

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

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

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](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) (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	Murfin Drilling Co., Inc.
Well Name	SCHMIDT-VAP 'A' 2-26
Doc ID	1377132

All Electric Logs Run

DIL
DUCP
MEL
BHCS







**TREATMENT REPORT**



**HURRICANE SERVICES INC**

TIME	INJECTION RATE FLUID	N <sub>2</sub> /CO <sub>2</sub>	PRESSURE STP	ANNULUS	REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
9:17 PM					Shut Down Release LD Plug			
					Wash UP TRUCK			
9:22 PM	6.5		200.0		Start Displacement 2% KCL			
	6.0		500.0		Lift Pressure			26.00
	6.0		1,500.0		Slow Rate			90.00
	3.0		1,800.0		Land Plug			108.07
9:46 PM			2,000.0		Pressure Up			
9:47 PM					Release Pressure			
					Float Held			
					Flow Back 3/4 BBL			
					Circulate 5 BBL's To Pit			
10:15 PM					Off Location			
					THANK YOU			
					PLEASE CALL AGAIN			
					BRAD TODD CODY DARREN ZACH			
					Lead 300 Sacks H-Con 3% CC 1/2 LB/SK Phen-seal			
					Tail 200 Sack H-Long 1% Gel 10% Salt 6 LB/SK Koseal			
					.6% CFL-160 .25% CAF-38			

Schmidt-Vap 'A' #2-26  
 330' FNL 330' FWL  
 Sec. 26-4S-31W  
 2947' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref
Anhydrite	2705	+242	-6	2703	+244	-4
B/Anhydrite	2740	+207	-8	2736	+211	-4
Topeka	3772	-825	-8	3767	-820	-3
Heebner	3936	-989	-8	3931	-984	-3
Lansing	3982	-1035	-5	3980	-1033	-3
Stark	4159	-1212	-14	4149	-1202	-4
Mound City	4205	-1258	-12	4196	-1249	-3
Ft Scott	4311	-1364	-11	4307	-1360	-7
Oakley	4402	-1455	-13	4397	-1450	-8
Mississippi	4524	-1577	-15	4512	-1565	-3
RTD	4564	-1617				
LTD				4560	-1613	



# Saman Sharifaie

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY: **Murfin Drilling Co., Inc.**  
LEASE: **Schmidt-Van #A-#1-26**  
WELL: **Wildcat**  
LOCATION: **330' ENL & 330' FWL**  
SEC: **26** TWSWP: **4S** RGE: **31W**  
COUNTY: **Randolph** STATE: **Kansas**  
CONTRACTOR: **Murfin Drilling #24**  
SPUD: **10/1/17** COMP: **10/2/17**  
RTD: **4/5/17** TYPE MUD: **Chemical**  
MUD UP: **3.1/2"**

ELEVATIONS  
KB 2947'  
DF \_\_\_\_\_  
GL 2942'  
Measurements Are All From Kelly Bushing

CASING  
CONDUCTOR \_\_\_\_\_  
SURFACE 8-5/8" at 260'  
PRODUCTION 5-1/2" at 4562'

SAMPLES SAVED FROM 3660' TO RTD  
DRILLING TIME KEPT FROM 3660' TO RTD  
SAMPLES EXAMINED FROM 3660' TO RTD

GEOLOGICAL SUPERVISION FROM 3360'  
CND/DILL. M.E.L. Smith  
REFERENCE WELL: Schmidt-Van #A-#1-26  
*Fluorite* *Hydrilite*

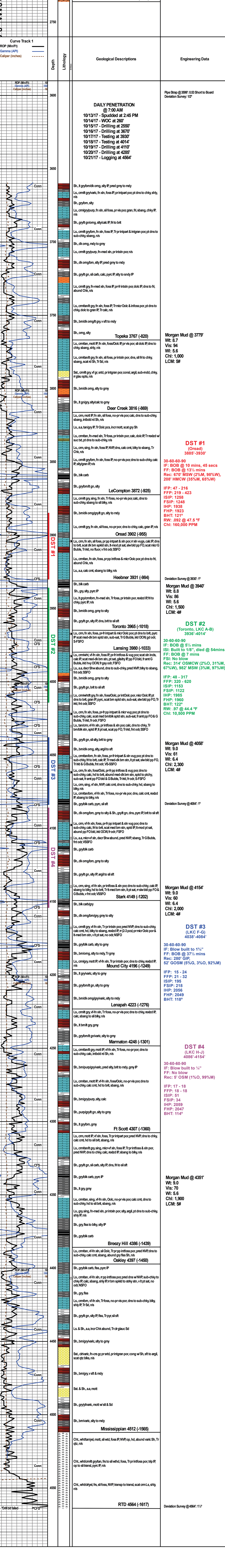
Formation	Sample Tops	E-log Tops	Strat Post.
Anhydrite	2705 (+242)	2703 (+244)	-4
Base Anhydrite	2740 (+207)	2736 (+211)	-4
Tuscarora	3727 (+825)	3767 (+820)	3
Hickory	3936 (+616)	3931 (+616)	-5
Leedster	3982 (+570)	3980 (+573)	-3
Summit	4139 (+413)	4149 (+402)	-4
Mound City	4205 (+347)	4196 (+356)	-3
FT Scott	4311 (+241)	4307 (+246)	-3
Mississippi	4524 (+27)	4512 (+156)	-3



REMARKS: Despite poor shows of oil in multiple potential pay zones and negative DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well and to possibly use it for injection purposes.

Respectfully Submitted,  
Saman Sharifaie  
Petroleum Geologist

API #15-153-21203  
\*Tops have been adjusted to electric logs



Drill bit failed



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Saman Sharifaie

**Schmidt-Vap"A" #2-26**

**26- 4S.-31W Rawlins,ks**

Start Date: 2017.10.16 @ 23:57:00

End Date: 2017.10.17 @ 08:29:10

Job Ticket #: 63157                      DST #: 1

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

Printed: 2017.10.23 @ 10:07:54



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co INC

**26- 4S. -31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63157

**DST#: 1**

ATTN: Saman Sharifaie

Test Start: 2017.10.16 @ 23:57:00

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:06:30

Time Test Ended: 08:29:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

**Interval: 3885.00 ft (KB) To 3930.00 ft (KB) (TVD)**

Reference Elevations: 2947.00 ft (KB)

Total Depth: 3930.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 422.88 psig @ 3886.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.16

End Date:

2017.10.17

Last Calib.: 2017.10.17

Start Time: 23:57:01

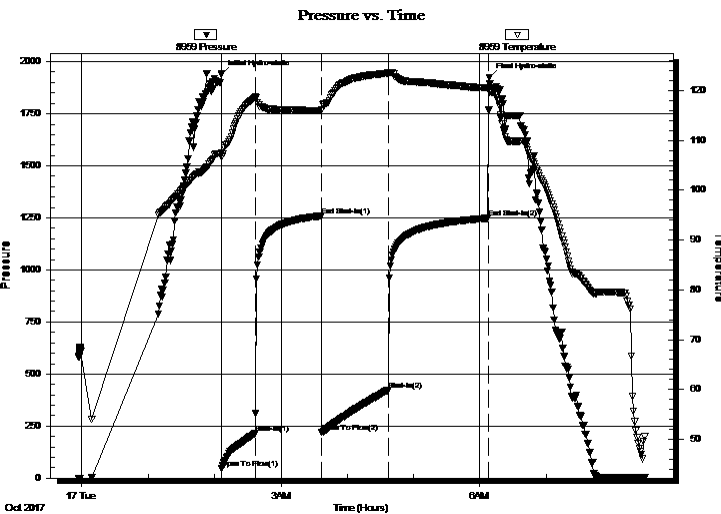
End Time:

08:29:10

Time On Btm: 2017.10.17 @ 02:06:20

Time Off Btm: 2017.10.17 @ 06:08:30

**TEST COMMENT:** 30-IF-BOB (12 inches) @ 10 mins 45 secs  
60-ISI-No blow  
60-FF-BOB (12 inches) @ 13 1/2 mins  
90-FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.03	107.57	Initial Hydro-static
1	47.09	106.74	Open To Flow (1)
31	216.30	118.66	Shut-In(1)
91	1258.07	115.98	End Shut-In(1)
91	219.14	116.15	Open To Flow (2)
151	422.88	123.48	Shut-In(2)
241	1248.16	120.51	End Shut-In(2)
243	1922.99	119.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
670.00	MSW 2%M, 98%W	7.56
208.00	HMCW35%M, 65%W	2.92

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63157

**DST#: 1**

ATTN: Saman Sharifaie

Test Start: 2017.10.16 @ 23:57:00

## Tool Information

Drill Pipe:	Length: 3683.00 ft	Diameter: 3.80 inches	Volume: 51.66 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: 202.00 ft	Diameter: 2.25 inches	Volume: 0.99 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3885.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3862.00	
Hydraulic tool	5.00			3867.00	
Jars	5.00			3872.00	
Safety Joint	3.00			3875.00	
Packer	5.00			3880.00	28.00 Bottom Of Top Packer
Packer	5.00			3885.00	
Stubb	1.00			3886.00	
Recorder	0.00	8959	Inside	3886.00	
Recorder	0.00	8734	Outside	3886.00	
Perforations	39.00			3925.00	
Bullnose	5.00			3930.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63157

**DST#: 1**

ATTN: Saman Sharifaie

Test Start: 2017.10.16 @ 23:57:00

## 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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
670.00	MSW 2%M, 98%W	7.558
208.00	HMCW35%M, 65%W	2.918

Total Length: 878.00 ft      Total Volume: 10.476 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.092@ 47.5=160,000

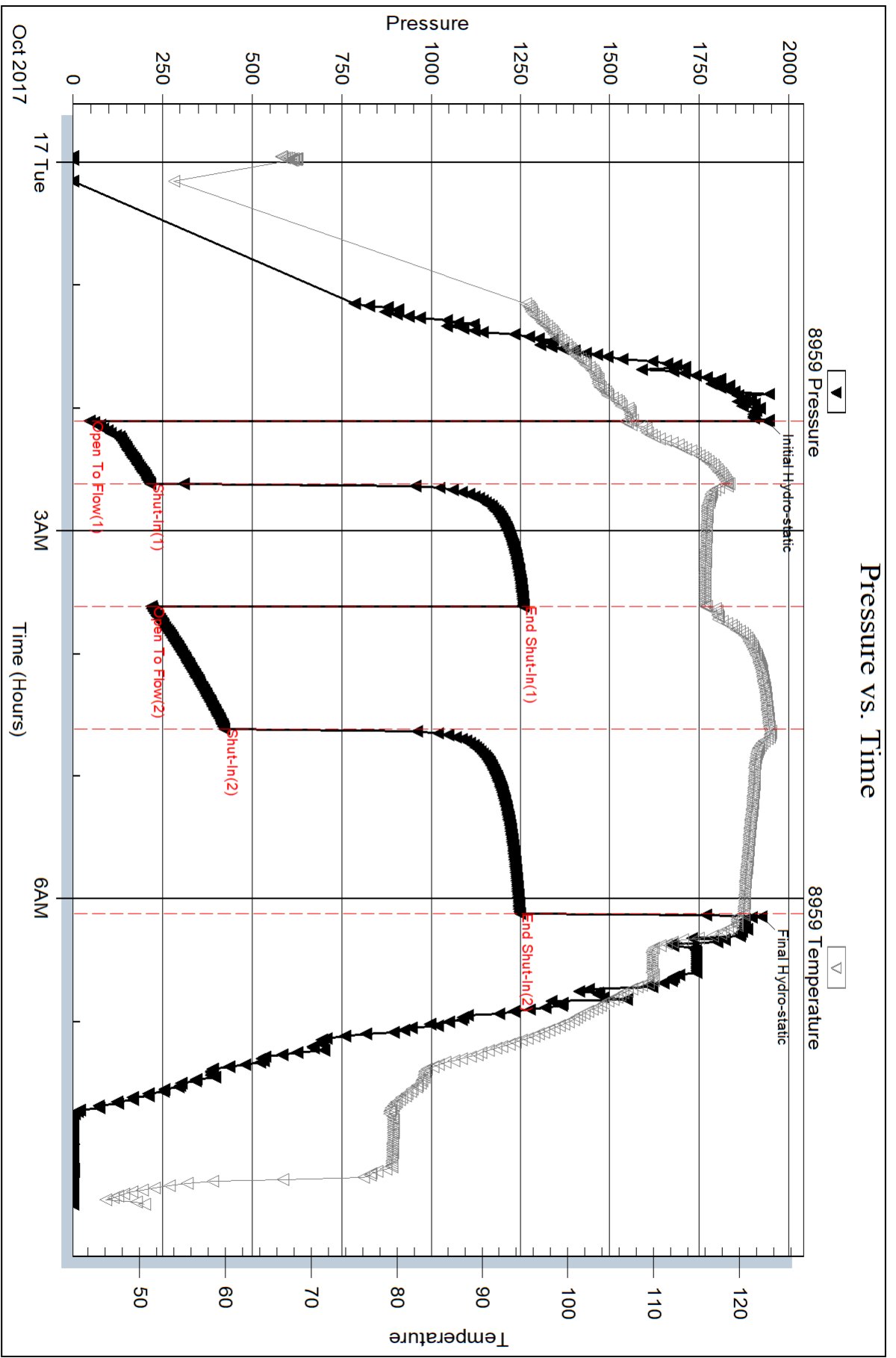
Serial #: 8959

Inside

Murfin Drilling Co INC

Schmidt-Vap"A" #2-26

DST Test Number: 1

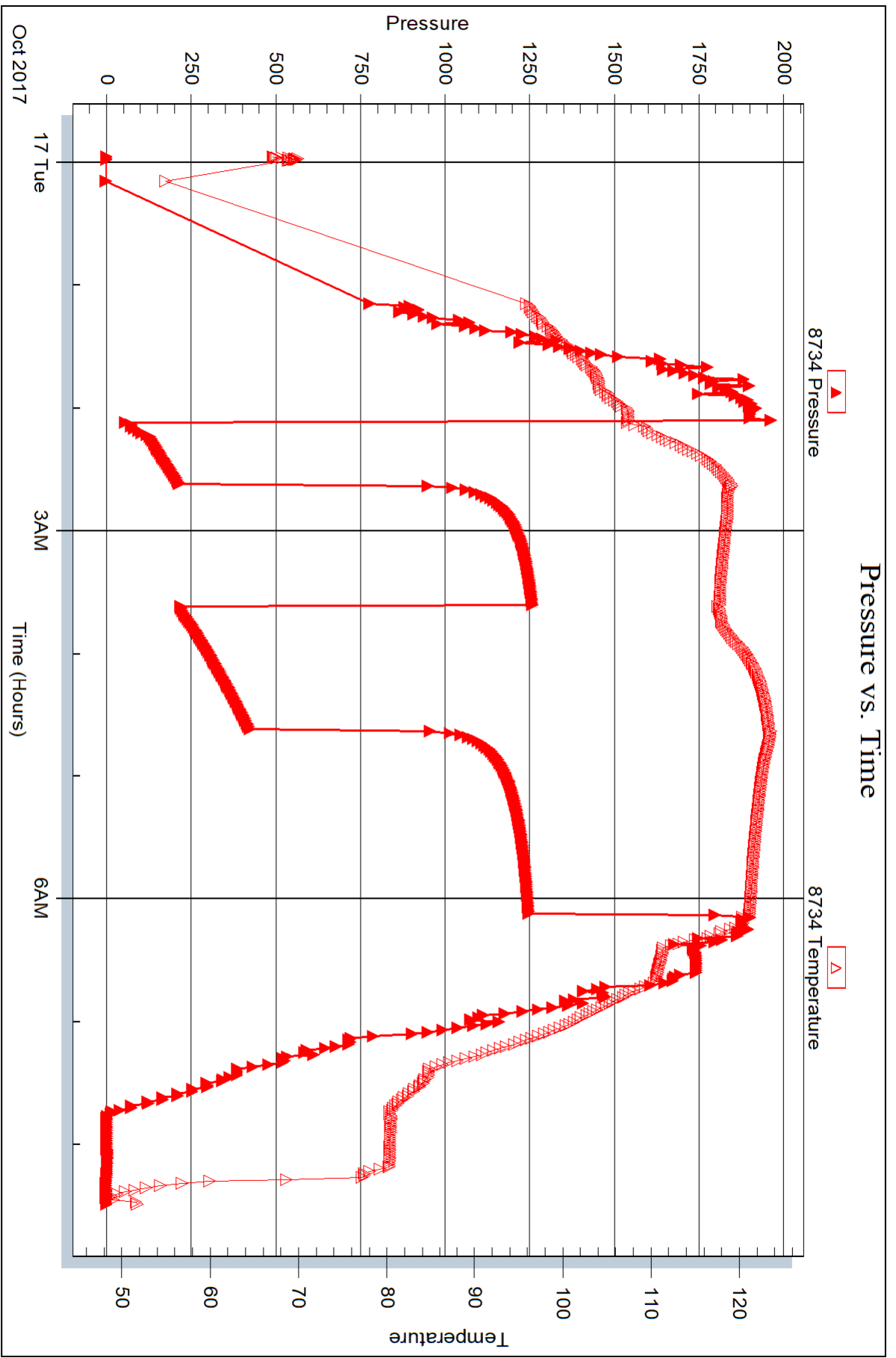


Serial #: 8734

Outside Murfin Drilling Co INC

Schmidt-Vap"A" #2-26

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63157

Printed: 2017.10.23 @ 10:07:55





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Saman Sharifaie

**Schmidt-Vap"A" #2-26**

**26- 4S.-31W Rawlins,ks**

Start Date: 2017.10.17 @ 20:38:00

End Date: 2017.10.18 @ 05:12:49

Job Ticket #: 63158                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.23 @ 10:06:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co INC

**26- 4S. -31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63158

**DST#: 2**

ATTN: Saman Sharifaie

Test Start: 2017.10.17 @ 20:38:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:37:00

Time Test Ended: 05:12:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 3936.00 ft (KB) To 4014.00 ft (KB) (TVD)**

Reference Elevations: 2947.00 ft (KB)

Total Depth: 4014.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 619.86 psig @ 3937.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.17

End Date: 2017.10.18

Last Calib.: 2017.10.18

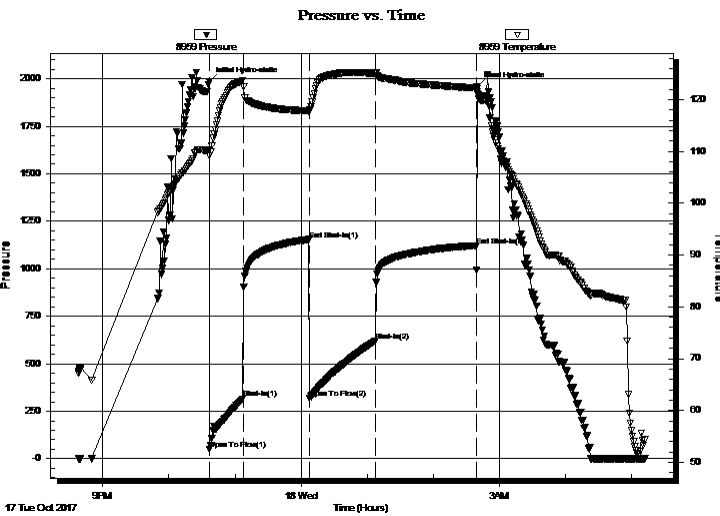
Start Time: 20:38:01

End Time: 05:12:49

Time On Btm: 2017.10.17 @ 22:36:50

Time Off Btm: 2017.10.18 @ 02:39:50

**TEST COMMENT:** 30-IF- BOB (12 inches) @ 5 1/2 mins  
60-ISI-Blow back @ 5 mins built to 1/8" dead @ 54 mins  
60-FF-BOB (12 inches) @ 7 mins 15 secs  
90-FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.82	110.36	Initial Hydro-static
1	48.42	109.11	Open To Flow (1)
31	316.70	123.66	Shut-In(1)
91	1153.38	117.81	End Shut-In(1)
91	320.31	117.70	Open To Flow (2)
151	619.86	125.12	Shut-In(2)
243	1121.59	122.26	End Shut-In(2)
244	1959.96	121.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
982.00	MSW 3%M, 97%W	11.93
314.00	OSMCW 2%O, 31%M, 67%W	4.40

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63158

**DST#: 2**

ATTN: Saman Sharifaie

Test Start: 2017.10.17 @ 20:38:00

## Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 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: 202.00 ft	Diameter: 2.25 inches	Volume: 0.99 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 53.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3936.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments: Hit tight spot 15' off bottom  
4' fill on bottom

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

shut In Tool	5.00			3921.00	
hydraulic tool	5.00			3926.00	
Packer	5.00			3931.00	20.00 Bottom Of Top Packer
Packer	5.00			3936.00	
stubb	1.00			3937.00	
Recorder	0.00	8959	Inside	3937.00	
Recorder	0.00	8734	Outside	3937.00	
Perforations	39.00			3976.00	
change Over Sub	1.00			3977.00	
blank spacing	31.00			4008.00	
change Over Sub	1.00			4009.00	
Bullnose	5.00			4014.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63158

**DST#: 2**

ATTN: Saman Sharifaie

Test Start: 2017.10.17 @ 20:38:00

### 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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
982.00	MSW 3%M, 97%W	11.935
314.00	OSMCW 2%O, 31%M, 67%W	4.405

Total Length: 1296.00 ft      Total Volume: 16.340 bbl

Num Fluid Samples: 0

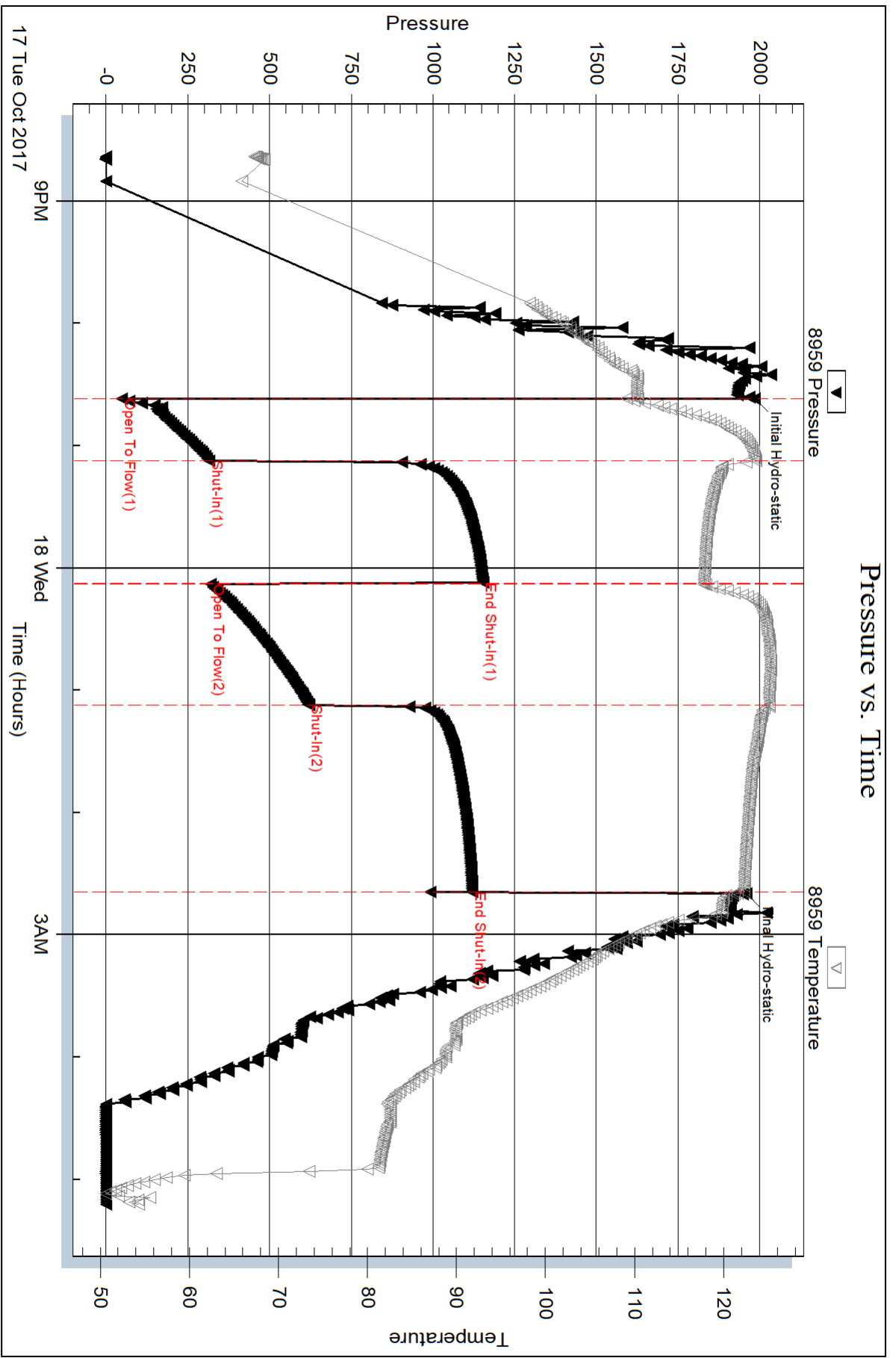
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .97 @ 44.4 degs = 10,500 ppm

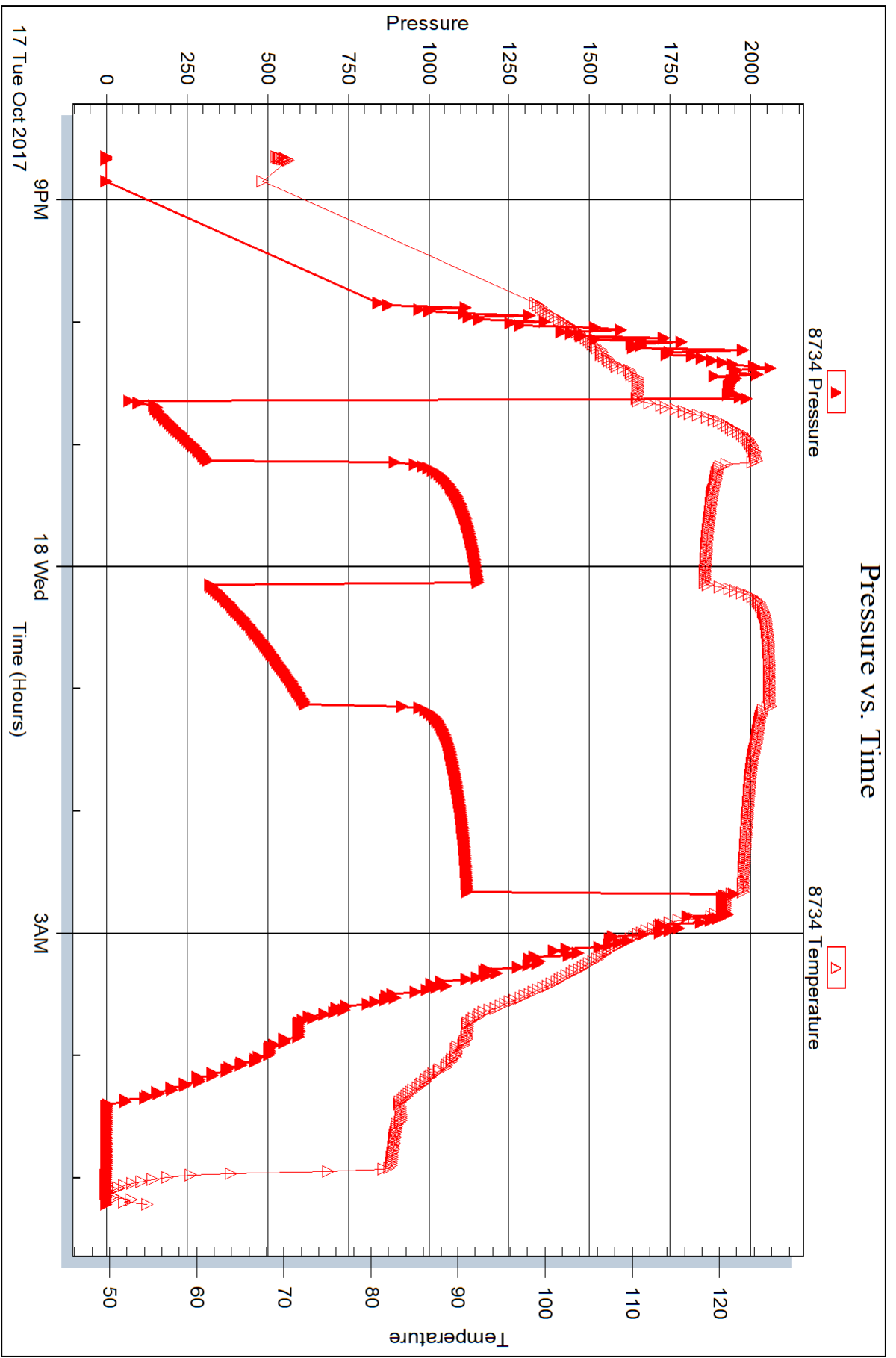


Serial #: 8734

Outside    Murfin Drilling Co INC

Schmidt-Vap"A" #2-26

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Saman Sharifaie

**Schmidt-Vap"A" #2-26**

**26- 4S.-31W Rawlins,ks**

Start Date: 2017.10.18 @ 17:57:00

End Date: 2017.10.19 @ 01:42:50

Job Ticket #: 63159                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.23 @ 10:06:11

Murfin Drilling Co INC

26- 4S.-31W Rawlins,ks

Schmidt-Vap"A" #2-26

DST # 3

LKC F-G

2017.10.18





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co INC

**26- 4S. -31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63159

**DST#: 3**

ATTN: Saman Sharifaie

Test Start: 2017.10.18 @ 17:57:00

## GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:44:20

Time Test Ended: 01:42:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4038.00 ft (KB) To 4084.00 ft (KB) (TVD)**

Reference Elevations: 2947.00 ft (KB)

Total Depth: 4084.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 32.34 psig @ 4039.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.18

End Date:

2017.10.19

Last Calib.: 2017.10.19

Start Time: 17:57:01

End Time:

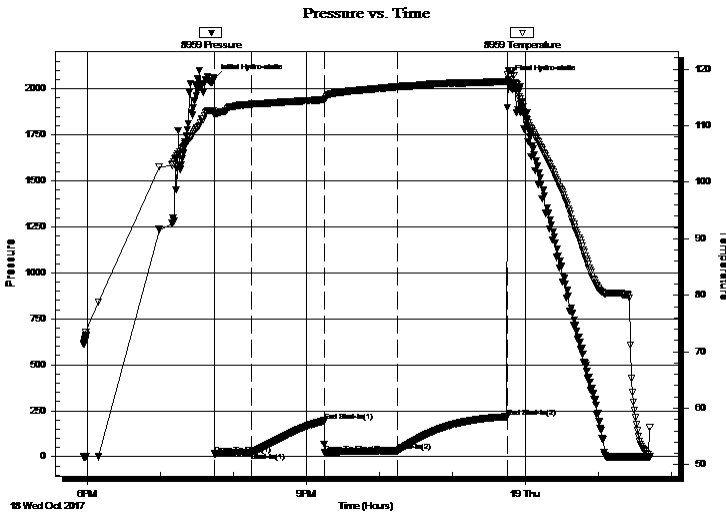
01:42:50

Time On Btm: 2017.10.18 @ 19:44:10

Time Off Btm: 2017.10.18 @ 23:46:00

**TEST COMMENT:** 30-IF-Surface blow built to 1 3/4"  
60-ISI-No blow  
60-FF BOB (12 inches) @ 37 1/2 mins  
90-FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.60	112.75	Initial Hydro-static
1	15.17	112.01	Open To Flow (1)
31	24.17	113.81	Shut-In(1)
91	194.78	114.62	End Shut-In(1)
91	21.17	114.62	Open To Flow (2)
151	32.34	116.91	Shut-In(2)
241	217.87	117.84	End Shut-In(2)
242	2048.68	119.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
52.00	GOSM 5%G, 3%O, 92%M	0.26
0.00	280' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63159

**DST#: 3**

ATTN: Saman Sharifaie

Test Start: 2017.10.18 @ 17:57:00

## Tool Information

Drill Pipe:	Length: 3839.00 ft	Diameter: 3.80 inches	Volume: 53.85 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: 202.00 ft	Diameter: 2.25 inches	Volume: 0.99 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4038.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments: Hit tight spot 10' off bottom

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

shut In Tool	5.00			4023.00	
hydraulic tool	5.00			4028.00	
Packer	5.00			4033.00	20.00 Bottom Of Top Packer
Packer	5.00			4038.00	
stubb	1.00			4039.00	
Recorder	0.00	8959	Inside	4039.00	
Recorder	0.00	8734	Outside	4039.00	
Perforations	40.00			4079.00	
Bullnose	5.00			4084.00	46.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>66.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63159

**DST#: 3**

ATTN: Saman Sharifaie

Test Start: 2017.10.18 @ 17:57:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
52.00	GOSM 5%G, 3%O, 92%M	0.256
0.00	280' GIP	0.000

Total Length: 52.00 ft      Total Volume: 0.256 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

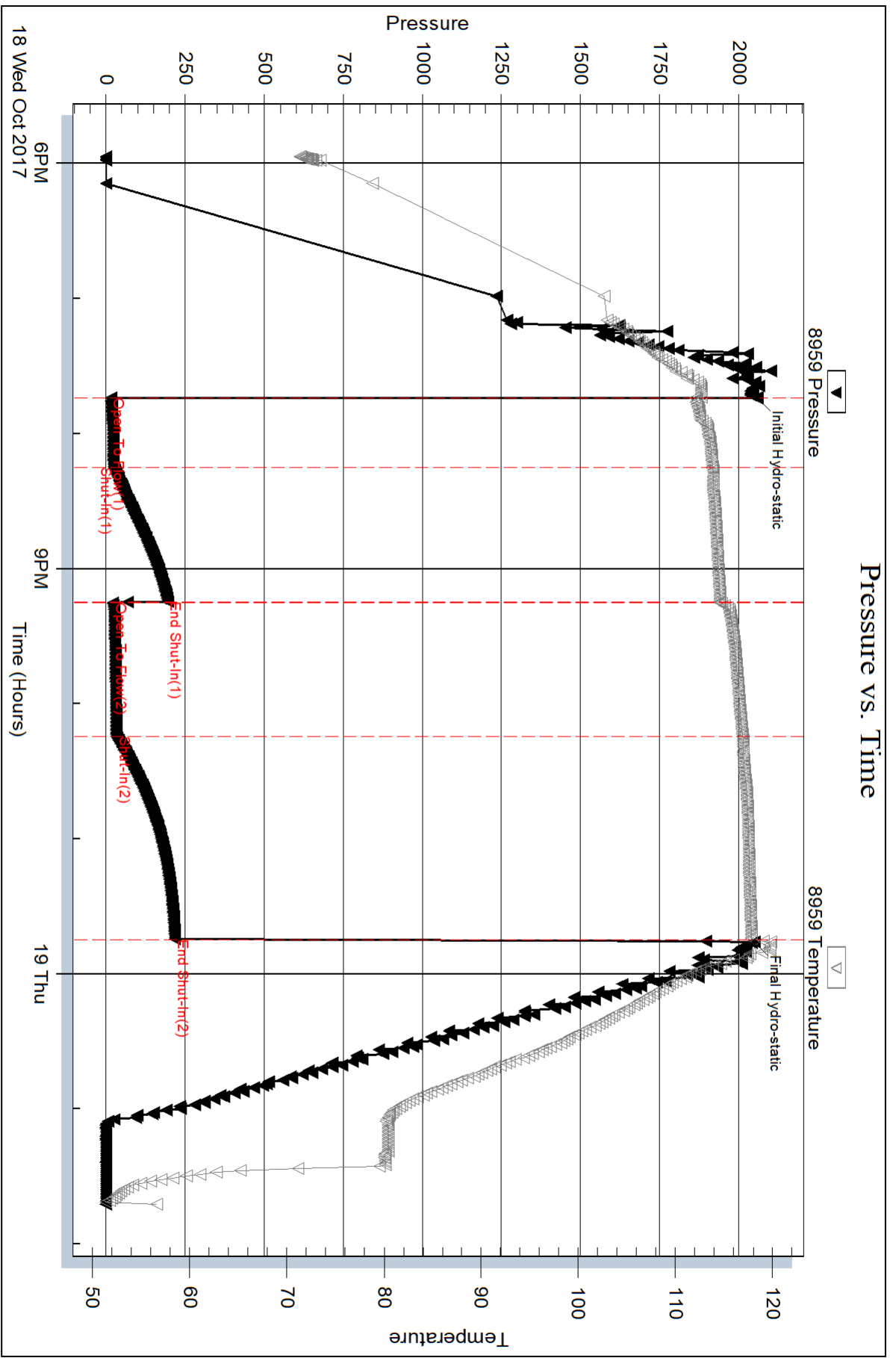
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Inside

Murfin Drilling Co INC

Schmidt-Vap"A" #2-26

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63159

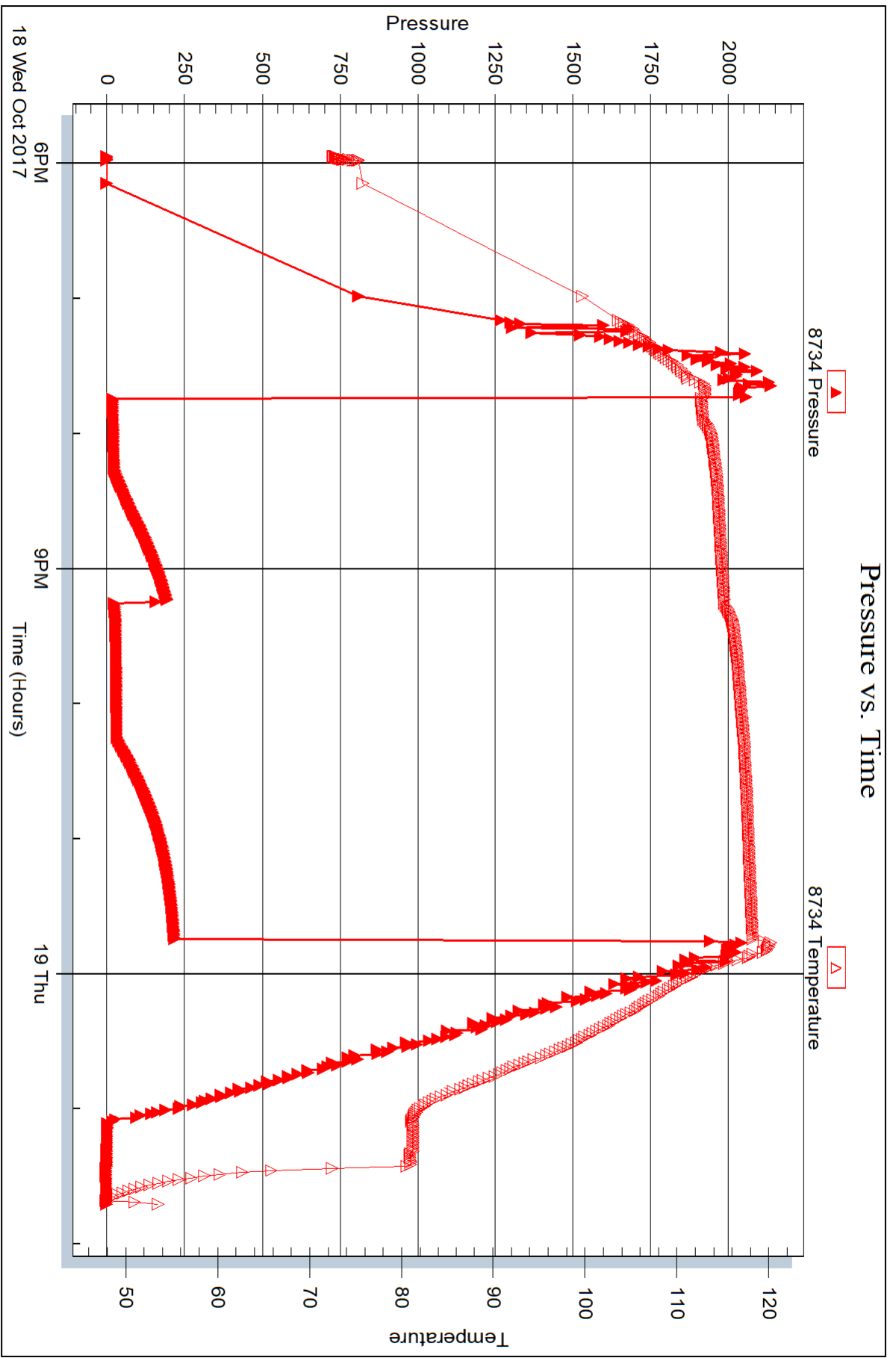
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Serial #: 8734

Outside Murfin Drilling Co INC

Schmidt-Vap"A" #2-26

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co INC**

250 N. Water STE 300  
Wichita, KS 67202

ATTN: Saman Sharifaie

**Schmidt-Vap"A" #2-26**

**26- 4S.-31W Rawlins,ks**

Start Date: 2017.10.19 @ 13:33:00

End Date: 2017.10.19 @ 20:23:30

Job Ticket #: 63160                      DST #: 4

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

Printed: 2017.10.23 @ 10:05:07



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

ATTN: Saman Sharifaie

Job Ticket: 63160

**DST#: 4**

Test Start: 2017.10.19 @ 13:33:00

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:14:10

Time Test Ended: 20:23:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

**Interval: 4086.00 ft (KB) To 4154.00 ft (KB) (TVD)**

Reference Elevations: 2947.00 ft (KB)

Total Depth: 4154.00 ft (KB) (TVD)

2942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8959**

**Inside**

Press@RunDepth: 18.26 psig @ 4087.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.19

End Date: 2017.10.19

Last Calib.: 2017.10.19

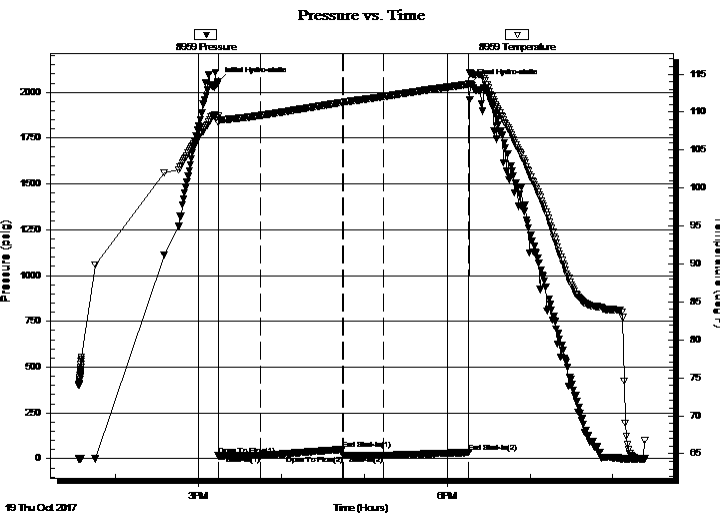
Start Time: 13:33:01

End Time: 20:23:30

Time On Btm: 2017.10.19 @ 15:14:00

Time Off Btm: 2017.10.19 @ 18:17:00

**TEST COMMENT:** 30-IF-Surface blow built to 1/4" & died back to surface blow  
60-ISI-No blow  
30-FF-No blow  
60-FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.78	109.48	Initial Hydro-static
1	16.50	108.59	Open To Flow (1)
31	16.54	109.54	Shut-In(1)
91	50.86	111.28	End Shut-In(1)
91	18.13	111.27	Open To Flow (2)
120	18.26	112.04	Shut-In(2)
182	34.30	113.67	End Shut-In(2)
183	2047.02	115.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 1%O, 99% M	0.02

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63160

**DST#: 4**

ATTN: Saman Sharifaie

Test Start: 2017.10.19 @ 13:33:00

## Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 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: 202.00 ft	Diameter: 2.25 inches	Volume: 0.99 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4086.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
shut In Tool	5.00			4071.00	
hydraulic tool	5.00			4076.00	
Packer	5.00			4081.00	20.00 Bottom Of Top Packer
Packer	5.00			4086.00	
stubb	1.00			4087.00	
Recorder	0.00	8959	Inside	4087.00	
Recorder	0.00	8734	Outside	4087.00	
Perforations	29.00			4116.00	
change Over Sub	1.00			4117.00	
blank spacing	31.00			4148.00	
change Over Sub	1.00			4149.00	
Bullnose	5.00			4154.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co INC

**26- 4S.-31W Rawlins,ks**

250 N. Water STE 300  
Wichita, KS 67202

**Schmidt-Vap"A" #2-26**

Job Ticket: 63160

**DST#: 4**

ATTN: Saman Sharifaie

Test Start: 2017.10.19 @ 13:33:00

### 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: 65.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	OSM 1%O, 99% M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

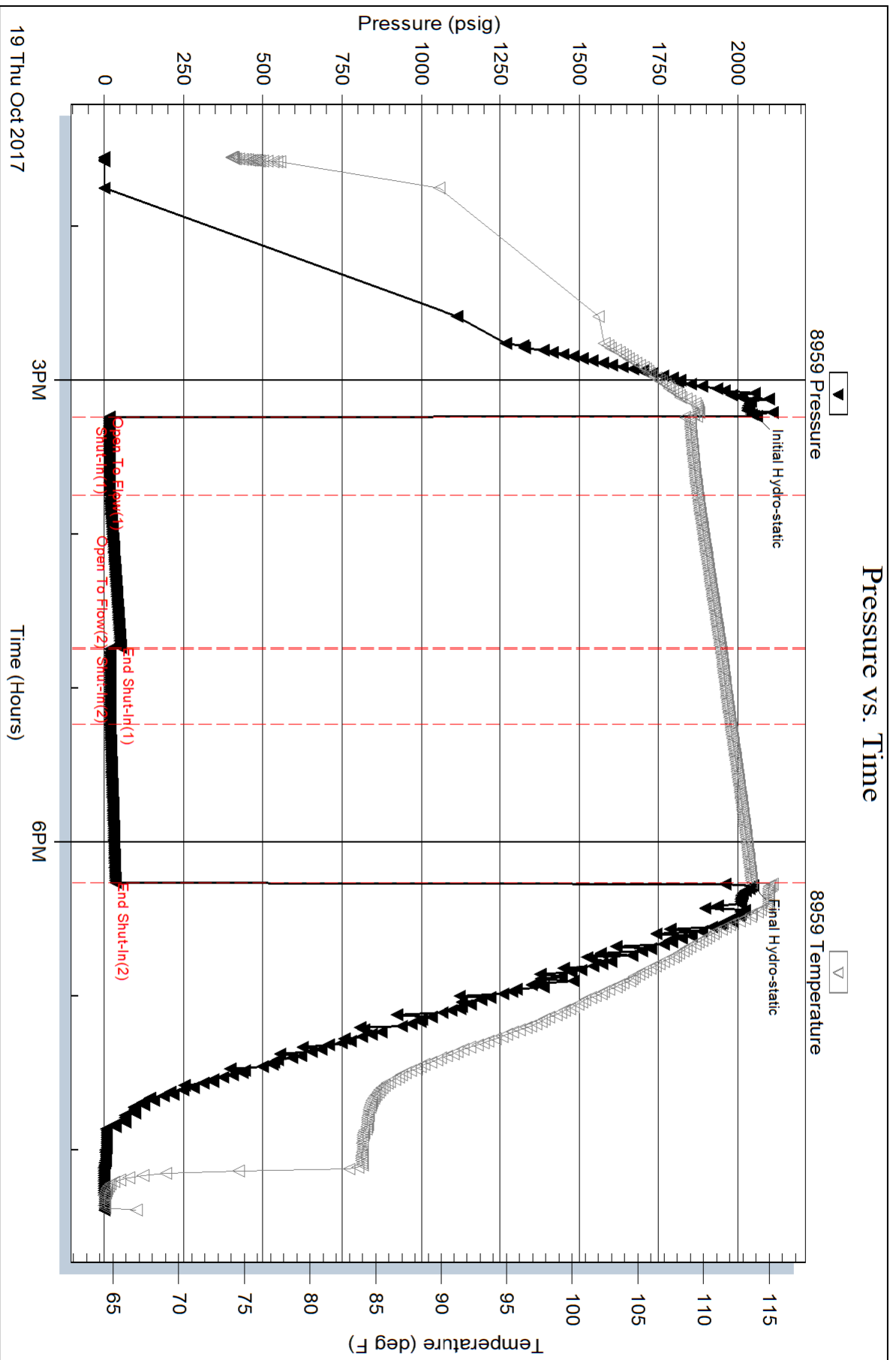
Serial #:

Laboratory Name:

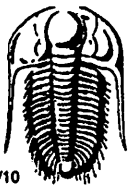
Laboratory Location:

Recovery Comments:

### Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63157

Well Name & No. Schmidt - Vap "A" #2-26 Test No. 1 Date 10-16-17  
 Company Murfin Drilling Co Inc Elevation 2947 KB 2942 GL  
 Address 250 N. Water, STE 300, Wichita, KS 67202  
 Co. Rep / Geo. Saman Shuck & Faie Rig Murfin #24  
 Location: Sec. 26 Twp. 4S Rge. 31 W. Co. Bawlin State KS

Interval Tested 3885-3930 Zone Tested Orcad  
 Anchor Length 45' Drill Pipe Run 3683 Mud Wt. 8.9  
 Top Packer Depth 3880 Drill Collars Run 202 Vis 72  
 Bottom Packer Depth 3885 Wt. Pipe Run — WL 5.6  
 Total Depth 3930 Chlorides 1000 ppm System LCM ZH

Blow Description IF - S. blow built to B.O.B (12 inches) @ 10 mins 45 secs.  
ISI - No blow  
FF - S. blow built to B.O.B (12 inches) @ 13 1/2 mins.  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>670</u>	<u>MSW</u>		<u>98</u>	<u>2</u>	
<u>208</u>	<u>HMCW</u>		<u>65</u>	<u>35</u>	

Rec Total 878 BHT 120 Gravity \_\_\_\_\_ API RW .092 @ 47.5° F Chlorides 160,000 ppm

(A) Initial Hydrostatic <u>1938</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>22:05 10-16-17</u>
(B) First Initial Flow <u>47</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:57</u>
(C) First Final Flow <u>216</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:06</u>
(D) Initial Shut-In <u>1258</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>06:06</u>
(E) Second Initial Flow <u>219</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>08:29 10-17-17</u>
(F) Second Final Flow <u>423</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT.</u> 35.25	Comments _____
(G) Final Shut-In <u>1248</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1923</u>	<input type="checkbox"/> Straddle _____	

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

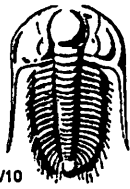
Ruined Shale Packer \_\_\_\_\_  
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 Extra Copies \_\_\_\_\_

Sub Total 0  
 Total 1410.25  
 MP/DST Disc't \_\_\_\_\_

Sub Total 1410.25

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. 63158

Well Name & No. Schmidt-Vap "A" #2-26 Test No. 2 Date 10-17-17  
 Company Murfin Drilling Co Inc Elevation 2947 KB 2942 GL  
 Address 250 N. Water, STE 300, Wichita, KS 67202  
 Co. Rep / Geo. Saman Sharifaic Rig Murfin #24  
 Location: Sec. 26 Twp. 4S. Rge. 31W Co. Bawling State KS

Interval Tested 3936-4014 Zone Tested Toronto, LKC A-B  
 Anchor Length 78' Drill Pipe Run 3745 Mud Wt. 8.8  
 Top Packer Depth 3931 Drill Collars Run 202 Vis 76  
 Bottom Packer Depth 3936 Wt. Pipe Run — WL 5.6  
 Total Depth 4014 Chlorides 1500 ppm System LCM 4#

Blow Description IF - S. blow built to B.O.B (12 inches) @ 5 1/2 mins.  
ISE - Blow back @ 5 mins built to 1/8" dead @ 54 mins.  
EF - S. blow built to B.O.B (12 inches) @ 7 mins 15 secs.  
FSI - NO blow

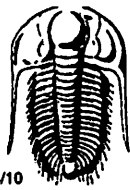
Rec	Feet of	%gas	%oil	%water	%mud
<u>982</u>	<u>MSW</u>		<u>97</u>	<u>3</u>	
<u>314</u>	<u>OSMCW</u>		<u>2</u>	<u>67</u>	<u>31</u>

Rec Total 1296 BHT 122 Gravity \_\_\_\_\_ API RW .97 @ 44.4 °F Chlorides 10500 ppm

(A) Initial Hydrostatic 1985  Test 1150 T-On Location 20:00  
 (B) First Initial Flow 48  Jars \_\_\_\_\_ T-Started 20:38  
 (C) First Final Flow 317  Safety Joint \_\_\_\_\_ T-Open 22:37  
 (D) Initial Shut-In 1153  Circ Sub \_\_\_\_\_ T-Pulled 02:37  
 (E) Second Initial Flow 320  Hourly Standby \_\_\_\_\_ T-Out 05:13  
 (F) Second Final Flow 620  Mileage 47RT 35.25 Comments Hit tight spot 15' off  
 (G) Final Shut-In 1122  Sampler \_\_\_\_\_ bottom.  
 (H) Final Hydrostatic 1960  Straddle \_\_\_\_\_ 4' Fill on Bottom  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1185.25 Sub Total \_\_\_\_\_  
 Total 1185.25 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. 63159

Well Name & No. Schmidt - Vap "A" # 2-26 Test No. 3 Date 10-18-17  
 Company Murfin Drilling Co Inc Elevation 2947 KB 2942 GL  
 Address 250 N. Water, STE 300, Wichita, KS 67202  
 Co. Rep / Geo. Saman Sharifaie Rig Murfin # 24  
 Location: Sec. 26 Twp. 4S. Rge. 31W Co. Bawling State KS

Interval Tested 4038 - 4084 Zone Tested LKC F-G  
 Anchor Length 46 Drill Pipe Run 3839 Mud Wt. 9.0  
 Top Packer Depth 4033 Drill Collars Run 202 Vis 62  
 Bottom Packer Depth 4038 Wt. Pipe Run — WL 6.4  
 Total Depth 4084 Chlorides 2300 ppm System LCM 4#  
 Blow Description IF. S. blow built to 1 3/4"  
ISI. No blow  
FF. 4" blow built to B.O.B (12 inches) @ 37 1/2 mins.  
FSI. No blow

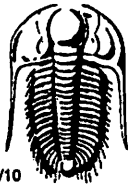
Rec	Feet of	%gas	%oil	%water	%mud
<u>52</u>	<u>GOSM</u>	<u>5</u>	<u>3</u>		<u>92</u>
<u>0</u>	<u>280' GIP</u>				

Rec Total 52 BHT 120 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2056  Test 1150 T-On Location 17:13 10-18-17  
 (B) First Initial Flow 15  Jars \_\_\_\_\_ T-Started 17:57  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 19:45  
 (D) Initial Shut-In 195  Circ Sub \_\_\_\_\_ T-Pulled 23:45  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 01:44 10-19-17  
 (F) Second Final Flow 32  Mileage 47 RT 35.25 Comments Hit tight spot 10'  
 (G) Final Shut-In 218  Sampler \_\_\_\_\_ off bottom  
 (H) Final Hydrostatic 2049  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1185.25  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1185.25

Approved By \_\_\_\_\_ Our Representative Yates Selvin  
 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. 63160

Well Name & No. Schmidt - Vap "A" #2-26 Test No. 4 Date 10-19-17  
 Company Murfin Drilling Co Inc Elevation 2947 KB 2942 GL  
 Address 250 N. Water, STE 300, Wichita, KS 67202  
 Co. Rep / Geo. Saman Sherif Rig Murfin #24  
 Location: Sec. 26 Twp. 4S. Rge. 31W. Co. Rawlins State KS

Interval Tested 4086 - 4154 Zone Tested LKC H-5  
 Anchor Length 68' Drill Pipe Run 3870 Mud Wt. 9.0  
 Top Packer Depth 4081 Drill Collars Run 202 Vis 65  
 Bottom Packer Depth 4086 Wt. Pipe Run — WL 6.4  
 Total Depth 4154 Chlorides 2000 ppm System LCM 4#

Blow Description IF - S. blow built to 1/4" & died back to S. blow  
ISI - No blow  
FF - No blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>SDSM</u>	<u>1</u>		<u>99</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 5 BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2059  Test 1150 T-On Location 13:18  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 13:33  
 (C) First Final Flow 17  Safety Joint \_\_\_\_\_ T-Open 15:14  
 (D) Initial Shut-In 51  Circ Sub \_\_\_\_\_ T-Pulled 18:14  
 (E) Second Initial Flow 18  Hourly Standby \_\_\_\_\_ T-Out 20:24  
 (F) Second Final Flow 18  Mileage 47 RT 35.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 34  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2047  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1185.25  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1185.25

Approved By \_\_\_\_\_ Our Representative Matt Spina

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