

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1268260  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016

**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: \_\_\_\_\_

1268260



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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				

- Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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>	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	Guffey Trust 1-9
Doc ID	1268260

Tops

Name	Top	Datum
Anhydrite	1959	+1636
B/Anhydrite	1976	+1619
Heebner	3820	- 225
Lansing	3874	- 279
Stark	4220	- 625
Marmaton	4387	- 792
Ft. Scott	4523	- 928
Cherokee	4560	- 965
Atoka	4698	- 1103
Morrow	5034	- 1439
Upper Morrow Sand	5054	- 1459
LTD	5256	- 1661





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

SERVICE LOCATIONS: New City KS WELLS/PROJECT NO. 1-9 LEASE Coffey Trust COUNTY/PARISH Hawthorn STATE KS CITY Syracuse DATE 05 AUG 15 OWNER  
 TICKET TYPE  SERVICE  SALES CONTRACTOR  
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Drill RIG NAME/NO. 9 SHIPPED WT DELIVERED TO location ORDER NO.  
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			LIMIT
		LOC	ACCT	DF		QTY.	UM	QTY.	
<u>575</u>					MILEAGE	<u>1</u>	<u>TRK</u>	<u>100</u>	
<u>5765</u>					<u>Fung Charge</u>	<u>1</u>	<u>ea</u>		
<u>325</u>					<u>STANDARD cement</u>	<u>310</u>	<u>sk</u>		
<u>278</u>					<u>Calcium chloride</u>	<u>700</u>	<u>lb</u>	<u>14</u>	<u>sk</u>
<u>279</u>					<u>Bentonite gel</u>	<u>600</u>	<u>lb</u>	<u>60</u>	<u>sk</u>
<u>290</u>					<u>D-Air</u>	<u>2901</u>			
<u>381</u>					<u>Service charge</u>	<u>310</u>	<u>SK</u>		
<u>383</u>					<u>Drayage</u>	<u>3000</u>	<u>lb</u>	<u>1522</u>	<u>TW</u>

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 DATE SIGNED 8-25-15 TIME SIGNED  A.M.  P.M.  
 SIGNATURE: [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR [Signature] APPROVAL [Signature]  
 REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300  
 SURVEY:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  WE UNDERSTOOD AND MET YOUR NEEDS?  OUR SERVICE WAS PERFORMED WITHOUT DELAY?  WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  ARE YOU SATISFIED WITH OUR SERVICE?  
 TAX 7.5%  
 TOTAL

Thank You

**JOB LOG**

**SWIFT Services, Inc.**

DATE 25 AUG 15 PAGE NO. 1

CUSTOMER Mull Drilling WELL NO. 1-9 LEASE Guffey TRUST JOB TYPE Cement surface pipe TICKET NO. 28667

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								310 sk STANDARD cement 2% gel 3% CC TD = 370' 9 jts 13 3/8 x 48# casing 352' - 13 3/8 + 17' - 8 1/2 17 1/2" bit
	0200							on loc TRK 110
26 AUG	0130							start 13 3/8 x 48# casing in well
	0320							circulate well
	0350	3 3/4	75				200	Mix STD 2% 3% cement 2 10 5 1/2 @ 14. Tppg
	0414	6					200	Displace cements
		6	20				300	
		6	47				350	cement to surface
	0430	6	52				350	Kickout <span style="font-size: 2em;">}</span> 20 sacks to pit
	0432							shot in 13 3/8
	0435							wash truck
								Rack up
	0500							job complete
								Thanks Flint, Blaine & Rob



## DRILL STEM TEST REPORT

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

1700 N Waterfront Pkwy  
Bldg 12000  
Wichita, KS 67206

ATTN: Phil Askey

### **Guffey Trust #1-9**

#### **S9-25s-42w Hamilton,KS**

Start Date: 2015.08.31 @ 00:48:00

End Date: 2015.08.31 @ 07:59:00

Job Ticket #: 61710                      DST #: 1

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

Printed: 2015.09.03 @ 14:37:03

Mull Drilling Co., Inc.

S9-25s-42w Hamilton,KS

Guffey Trust #1-9

DST # 1

Upper Morrow.

2015.08.31



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co., Inc.  
 1700 N Waterfront Pkw y  
 Bldg 12000  
 Wichita, KS 67206  
 ATTN: Phil Askey

**S9-25s-42w Hamilton,KS**

**Guffey Trust #1-9**

Job Ticket: 61710 **DST#: 1**

Test Start: 2015.08.31 @ 00:48:00

## GENERAL INFORMATION:

Formation: **Upper Morrow.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:33:20  
 Time Test Ended: 07:59:00  
 Interval: **5007.00 ft (KB) To 5080.00 ft (KB) (TVD)**  
 Total Depth: 5080.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chuck Smith  
 Unit No: 61  
 Reference Elevations: 3595.00 ft (KB)  
 3582.00 ft (CF)  
 KB to GR/CF: 13.00 ft

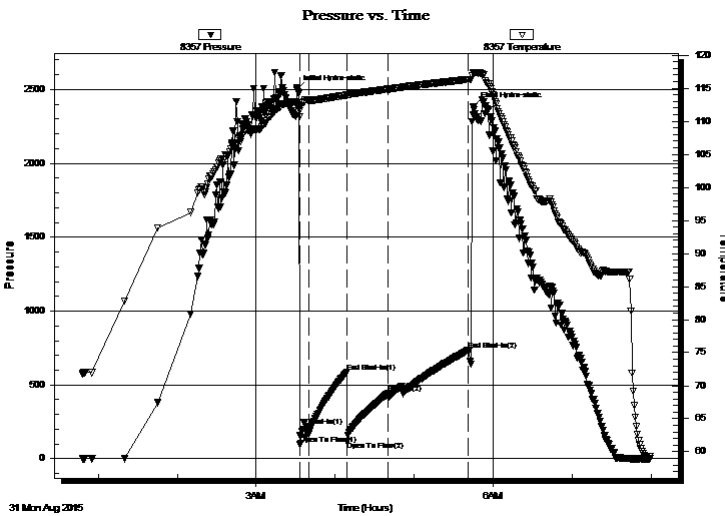
**Serial #: 8357**

**Inside**

Press@RunDepth: 442.97 psig @ 5008.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.31 End Date: 2015.08.31 Last Calib.: 2015.08.31  
 Start Time: 00:48:02 End Time: 07:59:00 Time On Btm: 2015.08.31 @ 03:30:50  
 Time Off Btm: 2015.08.31 @ 05:45:09

TEST COMMENT: 5- Surface blow throughout.  
 30- No return.  
 30- No blow .  
 60- No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2498.68	112.68	Initial Hydro-static
3	100.27	111.64	Open To Flow (1)
9	219.22	113.17	Shut-In(1)
38	586.72	113.97	End Shut-In(1)
39	115.60	113.91	Open To Flow (2)
70	442.97	114.86	Shut-In(2)
131	734.84	116.35	End Shut-In(2)
135	2381.36	117.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	M 100m with a couple oil spots.	0.22

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co., Inc.  
1700 N Waterfront Pkw y  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**S9-25s-42w Hamilton,KS**

**Guffey Trust #1-9**

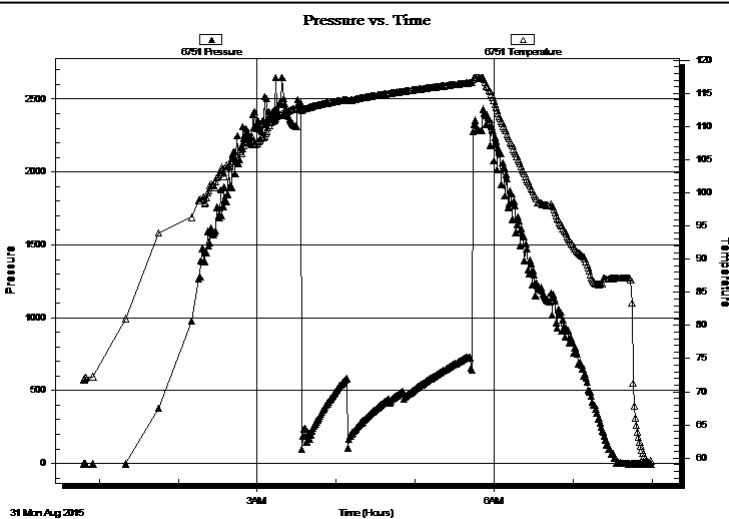
Job Ticket: 61710 **DST#: 1**  
Test Start: 2015.08.31 @ 00:48:00

## GENERAL INFORMATION:

Formation: **Upper Morrow.**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 03:33:20 Tester: Chuck Smith  
 Time Test Ended: 07:59:00 Unit No: 61  
**Interval: 5007.00 ft (KB) To 5080.00 ft (KB) (TVD)**  
 Reference Elevations: 3595.00 ft (KB)  
 Total Depth: 5080.00 ft (KB) (TVD) 3582.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

**Serial #: 6751 Outside**  
 Press@RunDepth: psig @ 5008.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.31 End Date: 2015.08.31 Last Calib.: 2015.08.31  
 Start Time: 00:48:02 End Time: 07:59:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 5- Surface blow throughout.  
 30- No return.  
 30- No blow .  
 60- No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	M 100m with a couple oil spots.	0.22

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co., Inc.

**S9-25s-42w Hamilton,KS**

1700 N Waterfront Pkwy  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**Guffey Trust #1-9**

Job Ticket: 61710

**DST#: 1**

Test Start: 2015.08.31 @ 00:48:00

## Tool Information

Drill Pipe:	Length: 4829.00 ft	Diameter: 3.82 inches	Volume: 68.45 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 69.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5007.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	100.50 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			4980.50	
Shut In Tool	5.00			4985.50	
Hydraulic tool	5.00			4990.50	
Jars	5.00			4995.50	
Safety Joint	2.50			4998.00	
Packer	5.00			5003.00	27.50 Bottom Of Top Packer
Packer	4.00			5007.00	
Stubb	1.00			5008.00	
Recorder	0.00	8357	Inside	5008.00	
Recorder	0.00	6751	Outside	5008.00	
Perforations	35.00			5043.00	
Change Over Sub	1.00			5044.00	
Drill Pipe	32.00			5076.00	
Change Over Sub	1.00			5077.00	
Bullnose	3.00			5080.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 100.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Co., Inc.

**S9-25s-42w Hamilton,KS**

1700 N Waterfront Pkw y  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**Guffey Trust #1-9**

Job Ticket: 61710

**DST#: 1**

Test Start: 2015.08.31 @ 00:48:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	M 100m w ith a couple oil spots.	0.221

Total Length: 45.00 ft      Total Volume: 0.221 bbl

Num Fluid Samples: 0

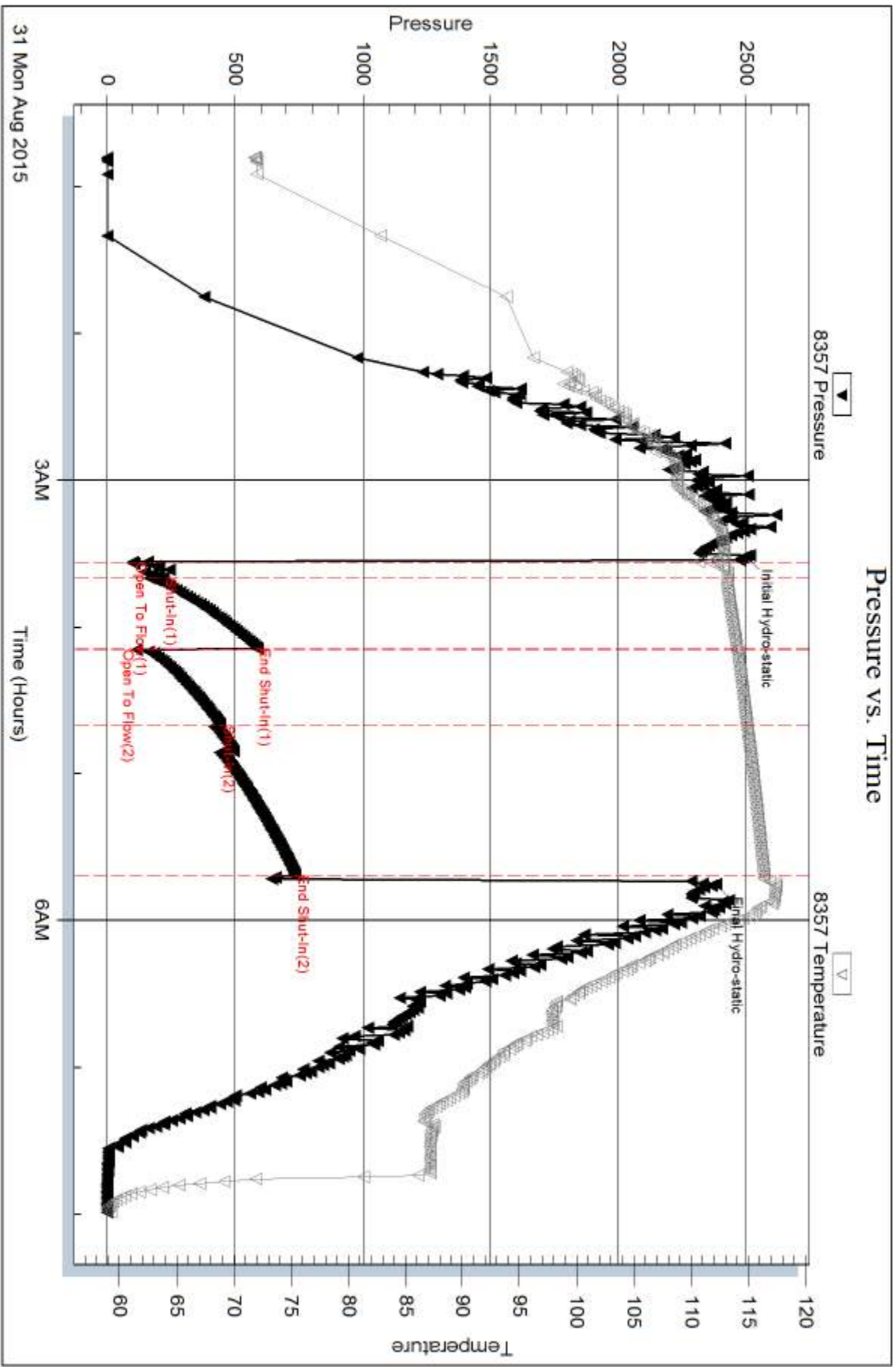
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



31 Mon Aug 2015

3AM

Time (Hours)

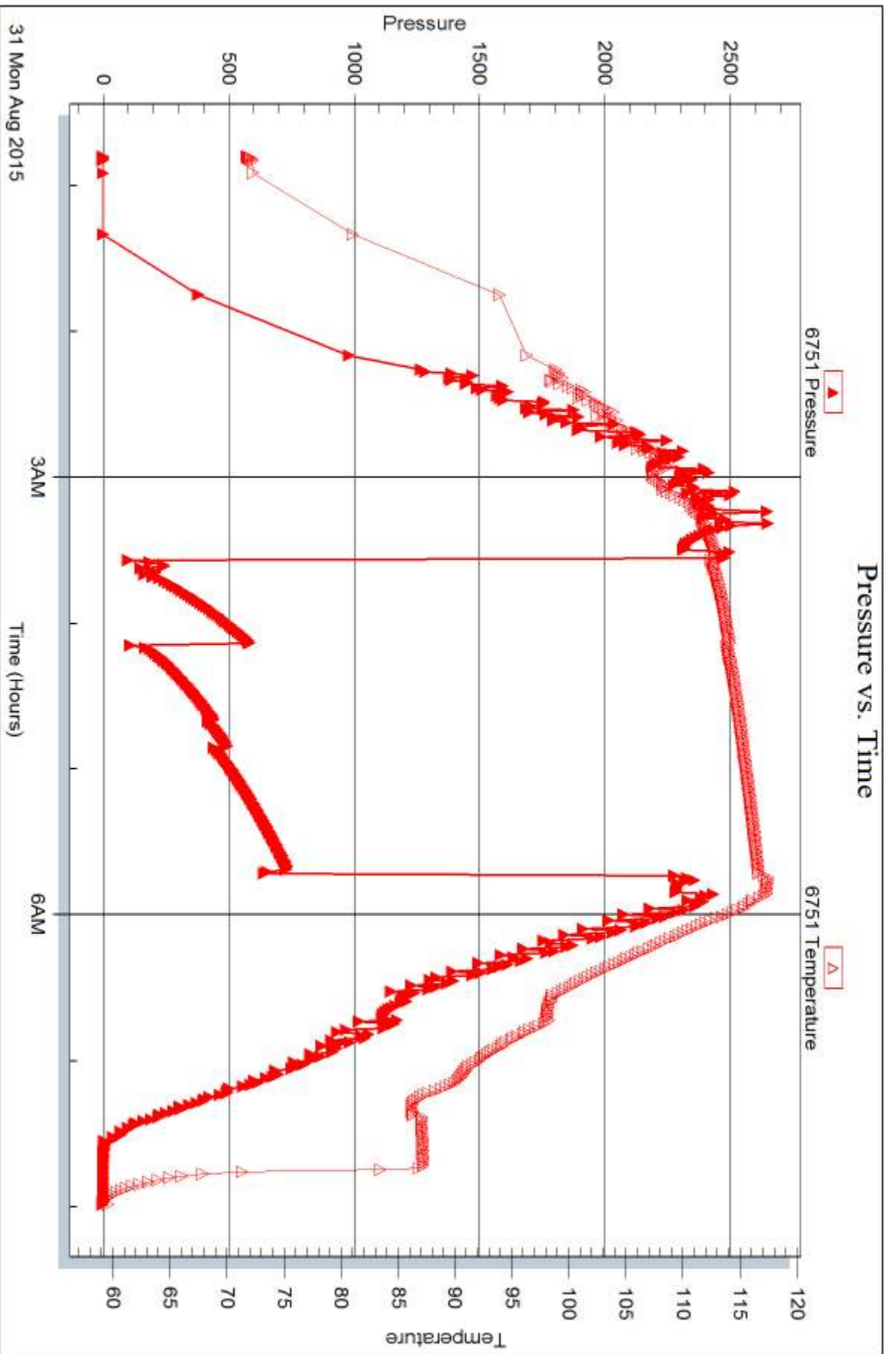
6AM

Serial #: 6751

Outside Mall Drilling Co., Inc.

Guffey Trust#1-9

DST Test Number: 1





## DRILL STEM TEST REPORT

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

1700 N Waterfront Pkwy  
Bldg 12000  
Wichita, KS 67206

ATTN: Phil Askey

### **Guffey Trust #1-9**

#### **S9-25s-42w Hamilton,KS**

Start Date: 2015.09.01 @ 04:32:00

End Date: 2015.09.01 @ 11:33:39

Job Ticket #: 61711                      DST #: 2

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

Printed: 2015.09.03 @ 14:36:24

Mull Drilling Co., Inc.

S9-25s-42w Hamilton,KS

Guffey Trust #1-9

DST # 2

Mid Morrow Sand

2015.09.01



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Co., Inc.  
 1700 N Waterfront Pkw y  
 Bldg 12000  
 Wichita, KS 67206  
 ATTN: Phil Askey

**S9-25s-42w Hamilton,KS**

**Guffey Trust #1-9**

Job Ticket: 61711 **DST#: 2**

Test Start: 2015.09.01 @ 04:32:00

## GENERAL INFORMATION:

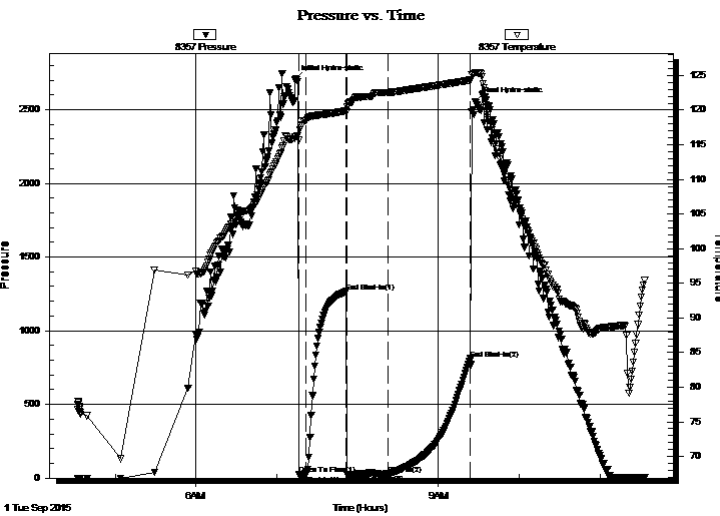
Formation: **Mid Morrow Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:16:20  
 Time Test Ended: 11:33:39  
 Interval: **5302.00 ft (KB) To 5340.00 ft (KB) (TVD)**  
 Total Depth: 5340.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Smith  
 Unit No: 61  
 Reference Elevations: 3595.00 ft (KB)  
 3582.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 8357

Inside

Press@RunDepth: 27.60 psig @ 5303.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.09.01 End Date: 2015.09.01 Last Calib.: 2015.09.01  
 Start Time: 04:32:02 End Time: 11:33:40 Time On Btm: 2015.09.01 @ 07:13:30  
 Time Off Btm: 2015.09.01 @ 09:27:09

TEST COMMENT: 5- Surface blow throughout.  
 30- No return.  
 30- No blow .  
 60- No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2702.15	116.13	Initial Hydro-static
3	23.22	115.64	Open To Flow (1)
8	20.99	118.52	Shut-In(1)
38	1266.46	119.91	End Shut-In(1)
39	25.48	119.75	Open To Flow (2)
69	27.60	122.53	Shut-In(2)
131	810.03	124.34	End Shut-In(2)
134	2554.74	125.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSOCM 1 to 99m	0.20

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Co., Inc.  
1700 N Waterfront Pkw y  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**S9-25s-42w Hamilton,KS**

**Guffey Trust #1-9**

Job Ticket: 61711                      **DST#: 2**

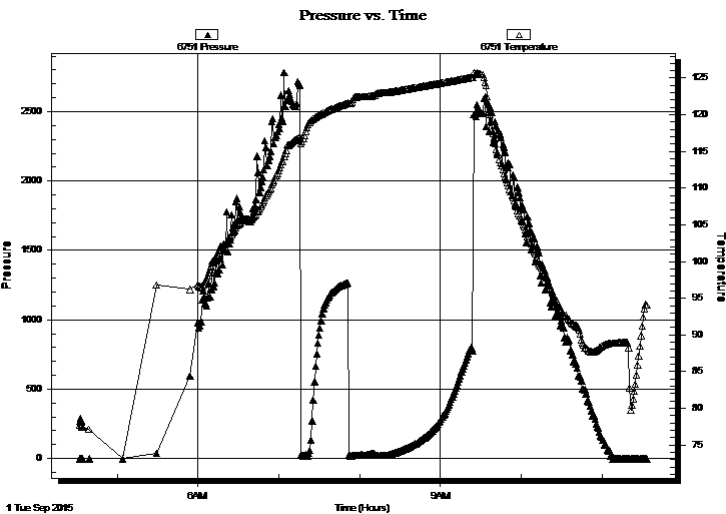
Test Start: 2015.09.01 @ 04:32:00

**GENERAL INFORMATION:**

Formation: <b>Mid Morrow Sand</b>			
Deviated: No Whipstock:                      ft (KB)	Test Type: Conventional Bottom Hole (Reset)		
Time Tool Opened: 07:16:20	Tester: Chuck Smith		
Time Test Ended: 11:33:39	Unit No: 61		
<b>Interval: 5302.00 ft (KB) To 5340.00 ft (KB) (TVD)</b>	Reference Elevations: 3595.00 ft (KB)		
Total Depth: 5340.00 ft (KB) (TVD)	3582.00 ft (CF)		
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF: 13.00 ft		

<b>Serial #: 6751</b>	<b>Outside</b>				
Press@RunDepth:                      psig @ 5303.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2015.09.01                      End Date: 2015.09.01	Last Calib.: 2015.09.01				
Start Time: 04:32:02                      End Time: 11:33:40	Time On Btm:				
	Time Off Btm:				

**TEST COMMENT:** 5- Surface blow throughout.  
30- No return.  
30- No blow .  
60- No return.



1 Tue Sep 2015

**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
40.00	VSOCM 1 to 99m	0.20

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co., Inc.

**S9-25s-42w Hamilton,KS**

1700 N Waterfront Pkwy  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**Guffey Trust #1-9**

Job Ticket: 61711

**DST#: 2**

Test Start: 2015.09.01 @ 04:32:00

## Tool Information

Drill Pipe:	Length: 5114.00 ft	Diameter: 3.82 inches	Volume: 72.49 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 73.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.50 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	5302.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.50 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			5275.50	
Shut In Tool	5.00			5280.50	
Hydraulic tool	5.00			5285.50	
Jars	5.00			5290.50	
Safety Joint	2.50			5293.00	
Packer	5.00			5298.00	27.50 Bottom Of Top Packer
Packer	4.00			5302.00	
Stubb	1.00			5303.00	
Recorder	0.00	8357	Inside	5303.00	
Recorder	0.00	6751	Outside	5303.00	
Perforations	34.00			5337.00	
Bullnose	3.00			5340.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 65.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Co., Inc.

**S9-25s-42w Hamilton,KS**

1700 N Waterfront Pkw y  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**Guffey Trust #1-9**

Job Ticket: 61711

**DST#: 2**

Test Start: 2015.09.01 @ 04:32:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	VSOCM 1o 99m	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

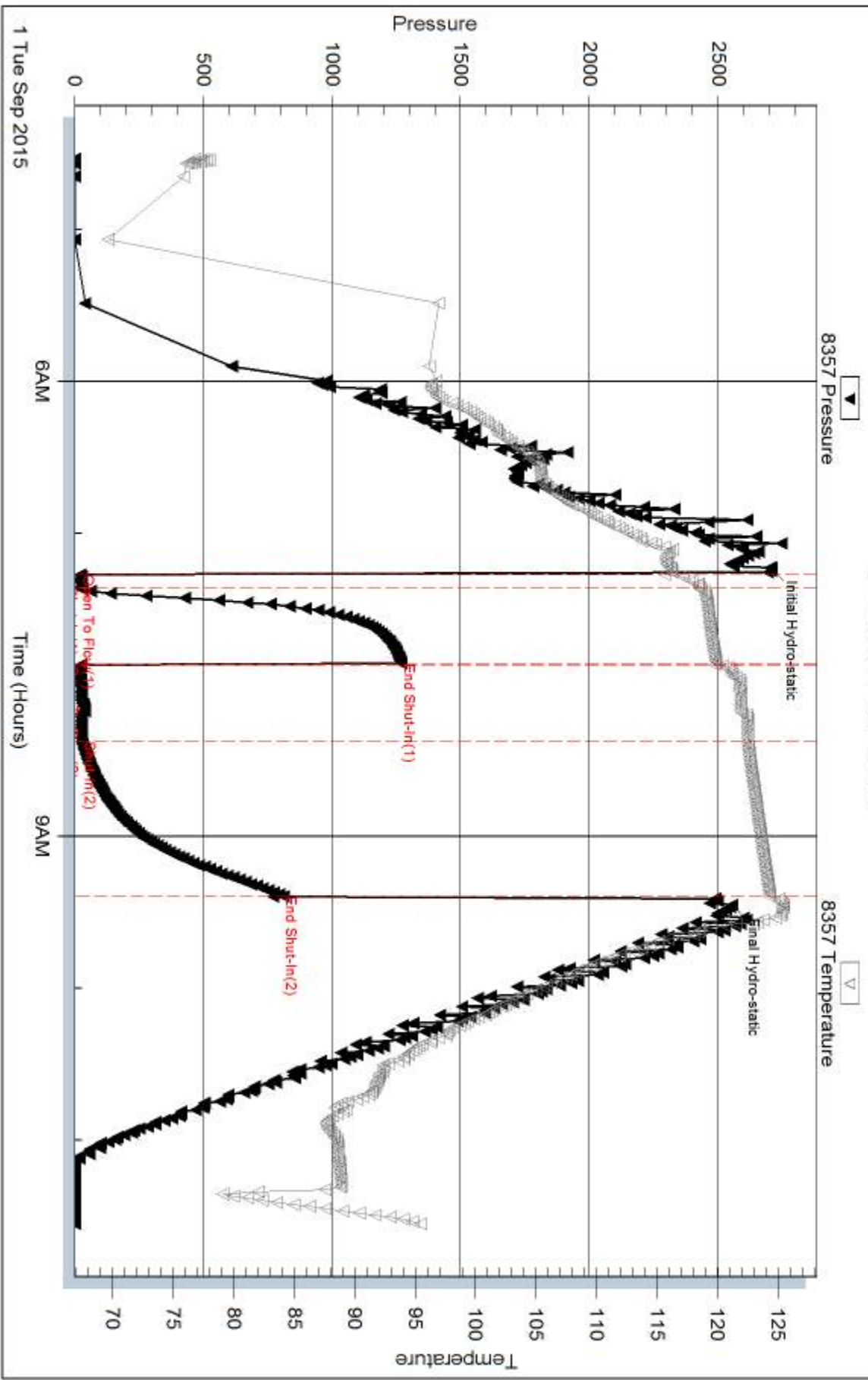
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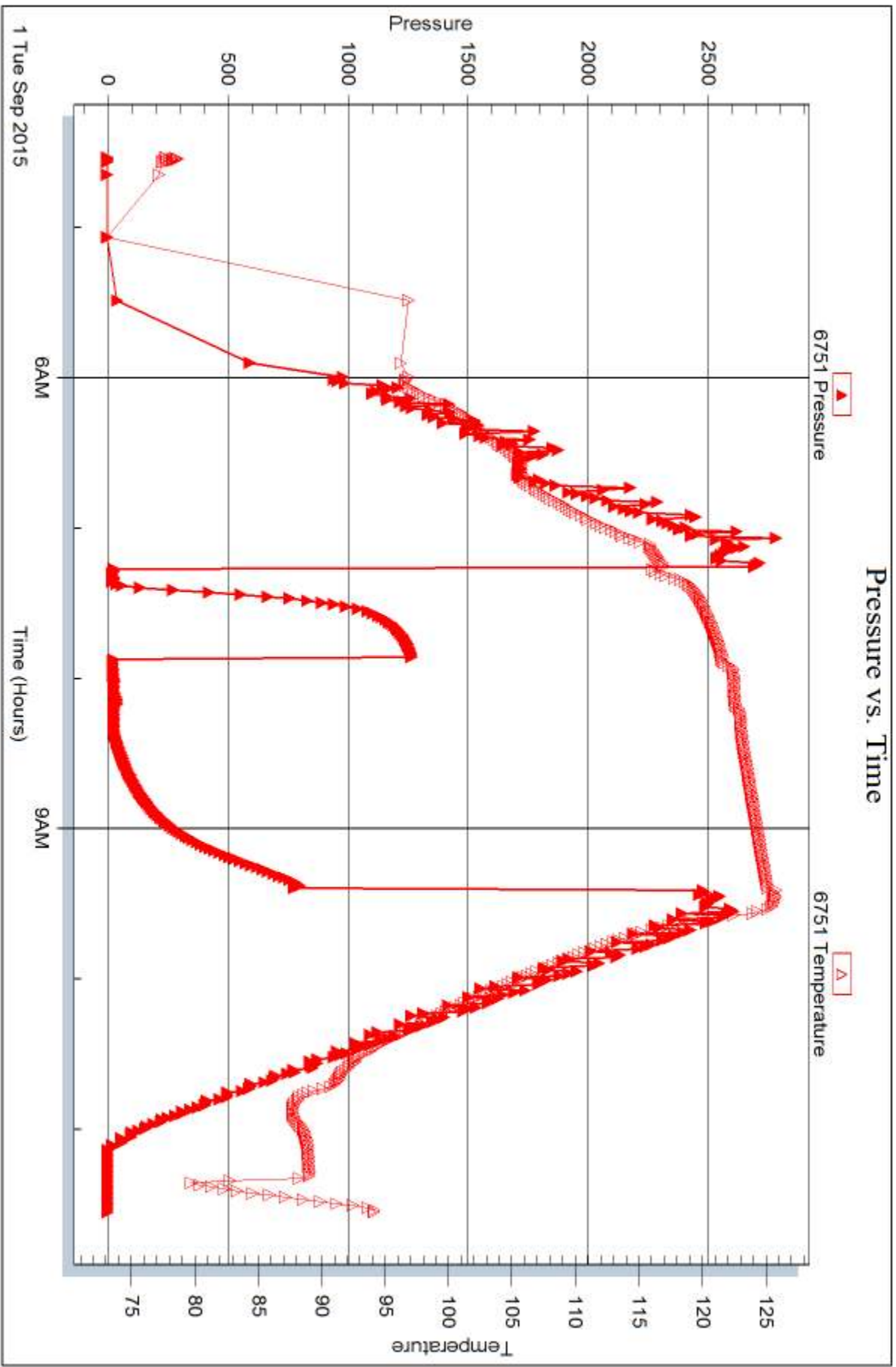
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

1700 N Waterfront Pkwy  
Bldg 12000  
Wichita, KS 67206

ATTN: Phil Askey

### **Guffey Trust #1-9**

#### **S9-25s-42w Hamilton,KS**

Start Date: 2015.09.02 @ 11:00:02

End Date: 2015.09.02 @ 18:41:10

Job Ticket #: 61712                      DST #: 3

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

Printed: 2015.09.03 @ 14:34:52



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Co., Inc.  
 1700 N Waterfront Pkw y  
 Bldg 12000  
 Wichita, KS 67206  
 ATTN: Phil Askey

**S9-25s-42w Hamilton,KS**

**Guffey Trust #1-9**

Job Ticket: 61712 **DST#: 3**

Test Start: 2015.09.02 @ 11:00:02

## GENERAL INFORMATION:

Formation: **Lower Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:30

Time Test Ended: 18:41:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

Interval: **5404.00 ft (KB) To 5432.00 ft (KB) (TVD)**

Total Depth: 5432.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3595.00 ft (KB)

3582.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 8357**

**Inside**

Press@RunDepth: 712.61 psig @ 5405.00 ft (KB)

Start Date: 2015.09.02

End Date:

2015.09.02

Start Time: 11:00:02

End Time:

18:41:10

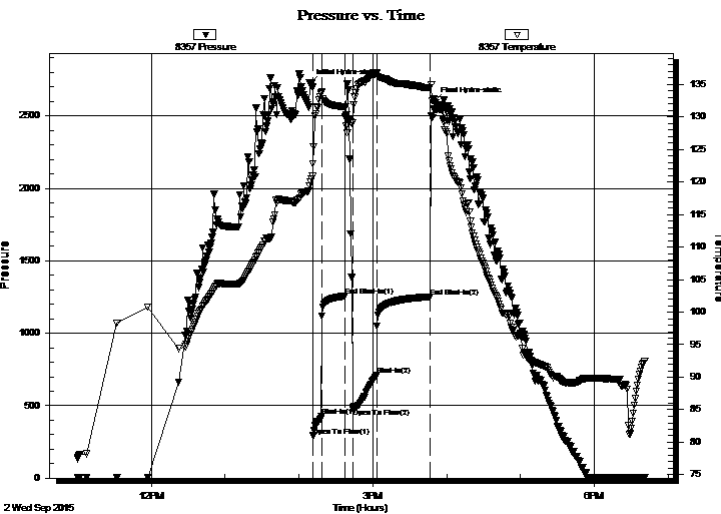
Capacity: 8000.00 psig

Last Calib.: 2015.09.02

Time On Btm: 2015.09.02 @ 14:08:30

Time Off Btm: 2015.09.02 @ 15:50:00

**TEST COMMENT:** 6- B.O.B. @ 2 min. Note; tool slowly slid approx 10' after opening with about 5' mud loss in nipple.  
 20- Surface return. Afterwards pulled tool up 10' to verify string still free, set back on bottom and let hydraulic reopen.  
 20- B.O.B. @ 3 min.  
 40- No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2725.66	119.43	Initial Hydro-static
3	291.81	122.80	Open To Flow (1)
10	426.85	133.71	Shut-In(1)
29	1257.99	131.55	End Shut-In(1)
35	479.25	129.09	Open To Flow (2)
55	712.61	136.69	Shut-In(2)
98	1251.95	134.46	End Shut-In(2)
102	2597.78	132.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
864.00	GMW 5g 5m 90w Could see & smell gas	10.56
248.00	MW 15m 85w	3.52
308.00	MW 50m 50w	4.37

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Co., Inc.

**S9-25s-42w Hamilton,KS**

1700 N Waterfront Pkwy  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**Guffey Trust #1-9**

Job Ticket: 61712

**DST#: 3**

Test Start: 2015.09.02 @ 11:00:02

## Tool Information

Drill Pipe:	Length: 5206.00 ft	Diameter: 3.82 inches	Volume: 73.80 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 74.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	5404.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.50 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			5377.50	
Shut In Tool	5.00			5382.50	
Hydraulic tool	5.00			5387.50	
Jars	5.00			5392.50	
Safety Joint	2.50			5395.00	
Packer	5.00			5400.00	27.50 Bottom Of Top Packer
Packer	4.00			5404.00	
Stubb	1.00			5405.00	
Recorder	0.00	8357	Inside	5405.00	
Recorder	0.00	6751	Outside	5405.00	
Perforations	24.00			5429.00	
Bullnose	3.00			5432.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.50**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Mull Drilling Co., Inc.

**S9-25s-42w Hamilton,KS**

1700 N Waterfront Pkw y  
Bldg 12000  
Wichita, KS 67206  
ATTN: Phil Askey

**Guffey Trust #1-9**

Job Ticket: 61712

**DST#: 3**

Test Start: 2015.09.02 @ 11:00:02

### 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:

36000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
864.00	GMW 5g 5m 90w Could see & smell gas	10.563
248.00	MW 15m 85w	3.516
308.00	MW 50m 50w	4.366

Total Length: 1420.00 ft      Total Volume: 18.445 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .150 @ 92 Degrees F = 36000 PPM

Serial #: 8357

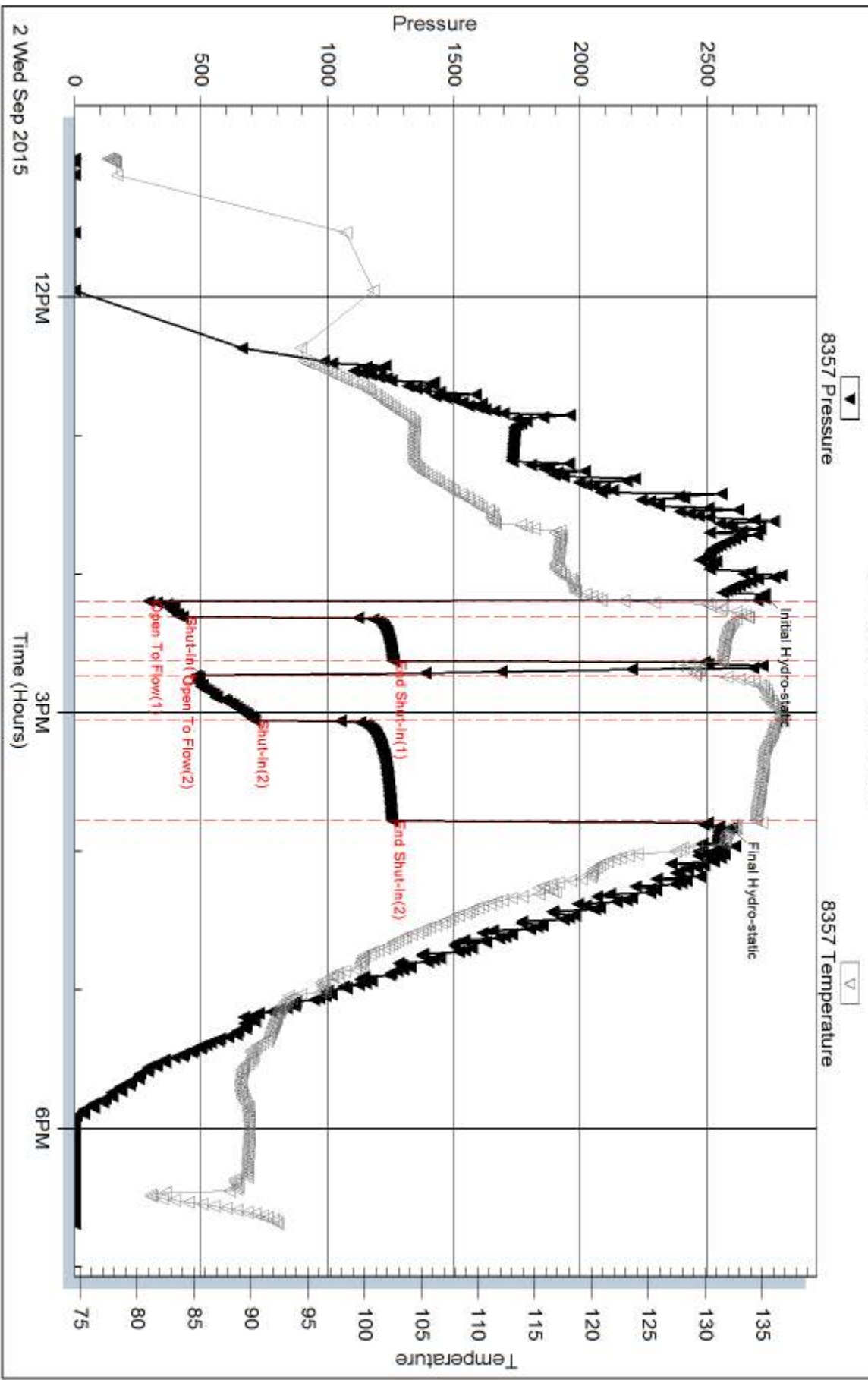
Inside

Mull Drilling Co., Inc.

Guffey Trust#1-9

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61712

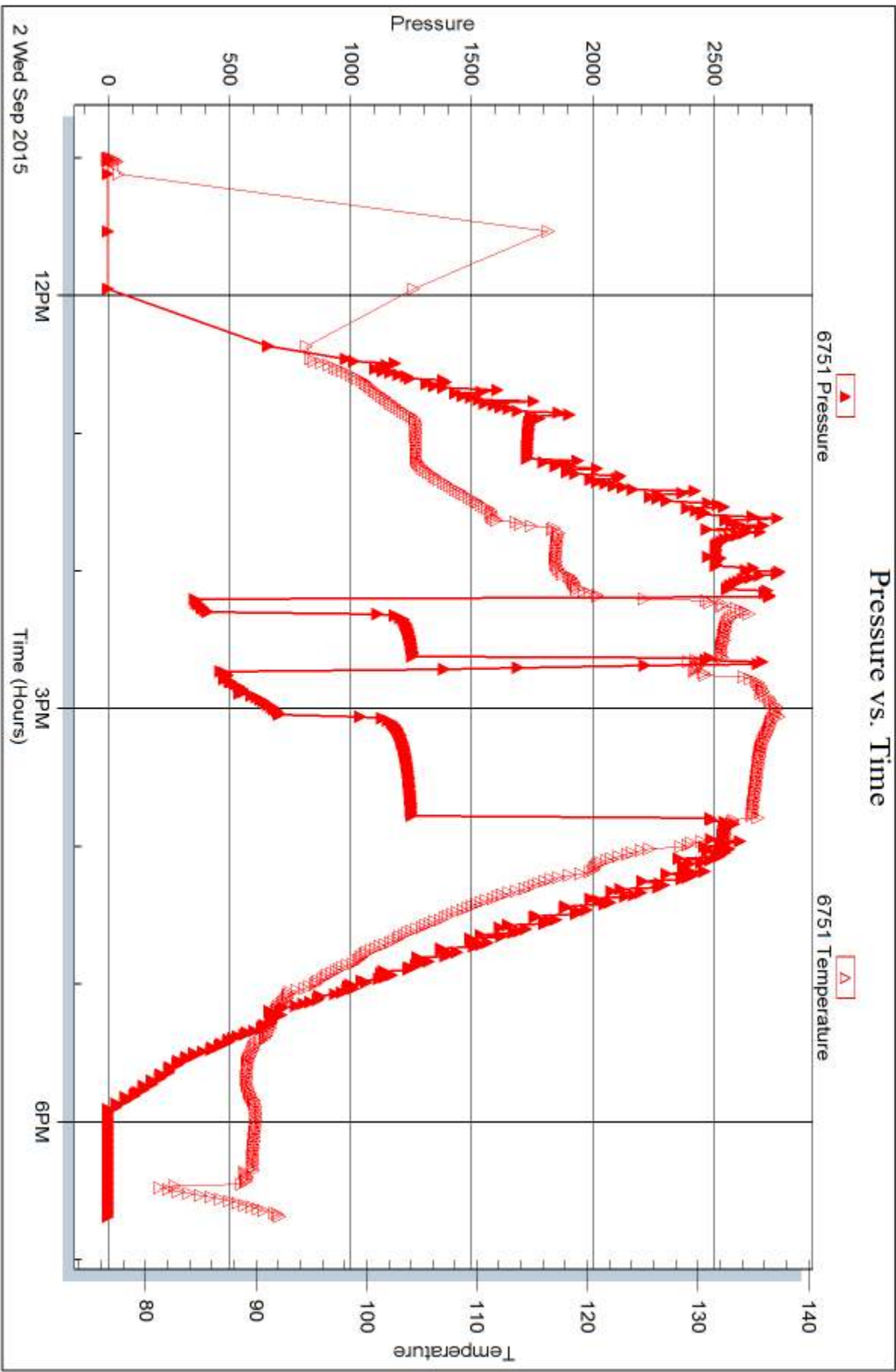
Printed: 2015.09.03 @ 14:34:53

Serial #: 6751

Outside Mall Drilling Co., Inc.

Guffey Trust#1-9

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61712

Printed: 2015.09.03 @ 14:34:54



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

61710

NO.

4/10

Well Name & No. Guffey Trust #1-9 Test No. 1 Date 8-30-15  
 Company Mull Drilling Co., Inc. Elevation 3595 KB 3582 GL  
 Address 1700 N. Waterfront Pkwy Bldg. 12000 Wichita, KS 67206  
 Co. Rep / Geo. Phil Askey Rig Duke #9  
 Location: Sec. 9 Twp. 25s Rge. 42w Co. Hamilton State KS

Interval Tested 5007 - 5080 Zone Tested Upper Marrow  
 Anchor Length 73 Drill Pipe Run 4829 Mud Wt. 9.2  
 Top Packer Depth 5003 Drill Collars Run 182 Vis 53  
 Bottom Packer Depth 5007 Wt. Pipe Run 0 WL 11.2  
 Total Depth 5080 Chlorides 6200 ppm System LCM 6"  
 Blow Description Surface blow throughout  
No return.  
No blow.  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>45</u>	Feet of <u>M with a couple oil spots</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 116 Gravity — API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2499</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>23:55</u>
(B) First Initial Flow <u>100</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:48</u>
(C) First Final Flow <u>219</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:33</u>
(D) Initial Shut-In <u>587</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>5:41</u>
(E) Second Initial Flow <u>116</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:59</u>
(F) Second Final Flow <u>443</u>	<input checked="" type="checkbox"/> Mileage <u>171</u>	Comments
(G) Final Shut-In <u>735</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2381</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</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>1546</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1546</u>	

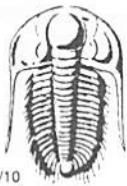
Approved By

Phil Askey

Our Representative

Chuck Smith

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

61711

NO.

4/10

Well Name & No. Guffey Trust #1-9 Test No. 2 Date 9-1-15  
 Company Mull Drilling Co., Inc. Elevation 3595 KB 3582 GL  
 Address 1700 N. Waterfront Pkwy. Bldg 12000 Wichita, KS 67206  
 Co. Rep / Geo. Phil Askey Rig Duke #9  
 Location: Sec. 9 Twp. 25s Rge. 42w Co. Hamilton State KS

Interval Tested 5302-5340 Zone Tested Mid Morrow Sand  
 Anchor Length 38 Drill Pipe Run 5114 Mud Wt. 9.1  
 Top Packer Depth 5298 Drill Collars Run 182 Vis 50  
 Bottom Packer Depth 5302 Wt. Pipe Run 0 WL 10.0  
 Total Depth 5340 Chlorides 6800 ppm System LCM 5<sup>th</sup>  
 Blow Description Surface blow throughout.  
No return.  
No blow.  
No return.

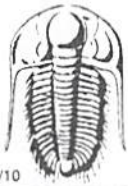
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>40</u>	Feet of <u>USOCM</u>	%gas	<u>1</u> %oil	%water	<u>99</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2702</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:30</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:32</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:16</u>
(D) Initial Shut-In <u>1266</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>9:24</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:34</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>171</u>	Comments
(G) Final Shut-In <u>810</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2555</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</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>1746</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1746</u>	

Approved By Phil Askey Our Representative Chuck Smith

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

61712

NO.

4/10

Well Name & No. Guffey Trust #1-9 Test No. 3 Date 9-2-15  
 Company Mull Drilling Co., Inc. Elevation 3595 KB 3582 GL  
 Address 1700 N. Waterfront Pkwy. Bldg. 12000 Wichita, KS 67206  
 Co. Rep / Geo. Phil Askey Rig Duke #9  
 Location: Sec. 9 Twp. 25S Rge. 42W Co. Hamilton State KS

Interval Tested 540<sup>4</sup>-5432 Zone Tested Lower Morrow Sand  
 Anchor Length 28 Drill Pipe Run 5206 Mud Wt. 9.2  
 Top Packer Depth 5400 Drill Collars Run 182 Vis 55  
 Bottom Packer Depth 540<sup>4</sup> Wt. Pipe Run 0 WL 9.2  
 Total Depth 5432 Chlorides 7800 ppm System LCM 4<sup>#</sup>

Blow Description B.O.B. @ 2min. Tool slowly slid 10' after opening with about a 5' mud loss in nipple  
Surface return. Afterwards pulled tool up 10' to verify string <sup>still</sup> free, set tool back on bottom  
B.O.B. @ 3min. and allowed hydraulics to open.  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>308</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
<u>248</u>	<u>MW</u>		<u>85</u>	<u>15</u>	
<u>864</u>	<u>GMW</u>	<u>Could see + smell gas</u>	<u>5</u>	<u>90</u>	<u>5</u>
	<u>30' cuttings in bottom collar, oil spots</u>				
	<u>in tool.</u>				

Rec Total 1420 BHT 135 Gravity — API RW .150 @ 92 °F Chlorides 36000 ppm

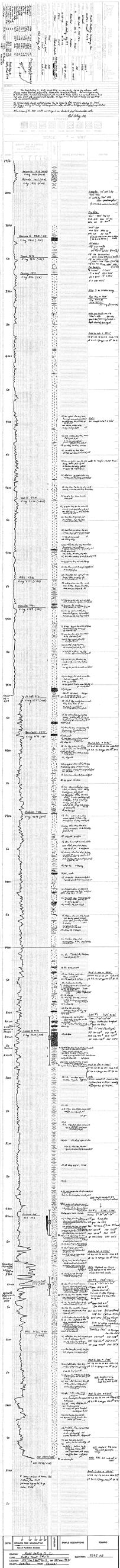
(A) Initial Hydrostatic	<u>2726</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>11:00</u>
(B) First Initial Flow	<u>292</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>11:00</u>
(C) First Final Flow	<u>427</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>14:09</u>
(D) Initial Shut-In	<u>1258</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>15:50</u>
(E) Second Initial Flow	<u>479</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>18:41</u>

(F) Second Final Flow	<u>712</u>	<input checked="" type="checkbox"/> Mileage	<u>171</u>	Comments	<u>2 motel receipts</u>
(G) Final Shut-In	<u>1252</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2599</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>6</u>	<input type="checkbox"/> Shale Packer		<input checked="" type="checkbox"/> Ruined Packer	<u>320</u>
Initial Shut-In	<u>20</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>20</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>320</u>
Final Shut-In	<u>40</u>	<input type="checkbox"/> Day Standby		Total	<u>2066</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1746</u>		

Approved By Phil Askey Our Representative Chuck Smith

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DATE	NO. OF FEET	DEPTH	REMARKS
...	...	...	...