



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1212774  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1212774

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Diasis 1-11
Doc ID	1212774

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated



ERICKSON WELLBITE GEOLOGY



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

Well Name: Dicks #1-11  
Location: W2 E12 W12 E12 Sec 11 T18 R35W  
License Number: 312/2014  
Spur Date: 3/12/2014  
Surface Coordinates: 26407 PNL & 18007 FEL  
Region: Ravenna County, KS  
Drilling Completed: 3/21/2014

Bottom Hole Coordinates:

Ground Elevation (ft): 3157  
Logged Interval (ft): 3440  
Formation:  
Type of Drilling Fluid: Chemical Mud

K.B. Elevation (ft): 3167  
Total Depth (ft): 4958  
Printed by: WELLOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Murfin Drilling Co., Inc.  
Address: 250 N Water, Suite 300  
Wichita, KS 67202

GEOLOGIST

Name: Clayton Erickson  
Company: Erickson Wellbite Geology  
Address: 402 Palmer Street  
P.O. Box 294  
Leonís, NE 68958

DSTs

DST #1 3015-3073; 30-60-30-60; Hydro: 1782-1726 FFP; 38-48 ISP; 1109 FFP; 49-57 FSP; 1865; Rec: 5' of 0.95%  
BHT: 118 F; F: 1 1/2" Bt; dead FF: dead FSI: dead  
DST #2 3092-3826; 30-60-60-60; Hydro: 1982-1743 FFP; 60-118 ISP; 1221 FFP; 128-212 FSP; 1206; Rec: 5' of 188'  
15% to 85% SW 93' 93% to 65% SW 30% SW; BHT: 118 F Grav: 26.8; RW: .16 @ 42F Chl: 95,000ppm; F: 2 1/2" ISL: dead FF:  
5 1/2" FSI: dead  
DST #3 4035-4166; 30-60-60-60; Hydro: 2036-1866 FFP; 60-117 ISP; 1327 FFP; 104-339 FSP; 1316; Rec: 500' oil  
spotted mud; BHT: 124 F; F: 5 1/2" Bt; dead FF: 5 1/2" FSI: dead  
DST #4 4150-4254; 30-60-30-60; Hydro: 2020-1862 FFP; 20-27 ISP; 1072 FFP; 30-33 FSP; 833; Rec: 5' mud; BHT:  
118; F: 12" Bt; dead FF: dead FSI: dead  
DST #5 4245-4285; 30-60-30-60; Hydro: 2010-2013 FFP; 60-339 ISP; 811 FFP; 323-477 FSP; 813; Rec: 42' oil 188'  
35% to 18% SW 55% SW 37' 25% to 25% SW 50% SW 37' 25% to 25% SW; BHT: 134 F Grav: 27.8; RW: .17 @ 61.1 F Chl:  
78,000ppm; F: BOB 7min Bt; dead FF: BOB 14min FSI: dead

COMMENTS

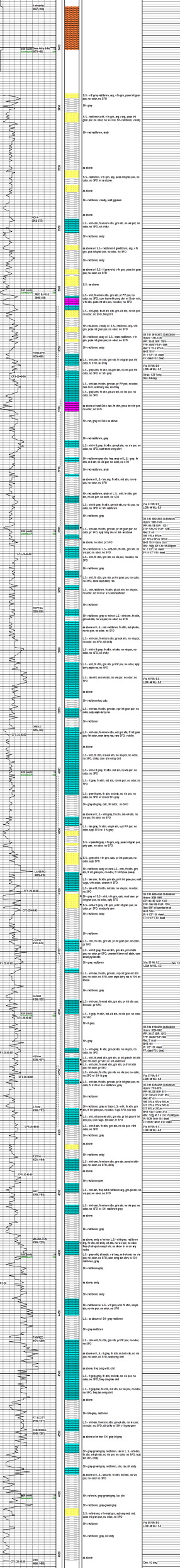
The loggers hit a bridge# @ 4610'

FORMATION TOPS

Log Tops	Sample tops
Anhydrite 3027(+120)	3027(+130)
Base Ashy 3060(+98)	3073(+95)
NEVA 3538(+37)	3542(-37)
RED EAGLE 3911(+43)	3906(-43)
FORAKER 3852(+80)	3855(-80)
TOPEKA 3876(-700)	3864(-690)
OREAD 3864(-787)	3864(-786)
LANSING 4065(+916)	4065(+910)
SNC 4388(+1179)	4390(+1183)
MARMATON 4388(+1221)	4399(+1221)
PAWNER 4466(+1299)	4471(+1304)
PT SCOTT 4536(+1389)	4538(+1371)
CHEROKEE 4546(+1370)	4548(+1361)
TD 4618(+1451)	4656(+1489)

ROCK TYPES	OTHER SYMBOLS
Clay shale	Dead
Gyp	INTERVAL
Ignre	Dot
Limest	
Mets	
Mist	
Salt	
Shale	
Shcol	
Shgt	
Shst	
Ss	
TB	

Oil Show	Spotted	Dead	Interval
Even	Quas		Dot





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300  
Wichita KS. 67202

ATTN: Clayton Erickson

### **Diasis #1-11**

#### **11-1s-35w Rawlins,KS**

Start Date: 2014.03.15 @ 14:00:00

End Date: 2014.03.16 @ 01:46:30

Job Ticket #: 56163                      DST #: 1

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

Printed: 2014.03.21 @ 17:40:37



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56163

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2014.03.15 @ 14:00:00

## GENERAL INFORMATION:

Formation: **Foraker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:48:00

Time Test Ended: 01:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 67

**Interval: 3615.00 ft (KB) To 3673.00 ft (KB) (TVD)**

Reference Elevations: 3167.00 ft (KB)

Total Depth: 3673.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6625 Outside**

Press@RunDepth: 57.24 psig @ 3651.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.15

End Date:

2014.03.16

Last Calib.: 2014.03.15

Start Time: 14:00:01

End Time:

01:46:30

Time On Btm: 2014.03.15 @ 20:47:00

Time Off Btm: 2014.03.15 @ 23:55:30

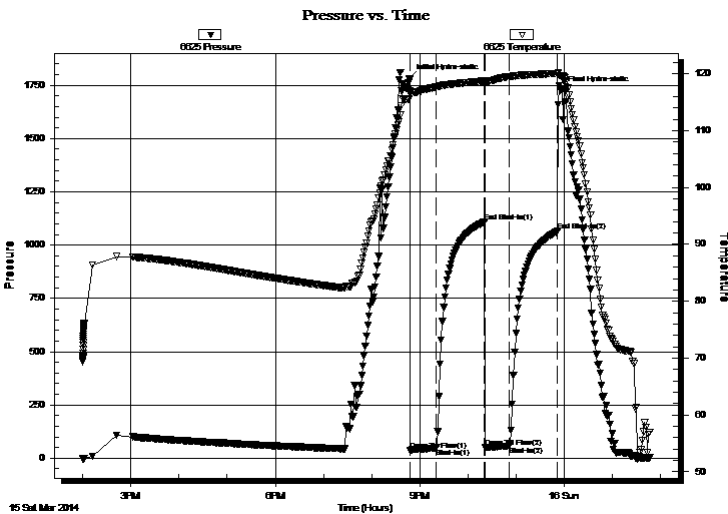
TEST COMMENT: I.F. - 30 - Weak surface blow built to 1 1/2"

I.S.I. - 60 - No blow back

F.F. - 30 - No blow

F.S.I. - 60 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.59	116.73	Initial Hydro-static
1	37.73	116.72	Open To Flow (1)
33	47.91	117.66	Shut-In(1)
94	1108.74	118.74	End Shut-In(1)
94	49.19	118.56	Open To Flow (2)
124	57.24	119.50	Shut-In(2)
185	1065.09	120.06	End Shut-In(2)
189	1726.70	119.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	S,O,S,M 5% OIL 95% MUD	0.02

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56163

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2014.03.15 @ 14:00:00

## Tool Information

Drill Pipe:	Length: 3052.00 ft	Diameter: 3.80 inches	Volume: 42.81 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	70000.00 lb
Drill Pipe Above KB:	15.00 ft			Final	70000.00 lb
Depth to Top Packer:	3615.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	78.00 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			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Packer	4.00			3610.00	20.00 Bottom Of Top Packer
Packer	5.00			3615.00	
Stubb	1.00			3616.00	
Perforations	2.00			3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	31.00			3650.00	
Change Over Sub	1.00			3651.00	
Recorder	0.00	6625	Outside	3651.00	
Recorder	0.00	8166	Inside	3651.00	
Perforations	18.00			3669.00	
Bullnose	4.00			3673.00	58.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56163

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2014.03.15 @ 14:00:00

### 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	S,O,S,M 5% OIL 95% MUD	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

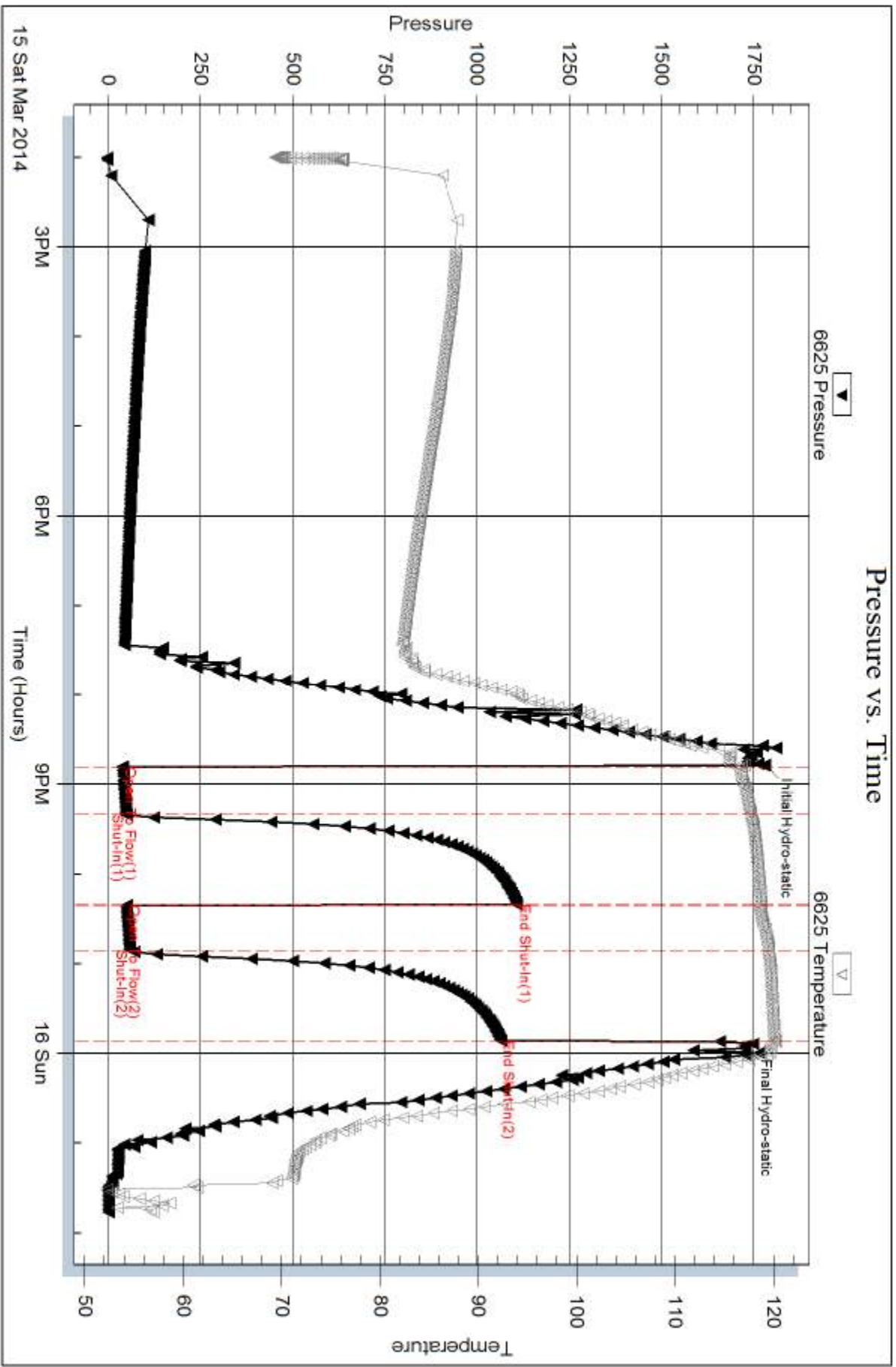
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



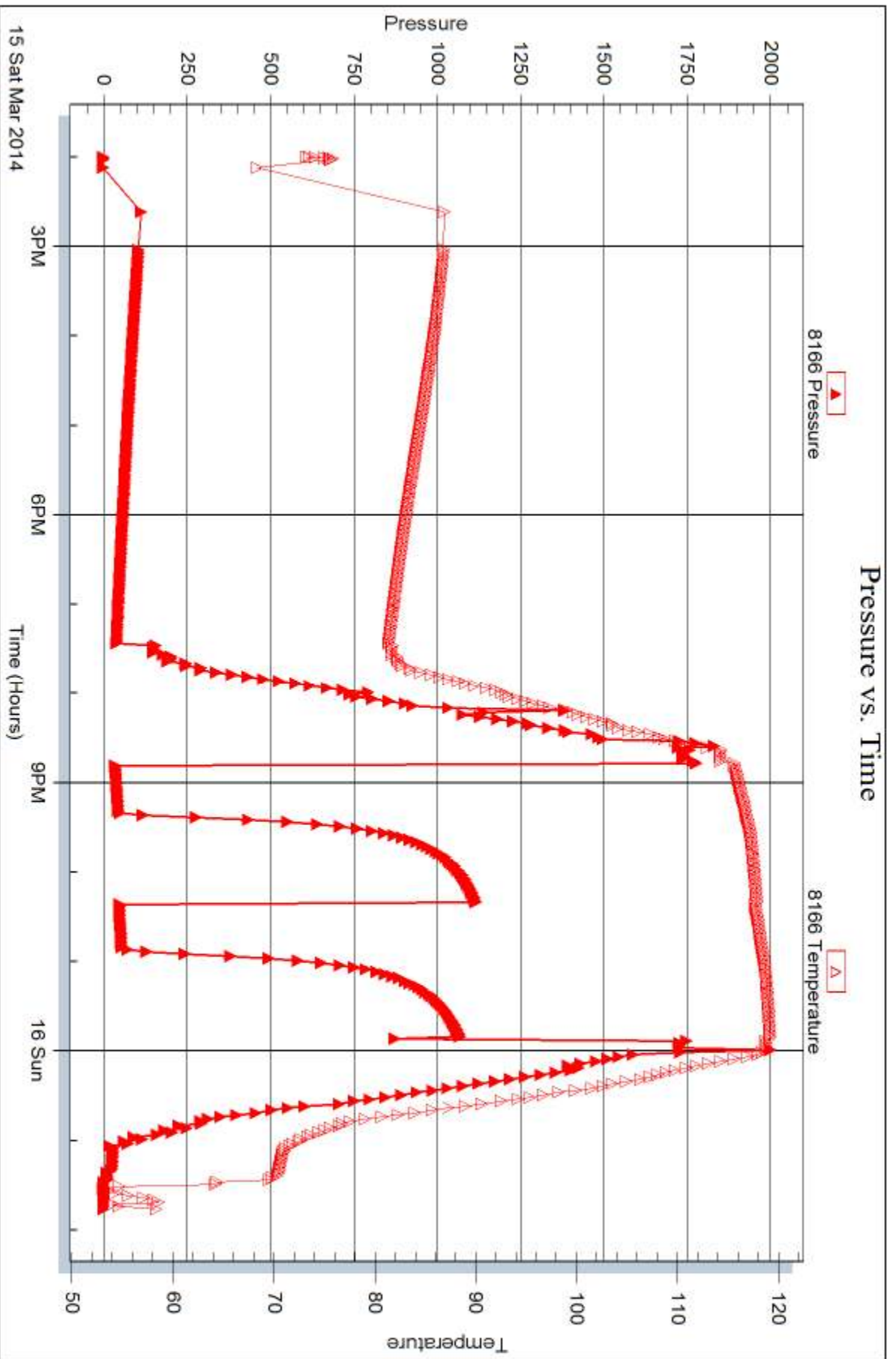
Serial #: 8166

Inside

Murfin Drilling Co

Dasis #1-11

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56163

Printed: 2014.03.21 @ 17:40:40



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300  
Wichita KS. 67202

ATTN: Clayton Erickson

### **Diasis #1-11**

#### **11-1s-35w Rawlins,KS**

Start Date: 2014.03.16 @ 14:30:00

End Date: 2014.03.16 @ 23:04:00

Job Ticket #: 56164                      DST #: 2

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

Printed: 2014.03.21 @ 17:38:15



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56164

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2014.03.16 @ 14:30:00

## GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:36:00

Time Test Ended: 23:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 3692.00 ft (KB) To 3820.00 ft (KB) (TVD)**

Reference Elevations: 3167.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8679**

**Inside**

Press@RunDepth: 211.82 psig @ 3790.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.16

End Date:

2014.03.16

Last Calib.:

2014.03.16

Start Time: 14:30:01

End Time:

23:04:00

Time On Btm:

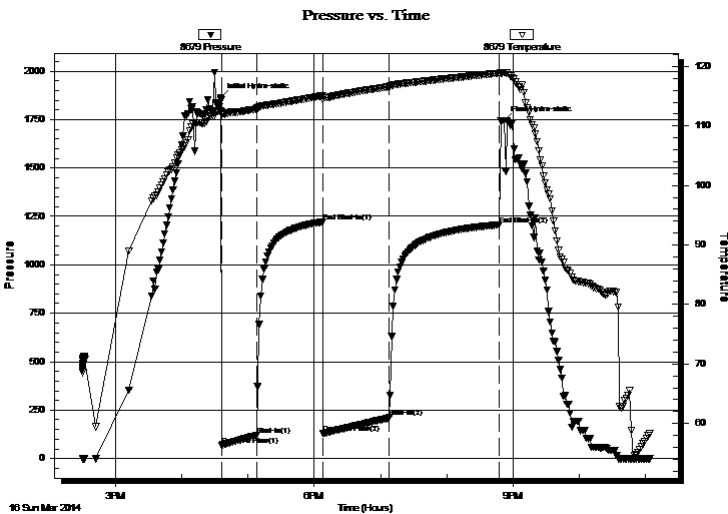
2014.03.16 @ 16:35:00

Time Off Btm:

2014.03.16 @ 20:52:00

**TEST COMMENT:** I.F. - 30 - Weak surface blow built to 2 1/2"  
I.S.I. - 60 - No blow back  
F.F. - 60 - Weak surface blow built to 5 1/2"  
F.S.I. - 90 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.50	112.46	Initial Hydro-static
1	68.92	111.91	Open To Flow (1)
33	118.45	112.86	Shut-In(1)
93	1221.21	115.06	End Shut-In(1)
93	128.88	114.43	Open To Flow (2)
153	211.82	116.62	Shut-In(2)
253	1206.10	118.87	End Shut-In(2)
257	1743.08	118.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	O,C,M,W, 10% OIL 30% MUD 60% WA	10.46
186.00	O,C,M, 15% OIL 85% MUD	0.91
5.00	CLEAN OIL 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

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56164

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2014.03.16 @ 14:30:00

## Tool Information

Drill Pipe:	Length: 3119.00 ft	Diameter: 3.80 inches	Volume: 43.75 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	74000.00 lb
Drill Pipe Above KB:	5.00 ft			Final	75000.00 lb
Depth to Top Packer:	3692.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	128.00 ft				
Tool Length:	148.00 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			3673.00	
Shut In Tool	5.00			3678.00	
Hydraulic tool	5.00			3683.00	
Packer	4.00			3687.00	20.00 Bottom Of Top Packer
Packer	5.00			3692.00	
Stubb	1.00			3693.00	
Perforations	2.00			3695.00	
Change Over Sub	1.00			3696.00	
Drill Pipe	93.00			3789.00	
Change Over Sub	1.00			3790.00	
Recorder	0.00	6625	Outside	3790.00	
Recorder	0.00	8679	Inside	3790.00	
Perforations	26.00			3816.00	
Bullnose	4.00			3820.00	128.00 Bottom Packers & Anchor

**Total Tool Length: 148.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56164

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2014.03.16 @ 14:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

95000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.08 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
93.00	O,C,M,W, 10% OIL 30% MUD 60% WATER	0.457
186.00	O,C,M, 15% OIL 85% MUD	0.915
5.00	CLEAN OIL 100%	0.025

Total Length: 284.00 ft Total Volume: 1.397 bbl

Num Fluid Samples: 0

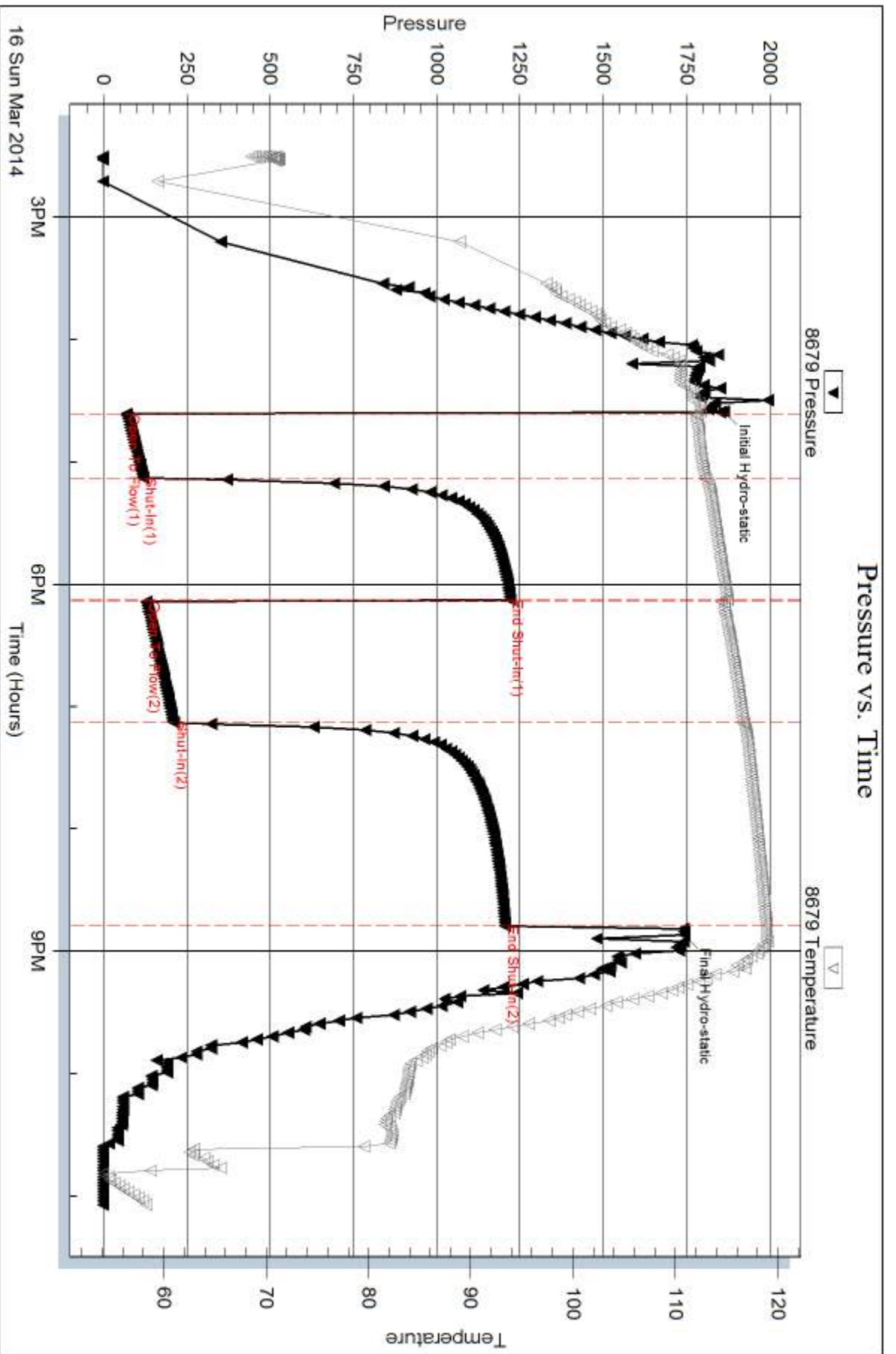
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = .16 OHMS @ 42 DEG. OIL GRAVITY = 26.8 @ 60 DEG.

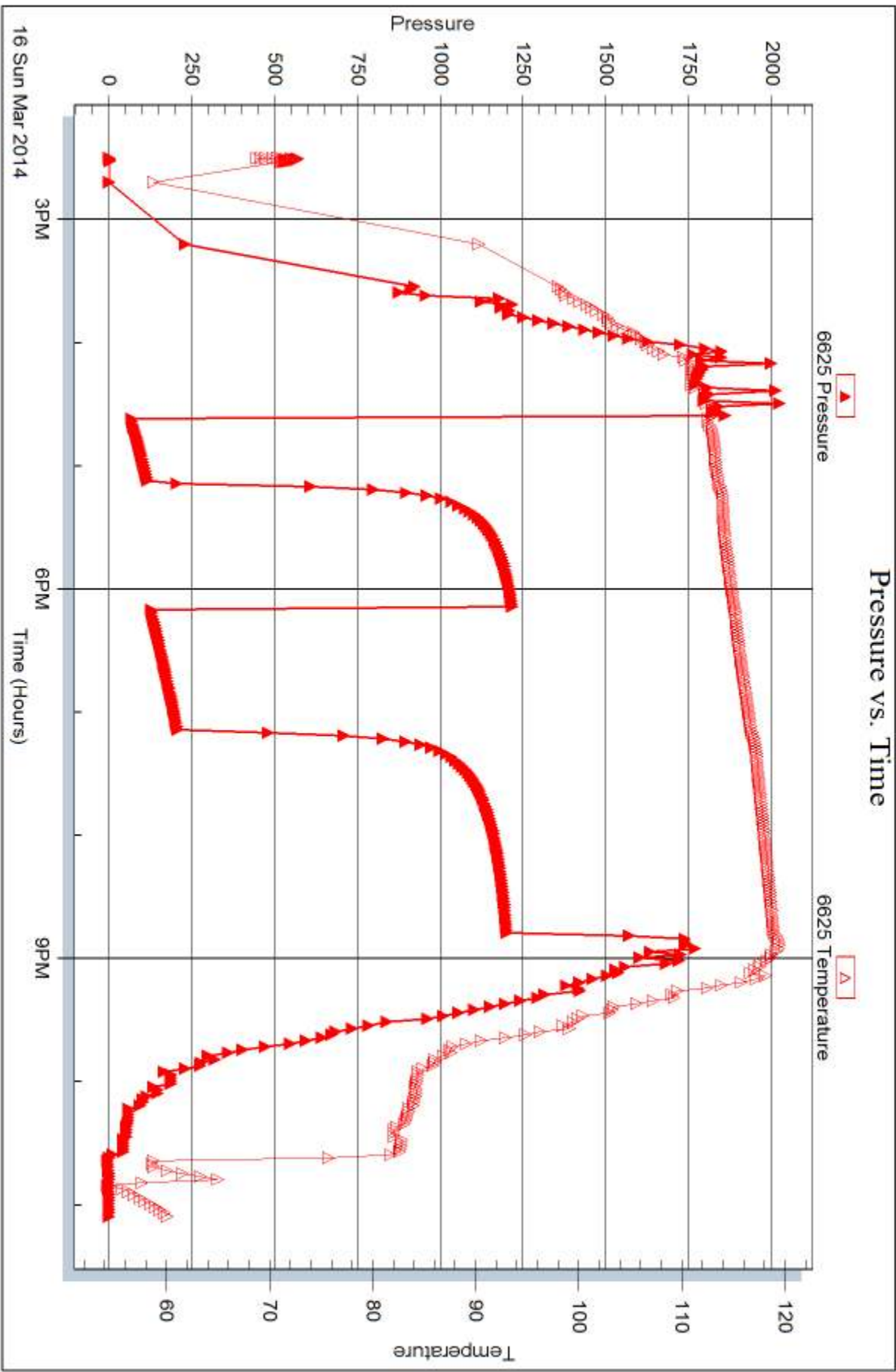


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300  
Wichita KS. 67202

ATTN: Clayton Erickson

### **Diasis #1-11**

#### **11-1s-35w Rawlins,KS**

Start Date: 2014.03.18 @ 02:25:00

End Date: 2014.03.18 @ 10:54:00

Job Ticket #: 56165                      DST #: 3

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

Printed: 2014.03.21 @ 17:37:23

Murfin Drilling Co  
11-1s-35w Rawlins,KS  
Diasis #1-11  
DST # 3  
Oread - LKC  
2014.03.18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56165

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2014.03.18 @ 02:25:00

## GENERAL INFORMATION:

Formation: **Oread - LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:59:00

Time Test Ended: 10:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 4005.00 ft (KB) To 4160.00 ft (KB) (TVD)**

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4160.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8679**

**Inside**

Press@RunDepth: 339.47 psig @ 4131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.18

End Date:

2014.03.18

Last Calib.:

2014.03.18

Start Time: 02:25:01

End Time:

10:54:00

Time On Btm:

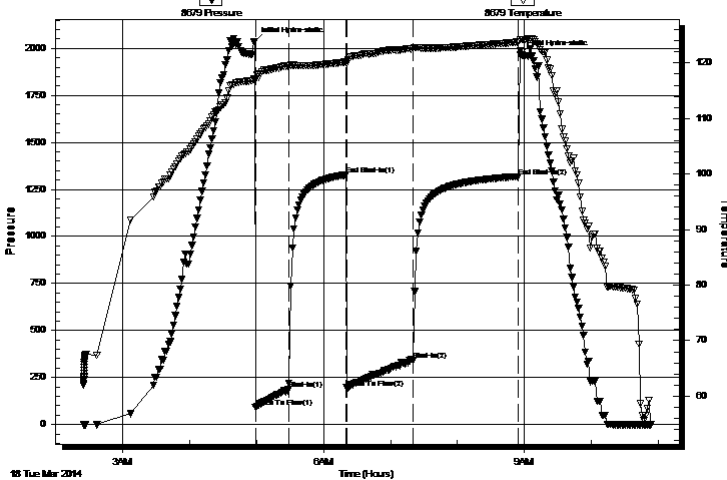
2014.03.18 @ 04:58:00

Time Off Btm:

2014.03.18 @ 08:56:30

**TEST COMMENT:** I.F. - 30 - Weak blow built to 5 1/2"  
I.S.I. - 60 - No blow back  
F.F. - 60 - Weak surface blow built to 5 1/2"  
F.S.I - 90 - No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2036.36	117.22	Initial Hydro-static
1	90.05	117.01	Open To Flow (1)
31	186.55	119.45	Shut-In(1)
82	1326.93	120.20	End Shut-In(1)
83	194.35	119.93	Open To Flow (2)
142	339.47	122.63	Shut-In(2)
237	1318.63	123.77	End Shut-In(2)
239	1966.02	124.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
505.00	S,O,S,M, (SCUM OF OIL) 99% MUD	2.48

\* 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

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56165

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2014.03.18 @ 02:25:00

## Tool Information

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	74000.00 lb
Drill Pipe Above KB:	12.00 ft			Final	74000.00 lb
Depth to Top Packer:	4005.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	155.00 ft				
Tool Length:	175.00 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			3986.00	
Shut In Tool	5.00			3991.00	
Hydraulic tool	5.00			3996.00	
Packer	4.00			4000.00	20.00 Bottom Of Top Packer
Packer	5.00			4005.00	
Stubb	1.00			4006.00	
Change Over Sub	1.00			4007.00	
Drill Pipe	123.00			4130.00	
Change Over Sub	1.00			4131.00	
Recorder	0.00	6625	Outside	4131.00	
Recorder	0.00	8679	Inside	4131.00	
Perforations	25.00			4156.00	
Bullnose	4.00			4160.00	155.00 Bottom Packers & Anchor

**Total Tool Length: 175.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56165

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2014.03.18 @ 02:25:00

### 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: 49.00 sec/qt

Cushion Volume: bbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
505.00	S,O,S,M, (SCUM OF OIL) 99% MUD	2.484

Total Length: 505.00 ft      Total Volume: 2.484 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

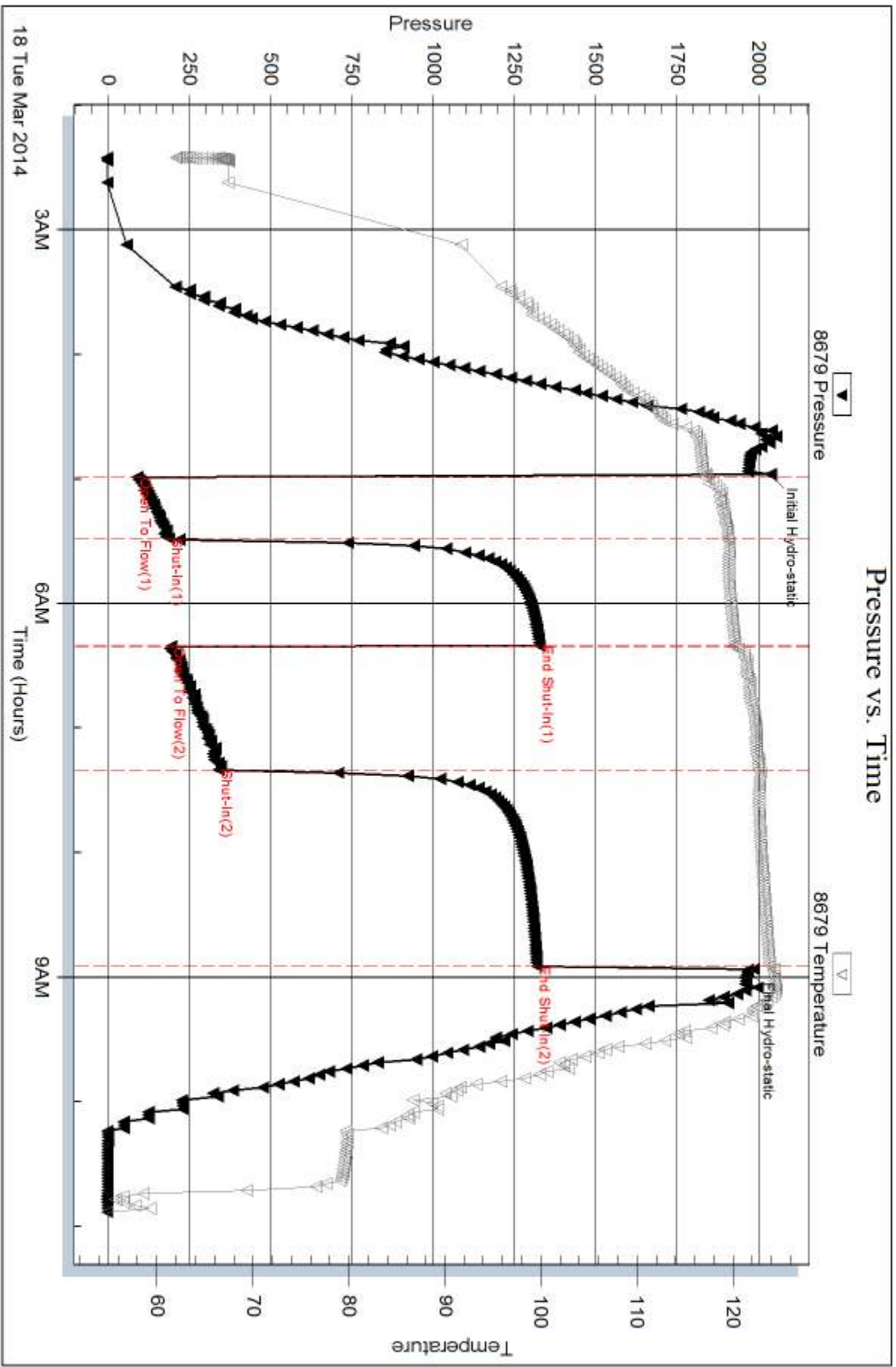
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



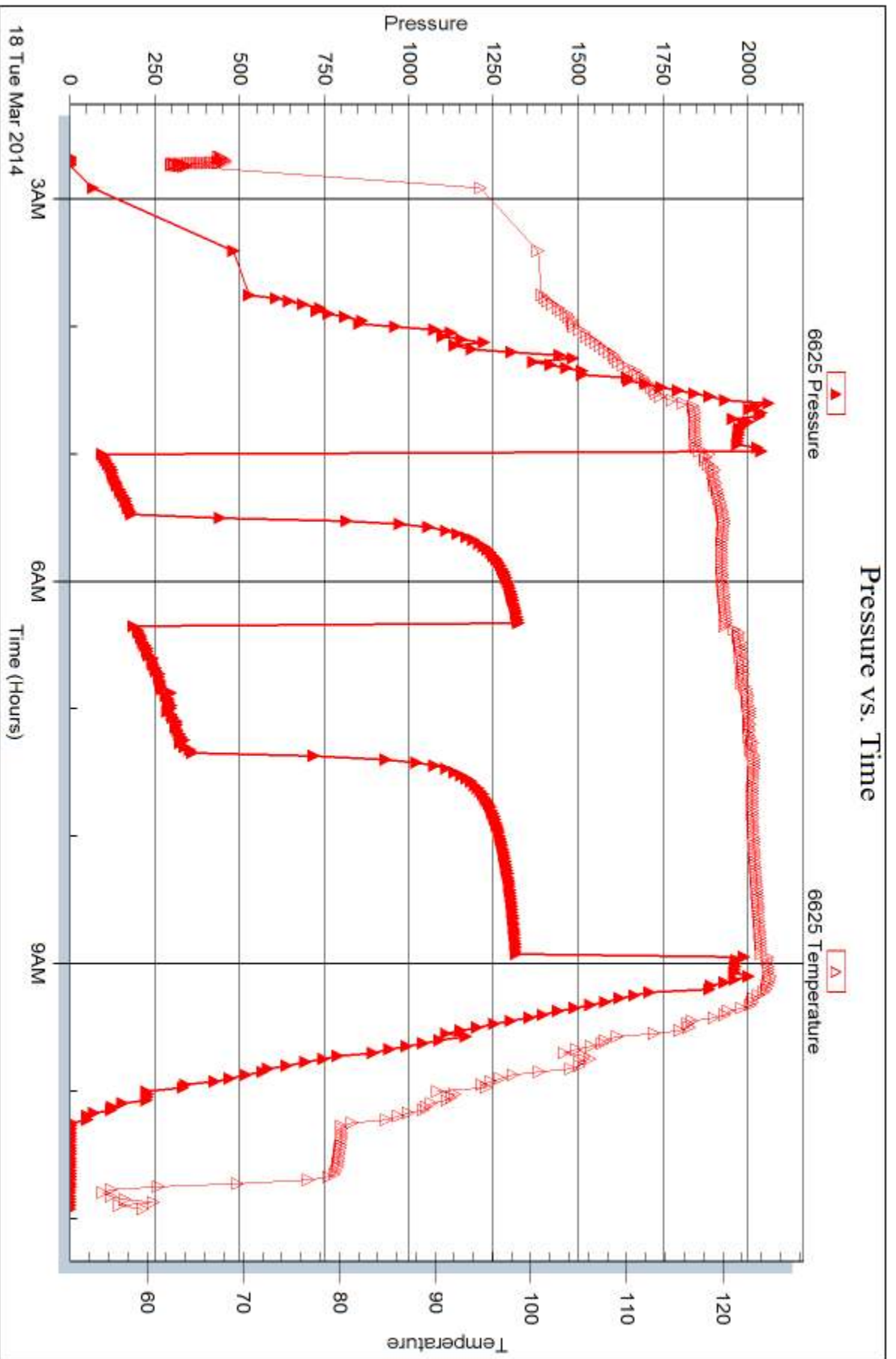


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56165

Printed: 2014.03.21 @ 17:37:25



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300  
Wichita KS. 67202

ATTN: Clayton Erickson

### **Diasis #1-11**

#### **11-1s-35w Rawlins,KS**

Start Date: 2014.03.19 @ 06:20:00

End Date: 2014.03.19 @ 13:06:30

Job Ticket #: 56166                      DST #: 4

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

Printed: 2014.03.21 @ 17:36:41



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56166

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 06:20:00

## GENERAL INFORMATION:

Formation: **LKC " G - H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:00

Time Test Ended: 13:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 4150.00 ft (KB) To 4254.00 ft (KB) (TVD)**

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4254.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8679**

**Inside**

Press@RunDepth: 33.39 psig @ 4153.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.19

End Date:

2014.03.19

Last Calib.:

2014.03.19

Start Time: 06:20:01

End Time:

13:06:30

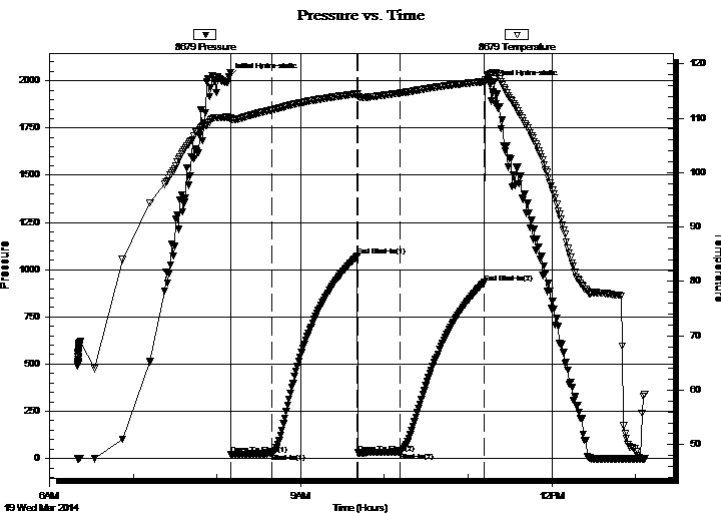
Time On Btm:

2014.03.19 @ 08:08:30

Time Off Btm:

2014.03.19 @ 11:16:00

**TEST COMMENT:** I.F. - 30 - 1Weak surface blow throughout  
I.S.I. - 60 - No blow back  
F.F. - 30 - No blow  
F.S.I. - No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.10	110.16	Initial Hydro-static
2	20.29	109.66	Open To Flow (1)
31	26.97	111.53	Shut-In(1)
92	1071.63	114.48	End Shut-In(1)
93	30.08	114.03	Open To Flow (2)
123	33.39	114.61	Shut-In(2)
183	932.60	116.74	End Shut-In(2)
188	1982.15	118.10	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

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56166

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 06:20:00

## Tool Information

Drill Pipe:	Length: 3593.00 ft	Diameter: 3.80 inches	Volume: 50.40 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4150.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	104.00 ft				
Tool Length:	124.00 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			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Packer	4.00			4145.00	20.00 Bottom Of Top Packer
Packer	5.00			4150.00	
Stubb	1.00			4151.00	
Perforations	2.00			4153.00	
Recorder	0.00	6625	Outside	4153.00	
Recorder	0.00	8679	Inside	4153.00	
Change Over Sub	1.00			4154.00	
Drill Pipe	95.00			4249.00	
Change Over Sub	1.00			4250.00	
Bullnose	4.00			4254.00	104.00 Bottom Packers & Anchor

**Total Tool Length: 124.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56166

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 06:20:00

## 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: 5.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 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

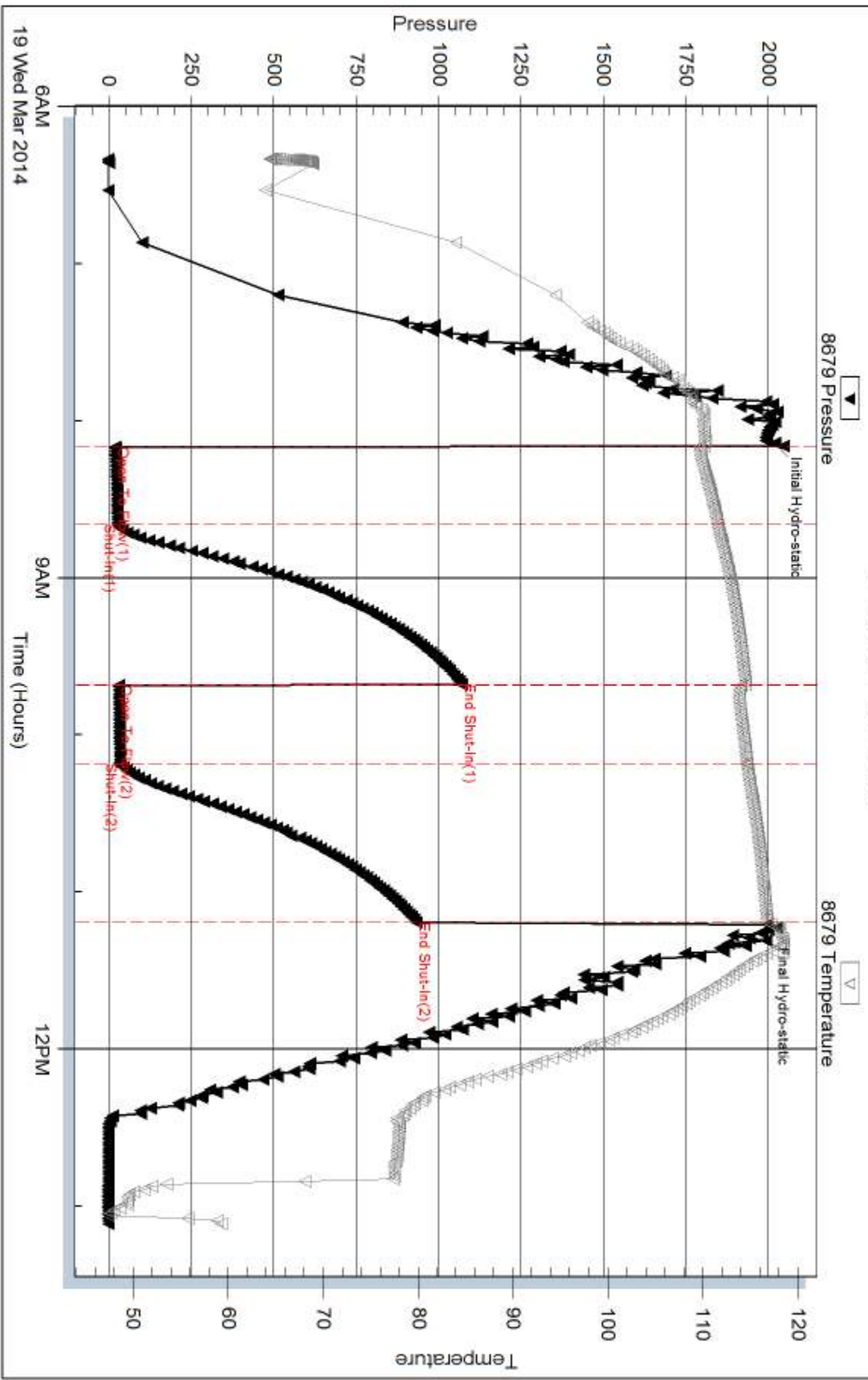
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



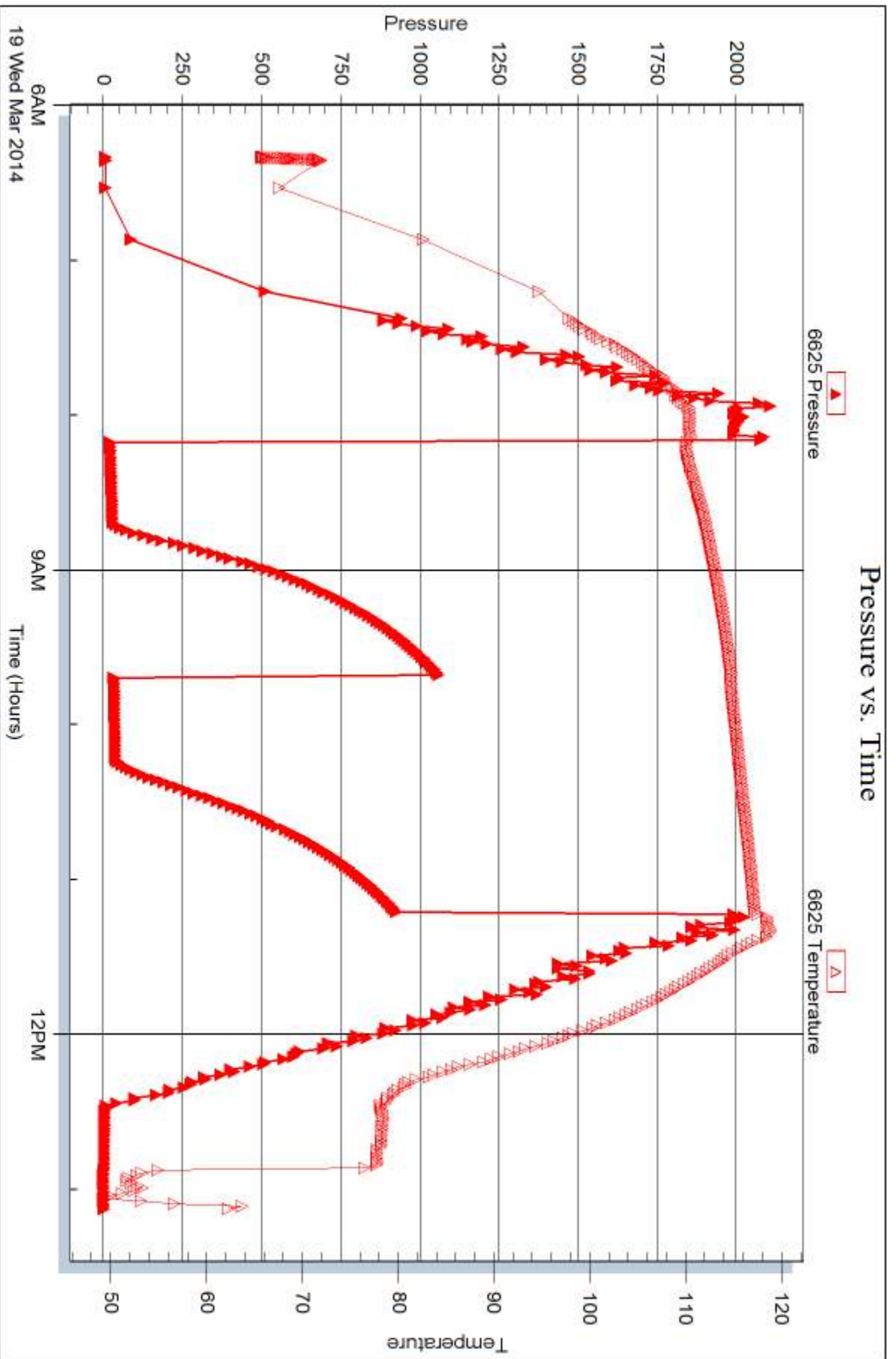


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56166

Printed: 2014.03.21 @ 17:36:43



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300  
Wichita KS. 67202

ATTN: Clayton Erickson

### **Diasis #1-11**

#### **11-1s-35w Rawlins,KS**

Start Date: 2014.03.19 @ 20:18:00

End Date: 2014.03.20 @ 05:38:30

Job Ticket #: 56167                      DST #: 5

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

Printed: 2014.03.21 @ 17:35:37

Murfin Drilling Co  
11-1s-35w Rawlins,KS  
Diasis #1-11  
DST # 5  
LKC "1-J"  
2014.03.19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56167

**DST#: 5**

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 20:18:00

## GENERAL INFORMATION:

Formation: **LKC "I - J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:30

Time Test Ended: 05:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 4245.00 ft (KB) To 4295.00 ft (KB) (TVD)**

Reference Elevations: 3167.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

3157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8679**

**Inside**

Press@RunDepth: 477.24 psig @ 4281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.19

End Date:

2014.03.20

Last Calib.:

2014.03.19

Start Time: 20:18:01

End Time:

05:38:30

Time On Btm:

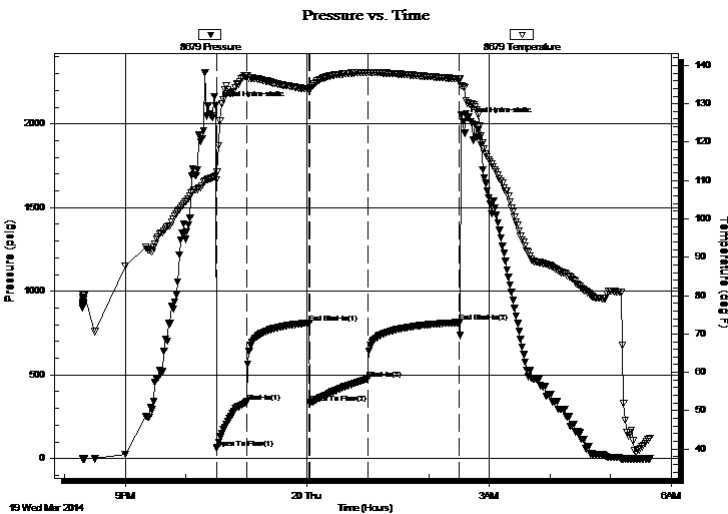
2014.03.19 @ 22:29:30

Time Off Btm:

2014.03.20 @ 02:34:30

**TEST COMMENT:** I.F. - 30 - BOB in 7 min  
I.S.I. - 60 - No blow back  
F.F. - 60 - Weak surface blow built to 5 1/2"  
F.S.I. - 90 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.54	111.17	Initial Hydro-static
1	60.37	110.12	Open To Flow (1)
31	338.87	137.31	Shut-In(1)
93	810.81	133.86	End Shut-In(1)
93	332.36	133.54	Open To Flow (2)
151	477.24	138.15	Shut-In(2)
241	813.46	136.53	End Shut-In(2)
245	2012.72	134.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	M,C,W, 20% MUD 80% WATER	1.83
372.00	H,O,H,W,C,M, 25% OIL 25% WATER 50% 3.52 JD	
186.00	W,C,H,O,C,M, 10% WATER 35% OIL 55% 2.61 JD	
42.00	CLEAN OIL 100%	0.59

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56167

**DST#: 5**

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 20:18:00

## Tool Information

Drill Pipe:	Length: 3688.00 ft	Diameter: 3.80 inches	Volume: 51.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	76000.00 lb
Drill Pipe Above KB:	21.00 ft			Final	78000.00 lb
Depth to Top Packer:	4245.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 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			4226.00	
Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00			4236.00	
Packer	4.00			4240.00	20.00 Bottom Of Top Packer
Packer	5.00			4245.00	
Stubb	1.00			4246.00	
Perforations	2.00			4248.00	
Change Over Sub	1.00			4249.00	
Drill Pipe	31.00			4280.00	
Change Over Sub	1.00			4281.00	
Recorder	0.00	6625	Outside	4281.00	
Recorder	0.00	8679	Inside	4281.00	
Perforations	10.00			4291.00	
Bullnose	4.00			4295.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co

**11-1s-35w Rawlins,KS**

250 N Water Ste 300  
Wichita KS. 67202

**Diasis #1-11**

Job Ticket: 56167

**DST#: 5**

ATTN: Clayton Erickson

Test Start: 2014.03.19 @ 20:18:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 4.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
372.00	M,C,W, 20% MUD 80% WATER	1.829
372.00	H,O,H,W,C,M, 25% OIL 25% WATER 50% M	3.524
186.00	W,C,H,O,C,M, 10% WATER 35% OIL 55% M	2.609
42.00	CLEAN OIL 100%	0.589

Total Length: 972.00 ft      Total Volume: 8.551 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

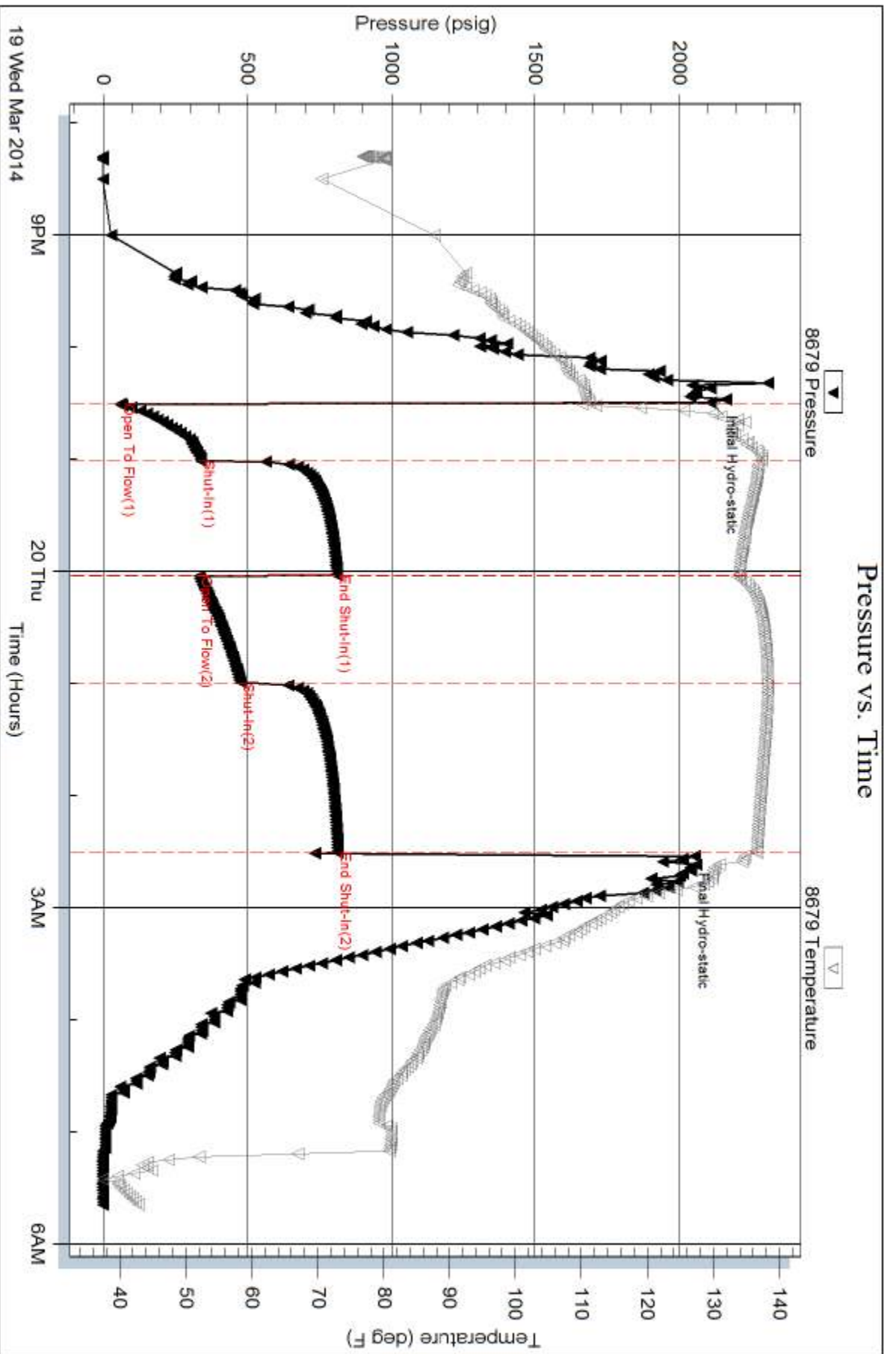
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = .17 OHMS @ 41.1 DEG  
CHLORIDES = 80,000 P.P.M.

OIL GRAVITY = 27.8 @ 60 DEG.

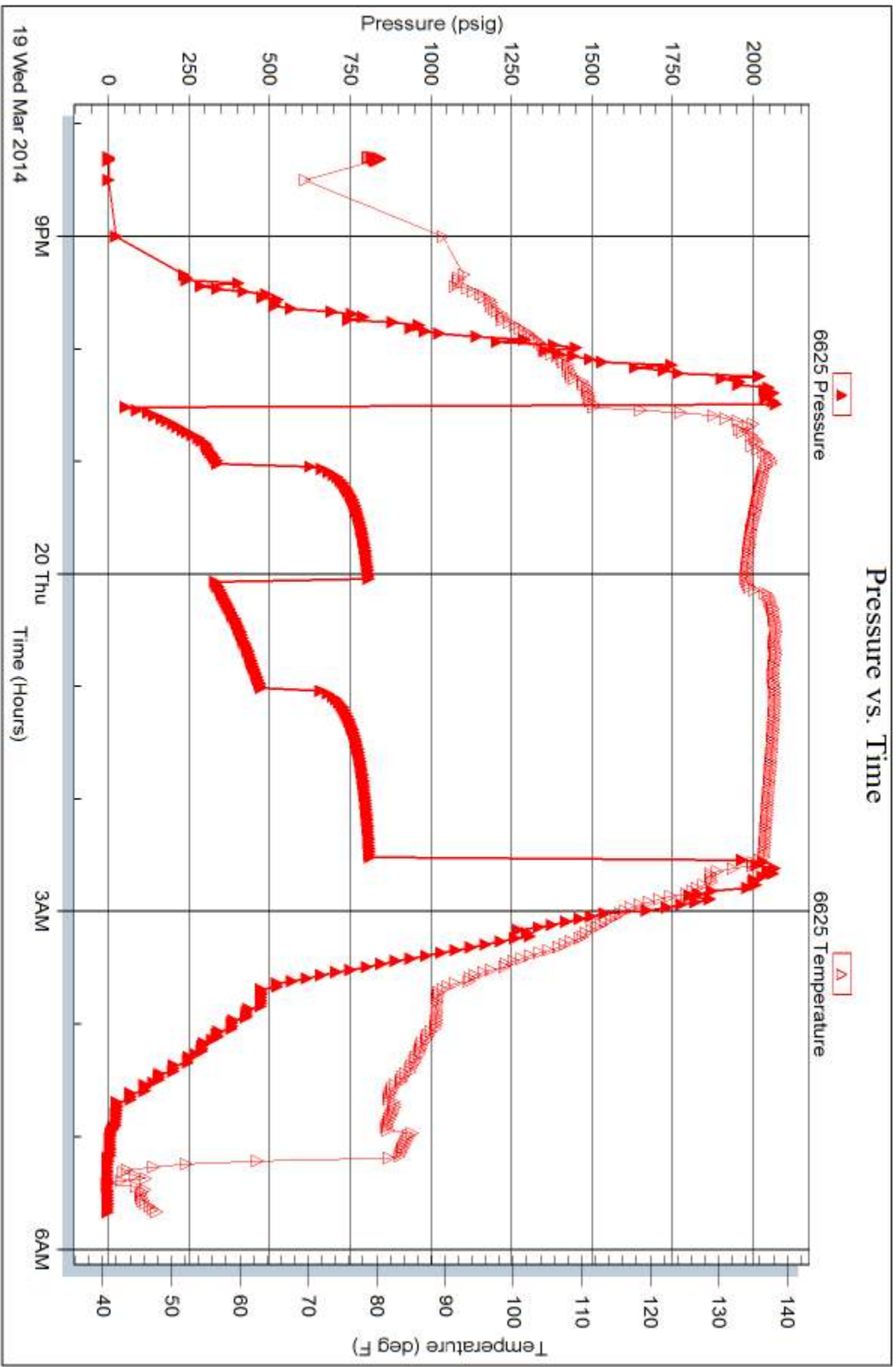


Serial #: 6625

Outside Murfin Drilling Co

Dasis #1-11

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 56167

Printed: 2014.03.21 @ 17:35:39





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56163

Well Name & No. Diasis #1-11 Test No. 1 Date 3-15-14  
 Company Martin Drilling Co. INC. Elevation 3167 KB 3157 GL  
 Address 250 N. Water Suite 300 Wichita KS. 67202  
 Co. Rep / Geo. Clayton Erickson/Scott Robinson Rig Martin Rig #14  
 Location: Sec. 11 Twp. 1 S. Rge. 35 W, Co. Rawlins State KS.

Interval Tested 3615 - 3673 Zone Tested Foraker  
 Anchor Length 58 Drill Pipe Run 3052 Mud Wt. 8.9  
 Top Packer Depth 3610 Drill Collars Run 558 Vis 59  
 Bottom Packer Depth 3615 Wt. Pipe Run \_\_\_\_\_ WL 5.2  
 Total Depth 3673 Chlorides 700 ppm System LCM 9.0

Blow Description I.F.-30-1/2 INT. Blow Built to (1 1/2 in 30 min.)  
I.S.I.-60- No B.B.  
F.F.-30- NO Blow  
F.S.I.-60- NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>5,05 M</u>		<u>5</u>		<u>95</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 119 Gravity — API RW — @ — ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1,782</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:55:00</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:06:00</u>
(C) First Final Flow <u>48</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:53:00</u>
(D) Initial Shut-In <u>1,109</u>	<input type="checkbox"/> Circ Sub <u>_____</u>	T-Pulled <u>23:53:00</u>
(E) Second Initial Flow <u>49</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2.75</u>	T-Out <u>01:46:00</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>102 / R.T.</u> 158.10	Comments <u>Staged for wind</u>
(G) Final Shut-In <u>1,065</u>	<input type="checkbox"/> Sampler <u>_____</u>	<u>(14:42) (19:30) 00</u>
(H) Final Hydrostatic <u>1,726</u>	<input type="checkbox"/> Straddle <u>_____</u>	<input type="checkbox"/> Ruined Shale Packer <u>_____</u>

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

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 1908.10

Total 1908.10  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Bill Homb

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56164

Well Name & No. Dias's Test No. 2 Date 3-16-14  
 Company Murfin Drilling Co, Inc. Elevation 3167 KB 3157 GL  
 Address 250 N. Water Suite 300 Wichita KS. 67202  
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14  
 Location: Sec. 11 Twp. 1 S. Rge. 35 W. Co. Rawlins State KS.

Interval Tested 3892-3820 Zone Tested Stotter  
 Anchor Length 128' Drill Pipe Run 3119 Mud Wt. 9.2  
 Top Packer Depth 3687 Drill Collars Run 558 Vis 51  
 Bottom Packer Depth 3692 Wt. Pipe Run — WL 6.1  
 Total Depth 3820 Chlorides 700 ppm System LCM 4

Blow Description I.F. - 30 - 1/2" INT. Blow Built to (2 1/2" in 30 min.)  
I.S.I - 60 - No B.B.  
E.F. - 60 - W.S. B started @ 3 min. Built to (5 1/2" in 60 min.)  
E.S.I - 90 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Clean oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>186</u>	<u>O.C.M</u>	<u>15</u>	<u>0</u>	<u>85</u>	<u>0</u>
<u>93</u>	<u><del>O.C.M</del> O.C.M, W</u>	<u>10</u>	<u>0</u>	<u>60</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 284 BHT 118 Gravity 26.8 API RW .16 @ 42 °F Chlorides 95,000 ppm  
 (A) Initial Hydrostatic 1,862  Test 1150 T-On Location 13:55:00  
 (B) First Initial Flow 69  Jars 250 T-Started 14:30:00  
 (C) First Final Flow 118  Safety Joint 75 T-Open 16:44:00  
 (D) Initial Shut-In 1,221  Circ Sub \_\_\_\_\_ T-Pulled 20:44:00  
 (E) Second Initial Flow 129  Hourly Standby \_\_\_\_\_ T-Out 23:10:00  
 (F) Second Final Flow 212  Mileage 102/R.T. 158.10 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,206  Sampler \_\_\_\_\_ "thank-you"  
 (H) Final Hydrostatic 1,743  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1633.10  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Sub Total 1633.10

Approved By \_\_\_\_\_ Our Representative Bob Horn

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56165**

4/10

Well Name & No. Diasis #1-11 Test No. 3 Date 3-17-14  
 Company Murfin Drilling Co. INC. Elevation 3167 KB 3157 GL  
 Address 250 N. Water Suite 300 Wichita KS. 67202  
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14  
 Location: Sec. 11 Twp. 1-S Rge. 35-W Co. Rawlins State KS.

Interval Tested 4005 - 4160 Zone Tested oread, Lansing A-D  
 Anchor Length 155' Drill Pipe Run 3439 Mud Wt. 9.2  
 Top Packer Depth 4600 Drill Collars Run 558 Vis 99  
 Bottom Packer Depth 4005 Wt. Pipe Run --- WL 6.0  
 Total Depth 4160 Chlorides 1,000 ppm System LCM 4.0

Blow Description I.F. - 30" 1/2" INT Blow Built to (5 1/2" in 30 min.)  
I.S.I - 60 - NO B.B.  
E.F. - 60 - W.S.B. Started @ 3 min. Built to (5 1/2" in 60 min.)  
E.S.I - 90 - NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>505'</u>	Feet of <u>S.O.S, M</u>				

Rec Total 505' BHT 124 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2,036</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>01:45:00</u>
(B) First Initial Flow <u>90</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:25:00</u>
(C) First Final Flow <u>187</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:02:00</u>
(D) Initial Shut-In <u>1,327</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>09:02:00</u>
(E) Second Initial Flow <u>194</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:55:00</u>
(F) Second Final Flow <u>339</u>	<input checked="" type="checkbox"/> Mileage <u>102 R.T.</u> 158.10	Comments <u>Thank-you</u>
(G) Final Shut-In <u>1,319</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1,966</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Total <u>1733.10</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	Sub Total <u>1733.10</u>

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56166**

Well Name & No. Diasis # 1-11 Test No. 4 Date 3-19-14  
 Company Murfin Drilling Co. INC, Elevation 3167 KB 3157 GL  
 Address 250 N. Water Suite 300 Wichita KS, 67202  
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14  
 Location: Sec. 11 Twp. 1-5 Rge. 35 - W. Co. Kan. State KS

Interval Tested 4150 - 4254 Zone Tested h.K.C. G+H  
 Anchor Length 104 Drill Pipe Run 3593 Mud Wt. 9.2  
 Top Packer Depth 4145 Drill Collars Run 558 Vis 53  
 Bottom Packer Depth 4150 Wt. Pipe Run — WL 5.2  
 Total Depth 4254 Chlorides 1000 ppm System LCM 4

Blow Description I.F. - 30 - 1/2" INT. Blow no Build  
F.S.I - 60 - No B.B.  
F.F. - 30 - No Blow  
F.S.I - 60 - No B.B.

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 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2,020  Test 1250 T-On Location 05:28:00  
 (B) First Initial Flow 20  Jars 250 T-Started 06:20:00  
 (C) First Final Flow 27  Safety Joint 75 T-Open 08:11:00  
 (D) Initial Shut-In 1072  Circ Sub — T-Pulled 11:11:00  
 (E) Second Initial Flow 330  Hourly Standby — T-Out 13:06:00  
 (F) Second Final Flow 33  Mileage 102 / R. + 158.10 Comments "Thank-you"  
 (G) Final Shut-In 933  Sampler —  
 (H) Final Hydrostatic 1,982  Straddle —  
 Shale Packer —  
 Shale Packer —  
 Extra Packer —  
 Extra Recorder —  
 Day Standby —  
 Accessibility —

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 1733.10  
 MP/DST Disc't —

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56167

Well Name & No. Dias.S. #1-11 Test No. 5 Date 3-19-14  
 Company Murfin Drilling Co. INC. Elevation 3167 KB 3157 GL  
 Address 250 N. Water suite 300 Wichita KS 67202  
 Co. Rep / Geo. Clayton Erickson / Scott Robinson Rig Murfin Rig #14  
 Location: Sec. 11 Twp. 1 - S. Rge. 35 - W. Co. Rawlins State Ks.

Interval Tested 4245 - 4295 Zone Tested L.K.C. "I - J"  
 Anchor Length 50' Drill Pipe Run 3688 Mud Wt. 9.1  
 Top Packer Depth 4240 Drill Collars Run 558 Vis 57  
 Bottom Packer Depth 4245 Wt. Pipe Run — WL 4.8  
 Total Depth 4295 Chlorides 1000 ppm System LCM 4

Blow Description I.F. - 30 - 1/2" INT. Blow Built to (B.O.B. in 7 min.)  
~~I.S.T. - 60 - No. B.B.~~  
~~I.F. - 60 - 1/2" INT. Blow Built to (B.O.B. in 14 min.)~~  
I.S.T. - 90 - NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>42'</u>	<u>clean oil</u>		<u>100</u>		
<u>186</u>	<u><del>W, C, H, O, C, M</del></u>	<u>35</u>	<u>10</u>	<u>55</u>	<u>55</u>
<u>377</u>	<u>H, O, H, W, C, M</u>	<u>25</u>	<u>25</u>	<u>50</u>	<u>50</u>
<u>372</u>	<u>M, C, W</u>		<u>80</u>	<u>20</u>	<u>20</u>

Rec Total 972' BHT 134 Gravity 27.8 API RW .17 @ 41.1 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic 2110  Test 1250 T-On Location 19:28:00  
 (B) First Initial Flow 60  Jars 250 T-Started 20:18:00  
 (C) First Final Flow 339  Safety Joint 75 T-Open 22:32:00  
 (D) Initial Shut-In 811  Circ Sub \_\_\_\_\_ T-Pulled 02:32:00  
 (E) Second Initial Flow 332  Hourly Standby \_\_\_\_\_ T-Out 05:40:00  
 (F) Second Final Flow 477  Mileage 102 RR. #2 Comments Loaded tools @  
 (G) Final Shut-In 813 316.20 10:30 on 3-21  
 (H) Final Hydrostatic 2013  Sampler \_\_\_\_\_ thank-you"  
 Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Final Flow 60  Day Standby 1d 4.75h Total 2691.20  
 Final Shut-In 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1891.20

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

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# INVOICE

*acct.*  
*Prod - LH*

PO Box 93999  
Southlake, TX 76092

Invoice Number: 141897

Invoice Date: Mar 12, 2014

Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	62580	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 12, 2014	4/11/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Diasis #1-11		
250.00	CEMENT MATERIALS	Class A Common	17.90	4,475.00
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
262.50	CEMENT SERVICE	Cubic Feet Charge	2.48	651.00
847.21	CEMENT SERVICE	Ton Mileage Charge	2.60	2,202.75
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
70.00	CEMENT SERVICE	Pump Truck Mileage	7.70	539.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
70.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	308.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

Subtotal	10,539.00
Sales Tax	399.03
Total Invoice Amount	10,938.03
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,938.03</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 3,688.65

ONLY IF PAID ON OR BEFORE

Apr 6, 2014

*OK*  
*NR*

*- 3688.65*  
*7249.38*

# ALLIED OIL & GAS SERVICES, LLC 062580

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Dakota, KS

DATE <u>3/12/14</u>	SEC. <u>11</u>	TWP. <u>7</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00</u>	JOB FINISH <u>4:30</u>
LEASE <u>Diagnosis</u>	WELL # <u>1-11</u>	LOCATION <u>RT wood N TO BB W 70</u>	COUNTY <u>Haskell</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>			RD <u>12 1/2 N W 120</u>				

CONTRACTOR Martin 14 OWNER Same

TYPE OF JOB Sucker  
HOLE SIZE 10 1/4 T.D. 268'  
CASING SIZE 8 1/2 DEPTH 268'  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH

CEMENT AMOUNT ORDERED 250 Com 379CS

PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15  
PERFS.  
DISPLACEMENT

COMMON 250 @ 17.20 4475.00  
POZMIX @  
GEL @  
CHLORIDE 9 @ 64.00 576.00  
ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER Alan Pym  
# 403-281 HELPER Davin Lyon  
BULK TRUCK  
# 810 DRIVER Juan M  
BULK TRUCK  
# DRIVER

HANDLING @ 2.40  
MILEAGE 262.5 @ 2.50 657.00  
2.00 70/mile 12.103 702 2202.50  
TOTAL 7904.25

**REMARKS:**

Run Casing Circulate, Mix 250 SK Com  
379CS, Displace Cement, Shoot in 2  
Cement did Circulate.

**SERVICE**

DEPTH OF JOB 268'  
PUMP TRUCK CHARGE 1512.25  
EXTRA FOOTAGE @  
MILEAGE 70 miles @ 7.20 539.00  
MANIFOLD @ 2.25  
City Vehicle 70 miles @ 4.40 308.00

CHARGE TO: Martin Drilling Co  
STREET  
CITY STATE ZIP

TOTAL 2634.25

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_ @ \_\_\_\_\_  
\_\_\_\_ @ \_\_\_\_\_  
\_\_\_\_ @ \_\_\_\_\_  
\_\_\_\_ @ \_\_\_\_\_  
\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) \_\_\_\_\_  
TOTAL CHARGES 10,539.00  
DISCOUNT 3,688.65 IF PAID IN 30 DAYS  
6,850.35 Net.

PRINTED NAME Greg Umuh  
SIGNATURE Greg Umuh



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
3/22/2014	25400

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC 103</u>
APPROVED <u>JR</u> <u>FH</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-11	Diasin	Rawlins	Company Rig	Oil	Development	Cement Top To ...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString - 4653 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				2	Each	40.00	80.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
276	Flocele				50	Lb(s)	2.50	125.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				10	Sack(s)	35.00	350.00T
285	CFR-1				141	Lb(s)	4.50	634.50T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				150	Lb(s)	2.50	375.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,814.43	Ton Miles	1.00	3,814.43
	Subtotal							21,963.93
	Sales Tax Rawlins County						7.90%	1,125.71
<b>We Appreciate Your Business!</b>						<b>Total</b>		\$23,089.64





Services, Inc.

CHARGE TO  
New Fin Dig Co.  
ADDRESS

CITY, STATE, ZIP CODE

TICKET 25400

PAGE 1 OF 2

SERVICES LOCATIONS  
1. Hopkins WELL/PROJECT NO. 1-11 LEASE Diasin COUNTY/PARISH Rawlins STATE KS DATE 3-22-14 OWNER  
2. Ness City, KS CONTRACTOR Co Ris RIG NAME/NO. #14 SHIPPED VIA CT DELIVERED TO New Fin Dig Co ORDER NO.  
3. WELL TYPE Oil WELL CATEGORY Oilfield JOB PURPOSE Cement top to Bottom LS. WELL PERMIT NO. WELL LOCATION  
4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE #113	150	mi				600	900.00
579					Ramp Change - cut top to Bottom	100				4653	14	2000.00
221					Liquid KCL	4	bar				8500	100.00
281					Mud Flush	500	gal				125	625.00
290					D-Air	5	gal				400	210.00
403					Cement Baskets	3	bar			5 1/2	in	300.00
406					Latex Drain Plug & Barrel	1	bar			5 1/2	in	275.00
407					Insert Head Shoe by ARB - RLL	1	bar			5 1/2	in	375.00
409					Turbosizers	15	bar			5 1/2	in	900.00
413					Rots w/ all Sockets	2	bar			5 1/2	in	700.00
419					Ratings Head Rental	1	bar			5 1/2	in	200.00

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
DATE SIGNED 3-22-14 TIME SIGNED 0030  
X [Signature]  P.M.  A.M.

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

SURVEY		AGREE	UN-DECIDED	DIS-AGREE	FACE TOTAL	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					7015.00	
WE UNDERSTOOD AND MET YOUR NEEDS?					14948.93	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					21963.93	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					1125.71	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			23,089.64	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
SWIFT OPERATOR [Signature] APPROVAL  
Thank You!



Switzer, Inc.

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

TICKET CONTINUATION

TICKET No. 25420

CUSTOMER  
Mustafa Dtg Co.

WELL  
7-11 Diansin

DATE  
3-22-14

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY				UNIT PRICE	AMOUNT
		LOG	ACCT	DF			QTY	UM	QTY	UM		
295		2				Standard Cement	200	SKS	18200	lbs	1452	2900.00
296		2				Fluxco 1/4" SK	50	lbs			250	125.00
283		2				Salt	1200	lbs			20	240.00
284		2				Calbasal	990	lbs	10	SKS	35.00	350.00
285		2				CFR-1 3/4"	191	lbs			4.50	639.50
330		2				Sand Cement	300	SKS	29178	lbs	1850	5550.00
296		2				Fluxco 1/2" SK	150	lbs			2.50	375.00
581		2				Service Charge Cement					200	1000.00
582	583	2				mileage change TOTAL WEIGHT 50859 lbs LOADED MILES 750 CUBIC FEET 500 SKS TON MILES 3814.945					100	3814.945
CONTINUATION TOTAL												14948.93

JOB LOG

SWIFT Services, Inc.

DATE 3-22-14 PAGE NO. 1

CUSTOMER *Martin Drilling Co.*

WELL NO. 1-11

LEASE *Diasin*

JOB TYPE *LS*  
*Comcat Top & Bottom*

TICKET NO. 25400

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0015							704656
	0120							On loca from - F.E. Rig LD-RH Start 5 1/2" casing to 4653 Insert Float Shoe w/ Auto-Fill L.D. Baffle - SJ-21' = 4632 = 110 1/4 BBI 2-5' Roto Scratchers Cent. 1 through 13 - 34-44' Cut Baskets # 11-35-45 Rn ends Bnk cir # 56 ft. Drop Pill up ball Fin run casing
	0400							Start circ / Rotate Casing Plug RH-30SKS SMD MH-20SKS SMD
	0500		9/16					
		5	12				400	Pump 570 gel fluid flush
		5 1/2	20				400	Pump 20 BBI KCL flush
		5	140				400	Start 250 SKS SMD cut
		4	50				300	Start 200 SKS EA-2 cut
							400	Fin cut - Wash out pump & lines
								Drop L.D. Plug
		9 1/2					300	Start Displ - 1st tank KCL wtr.
		9 1/2	15				300	Continue Displ
		9 1/2	55				400	Caught lift
		8	75				700	slow rate
		7	80				800	slow rate
		6	100				1050	slow rate - <u>cut circulating</u>
			110				1350	Press @ plug down
	0630		110 1/4				1800	Plug Down - Hold - Release & Hold
								Job Complete
								Washup & Reckup
								25 SKS SMD cut circ top it
								<i>Pauls</i>
								<i>Alan, Tom, Craig &amp; Jared</i>

Diasis #1-11  
 Daily Drilling Report  
 Page Two

3/19/14 Depth 4254'. Cut 94'. DT: None. CT: 19½ hrs, DST#3 was shut down f/11:00AM-6:00PM for high winds. Dev.: None. **LKC G:** Ls-wht-crm, fn-med xtln, grn stn, pr int xtln por, fn odor, pr SFO. **LKC H:** Ls-wht, fn-med xtln, grn stn, pr int gran-fr int xtln por, fnt odor, pr SFO w/sh-red/brn. Ls-wht-crm, fn-med xtln, grn stn, pr-fr int xtln por, fnt odor, pr SFO. **DST #4 4150-4254(LKC G-H):**

3/20/14 Depth 4295'. Cut 41'. DT: None. CT: 22 hrs. Dev.: None. **DST #4 4150-4254(LKC G-H):** 30-60-30-60. IF: ½" blw, no build. FF: no blw. Rec.: 5'M. HP: 2020-1982. FP: 20/27, 30/33. SIP: 1072-933. BHT: 117°. **LKC I:** Ls-wht-tan, fn xtln, grn stn, pr-fr int gran por, no odor, fr SFO w/Sh- red/brwn, grey. **LKC J:** LS-wht, fn xtln, grn stn, fr int gran por, no odor, fr-gd SFO, low rep. Ls-wht, micro-med xtln, grn stn, pr int gran-fr int xtln por, com vugs, fnt odor, fr SFO. **DST #5 4245-4295 (LKC I-J):** 30-60-60-90. IF: ½" blw built to BOB in 7mins. FF: ½" blw built to BOB in 14mins. Rec.: 42'CO, 186'WCHO CM (10%W, 35%O, 55%M), 372'HOHWCM (25%O, 25%W, 50%M), 372'MCW (20%M, 80%W). HP: 2110-2013. FP: 60/339, 332/477. SIP: 811-813. BHT: 137°.

3/21/14 Depth 4615'. Cut 320'. DT: None. CT: 3½ hrs. Dev.: None. Plan to TD @ 4660'

3/22/14 RTD: 4656'. Cut 41'. DT: None. CT: 24hrs. Dev.: ½° @ 4656' TD @ 8:15PM 3/21. Pioneer logged 12:30PM – 5:30PM 3/21. Log hit bridge @ 4618'. LTD 4618'. Ran 111jts of 15.5# 5 ½" prod csg, set @ 4652'. Swift cmt w/250sxs SMD, 200sxs EA-2. PD @ 6:30AM 3/22, 30sxs RH, 20sxs MH. Cmt circ.

3/23/14 RTD: 4656'. CT: 2¼ hrs. RR @ 10:30AM FINAL REPORT.

MDCI Diasis #1-11 2640' FNL 1800' FEL Sec. 11-T1S-R35W 3167' KB							Empire Drilling Bennet Sis #1 C NE SE Sec. 11-T1S-R35W 3139' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3036	+131	+5	3037	+130	+4	3013	+126
B/Anhydrite	3072	+95	+8	3068	+99	+12	3052	+87
Neva	3542	-375	+9	3537	-370	+14	3523	-384
Red Eagle	3606	-439	+10	3600	-433	+16	3588	-449
Foraker	3654	-487	+12	3652	-485	+14	3638	-499
Topeka	3866	-699	+8	3877	-710	-3	3846	-707
Oread	3965	-798	+9	3963	-796	+11	3946	-807
Lansing	4085	-918	+12	4083	-916	+14	4069	-930
Stark	4294	-1127	+19	4294	-1127	+19	4285	-1146
BKC	4350	-1183	+11	4344	-1177	+17	4333	-1194
Cherokee	4548	-1493	----	4546	-1379	----	DNR	
RTD	4656						4341	-1202
LTD				4618				