



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.08 @ 20:20:00

End Date: 2014.07.09 @ 00:15:00

Job Ticket #: 59265 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.15 @ 07:55:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59265 **DST#: 1**
Test Start: 2014.07.08 @ 20:20:00

Tool Information

Drill Pipe:	Length: 3766.00 ft	Diameter: 3.80 inches	Volume: 52.83 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3793.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3773.00	
Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Packer	5.00			3788.00	21.00 Bottom Of Top Packer
Packer	5.00			3793.00	
Stubb	1.00			3794.00	
Recorder	0.00	8789	Inside	3794.00	
Recorder	0.00	8289	Outside	3794.00	
Blank Spacing	19.00			3813.00	
Bullnose	3.00			3816.00	23.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59265 **DST#: 1**
Test Start: 2014.07.08 @ 20:20:00

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.92 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	Mud 100%	1.980

Total Length: 160.00 ft Total Volume: 1.980 bbl

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

Laboratory Name: Laboratory Location:

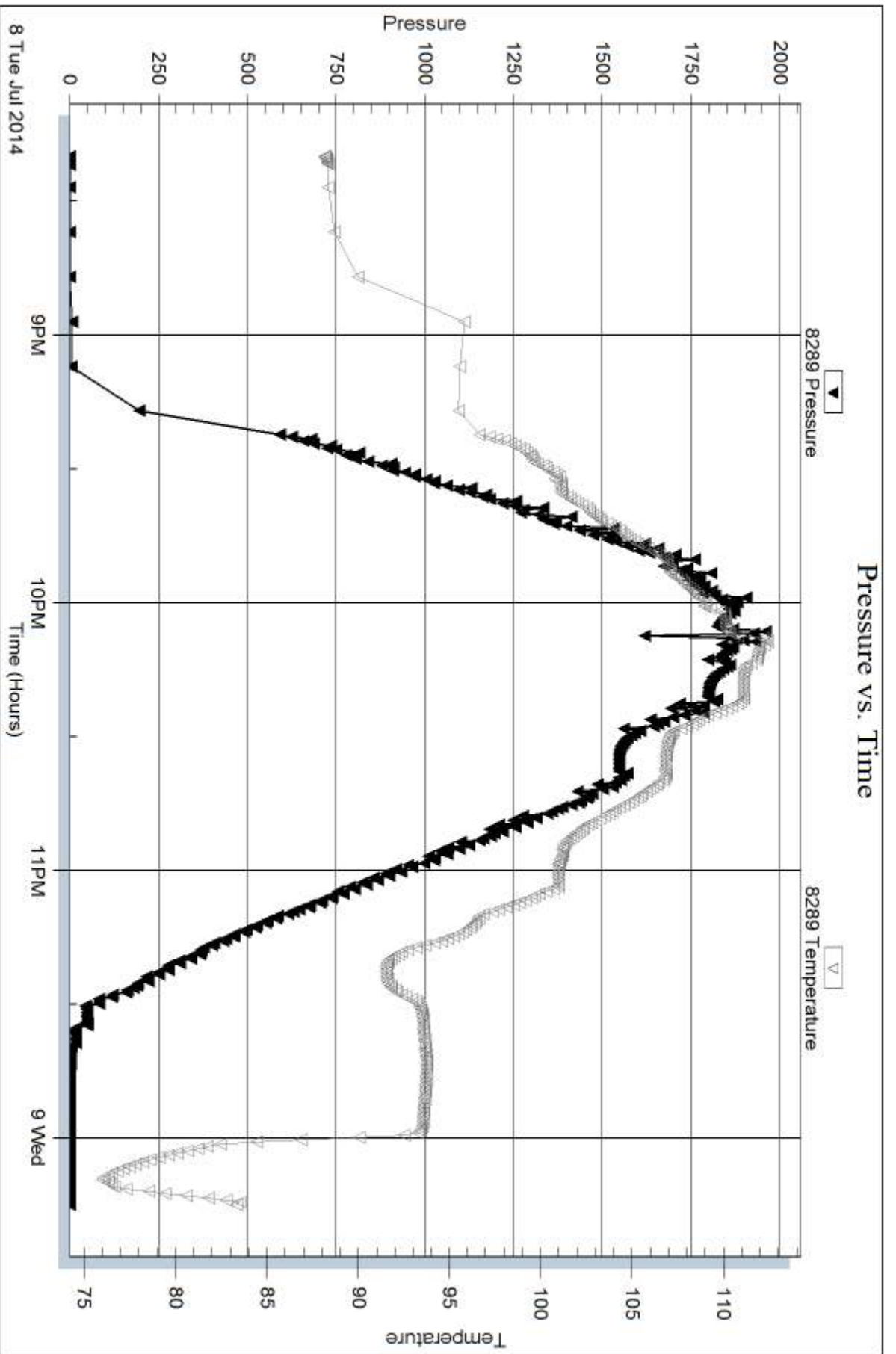
Recovery Comments:

Serial #: 8289

Outside Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59265

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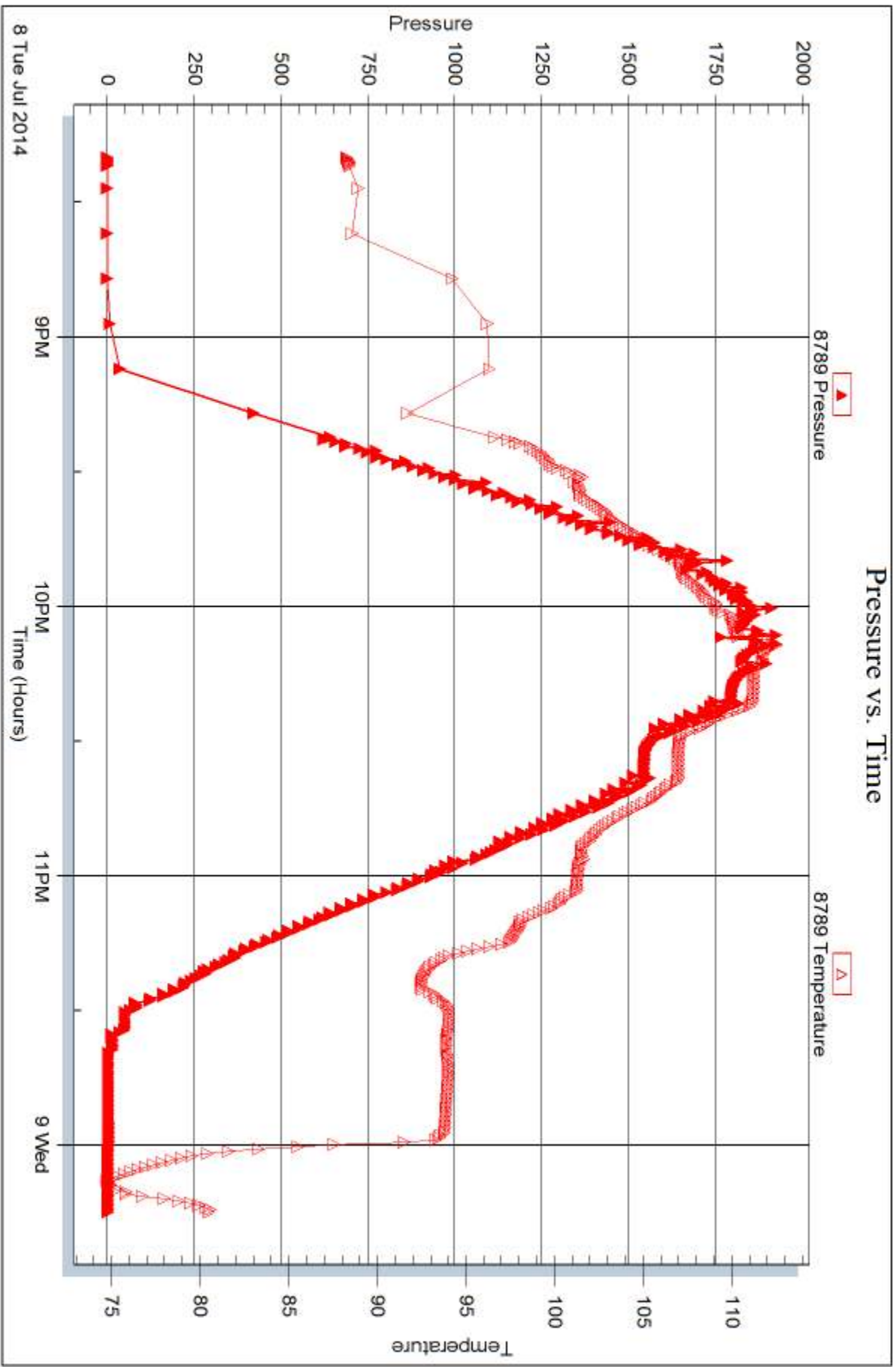
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.09 @ 00:32:00

End Date: 2014.07.09 @ 07:08:00

Job Ticket #: 59266 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

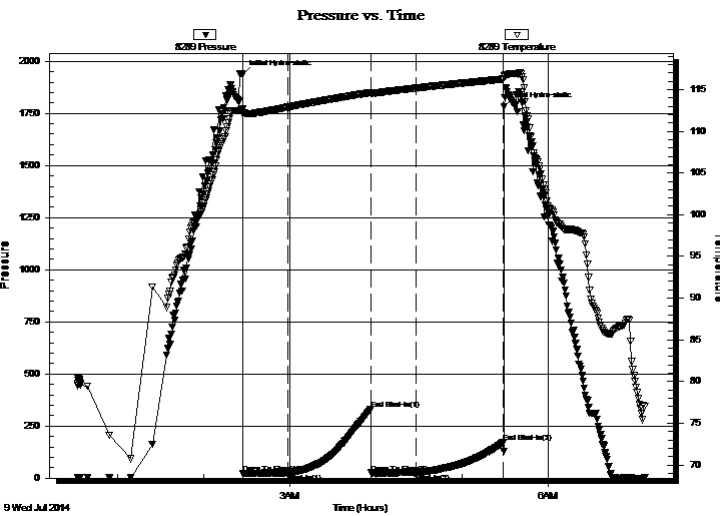
32 16s 19w Rush, KS
Littler LLC B 1-32
Job Ticket: 59266 **DST#: 2**
Test Start: 2014.07.09 @ 00:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:27:00
Time Test Ended: 07:08:00
Interval: **3769.00 ft (KB) To 3816.00 ft (KB) (TVD)**
Total Depth: 3816.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2064.00 ft (KB)
2059.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
Press@RunDepth: 25.41 psig @ 3781.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.09
Start Time: 00:32:02 End Time: 07:07:45 Time On Btm: 2014.07.09 @ 02:26:45
Time Off Btm: 2014.07.09 @ 05:29:15

TEST COMMENT: 30-IFP- Surface Blow { Weak }
60-ISIP- No Blow
30-FFP- No Blow
60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.05	112.67	Initial Hydro-static
1	23.19	112.12	Open To Flow (1)
32	24.18	112.88	Shut-In(1)
90	329.63	114.63	End Shut-In(1)
90	25.18	114.53	Open To Flow (2)
122	25.41	115.19	Shut-In(2)
182	171.27	116.25	End Shut-In(2)
183	1783.31	116.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	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
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59266 **DST#: 2**
Test Start: 2014.07.09 @ 00:32:00

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3769.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3749.00	
Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Packer	5.00			3764.00	21.00 Bottom Of Top Packer
Packer	5.00			3769.00	
Stubb	1.00			3770.00	
Perforations	10.00			3780.00	
Change Over Sub	1.00			3781.00	
Recorder	0.00	8789	Inside	3781.00	
Recorder	0.00	8289	Outside	3781.00	
Blank Spacing	31.00			3812.00	
Change Over Sub	1.00			3813.00	
Bullnose	3.00			3816.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Littler LLC B 1-32
Job Ticket: 59266 **DST#: 2**
Test Start: 2014.07.09 @ 00:32:00

Mud and Cushion Information

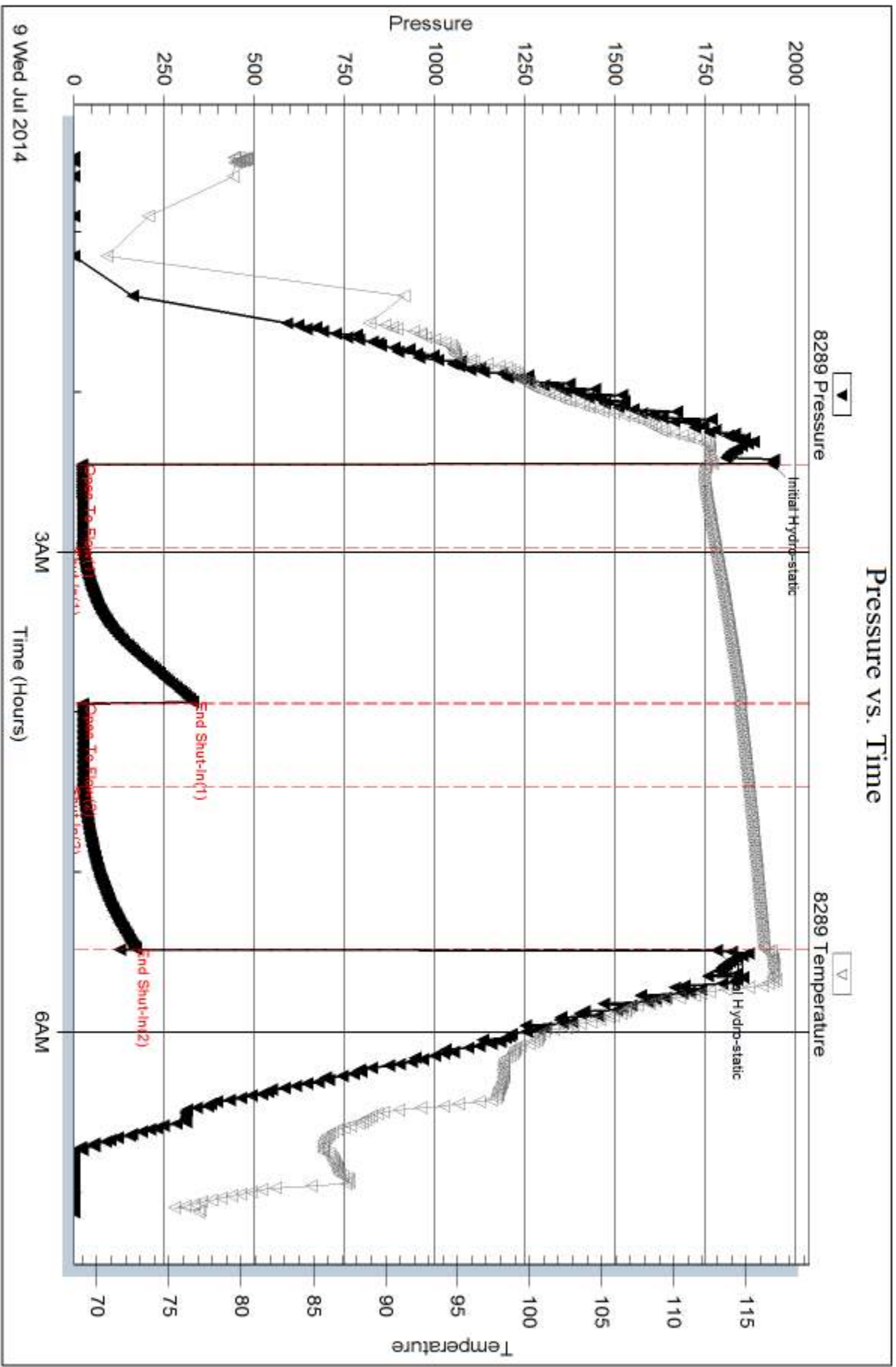
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.93 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



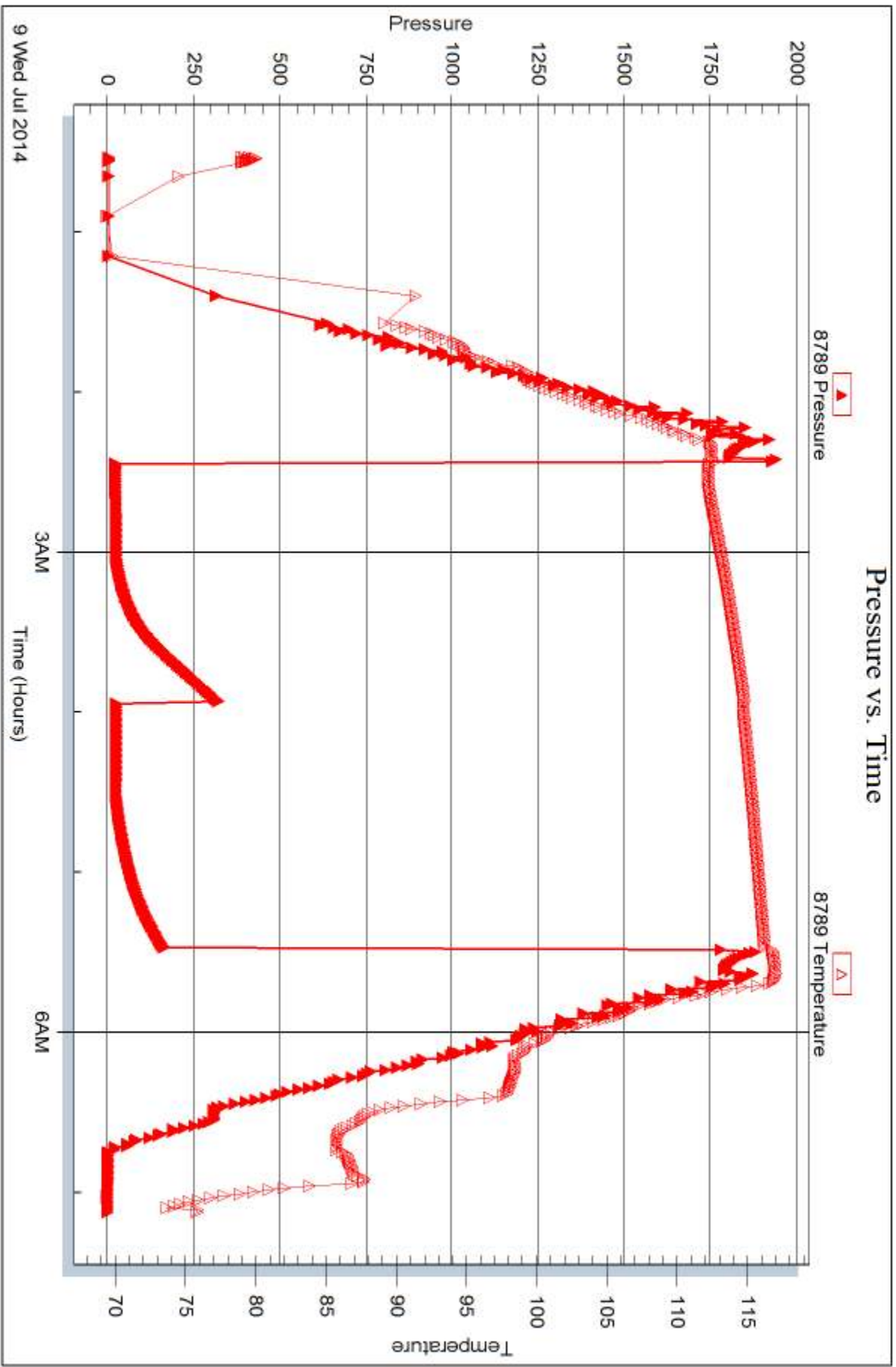
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 59266

Printed: 2014.07.15 @ 07:55:00



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.09 @ 13:26:00

End Date: 2014.07.09 @ 20:29:00

Job Ticket #: 59267 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.15 @ 07:54:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Jeff Christian

32 16s 19w Rush, KS
Littler LLC B 1-32
 Job Ticket: 59267 **DST#: 3**
 Test Start: 2014.07.09 @ 13:26:00

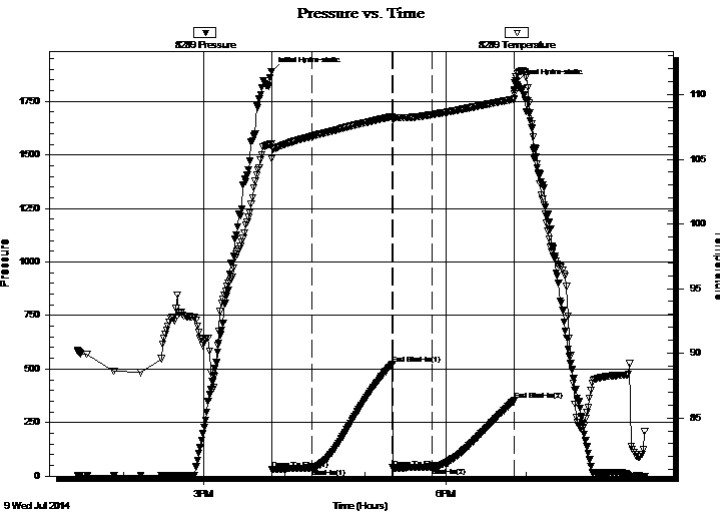
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:50:30
 Time Test Ended: 20:29:00
 Interval: **3768.00 ft (KB) To 3826.00 ft (KB) (TVD)**
 Total Depth: 3826.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2064.00 ft (KB)
 2059.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 39.89 psig @ 3786.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.09
 Start Time: 13:26:02 End Time: 20:29:00 Time On Btm: 2014.07.09 @ 15:50:15
 Time Off Btm: 2014.07.09 @ 18:51:30

TEST COMMENT: 30-IFP- 1/4" Blow
 60-ISIP- No Blow
 30-FFP- Surface Blow Died in 7 min.
 60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.26	106.20	Initial Hydro-static
1	31.31	105.02	Open To Flow (1)
31	34.87	106.78	Shut-In(1)
90	524.26	108.30	End Shut-In(1)
91	38.59	108.05	Open To Flow (2)
120	39.89	108.45	Shut-In(2)
181	352.41	109.65	End Shut-In(2)
182	1834.49	110.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	Mud 100%	0.18

* 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
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Little LLC B 1-32
Job Ticket: 59267 **DST#: 3**
Test Start: 2014.07.09 @ 13:26:00

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 52.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3768.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3748.00	
Shut In Tool	5.00			3753.00	
Hydraulic tool	5.00			3758.00	
Packer	5.00			3763.00	21.00 Bottom Of Top Packer
Packer	5.00			3768.00	
Stubb	1.00			3769.00	
Perforations	16.00			3785.00	
Change Over Sub	1.00			3786.00	
Recorder	0.00	8789	Inside	3786.00	
Recorder	0.00	8289	Outside	3786.00	
Blank Spacing	31.00			3817.00	
Change Over Sub	1.00			3818.00	
Perforations	5.00			3823.00	
Bullnose	3.00			3826.00	58.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Little LLC B 1-32
Job Ticket: 59267 **DST#: 3**
Test Start: 2014.07.09 @ 13:26:00

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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.75 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

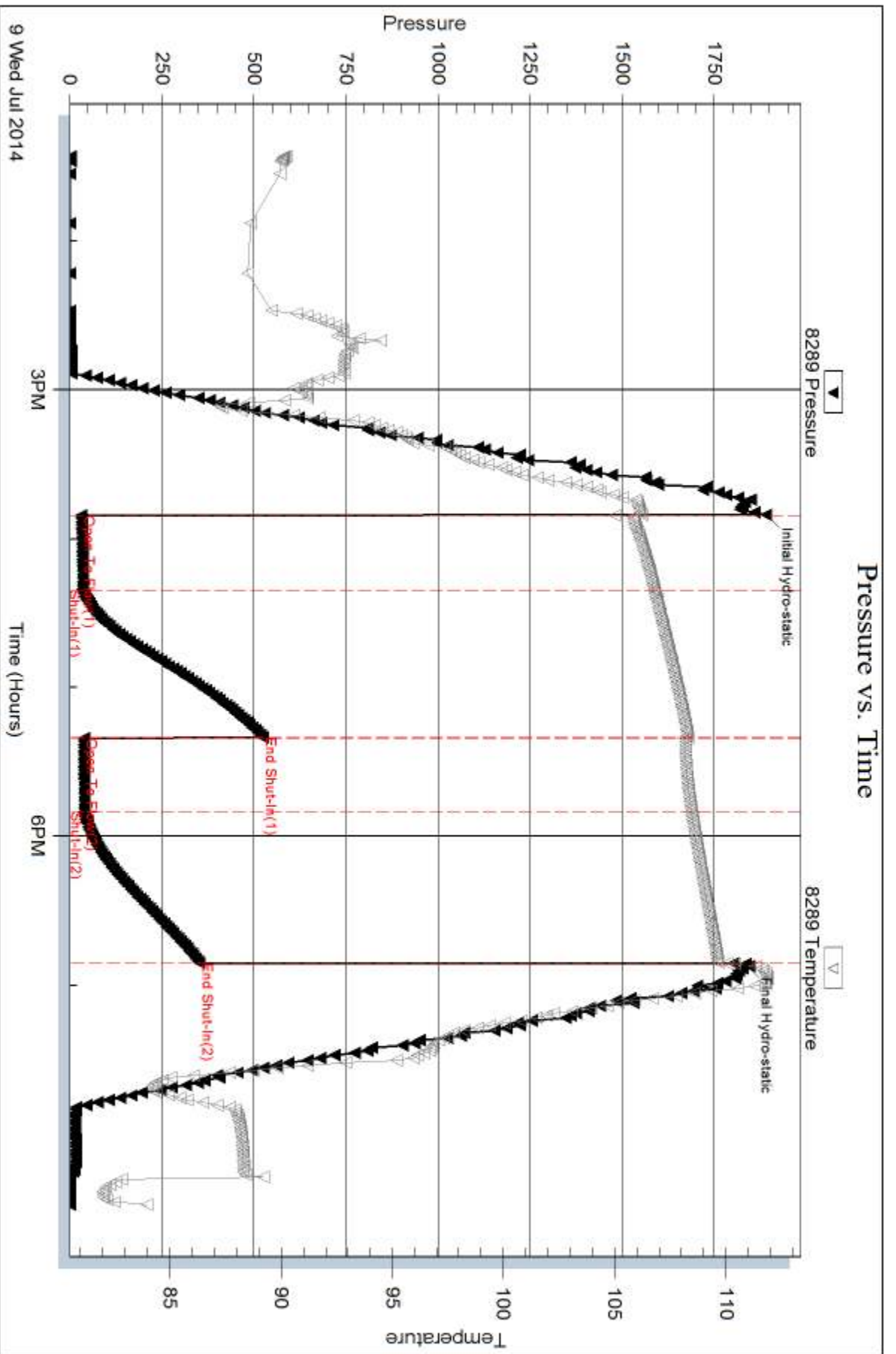
Length ft	Description	Volume bbl
32.00	Mud 100%	0.185

Total Length: 32.00 ft Total Volume: 0.185 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



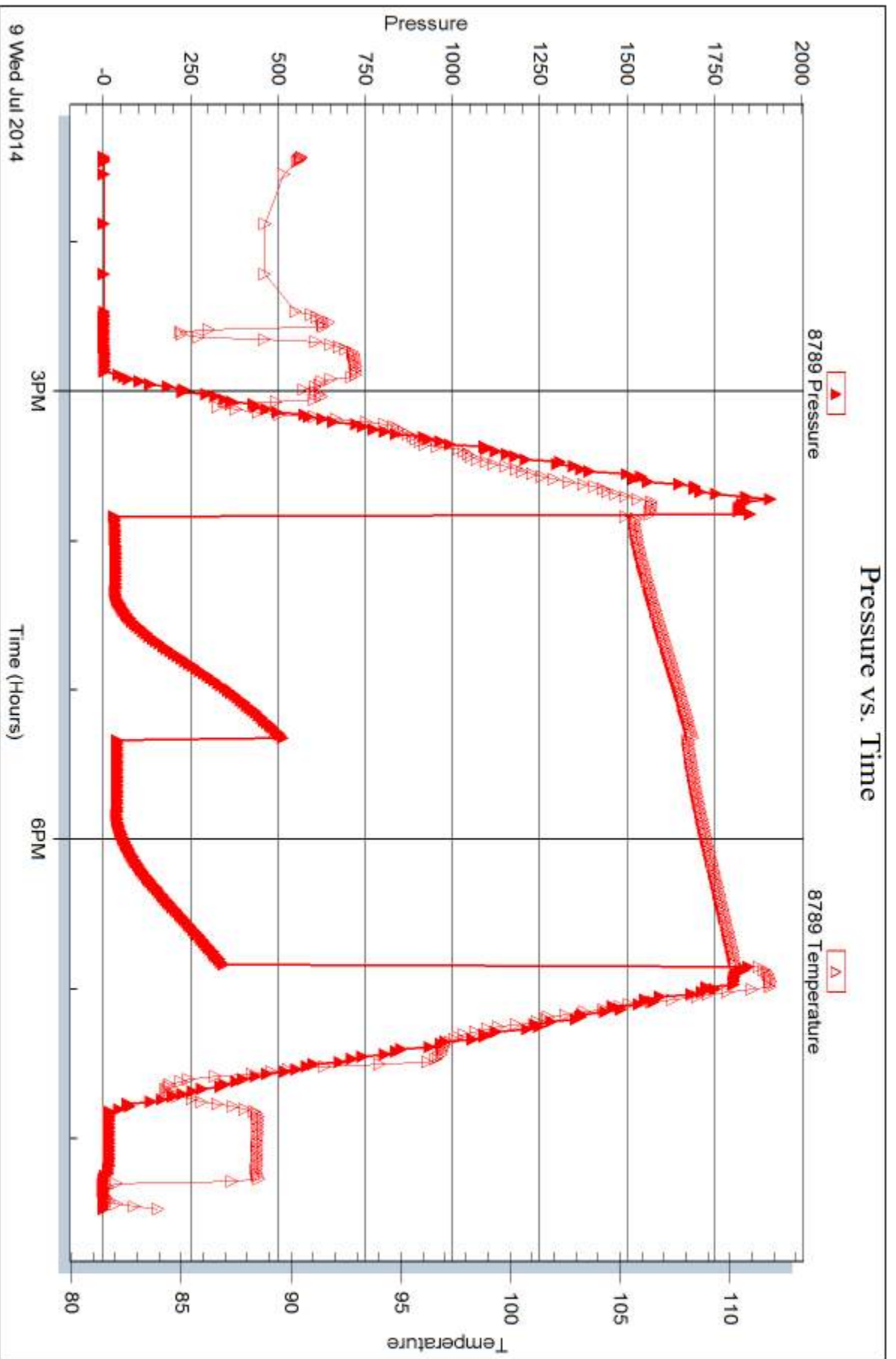
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59267

Printed: 2014.07.15 @ 07:54:36



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Jeff Christian

Little LLC B 1-32

32 16s 19w Rush,KS

Start Date: 2014.07.10 @ 03:05:00

End Date: 2014.07.10 @ 10:19:00

Job Ticket #: 59268 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.15 @ 07:53:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
 250 N Water Ste 300
 Wichita KS 67202-1216
 ATTN: Jeff Christian

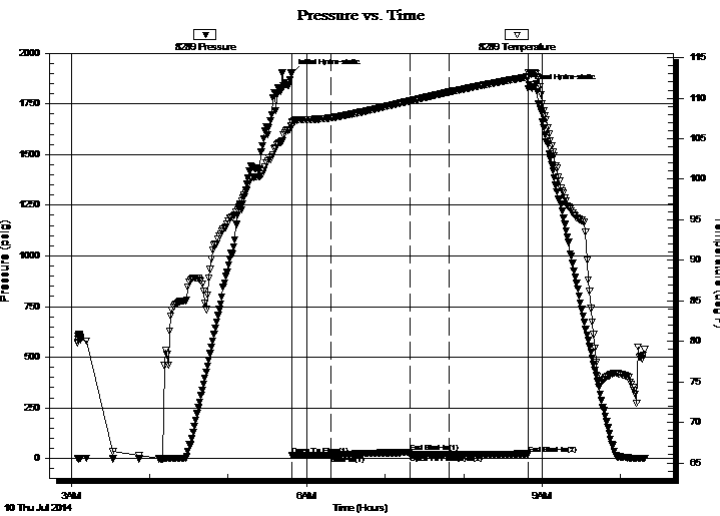
32 16s 19w Rush, KS
Littler LLC B 1-32
 Job Ticket: 59268 **DST#: 4**
 Test Start: 2014.07.10 @ 03:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:49:00
 Time Test Ended: 10:19:00
 Interval: **3824.00 ft (KB) To 3836.00 ft (KB) (TVD)**
 Total Depth: 3836.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2064.00 ft (KB)
 2059.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 20.89 psig @ 3825.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.10 End Date: 2014.07.10 Last Calib.: 2014.07.10
 Start Time: 03:05:02 End Time: 10:19:00 Time On Btm: 2014.07.10 @ 05:48:45
 Time Off Btm: 2014.07.10 @ 08:49:15

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 12 min.
 60-ISIP- No Blow
 30-FFP- No Blow
 60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.23	107.04	Initial Hydro-static
1	17.50	106.58	Open To Flow (1)
30	17.76	107.59	Shut-In(1)
90	30.42	109.66	End Shut-In(1)
91	20.67	109.66	Open To Flow (2)
120	20.89	110.74	Shut-In(2)
181	22.81	112.62	End Shut-In(2)
181	1826.06	113.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	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
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush,KS
Littler LLC B 1-32
Job Ticket: 59268 **DST#: 4**
Test Start: 2014.07.10 @ 03:05:00

Tool Information

Drill Pipe:	Length: 3797.00 ft	Diameter: 3.80 inches	Volume: 53.26 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3824.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 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			3804.00	
Shut In Tool	5.00			3809.00	
Hydraulic tool	5.00			3814.00	
Packer	5.00			3819.00	21.00 Bottom Of Top Packer
Packer	5.00			3824.00	
Stubb	1.00			3825.00	
Recorder	0.00	8789	Inside	3825.00	
Recorder	0.00	8289	Outside	3825.00	
Blank Spacing	8.00			3833.00	
Bullnose	3.00			3836.00	12.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202-1216
ATTN: Jeff Christian

32 16s 19w Rush, KS
Littler LLC B 1-32
Job Ticket: 59268 **DST#: 4**
Test Start: 2014.07.10 @ 03:05:00

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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

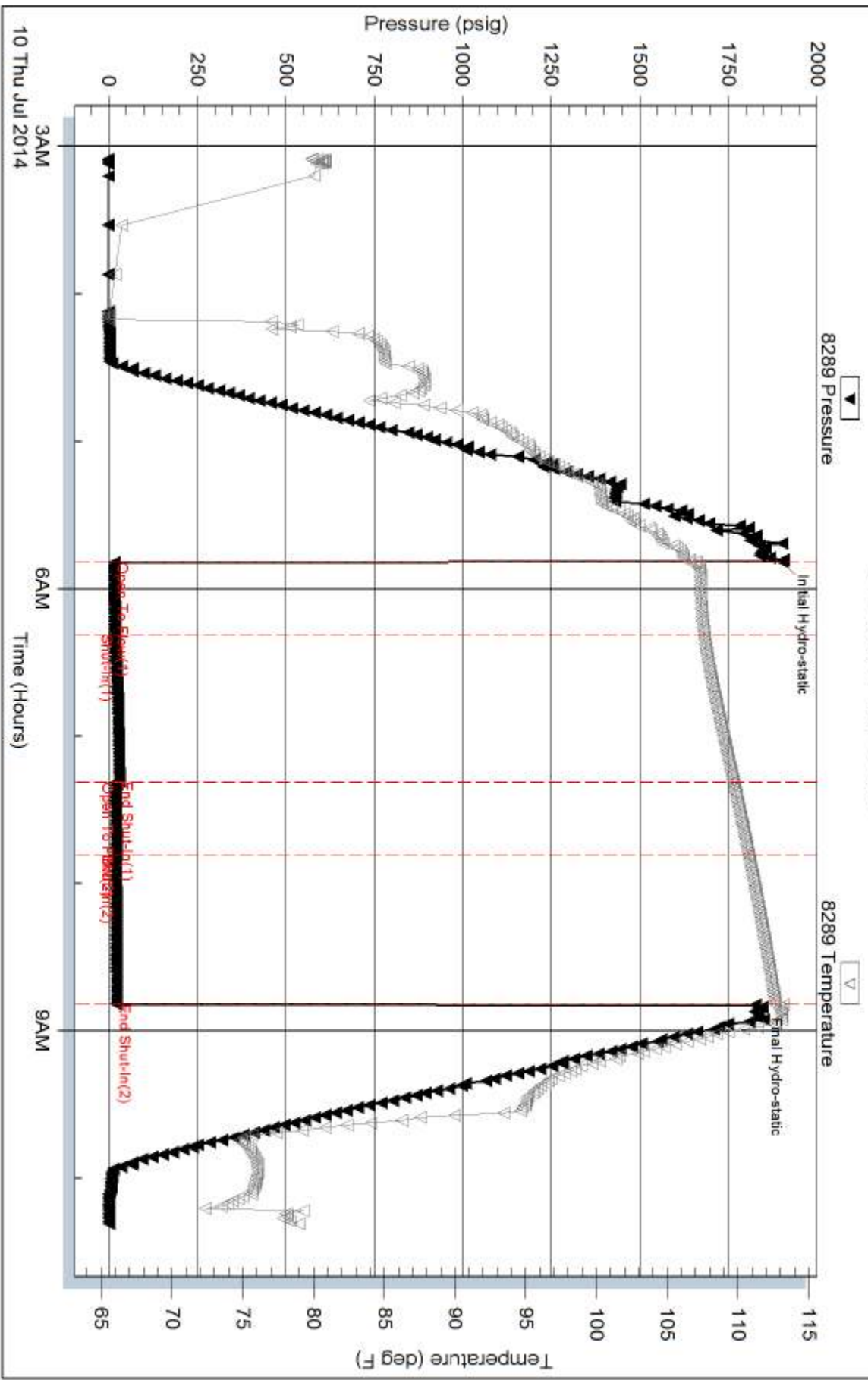
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



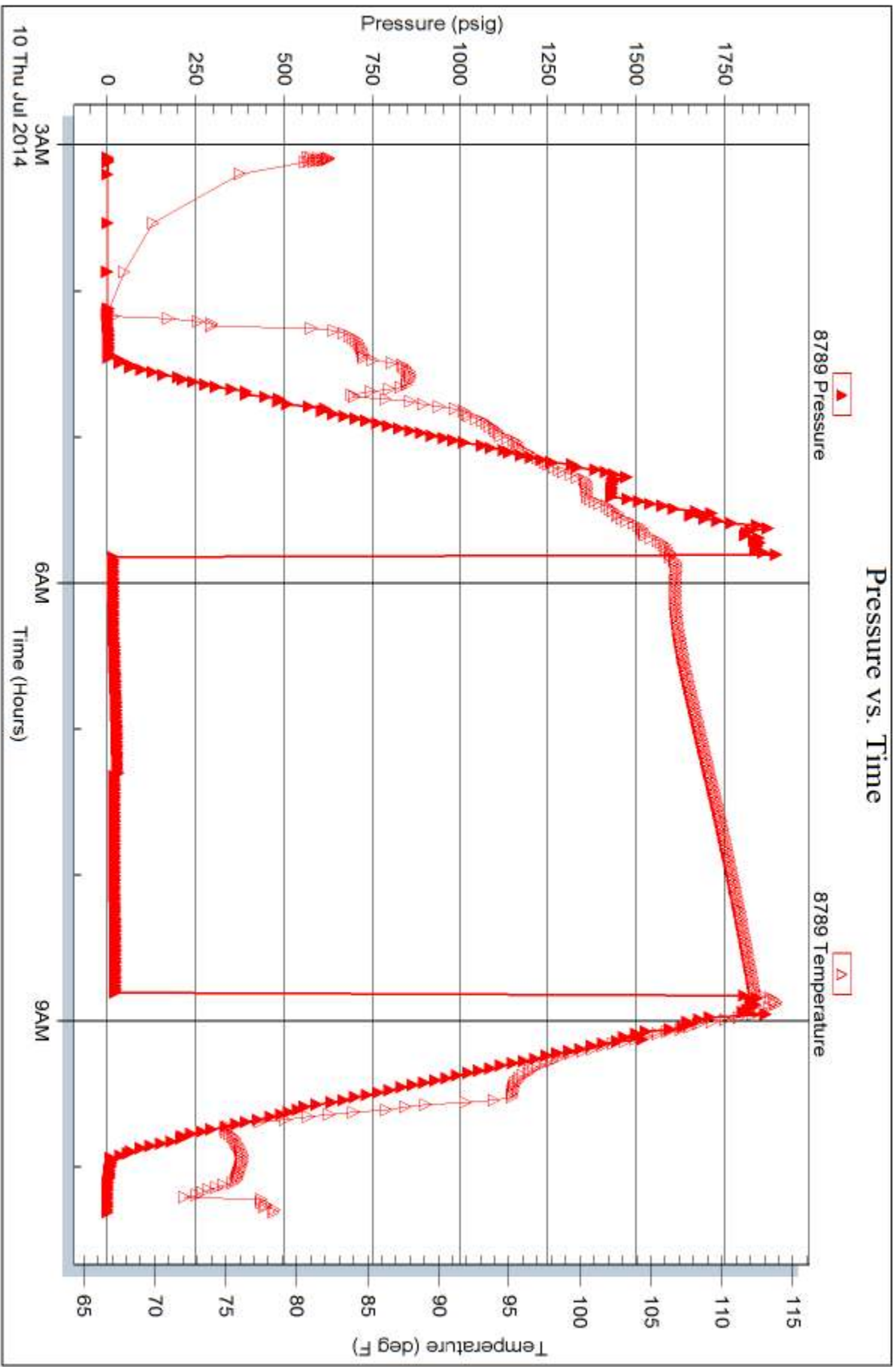
Serial #: 8789

Inside

Murfin Drilling Co Inc

Litter LLC B 1-32

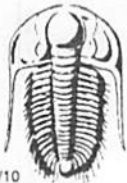
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 59268

Printed: 2014.07.15 @ 07:53:36



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59265 21234

Well Name & No. Little LLC "B" #1-32 Test No. 1 Date 7-8-14
 Company Murfin Drilling Co. Inc. Elevation 2064 KB 20.59 GL
 Address 250 N. Water Ste 300 Wichita KS 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig Rush Murfin 16
 Location: Sec. 32 Twp. 16^S Rge. 19W Co. Rush State KS

Interval Tested 3793-3816 Zone Tested Arbuckle
 Anchor Length 23 Drill Pipe Run 3766 Mud Wt. 9.5
 Top Packer Depth 3788 Drill Collars Run 29 Vis 57
 Bottom Packer Depth 3793 Wt. Pipe Run 0 WL 12
 Total Depth 3816 Chlorides 12000 ppm System LCM N/A

Blow Description Miss Run - Packer Failed

Rec	Feet of	%gas	%oil	%water	%mud
<u>160</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 160 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

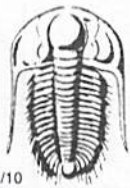
(A) Initial Hydrostatic _____ Test _____ T-On Location 18:40
 (B) First Initial Flow _____ Jars _____ T-Started 20:20
 (C) First Final Flow _____ Safety Joint _____ T-Open 22:07
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 22:15
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 00:15

(F) Second Final Flow _____ Mileage 52 RT 80.60 Comments _____

(G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 0
 Final Flow _____ Day Standby _____ Total 1030.60
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1030.60

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59266

Well Name & No. Litler LLC "B" 1-32 Test No. 2 Date 7-9-14
 Company Murfin Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. Water Ste 300 Wichita KS. 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig Murfin 16
 Location: Sec. 32 Twp. 16^s Rge. 19^w Co. Rush State KS

Interval Tested 3769-3816 Zone Tested Arbuckle
 Anchor Length 47 Drill Pipe Run 3733 Mud Wt. 9.5
 Top Packer Depth 3764 Drill Collars Run 29 Vis 57
 Bottom Packer Depth 3769 Wt. Pipe Run 0 WL 12
 Total Depth 3816 Chlorides 12000 ppm System LCM N/A

Blow Description IFP - Surface Blow (Weak)
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 116 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1936 Test 1150 T-On Location 18:40 7-8
 (B) First Initial Flow 23 Jars _____ T-Started 00:32
 (C) First Final Flow 24 Safety Joint _____ T-Open 02:27
 (D) Initial Shut-In 329 Circ Sub _____ T-Pulled 05:27
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 07:08
 (F) Second Final Flow 25 Mileage _____ Comments _____
 (G) Final Shut-In 171 Sampler _____
 (H) Final Hydrostatic 1783 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 1150
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1150

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59267

4/10

Well Name & No. LITLER LLC "B" 1-32 Test No. 3 Date 7-9-14
 Company MURFIN Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. WATER STE 300 WICHITA KS 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig MURFIN 16
 Location: Sec. 32 Twp. 16^S Rge. 19^W Co. Rush State KS

Interval Tested 3768-3826 Zone Tested Arbuckle
 Anchor Length 58 Drill Pipe Run 3733 Mud Wt. 9.5
 Top Packer Depth 3763 Drill Collars Run 29 Vis 67
 Bottom Packer Depth 3768 Wt. Pipe Run 0 WL 12.8
 Total Depth 3826 Chlorides 8000 ppm System LCM 2

Blow Description IFP - 1/4 in. Blow
ISIP - No Blow
FFP - Surface Blow Died in 7 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 32 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1890</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>13:25</u>
(B) First Initial Flow <u>31</u>	<input type="checkbox"/> Jars _____	T-Started <u>13:26</u>
(C) First Final Flow <u>34</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>15:51</u>
(D) Initial Shut-In <u>524</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:51</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:29</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>80.60</u>	Comments _____
(G) Final Shut-In <u>352</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1834</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1230.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1230.60</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59268

Well Name & No. Littler LLC "B" 1-32 Test No. 4 Date 7-10-14
 Company Murfin Drilling Co. Inc. Elevation 2064 KB 2059 GL
 Address 250 N. WATER Ste 300 WICHITA KS 67202-1216
 Co. Rep / Geo. JEFF CHRISTIAN Rig MURFIN 16
 Location: Sec. 32 Twp. 16^S Rge. 19^W Co. Rush State KS

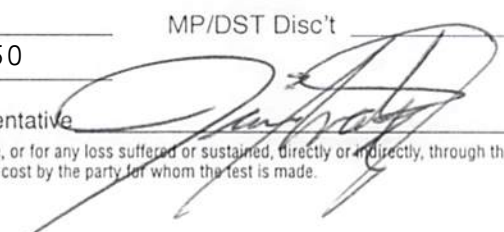
Interval Tested 3824-3836 Zone Tested Arbuckle
 Anchor Length 12 Drill Pipe Run 3797 Mud Wt. 9.5
 Top Packer Depth 3819 Drill Collars Run 29 Vis 67
 Bottom Packer Depth 3824 Wt. Pipe Run Ø WL 12.8
 Total Depth 3836 Chlorides 8000 ppm System LCM 2

Blow Description I/FP-Weak Surface Blow Died in 12min.
ISIP- No Blow
FFP- No Blow
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1901 Test 1150 T-On Location 02:20
 (B) First Initial Flow 17 Jars _____ T-Started 03:05
 (C) First Final Flow 17 Safety Joint _____ T-Open 05:49
 (D) Initial Shut-In 30 Circ Sub _____ T-Pulled 08:49
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 10:18
 (F) Second Final Flow 20 Mileage 80.60 Comments _____
 (G) Final Shut-In 22 Sampler _____
 (H) Final Hydrostatic 1826 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1230.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1230.60

Approved By _____ Our Representative 

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