



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1102946
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: _____



1102946

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			
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)*

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 03, 2012

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-171-20899-00-00
Kohrs 1-9
SE/4 Sec.09-16S-32W
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Leon Rodak

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

LEASE	Kohls #1-9	ELEVATIONS	KB 3007'
FIELD	Widicut	DF	GL 2996'
LOCATION	2270' fsl & 1850' fel	STATE	Kansas
SEC	9	TWSP	16 s
RGE	32 w	COMPT	8/20/2012
COUNTY	Scott	CONTRACTOR	Murfhin Drilling Co Inc Rig 21
SPUD	8/9/2012	CONDUCTOR	CASING
RTD	4/7/80	LTD	4/7/81
MUD UP	3/20/8	TYPE MUD	Chemical
SAMPLES SAVED FROM	3620 TO TD	PRODUCTION	none
DRILLING TIME KEPT FROM	3620 TO TD		
SAMPLES EXAMINED FROM	3620 TO TD		
GEOLOGICAL SUPERVISION FROM 3620			
GEOLOGIST ON WELL Robert D. Hendrix			
FORMATION TOPS			
Base Anhydrite	2404 (-582)	2401 (-606)	
Topeka	3725 (-718)	3725 (-718)	
Heebner Shale	3960 (-953)	3960 (-953)	
Lansing	4004 (-997)	4004 (-997)	
Stark Shale	4261 (-1254)	4261 (-1254)	
Pawnee	4477 (-1470)	4477 (-1470)	
Ft Scott	4518 (-1511)	4518 (-1511)	
Cherokee	4679 (-1672)	4679 (-1672)	
Mississippi	4679 (-1672)	4679 (-1672)	

REMARKS: All shows were tested with mixed results, the decision was made to plug and abandon this test. From the Stark Shale to RTD the log tops were applied and adjusted to for clarity of show orientation to the e-log.

DEPTH	LITHOLOGY	Test & Show	SAMPLE DESCRIPTION	REMARKS
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DEPTH	LITHOLOGY	Test & Show	SAMPLE DESCRIPTION	REMARKS
2350				
2400				Anhydrite 2401 (+606)
2424				Base Anhydrite 2424 (+583)
2450				Geologist on location 3200' at 1:45 am 8/12/2012 Bit Trip at 3319' to change from PDC to button. Strap out of hole was +1.24' long to board.
3600				8:00am, 8/12/2012
3700				Topeka 3725 (-718) wt 8.9, vis. 54, lcm 6# Morgan Mud, Dave Lines
3800				
3900				
3960				Heebner Shale 3960 (-953)
4000				Lansing 4004 (-997)
4024				DST #1 4024-4065 30-60-30-60 1st open: BOB 24 min 2nd open: BOB 44 min Rec: 620' mcv 10/95 320' mcv 40/60 hydro: 2001-1898 psi lf: 34-241 psi ff: 299-468 psi sip: 1060-1054 psi bht: 116°F chl: 4200 ppm api rw: 1.30 @ 81°F
4100				8:00am, 8/13/2012 wt 9.3, vis. 72, lcm 6# Morgan Mud, Cade Lines
4200				DST #2 4220-4280 30-60-60-90 1st open: fair blow built to 7 1/4" 2nd open: bob 56 min Rec: 210' wcm 20/80 120' wcm 40/60 hydro: 2105-1996 psi lf: 14-141 psi ff: 141-221 psi sip: 1135-1127 psi bht: 122°F chl: 3100 ppm api rw: 1.59 @ 66°F
4261				Stark Shale 4261 (-1254)
4300				8:00am, 8/15/2012
4320				DST #3 4308-4340 30-60-30-60 1st open: bob 4 min 2nd open: bob 8 min no returns Rec: 230' ocmv 10/30/60 320' ocmv 10/20/70 190' ocmv 5/10/85 hydro: 2155-2120 psi lf: 70-370 psi ff: 304-533 psi sip: 999-960 psi bht: 125°F chl: 2500 ppm api rw: 1.98 @ 84°F
4400				DST #4 MIS-RUN PACKER FAILURE reset twice did not hold 4417-4515 Rec: 265' m w os hydro: 2238-2214 psi
4420				DST #5 MIS-BRIDGE 2200' DID NOT MAKE IT PAST CAME OUT WENT BACK TO BOTTOM WITH BIT CIRCULATED AND CAME BACK OUT FOR TEST
4477				DST #6 4385-4515 30-60-60-90 1st open: slow build to 2 1/2" 2nd open: slow build to 3" no returns Rec: 15' mco 30/70 60' ocm 30/70 hydro: 2179-2140 psi lf: 24-36 psi ff: 48-61 psi sip: 1071-1009 psi bht: 118°F
4500				8:00am, 8/16/2012
4518				wt 9.3, vis. 45, lcm 4# Morgan Mud, Cade Lines
4518				Pawnee 4477 (-1470)
4518				8:00am, 8/17/2012 wt 9.3, vis. 58, lcm 7# Morgan Mud, Cade Lines
4518				Ft Scott 4518 (-1511)
4600				8:00am, 8/18/2012
4679				wt 9.4, vis. 55, lcm 5# Morgan Mud, Cade Lines
4679				DST #7 4561-4628 30-60-60-90 1st open: fair build to 7" 2nd open: fair build to 6 1/2" no returns Rec: 5' oil 60' gmco 5/35/60 120' gmco 10/20/60 hydro: 2281-2185 psi lf: 20-65 psi ff: 79-118 psi sip: 970-728 psi bht: 123°F
4679				8:00am, 8/19/2012
4679				wt 9.4, vis. 65, lcm 4# Morgan Mud, Cade Lines
4679				Mississippi 4679 (-1672)
4700				DST #8 4623-4668 30-60-30-60 1st open: slow build to 2" 2nd open: no blow (chert indicated plugging) no returns Rec: 120' mud-w-oil spots hydro: 2352-2330 psi lf: 65-56 psi ff: 65-76 psi sip: 1076-758 psi bht: 122°F
4780				RTD 4780 (-1773) 8:00am, 8/20/2012 Geologist off location at 11:54am, 8/20/2012



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.13 @ 11:58:41

End Date: 2012.08.13 @ 20:10:11

Job Ticket #: 50001 DST #: 1

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

Printed: 2012.08.22 @ 11:28:19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 50001

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.08.13 @ 11:58:41

Tool Information

Drill Pipe:	Length: 3765.00 ft	Diameter: 3.80 inches	Volume: 52.81 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	92000.00 lb
			<u>Total Volume: 54.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4024.00 ft			Final	83000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4003.00	-999999.00
Shut In Tool	5.00			4008.00	-999999.00
Hydraulic tool	5.00			4013.00	-999999.00
Safety Joint	2.00			4015.00	-999999.00
Packer	5.00			4020.00	22.00 Bottom Of Top Packer
Packer	4.00			4024.00	-999999.00
Stubb	1.00			4025.00	-999999.00
Perforations	2.00			4027.00	-999999.00
Recorder	0.00	8368	Inside	4027.00	-999999.00
Recorder	0.00	6667	Outside	4027.00	-999999.00
Change Over Sub	1.00			4028.00	-999999.00
Drill Pipe	31.00			4059.00	-999999.00
Change Over Sub	1.00			4060.00	-999999.00
Bullnose	5.00			4065.00	41.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 50001

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.08.13 @ 11:58:41

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 24000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	10%M 90%W	6.283
320.00	40%M 60%W	4.489

Total Length: 940.00 ft Total Volume: 10.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil Spots top of the tool

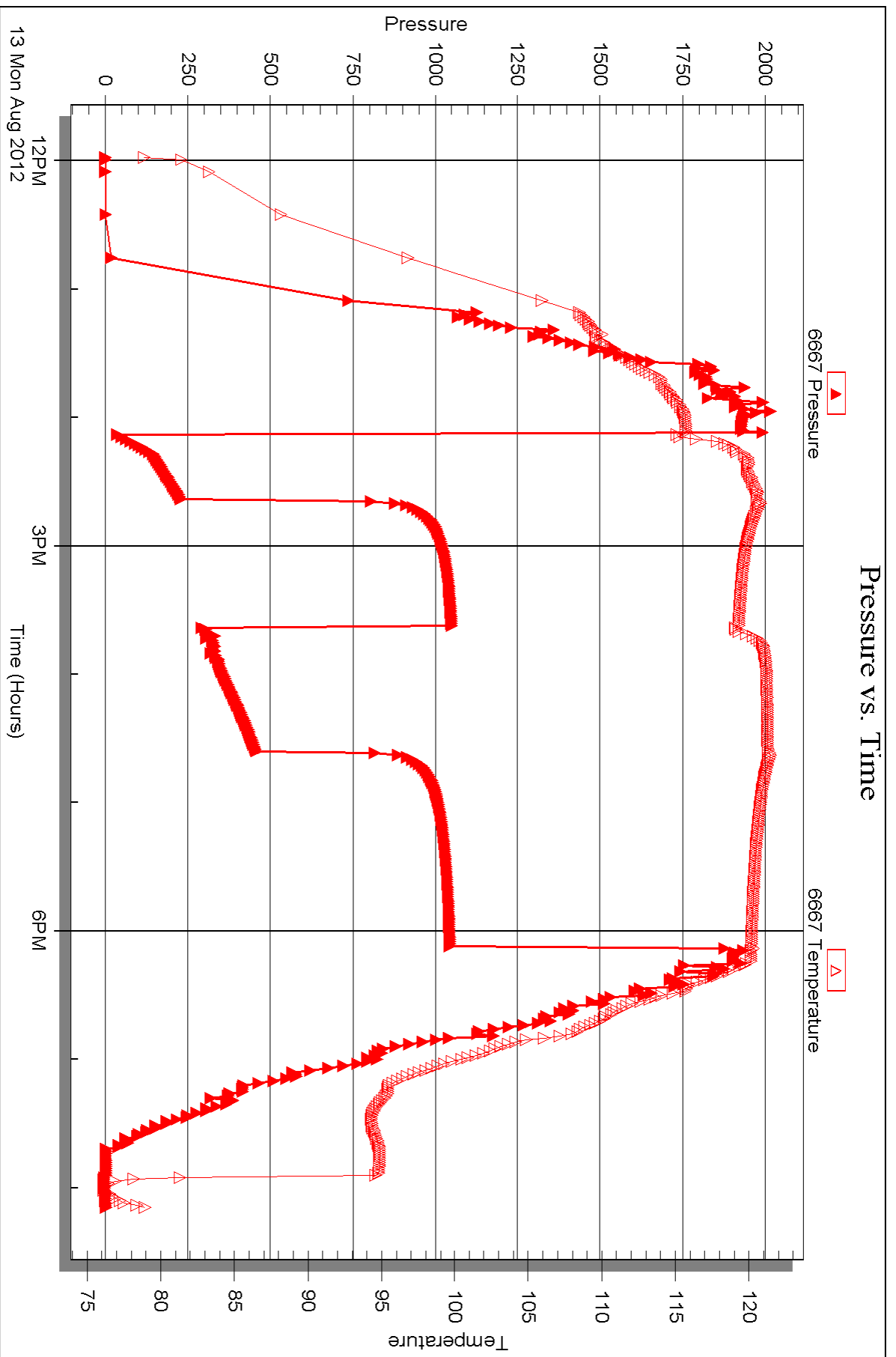
Serial #: 8368

Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 1

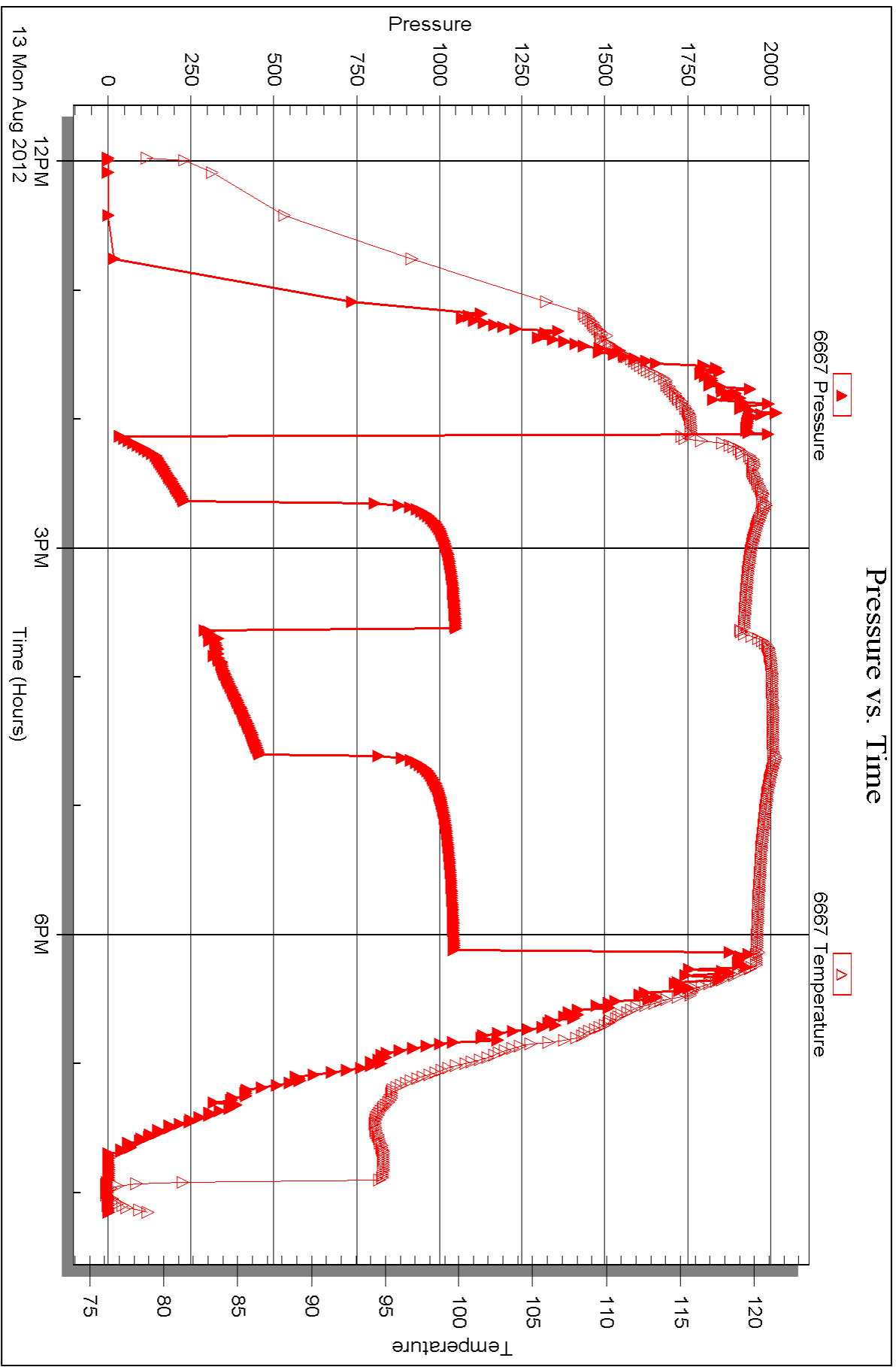


Serial #: 6667

Outside Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.14 @ 21:41:00

End Date: 2012.08.15 @ 05:41:15

Job Ticket #: 47043 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.22 @ 11:23:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47043

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.08.14 @ 21:41:00

GENERAL INFORMATION:

Formation: **Lansing " I, J, K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:35:30

Time Test Ended: 05:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4220.00 ft (KB) To 4280.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4065.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771

Inside

Press @ Run Depth: 221.30 psig @ 4221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.14

End Date:

2012.08.15

Last Calib.: 2012.08.15

Start Time: 21:41:15

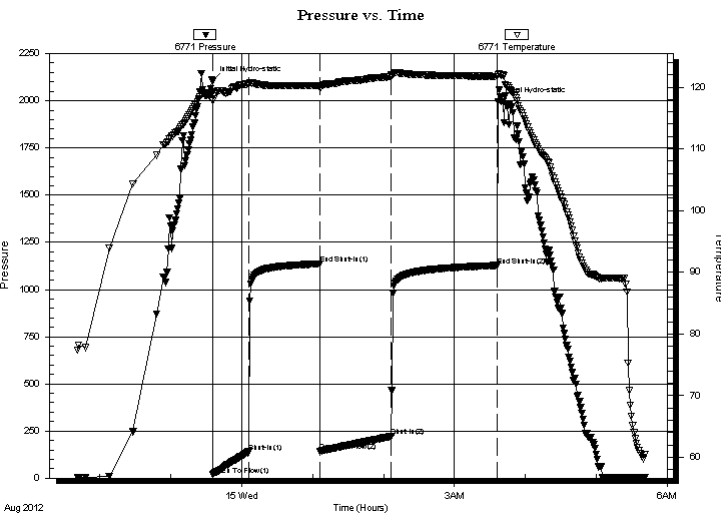
End Time:

05:41:15

Time On Btm: 2012.08.14 @ 23:35:15

Time Off Btm: 2012.08.15 @ 03:36:45

TEST COMMENT: IF: 7 1/4" Blow.
IS: No return.
FF: BOB @ 56 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.32	119.22	Initial Hydro-static
1	17.64	117.72	Open To Flow (1)
31	139.56	120.47	Shut-In(1)
91	1134.70	120.25	End Shut-In(1)
92	141.29	119.83	Open To Flow (2)
152	221.30	121.76	Shut-In(2)
241	1127.20	121.69	End Shut-In(2)
242	1995.55	122.05	Final Hydro-static

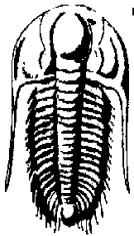
Recovery

Length (ft)	Description	Volume (bbl)
210.00	WCM 20w 80m	1.03
120.00	WCM 40w 60m	1.18
120.00	MCW 30m 70w	1.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc
205 N Water STE 300
Wichita KS 67202
ATTN: Robert Hendrix

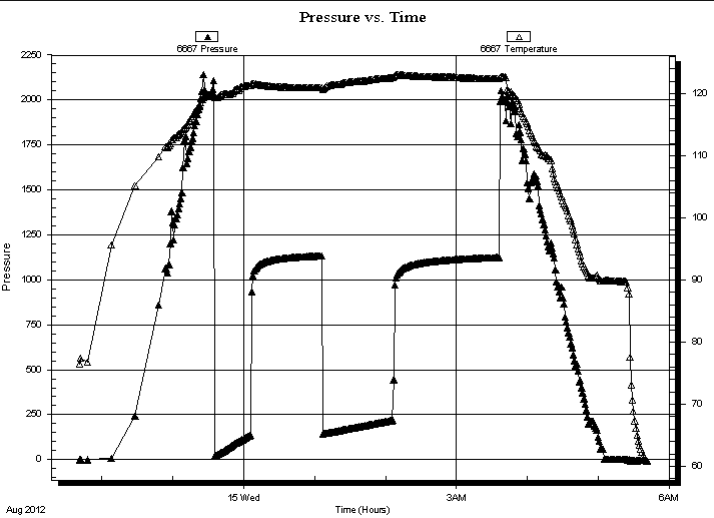
9-16s-32w Scott,KS
Kohrs #1-9
Job Ticket: 47043 **DST#: 2**
Test Start: 2012.08.14 @ 21:41:00

GENERAL INFORMATION:

Formation: **Lansing " I, J, K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:35:30
Time Test Ended: 05:41:15
Interval: 4220.00 ft (KB) To 4280.00 ft (KB) (TVD)
Total Depth: 4065.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Sam Esparza
Unit No: 55
Reference Elevations: 3007.00 ft (KB)
2996.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
Press @ RunDepth: psig @ 4221.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.14 End Date: 2012.08.15 Last Calib.: 2012.08.15
Start Time: 21:41:15 End Time: 05:41:15 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 7 1/4" Blow .
IS: No return.
FF: BOB @ 56 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
210.00	WCM 20w 80m	1.03
120.00	WCM 40w 60m	1.18
120.00	MCW 30m 70w	1.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47043

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.08.14 @ 21:41:00

Tool Information

Drill Pipe:	Length: 3955.00 ft	Diameter: 3.80 inches	Volume: 55.48 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4220.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4199.00	
Shut In Tool	5.00			4204.00	
Hydraulic tool	5.00			4209.00	
Safety Joint	2.00			4211.00	
Packer	5.00			4216.00	22.00 Bottom Of Top Packer
Packer	4.00			4220.00	
Stubb	1.00			4221.00	
Recorder	0.00	6771	Inside	4221.00	
Recorder	0.00	6667	Outside	4221.00	
Perforations	21.00			4242.00	
Change Over Sub	1.00			4243.00	
Drill Pipe	31.00			4274.00	
Change Over Sub	1.00			4275.00	
Bullnose	5.00			4280.00	60.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47043

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.08.14 @ 21:41:00

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:

3100 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	WCM 20w 80m	1.033
120.00	WCM 40w 60m	1.182
120.00	MCW 30m 70w	1.683

Total Length: 450.00 ft Total Volume: 3.898 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW: 1.59 @ 66 degrees= 3100ppm

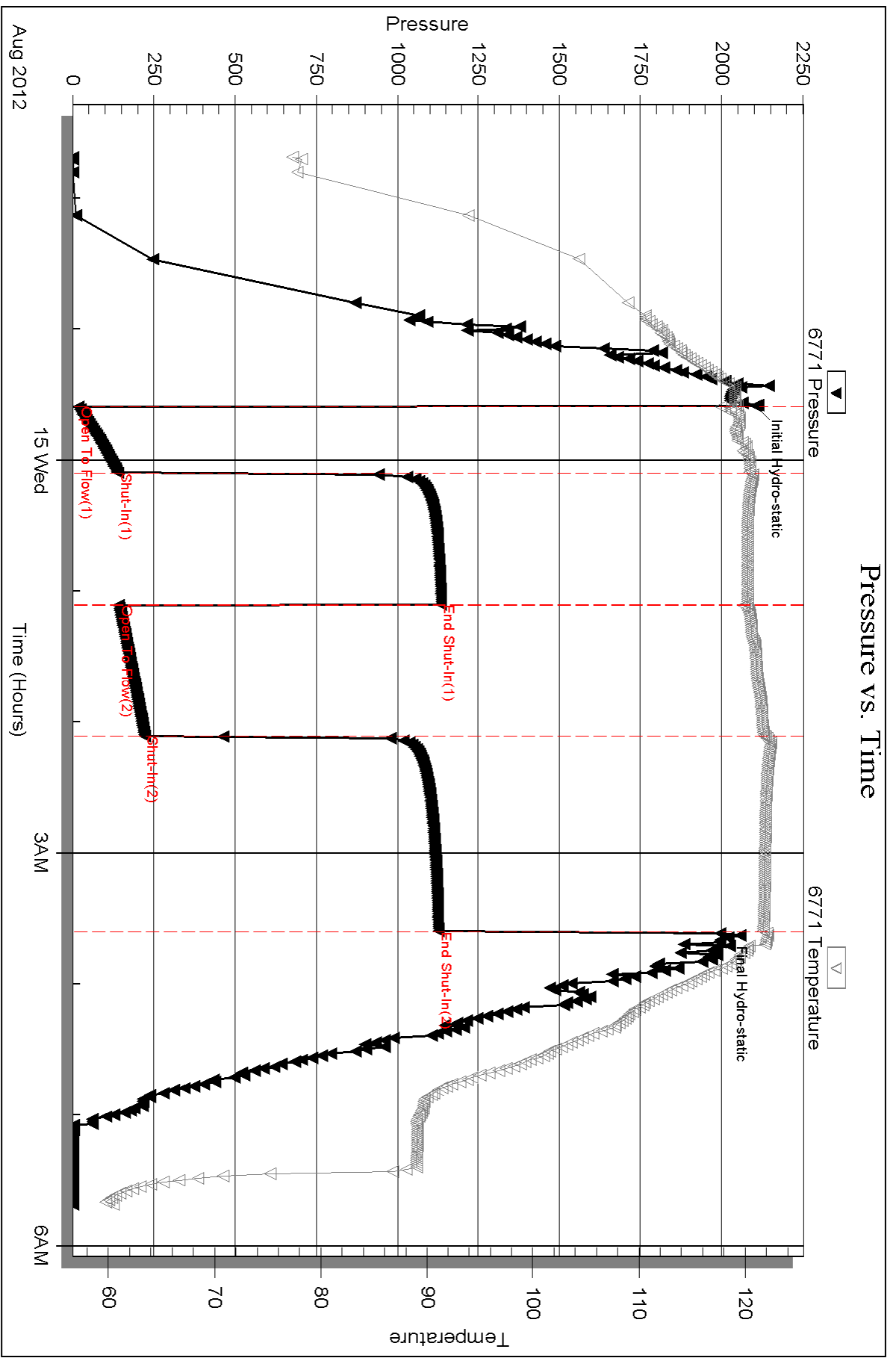
Serial #: 6771

Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47043

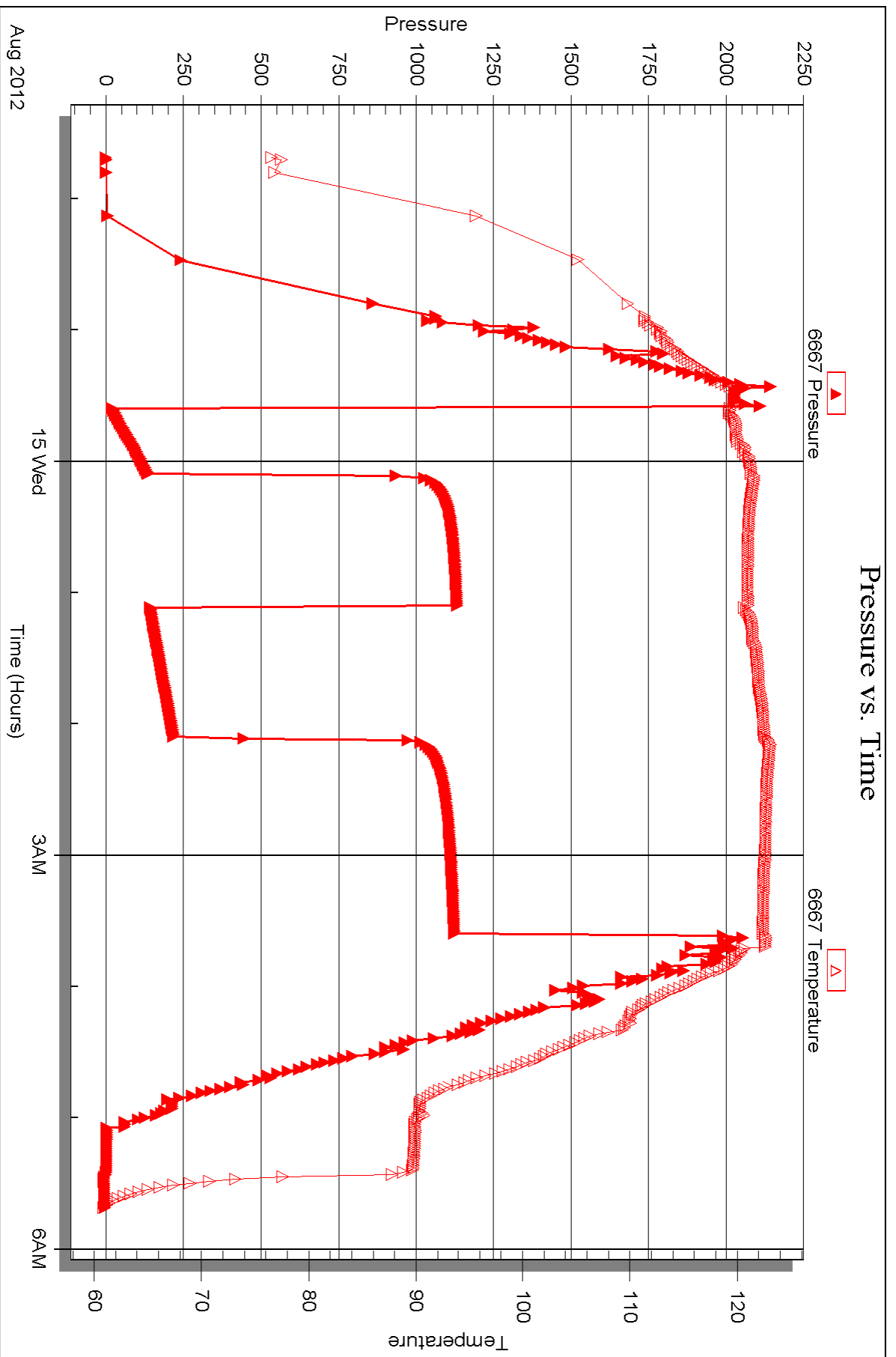
Printed: 2012.08.22 @ 11:23:26

Serial #: 6667

Outside Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.15 @ 15:04:00

End Date: 2012.08.15 @ 22:22:45

Job Ticket #: 47044 DST #: 3

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

Printed: 2012.08.22 @ 11:21:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47044

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.08.15 @ 15:04:00

GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:48:30

Time Test Ended: 22:22:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4308.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771

Inside

Press @ Run Depth: 533.33 psig @ 4309.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.15

End Date:

2012.08.15

Last Calib.:

2012.08.15

Start Time: 15:04:15

End Time:

22:22:45

Time On Btm:

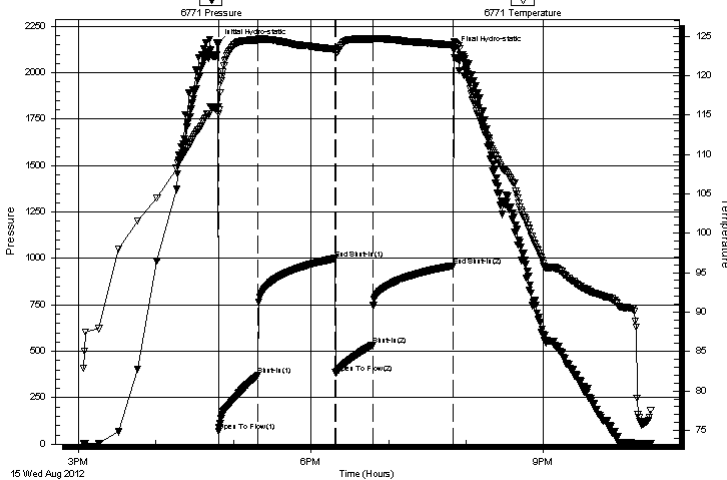
2012.08.15 @ 16:48:15

Time Off Btm:

2012.08.15 @ 19:50:30

TEST COMMENT: IF: BOB @ 4 min.
IS: No return.
FF: BOB @ 8 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.96	116.00	Initial Hydro-static
1	70.21	115.13	Open To Flow (1)
31	369.85	124.50	Shut-In(1)
91	99.27	123.34	End Shut-In(1)
91	384.23	123.03	Open To Flow (2)
120	533.33	124.61	Shut-In(2)
182	960.23	123.86	End Shut-In(2)
183	2119.99	124.30	Final Hydro-static

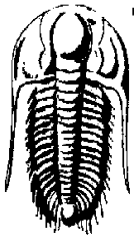
Recovery

Length (ft)	Description	Volume (bbl)
230.00	OWCM 10o 30w 60m	1.13
320.00	OMCW 10o 20m 70w	4.17
190.00	OMCW 5o 10m 85w	2.67
440.00	OMCW 5o 5m 90w	6.17

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

9-16s-32w Scott,KS

Kohrs #1-9

Job Ticket: 47044

DST#: 3

Test Start: 2012.08.15 @ 15:04:00

GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:48:30

Time Test Ended: 22:22:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: **4308.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: 4340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3007.00 ft (KB)

2996.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667 **Outside**

Press @ Run Depth: psig @ 4309.00 ft (KB)

Start Date: 2012.08.15 End Date: 2012.08.15

Start Time: 15:04:15 End Time: 22:22:45

Capacity: 8000.00 psig

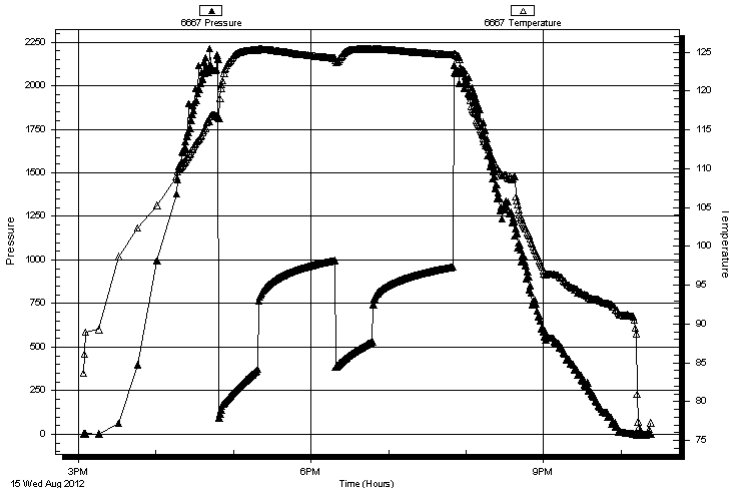
Last Calib.: 2012.08.15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 4 min.
IS: No return.
FF: BOB @ 8 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
230.00	OWCM 10o 30w 60m	1.13
320.00	OMCW 10o 20m 70w	4.17
190.00	OMCW 5o 10m 85w	2.67
440.00	OMCW 5o 5m 90w	6.17

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. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47044

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.08.15 @ 15:04:00

Tool Information

Drill Pipe:	Length: 4049.00 ft	Diameter: 3.80 inches	Volume: 56.80 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 58.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	84000.00 lb
Depth to Top Packer:	4308.00 ft			Final	87000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	54.00 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			4287.00	
Shut In Tool	5.00			4292.00	
Hydraulic tool	5.00			4297.00	
Safety Joint	2.00			4299.00	
Packer	5.00			4304.00	22.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Recorder	0.00	6771	Inside	4309.00	
Recorder	0.00	6667	Outside	4309.00	
Perforations	26.00			4335.00	
Bullnose	5.00			4340.00	32.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47044

DST#: 3

ATTN: Robert Hendrix

Test Start: 2012.08.15 @ 15:04:00

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:

2500 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
230.00	OWCM 10o 30w 60m	1.131
320.00	OMCW 10o 20m 70w	4.170
190.00	OMCW 5o 10m 85w	2.665
440.00	OMCW 5o 5m 90w	6.172

Total Length: 1180.00 ft Total Volume: 14.138 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: 1.98 @ 84 degrees = 2500ppm

Serial #: 6771

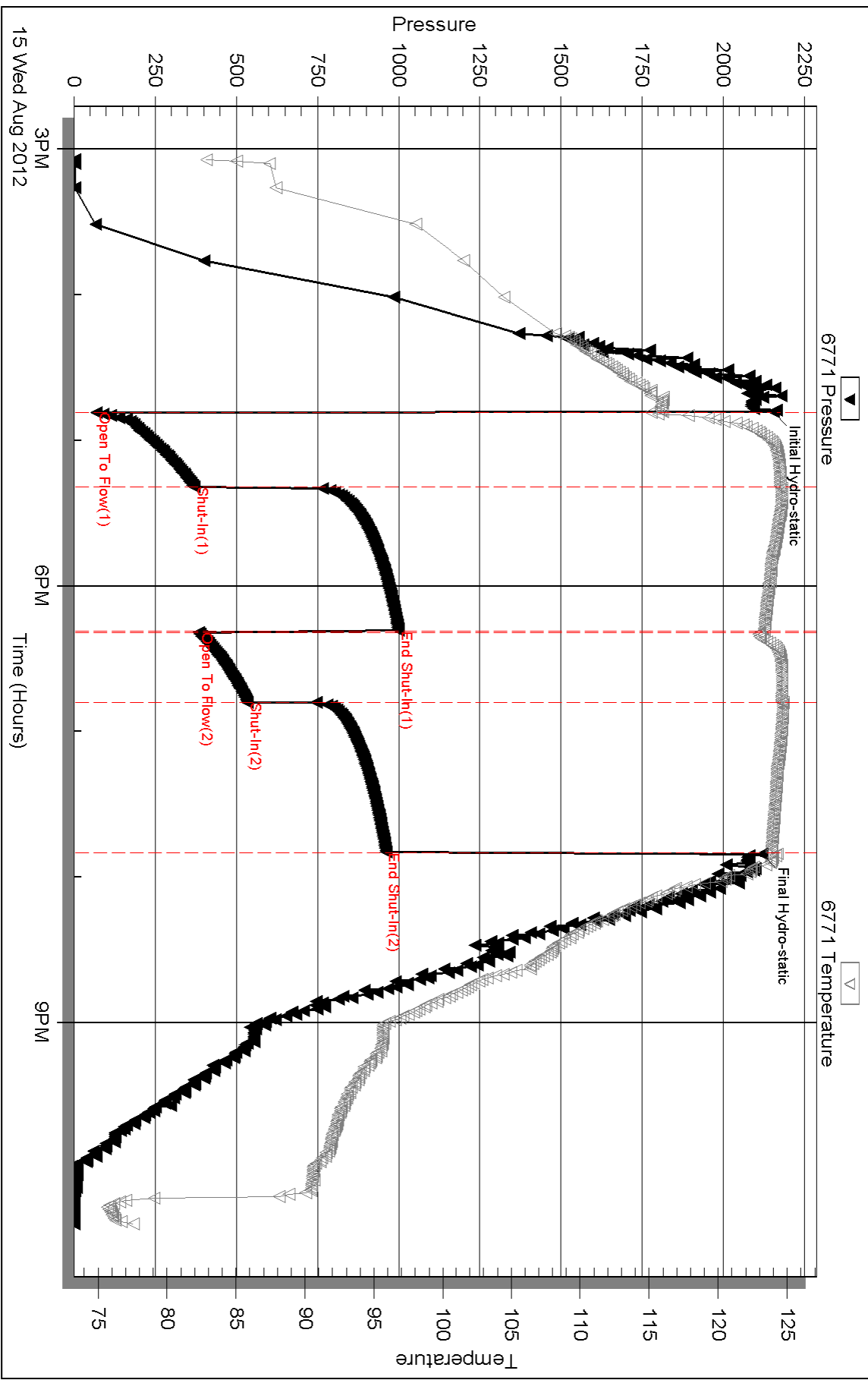
Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47044

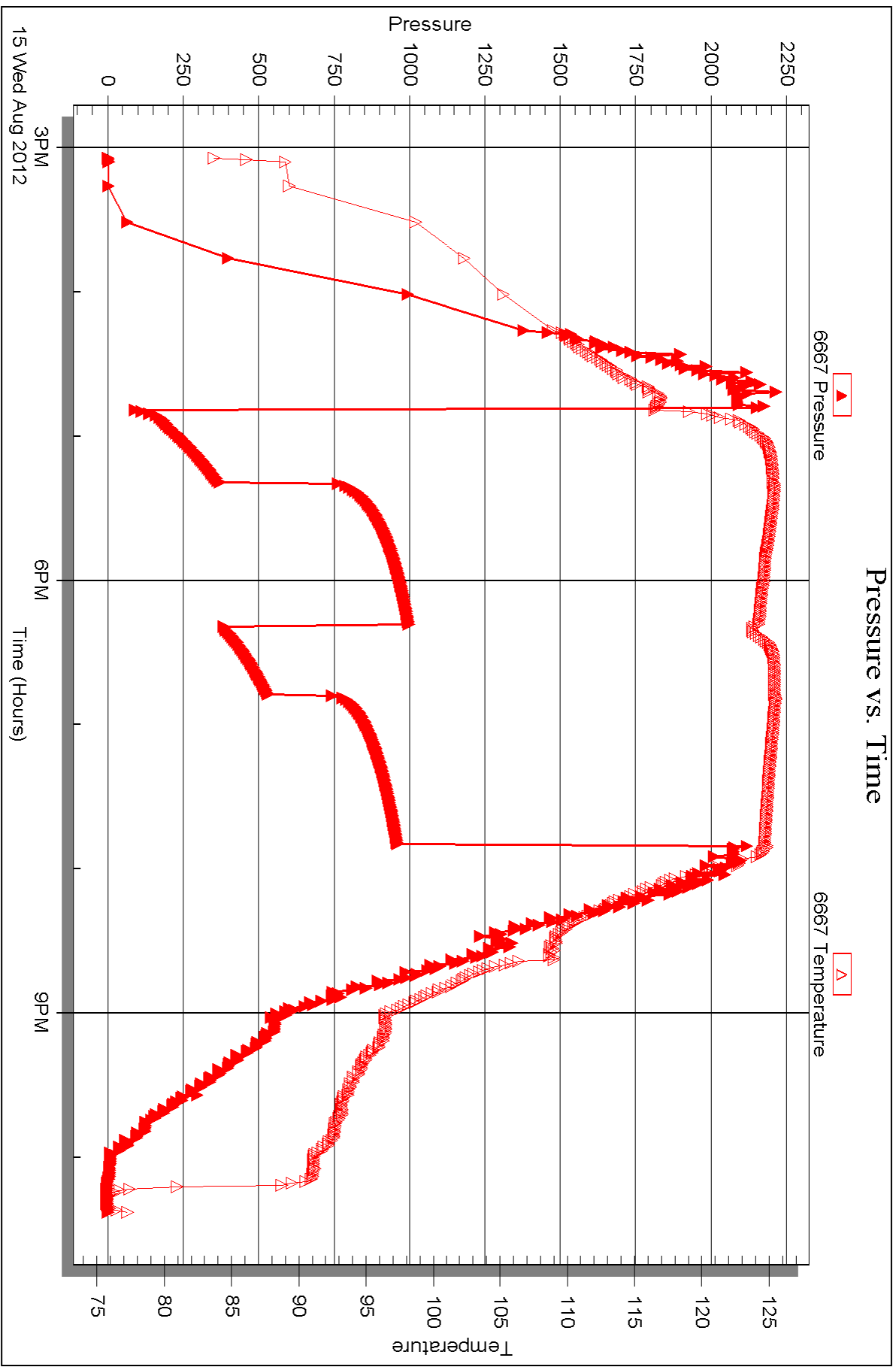
Printed: 2012.08.22 @ 11:21:55

Serial #: 6667

Outside Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.16 @ 21:21:00

End Date: 2012.08.17 @ 01:21:00

Job Ticket #: 47045 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.22 @ 11:20:53

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

Kohrs #1-9

DST # 4

Marmaton- Pawnee

2012.08.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47045

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.08.16 @ 21:21:00

GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4417.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771 Inside

Press @ Run Depth: psig @ 4418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.16

End Date:

2012.08.17

Last Calib.:

2012.08.17

Start Time:

21:18:15

End Time:

01:18:00

Time On Btm:

2012.08.16 @ 23:07:45

Time Off Btm:

2012.08.16 @ 23:17:45

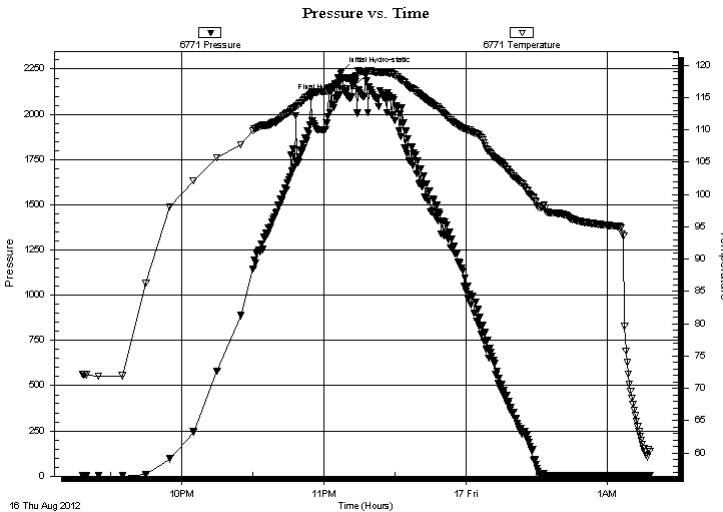
TEST COMMENT: IF: PACKER FAILURE tried to reset twice didnt hold.

IS:

FF:

FS:

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.53	117.91	Initial Hydro-static
10	2214.15	118.97	Final Hydro-static

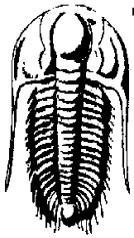
Recovery

Length (ft)	Description	Volume (bbl)
265.00	M 100m (Oil Spots)	1.30

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47045

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.08.16 @ 21:21:00

GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4417.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @RunDepth: psig @ 4418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.16

End Date: 2012.08.17

Last Calib.: 2012.08.17

Start Time: 21:18:15

End Time: 01:18:00

Time On Btm:

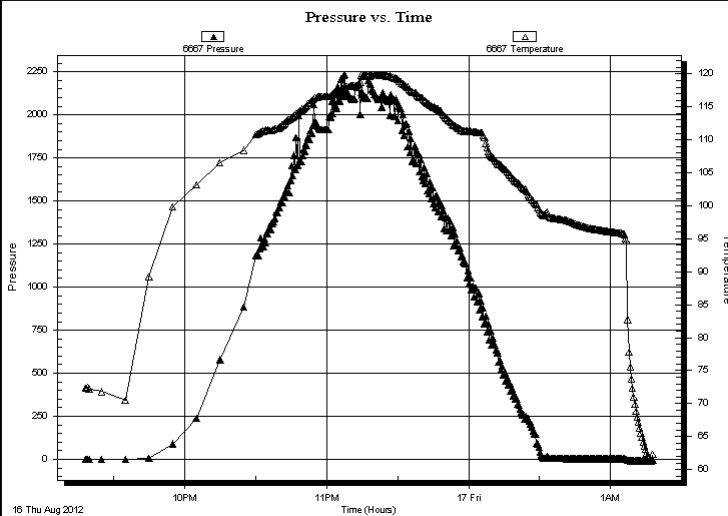
Time Off Btm:

TEST COMMENT: IF: PACKER FAILURE tried to reset twice didnt hold.

IS:

FF:

FS:



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
265.00	M 100m (Oil Spots)	1.30

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. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47045

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.08.16 @ 21:21:00

Tool Information

Drill Pipe:	Length: 4143.00 ft	Diameter: 3.80 inches	Volume: 58.12 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4417.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	120.00 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			4396.00	
Shut In Tool	5.00			4401.00	
Hydraulic tool	5.00			4406.00	
Safety Joint	2.00			4408.00	
Packer	5.00			4413.00	22.00 Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	6771	Inside	4418.00	
Recorder	0.00	6667	Outside	4418.00	
Perforations	27.00			4445.00	
Change Over Sub	1.00			4446.00	
Drill Pipe	63.00			4509.00	
Change Over Sub	1.00			4510.00	
Bullnose	5.00			4515.00	98.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47045

DST#: 4

ATTN: Robert Hendrix

Test Start: 2012.08.16 @ 21:21:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
265.00	M 100m (Oil Spots)	1.303

Total Length: 265.00 ft Total Volume: 1.303 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Packer Failure

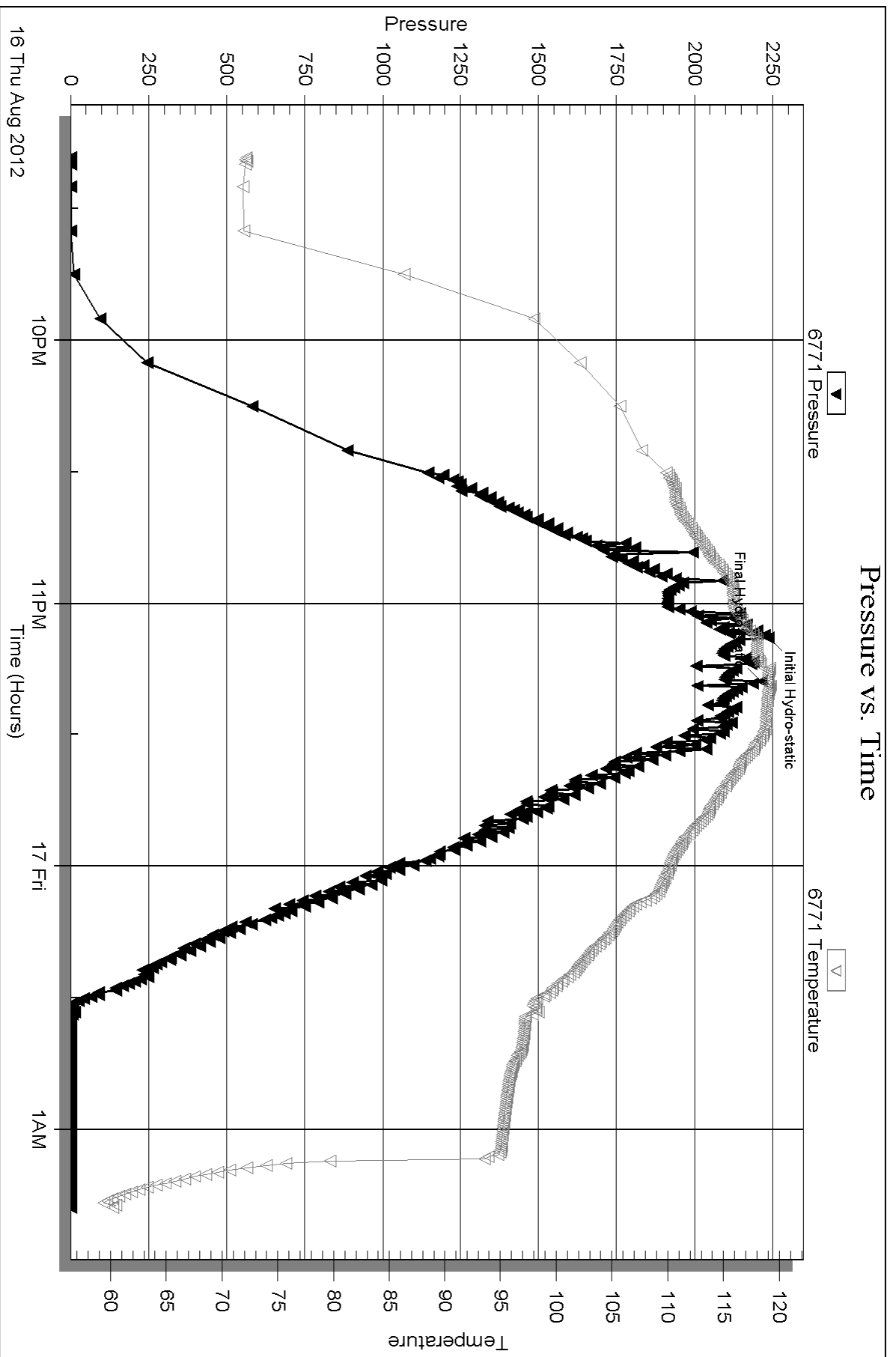
Serial #: 6771

Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 4

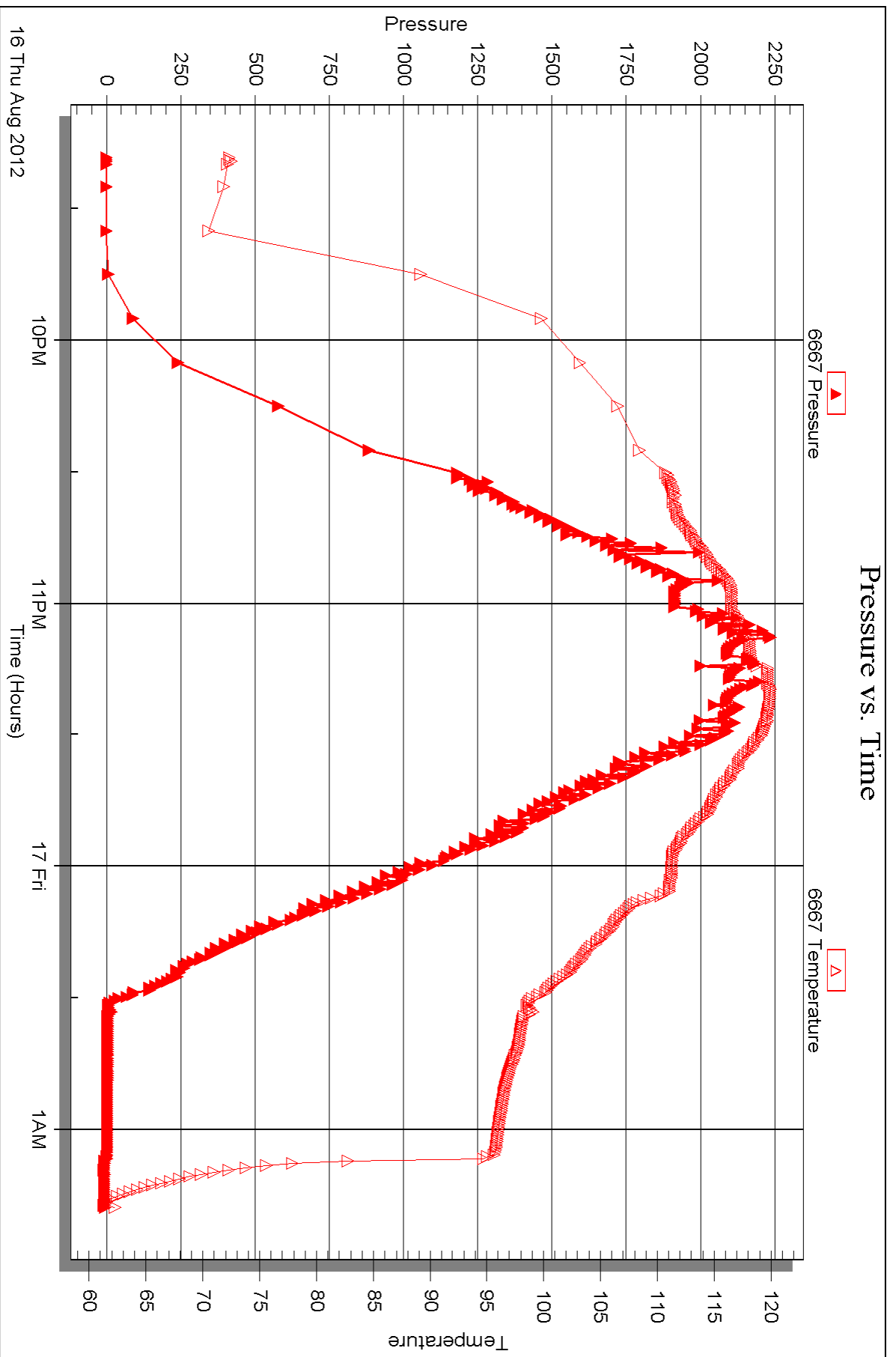


Serial #: 6667

Outside Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 47045

Printed: 2012.08.22 @ 11:20:57



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.17 @ 01:47:00

End Date: 2012.08.17 @ 04:18:30

Job Ticket #: 47046 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.22 @ 11:19:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47046

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 01:47:00

GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 04:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4385.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771 Inside

Press @ RunDepth: psig @ 4386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.17

End Date:

2012.08.17

Last Calib.:

2012.08.17

Start Time:

01:47:15

End Time:

04:18:30

Time On Btm:

2012.08.17 @ 02:59:15

Time Off Btm:

2012.08.17 @ 03:11:00

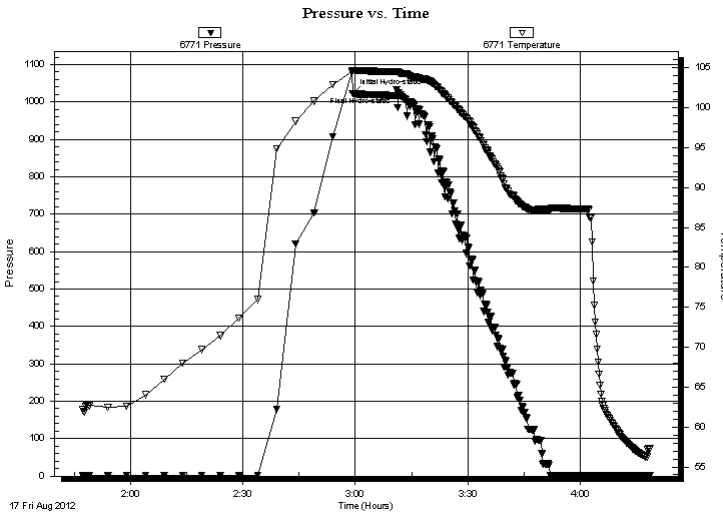
TEST COMMENT: IF: MIS-RUN Hit bridge and couldnt go any further.

IS:

FF:

FS:

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1022.34	104.64	Initial Hydro-static
12	1033.94	104.57	Final Hydro-static

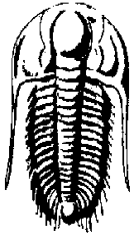
Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47046

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 01:47:00

GENERAL INFORMATION:

Formation: **Marmaton- Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 04:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4385.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ RunDepth: psig @ 4386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.17 End Date: 2012.08.17

Last Calib.: 2012.08.17

Start Time: 01:47:15 End Time: 04:18:30

Time On Btm:

Time Off Btm:

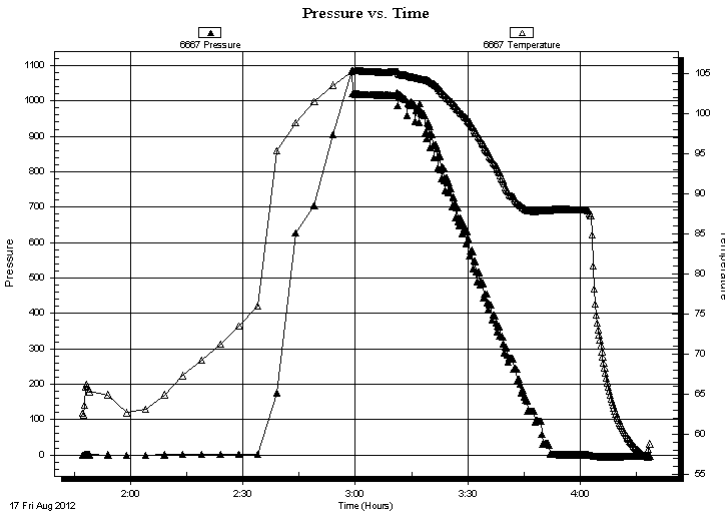
TEST COMMENT: IF: MIS-RUN Hit bridge and couldnt go any further.

IS:

FF:

FS:

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47046

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 01:47:00

Tool Information

Drill Pipe:	Length: 4112.00 ft	Diameter: 3.80 inches	Volume: 57.68 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 58.98 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	lb
Depth to Top Packer:	4385.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	130.00 ft				
Tool Length:	152.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Safety Joint	2.00			4376.00	
Packer	5.00			4381.00	22.00 Bottom Of Top Packer
Packer	4.00			4385.00	
Stubb	1.00			4386.00	
Recorder	0.00	6771	Inside	4386.00	
Recorder	0.00	6667	Outside	4386.00	
Perforations	28.00			4414.00	
Change Over Sub	1.00			4415.00	
Drill Pipe	94.00			4509.00	
Change Over Sub	1.00			4510.00	
Bullnose	5.00			4515.00	130.00 Bottom Packers & Anchor

Total Tool Length: 152.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47046

DST#: 5

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 01:47:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

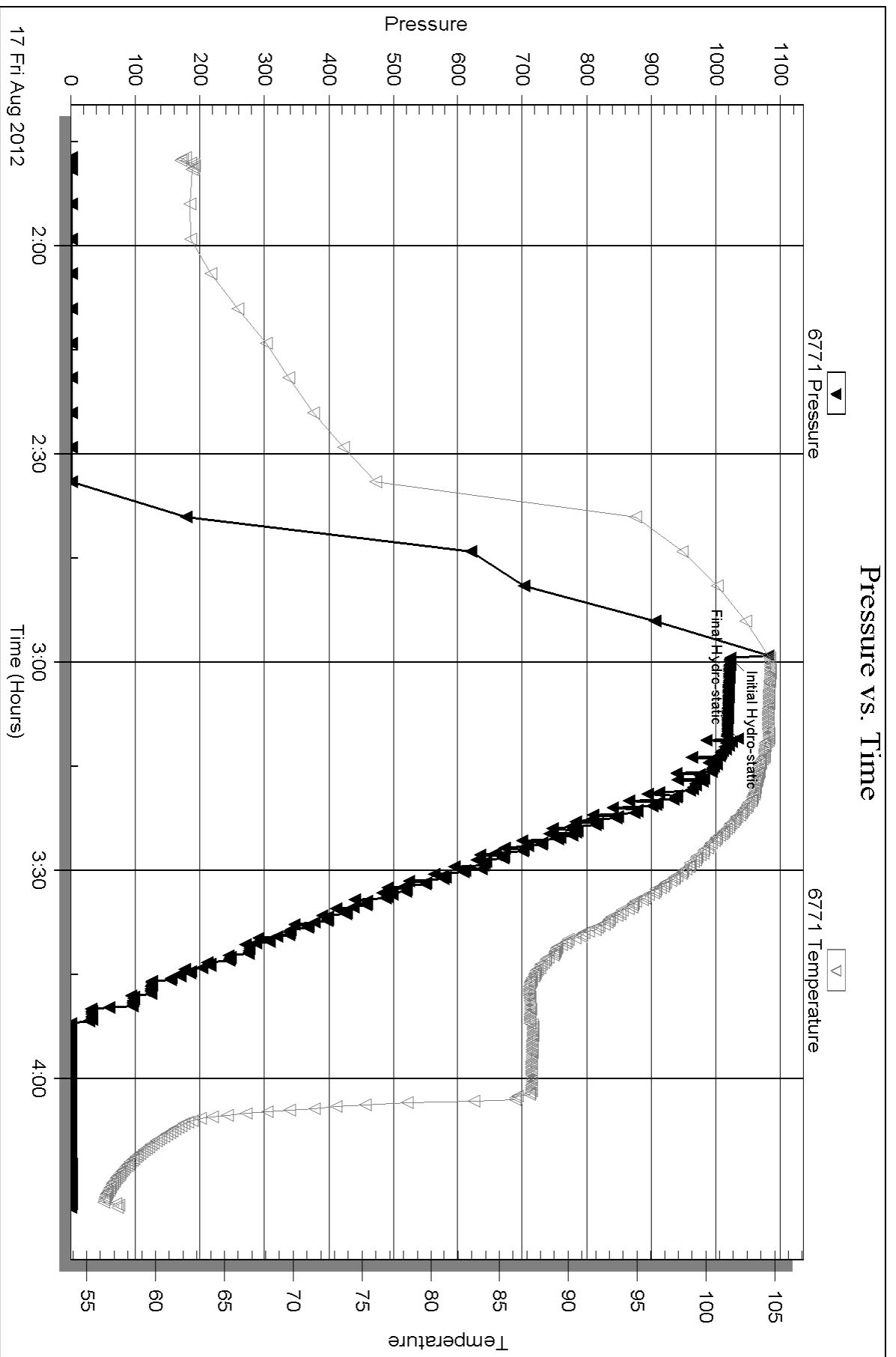
Serial #: 6771

Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 5

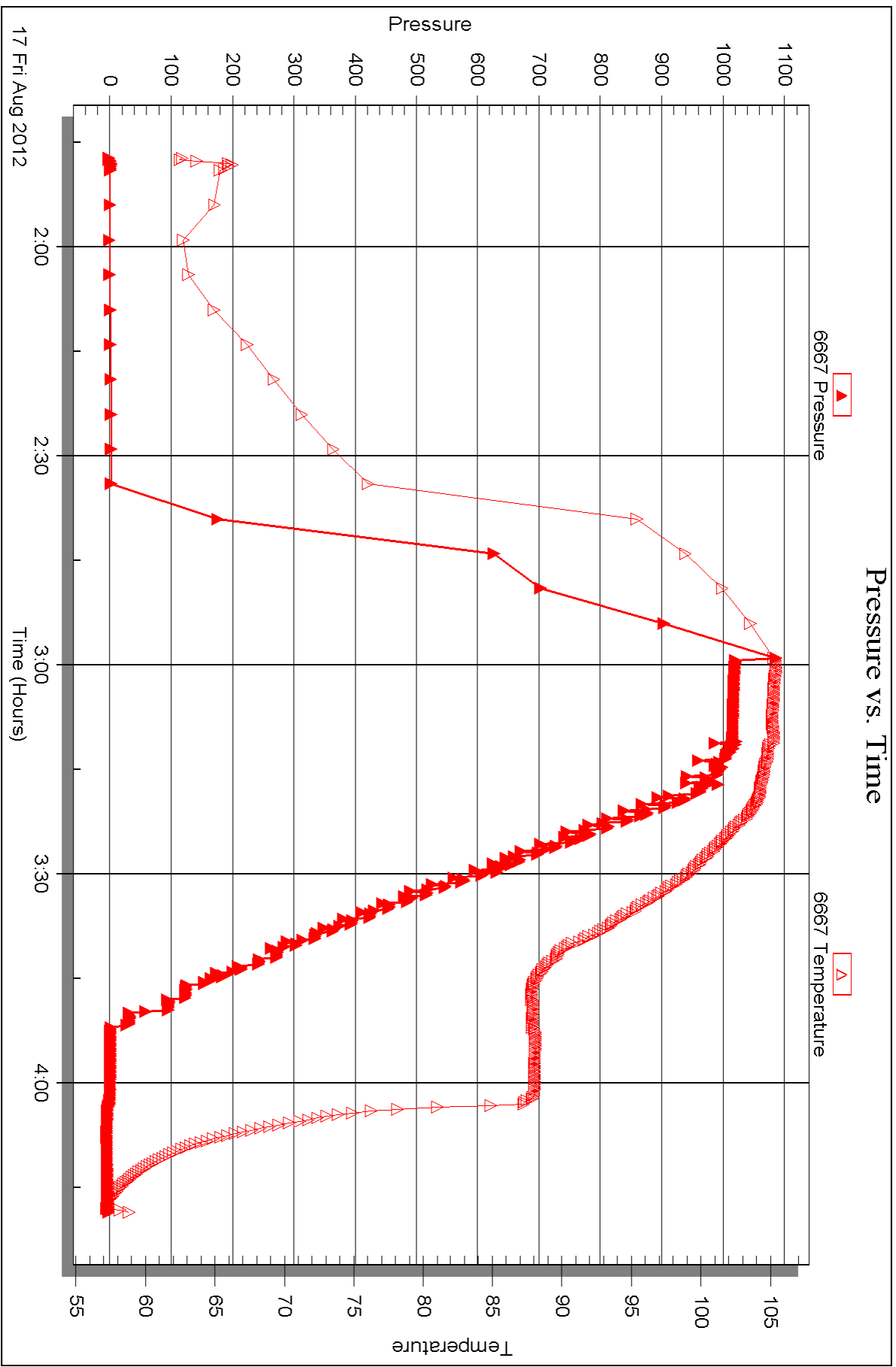


Serial #: 6667

Outside Murfin Drilling Co. Inc

Kohrs #1-9

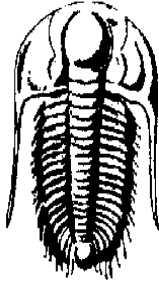
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Triobite Testing, Inc

Ref. No: 47046

Printed: 2012.08.22 @ 11:20:06



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.17 @ 09:57:00

End Date: 2012.08.17 @ 18:09:15

Job Ticket #: 47047 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.22 @ 11:18:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47047

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 09:57:00

GENERAL INFORMATION:

Formation: **Marmaton-Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:00:45

Time Test Ended: 18:09:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4385.00 ft (KB) To 4515.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771 Outside

Press @ RunDepth: 60.96 psig @ 4386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.17

End Date: 2012.08.17

Last Calib.: 2012.08.17

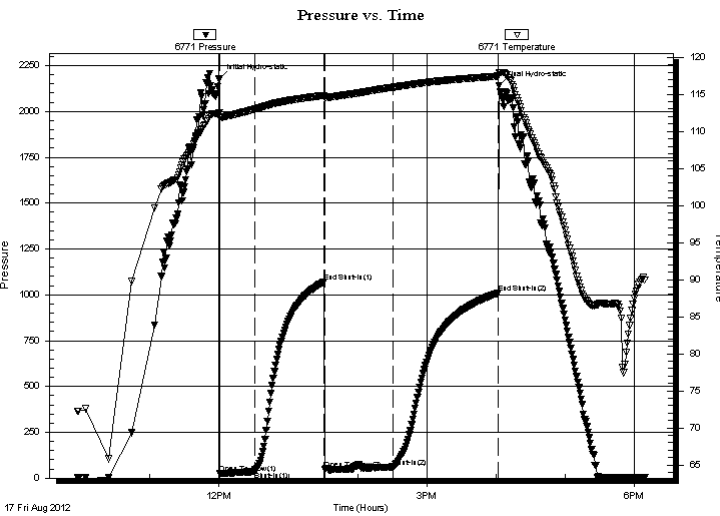
Start Time: 09:57:15

End Time: 18:09:15

Time On Btm: 2012.08.17 @ 12:00:15

Time Off Btm: 2012.08.17 @ 16:02:45

TEST COMMENT: IF: 2 1/2" blow .
IS: No return.
FF: 3" blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.40	112.56	Initial Hydro-static
1	23.79	111.87	Open To Flow (1)
31	36.39	113.02	Shut-In(1)
91	1070.81	114.86	End Shut-In(1)
92	48.03	114.52	Open To Flow (2)
151	60.96	115.96	Shut-In(2)
242	1009.31	117.45	End Shut-In(2)
243	2140.01	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCO 30m 70o	0.07
60.00	OCM 30o 70m	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47047

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 09:57:00

Tool Information

Drill Pipe:	Length: 4113.00 ft	Diameter: 3.80 inches	Volume: 57.69 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 58.99 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	86000.00 lb
Depth to Top Packer:	4385.00 ft			Final	87000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	130.00 ft				
Tool Length:	157.00 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			4359.00	
Shut In Tool	5.00			4364.00	
Hydraulic tool	5.00			4369.00	
Jars	5.00			4374.00	
Safety Joint	2.00			4376.00	
Packer	5.00			4381.00	27.00 Bottom Of Top Packer
Packer	4.00			4385.00	
Stubb	1.00			4386.00	
Recorder	0.00	6771	Outside	4386.00	
Recorder	0.00	6667	Inside	4386.00	
Perforations	28.00			4414.00	
Change Over Sub	1.00			4415.00	
Drill Pipe	94.00			4509.00	
Change Over Sub	1.00			4510.00	
Bullnose	5.00			4515.00	130.00 Bottom Packers & Anchor

Total Tool Length: 157.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47047

DST#: 6

ATTN: Robert Hendrix

Test Start: 2012.08.17 @ 09:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	MCO 30m 70o	0.074
60.00	OCM 30o 70m	0.295

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

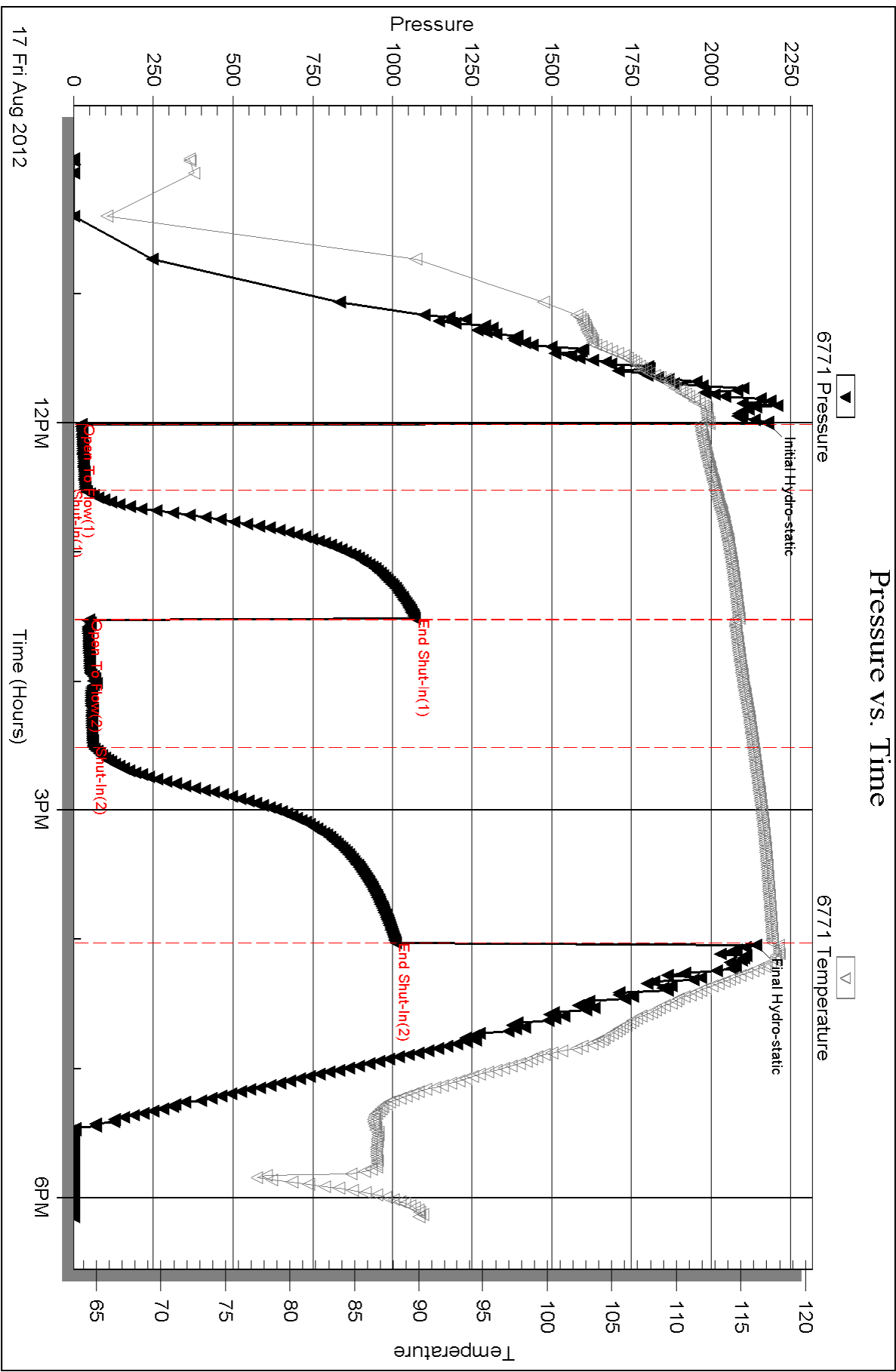
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



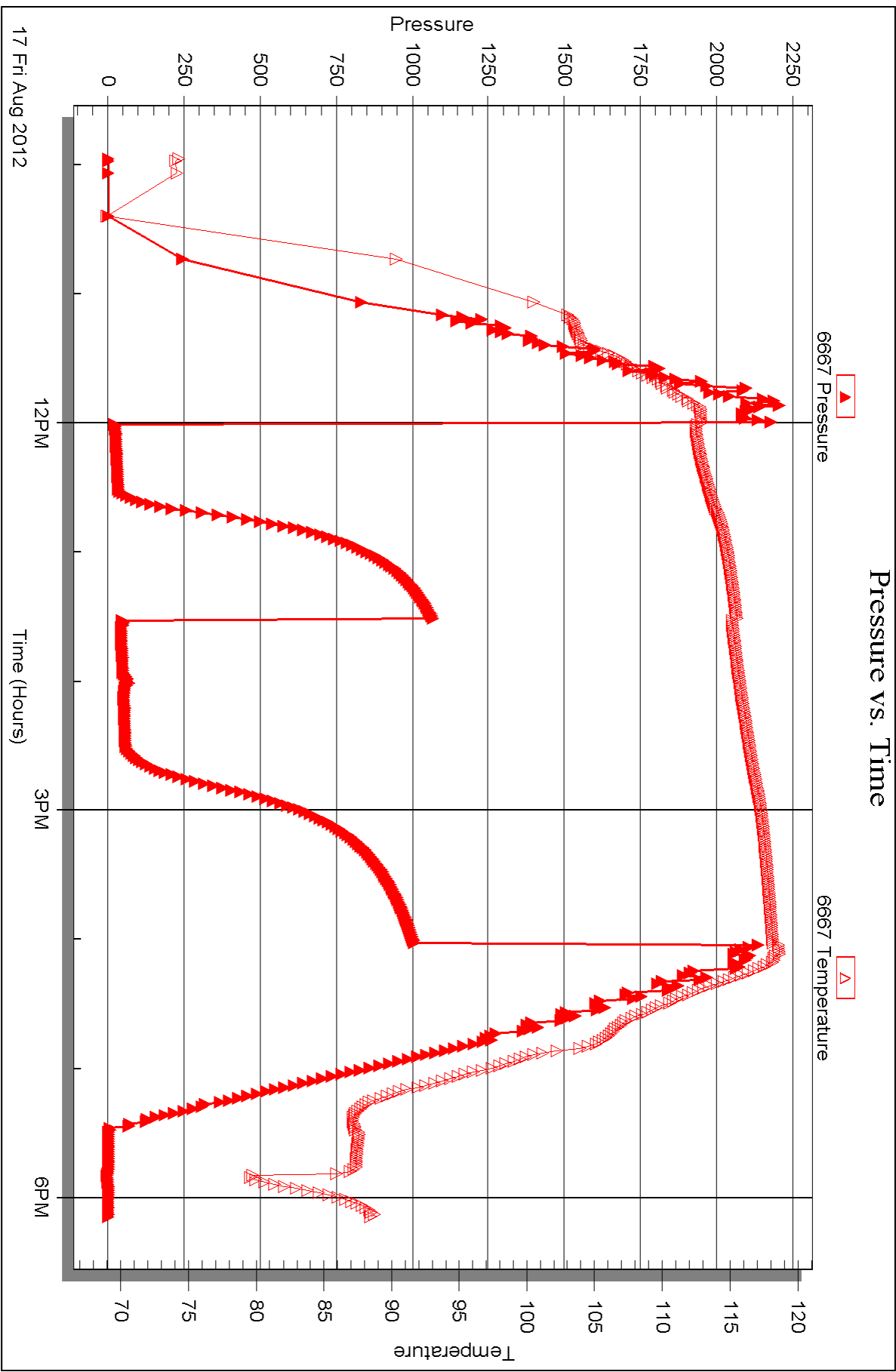
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Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.18 @ 12:24:00

End Date: 2012.08.18 @ 20:32:00

Job Ticket #: 47048 DST #: 7

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

Printed: 2012.08.22 @ 11:18:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47048

DST#: 7

ATTN: Robert Hendrix

Test Start: 2012.08.18 @ 12:24:00

GENERAL INFORMATION:

Formation: **Johnson- Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:26:30

Time Test Ended: 20:32:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4561.00 ft (KB) To 4628.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4628.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 117.63 psig @ 4562.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.18

End Date: 2012.08.18

Last Calib.: 2012.08.18

Start Time: 12:24:15

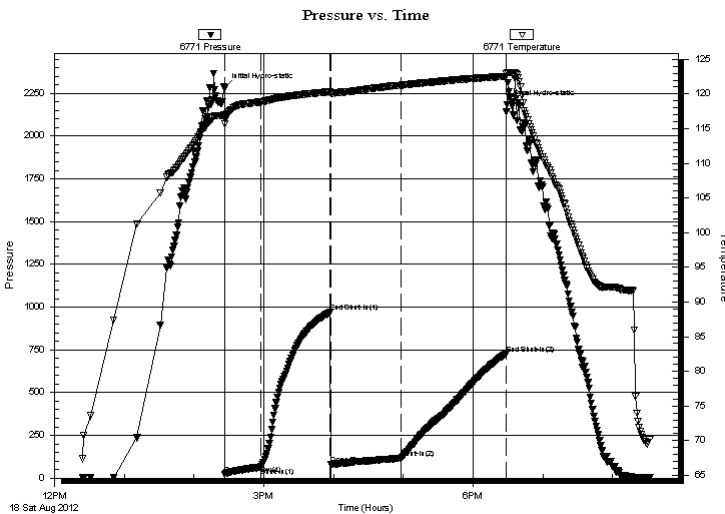
End Time: 20:32:00

Time On Btm: 2012.08.18 @ 14:26:15

Time Off Btm: 2012.08.18 @ 18:29:00

TEST COMMENT: IF: 7" blow.
IS: No return.
FF: 6 1/2" blow
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.19	116.96	Initial Hydro-static
1	20.37	115.63	Open To Flow (1)
31	65.18	118.85	Shut-In(1)
91	969.78	120.32	End Shut-In(1)
92	79.15	120.02	Open To Flow (2)
152	117.63	121.26	Shut-In(2)
242	728.49	122.53	End Shut-In(2)
243	2184.70	123.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil 100o	0.02
60.00	GMCO 5g 35m 60o	0.30
120.00	GMCO 10g 30m 60o	0.59
60.00	OGCM 10o 20g 70m	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47048

DST#: 7

ATTN: Robert Hendrix

Test Start: 2012.08.18 @ 12:24:00

Tool Information

Drill Pipe:	Length: 4302.00 ft	Diameter: 3.80 inches	Volume: 60.35 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 61.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4561.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	94.00 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			4535.00	
Shut In Tool	5.00			4540.00	
Hydraulic tool	5.00			4545.00	
Jars	5.00			4550.00	
Safety Joint	2.00			4552.00	
Packer	5.00			4557.00	27.00 Bottom Of Top Packer
Packer	4.00			4561.00	
Stubb	1.00			4562.00	
Recorder	0.00	6771	Outside	4562.00	
Recorder	0.00	6667	Inside	4562.00	
Perforations	28.00			4590.00	
Change Over Sub	1.00			4591.00	
Drill Pipe	31.00			4622.00	
Change Over Sub	1.00			4623.00	
Bullnose	5.00			4628.00	67.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47048

DST#: 7

ATTN: Robert Hendrix

Test Start: 2012.08.18 @ 12:24:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Oil 100o	0.025
60.00	GMCO 5g 35m 60o	0.295
120.00	GMCO 10g 30m 60o	0.590
60.00	OGCM 10o 20g 70m	0.295

Total Length: 245.00 ft

Total Volume: 1.205 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

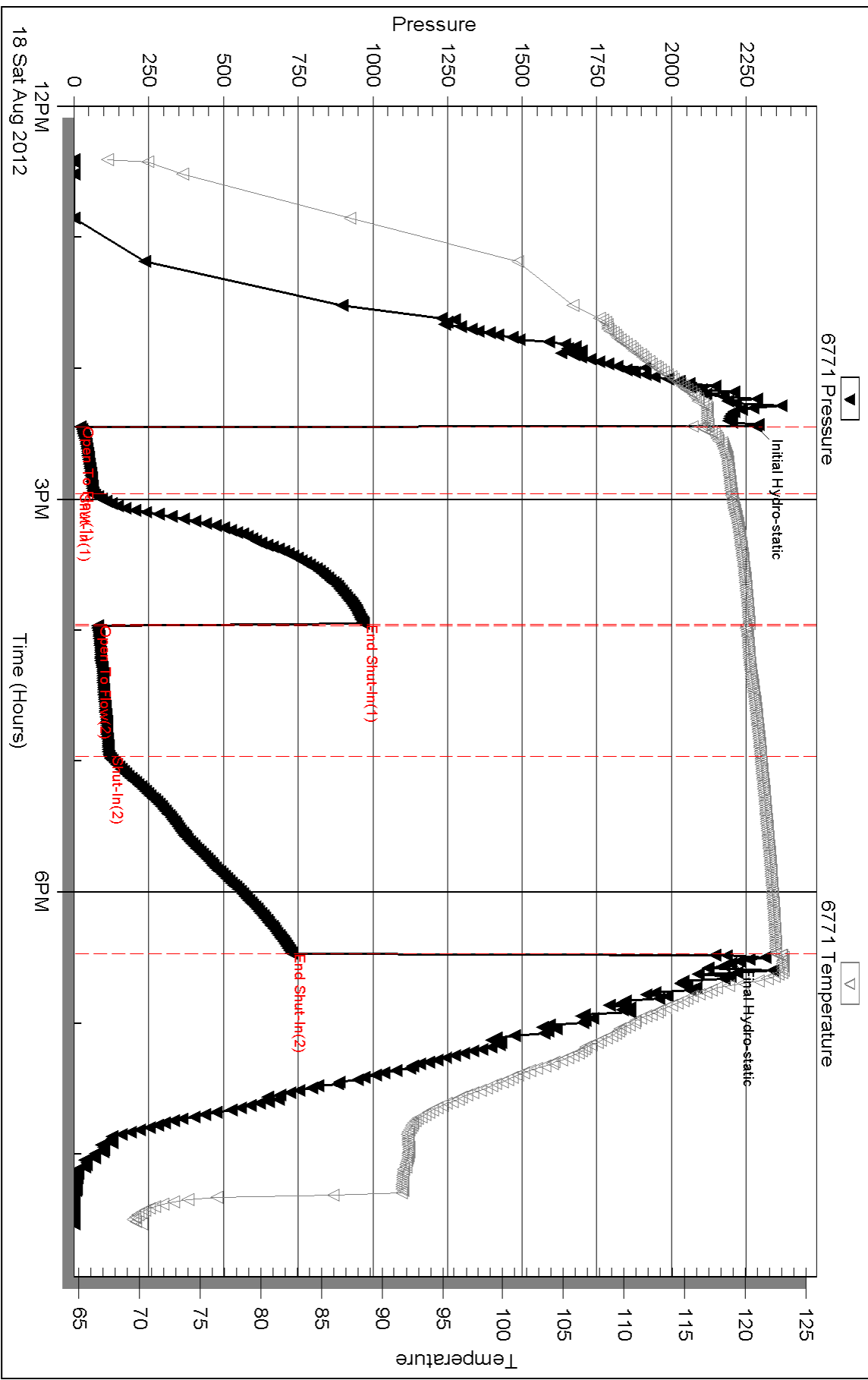
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



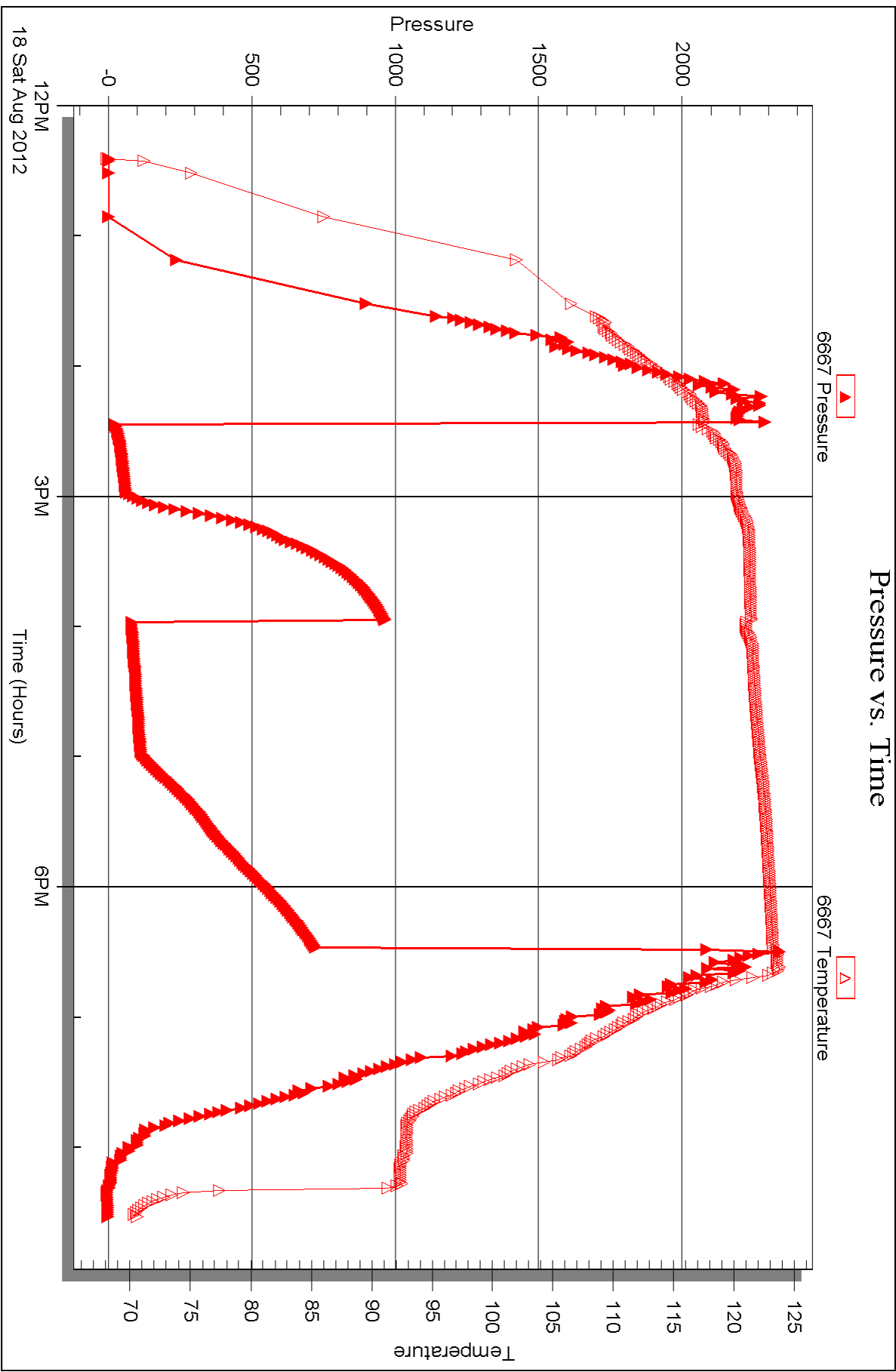
Serial #: 6667

Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc**

205 N Water STE 300
Wichita KS 67202

ATTN: Robert Hendrix

Kohrs #1-9

9-16s-32w Scott,KS

Start Date: 2012.08.19 @ 06:48:00

End Date: 2012.08.19 @ 14:06:45

Job Ticket #: 47049 DST #: 8

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.22 @ 11:16:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47049

DST#: 8

ATTN: Robert Hendrix

Test Start: 2012.08.19 @ 06:48:00

GENERAL INFORMATION:

Formation: **Morrow sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:00

Time Test Ended: 14:06:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 55

Interval: 4623.00 ft (KB) To 4666.00 ft (KB) (TVD)

Reference Elevations: 3007.00 ft (KB)

Total Depth: 4666.00 ft (KB) (TVD)

2996.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 75.64 psig @ 4624.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.19

End Date: 2012.08.19

Last Calib.: 2012.08.19

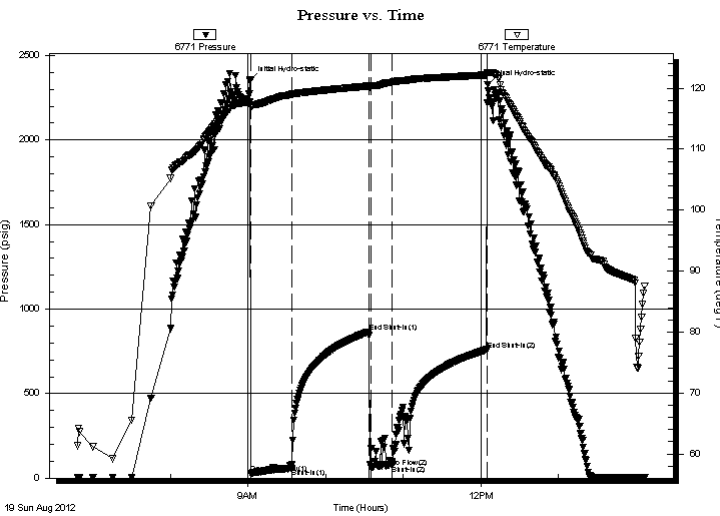
Start Time: 06:48:15

End Time: 14:06:45

Time On Btm: 2012.08.19 @ 09:01:45

Time Off Btm: 2012.08.19 @ 12:05:30

TEST COMMENT: IF: 2" blow.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2351.62	117.76	Initial Hydro-static
1	25.40	116.89	Open To Flow (1)
32	56.18	118.96	Shut-In(1)
92	866.16	120.35	End Shut-In(1)
94	65.48	120.23	Open To Flow (2)
110	75.64	120.97	Shut-In(2)
183	757.95	122.17	End Shut-In(2)
184	2329.68	122.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100m (oil spots)	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47049

DST#: 8

ATTN: Robert Hendrix

Test Start: 2012.08.19 @ 06:48:00

Tool Information

Drill Pipe:	Length: 4364.00 ft	Diameter: 3.80 inches	Volume: 61.22 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 62.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4623.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	70.00 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			4597.00	
Shut In Tool	5.00			4602.00	
Hydraulic tool	5.00			4607.00	
Jars	5.00			4612.00	
Safety Joint	2.00			4614.00	
Packer	5.00			4619.00	27.00 Bottom Of Top Packer
Packer	4.00			4623.00	
Stubb	1.00			4624.00	
Recorder	0.00	6771	Outside	4624.00	
Recorder	0.00	6667	Inside	4624.00	
Perforations	4.00			4628.00	
Change Over Sub	1.00			4629.00	
Drill Pipe	31.00			4660.00	
Change Over Sub	1.00			4661.00	
Bullnose	5.00			4666.00	43.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc

9-16s-32w Scott,KS

205 N Water STE 300
Wichita KS 67202

Kohrs #1-9

Job Ticket: 47049

DST#: 8

ATTN: Robert Hendrix

Test Start: 2012.08.19 @ 06:48:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud 100m (oil spots)	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

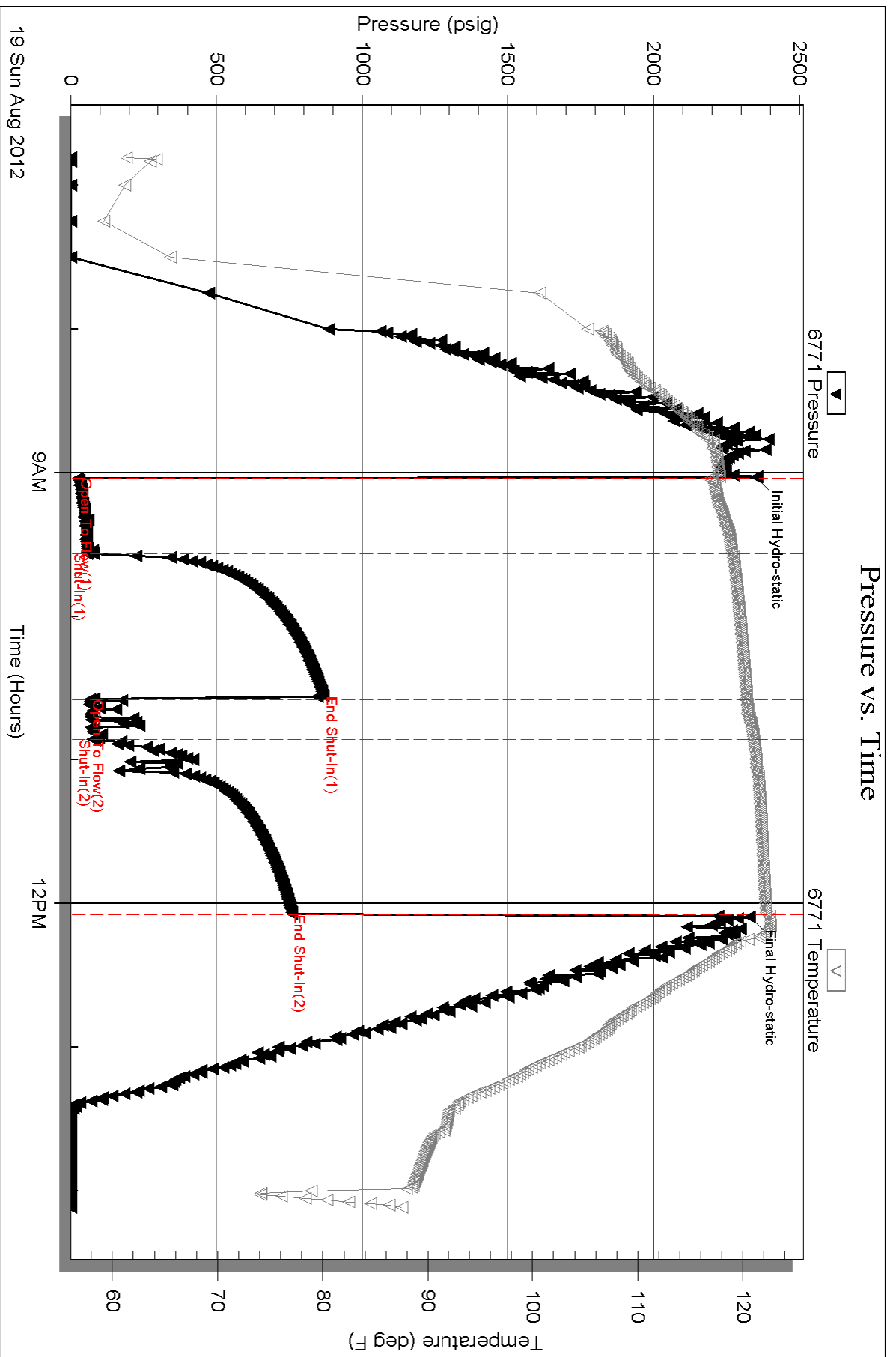
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



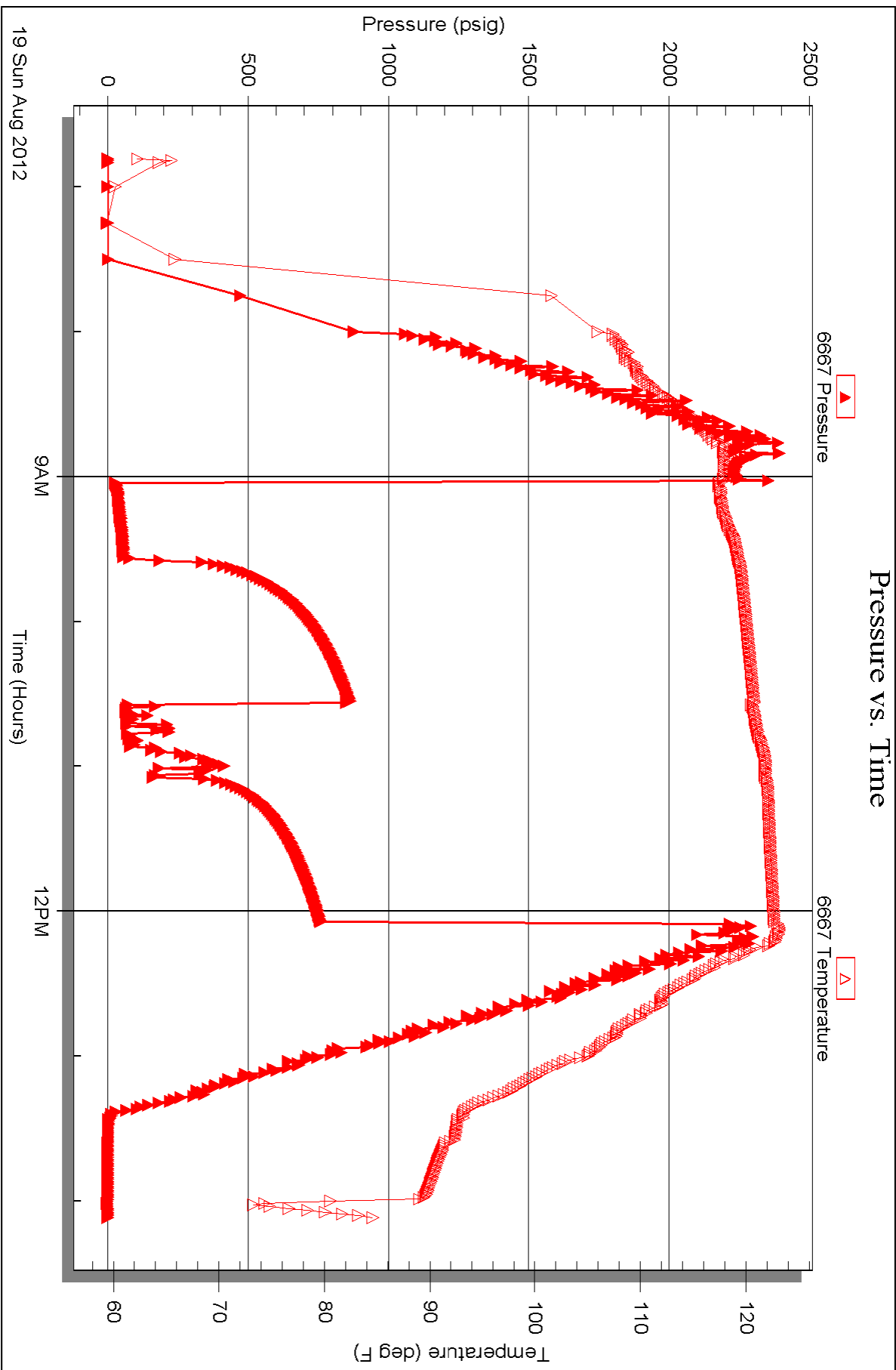
Serial #: 6667

Inside

Murfin Drilling Co. Inc

Kohrs #1-9

DST Test Number: 8





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50001

Well Name & No. Kohrs #1-9 Test No. 1 Date 8-13-12
 Company Murfin Drilling Co. Inc. Elevation 3002 KB 2996 GL
 Address 205 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16 Rge. 32 Co. Scott State KS

Interval Tested 4024 - 4065 Zone Tested LKC B-D
 Anchor Length 41 Drill Pipe Run 3765 Mud Wt. 8.9
 Top Packer Depth 4061 Drill Collars Run 265 Vis 54
 Bottom Packer Depth 4065 Wt. Pipe Run --- WL 5.6
 Total Depth 4065 Chlorides 2400 ppm System LCM 6

Blow Description IF-B.O.B. 24mins
ISI-Bled off for 5mins-Dead No Return Blow
FF-B.O.B. - 44mins
FST-Bled off for 5mins-Dead No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>620</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
<u>320</u>	<u>MCW</u>			<u>60</u>	<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 940 BHT 116 Gravity --- API RW 130 @ 81 °F Chlorides 4200 ppm

- (A) Initial Hydrostatic 2001
- (B) First Initial Flow 34
- (C) First Final Flow 241
- (D) Initial Shut-In 1060
- (E) Second Initial Flow 299
- (F) Second Final Flow 468
- (G) Final Shut-In 1054
- (H) Final Hydrostatic 1898

- Test 1250
- Jars
- Safety Joint 75
- Circ Sub N/C
- Hourly Standby
- Mileage 32 RIT 49.60
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1374.60

T-On Location 11:02
 T-Started 11:58
 T-Open 14:07
 T-Pulled 18:07
 T-Out 20:09
 Comments Oil spots Top of tool

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1374.60
 MP/DST Disc't

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

Approved By R. Hendrix Our Representative [Signature]

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47043

Well Name & No. Kohrs #1-9 Test No. 2 Date 8/14/12
 Company Murfin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE 300 Wichita, Ks 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16 S Rge. 32 W Co. Scott State KS

Interval Tested 4220-4280 Zone Tested Lensing "L5K"
 Anchor Length 60' Drill Pipe Run 3955 Mud Wt. 9.1
 Top Packer Depth 4216 Drill Collars Run 265 Vis 67
 Bottom Packer Depth 4220 Wt. Pipe Run Ø WL 6.0
 Total Depth 4280 Chlorides 2000 ppm System LCM 7
 Blow Description 7 1/2" Blow.
No Return.
Bob @ 56 min.
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>Feet of Wcm</u>			<u>20</u>	<u>80</u>
<u>120</u>	<u>Feet of Wcm</u>			<u>40</u>	<u>60</u>
<u>120</u>	<u>Feet of MCW</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 450 BHT 122 Gravity — API RW 1.59 @ 66 °F Chlorides 3100 ppm

(A) Initial Hydrostatic 2105 Test 1250 T-On Location 20:50
 (B) First Initial Flow 18 Jars _____ T-Started 21:41
 (C) First Final Flow 140 Safety Joint 75 T-Open 23:35
 (D) Initial Shut-In 1135 Circ Sub N/C T-Pulled 3:37
 (E) Second Initial Flow 141 Hourly Standby _____ T-Out 5:41
 (F) Second Final Flow 221 Mileage 36 R/T 49.60 Comments _____
 (G) Final Shut-In 1127 Sampler _____
 (H) Final Hydrostatic 1996 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1374.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1374.60

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47044

Well Name & No. Kohcs #1-9 Test No. 3 Date 8/15/12
 Company Murfin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4308-4340 Zone Tested LKC "L"
 Anchor Length 32' Drill Pipe Run 4049 Mud Wt. 9.2
 Top Packer Depth 4304 Drill Collars Run 265 Vis 49
 Bottom Packer Depth 4308 Wt. Pipe Run Ø WL 7.2
 Total Depth 4340 Chlorides 2300 ppm System LCM S

Blow Description Bob @ 4 min.
No Return.
Bob @ 8 min.
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>230</u>	<u>Feet of OWCW</u>	<u>10</u>	<u>30</u>	<u>60</u>	<u>0</u>
<u>320</u>	<u>Feet of OMCW</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>0</u>
<u>190</u>	<u>Feet of OMCW</u>	<u>5</u>	<u>85</u>	<u>10</u>	<u>0</u>
<u>440</u>	<u>Feet of OMCW</u>	<u>5</u>	<u>90</u>	<u>5</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1180 BHT 125 Gravity — API RW 1.98 @ 84 °F Chlorides 2500 ppm

(A) Initial Hydrostatic 2155 Test 1250 T-On Location 14:15
 (B) First Initial Flow 70 Jars T-Started 15:04
 (C) First Final Flow 370 Safety Joint 75 T-Open 16:49
 (D) Initial Shut-In 999 Circ Sub N/C T-Pulled 19:41
 (E) Second Initial Flow 384 Hourly Standby T-Out 22:23
 (F) Second Final Flow 533 Mileage 36 R/T 4960 Comments _____
 (G) Final Shut-In 960 Sampler Ruined Shale Packer _____
 (H) Final Hydrostatic 2120 Straddle Ruined Packer _____
 Shale Packer Extra Copies _____
 Extra Packer Extra Recorder _____
 Extra Recorder Sub Total 0
 Day Standby Total 1374.60
 Accessibility MP/DST Disc't _____
 Sub Total 1374.60

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47045

Well Name & No. Kobrs #1-9 Test No. 4 Date 8/16/12
 Company Martin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Martin #21
 Location: Sec. 9 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4417-4515 Zone Tested Marmaton - Pawnee
 Anchor Length 98' Drill Pipe Run 4143 Mud Wt. 9.4
 Top Packer Depth 4413 Drill Collars Run 265 Vis 45
 Bottom Packer Depth 4417 Wt. Pipe Run Ø WL 7.2
 Total Depth 4515 Chlorides 1800 ppm System LCM 4
 Blow Description Packer failure tried to reset twice and didnt hold

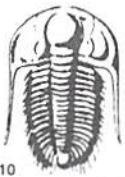
Rec	Feet of	%gas	%oil	%water	%mud
<u>265</u>	<u>M (oil spots)</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 265 BHT — Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2238 Test 1050 T-On Location 20:40
 (B) First Initial Flow N/A Jars T-Started 21:21
 (C) First Final Flow N/A Safety Joint 75 T-Open 23:30
 (D) Initial Shut-In N/A Circ Sub N/C T-Pulled 23:30
 (E) Second Initial Flow N/A Hourly Standby T-Out 1:18
 (F) Second Final Flow N/A Mileage 36 R/T 49.60 Comments
 (G) Final Shut-In N/A Sampler
 (H) Final Hydrostatic 2214 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1174.60
 Accessibility MP/DST Disc't
 Sub Total 1174.60

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47046

Well Name & No. Kohrs #1-9 Test No. 5 Date 8/17/12
 Company Murfin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4385-4515 Zone Tested Marmaton - Pawnee
 Anchor Length 130' Drill Pipe Run 4112 Mud Wt. 9.4
 Top Packer Depth 4381 Drill Collars Run 265 Vis 45
 Bottom Packer Depth 4385 Wt. Pipe Run Ø WL 72
 Total Depth 4515 Chlorides 1800 ppm System LCM 4

Blow Description Mis Run

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	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test 1050 T-On Location 20:40 8/16/12
 (B) First Initial Flow _____ Jars _____ T-Started 1:47
 (C) First Final Flow N/A Safety Joint 75 T-Open _____
 (D) Initial Shut-In _____ Circ Sub N/C T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 4:19
 (F) Second Final Flow _____ Mileage ~~36/RT~~ Comments MIS run Hit
 (G) Final Shut-In _____ Sampler _____ Bridge and couldn't go any
 (H) Final Hydrostatic _____ Straddle _____ Further
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open _____ Extra Packer _____ Sub Total 0
 Initial Shut-In N/A Extra Recorder _____ Total 1375
 Final Flow _____ Day Standby _____ MP/DST Disc't _____
 Final Shut-In _____ Accessibility _____
 Sub Total 1375

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47047

4/10

Well Name & No. Kohrs #1-9 Test No. 6 Date 8/17/12
 Company Murfin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16S Rge. 32W Co. Scott State KS

Interval Tested 4385 - 4515 Zone Tested Murman - Pawnee
 Anchor Length 130 Drill Pipe Run 4113 Mud Wt. 9.2
 Top Packer Depth 4381 Drill Collars Run 265 Vis 60
 Bottom Packer Depth 4385 Wt. Pipe Run Ø WL 7.2
 Total Depth 4515 Chlorides 1800 ppm System LCM 7

Blow Description 2 1/2" Blow.
NO Return.
3" Blow.
NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Feet of MCO</u>	<u>70</u>		<u>30</u>	
<u>60</u>	<u>Feet of OCM</u>	<u>30</u>		<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2179</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>9:45</u>
(B) First Initial Flow	<u>24</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>9:57</u>
(C) First Final Flow	<u>36</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>12:00</u>
(D) Initial Shut-In	<u>1071</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>16:01</u>
(E) Second Initial Flow	<u>48</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>18:09</u>
(F) Second Final Flow	<u>61</u>	<input checked="" type="checkbox"/> Mileage	<u>36 R/T</u> 49.60	Comments	
(G) Final Shut-In	<u>1009</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2140</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input checked="" type="checkbox"/> Shale Packer	<u>250</u>	<input checked="" type="checkbox"/> Ruined Packer	<u>320</u>
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>320</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Day Standby		Total	<u>2194.60</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1874.60</u>		

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **47048**

4/10

Well Name & No. Kohrs #1-9 Test No. 7 Date 8/18/12
 Company Murfin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE Wichita, Ks 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16 S Rge. 32 W Co. Scott State Ks

Interval Tested 4561-4628 Zone Tested Johnson + Atoka
 Anchor Length 67' Drill Pipe Run 4302 Mud Wt. 9.3
 Top Packer Depth 4557 Drill Collars Run 265 Vis 58
 Bottom Packer Depth 4561 Wt. Pipe Run Ø WL 6.8
 Total Depth 4628 Chlorides 1700 ppm System LCM 7
 Blow Description 7" Blow.
No Return.
6 1/2" Blow
No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>0.1</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>60</u>	<u>GMCO</u>	<u>5</u>	<u>60</u>	<u>35</u>	<u>0</u>
<u>120</u>	<u>GMCO</u>	<u>10</u>	<u>60</u>	<u>30</u>	<u>0</u>
<u>60</u>	<u>ogcm</u>	<u>20</u>	<u>10</u>	<u>70</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 245 BHT 123 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2281</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:35</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:24</u>
(C) First Final Flow <u>65</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:26</u>
(D) Initial Shut-In <u>970</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>18:28</u>
(E) Second Initial Flow <u>79</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:32</u>
(F) Second Final Flow <u>118</u>	<input checked="" type="checkbox"/> Mileage <u>36 R/T</u> 49.60	Comments
(G) Final Shut-In <u>728</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2185</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1624.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1624.60</u>	

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47049

Well Name & No. Kohrs #1-9 Test No. 8 Date 8/19/12
 Company Murfin Drilling Co. Inc Elevation 3007 KB 2996 GL
 Address 205 N Water STE Wichita, Ks 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #21
 Location: Sec. 9 Twp. 16S Rge. 32W Co. Scott State Ks

Interval Tested 4623-4666 Zone Tested Morrow sand
 Anchor Length 43' Drill Pipe Run 4364 Mud Wt. 9.4
 Top Packer Depth 4619 Drill Collars Run 265 Vis SS
 Bottom Packer Depth 4623 Wt. Pipe Run Ø WL 8.0
 Total Depth 4666 Chlorides 2000 ppm System LCM 5
 Blow Description 2" Blow.
No Return.
No Blow.
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud (oil spots)</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 120 BHT 122 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2352</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:25</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:48</u>
(C) First Final Flow <u>56</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:02</u>
(D) Initial Shut-In <u>866</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>12:04</u>
(E) Second Initial Flow <u>65</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:07</u>
(F) Second Final Flow <u>76</u>	<input checked="" type="checkbox"/> Mileage <u>36 R/T</u> 49.60	Comments
(G) Final Shut-In <u>758</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2330</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1624.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1624.60</u>	

Approved By [Signature] Our Representative [Signature]

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PO Box 93999
Southlake, TX 76092

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

*acet.
Prod: LIZH*

INVOICE

Invoice Number: 132260
Invoice Date: Aug 9, 2012
Page: 1



Bill To:
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Kohes #1-9	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 9, 2012	9/8/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	16.25	2,762.50
6.00	MAT	Chloride	58.20	349.20
178.50	SER	Cubic Feet	2.10	374.85
246.90	SER	Ton Mileage	2.35	580.22
1.00	SER	Surface	1,125.00	1,125.00
30.00	SER	Pump Truck Mileage	7.00	210.00
1.00	SER	Manifold Swedge Rental	200.00	200.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	D J Gray		

OKM

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

\$ 2002.61

ONLY IF PAID ON OR BEFORE
Sep 3, 2012

Subtotal	5,721.77
Sales Tax	258.27
Total Invoice Amount	5,980.04
Payment/Credit Applied	
TOTAL	5,980.04

PO Box 93999
Southlake, TX 76092

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

PROD COPY

INVOICE

Invoice Number: 132460

Invoice Date: Aug 20, 2012

Page: 1

acct. Prod-LizH

Bill To:
Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Kohrs #1-9	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Aug 20, 2012	9/19/12

Quantity	Item	Description	Unit Price	Amount
174.00	MAT	Class A Common	16.25	2,827.50
116.00	MAT	Pozmix	8.50	986.00
10.00	MAT	Gel	21.25	212.50
72.00	MAT	Flo Seal	2.70	194.40
311.46	SER	Cubic Feet	2.10	654.06
390.14	SER	Ton Mileage	2.35	916.85
1.00	SER	Plug to Abandon	1,250.00	1,250.00
30.00	SER	Pump Truck Mileage	7.00	210.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	CEMENTER	LaRene Wentz		

Account LD203 5403.18
3. 4228.0001
PTA - 1-9

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

\$2579.95

ONLY IF PAID ON OR BEFORE
Sep 14, 2012

Subtotal	7,371.31
Sales Tax	611.82
Total Invoice Amount	7,983.13
Payment/Credit Applied	
TOTAL	7,983.13

(2579.95)

5403.18

ALLIED OIL & GAS SERVICES, LLC 056733

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Cakley

DATE <u>8-20-12</u>	SEC. <u>9</u>	TWP. <u>16</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00pm</u>	JOB FINISH <u>8:00pm</u>
LEASER <u>Kohrs</u>	WELL # <u>1-9</u>	LOCATION <u>Cakley S to 82+8500</u>			COUNTY <u>SCOTT</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		LOCATION <u>1 E 34N Wingo</u>					

CONTRACTOR <u>Murfin 21</u>	OWNER <u>Same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4753'</u>
CASINO SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>8420'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT	
AMOUNT ORDERED <u>290 sks 6040</u>	
<u>480 gal 1/4 Flo-seal</u>	
COMMON <u>174 sks @ 16.25</u>	<u>2827.50</u>
POZMIX <u>116 sks @ 8.50</u>	<u>986.00</u>
GEL <u>10 sks @ 21.25</u>	<u>212.50</u>
CHLORIDE	@
ASC	@

EQUIPMENT				
PUMP TRUCK # <u>431</u>	CEMENTER <u>Andrew Fishard</u>	<u>Flo-seal 72 #</u>	@ <u>2.70</u>	<u>194.40</u>
	HELPER <u>Dave Keteffer</u>		@	
BULK TRUCK # <u>540</u>	DRIVER <u>Larene Winters</u>		@	
BULK TRUCK #	DRIVER		@	

HANDLING <u>311,459 cu/ft @ 2.10</u>	<u>6541.06</u>
MILEAGE <u>2135.70/mile @ 13.00</u>	<u>27764.70</u>
	<u>290.14</u>
	TOTAL <u>5791.31</u>

REMARKS:

50 sks @ 2430'

80 sks @ 1710'

50 sks @ 840'

40 sks @ 240'

20 sks @ 60'

20 sks mouse hole

20 sks Rat hole

thank you

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB <u>2430'</u>	
PUMP TRUCK CHARGE	<u>1250.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>30 miles @ 7.00</u>	<u>210.00</u>
MANIFOLD	@
<u>Light vehicle</u>	@ <u>4.00</u>
	@

TOTAL 1580.00

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.

PRINTED NAME Susan J. Waco

SIGNATURE [Signature]

SALES TAX (If Any) 611.81

TOTAL CHARGES 7,371.31

DISCOUNT 35 2579.95 IF PAID IN 30 DAYS