

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	AMES 1-26
Doc ID	1406073

Tops

Name	Top	Datum
Anhydrite	2524	+ 830
B/Anhydrite	2540	+ 814
Heebner	3982	- 628
Lansing	4029	- 675
Stark	4307	- 953
Marmaton	4466	- 1112
Pawnee	4555	- 1201
Ft. Scott	4577	- 1223
Cherokee	4590	- 1236
Morrow	4779	- 1425
Mississippi	4852	- 1498



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Ames #1-26

26-17s-37w Wichita,KS

Start Date: 2018.01.13 @ 14:36:35

End Date: 2018.01.13 @ 21:23:29

Job Ticket #: 64109 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.22 @ 10:33:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64109

DST#: 1

ATTN: Kevin Kessler

Test Start: 2018.01.13 @ 14:36:35

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: 3354.00 ft (KB)

Time Tool Opened: 16:40:50

Time Test Ended: 21:23:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4240.00 ft (KB) To 4305.00 ft (KB) (TVD)

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4305.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8289

Inside

Press@RunDepth: 453.61 psig @ 4242.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.13

End Date:

2018.01.13

Last Calib.:

2018.01.13

Start Time:

14:36:37

End Time:

21:23:30

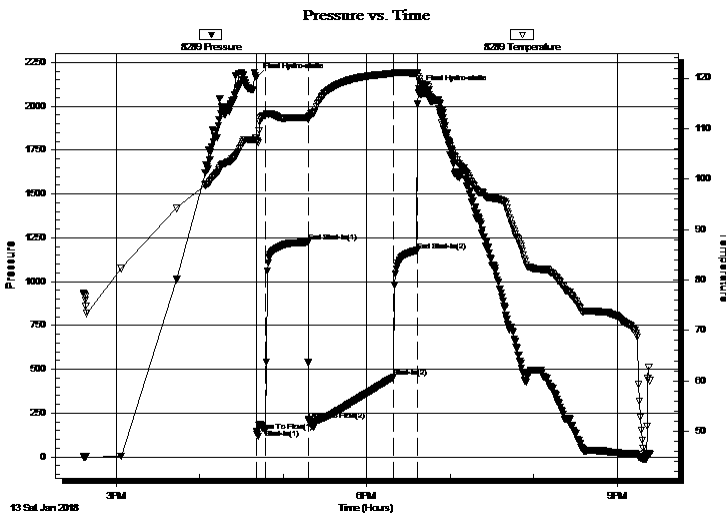
Time On Btm:

Time Off Btm:

2018.01.13 @ 16:40:30

TEST COMMENT: IF: 8" in 5 min., strong building blow
IS: No blow back
FF: BOB 8 min., strong steady blow
FS: No blow back

PRESSURE SUMMARY



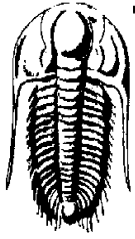
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.40	108.23	Final Hydro-static
1	146.15	107.49	Open To Flow (1)
7	154.55	112.68	Shut-In(1)
38	1224.81	112.20	End Shut-In(1)
38	210.70	111.90	Open To Flow (2)
99	453.61	120.91	Shut-In(2)
116	1177.77	120.84	End Shut-In(2)
117	2098.32	119.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	SOCMW 5%O,40%M,55%W	2.37
744.00	MW w / skim O, 5%M, 95%W	10.44

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

26-17s-37w Wichita, KS

Ames #1-26

Job Ticket: 64109

DST#: 1

Test Start: 2018.01.13 @ 14:36:35

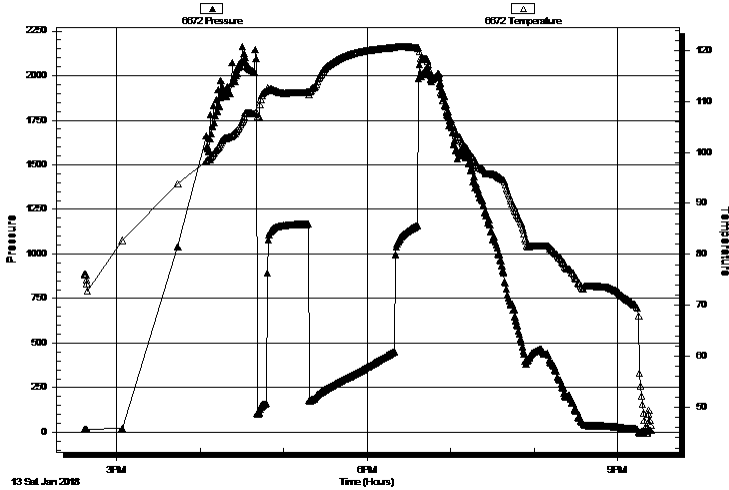
GENERAL INFORMATION:

Formation:	LKC I-J		
Deviated:	No Whipstock:	3354.00 ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	16:40:50		Tester: Chris Hagman
Time Test Ended:	21:23:29		Unit No: 75
Interval:	4240.00 ft (KB) To 4305.00 ft (KB) (TVD)		Reference Elevations: 3354.00 ft (KB)
Total Depth:	4305.00 ft (KB) (TVD)		3349.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

Serial #: 6672	Outside		
Press@RunDepth:	psig @ 4242.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2018.01.13	End Date:	2018.01.13
Start Time:	14:36:56	End Time:	21:23:58
		Last Calib.:	1899.12.30
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: 8" in 5 min., strong building blow
 IS: No blow back
 FF: BOB 8 min., strong steady blow
 FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	SOCMW 5%O,40%M,55%W	2.37
744.00	MW w / skim O, 5%M, 95%W	10.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64109

DST#: 1

ATTN: Kevin Kessler

Test Start: 2018.01.13 @ 14:36:35

Tool Information

Drill Pipe:	Length: 4111.00 ft	Diameter: 3.80 inches	Volume: 57.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4240.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool bounced back going into final shut in, decided to shorten FSI time to 20 min.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4213.00	
Shut In Tool	5.00			4218.00	
Hydraulic tool	5.00			4223.00	
Jars	5.00			4228.00	
Safety Joint	3.00			4231.00	
Packer	5.00			4236.00	28.00 Bottom Of Top Packer
Packer	4.00			4240.00	
Stubb	1.00			4241.00	
Perforations	1.00			4242.00	
Recorder	0.00	8289	Inside	4242.00	
Recorder	0.00	6672	Outside	4242.00	
Perforations	27.00			4269.00	
Change Over Sub	1.00			4270.00	
Drill Pipe	31.00			4301.00	
Change Over Sub	1.00			4302.00	
Bullnose	3.00			4305.00	65.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64109

DST#: 1

ATTN: Kevin Kessler

Test Start: 2018.01.13 @ 14:36:35

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:

29000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	SOCMW 5%O,40%M,55%W	2.367
744.00	MW w / skim O, 5%M, 95%W	10.436

Total Length: 992.00 ft Total Volume: 12.803 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

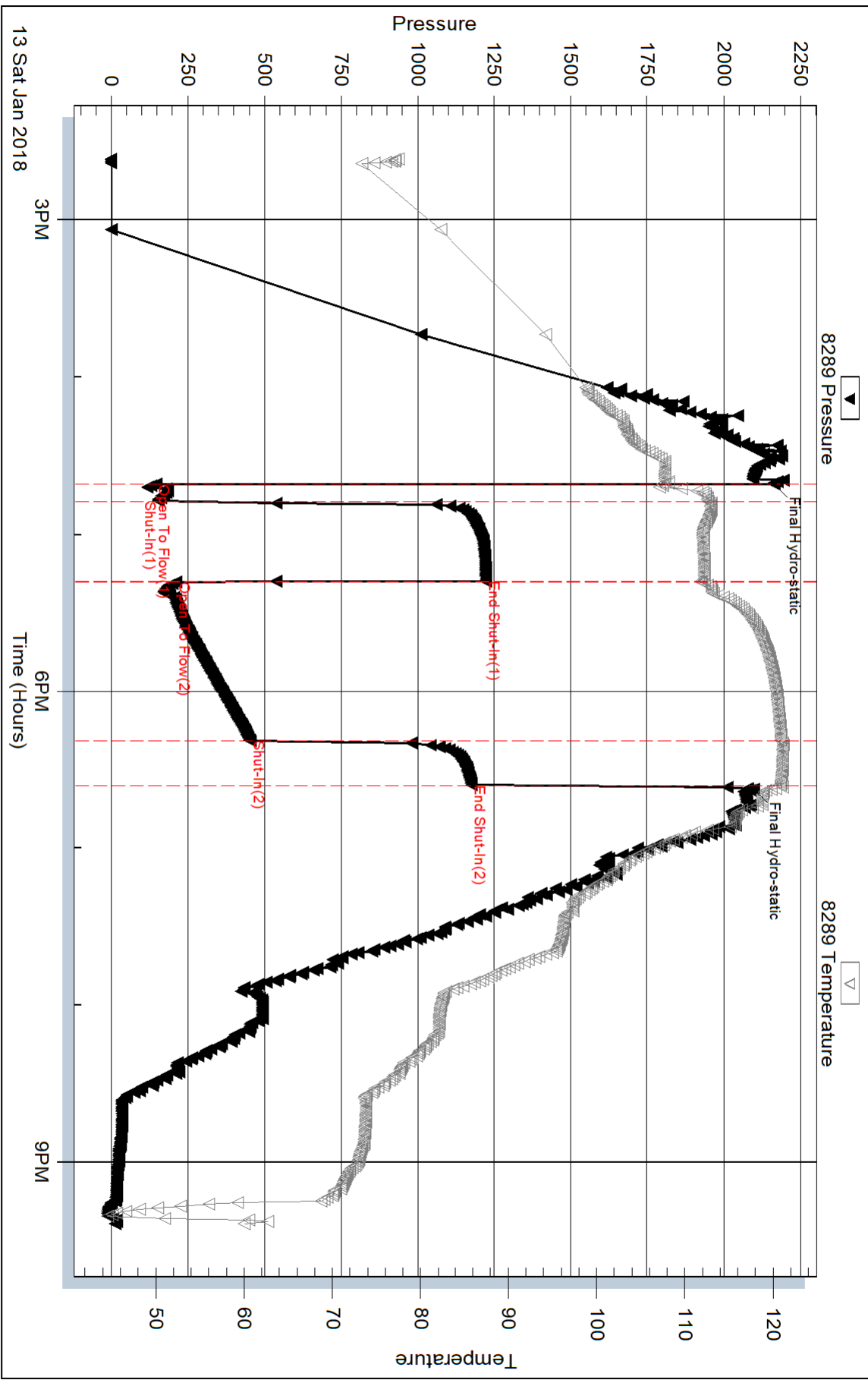
Serial #:

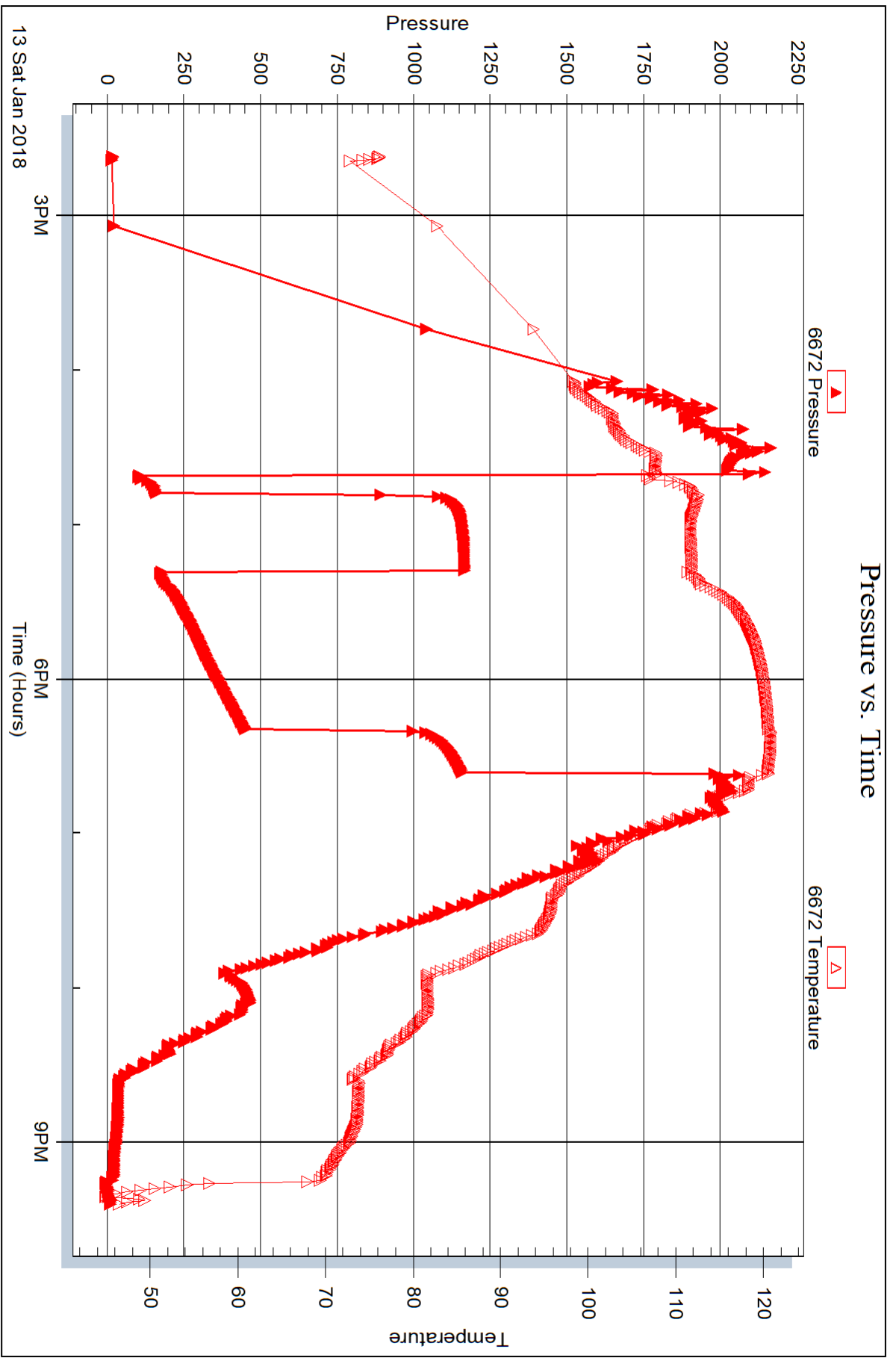
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.355@51F=29,000ppm

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Ames #1-26

26-17s-37w Wichita,KS

Start Date: 2018.01.14 @ 17:57:00

End Date: 2018.01.15 @ 01:53:09

Job Ticket #: 64110 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.22 @ 10:33:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64110

DST#: 2

ATTN: Kevin Kessler

Test Start: 2018.01.14 @ 17:57:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: 3354.00 ft (KB)

Time Tool Opened: 20:00:55

Time Test Ended: 01:53:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4390.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8289

Inside

Press@RunDepth: 87.47 psig @ 4392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.14

End Date:

2018.01.15

Last Calib.: 2018.01.14

Start Time: 17:57:02

End Time:

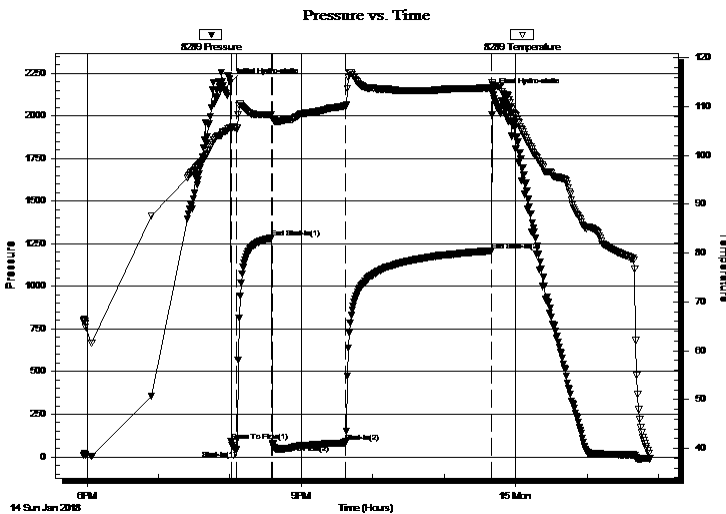
01:53:10

Time On Btm: 2018.01.14 @ 20:00:25

Time Off Btm: 2018.01.14 @ 23:40:24

TEST COMMENT: IF: .5" in 5 min., weak surface blow
IS: No blow back
FF: 3" in 60 min., weak building blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.22	105.78	Initial Hydro-static
1	90.86	105.35	Open To Flow (1)
5	40.21	105.60	Shut-In(1)
35	1282.79	108.43	End Shut-In(1)
36	76.43	107.58	Open To Flow (2)
97	87.47	110.21	Shut-In(2)
219	1208.90	113.90	End Shut-In(2)
220	2135.91	114.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW 5%M, 95%W	0.99

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64110

DST#: 2

ATTN: Kevin Kessler

Test Start: 2018.01.14 @ 17:57:00

Tool Information

Drill Pipe:	Length: 4260.00 ft	Diameter: 3.80 inches	Volume: 59.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4390.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00			4373.00	
Jars	5.00			4378.00	
Safety Joint	3.00			4381.00	
Packer	5.00			4386.00	28.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Perforations	1.00			4392.00	
Recorder	0.00	8289	Inside	4392.00	
Recorder	0.00	6672	Outside	4392.00	
Perforations	21.00			4413.00	
Change Over Sub	1.00			4414.00	
Drill Pipe	62.00			4476.00	
Change Over Sub	1.00			4477.00	
Bullnose	3.00			4480.00	90.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64110

DST#: 2

ATTN: Kevin Kessler

Test Start: 2018.01.14 @ 17:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MW 5%M, 95%W	0.993

Total Length: 150.00 ft Total Volume: 0.993 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

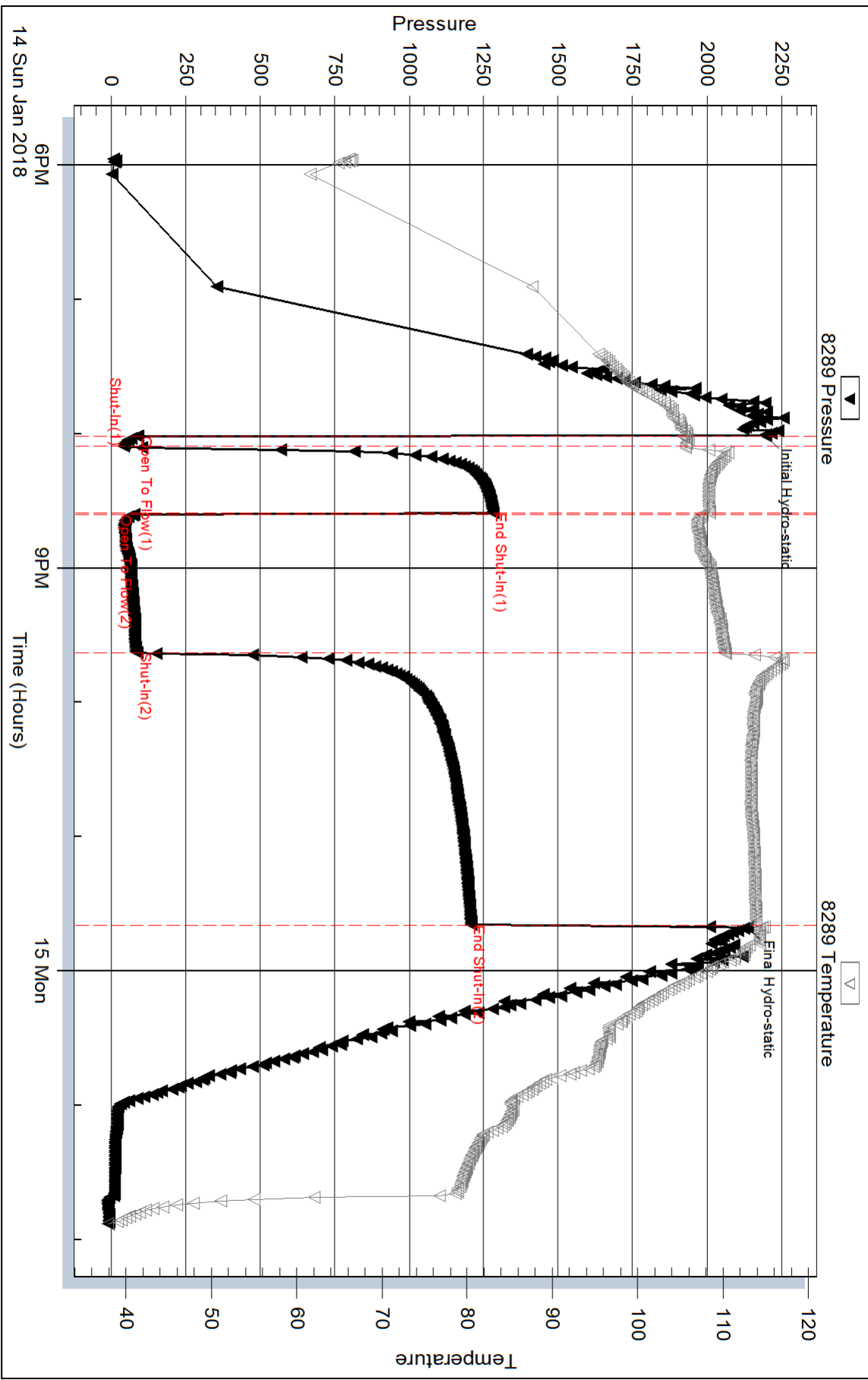
Serial #:

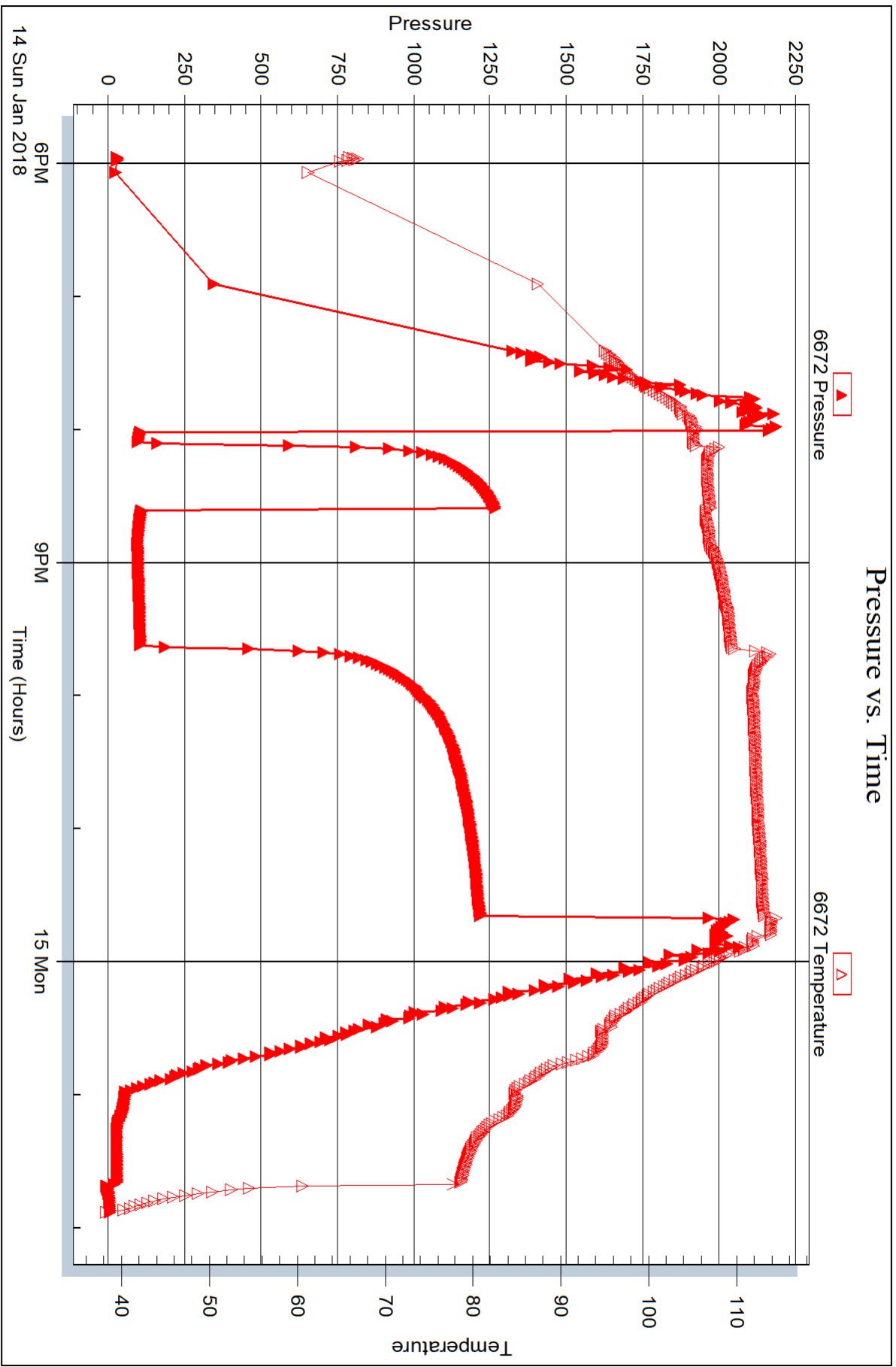
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.345@62F=24000ppm

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Ames #1-26

26-17s-37w Wichita,KS

Start Date: 2018.01.15 @ 09:37:00

End Date: 2018.01.15 @ 15:11:24

Job Ticket #: 6411 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.22 @ 10:32:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 6411

DST#: 3

ATTN: Kevin Kessler

Test Start: 2018.01.15 @ 09:37:00

GENERAL INFORMATION:

Formation: **Altamont B**

Deviated: No Whipstock: 3354.00 ft (KB)

Time Tool Opened: 11:44:10

Time Test Ended: 15:11:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4480.00 ft (KB) To 4500.00 ft (KB) (TVD)

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8289

Inside

Press@RunDepth: 27.62 psig @ 4481.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.15

End Date:

2018.01.15

Last Calib.: 2018.01.15

Start Time: 09:37:02

End Time:

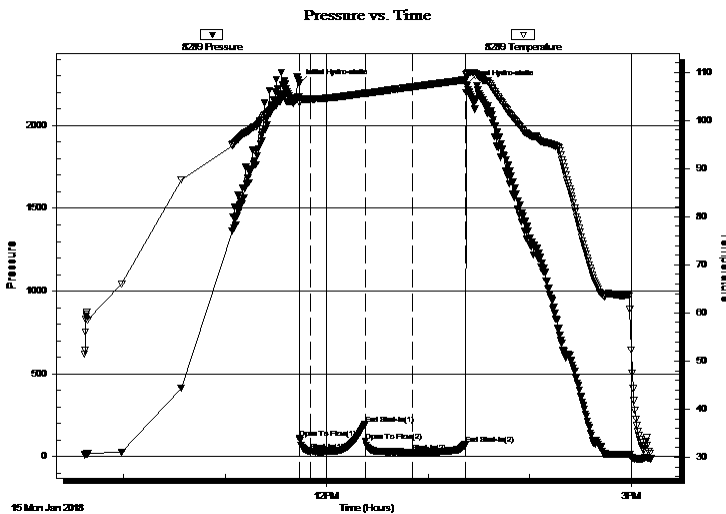
15:11:25

Time On Btm: 2018.01.15 @ 11:43:55

Time Off Btm: 2018.01.15 @ 13:22:40

TEST COMMENT: IF: Weak surface blow
IS: No blow back
FF: Weak surface blow, died 20 min.
FS: No blow back

PRESSURE SUMMARY



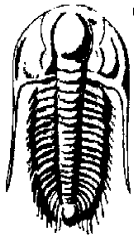
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.38	104.94	Initial Hydro-static
1	110.08	103.66	Open To Flow (1)
7	31.26	104.40	Shut-In(1)
39	196.42	105.63	End Shut-In(1)
39	91.05	105.59	Open To Flow (2)
67	27.62	106.97	Shut-In(2)
98	73.62	108.41	End Shut-In(2)
99	2247.99	109.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 6411

DST#: 3

ATTN: Kevin Kessler

Test Start: 2018.01.15 @ 09:37:00

GENERAL INFORMATION:

Formation: **Altamont B**

Deviated: No Whipstock: 3354.00 ft (KB)

Time Tool Opened: 11:44:10

Time Test Ended: 15:11:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: **4480.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6672

Outside

Press@RunDepth: psig @ 4481.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.15

End Date:

2018.01.15

Last Calib.:

1899.12.30

Start Time: 09:37:02

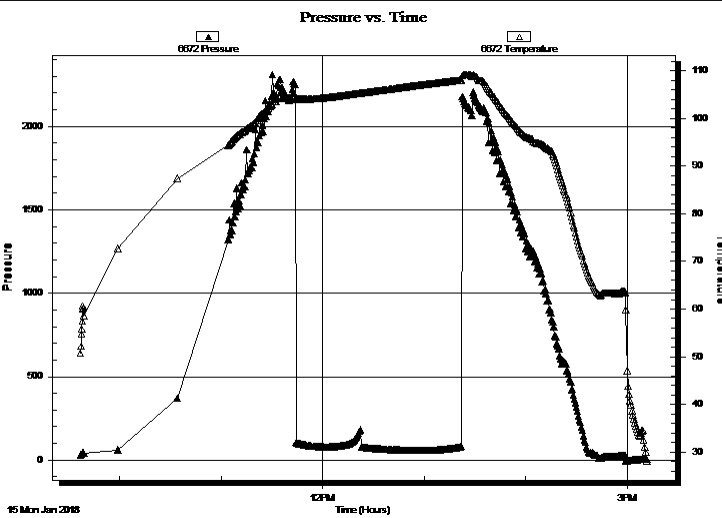
End Time:

15:11:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow
IS: No blow back
FF: Weak surface blow, died 20 min.
FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 6411

DST#: 3

ATTN: Kevin Kessler

Test Start: 2018.01.15 @ 09:37:00

Tool Information

Drill Pipe:	Length: 4360.00 ft	Diameter: 3.80 inches	Volume: 61.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4480.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			4453.00	
Shut In Tool	5.00			4458.00	
Hydraulic tool	5.00			4463.00	
Jars	5.00			4468.00	
Safety Joint	3.00			4471.00	
Packer	5.00			4476.00	28.00 Bottom Of Top Packer
Packer	4.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6672	Outside	4481.00	
Recorder	0.00	8289	Inside	4481.00	
Perforations	16.00			4497.00	
Bullnose	3.00			4500.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 6411

DST#: 3

ATTN: Kevin Kessler

Test Start: 2018.01.15 @ 09:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

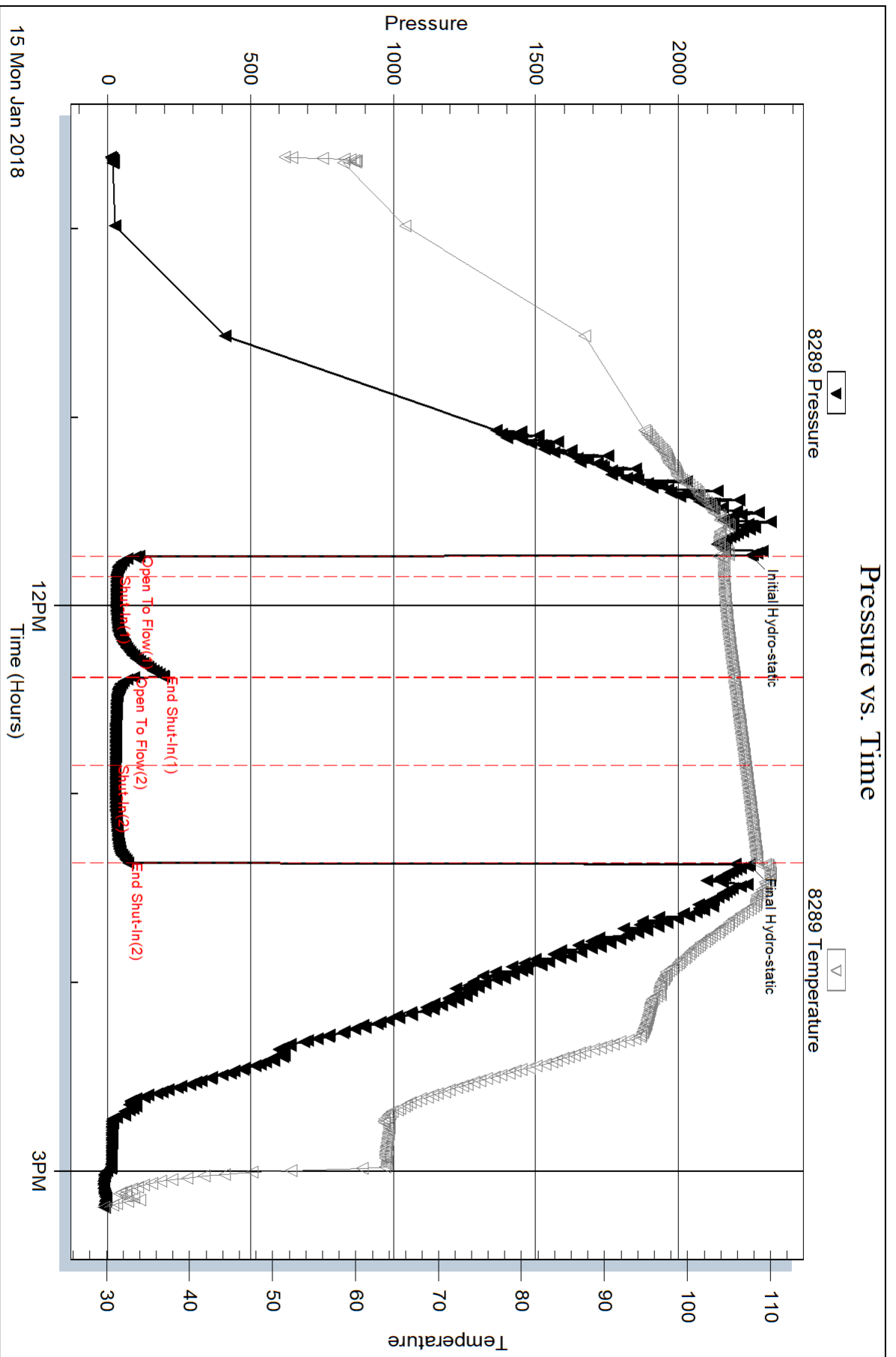
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Just a little mud in the top of the shut in tool

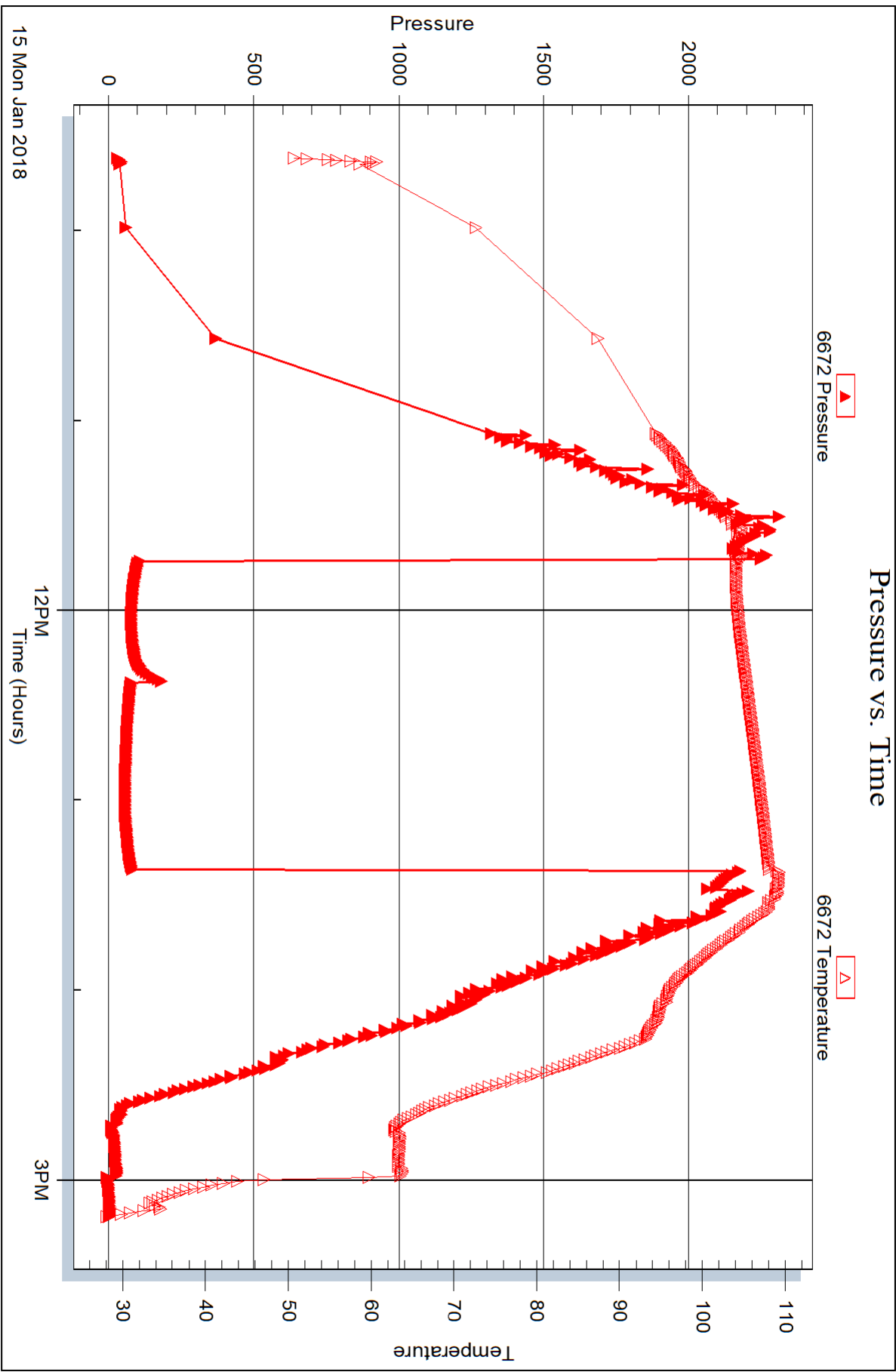


Serial #: 6672

Outside Mull Drilling Company, Inc.

Ames #1-26

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 6411

Printed: 2018.01.22 @ 10:32:29



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

Ames #1-26

26-17s-37w Wichita,KS

Start Date: 2018.01.16 @ 05:43:02

End Date: 2018.01.16 @ 13:24:55

Job Ticket #: 64112 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.01.22 @ 10:31:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64112

DST#: 4

ATTN: Kevin Kessler

Test Start: 2018.01.16 @ 05:43:02

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 3354.00 ft (KB)

Time Tool Opened: 10:00:00

Time Test Ended: 13:24:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4530.00 ft (KB) To 4585.00 ft (KB) (TVD)

Reference Elevations: 3354.00 ft (KB)

Total Depth: 4585.00 ft (KB) (TVD)

3349.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6672 Inside

Press@RunDepth: 18.66 psig @ 4532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.16

End Date:

2018.01.16

Last Calib.:

2018.01.16

Start Time:

05:43:02

End Time:

13:24:55

Time On Btm:

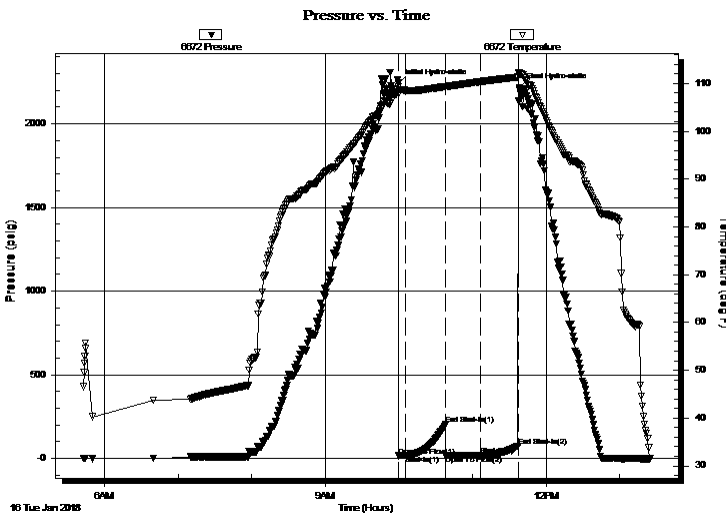
2018.01.16 @ 09:59:45

Time Off Btm:

2018.01.16 @ 11:38:25

TEST COMMENT: IF: Weak surface blow, .5" in 5 min.
IS: No blow back
FF: Weak surface blow, died 5 min.
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.60	109.37	Initial Hydro-static
1	15.60	107.86	Open To Flow (1)
6	17.97	108.55	Shut-In(1)
39	202.12	109.35	End Shut-In(1)
39	16.63	109.28	Open To Flow (2)
67	18.66	110.37	Shut-In(2)
98	75.44	111.32	End Shut-In(2)
99	2216.47	112.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100%M	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

1700 N Waterfront Pkwy
Wichita, KS 67206

ATTN: Kevin Kessler

26-17s-37w Wichita, KS

Ames #1-26

Job Ticket: 64112

DST#: 4

Test Start: 2018.01.16 @ 05:43:02

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 3354.00 ft (KB)

Time Tool Opened: 10:00:00

Time Test Ended: 13:24:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: **4530.00 ft (KB) To 4585.00 ft (KB) (TVD)**

Total Depth: 4585.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3354.00 ft (KB)

3349.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8289 Inside

Press@RunDepth: psig @ 4532.00 ft (KB)

Start Date: 2018.01.16

End Date:

2018.01.16

Capacity: 8000.00 psig

Last Calib.:

1899.12.30

Start Time: 05:43:02

End Time:

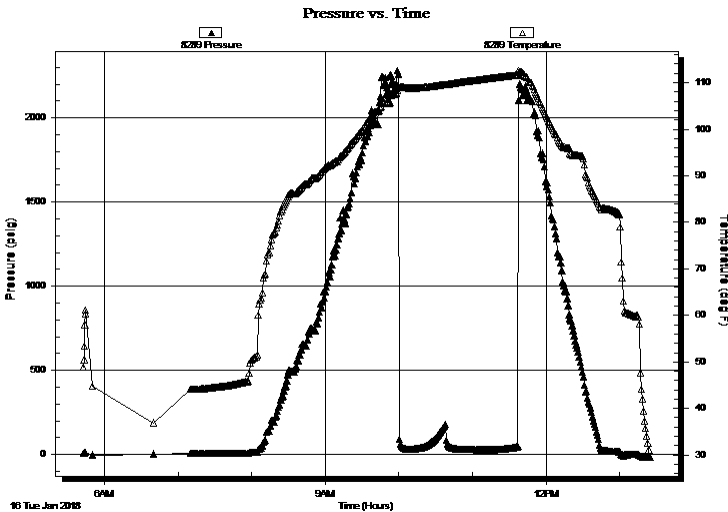
13:25:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow, .5" in 5 min.
IS: No blow back
FF: Weak surface blow, died 5 min.
FS: No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64112

DST#: 4

ATTN: Kevin Kessler

Test Start: 2018.01.16 @ 05:43:02

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.80 inches	Volume: 61.58 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4530.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4503.00	
Shut In Tool	5.00			4508.00	
Hydraulic tool	5.00			4513.00	
Jars	5.00			4518.00	
Safety Joint	3.00			4521.00	
Packer	5.00			4526.00	28.00 Bottom Of Top Packer
Packer	4.00			4530.00	
Stubb	1.00			4531.00	
Perforations	1.00			4532.00	
Recorder	0.00	8285	Outside	4532.00	
Recorder	0.00	6672	Inside	4532.00	
Perforations	17.00			4549.00	
Change Over Sub	1.00			4550.00	
Drill Pipe	31.00			4581.00	
Change Over Sub	1.00			4582.00	
Bullnose	3.00			4585.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

26-17s-37w Wichita, KS

1700 N Waterfront Pkwy
Wichita, KS 67206

Ames #1-26

Job Ticket: 64112

DST#: 4

ATTN: Kevin Kessler

Test Start: 2018.01.16 @ 05:43:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100%M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

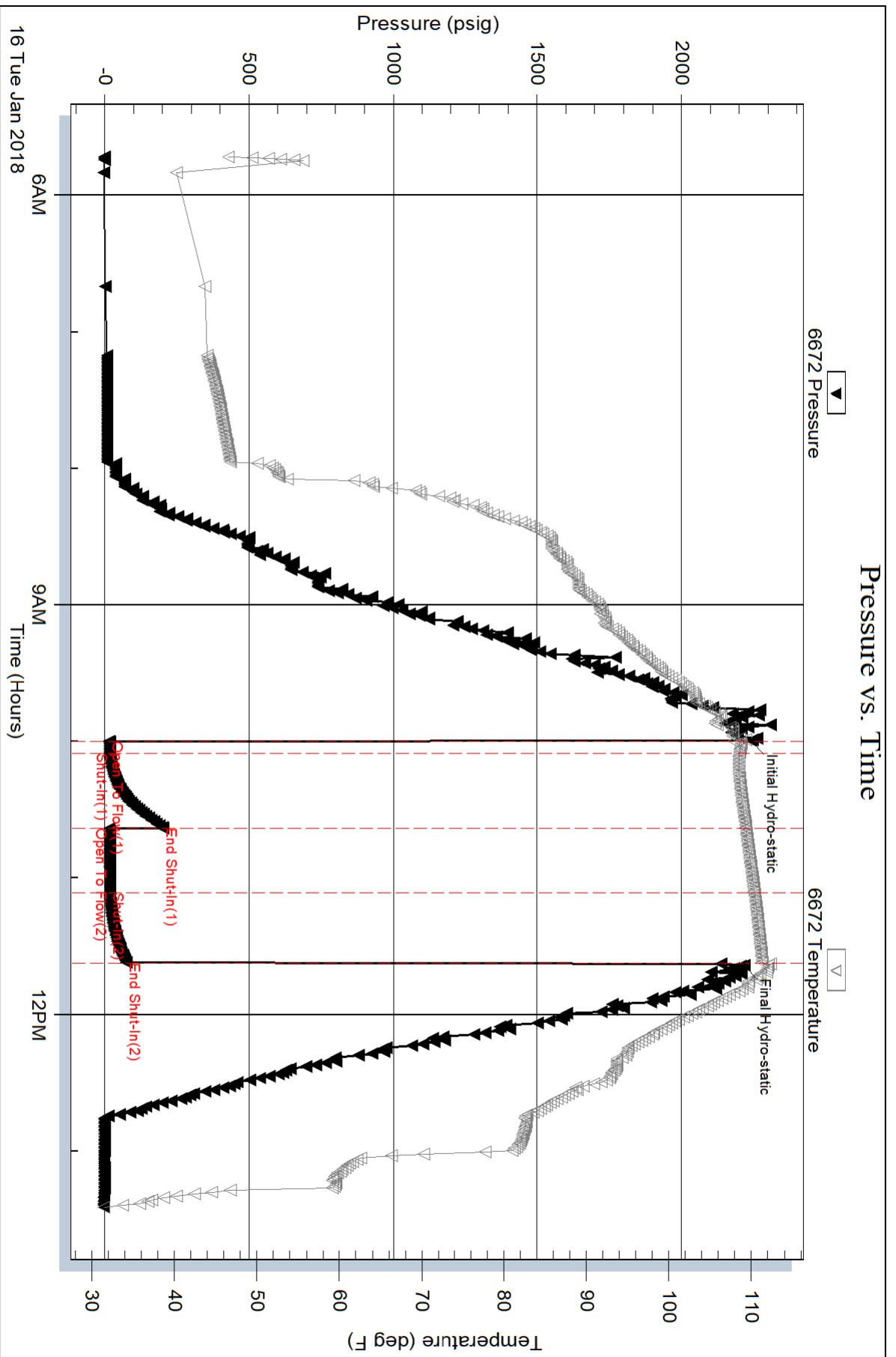
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



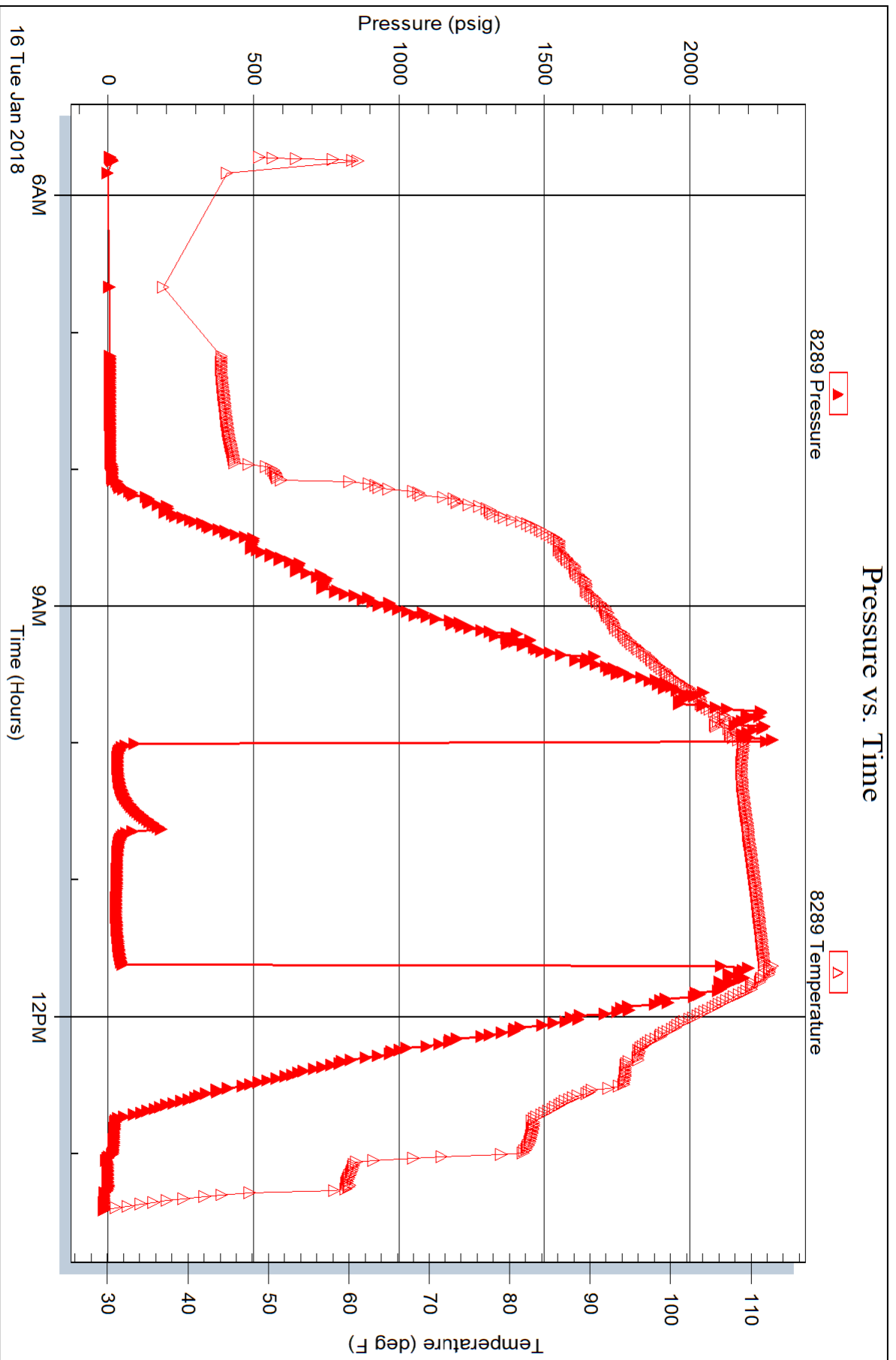
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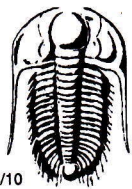
Inside

Mull Drilling Company, Inc.

Ames #1-26

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64109**

Well Name & No. Ames 1-26 Test No. 1 Date 1-13-18
 Company Mull Drilling Company, Inc. Elevation 3354 KB 3349 GL
 Address 1700 N Waterfront PKWY Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig WW 10
 Location: Sec. 26 Twp. 17 Rge. 37 Co. Wichita State KS

Interval Tested 4240-4305 Zone Tested L5g I-J
 Anchor Length 65' Drill Pipe Run 411 Mud Wt. 9.4
 Top Packer Depth 4235 Drill Collars Run 122 Vis 58
 Bottom Packer Depth 4240 Wt. Pipe Run N.A. WL 8.0
 Total Depth 4305 Chlorides 4500 ppm System LCM 2#

Blow Description IF: 8 inches in 5 min., strong building blow * tool turned very hard @
ISF: No blow back FSI and sprung back 2 turns.
FF: BOB 8 min strong steady blow Was able to shut the tool in,
FSI: No blow back but decided to cut FSI back to 20 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>oily muddy water</u>		<u>5</u>	<u>55</u>	<u>40</u>
<u>744</u>	<u>oily muddy water -</u>		<u>Skim</u>	<u>95</u>	<u>5</u>

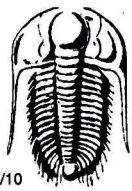
Rec Total 992 BHT 121 Gravity _____ API RW .355 @ 51 °F Chlorides 29,000 ppm

(A) Initial Hydrostatic 2162 Test conv. 1150 T-On Location 1330
 (B) First Initial Flow 146 Jars 250 T-Started 1430
 (C) First Final Flow 155 Safety Joint 75 T-Open 1640
 (D) Initial Shut-In 1225 Circ Sub _____ T-Pulled ~~1835~~ 1835
 (E) Second Initial Flow 211 Hourly Standby _____ T-Out 2115
 (F) Second Final Flow 454 Mileage x60 45 Comments Bit on @ 1436
 (G) Final Shut-In 1178 Sampler _____
 (H) Final Hydrostatic 2098 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1520

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1520
 MP/DST Disc't _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 20
 Approved By [Signature] Our Representative Chris Hegman

Trilobite Testing Inc. shall not be liable for damaged or 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. **64110**

Well Name & No. Ames 1-26 Test No. 2 Date 1-14-18
 Company Mull Drilling Company, Inc. Elevation 3354 KB 3349 GL
 Address 1700 N Waterfront PKWY Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig WW 10
 Location: Sec. 26 Twp. 17 Rge. 37 Co. Wichita State KS

Interval Tested 4390-4480 Zone Tested Altamont 'A'
 Anchor Length 90 Drill Pipe Run 4260 Mud Wt. 9.5
 Top Packer Depth 4385 Drill Collars Run 122 Vis 52
 Bottom Packer Depth 4390 Wt. Pipe Run N.A. WL 8.8
 Total Depth 4480 Chlorides 6500 ppm System LCM 1st

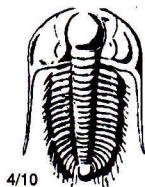
Blow Description IF: .5 inches in 5 min., weak surface blow
ISL: No blow back
EF: 3 inches in 30 min., weak building blow
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>muddy water</u>			<u>90</u>	<u>10</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 150 BHT 113 Gravity _____ API RW .345 @ 62 °F Chlorides 24,000 ppm
 (A) Initial Hydrostatic 2194 Test conv. 1150 T-On Location 1400
 (B) First Initial Flow 91 Jars 250 T-Started 1745
 (C) First Final Flow 40 Safety Joint 75 T-Open 2000
 (D) Initial Shut-In 1283 Circ Sub _____ T-Pulled 2335
 (E) Second Initial Flow 76 Hourly Standby _____ T-Out 0200
 (F) Second Final Flow 87 Mileage 60 45 Comments bat. on @ 1757
 (G) Final Shut-In 1209 Sampler _____
 (H) Final Hydrostatic 2136 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 5 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1520
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 120 Sub Total 1520

Approved By Kevin A. Kessler Our Representative Chris Hagan

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. **64111**

Well Name & No. Ames 1-26 Test No. 3 Date 1-15-18
 Company Mull Drilling Company, Inc. Elevation 3354 KB 3349 GL
 Address 1700 N Waterfront PKWY Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig WW 10
 Location: Sec. 26 Twp. 17 Rge. 37 Co. Wichita State KS

Interval Tested 4480-4500 Zone Tested Altamont 'B'
 Anchor Length 20' Drill Pipe Run 4360 Mud Wt. 9.5
 Top Packer Depth 4475 Drill Collars Run 122 Vis 52
 Bottom Packer Depth 4480 Wt. Pipe Run N.A. WL 8.8
 Total Depth 4500 Chlorides 6500 ppm System LCM 1#

Blow Description IF: Weak surface blow
ISB: No blow back
FP: Weak surface blow, died 20 min.
FSB: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
	<u>A small amount of mud in the</u>				
	<u>head of the shut in Tool</u>				

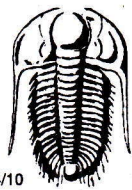
Rec Total 0 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2254 Test com. 1150 T-On Location 0900
 (B) First Initial Flow 110 Jars 250 T-Started 0930
 (C) First Final Flow 31 Safety Joint 75 T-Open 1145
 (D) Initial Shut-In 196 Circ Sub _____ T-Pulled 1320
 (E) Second Initial Flow 91 Hourly Standby _____ T-Out 1500
 (F) Second Final Flow 28 Mileage 60 45 Comments bats. on @ 0937
 (G) Final Shut-In 74 Sampler _____
 (H) Final Hydrostatic 2248 Straddle _____
 Shale Packer X 1.0 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1770
 Sub Total 1770 MP/DST Disc't _____

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

Approved By Kevin Kessler Our Representative Chris Hageman

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. **64112**

Well Name & No. Ares 1-26 Test No. 4 Date 1-15-18
 Company Mull Drilling Company, Inc. Elevation 3354 KB 3349 GL
 Address 1700 N Waterfront PKWY Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig WW 10
 Location: Sec. 26 Twp. 17 Rge. 37 Co. Wichita State KS

Interval Tested 4530-4585 Zone Tested Pawnee
 Anchor Length 55' Drill Pipe Run 4390 Mud Wt. 9.4
 Top Packer Depth 4525 Drill Collars Run 122 Vis 52
 Bottom Packer Depth 4530 Wt. Pipe Run N.A. WL 9.6
 Total Depth 4585 Chlorides 7000 ppm System LCM 1#

Blow Description IF: Weak surface blow, 5 inches in 5 min.
ISTI No blow back
FF: ~~Weak~~ Weak surface blow, died 5 min.
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>mud</u>				<u>100%</u>

Rec Total 2 BHT 111 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2254 Test CONV. 1150 T-On Location 0500
 (B) First Initial Flow 96 Jars 250 T-Started 0545
 (C) First Final Flow 34 Safety Joint 75 T-Open 1000
 (D) Initial Shut-In 185 Circ Sub _____ T-Pulled 1135
 (E) Second Initial Flow 98 Hourly Standby _____ T-Out 1330
 (F) Second Final Flow 29 Mileage 60 45 Comments But on @ 0543
 (G) Final Shut-In 51 Sampler _____
 (H) Final Hydrostatic 2209 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 5 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1520
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1520

Approved By Kevin Kessler Our Representative Chris Hagren

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.

KEVIN L. KESSLER

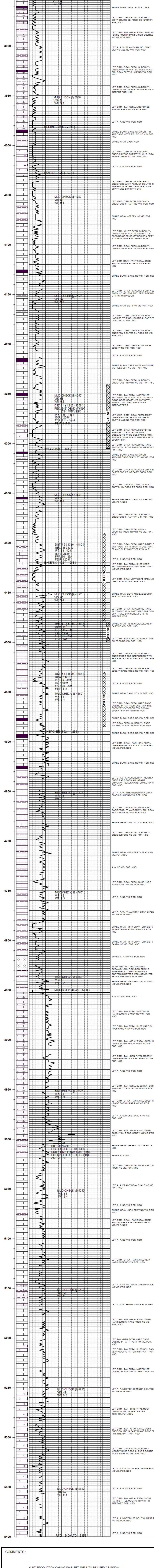
CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING CO. INC.		ELEVATION	
LEASE : AMES	WELL # : 1 - 26	KB: 3354'	
LOCATION : 1024' FNL & 1322' FWL		GL: 3349'	
SEC : 26	TWP : 16 S	RGE : 37 W	MEASUREMENTS FROM:
COUNTY : WICHITA		STATE : KANSAS	
CONTRACTOR: W W DRILLING RIG # 10		CASING RECORD:	
COMM: 01 - 08 - 2018	LTD: 01 - 22 - 2018	SURFACE:	
RTD: 5400'	COMP: 5398'	8 5/8" @ 259'	
GEOLOGICAL SUPERVISION FROM: 3700'		PRODUCTION:	
SAMPLES SAVED FROM: 3700'		5 1/2" @ 5400'	

FORMATION:	TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM	COMP.	ELECTRICAL SURVEYS:
HEEBNER	3984	- 630	3984	- 630	+ 01	DIL
LANSING	4030	- 676	4030	- 676	+ 03	CNL / CDL
STARK	4308	- 954	4308	- 954	- 02	MICRO
CHEROKEE	4592	- 1238	4592	- 1238	- 04	SONIC
MISSISSIPPI	4852	- 1498	4852	- 1498	+ 06	

REFERENCE WELL FOR STRUCTURAL COMPARISON:
MULL # 1 - 26 ALLEN 26 - 16S - 37 W WICHITA CO. KS.



COMMENTS :
5 1/2" PRODUCTION CASING WAS SET. WELL TO BE USED AS SWDW



TICKET 031186

CHARGE TO: Mull Drilling Co.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Deer City KS</u>	WELL/PROJECT NO. <u># 1-26</u>	LEASE <u>Aimes</u>	COUNTY/PARISH <u>Labette</u>	STATE <u>KS</u>	CITY <u>Leoti</u>	DATE <u>1-8-18</u>	OWNER <u>Swinc</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>W & W Drilling</u>	RIG NAME/NO. <u># 10</u>	SHIPPED VIA CT	DELIVERED TO <u>Leoti</u>	ORDER NO.		
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 8 5/8 Surface Pipe</u>	WELL PERMIT NO.	WELL LOCATION <u>Leoti - Hwy 314 by Sinal</u>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			UM	UM		
575					Job # 112					
576.5					Pump Charge - Shallow Surface.					
325					Standard Cement					
278					Calcium Chloride					
279					Benfonite Gel					
290					D-Air					
581					Service Charge Cement					
583					Drayage					

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 1-8-18 TIME SIGNED 2:45 A.M. P.M.

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL 4589

TOTAL 4798

SWIFT OPERATOR David Huchm APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 1-8-18	PAGE NO. 1
TICKET NO. 131186	

CUSTOMER Mull Drilling	WELL NO. W 1-26	LEASE Ames	JOB TYPE Surface
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2045							on location 8 5/8" 23"
								RTD-259' TP-259'
	2100							Start 8 5/8" 23" pipe in well
	2130							Break Circulation
	2140	4	5			100		Pump 5 bbl water spacer
	2145	4 1/2	40			100		Mix 165 sks STD 2% Gel 3% CC @ 14.7
	2155	4 1/2	Ø			100		Start Displacement
		4 1/2	15			200		circulate cement to surface * 5 sks *
	2200	4 1/2	16			200		Kick out Pump Shut in
								wash up truck
	2245							Job Complete

Thank You
Dave Preston Hixey



CHARGE TO: Well Drilling
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 03114

PAGE 1 OF 2

1. SERVICE LOCATIONS Neos City KS WELL/PROJECT NO. 1-26 LEASE Ames COUNTY/PARISH Wichita STATE KS CITY Neos DATE 22 Jan 18 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR RIG NAME/NO. 10 SHIPPED VIA DELIVERED TO ORDER NO.
 3. WELL TYPE Drill WELL CATEGORY Development JOB PURPOSE Concret dug string WELL PERMIT NO. WELL LOCATION 26-16-37
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS Bid Job

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOG	ACCT	DF								
575					TRX lift	90	hr				500	45
578					Diver Charge	1	ea	52	in		1250.00	125
403					Concret Bucket	5 1/2	in	1	ea		250.00	25
404					Bot Collar	5 1/2	in	1	ea		250.00	25
405					Padlock Shoe	5 1/2	in	1	ea		1300.00	130
406					Latch down plug & handle	5 1/2	in	1	ea		225.00	22
409					Turbolizer	5 1/2	in	1	ea		75.00	7.5
580					Additional hours			1	hr		200.00	20

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 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED [Signature] TIME SIGNED A.M. P.M.

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL
				700
				881
				1070710
				504
				TAX 153
				Wichita 858
				1378
				91

SWIFT OPERATOR [Signature] APPROVAL [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the material



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

TICKET CONTINUATION

TICKET No. 31145

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	CUSTOMER	DESCRIPTION	WELL	DATE	PAGE
327						MULL Drilling		Aves	1-26	2
583										
292										
276										
280										
221										

QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
275	sk			9.00	2475
1400	lb			0.20	280
150	lb			8.00	1200
50	lb			2.25	112.50
1800	gal			3.00	5400
2	gal			25.00	50

MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	CUBIC FEET
583	23,250	90	1046.25	1.62
581				41.2
583				784

CONTINUATION TOTAL 8314

JOB LOG

SWIFT Services, Inc.

DATE 22 Jan 18 PAGE NO. 1

CUSTOMER MUHL DRILLING WELL NO. i-26 LEASE Ames JOB TYPE convent logging TICKET NO. 31145

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								275sk 50/50 Pozmix (2logel) w/ 1/2" floater 5 1/2" x 15.5" casing 5031' TD - 5400' Packer shoe shoejt 42' Bskt #58 Centralizers 3, 5, 7, 11, 13, 15, 17, 57 Port collar #58 2548'
	1100							onloc TRK-114
	1200							Start 5 1/2" x 15.5" casing in well
	1400							Circulate well
	1600					1600		Drop geldenball - set packer shoe
	1605							Pump flushes floater & KOL floater Shot in 5 1/2"
	1625		7					Plug RH 30sk
	1632	5	56			200		mix 50/50 poz (2%) 245sk @ 14.4ppg
								Drop latch down plug without pump & line
	1700	6 1/4				200		Displace plug
		6 1/4	100			400		
		6 1/4	114			750		
	1730	6 1/4	118			1500		Land plug
								Release pressure to truck dived up
								wash truck
								Rack up
	1755							job complete Thanks Blaine Phil #324228



CHARGE TO: Mull Drilling Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 03119

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u>Ames R-1-26</u>	LEASE <u>Ames</u>	COUNTY/PARISH <u>Dickins</u>	STATE <u>KS</u>	CITY <u>Lechi</u>	DATE <u>1-30-18</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Codell</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Port Collar</u>	WELL LOCATION <u>Lechi - Hwy 3/4 way S</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>* Bid Job *</u>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.		UNIT PRICE	AMOI
		LOC	ACCT			U/M	U/M		
575		1		Tpk # 112	100			5.00	500
576 D		1		Pump Charge - Port Collar	1			1250.00	1250
330		1		SMB Cement	215			15.25	338.75
276		1		Floacle	1/4	1lb		2.35	112
290		1		D-Air	2	gal		42.00	84
581		1		Service Charge Cement	300	sls		1.50	450
583		1		Dryage	29875	lbs		1494.17M	1120

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

X

DATE SIGNED 1-30-18 TIME SIGNED 1:30 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?	AGREE	UNDECIED	DISAGREE
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL

TOTAL

690.00
 152.25
 15.25
 112.00
 450.00
 1120.00
 1648.00

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

SWIFT OPERATOR

David Kuehn

APPROVAL

Kay Br

Thank Y

JOB LOG

SWIFT Services, Inc.

DATE 1-30-18	PAGE NO. 1
TICKET NO. 31199	

CUSTOMER Mull Drilling Co.	WELL NO. # 1-26	LEASE Ames	JOB TYPE Post Collar
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							on location 2 7/8 x 5 1/2
								P.C. - 2547
	1210	∅	∅		✓		1000	Pressure Test *Hold*
								Open P.C.
	1305	3 1/2	5		✓		400	Injection Rate
	1310	3 1/2	120		✓		300	mix 215 sks SMD 1/4" Fl @ 11.2 ppg circulate cement to surface
		3 1/2	14		✓		500	Displace Cement
	1350	∅	∅		✓		1000	Close P.C. test *Hold*
								Run 5 sks
	1400	3 1/2	35		✓		300	Reverse Clean
								total - 215 sks SMD 1/4" Fl Pit - 20 sks
								wash up truck
	1445							Job Complete
								Thank You Dave Preston Kirby