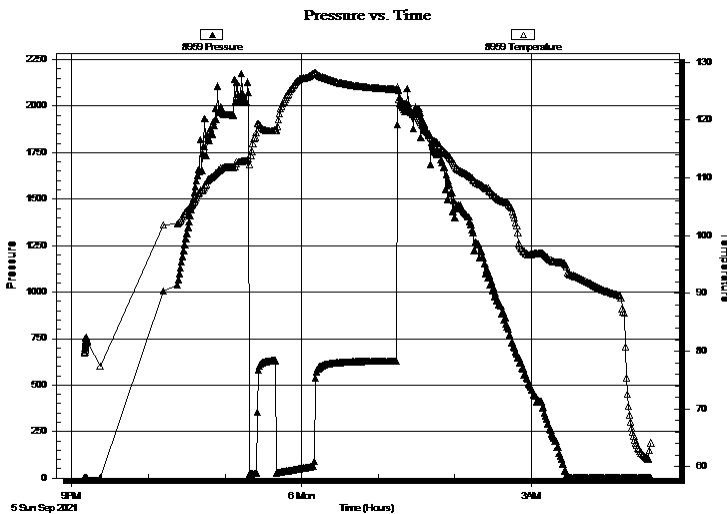
**GENERAL INFORMATION:**

Formation: <b>LKC " J "</b>		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:19:30		Tester: Martine Salinas
Time Test Ended: 04:33:50		Unit No: 82
<b>Interval: 4268.00 ft (KB) To 4281.00 ft (KB) (TVD)</b>		Reference Elevations: 2802.00 ft (KB)
Total Depth: 4281.00 ft (KB) (TVD)		2792.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 10.00 ft

**Serial #: 8959**      **Inside**

Press@RunDepth:                      psig @	4269.00 ft (KB)	Capacity:	8000.00 psig
Start Date:                              2021.09.05	End Date:                              2021.09.06	Last Calib.:	2021.09.06
Start Time:                              21:10:01	End Time:                              04:33:40	Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** 5-IF-Surface blow to 1 1/2"  
 15-ISI-No return  
 30-FF-Surface blow built to 4"  
 60-FSI-No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
99.00	SOSMW 2%O, 20%M, 78%W	1.39
1.00	CO 100% O	0.01

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67674

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 21:10:00

## Tool Information

Drill Pipe:	Length: 4258.00 ft	Diameter: 3.80 inches	Volume: 59.73 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 59.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4268.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	36.00 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			4246.00	
Shut In Tool	5.00			4251.00	
Hydraulic tool	5.00	1113		4256.00	
Safety Joint	3.00	-001		4259.00	
Packer	5.00			4264.00	23.00 Bottom Of Top Packer
Packer	4.00			4268.00	
Stubb	1.00			4269.00	
Recorder	0.00	8959	Inside	4269.00	
Recorder	0.00	8734	Outside	4269.00	
Perforations	7.00			4276.00	
Bullnose	5.00			4281.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 36.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane,KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67674

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 21:10:00

## 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:

31000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
99.00	SOSMW 2%O, 20%M, 78%W	1.389
1.00	CO 100% O	0.014

Total Length: 100.00 ft      Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

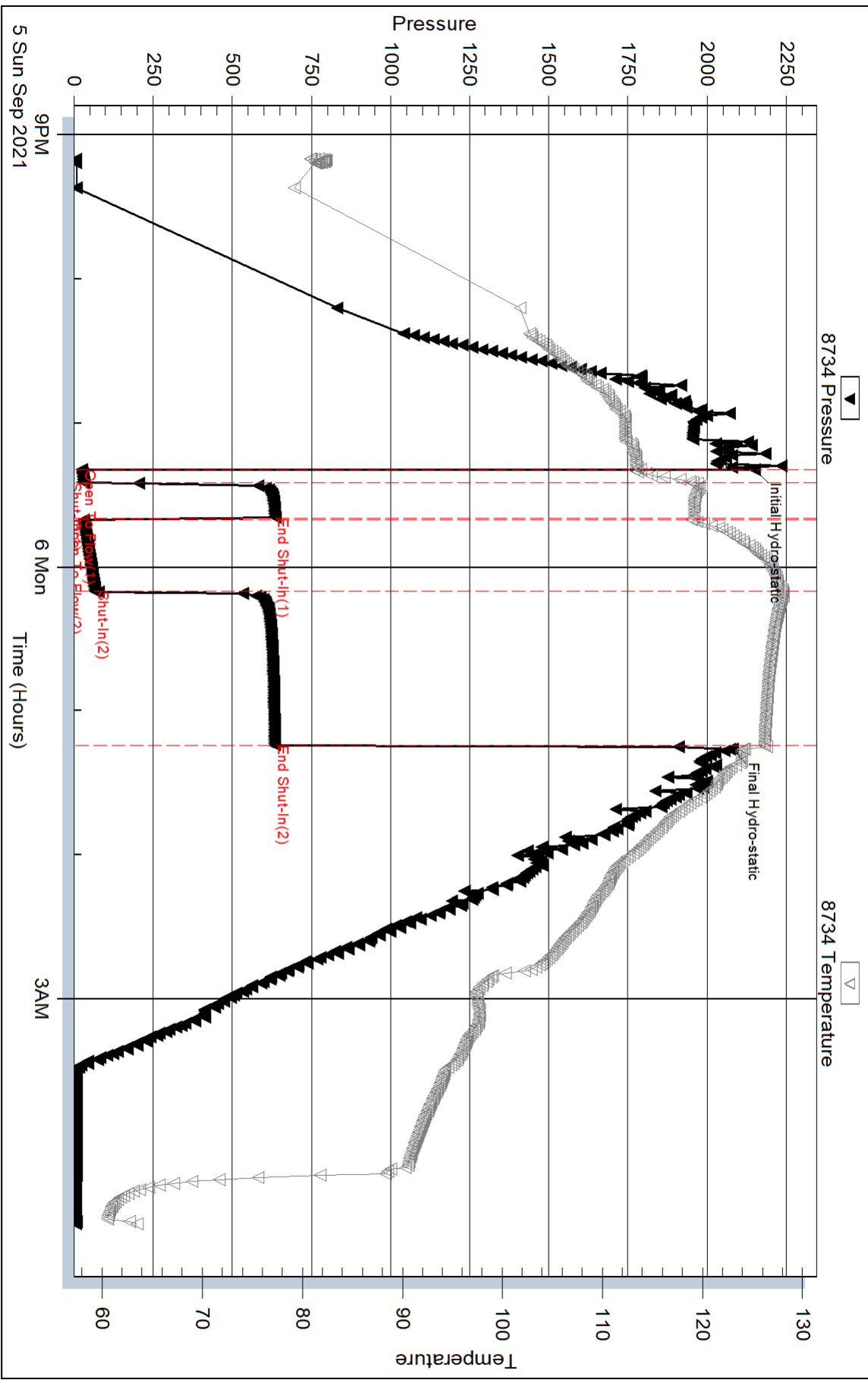
Laboratory Name:

Laboratory Location:

Recovery Comments: Not enough oil to catch gravity

RW=.255 @ 63.1 degs = 31,000PPM

### Pressure vs. Time



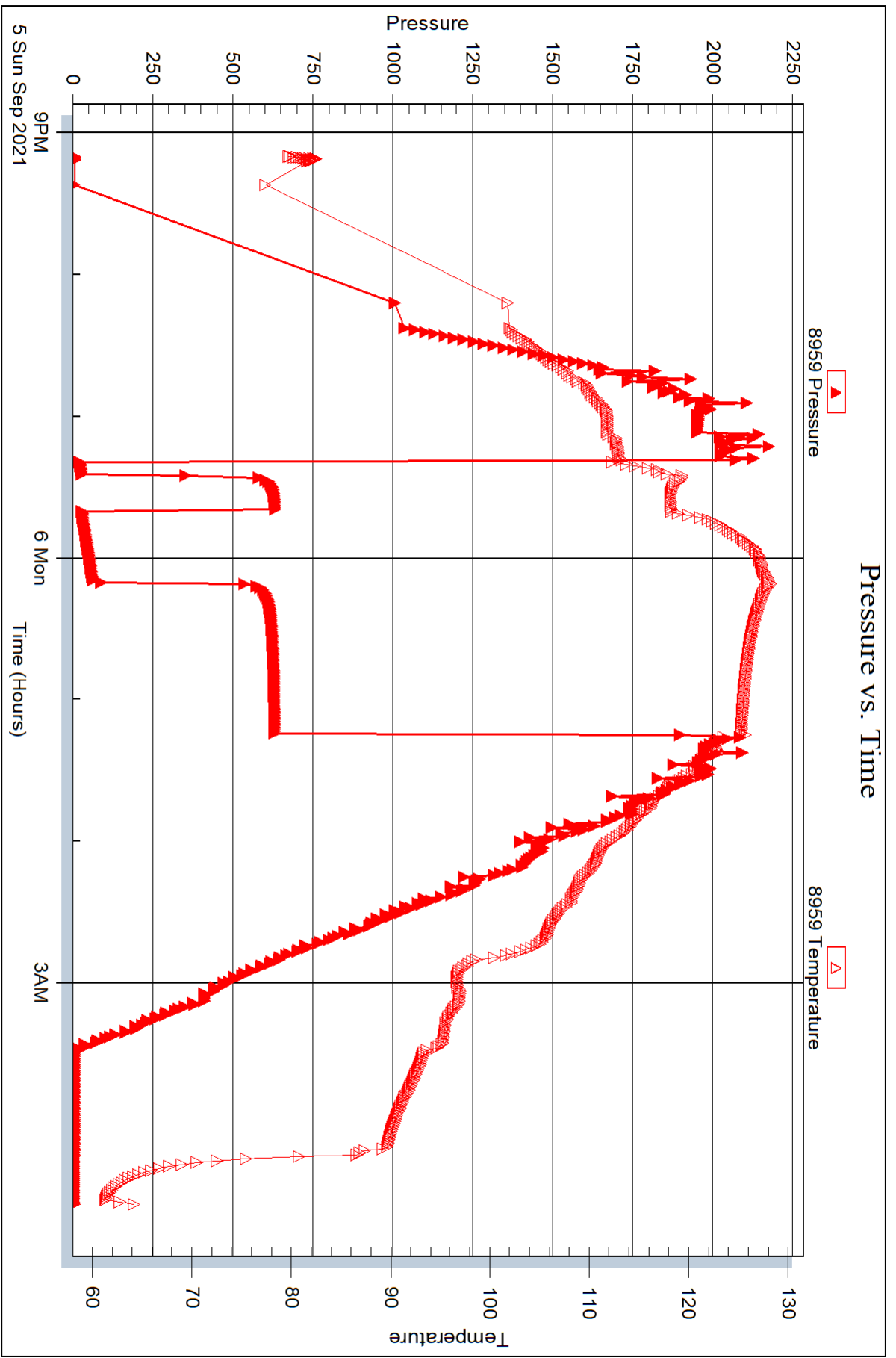
Serial #: 8959

Inside

Talon Group Inc

Hineman R #1-20

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67674

Printed: 2021.09.10 @ 11:33:19





## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.06 @ 15:12:00

End Date: 2021.09.06 @ 20:24:09

Job Ticket #: 67675                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:32:40



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

## GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:00

Time Test Ended: 20:24:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4302.00 ft (KB) To 4311.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4311.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 474.62 psig @ 4303.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.06 End Date: 2021.09.06

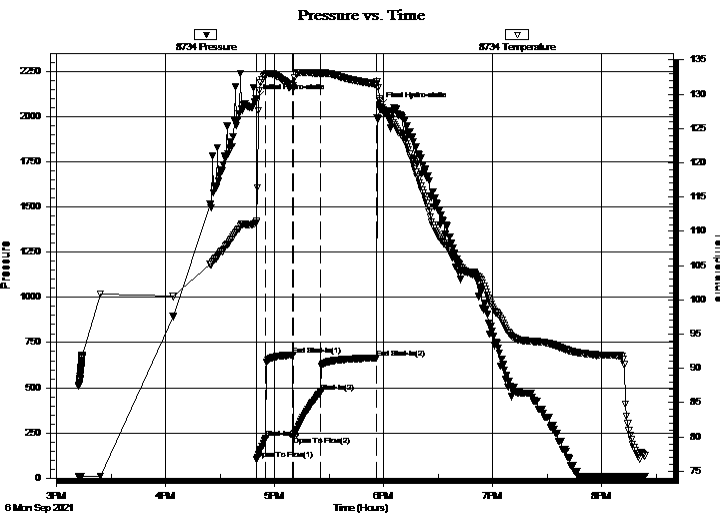
Last Calib.: 2021.09.06

Start Time: 15:12:01 End Time: 20:24:10

Time On Btm: 2021.09.06 @ 16:49:40

Time Off Btm: 2021.09.06 @ 17:57:50

**TEST COMMENT:** 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 26 1/4")  
15-ISI-Surface return blow @ 5 mins  
15-FF-B.O.B @ 2 mins (blow increased to 54 1/2")  
30-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.97	111.22	Initial Hydro-static
1	105.30	111.46	Open To Flow (1)
6	221.26	132.78	Shut-In(1)
21	681.28	131.23	End Shut-In(1)
21	232.35	130.82	Open To Flow (2)
36	474.62	133.01	Shut-In(2)
67	664.57	131.43	End Shut-In(2)
69	2055.95	128.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
820.00	MSW 1%M, 99%W	11.50
180.00	MCW 25%M, 75%W	2.52

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Talon Group Inc

**20-19S-28W Lane,KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

**GENERAL INFORMATION:**

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:00

Time Test Ended: 20:24:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4302.00 ft (KB) To 4311.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4311.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 4303.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.06 End Date: 2021.09.06

Last Calib.: 2021.09.06

Start Time: 15:12:01 End Time: 20:24:10

Time On Btm:

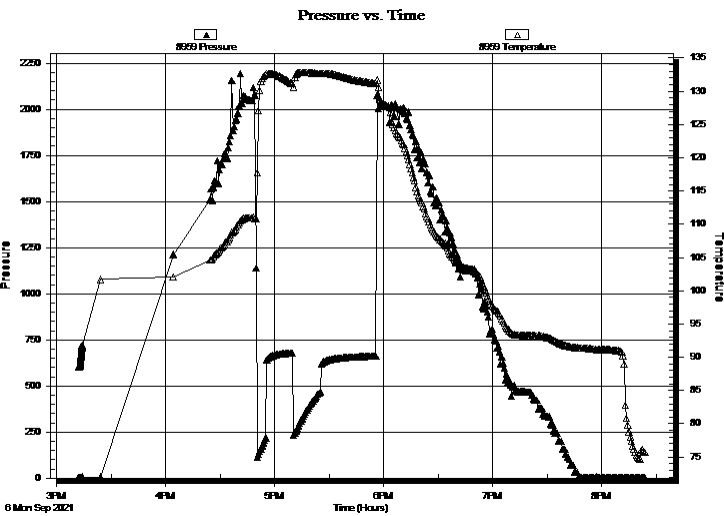
Time Off Btm:

**TEST COMMENT:** 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 26 1/4")

15-ISI-Surface return blow @ 5 mins

15-FF-B.O.B @ 2 mins (blow increased to 54 1/2")

30-FSI-No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
820.00	MSW 1%M, 99%W	11.50
180.00	MCW 25%M, 75%W	2.52

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

## Tool Information

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4302.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4280.00	
Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00	1113		4290.00	
Safety Joint	3.00	-001		4293.00	
Packer	5.00			4298.00	23.00 Bottom Of Top Packer
Packer	4.00			4302.00	
Stubb	1.00			4303.00	
Recorder	0.00	8959	Inside	4303.00	
Recorder	0.00	8734	Outside	4303.00	
Perforations	5.00			4308.00	
Bullnose	3.00			4311.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 32.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

## 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:

42000 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
820.00	MSW 1%M, 99%W	11.502
180.00	MCW 25%M, 75%W	2.525

Total Length: 1000.00 ft      Total Volume: 14.027 bbl

Num Fluid Samples: 0

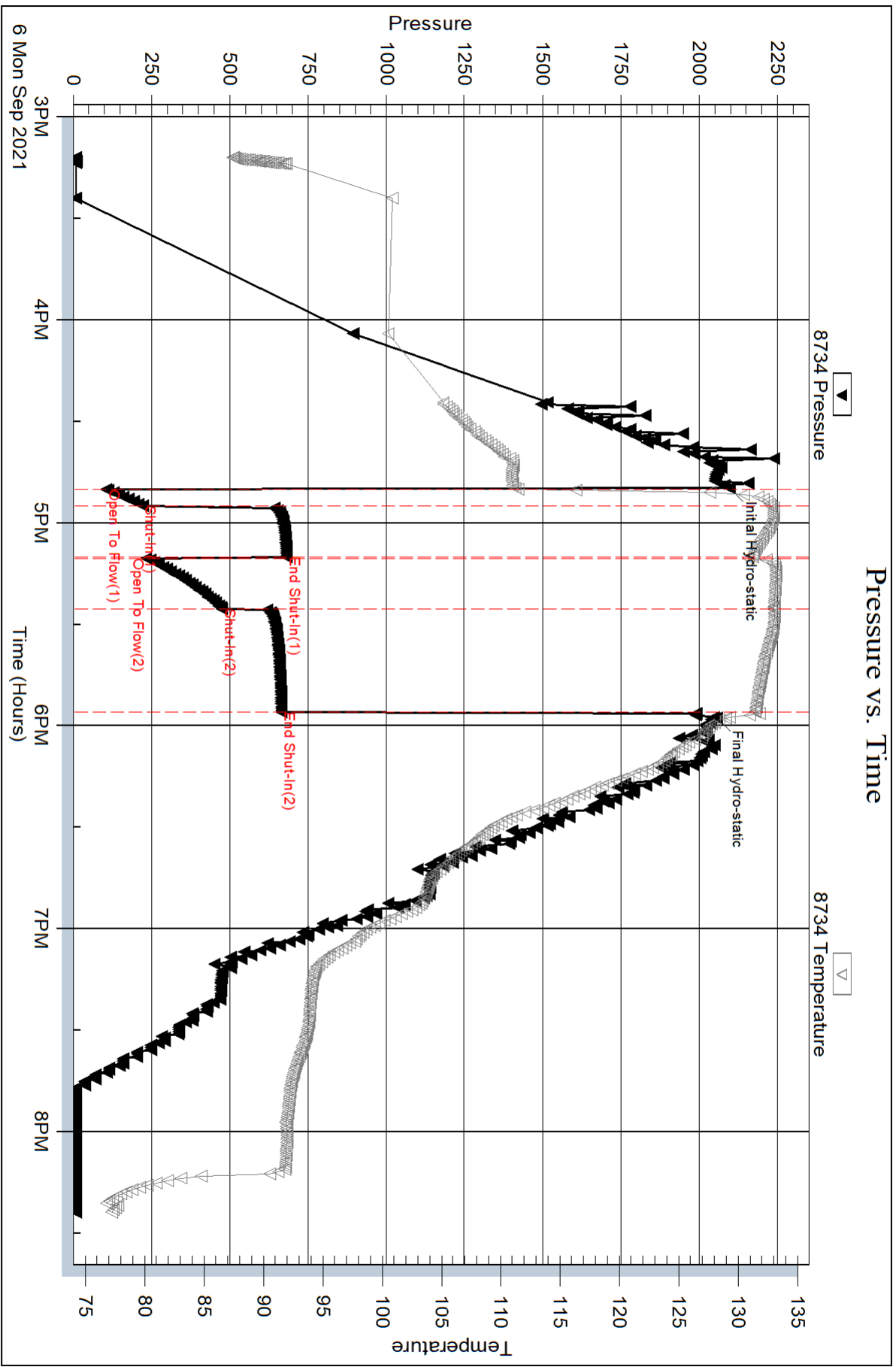
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .145 @ 84.8 DEGS = 42,000 ppm



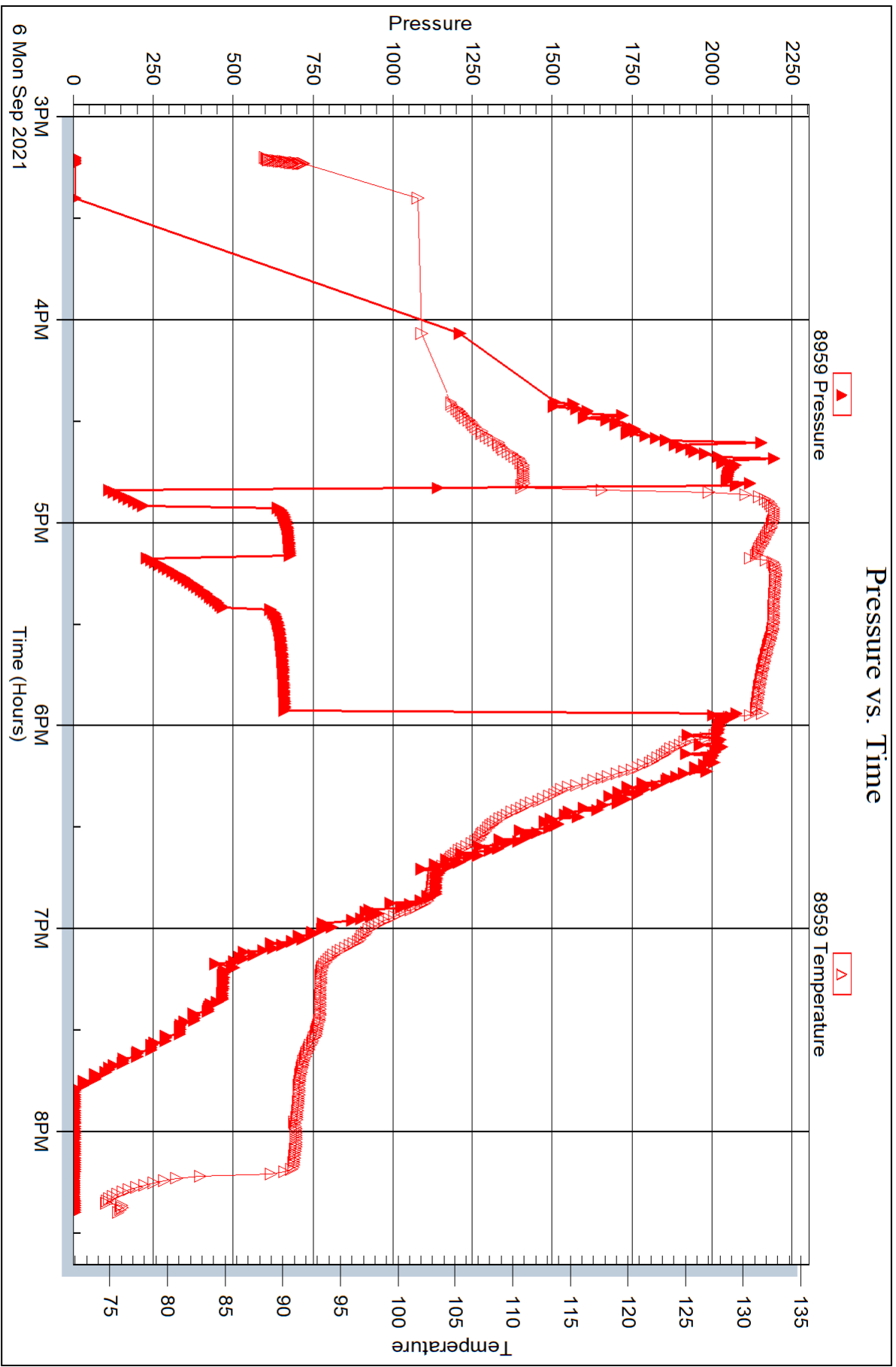
Serial #: 8959

Inside

Talon Group Inc

Hineman R #1-20

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.07 @ 07:35:00

End Date: 2021.09.07 @ 13:14:50

Job Ticket #: 67101                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:32:09

Talon Group Inc  
20-19S-28W Lane,KS  
Hineman R #1-20  
DST # 4  
LKC " K2"  
2021.09.07





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

20-19S-28W Lane, KS

PO Box 700  
Hays, KS 67601

Hineman R #1-20

ATTN: Vern Schrag

Job Ticket: 67101

DST#: 4

Test Start: 2021.09.07 @ 07:35:00

## GENERAL INFORMATION:

Formation: **LKC " K2"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:17:00  
 Time Test Ended: 13:14:50  
 Interval: **4327.00 ft (KB) To 4347.00 ft (KB) (TVD)**  
 Total Depth: 4347.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2802.00 ft (KB)  
 2792.00 ft (CF)  
 KB to GR/CF: 10.00 ft

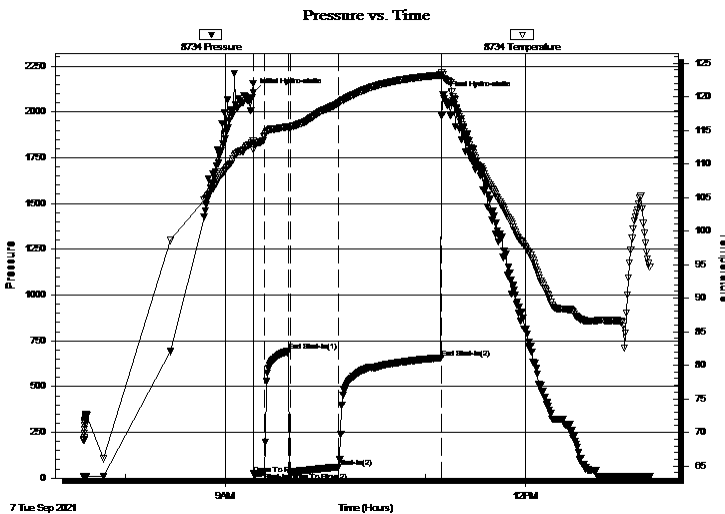
## Serial #: 8734

Outside

Press@RunDepth: 60.35 psig @ 4328.00 ft (KB)  
 Start Date: 2021.09.07 End Date: 2021.09.07  
 Start Time: 07:35:01 End Time: 13:14:50  
 Capacity: 8000.00 psig  
 Last Calib.: 2021.09.07  
 Time On Btm: 2021.09.07 @ 09:16:50  
 Time Off Btm: 2021.09.07 @ 11:10:40

TEST COMMENT: 5-IF-Surface blow built to 1 1/4"  
 15-ISI-No return  
 30-FF-Surface blow built to 2 1/2"  
 60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.68	113.20	Initial Hydro-static
1	22.84	112.06	Open To Flow (1)
7	30.42	114.15	Shut-In(1)
22	692.29	115.56	End Shut-In(1)
22	32.02	115.51	Open To Flow (2)
52	60.35	119.05	Shut-In(2)
113	656.90	123.22	End Shut-In(2)
114	2091.64	123.33	Final Hydro-static

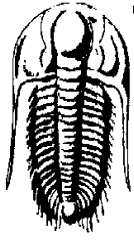
## Recovery

Length (ft)	Description	Volume (bbl)
88.00	HMCW 40%M, 60%W	1.23
2.00	CO 100%O	0.03

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc  
PO Box 700  
Hays, KS 67601  
ATTN: Vern Schrag

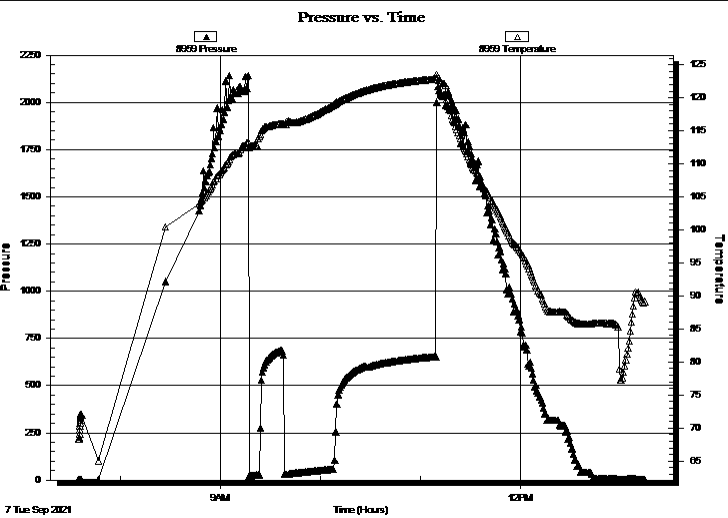
**20-19S-28W Lane, KS**  
**Hineman R #1-20**  
Job Ticket: 67101      **DST#: 4**  
Test Start: 2021.09.07 @ 07:35:00

## GENERAL INFORMATION:

Formation: **LKC " K2"**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 09:17:00      Tester: Martine Salinas  
Time Test Ended: 13:14:50      Unit No: 82  
**Interval: 4327.00 ft (KB) To 4347.00 ft (KB) (TVD)**      Reference Elevations: 2802.00 ft (KB)  
Total Depth: 4347.00 ft (KB) (TVD)      2792.00 ft (CF)  
Hole Diameter: 7.88 inchesHole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8959      Inside**  
Press@RunDepth:      psig @ 4328.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2021.09.07      End Date: 2021.09.07      Last Calib.: 2021.09.07  
Start Time: 07:35:01      End Time: 13:14:50      Time On Btm:  
Time Off Btm:

TEST COMMENT: 5-IF-Surface blow built to 1 1/4"  
15-ISI-No return  
30-FF-Surface blow built to 2 1/2"  
60-FSI-No return



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

Recovery		
Length (ft)	Description	Volume (bbl)
88.00	HMCW 40%M, 60%W	1.23
2.00	CO 100%O	0.03

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67101

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 07:35:00

## Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4327.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00	1113		4315.00	
Safety Joint	3.00	-001		4318.00	
Packer	5.00			4323.00	23.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Recorder	0.00	8959	Inside	4328.00	
Recorder	0.00	8734	Outside	4328.00	
Perforations	16.00			4344.00	
Bullnose	3.00			4347.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67101

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 07:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
88.00	HMCW 40%M, 60%W	1.234
2.00	CO 100%O	0.028

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

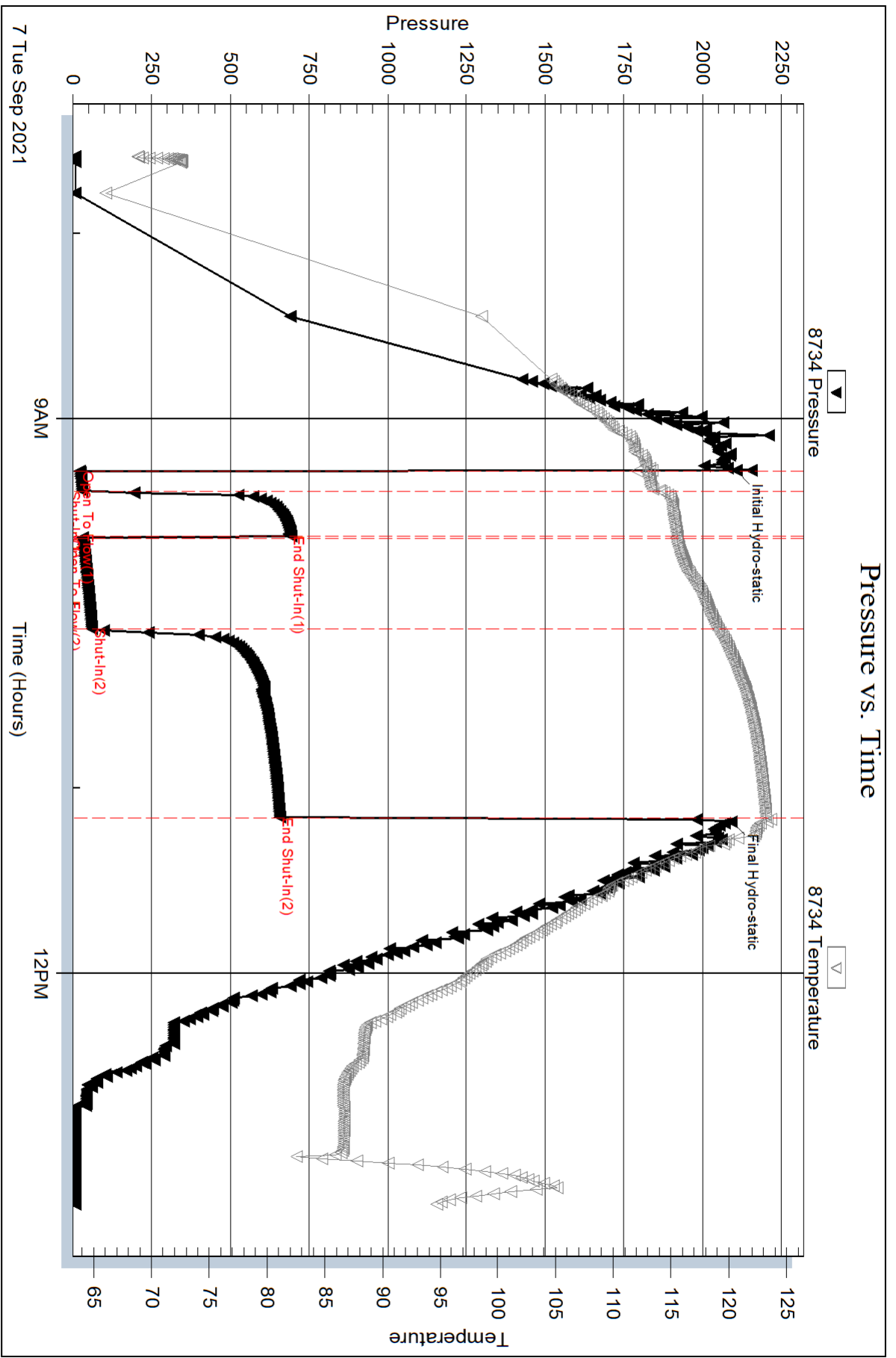
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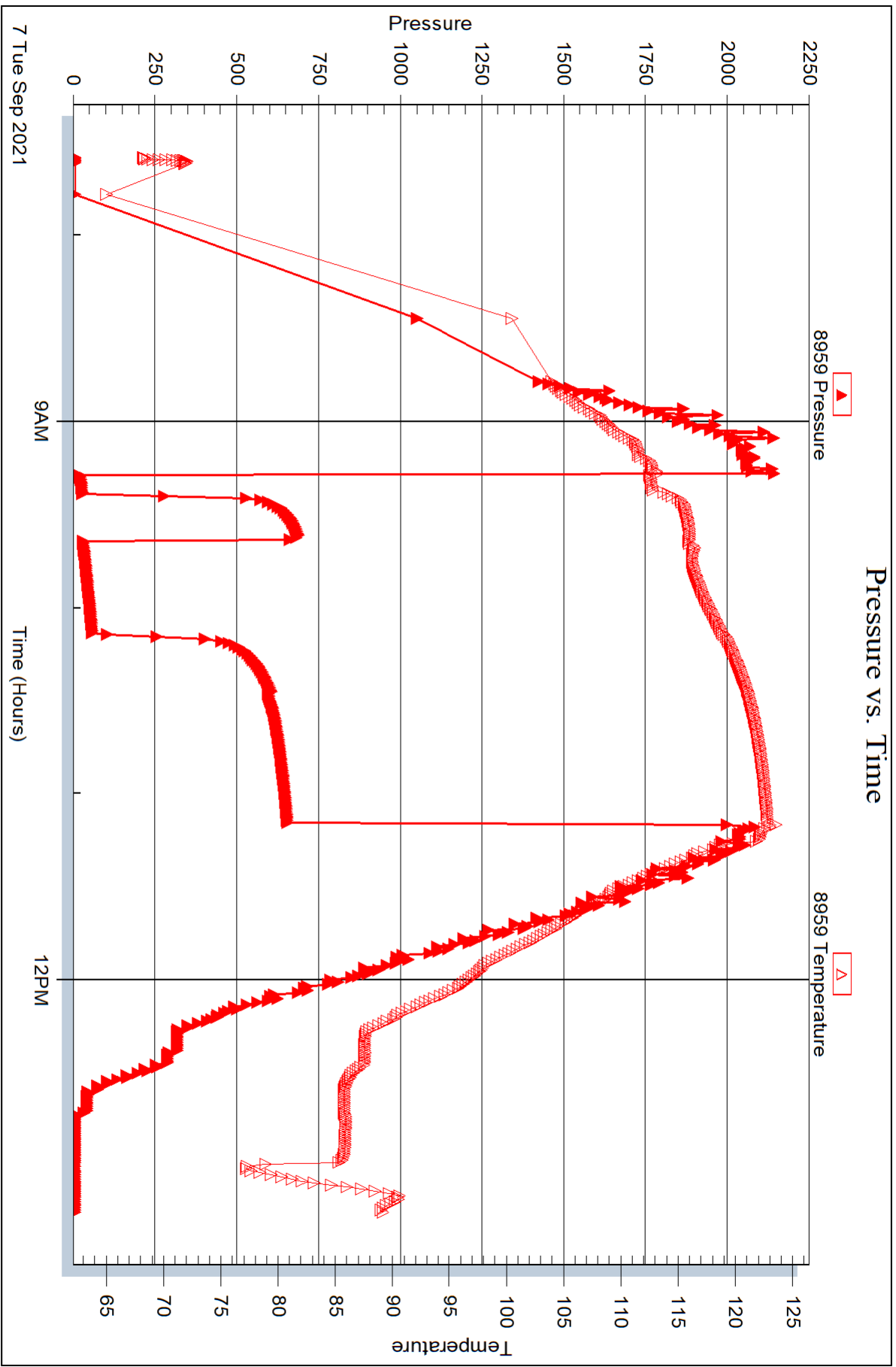
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 41 @ 88 degs corrected to 38.2 @ 60 degs

RW= .192 @ 86 degs = 30,000 PPM







## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.07 @ 20:30:00

End Date: 2021.09.08 @ 02:24:00

Job Ticket #: 67102                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:31:41

Talon Group Inc  
20-19S-28W Lane,KS  
Hineman R #1-20  
DST # 5  
LKC " L "  
2021.09.07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67102

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 20:30:00

## GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:08:30

Time Test Ended: 02:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4340.00 ft (KB) To 4355.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4355.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 293.19 psig @ 4341.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.07 End Date: 2021.09.08

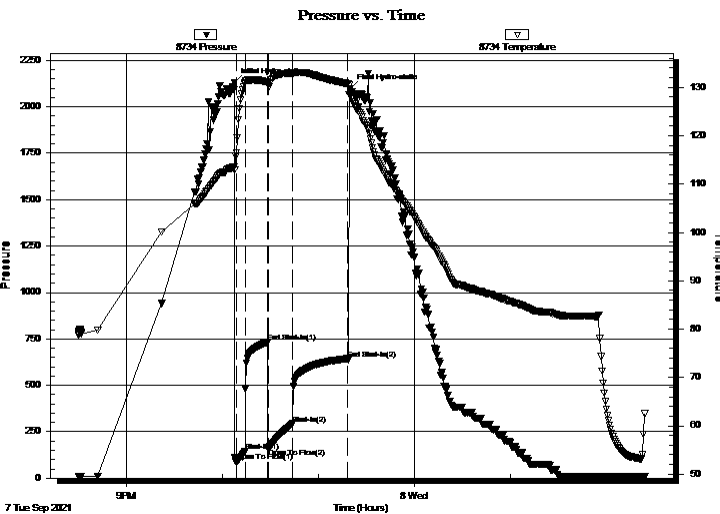
Last Calib.: 2021.09.08

Start Time: 20:30:01 End Time: 02:24:00

Time On Btm: 2021.09.07 @ 22:07:30

Time Off Btm: 2021.09.07 @ 23:19:40

**TEST COMMENT:** 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 29")  
15-ISI-Return blow built to 4 3/4"  
15-FF-B.O.B @ 3 mins (blow increased to 39")  
30-FSI-Return blow built to 4 3/4"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.65	113.63	Initial Hydro-static
1	91.56	116.53	Open To Flow (1)
7	144.58	130.96	Shut-In(1)
21	730.64	131.01	End Shut-In(1)
21	161.63	130.39	Open To Flow (2)
37	293.19	132.87	Shut-In(2)
71	643.42	130.76	End Shut-In(2)
73	2097.45	128.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 35%G, 5%O, 60%M	0.28
745.00	CGO 22%G, 78%O	10.45
0.00	310' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Talon Group Inc

20-19S-28W Lane,KS

PO Box 700  
Hays, KS 67601

Hineman R #1-20

Job Ticket: 67102

DST#: 5

ATTN: Vern Schrag

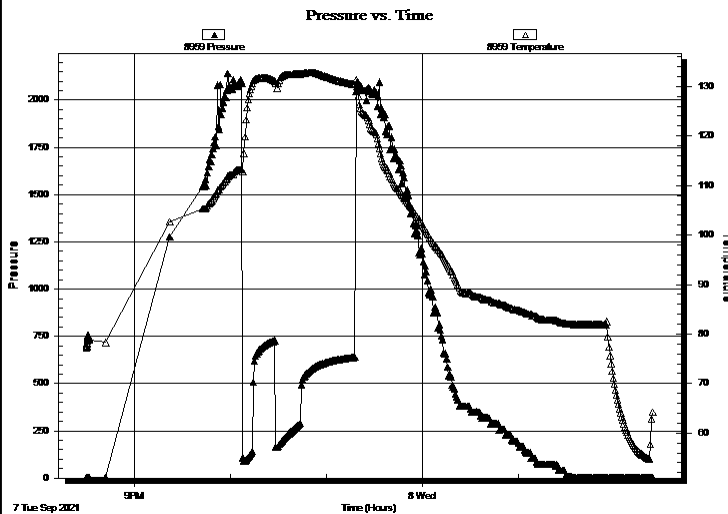
Test Start: 2021.09.07 @ 20:30:00

### GENERAL INFORMATION:

Formation: **LKC " L "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:08:30  
 Time Test Ended: 02:24:00  
**Interval: 4340.00 ft (KB) To 4355.00 ft (KB) (TVD)**  
 Total Depth: 4355.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 82  
 Reference Elevations: 2802.00 ft (KB)  
 2792.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8959** Inside  
 Press@RunDepth: psig @ 4341.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.09.07 End Date: 2021.09.08 Last Calib.: 2021.09.08  
 Start Time: 20:30:01 End Time: 02:23:50 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 29")  
 15-ISI-Return blow built to 4 3/4"  
 15-FF-B.O.B @ 3 mins (blow increased to 39")  
 30-FSI-Return blow built to 4 3/4"



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 35%G, 5%O, 60%M	0.28
745.00	CGO 22%G, 78%O	10.45
0.00	310' GIP	0.00

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67102

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 20:30:00

## Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 60.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4340.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4318.00	
Shut In Tool	5.00			4323.00	
Hydraulic tool	5.00	1113		4328.00	
Safety Joint	3.00	-001		4331.00	
Packer	5.00			4336.00	23.00 Bottom Of Top Packer
Packer	4.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	8959	Inside	4341.00	
Recorder	0.00	8734	Outside	4341.00	
Perforations	11.00			4352.00	
Bullnose	3.00			4355.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane,KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67102

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 20:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GSOCM 35%G, 5%O, 60%M	0.281
745.00	CGO 22%G, 78%O	10.450
0.00	310' GIP	0.000

Total Length: 765.00 ft      Total Volume: 10.731 bbl

Num Fluid Samples: 0

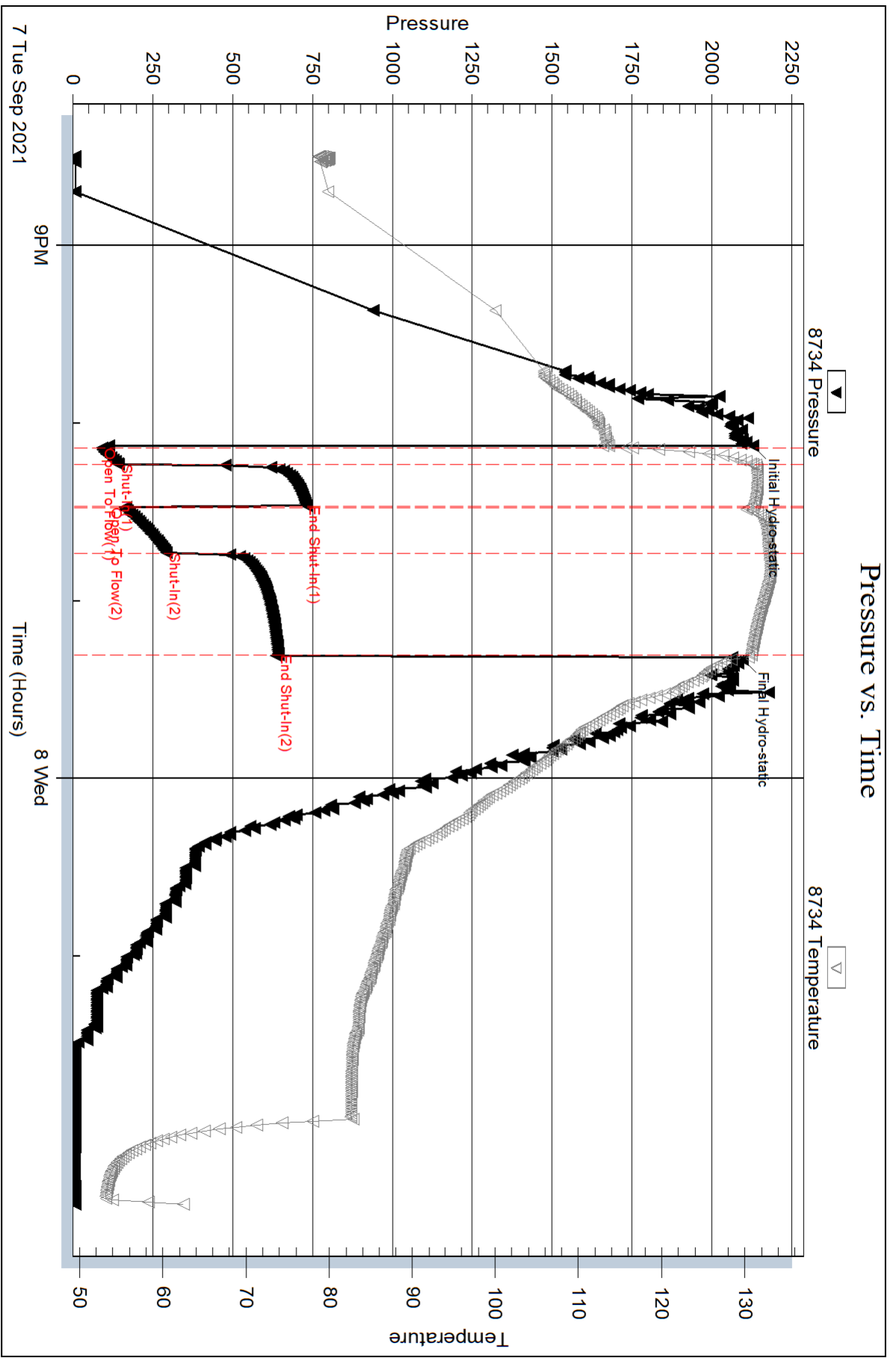
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 35.2 @ 60 degs



Serial #: 8959

Inside

Talon Group Inc

Hineman R #1-20

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.08 @ 13:00:00

End Date: 2021.09.08 @ 18:04:00

Job Ticket #: 67103                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:30:35



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67103

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2021.09.08 @ 13:00:00

## GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:42:40

Time Test Ended: 18:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4383.00 ft (KB) To 4398.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4398.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 57.49 psig @ 4384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.08 End Date: 2021.09.08

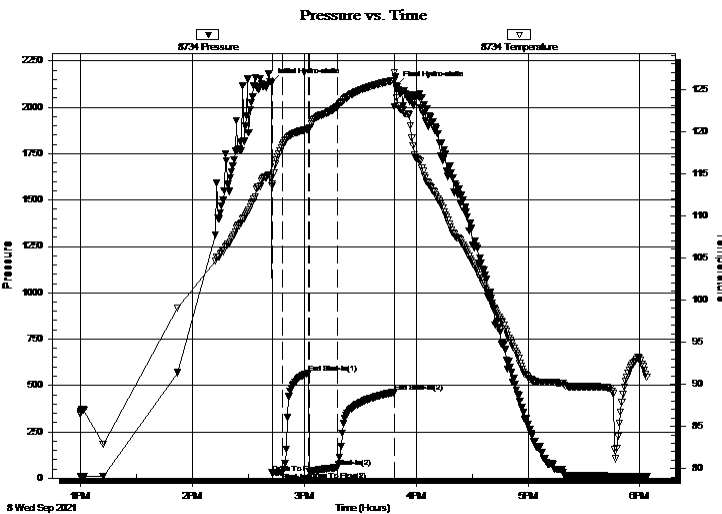
Last Calib.: 2021.09.08

Start Time: 13:00:01 End Time: 18:04:00

Time On Btm: 2021.09.08 @ 14:42:30

Time Off Btm: 2021.09.08 @ 15:49:20

**TEST COMMENT:** 5-IF-Blow built to 10 1/2"  
15-ISI-Return blow to 1/2"  
15-FF-B.O.B (11 inches) @ 5 mins (blow increased to 24 3/4")  
30-FSI-Return blow to 6"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.58	114.44	Initial Hydro-static
1	28.02	113.56	Open To Flow (1)
6	33.12	118.40	Shut-In(1)
20	567.54	120.28	End Shut-In(1)
21	37.16	120.34	Open To Flow (2)
36	57.49	122.97	Shut-In(2)
66	462.66	126.04	End Shut-In(2)
67	2116.86	125.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO 45%G, 20%M 35%O	0.56
80.00	CGO 35%G, 65%O	1.12
0.00	600' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Talon Group Inc

20-19S-28W Lane, KS

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

ATTN: Vern Schrag

Job Ticket: 67103

**DST#: 6**

Test Start: 2021.09.08 @ 13:00:00

### GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:42:40

Time Test Ended: 18:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4383.00 ft (KB) To 4398.00 ft (KB) (TVD)**

Total Depth: 4398.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2802.00 ft (KB)

2792.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8959 Inside**

Press@RunDepth: psig @ 4384.00 ft (KB)

Start Date: 2021.09.08

End Date: 2021.09.08

Start Time: 13:00:01

End Time: 18:04:00

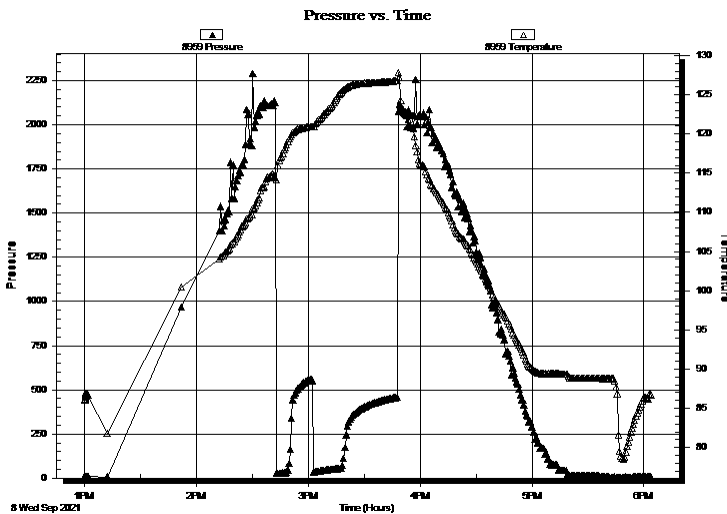
Capacity: 8000.00 psig

Last Calib.: 2021.09.08

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IF-Blow built to 10 1/2"  
15-ISI-Return blow to 1/2"  
15-FF-B.O.B (11 inches) @ 5 mins (blow increased to 24 3/4")  
30-FSI-Return blow to 6"



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO 45%G, 20%M 35%O	0.56
80.00	CGO 35%G, 65%O	1.12
0.00	600' GIP	0.00

### Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67103

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2021.09.08 @ 13:00:00

## Tool Information

Drill Pipe:	Length: 4386.00 ft	Diameter: 3.80 inches	Volume: 61.52 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4383.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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			4361.00	
Shut In Tool	5.00			4366.00	
Hydraulic tool	5.00	1113		4371.00	
Safety Joint	3.00	-001		4374.00	
Packer	5.00			4379.00	23.00 Bottom Of Top Packer
Packer	4.00			4383.00	
Stubb	1.00			4384.00	
Recorder	0.00	8959	Inside	4384.00	
Recorder	0.00	8734	Outside	4384.00	
Perforations	11.00			4395.00	
Bullnose	3.00			4398.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane,KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67103

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2021.09.08 @ 13:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GMCO 45%G, 20%M 35%O	0.561
80.00	CGO 35%G, 65%O	1.122
0.00	600' GIP	0.000

Total Length: 120.00 ft      Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

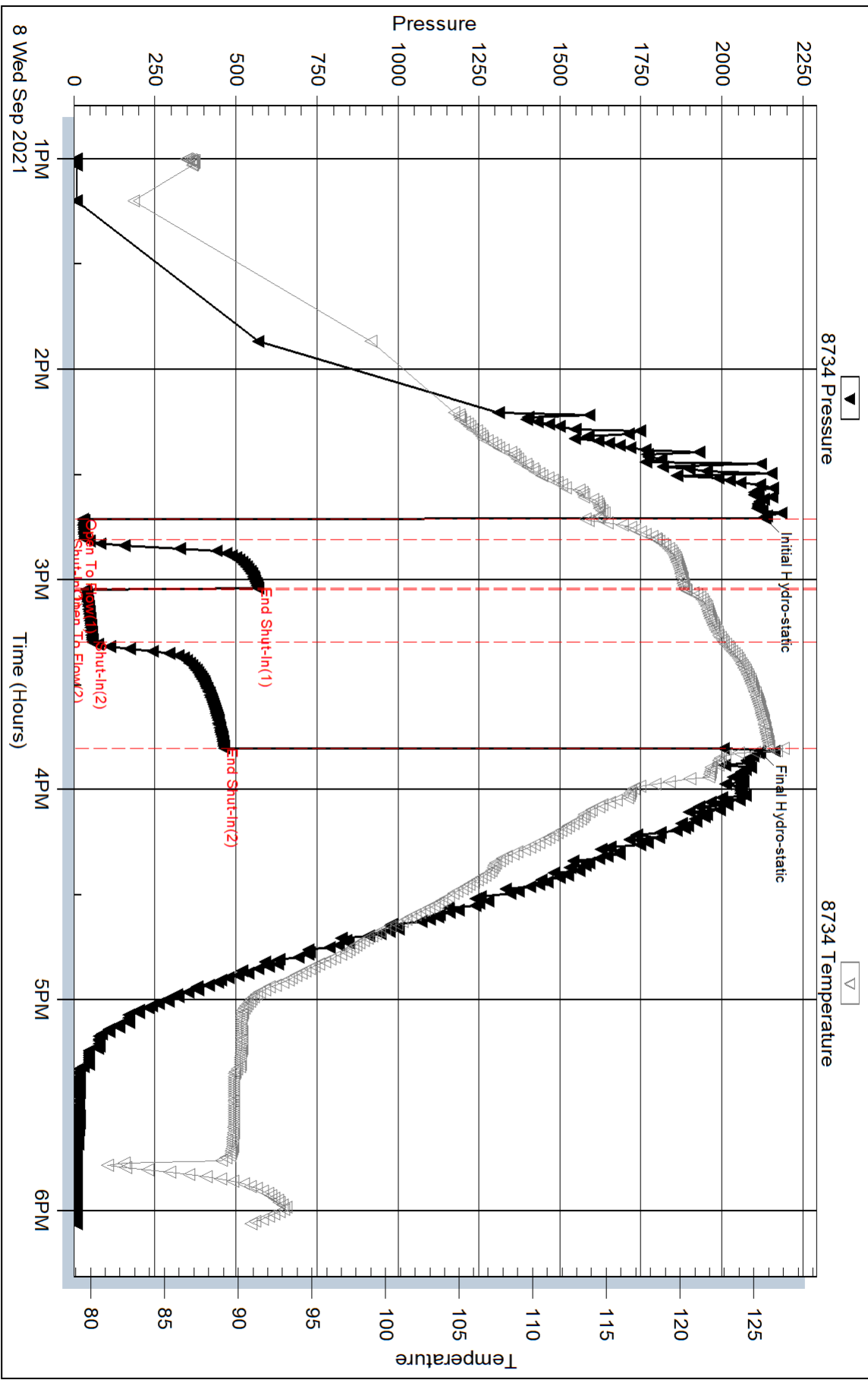
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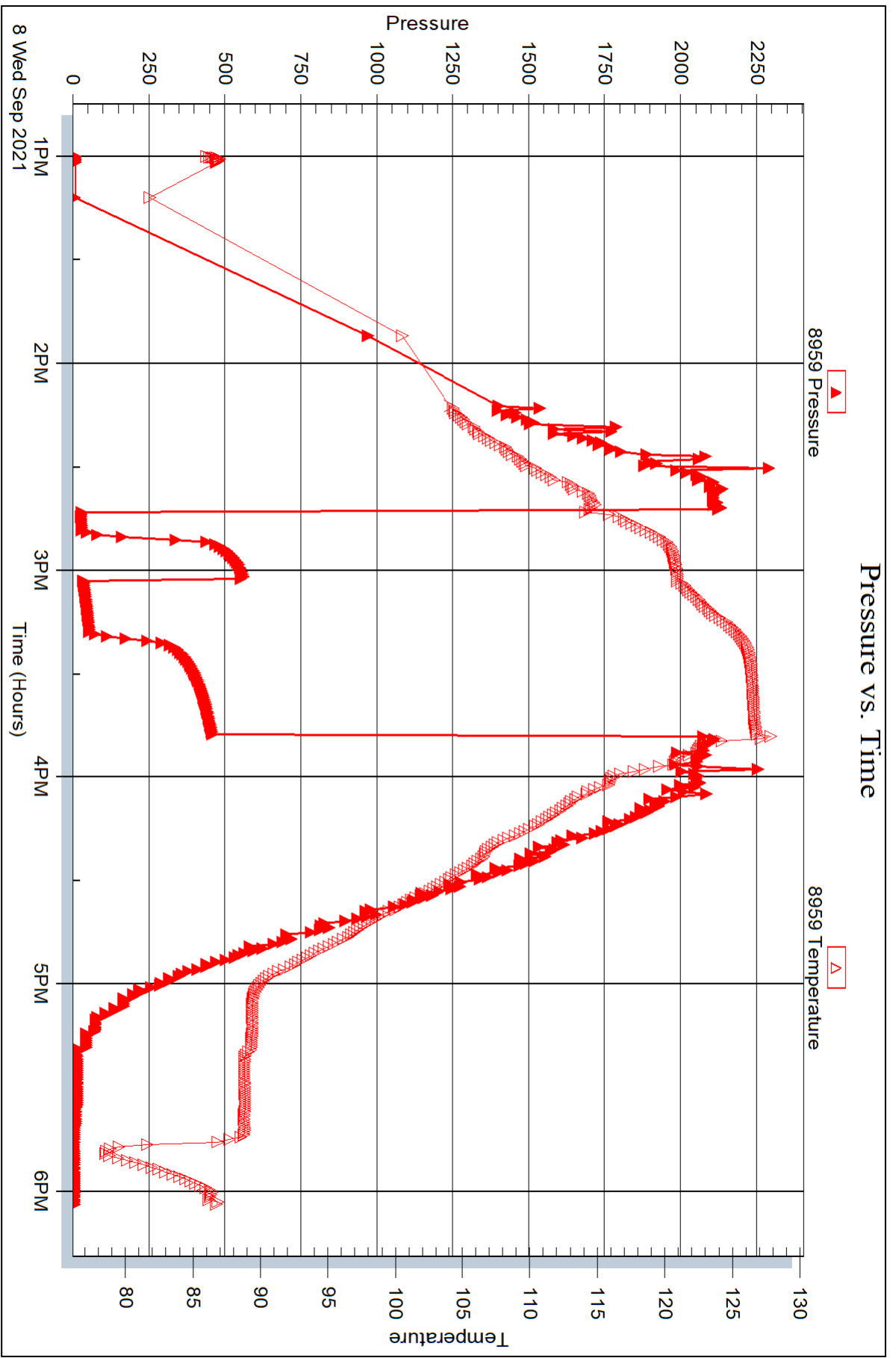
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 40.2 @ 84 degs corrected to 37.8 @ 60 degs

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Talon Group Inc**

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**Hineman R #1-20**

**20-19S-28W Lane,KS**

Start Date: 2021.09.09 @ 21:52:00

End Date: 2021.09.10 @ 04:12:09

Job Ticket #: 67104                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.09.10 @ 11:29:30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67104

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2021.09.09 @ 21:52:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:09:00

Time Test Ended: 04:12:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4618.00 ft (KB) To 4651.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4651.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 31.56 psig @ 4619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.09 End Date: 2021.09.10

Last Calib.: 2021.09.10

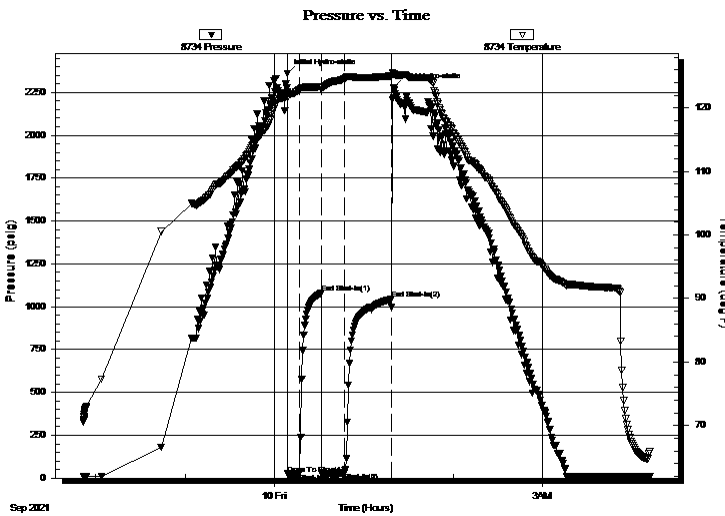
Start Time: 21:52:01 End Time: 04:12:10

Time On Btm: 2021.09.10 @ 00:08:40

Time Off Btm: 2021.09.10 @ 01:20:00

**TEST COMMENT:** 5-IF-Surface blow to 1/2"  
15-ISI-No return  
15-FF-No blow  
30-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2361.26	122.51	Initial Hydro-static
1	24.07	121.66	Open To Flow (1)
8	26.25	122.84	Shut-In(1)
23	1078.45	123.32	End Shut-In(1)
23	27.97	122.93	Open To Flow (2)
39	31.56	124.63	Shut-In(2)
70	1043.50	125.03	End Shut-In(2)
72	2277.16	125.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 5%G, 10%O, 85%M	0.42

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Talon Group Inc

PO Box 700  
Hays, KS 67601

ATTN: Vern Schrag

**20-19S-28W Lane, KS**

**Hineman R #1-20**

Job Ticket: 67104

**DST#: 7**

Test Start: 2021.09.09 @ 21:52:00

### GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:09:00 Tester: Martine Salinas  
 Time Test Ended: 04:12:09 Unit No: 82  
 Interval: **4618.00 ft (KB) To 4651.00 ft (KB) (TVD)** Reference Elevations: 2802.00 ft (KB)  
 Total Depth: 4651.00 ft (KB) (TVD) 2792.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

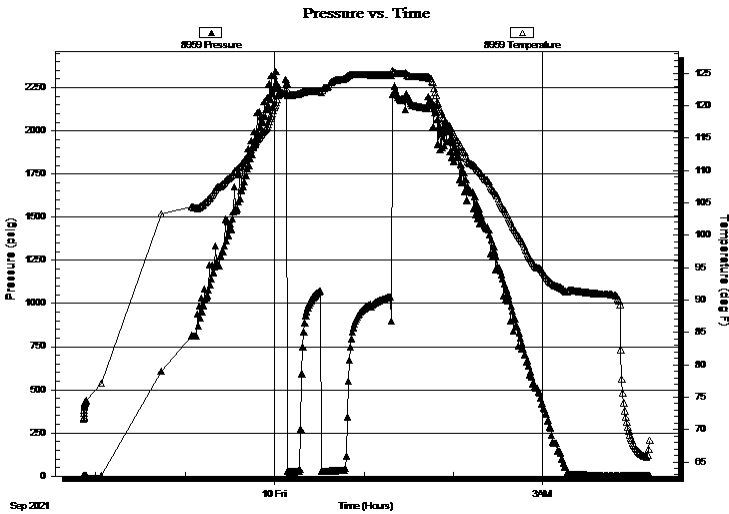
**Serial #: 8959**

**Inside**

Press@RunDepth: psig @ 4619.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.09.09 End Date: 2021.09.10 Last Calib.: 2021.09.10  
 Start Time: 21:52:01 End Time: 04:12:00 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 5-IF-Surface blow to 1/2"  
 15-ISI-No return  
 15-FF-No blow  
 30-FSI-No return

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 5%G, 10%O, 85%M	0.42

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67104

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2021.09.09 @ 21:52:00

## Tool Information

Drill Pipe:	Length: 4608.00 ft	Diameter: 3.80 inches	Volume: 64.64 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4618.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	56.00 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			4596.00	
Shut In Tool	5.00			4601.00	
Hydraulic tool	5.00	1113		4606.00	
Safety Joint	3.00	-001		4609.00	
Packer	5.00			4614.00	23.00 Bottom Of Top Packer
Packer	4.00			4618.00	
Packer - Shale	0.00			4618.00	
Stubb	1.00			4619.00	
Recorder	0.00	8959	Inside	4619.00	
Recorder	0.00	8734	Outside	4619.00	
Perforations	27.00			4646.00	
Bullnose	5.00			4651.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group Inc

**20-19S-28W Lane, KS**

PO Box 700  
Hays, KS 67601

**Hineman R #1-20**

Job Ticket: 67104

**DST#: 7**

ATTN: Vern Schrag

Test Start: 2021.09.09 @ 21:52:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOCM 5%G, 10%O, 85%M	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

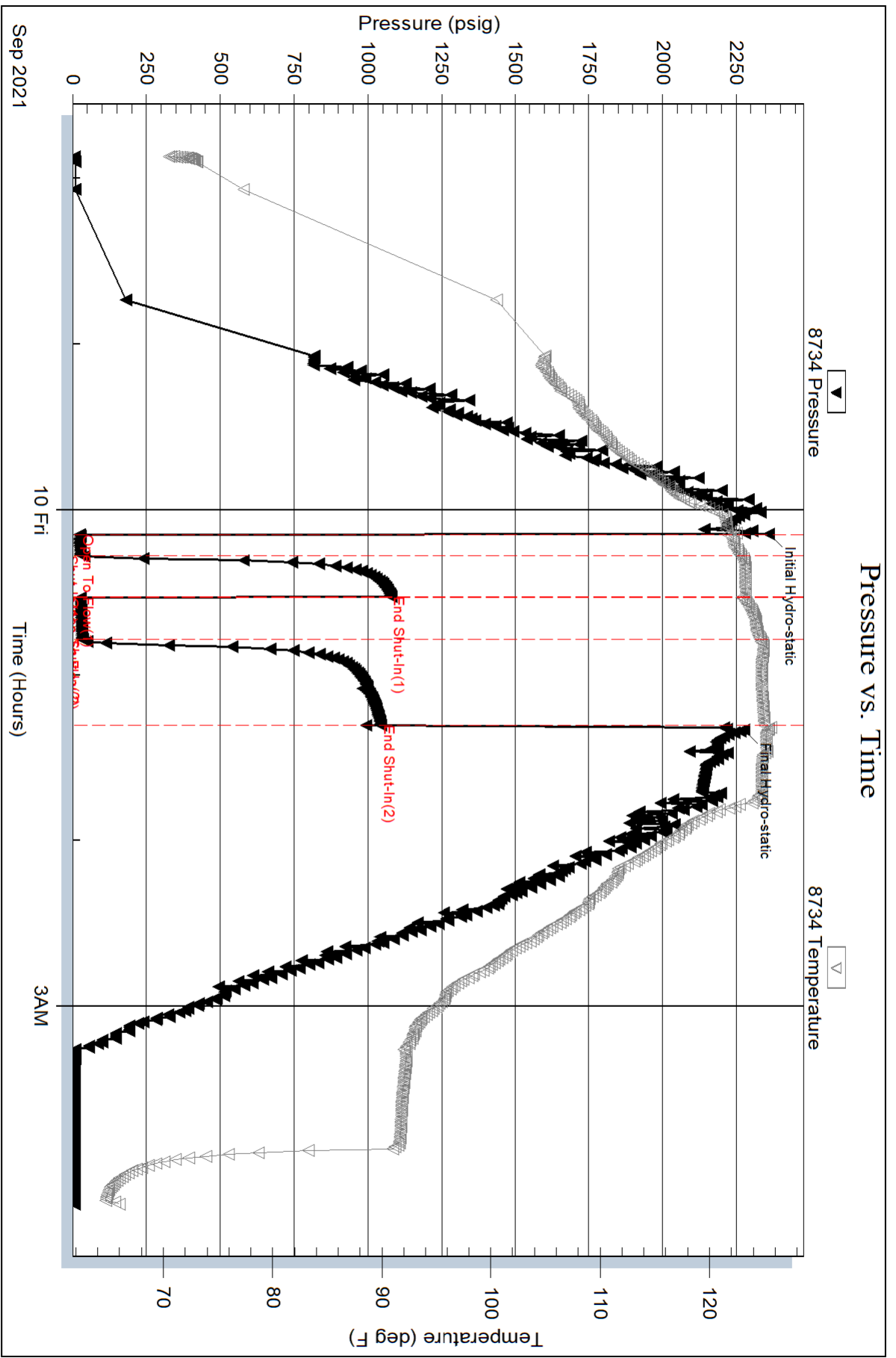
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



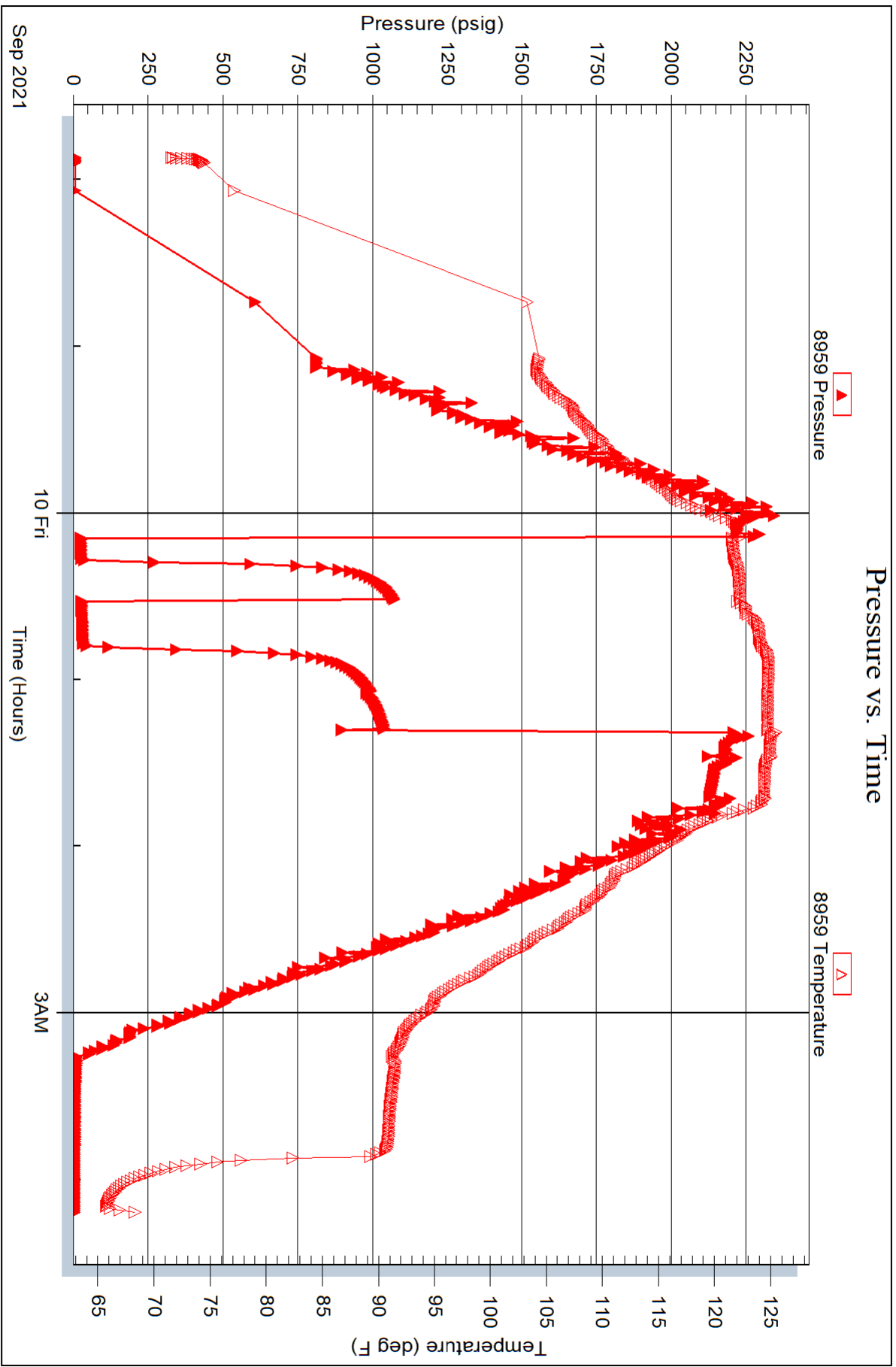
Serial #: 8959

Inside

Talon Group Inc

Hineman R #1-20

DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 67104

Printed: 2021.09.10 @ 11:29:33



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67673**

Well Name & No. Hinemans R #1-20 Test No. 1 Date 9-5-21  
 Company Talon Group Inc. Elevation 2902 KB 2792. GL  
 Address P.O. Box 700 Hays, KS 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19S. Rge. 28W Co. Lane. State KS.

Interval Tested 4239 - 4262. Zone Tested LKC "I"  
 Anchor Length 23' Drill Pipe Run 4226 Mud Wt. 8.7  
 Top Packer Depth 4234 Drill Collars Run — Vis 41  
 Bottom Packer Depth 4239 Wt. Pipe Run — WL 8.8  
 Total Depth 4262 Chlorides 2000 ppm System LCM 1#  
 Blow Description IF - S. blow to 1/4"  
ISI - No return.  
FF - No blow  
FST - No return

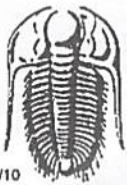
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/oil spots.</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2077  Test 1450 T-On Location 06:45  
 (B) First Initial Flow 21  Jars — T-Started 08:05  
 (C) First Final Flow 22  Safety Joint 75 T-Open 10:22  
 (D) Initial Shut-In 705  Circ Sub — T-Pulled 11:27  
 (E) Second Initial Flow 23  Hourly Standby — T-Out 13:36  
 (F) Second Final Flow 24  Mileage 76 RT 95 Comments —  
 (G) Final Shut-In 609  Sampler —  
 (H) Final Hydrostatic 2038  Straddle —  EM Tool —  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Day Standby — Sub Total 0  
 Accessibility — Total 1620  
 Sub Total 1620 MP/DST Disc't —

Approved By — Our Representative Vern Schrag

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67674**

Well Name & No. Hineman R #1-20 Test No. 2 Date 9-5-21  
 Company Talon Group Inc Elevation 2800 KB 2792 GL  
 Address P.O. Box 700 Hays, KS 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19S. Rge. 28W. Co. Lane State KS.

Interval Tested 4268 - 4281 Zone Tested LKC "J"  
 Anchor Length 13 Drill Pipe Run 4258 Mud Wt. 9.1  
 Top Packer Depth 4263 Drill Collars Run — Vis 54  
 Bottom Packer Depth 4268 Wt. Pipe Run — WL 7.2  
 Total Depth 4281 Chlorides 2400 ppm System LCM 2#

Blow Description IF - S. blow to 1 1/2" @ 5 mins.  
ISI - No return.  
FF - S. blow to 4"  
FBI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>99</u>	<u>505 MW</u>	<u>2</u>	<u>78</u>	<u>20</u>	
<u>1</u>	<u>CO</u>	<u>100</u>			

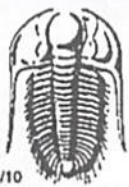
Rec Total 100 BHT 124 Gravity — API RW .255 @ 63.1 °F Chlorides 31,000 ppm

(A) Initial Hydrostatic 2149  Test 1450 T-On Location 20:30  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 21:10  
 (C) First Final Flow 31  Safety Joint 75 T-Open 23:20  
 (D) Initial Shut-In 635  Circ Sub \_\_\_\_\_ T-Pulled 01:10  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 04:35  
 (F) Second Final Flow 67  Mileage 76 RT 95 Comments \_\_\_\_\_  
 (G) Final Shut-In 633  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2079  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1620  
 Sub Total 1620 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Matt Palmer

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67675**

Well Name & No. Hineman R # 1-20 Test No. 3 Date 9-6-21  
 Company Talon Group Inc. Elevation 2802 KB 2792 GL  
 Address P.O. Box 700 Hays, KS. 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19 S. Rge. 28 W. Co. Lane. State KS

Interval Tested 4302-4311 Zone Tested LKC "K"  
 Anchor Length 9' Drill Pipe Run 4290 Mud Wt. 9.1  
 Top Packer Depth 4297 Drill Collars Run — Vis 58  
 Bottom Packer Depth 4302 Wt. Pipe Run — WL 9.6  
 Total Depth 4311 Chlorides 3340 ppm System LCM 2#

Blow Description IF - B.O.B (11 inches) @ 2 mins (blow increased to 26 1/4")  
ISI - Surface return blow @ 5 mins  
FF - B.O.B @ 2 mins (blow increased to 54 1/2")  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>820</u>	<u>MSW</u>		<u>99</u>	<u>1</u>	
<u>180</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

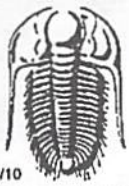
Rec Total 1000 BHT 129 Gravity — API RW 145 @ 84.8 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic 2098  Test 1450 T-On Location 15:00  
 (B) First Initial Flow 105  Jars \_\_\_\_\_ T-Started 15:12  
 (C) First Final Flow 221  Safety Joint 75 T-Open 16:50  
 (D) Initial Shut-In 681  Circ Sub \_\_\_\_\_ T-Pulled 17:55  
 (E) Second Initial Flow 232  Hourly Standby \_\_\_\_\_ T-Out 20:25  
 (F) Second Final Flow 475  Mileage 76 RT 95 Comments \_\_\_\_\_  
 (G) Final Shut-In 665  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2056  Straddle \_\_\_\_\_

Initial Open 5  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 15  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 15  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 1620  Accessibility \_\_\_\_\_ Sub Total 0  
 Total 1620 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Vern Schrag

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67101

Well Name & No. Hineman R #1-20 Test No. 4 Date 9-7-21  
 Company Talon Group, Inc. Elevation 2802 KB 2792 GL  
 Address P.O. Box 700 Hays KS 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19S. Rge. 28W. Co. Lane. State KS.

Interval Tested 4327-4347 Zone Tested LKC "K2"  
 Anchor Length 20' Drill Pipe Run 4322. Mud Wt. 9.0  
 Top Packer Depth 4322. Drill Collars Run — Vis 52  
 Bottom Packer Depth 4327 Wt. Pipe Run — WL 9.6  
 Total Depth 4347 Chlorides 3300 ppm System LCM 2#  
 Blow Description IF - S. blow to 1 1/4"  
ISI - No return.  
FF - S. blow built to 2 1/2  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>88</u>	<u>Feet of H<sub>2</sub>O</u>		<u>60</u>	<u>40</u>	
<u>2</u>	<u>Feet of CO</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 Total 90 BHT 123 Gravity 38.2 API RW .192 @ 86.0 °F Chlorides 39000 ppm  
 (A) Initial Hydrostatic 2107  Test 1450 T-On Location 07:15  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 07:35  
 (C) First Final Flow 30  Safety Joint 75 T-Open 09:18  
 (D) Initial Shut-In 692  Circ Sub \_\_\_\_\_ T-Pulled 11:08  
 (E) Second Initial Flow 33  Hourly Standby \_\_\_\_\_ T-Out 13:15  
 (F) Second Final Flow 60  Mileage 76 RT 95 Comments \_\_\_\_\_  
 (G) Final Shut-In 657  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2092  Straddle \_\_\_\_\_  
 Initial Open 5  Shale Packer \_\_\_\_\_  
 Initial Shut-In 15  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  
 Sub Total 1620  Accessibility \_\_\_\_\_  
 Sub Total 1620 MP/DST Disc't \_\_\_\_\_

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





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67102

Well Name & No. Hineman B # 1-20 Test No. 5 Date 9-7-21  
 Company Talon Group Inc. Elevation 2802 KB 2792 GL  
 Address P.O. Box 700 Hays, KS 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19S. Rge. 28W. Co. Lane State Ks.

Interval Tested 4340-4355 Zone Tested LKC "L"  
 Anchor Length 15' Drill Pipe Run 4322. Mud Wt. 9.0  
 Top Packer Depth 4335 Drill Collars Run — Vis 49  
 Bottom Packer Depth 4340 Wt. Pipe Run — WL 8.0  
 Total Depth 4355 Chlorides 3000 ppm System LCM 2#

Blow Description IF - B.O.B (11 inches) @ 2 mins (blow increased to 29")  
TST - Return blow built to 4 3/4"  
FF - B.O.B @ 3 mins (blow increased to 39")  
FSI - Return blow built to 4 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>G50CM</u>	<u>25</u>	<u>5</u>	<u>60</u>	
<u>745</u>	<u>CGO</u>	<u>22</u>	<u>78</u>		
<u>0</u>	<u>310' GIP</u>				

Rec Total 765 BHT 128 Gravity 35.2 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2130  Test 1450 T-On Location 20:20  
 (B) First Initial Flow 92  Jars — T-Started 20:32  
 (C) First Final Flow 145  Safety Joint 75 T-Open 22:08  
 (D) Initial Shut-In 731  Circ Sub — T-Pulled 23:13  
 (E) Second Initial Flow 162  Hourly Standby — T-Out 02:24  
 (F) Second Final Flow 293  Mileage 76 RT 95 Comments —  
 (G) Final Shut-In 643  Sampler —  
 (H) Final Hydrostatic 2097  Straddle —  EM Tool —  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Day Standby — Sub Total 0  
 Accessibility — Total 1620  
 Sub Total 1620 MP/DST Disc't —

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 15  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67103

Well Name & No. Hineman R #1-20 Test No. 6 Date 9-8-21  
 Company Talon Group Inc. Elevation 2802 KB 2792 GL  
 Address P.O. Box 700 Hays, KS. 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19S. Rge. 28W. Co. Lane State KS.

Interval Tested 4383-4398 Zone Tested Pleasanton.  
 Anchor Length 15 Drill Pipe Run 4386 Mud Wt. 9.1  
 Top Packer Depth 4378 Drill Collars Run — Vis 55  
 Bottom Packer Depth 4383 Wt. Pipe Run — WL 7.2  
 Total Depth 4398 Chlorides 3400 ppm System LCM 2#

Blow Description IF - Blow built to 10 1/2"  
IST - Return blow to 1/2"  
FF - B.O.B (11 inches) @ 5 mins (blow increased to 24 3/4")  
ESI - Return blow to 6"

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>600' GMCO</u>	<u>45</u>	<u>35</u>	<u>20</u>	
<u>80</u>	<u>CGO</u>	<u>35</u>	<u>65</u>		
<u>0</u>	<u>600' GIP</u>				

Rec Total 120 BHT 125 Gravity 37.8 API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 2133
- (B) First Initial Flow 28
- (C) First Final Flow 33
- (D) Initial Shut-In 568
- (E) Second Initial Flow 37
- (F) Second Final Flow 57
- (G) Final Shut-In 463
- (H) Final Hydrostatic 2117

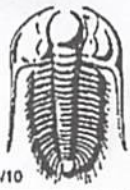
- Test 1450
- Jars —
- Safety Joint 75
- Circ Sub —
- Hourly Standby —
- Mileage 76 RT 95
- Sampler —
- Straddle —
- Shale Packer —
- Extra Packer —
- Extra Recorder —
- Day Standby —
- Accessibility —

T-On Location 12:50  
 T-Started 13:00  
 T-Open 14:43  
 T-Pulled 15:48  
 T-Out 18:05  
 Comments —  
 EM Tool —  
 Ruined Shale Packer —  
 Ruined Packer —  
 Extra Copies —  
 Sub Total 0  
 Total 1620  
 MP/DST Disc't —

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 15  
 Final Shut-In 30

Approved By — Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67104

Well Name & No. Hineman R #1-20 Test No. 7 Date 9-9-21  
 Company Talon Group INC Elevation 2802 KB 2792 GL  
 Address P.O. Box 700 Hays, KS 67601  
 Co. Rep / Geo. Vern Schrag Rig Southwind #8  
 Location: Sec. 20 Twp 19S. Rge. 28W. Co. Lane State KS.

Interval Tested 4618-4651 Zone Tested Miss.  
 Anchor Length 33 Drill Pipe Run 4608 Mud Wt. 9.2  
 Top Packer Depth 4613 Drill Collars Run --- Vis S8  
 Bottom Packer Depth 4618 (Shale) Wt. Pipe Run --- WL 8.0  
 Total Depth 4651 Chlorides 3300 ppm System LCM 1#  
 Blow Description IF - S. blow to 1/2"  
TSI - No return  
FF - No blow  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Feet of GOCM</u>	<u>5</u>	<u>10</u>	<u>85</u>	<u>---</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 30 BHT 125 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2361</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>21:15</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>21:52</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:11</u>
(D) Initial Shut-In <u>1078</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>01:16</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>04:12</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>76 RT.</u> 95	Comments <u>Tools / loaded</u>
(G) Final Shut-In <u>1044</u>	<input type="checkbox"/> Sampler <u>---</u>	<u>00:00</u>
(H) Final Hydrostatic <u>2277</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> EM Tool <u>---</u>
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1870</u>
	Sub Total <u>1870</u>	MP/DST Disc't <u>---</u>

Approved By \_\_\_\_\_ Our Representative [Signature]

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

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67674

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 21:10:00

## GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:19:30

Time Test Ended: 04:33:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4268.00 ft (KB) To 4281.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4281.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 66.64 psig @ 4269.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.05

End Date:

2021.09.06

Last Calib.:

2021.09.06

Start Time: 21:10:01

End Time:

04:33:50

Time On Btm:

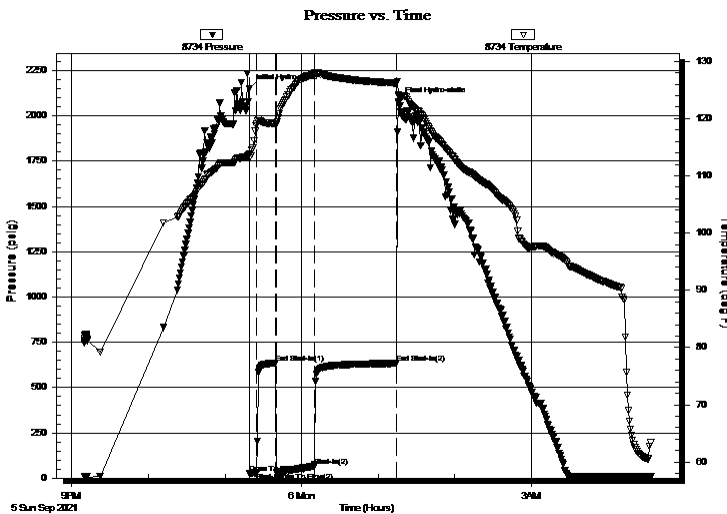
2021.09.05 @ 23:19:20

Time Off Btm:

2021.09.06 @ 01:16:10

**TEST COMMENT:** 5-IF-S.blow to 1 1/2"  
15-ISI-No return  
30-FF-S.blow built to 4"  
60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.41	113.83	Initial Hydro-static
1	24.56	113.14	Open To Flow (1)
6	31.28	119.06	Shut-In(1)
21	634.72	119.15	End Shut-In(1)
21	31.03	118.94	Open To Flow (2)
51	66.64	127.97	Shut-In(2)
115	633.15	126.18	End Shut-In(2)
117	2079.30	124.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
99.00	SOSMW 2%O, 20%M, 78%W	1.39
1.00	CO 100% O	0.01

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67674

**DST#: 2**

ATTN: Vern Schrag

Test Start: 2021.09.05 @ 21:10:00

## 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:

31000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
99.00	SOSMW 2%O, 20%M, 78%W	1.389
1.00	CO 100% O	0.014

Total Length: 100.00 ft      Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

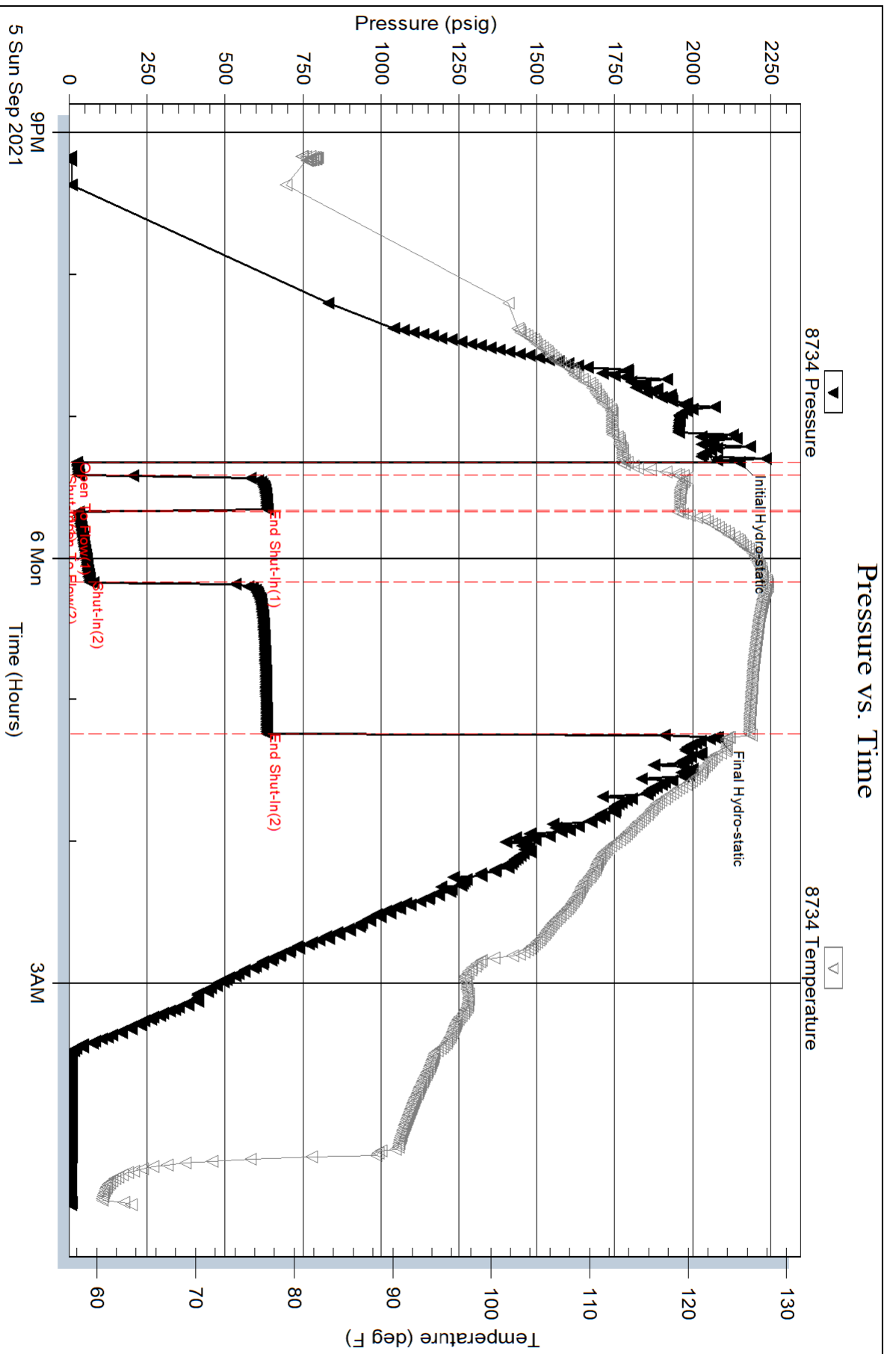
Laboratory Name:

Laboratory Location:

Recovery Comments: Not enough oil to catch gravity

RW=.255 @ 63.1 degs = 31,000PPM





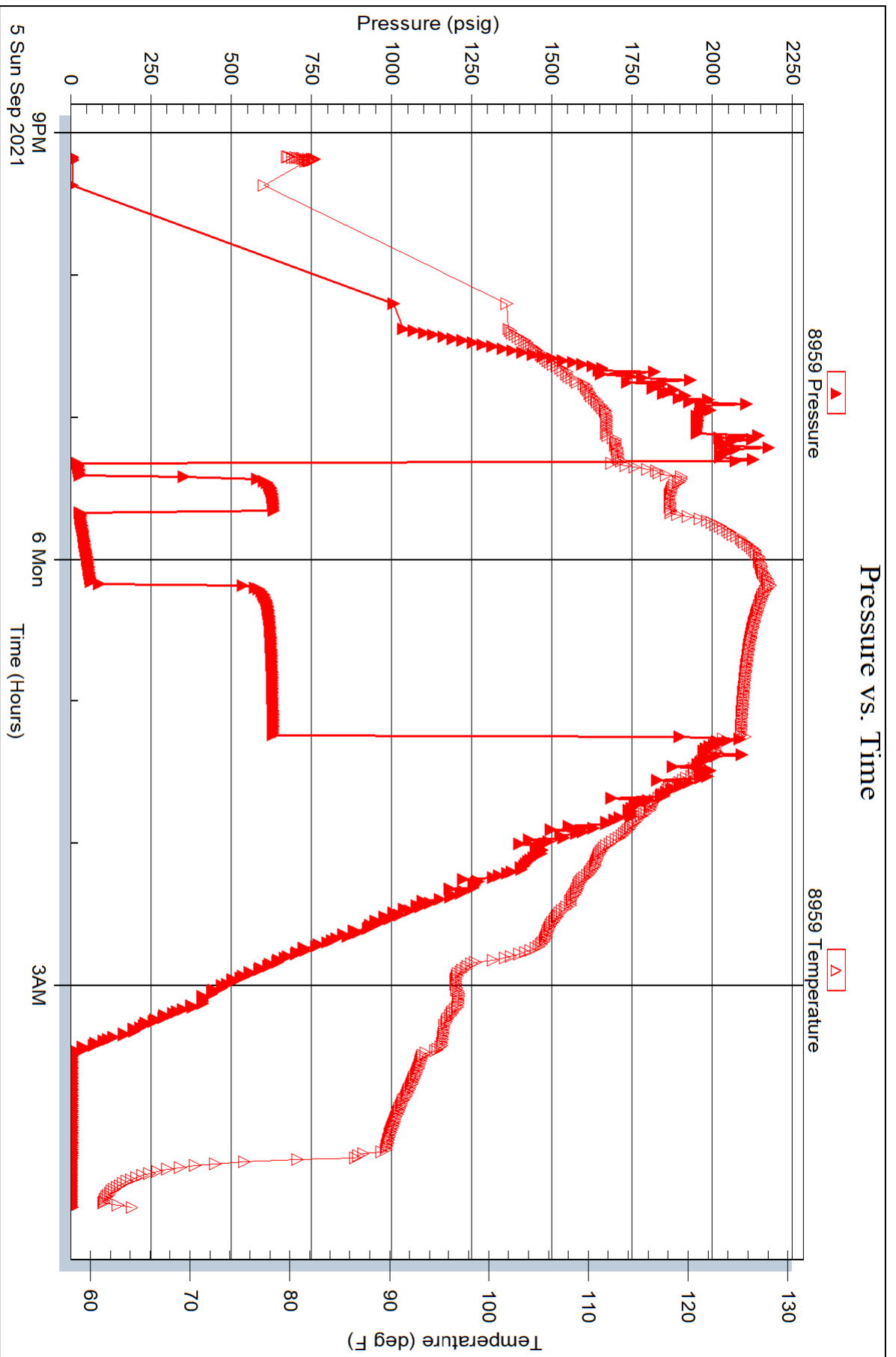
Serial #: 8959

Inside

Talon Group INC

Hineman R # 1-20

DST Test Number: 2





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC

**20-19S.-28W. Lane, KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

## GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:00

Time Test Ended: 20:24:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4302.00 ft (KB) To 4311.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4311.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 474.62 psig @ 4303.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.06 End Date: 2021.09.06

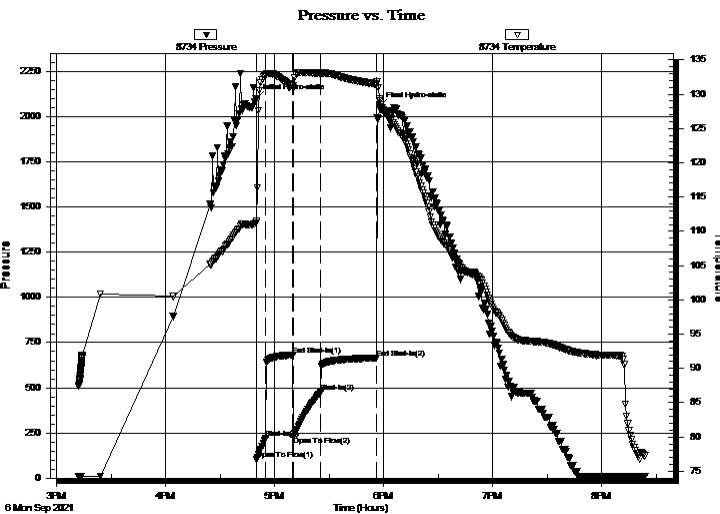
Last Calib.: 2021.09.06

Start Time: 15:12:01 End Time: 20:24:10

Time On Btm: 2021.09.06 @ 16:49:40

Time Off Btm: 2021.09.06 @ 17:57:50

**TEST COMMENT:** 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 26 1/4")  
15-ISI-Surface return blow @ 5 mins  
15-FF-B.O.B @ 2 mins (blow increased to 54 1/2")  
30-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.97	111.22	Initial Hydro-static
1	105.30	111.46	Open To Flow (1)
6	221.26	132.78	Shut-In(1)
21	681.28	131.23	End Shut-In(1)
21	232.35	130.82	Open To Flow (2)
36	474.62	133.01	Shut-In(2)
67	664.57	131.43	End Shut-In(2)
69	2055.95	128.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
820.00	MSW 1%M, 99%W	11.50
180.00	MCW 25%M, 75%W	2.52

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

## GENERAL INFORMATION:

Formation: **LKC " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:50:00

Time Test Ended: 20:24:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4302.00 ft (KB) To 4311.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4311.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: psig @ 4303.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.06 End Date: 2021.09.06

Last Calib.: 2021.09.06

Start Time: 15:12:01 End Time: 20:24:10

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 26 1/4")

15-ISI-Surface return blow @ 5 mins

15-FF-B.O.B @ 2 mins (blow increased to 54 1/2")

30-FSI-No return

## PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
820.00	MSW 1%M, 99%W	11.50
180.00	MCW 25%M, 75%W	2.52

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67675

**DST#: 3**

ATTN: Vern Schrag

Test Start: 2021.09.06 @ 15:12:00

### 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:

42000 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
820.00	MSW 1%M, 99%W	11.502
180.00	MCW 25%M, 75%W	2.525

Total Length: 1000.00 ft      Total Volume: 14.027 bbl

Num Fluid Samples: 0

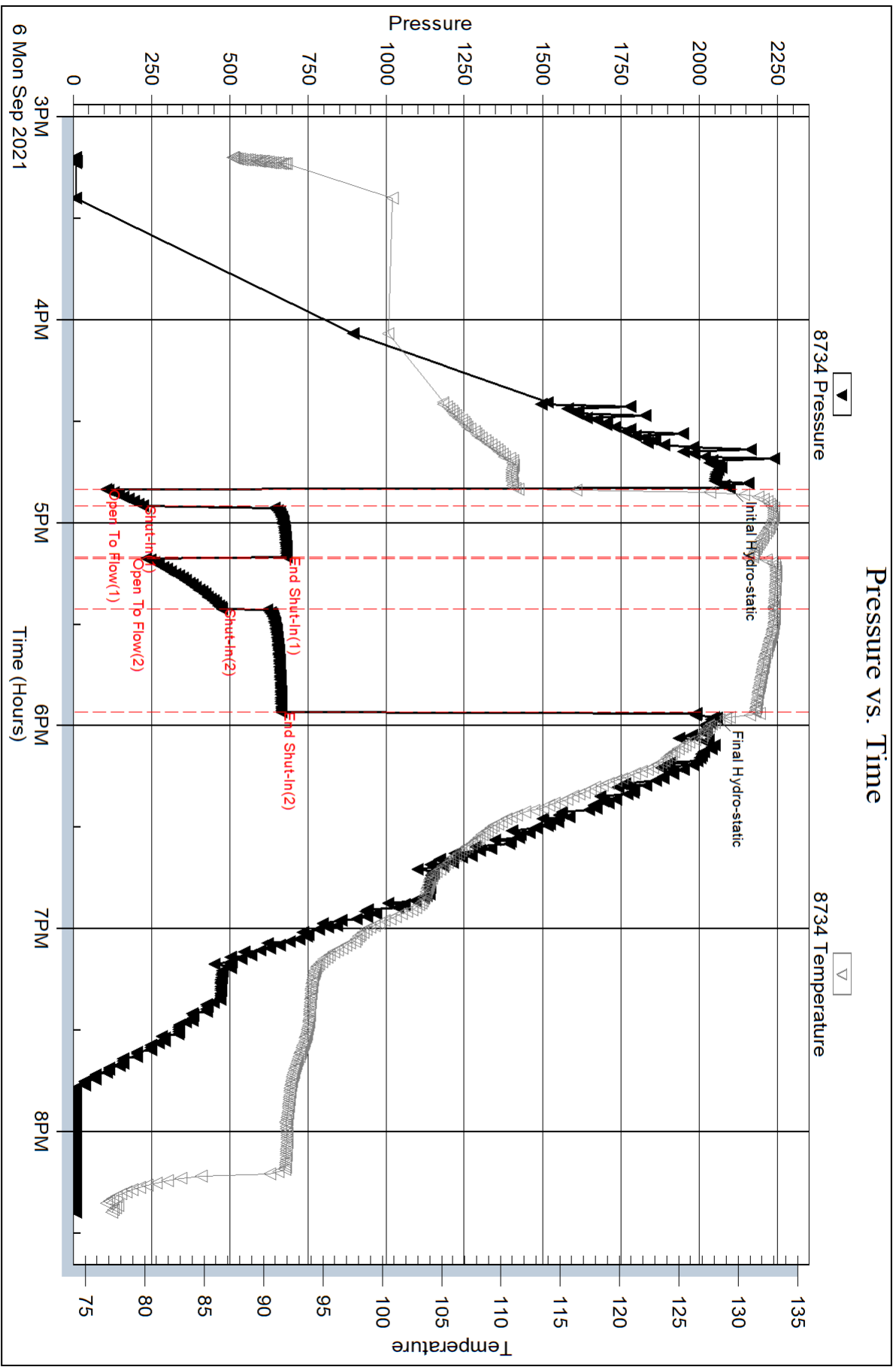
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .145 @ 84.8 DEGS = 42,000 ppm



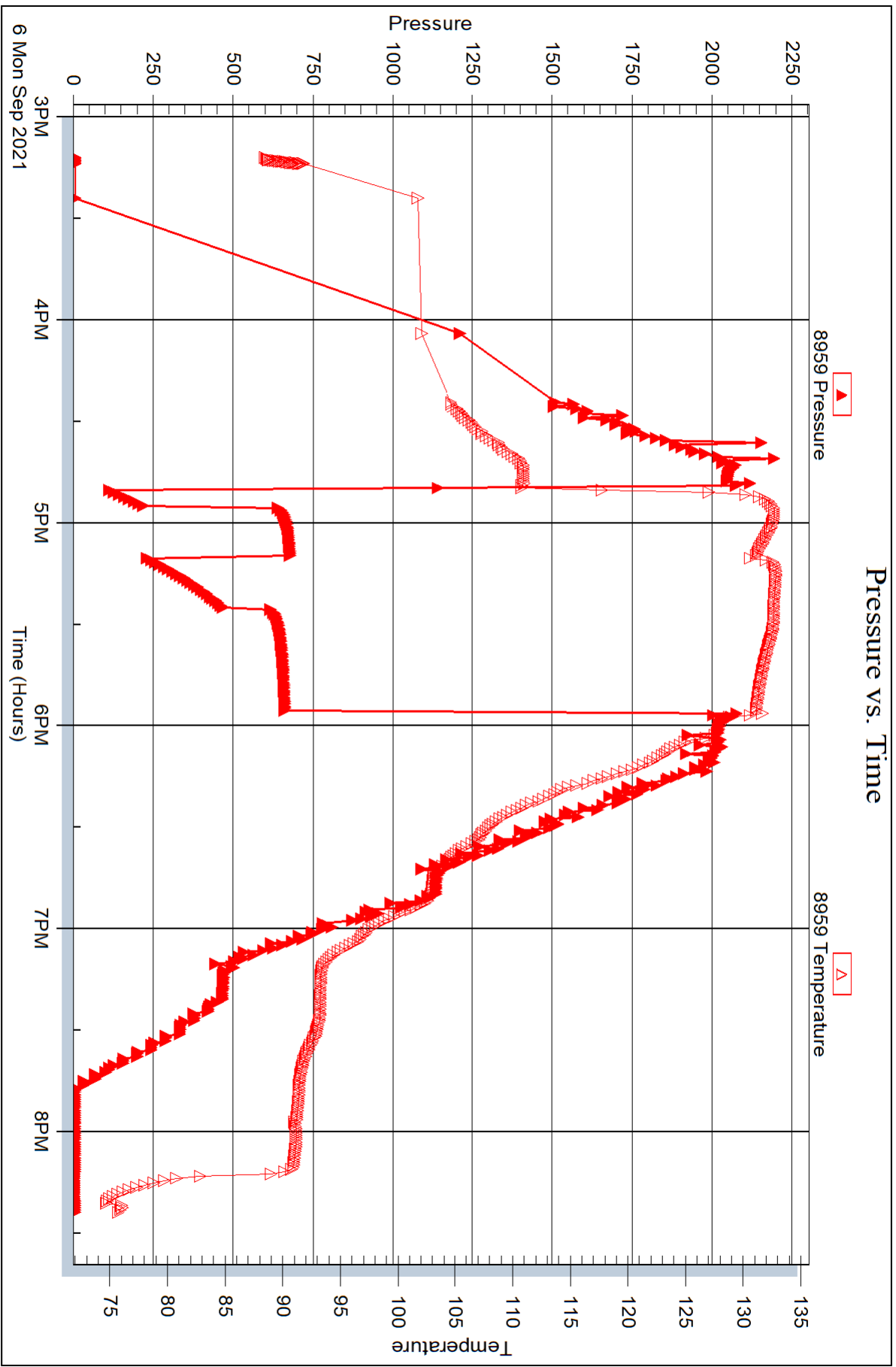
Serial #: 8959

Inside

Talon Group INC

Hineman R # 1-20

DST Test Number: 3





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67101

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 07:35:00

## GENERAL INFORMATION:

Formation: **LKC " K2"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:17:00

Time Test Ended: 13:14:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: **4327.00 ft (KB) To 4347.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4347.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 60.35 psig @ 4328.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.07 End Date: 2021.09.07

Last Calib.: 2021.09.07

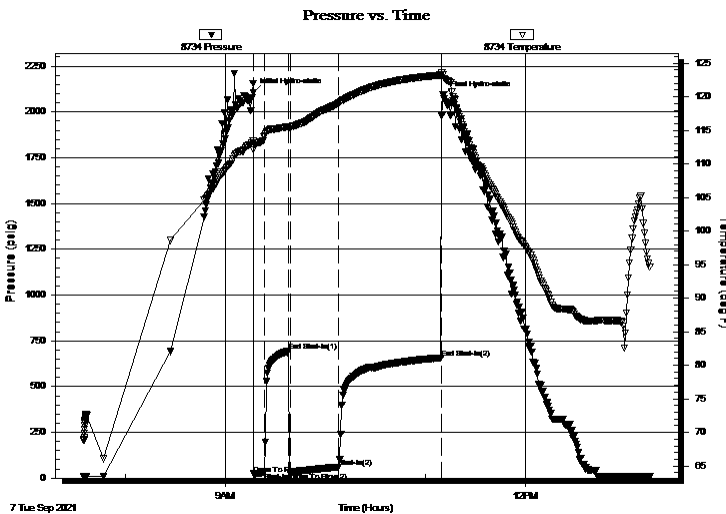
Start Time: 07:35:01 End Time: 13:14:50

Time On Btm: 2021.09.07 @ 09:16:50

Time Off Btm: 2021.09.07 @ 11:10:40

**TEST COMMENT:** 5-IF-S.blow built to 1 1/4"  
15-ISI-No return  
30-FF-S.blow built to 2 1/2"  
60-FSI-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.68	113.20	Initial Hydro-static
1	22.84	112.06	Open To Flow (1)
7	30.42	114.15	Shut-In(1)
22	692.29	115.56	End Shut-In(1)
22	32.02	115.51	Open To Flow (2)
52	60.35	119.05	Shut-In(2)
113	656.90	123.22	End Shut-In(2)
114	2091.64	123.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
88.00	HMCW 40%M, 60%W	1.23
2.00	CO 100%O	0.03

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67101

**DST#: 4**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 07:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
88.00	HMCW 40%M, 60%W	1.234
2.00	CO 100%O	0.028

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

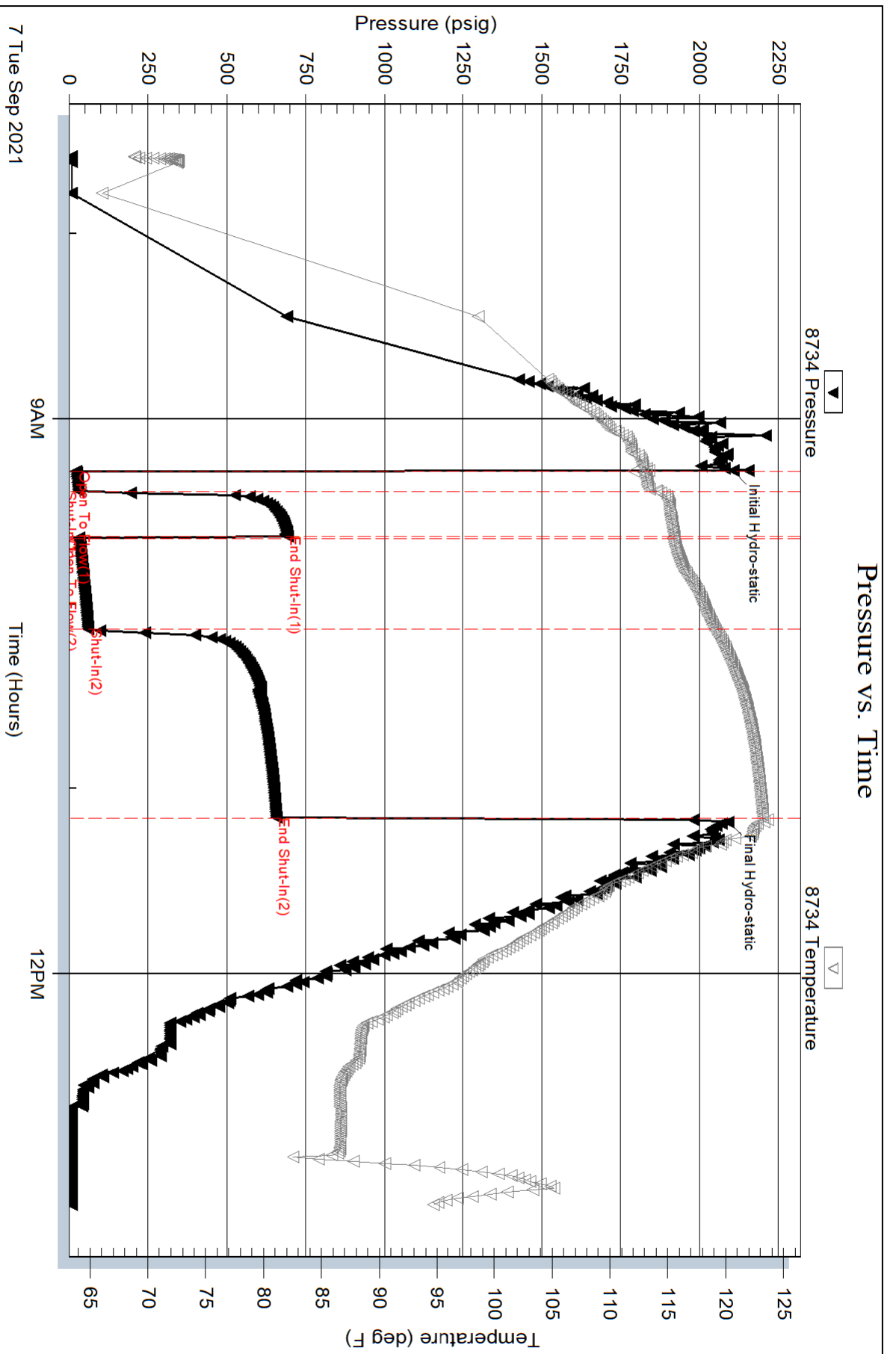
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 41 @ 88 degs corrected to 38.2 @ 60 degs

RW= .192 @ 86 degs = 30,000 PPM





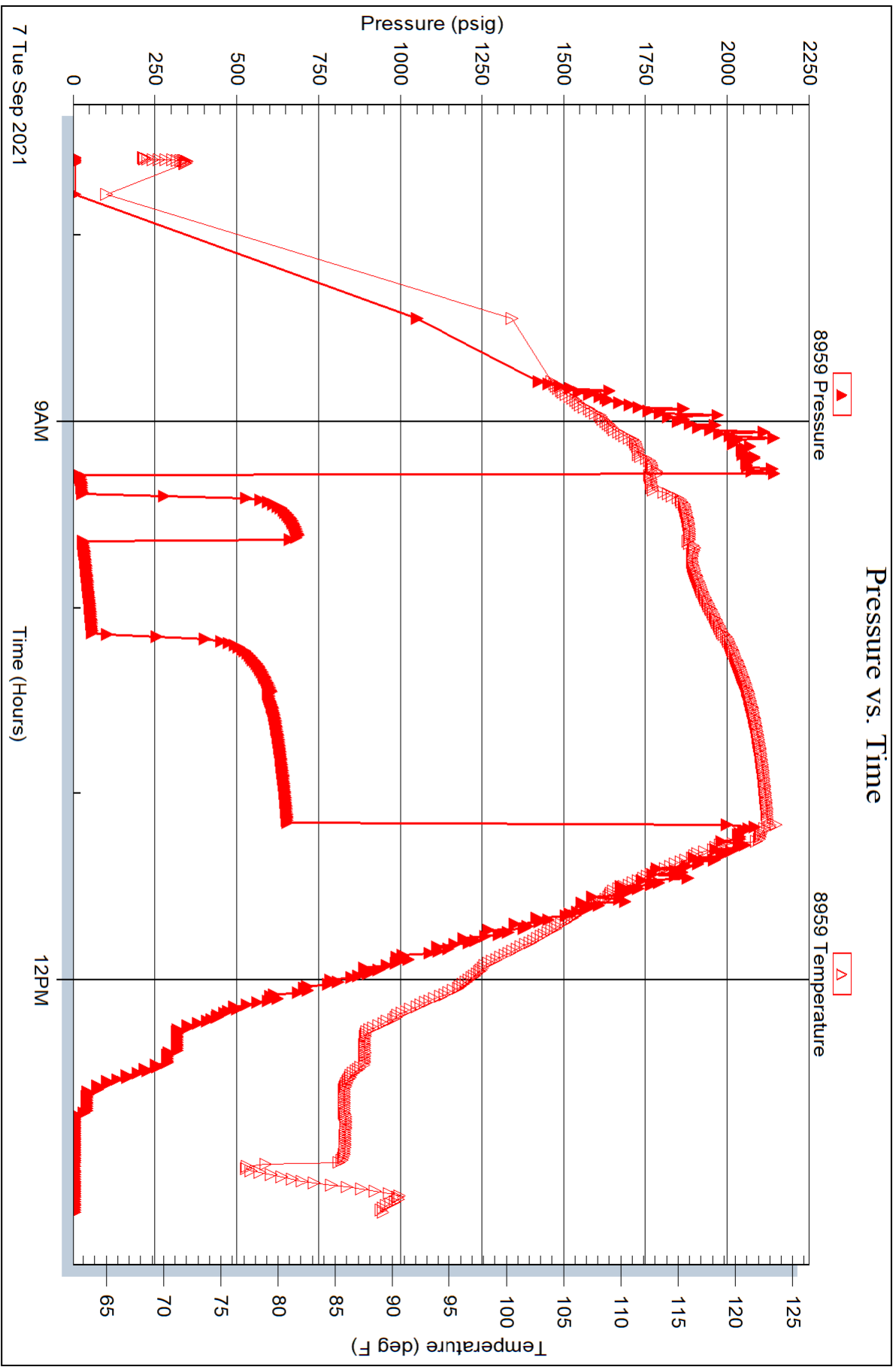
Serial #: 8959

Inside

Talon Group INC

Hineman R # 1-20

DST Test Number: 4





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC

**20-19S.-28W. Lane, KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67102

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 20:30:00

## GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:08:30

Time Test Ended: 02:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4340.00 ft (KB) To 4355.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4355.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 293.19 psig @ 4341.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.07 End Date: 2021.09.08

Last Calib.: 2021.09.08

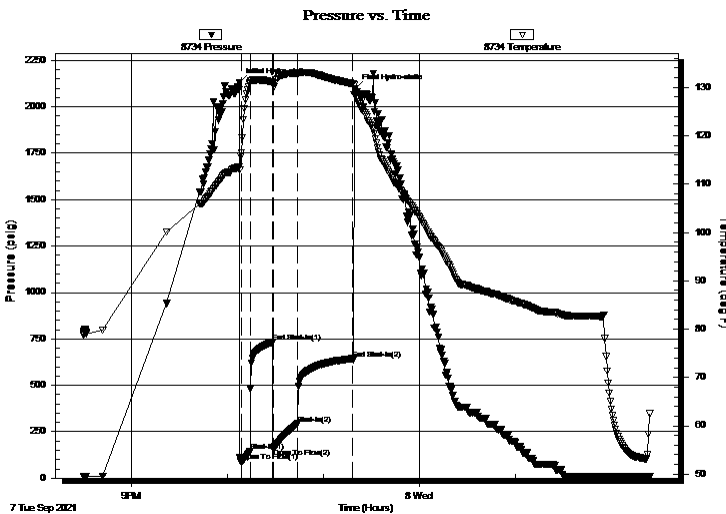
Start Time: 20:30:01 End Time: 02:24:00

Time On Btm: 2021.09.07 @ 22:07:30

Time Off Btm: 2021.09.07 @ 23:19:40

**TEST COMMENT:** 5-IF-B.O.B (11 inches) @ 2 mins (blow increased to 29")  
15-ISI-Return blow built to 4 3/4"  
15-FF-B.O.B @ 3 mins (blow increased to 39")  
30-FSI-Return blow built to 4 3/4"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.65	113.63	Initial Hydro-static
1	91.56	116.53	Open To Flow (1)
7	144.58	130.96	Shut-In(1)
21	730.64	131.01	End Shut-In(1)
21	161.63	130.39	Open To Flow (2)
37	293.19	132.87	Shut-In(2)
71	643.42	130.76	End Shut-In(2)
73	2097.45	128.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 35%G, 5%O, 60%M	0.28
745.00	CGO 22%G, 78%O	10.45
0.00	310' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67102

**DST#: 5**

ATTN: Vern Schrag

Test Start: 2021.09.07 @ 20:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GSOCM 35%G, 5%O, 60%M	0.281
745.00	CGO 22%G, 78%O	10.450
0.00	310' GIP	0.000

Total Length: 765.00 ft      Total Volume: 10.731 bbl

Num Fluid Samples: 0

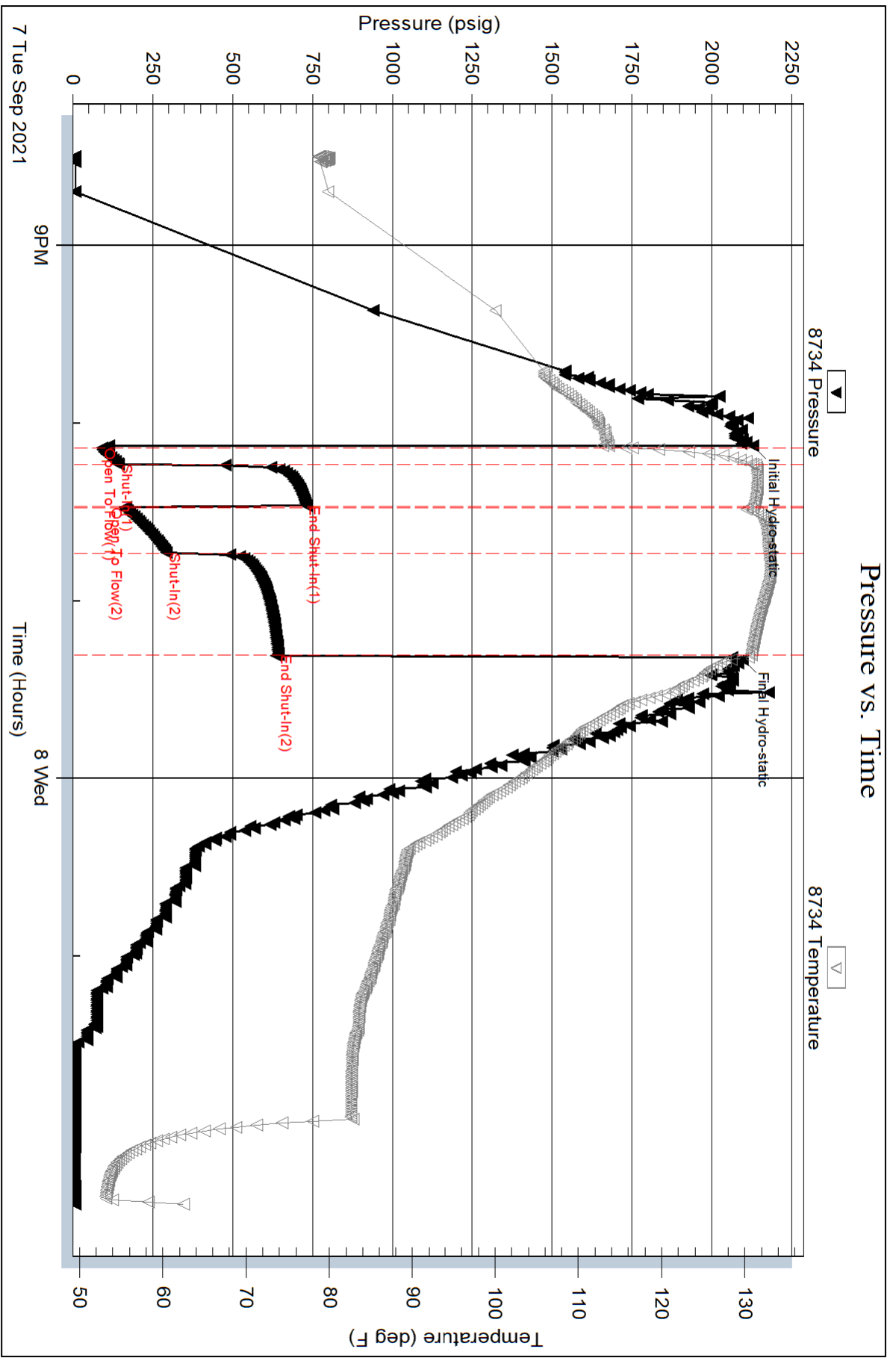
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 35.2 @ 60 degs







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Talon Group INC

**20-19S.-28W. Lane, KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67103

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2021.09.08 @ 13:00:00

## GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:42:40

Time Test Ended: 18:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4383.00 ft (KB) To 4398.00 ft (KB) (TVD)**

Reference Elevations: 2802.00 ft (KB)

Total Depth: 4398.00 ft (KB) (TVD)

2792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8734 Outside**

Press@RunDepth: 57.49 psig @ 4384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.09.08 End Date: 2021.09.08

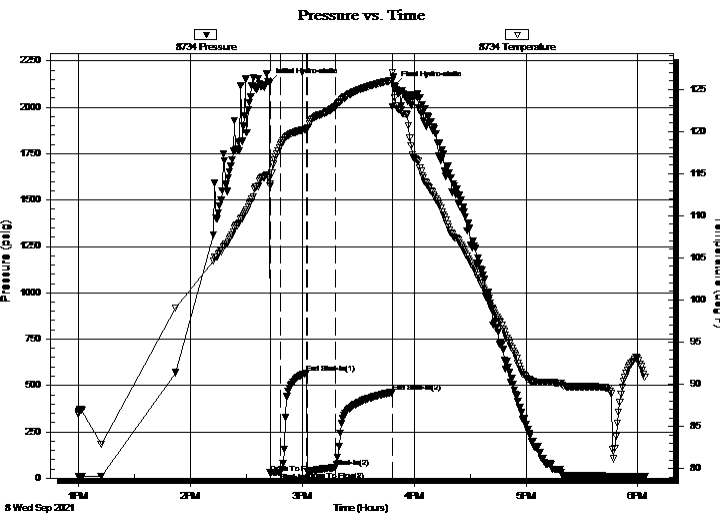
Last Calib.: 2021.09.08

Start Time: 13:00:01 End Time: 18:04:00

Time On Btm: 2021.09.08 @ 14:42:30

Time Off Btm: 2021.09.08 @ 15:49:20

**TEST COMMENT:** 5-IF-Blow built to 10 1/2"  
15-ISI-Return blow to 1/2"  
15-FF-B.O.B (11 inches) @ 5 mins (blow increased to 24 3/4")  
30-FSI-Return blow to 6"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.58	114.44	Initial Hydro-static
1	28.02	113.56	Open To Flow (1)
6	33.12	118.40	Shut-In(1)
20	567.54	120.28	End Shut-In(1)
21	37.16	120.34	Open To Flow (2)
36	57.49	122.97	Shut-In(2)
66	462.66	126.04	End Shut-In(2)
67	2116.86	125.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO 45%G, 20%M 35%O	0.56
80.00	CGO 35%G, 65%O	1.12
0.00	600' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Talon Group INC

**20-19S.-28W. Lane,KS**

P.O. Box 700  
Hays, KS 67601

**Hineman R # 1-20**

Job Ticket: 67103

**DST#: 6**

ATTN: Vern Schrag

Test Start: 2021.09.08 @ 13:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GMCO 45%G, 20%M 35%O	0.561
80.00	CGO 35%G, 65%O	1.122
0.00	600' GIP	0.000

Total Length: 120.00 ft      Total Volume: 1.683 bbl

Num Fluid Samples: 0

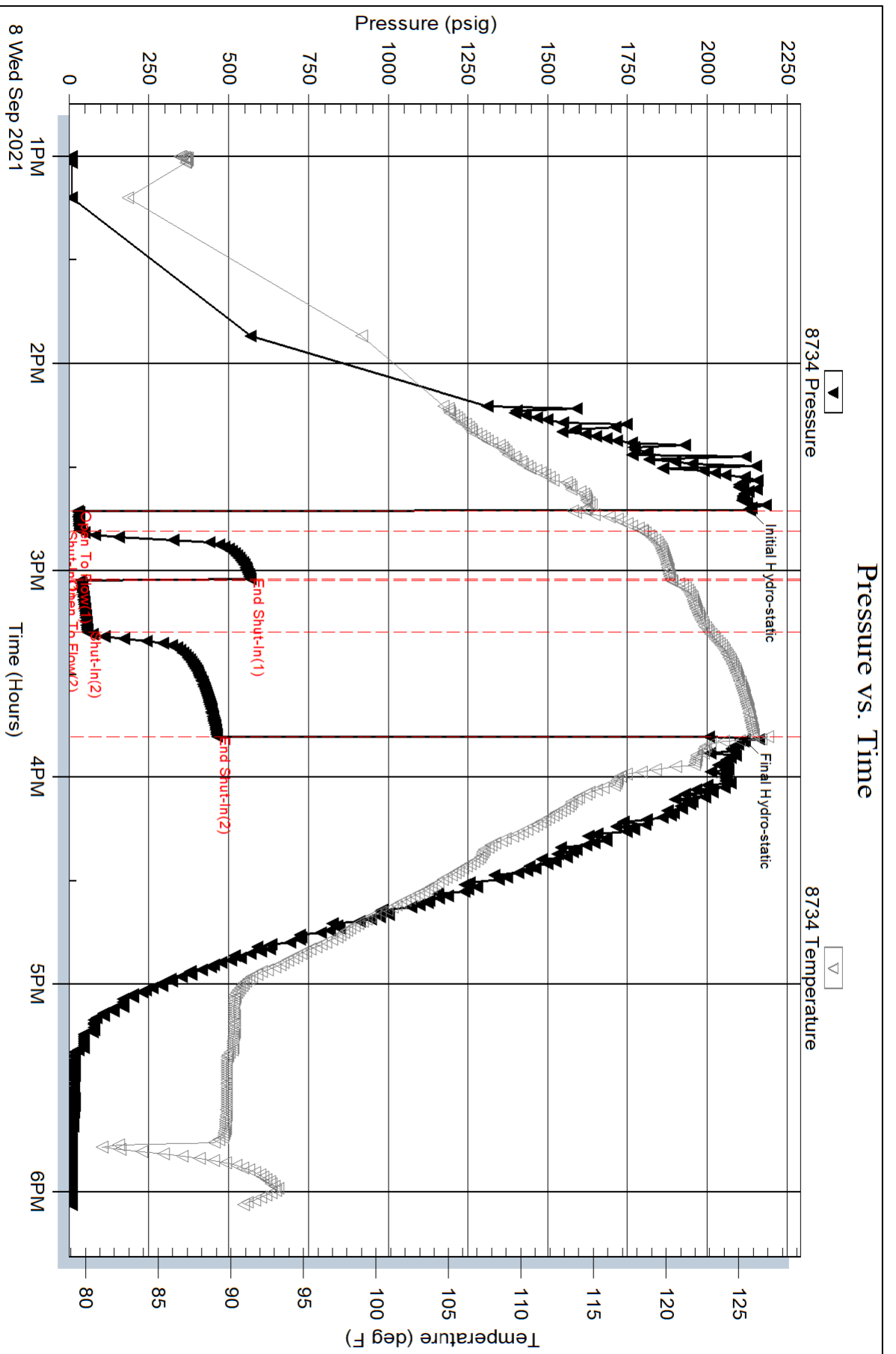
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 40.2 @ 84 degs corrected to 37.8 @ 60 degs



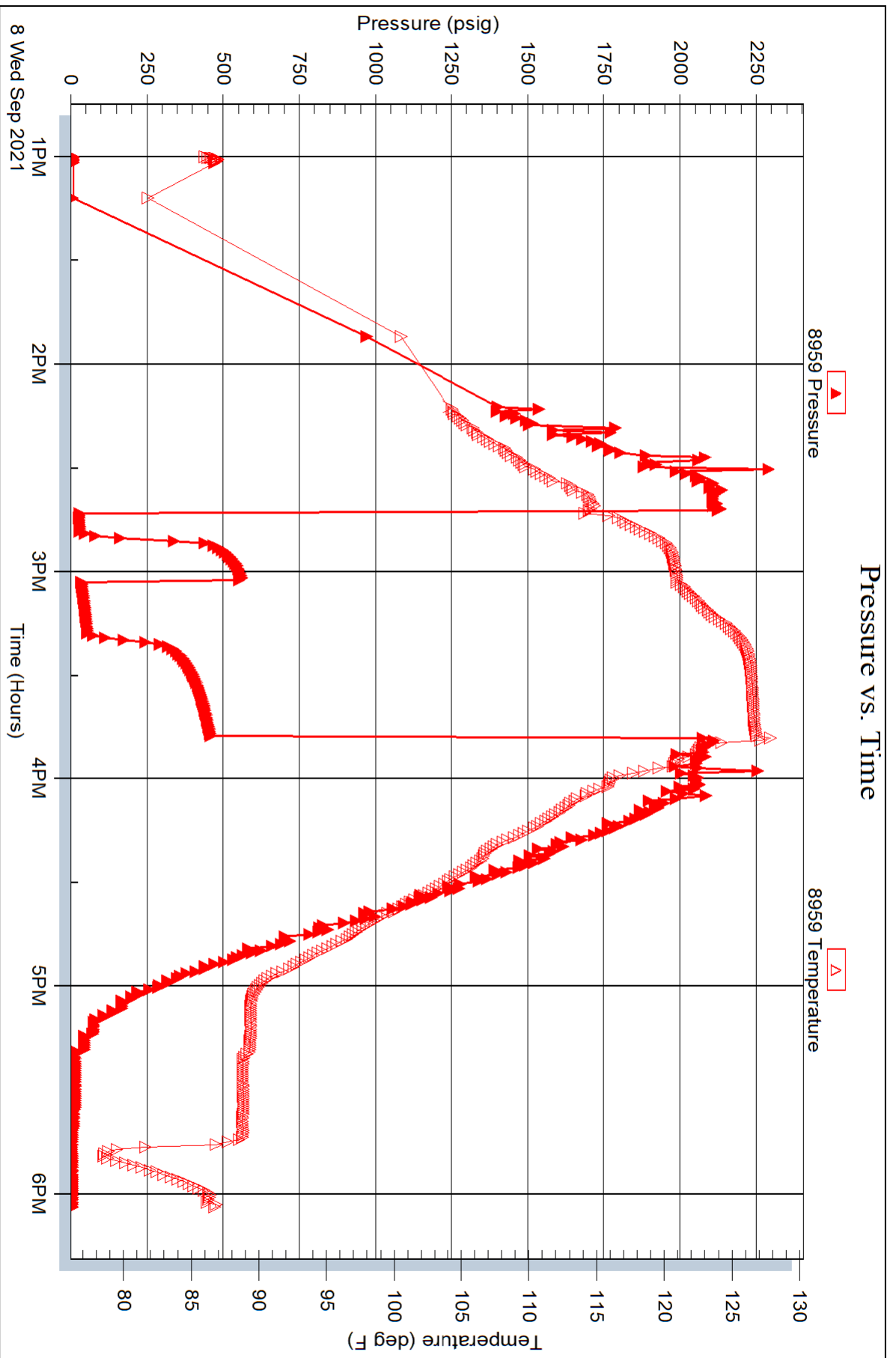
Serial #: 8959

Inside

Talon Group INC

Hineman R # 1-20

DST Test Number: 6





Services, Inc.

CHARGE TO: Talou Group

TICKET 33645

ADDRESS

CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Ness City, KS  
 2. Wess City, KS  
 3. Southwood  
 4. Development

WELL PROJECT NO. 1-23  
 LEASE Hiveman R  
 COUNTY/PARISH Lane  
 STATE KS  
 CITY Dighton  
 DATE 8-30-2021  
 OWNER Ness City, KS

TICKET TYPE  SERVICE  SALES  
 CONTRACTOR Southwood  
 RIG NAME/NO. #8  
 SHIPPED VIA CT  
 DELIVERED TO Location  
 ORDER NO.

WELL TYPE O1  
 WELL CATEGORY Development  
 JOB PURPOSE Surface Pipe  
 WELL PERMIT NO.

WELL LOCATION Dighton Co. S, 2-E  
 REFERRAL LOCATION Southwood

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCUOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.		UNIT		AMOUNT
						U/M	U/M	PRICE		
575					MILEAGE <u>TK #112</u>	40	mi	6	¢	240
5765					<u>Pump Charge - SURFACE</u>	1	yrh	1000	¢	1000
8325					<u>Standard CMT</u>	170	lbs	14	¢	2465
279					<u>Benzonure Gel</u>	3	skts	30	¢	90
278					<u>Calcium Chloride</u>	8	skts	40	¢	320
276					<u>Fluocel</u>	50	lbs	3	¢	150
290					<u>D-Air</u>	2	gal	42	¢	84
581					<u>CMT Service Charge</u>	170	skts	2	¢	340
583					<u>Drayage</u>	16750	lbs	335	¢	335

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED 8-30-2021 TIME SIGNED 1:45  A.M.  P.M.

SWIFT OPERATOR Juditha Fuchs

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1

TOTAL 5259.18

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

APPROVAL Juditha Fuchs

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-30-2023 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Talon Group		1-23		Hineman R		Surface Pipe		33645	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
								ON LOCATION 9 5/8" 2016/ft	
								RTD: 274'	
	1200							START 9 5/8" Csg in Well	
	1245							Break Circulation	
	1255	4 1/2			✓	230		Pump 5 bbl H <sub>2</sub> O Spacer	
	1300	4	41		✓	150		Mix 170 sks of Standard CMT w/ 2% gel + 3% CC @ 14.7ppg	
	1310	4 1/2	0		✓	100		START Displacement	
		4 1/2	13.5		✓	300		Circulate CMT to Surface	
	1315	-	17		✓	200		KO Pump *Shut in* - Release PSE *Hold* - 15sks to pit	
	1320							Wash up Tck #112	
	1352							Job Complete	
								170 sks of Standard CMT w/ 2% gel + 3% CC used *15 sks to the Pit* - Plug Down 1:15 PM CST	
								THANKS!	
								Budean, Kwoj, Shane	



# Services, Inc.

CITY, STATE, ZIP CODE

**SERVICE LOCATIONS**

1. Ness City, KS      WELL PROJECT NO. 1-20      LEASE HINEMAN R      COUNTY/PARISH LANE      STATE KS      CITY Dighton      DATE 9-17-2001      OWNER

2. Cheyenne      CONTRACTOR Cheyenne      RIG NAME NO. 1      SHIPPED VIA CR      DELIVERED TO LOCATION      ORDER NO.

3. Development      WELL-CATEGORY Development      JOB PURPOSE Perf Collar      WELL PERMIT NO. S-11110      WELL LOCATION Dighton, 6-S, 2-E

4. REFERRAL LOCATION      INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT		
		LOC	ACCT	DF		QTY.	UM	QTY.			UM	
576					MILEAGE <u>Trk #112</u>				40	mi	6.00	240.00
576D					<u>Pump Charge - Perf Collar</u>				1	job	1,500.00	1,500.00
330					<u>Swift Multi-Density Cement</u>				196	lbs	18.00	3,510.00
276					<u>Fluocel</u>				75	lbs	3.00	225.00
290					<u>D-Air</u>				4	gal	42.00	168.00
275					<u>Cotton Seed Hulls</u>				1	sk	35.00	35.00
581					<u>CMT Service Charge</u>				300	sk	2.00	600.00
583					<u>Drayage</u>				29,850	lbs	597.71	17,825.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED 9-17-2001      TIME SIGNED 11:00       A.M.       P.M.

**REMIT PAYMENT TO:**  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1      TOTAL 7170.35

SWIFT OPERATOR Judson Ford      APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE  
9-17-2001  
TICKET NO:  
33894

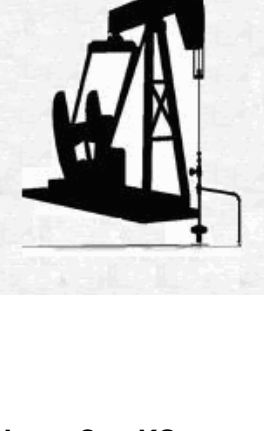
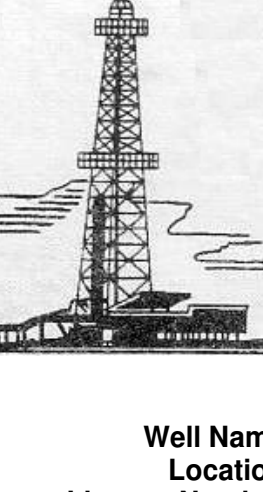
CUSTOMER  
Talon Group  
WELL NO.  
1-20  
LEASE  
Hineman R  
JOB TYPE  
Port Collar

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							ON Location 2 3/8" x 4 1/2"
								PC: 2021"
	0855	Ø			✓		1,000	P Test BS to 1,000 PSI
	<del>0906</del>							Open PC
	0910	Ø 4	4		✓		500	Injection Rate
	0915	3 1/2	108		✓		700	Mix 195 sks @ 11.2 ppg * Circulate CMT to Surface * ~ 15 sks to the P.E
		3 1/2	6.75		✓		700	Displace CMT
	0955							Close PC P Test on hb to 1,000 PSI
	1000							Run 3 Jts
	1010	3	30		✓		800	Reverse Clean
	1015							Washup Trk #112
	1045							Job Complete
								195 sks of SMD 1/4" FLO used 50lbs of Cotton Seed Hulls in first 50 sks * 15 sks to the P.E *
								Thanks!
								Gideon Kurby, Jr. <i>[Signature]</i>

WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG  
CONSULTANT GEOLOGIST

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



Well Name: HINEMAN R 1-20  
Location: N2 NE SE SE SEC. 20-T19S-R28W  
Licence Number: API: 15-101-22656  
Spud Date: August 30, 2021  
Surface Coordinates: 330' FEL & 1170' FSL  
Region: Lane Co., KS  
Drilling Completed: September 10, 2021

Bottom Hole Coordinates:  
Ground Elevation (ft): 2792' K.B. Elevation (ft): 2802'  
Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4651'  
Formation: Mississippi  
Type of Drilling Fluid: Chemical Premix (Displaced)  
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: TALON GROUP, LLC  
Address: P.O. Box 700  
Hays, KS 67601

DRILLING CONTRACTOR:

Southwind Drilling Co., Rig #8  
DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8", 513.02', Kelly 40.00', Tool Joint 5.5" ; Bit: JZ HA21-Q, 7-7/8", standard jets 15-15-15; rpm 80, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

CASING:

Ran 6 joints of new 20#, 8 5/8" casing, Tally @ 259', Set @ 271'

CIRCULATION SYSTEM:

Continental EMSCO D-375, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Reid Atkins.

OPEN HOLE LOGS:

DN (DGA), DI (SP) (Run-1); ML (Run-2); No Sonic; 5" detail LTD-3700; 2" DI to surface casing; Midwest Wireline, Hays, KS, Tim Martin.

DRILL STEM TESTS:

Trilobite Testing, Inc., Scott City, KS, Martine Salinas.

Table with columns: ROP (min/ft) Five Ten, DST, Lithology, Depth, Geological Descriptions, Total Gas (TG units) Fifty One. The table contains detailed well log data from 0 to 4651 feet depth, including lithological descriptions, ROP curves, and gas flow data.