



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1118316
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: _____



1118316

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
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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> <i>(Submit ACO-4)</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

February 19, 2013

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

Re: ACO1
API 15-193-20867-00-00
Kruto 2-29
SW/4 Sec.29-10S-34W
Thomas 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

	MDCI Kruto #2-29 2593' FSL 1138' FWL Sec. 29-T10S-R34W 3250' KB						MDCI Kruto #1-29 1950' FSL 1800' FWL Sec. 29-T10S-R34W 3258' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2741	+509	+5	2746	+504	Flat	2754	+504
B/Anhydrite	2771	+479	+2	2773	+477	Flat	2781	+477
Topeka	3907	-657	+1	3909	-659	-1	3916	-658
Heebner	4121	-871	+3	4126	-876	-2	4132	-874
Lansing	4159	-909	+5	4168	-918	-4	4172	-914
Stark	4391	-1141	-1	4393	-1143	-3	4398	-1140
Pawnee	4584	-1334	Flat	4591	-1341	-7	4592	-1334
Lwr Pawn	4621	-1371	-1	4627	-1377	-7	4628	-1370
Fort Scott	4642	-1392	-3	4646	-1396	-7	4647	-1389
Johnson Zn	4715	-1465	-2	4721	-1471	-8	4721	-1463
Mississippi	4810	-1560	-18	4814	-1564	-22	4800	-1542
RTD	4870						4915	
LTD				4875			4904	

Thomas J. Funk
Petroleum Geologist

Geologists Report
Drilling Time and Sample Log

OPERATOR **Murfin Drilling Co., Inc**
LEASE **Kruto**
WELL NO **#2-29**

FIELD **Field Extension API**
LOCATION **2593' FSL & 1138' FWL**
SEC. **29** TWP. **10S** RGE. **34W**

COUNTY **Thomas** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co** Rig #20
COMM **11/16/2012** COMP **11/16/2012**
RTD **4870** LOG TD **4875**
SAMPLES SAVED FROM **3810** TO TD
DRILLING TIME KEPT FROM **3810** TO TD
SAMPLES EXAMINED FROM **3810** TO TD

ELEVATION **KB 3250'**
DF **GL 3239'**
Measurements Are All From **KB**

CASING RECORD
SURFACE **8 5/8" at 270'0" w/230x**
PRODUCTION

GEOLOGICAL SUPERVISION FROM **3920** TO TD
MUD UP **3400** TYPE MUD **Chemical**

ELECTRICAL SURVEYS
Pioneer Energy Services
DIL
MEL
CNL/CDL BHCS

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anyndite	2746 (-434)	2741 (-439)	Frlt
B/Anyndite	2773 (-447)	2771 (-449)	Frlt
Topoka	3909 (-659)	3925 (-667)	-1
Heebner Sh	4126 (-876)	4143 (-885)	-2
Lansing	4168 (-918)	4184 (-926)	-3
Murder Creek	4314 (-1064)	4323 (-1065)	-8
Stark Sh	4393 (-1143)	4407 (-1149)	-3
Marmaton	4484 (-1234)	4497 (-1239)	-6
Pawnee	4591 (-1341)	4604 (-1346)	-7
Cherokee Sh	4677 (-1427)	4685 (-1427)	-7
Johnson Zone	4721 (-1471)	4729 (-1471)	-8
Mississippi	4814 (-1564)	4809 (-1551)	-22

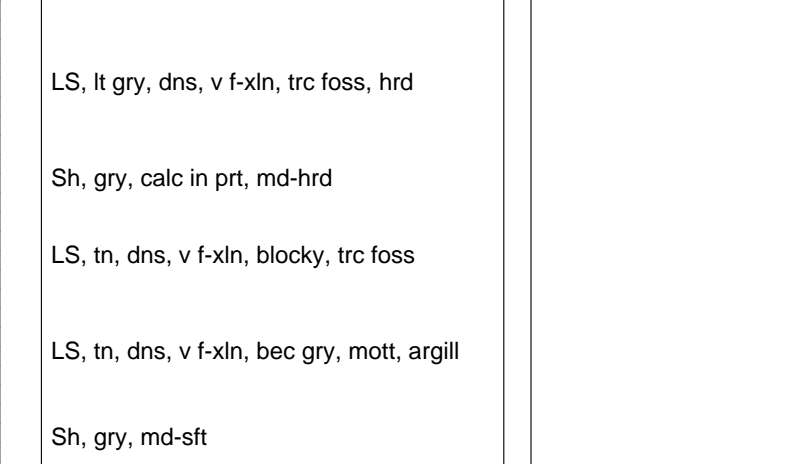


REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Drilling Co. #1-29 Kruto
950' FSL & 1800' FWL sec. 29-10S-34W, Thomas Co. KS

Date	Depth	NO	Size	Make	Type	Depth Out	Feet	Hours
11/8/12	Stud	1	1 1/4"	GMS	RR	270	270	4
11/8/12	380'	2	7-7/8"	HTC	DP606F	3731	3461	60
11/7/12	2000'	3	7-7/8"	HTC	GX22S	4870	1139	74
11/8/12	3235'							
11/9/12	3825'							
11/10/12	4245'							
11/11/12	4300'							
11/12/12	4395'							
11/13/12	4515'							
11/14/12	4643'							
11/15/12	4740'							
11/16/12	4870' TD							

Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was recommended that casing be run in the #2-29 Kruto for further testing.
Thomas Funk
Petroleum Geologist

LEGEND

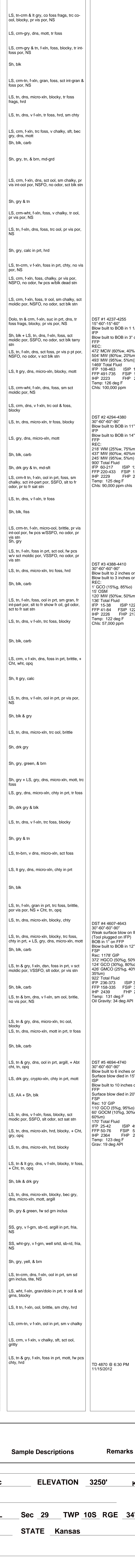


Lithology

DRILLING TIME IN MINUTES PER FOOT

Sample Descriptions

Remarks



Lithology

DRILLING TIME IN MINUTES PER FOOT

Sample Descriptions

Remarks

COMPANY **Murfin Drilling Co., Inc** ELEVATION **3250'** **KB**
LEASE **#2-29** **Kruto**

LOCATION **2593' FSL & 1138' FWL** Sec **29** TWP **10S** RGE **34W**

COUNTY **Thomas** STATE **Kansas**

TD 4870 @ 6:30 PM
11/15/2012



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Tom Funk

Kruto #2-29

S29-10s-24w Thomas,KS

Start Date: 2012.11.10 @ 14:06:00

End Date: 2012.11.10 @ 23:38:54

Job Ticket #: 48486 DST #: 1

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

Printed: 2012.11.20 @ 15:26:42

Murfin Drilling Co. S29-10s-24w Thomas,KS Kruto #2-29 DST # 1 LKC #1 2012.11.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48486

DST#: 1

Test Start: 2012.11.10 @ 14:06:00

GENERAL INFORMATION:

Formation: **LKC 'F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:23:24

Time Test Ended: 23:38:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 4237.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 3250.00 ft (KB)

Total Depth: 4255.00 ft (KB) (TVD)

3239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 734.81 psig @ 4242.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.10

End Date: 2012.11.10

Last Calib.: 2012.11.10

Start Time: 14:06:02

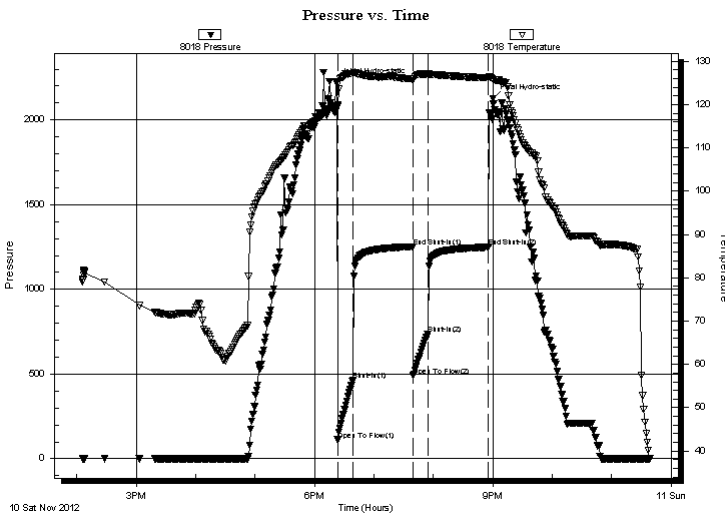
End Time: 23:38:53

Time On Btm: 2012.11.10 @ 18:22:14

Time Off Btm: 2012.11.10 @ 21:00:04

TEST COMMENT: B.O.B. @ 1 1/2 min.
No return.
B.O.B. @ 2 1/2 min.
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.82	119.83	Initial Hydro-static
2	108.38	119.90	Open To Flow (1)
17	463.44	127.23	Shut-In(1)
77	1252.47	125.97	End Shut-In(1)
78	490.77	125.59	Open To Flow (2)
92	734.81	127.00	Shut-In(2)
154	1249.18	126.21	End Shut-In(2)
158	2127.50	125.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
493.00	MW 5m 95w	5.29
504.00	MW 20m 80w	7.07
472.00	MW 40m 60w	6.62

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48486

DST#: 1

Test Start: 2012.11.10 @ 14:06:00

Tool Information

Drill Pipe:	Length: 4049.00 ft	Diameter: 3.80 inches	Volume: 56.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4237.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4218.00	
Shut In Tool	5.00			4223.00	
Hydraulic tool	5.00			4228.00	
Packer	5.00			4233.00	20.00 Bottom Of Top Packer
Packer	4.00			4237.00	
Stubb	1.00			4238.00	
Perforations	4.00			4242.00	
Recorder	0.00	8018	Inside	4242.00	
Recorder	0.00	6751	Outside	4242.00	
Perforations	10.00			4252.00	
Bullnose	3.00			4255.00	18.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

S29-10s-24w Thomas,KS

Kruto #2-29

Job Ticket: 48486

DST#: 1

Test Start: 2012.11.10 @ 14:06:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.17 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 100000 ppm

Recovery Information

Recovery Table

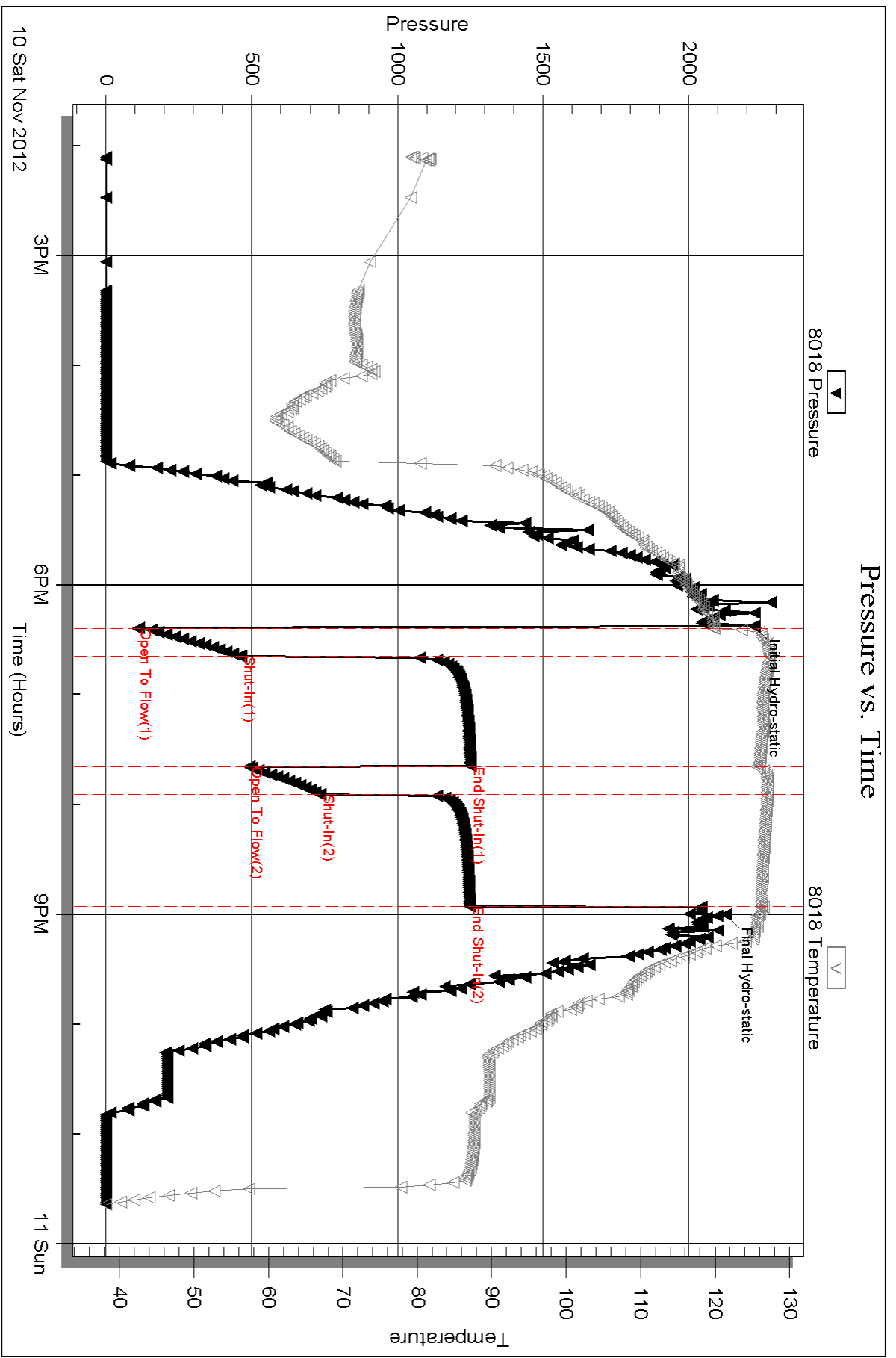
Length ft	Description	Volume bbl
493.00	MW 5m 95w	5.294
504.00	MW 20m 80w	7.070
472.00	MW 40m 60w	6.621

Total Length: 1469.00 ft Total Volume: 18.985 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .148 @ 37 Degrees F = 100000 PPM

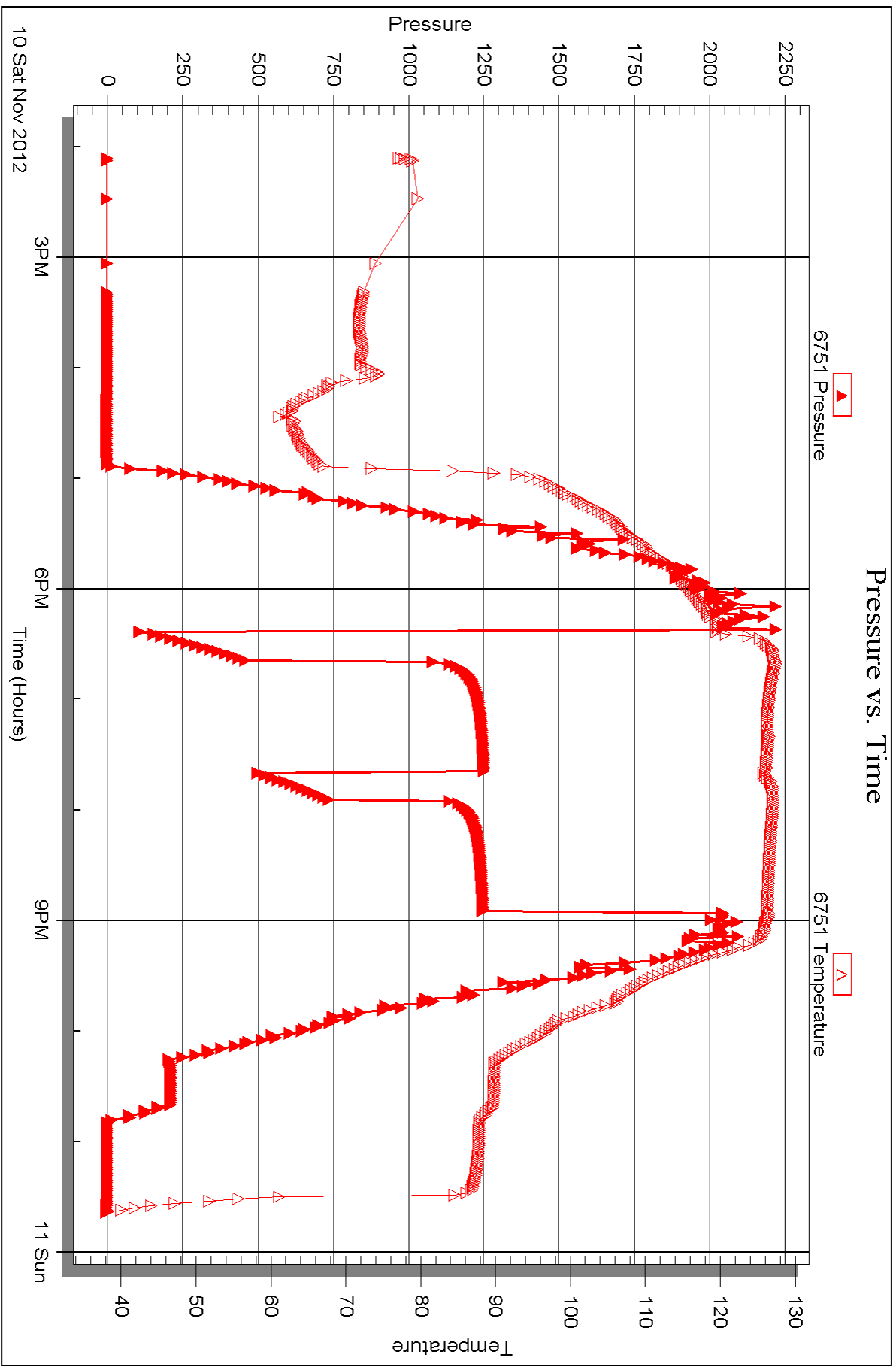


Serial #: 6751

Outside Murfin Drilling Co.

Krulo #2-29

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Tom Funk

Kruto #2-29

S29-10s-24w Thomas,KS

Start Date: 2012.11.11 @ 18:21:00

End Date: 2012.11.12 @ 02:59:32

Job Ticket #: 48487 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.20 @ 15:25:58

Murfin Drilling Co.

S29-10s-24w Thomas,KS

Kruto #2-29

DST # 2

LKC 'H,I,J'

2012.11.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48487

DST#: 2

Test Start: 2012.11.11 @ 18:21:00

GENERAL INFORMATION:

Formation: **LKC 'H,I,J'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 20:29:03
 Tester: Chuck Smith
 Time Test Ended: 02:59:32
 Unit No: 62
 Interval: **4294.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Reference Elevations: 3250.00 ft (KB)
 Total Depth: 4380.00 ft (KB) (TVD)
 3239.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

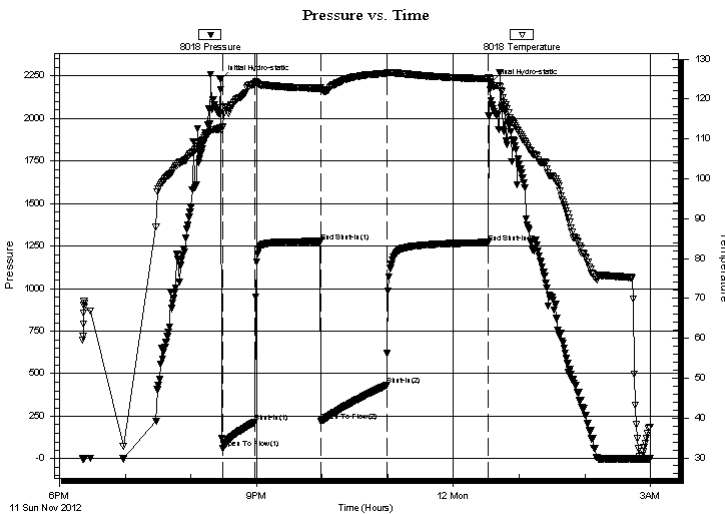
Serial #: 8018

Inside

Press @ Run Depth: 433.36 psig @ 4298.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.11 End Date: 2012.11.12 Last Calib.: 2012.11.12
 Start Time: 18:21:02 End Time: 02:59:33 Time On Btm: 2012.11.11 @ 20:26:53
 Time Off Btm: 2012.11.12 @ 00:33:03

TEST COMMENT: B.O.B. @ 11 min.
 No return.
 B.O.B. @ 14 min.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.96	112.78	Initial Hydro-static
3	59.55	112.83	Open To Flow (1)
32	217.17	123.97	Shut-In(1)
92	1277.30	122.71	End Shut-In(1)
93	219.82	122.19	Open To Flow (2)
153	433.36	126.44	Shut-In(2)
245	1271.15	125.06	End Shut-In(2)
247	2206.47	124.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	MW 5m 95w	1.82
437.00	MW 40m 60w	6.13
218.00	WM 25w 75m	3.06

* 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.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48487

DST#: 2

Test Start: 2012.11.11 @ 18:21:00

Tool Information

Drill Pipe:	Length: 4110.00 ft	Diameter: 3.80 inches	Volume: 57.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4294.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	106.00 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			4275.00	
Shut In Tool	5.00			4280.00	
Hydraulic tool	5.00			4285.00	
Packer	5.00			4290.00	20.00 Bottom Of Top Packer
Packer	4.00			4294.00	
Stubb	1.00			4295.00	
Perforations	3.00			4298.00	
Recorder	0.00	8018	Inside	4298.00	
Recorder	0.00	6751	Outside	4298.00	
Perforations	15.00			4313.00	
Change Over Sub	1.00			4314.00	
Drill Pipe	63.00			4377.00	
Bullnose	3.00			4380.00	86.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48487

DST#: 2

Test Start: 2012.11.11 @ 18:21:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 6.77 in³
Resistivity: ohm.m
Salinity: 6900.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 90000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	MW 5m 95w	1.815
437.00	MW 40m 60w	6.130
218.00	WM 25w 75m	3.058

Total Length: 900.00 ft Total Volume: 11.003 bbl

Num Fluid Samples: 0

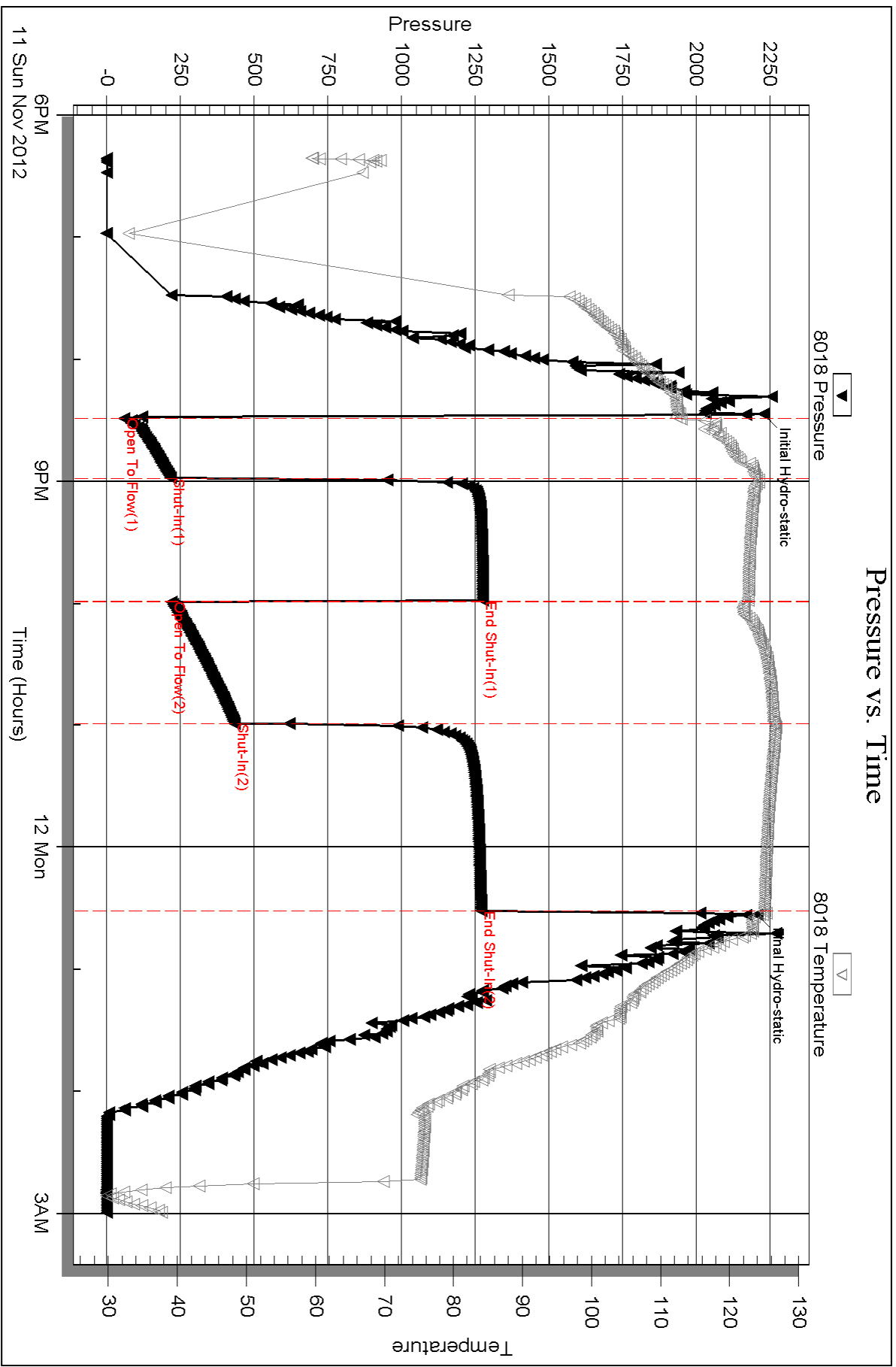
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .190 @ 33 Degrees F = 90000 PPM

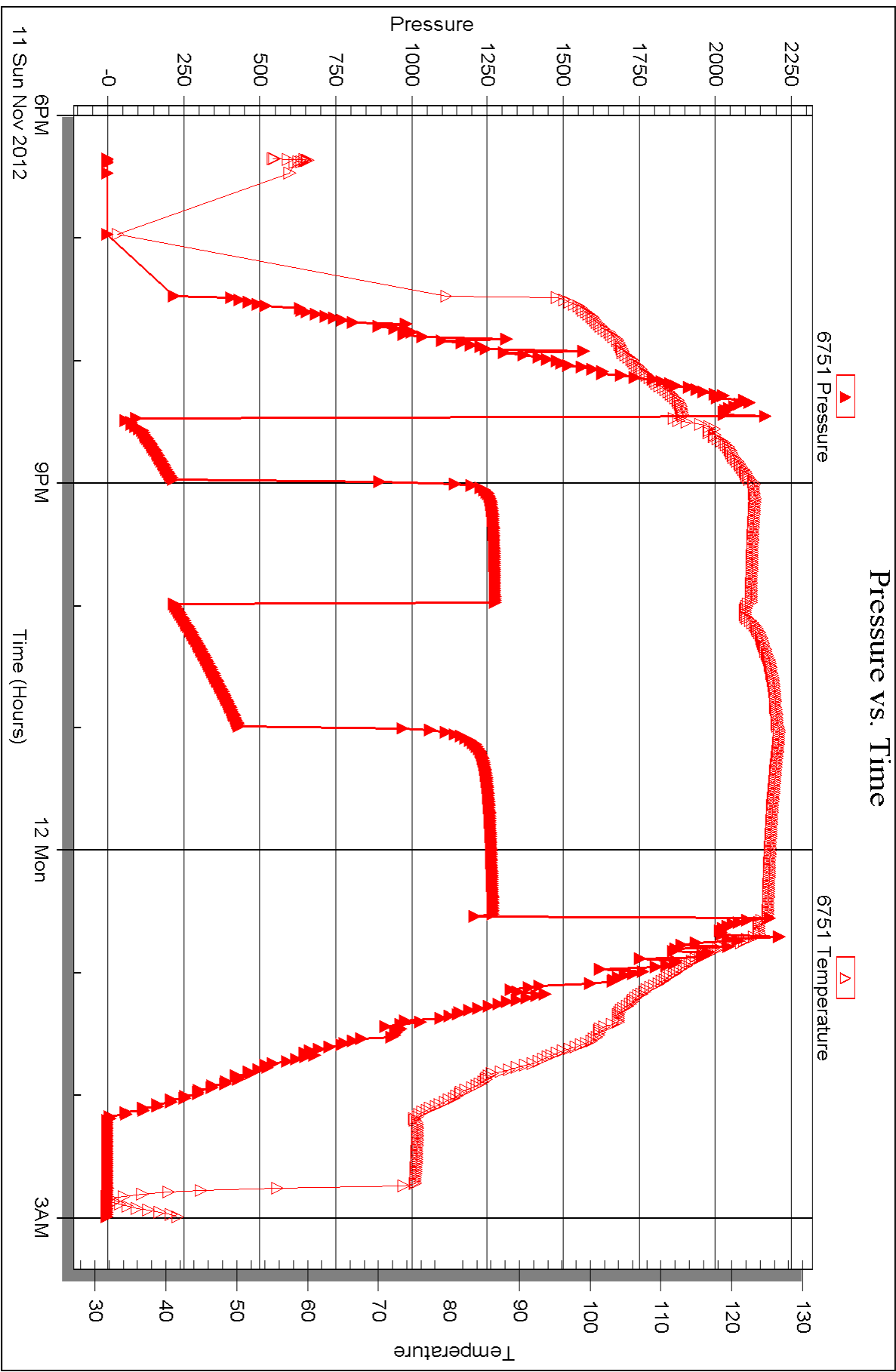


Serial #: 6751

Outside Murfin Drilling Co.

Krulo #2-29

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Tom Funk

Kruto #2-29

S29-10s-24w Thomas,KS

Start Date: 2012.11.12 @ 11:04:00

End Date: 2012.11.12 @ 19:31:22

Job Ticket #: 48488 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.20 @ 15:25:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48488

DST#: 3

Test Start: 2012.11.12 @ 11:04:00

GENERAL INFORMATION:

Formation: **LKC 'K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:02

Time Test Ended: 19:31:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4388.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 3250.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

3239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 83.70 psig @ 4392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.12

End Date:

2012.11.12

Last Calib.:

2012.11.12

Start Time: 11:04:02

End Time:

19:31:22

Time On Btm:

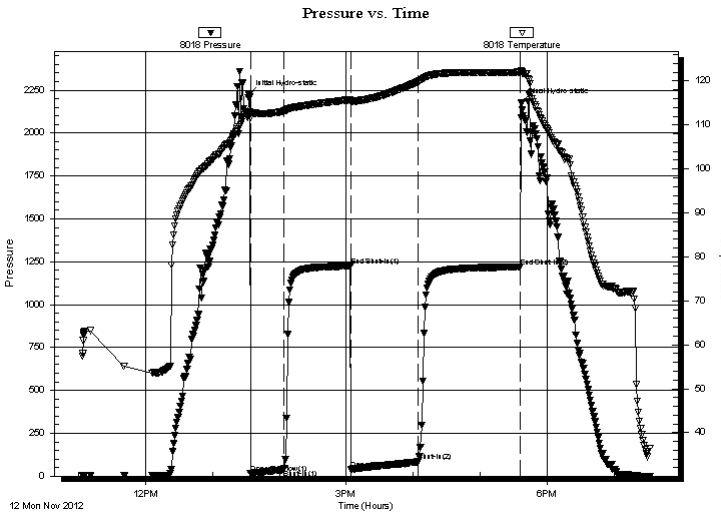
2012.11.12 @ 13:32:52

Time Off Btm:

2012.11.12 @ 17:36:42

TEST COMMENT: 2" Blow.
No return.
2 1/2" Blow.
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.32	112.92	Initial Hydro-static
2	14.97	111.79	Open To Flow (1)
31	37.90	113.10	Shut-In(1)
91	1224.08	115.76	End Shut-In(1)
92	41.46	115.28	Open To Flow (2)
152	83.70	119.87	Shut-In(2)
243	1219.72	122.01	End Shut-In(2)
244	2174.51	122.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 50m 50w	0.59
15.00	OSM 100m	0.07
1.00	GO 15g 85o	0.00

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.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48488

DST#: 3

Test Start: 2012.11.12 @ 11:04:00

Tool Information

Drill Pipe:	Length: 4205.00 ft	Diameter: 3.80 inches	Volume: 58.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4388.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 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			4369.00	
Shut In Tool	5.00			4374.00	
Hydraulic tool	5.00			4379.00	
Packer	5.00			4384.00	20.00 Bottom Of Top Packer
Packer	4.00			4388.00	
Stubb	1.00			4389.00	
Perforations	3.00			4392.00	
Recorder	0.00	8018	Inside	4392.00	
Recorder	0.00	6751	Outside	4392.00	
Perforations	15.00			4407.00	
Bullnose	3.00			4410.00	22.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48488

DST#: 3

Test Start: 2012.11.12 @ 11:04:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 6.78 in³
Resistivity: ohm.m
Salinity: 6900.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 57000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 50m 50w	0.590
15.00	OSM 100m	0.074
1.00	GO 15g 85o	0.005

Total Length: 136.00 ft Total Volume: 0.669 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .270 @ 35 Degrees F = 57000 PPM

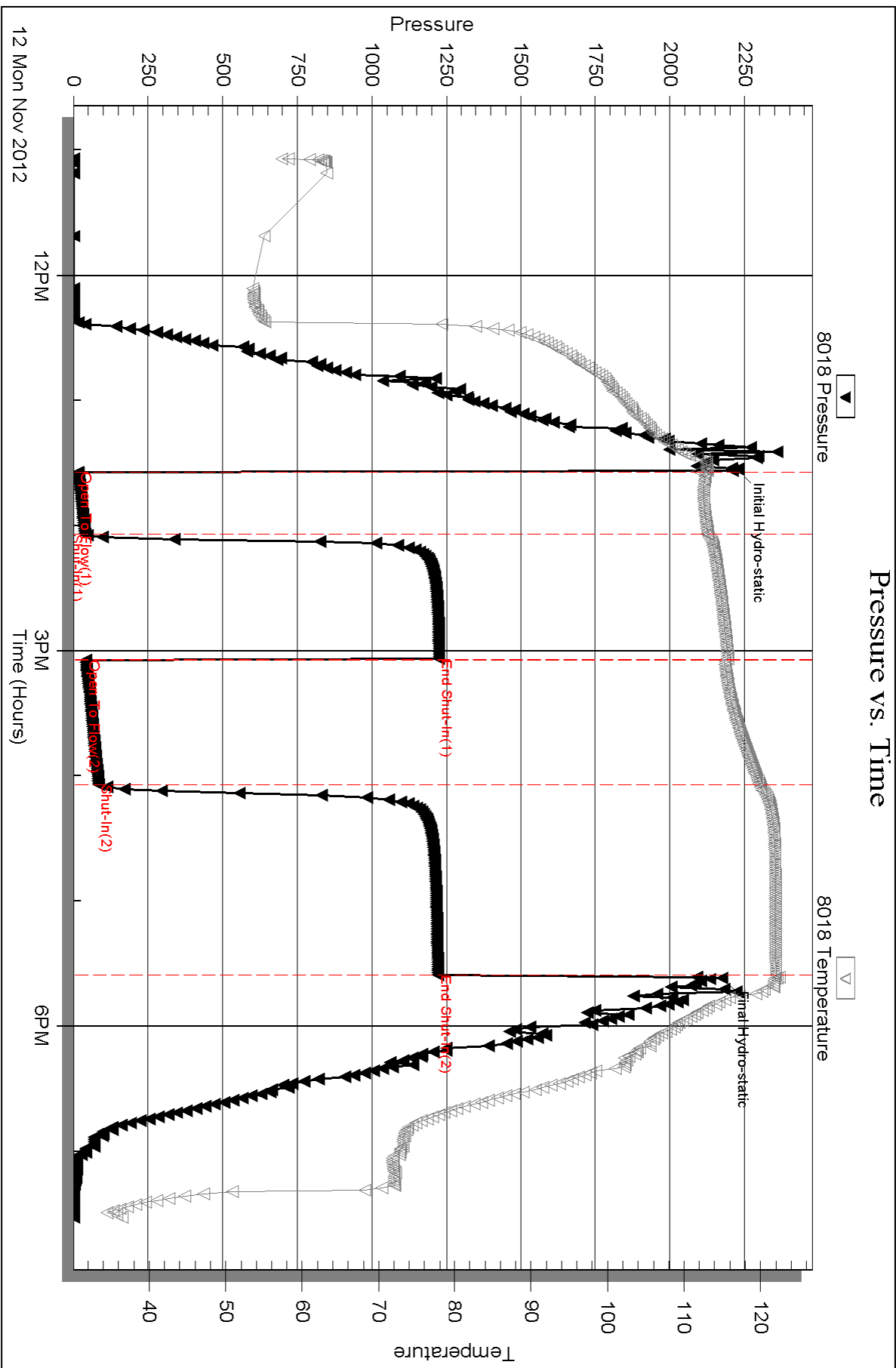
Serial #: 8018

Inside

Murfin Drilling Co.

Krulo #2-29

DST Test Number: 3

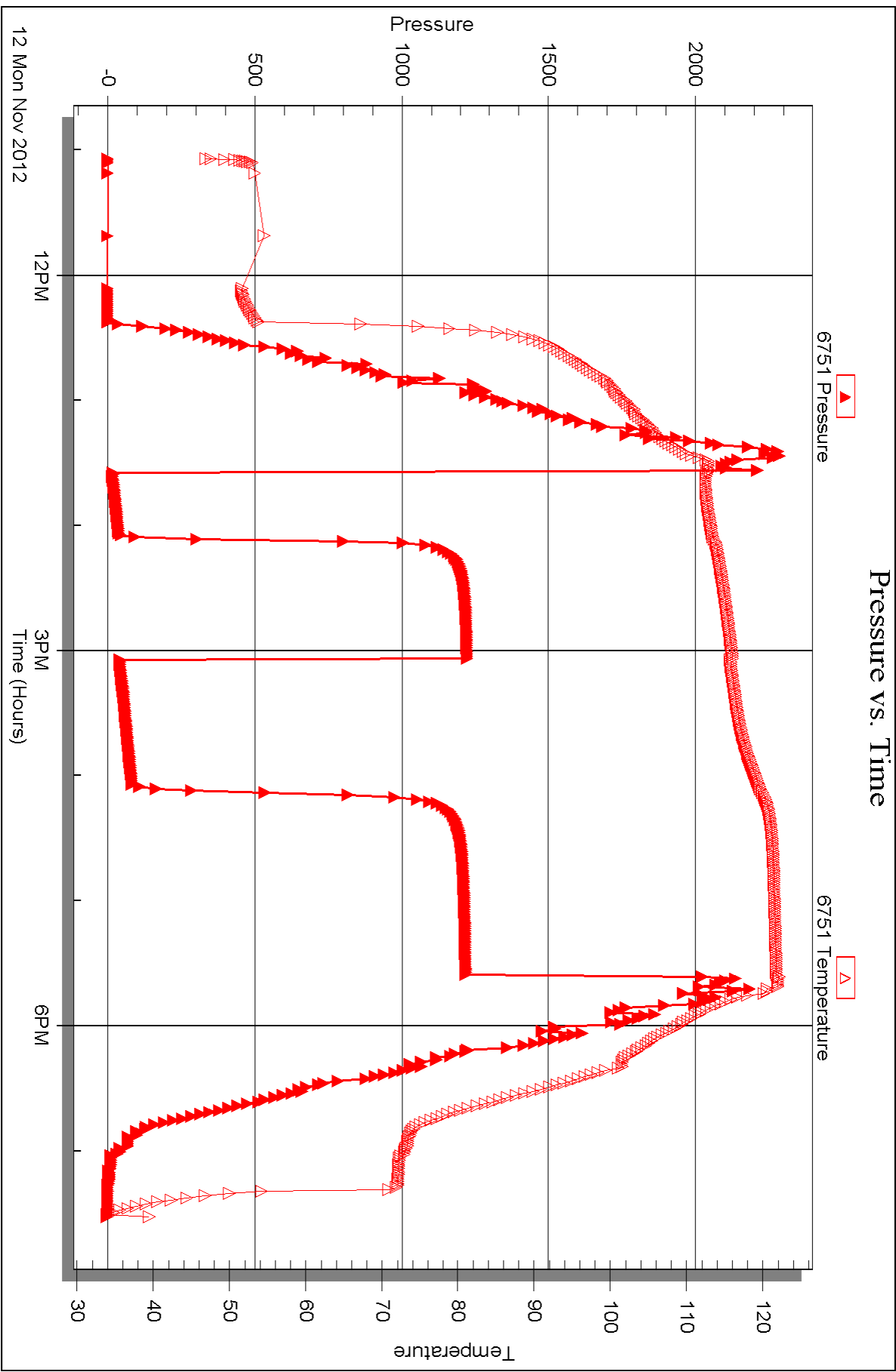


Serial #: 6751

Outside Murfin Drilling Co.

Krulo #2-29

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Tom Funk

Kruto #2-29

S29-10s-24w Thomas,KS

Start Date: 2012.11.13 @ 20:40:00

End Date: 2012.11.14 @ 05:46:50

Job Ticket #: 48489 DST #: 4

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

Printed: 2012.11.20 @ 15:24:30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48489

DST#: 4

Test Start: 2012.11.13 @ 20:40:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:43:21

Time Test Ended: 05:46:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4607.00 ft (KB) To 4643.00 ft (KB) (TVD)

Reference Elevations: 3250.00 ft (KB)

Total Depth: 4643.00 ft (KB) (TVD)

3239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 335.21 psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.13

End Date:

2012.11.14

Last Calib.:

2012.11.14

Start Time: 20:40:02

End Time:

05:46:50

Time On Btm:

2012.11.13 @ 22:41:41

Time Off Btm:

2012.11.14 @ 02:46:40

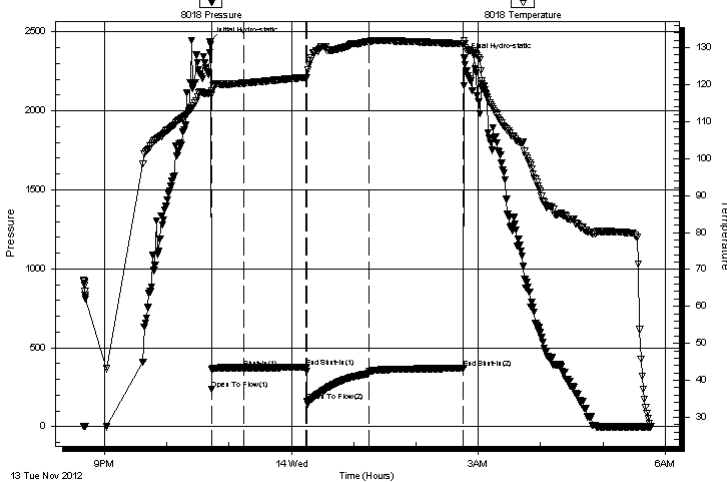
TEST COMMENT: Weak surface blow . Tool plugged.

No return.

B.O.B. @ 1 min.

B.O.B. @ 12 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2439.42	117.78	Initial Hydro-static
2	236.49	117.31	Open To Flow (1)
33	373.45	120.38	Shut-In(1)
93	376.49	121.98	End Shut-In(1)
94	158.47	121.87	Open To Flow (2)
153	335.21	131.69	Shut-In(2)
245	368.90	131.03	End Shut-In(2)
245	2334.63	131.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
426.00	GMCO 25g 35m 40o	4.35
124.00	GO 30g 70o	1.74
372.00	GO 50g 50o	5.22
0.00	2108' Weak GIP 1178' GIP	0.00

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.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48489

DST#: 4

Test Start: 2012.11.13 @ 20:40:00

Tool Information

Drill Pipe:	Length: 4426.00 ft	Diameter: 3.80 inches	Volume: 62.09 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 62.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4607.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	56.00 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			4588.00	
Shut In Tool	5.00			4593.00	
Hydraulic tool	5.00			4598.00	
Packer	5.00			4603.00	20.00 Bottom Of Top Packer
Packer	4.00			4607.00	
Stubb	1.00			4608.00	
Perforations	3.00			4611.00	
Recorder	0.00	8018	Inside	4611.00	
Recorder	0.00	6751	Outside	4611.00	
Perforations	29.00			4640.00	
Bullnose	3.00			4643.00	36.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48489

DST#: 4

Test Start: 2012.11.13 @ 20:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.96 in³
Resistivity: ohm.m
Salinity: 6800.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 34 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
426.00	GMCO 25g 35m 40o	4.354
124.00	GO 30g 70o	1.739
372.00	GO 50g 50o	5.218
0.00	2108' Weak GIP 1178' GIP	0.000

Total Length: 922.00 ft Total Volume: 11.311 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API: 32 @ 40 Degrees F = 34.

Serial #: 8018

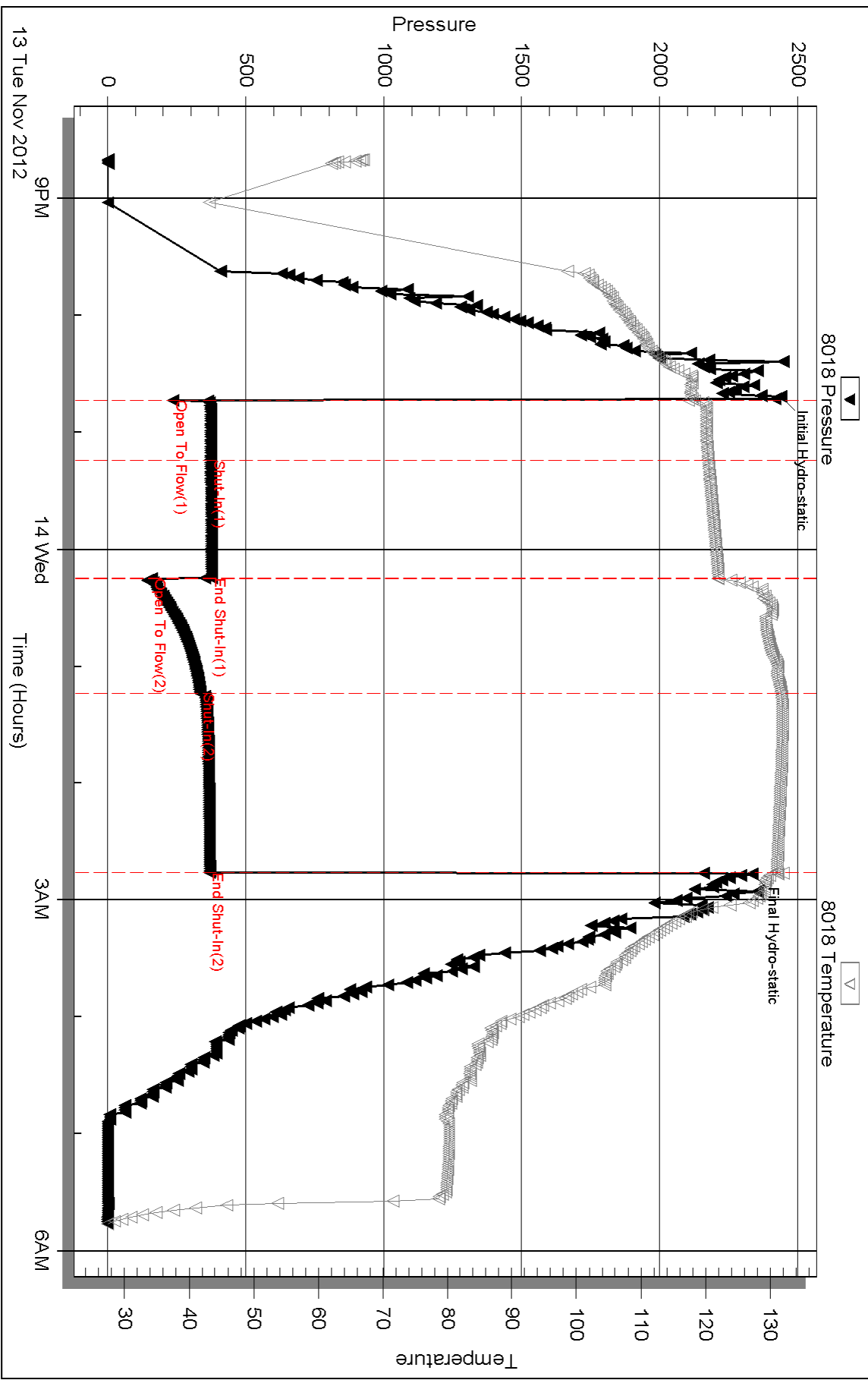
Inside

Murfin Drilling Co.

Krulo #2-29

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48489

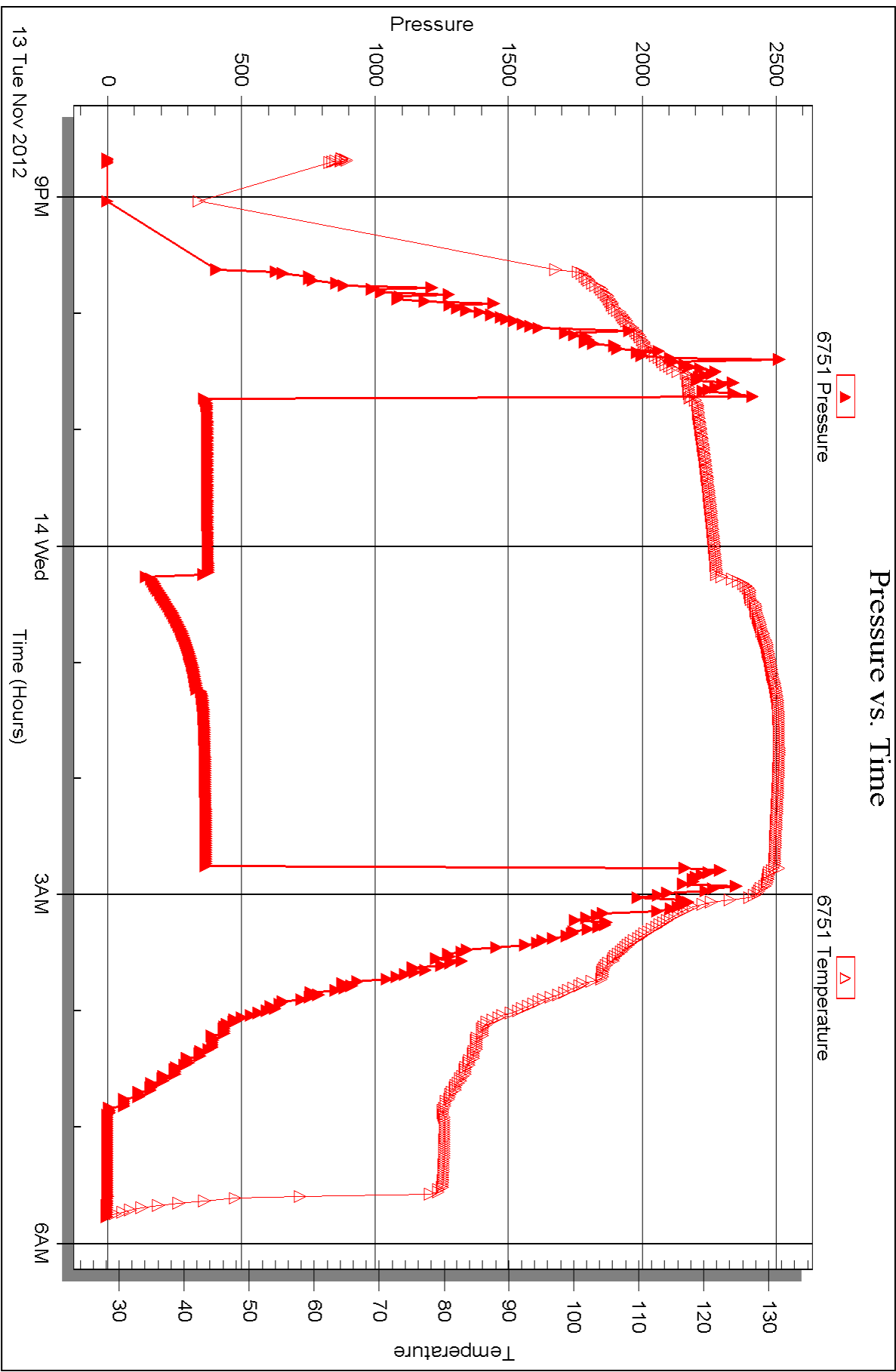
Printed: 2012.11.20 @ 15:24:34

Serial #: 6751

Outside Murfin Drilling Co.

Krulo #2-29

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Tom Funk

Kruto #2-29

S29-10s-24w Thomas,KS

Start Date: 2012.11.14 @ 21:46:00

End Date: 2012.11.15 @ 06:41:33

Job Ticket #: 48491 DST #: 5

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

Printed: 2012.11.20 @ 15:23:39

Murfin Drilling Co. S29-10s-24w Thomas,KS Kruto #2-29 DST # 5 Johnson 2012.11.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48491

DST#: 5

Test Start: 2012.11.14 @ 21:46:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:14:24

Time Test Ended: 06:41:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4694.00 ft (KB) To 4740.00 ft (KB) (TVD)

Total Depth: 4740.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3250.00 ft (KB)

3239.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8018 Inside

Press @ Run Depth: 75.80 psig @ 4698.00 ft (KB)

Start Date: 2012.11.14

End Date:

2012.11.15

Start Time: 21:46:02

End Time:

06:41:34

Capacity: 8000.00 psig

Last Calib.: 2012.11.15

Time On Btm: 2012.11.15 @ 00:13:04

Time Off Btm: 2012.11.15 @ 04:17:54

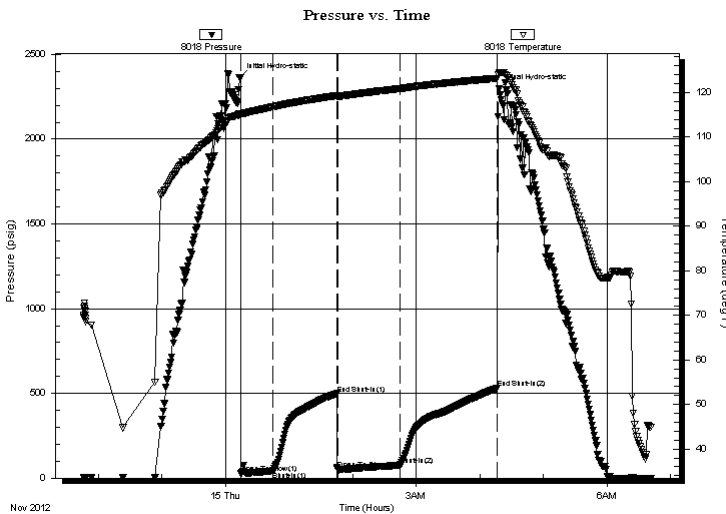
TEST COMMENT: 6" Blow .

Weak surface return died @ 15 min.

10" Blow .

Surface return died @ 20 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.05	115.15	Initial Hydro-static
2	25.41	114.92	Open To Flow (1)
32	42.32	116.77	Shut-In(1)
92	498.50	119.31	End Shut-In(1)
93	50.06	119.11	Open To Flow (2)
152	75.80	120.89	Shut-In(2)
244	530.43	123.21	End Shut-In(2)
245	2296.91	124.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 10g 30o 60m	0.30
110.00	GO 5g 95o	0.54
0.00	10' GIP	0.00

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.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48491

DST#: 5

Test Start: 2012.11.14 @ 21:46:00

Tool Information

Drill Pipe:	Length: 4525.00 ft	Diameter: 3.80 inches	Volume: 63.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4694.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 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			4675.00	
Shut In Tool	5.00			4680.00	
Hydraulic tool	5.00			4685.00	
Packer	4.00			4689.00	20.00 Bottom Of Top Packer
Packer	5.00			4694.00	
Stubb	1.00			4695.00	
Perforations	3.00			4698.00	
Recorder	0.00	8018	Inside	4698.00	
Recorder	0.00	6751	Outside	4698.00	
Perforations	6.00			4704.00	
Change Over Sub	1.00			4705.00	
Drill Pipe	31.00			4736.00	
Change Over Sub	1.00			4737.00	
Bullnose	3.00			4740.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

S29-10s-24w Thomas,KS

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Kruto #2-29

Job Ticket: 48491

DST#: 5

Test Start: 2012.11.14 @ 21:46:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 9100.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 19 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 10g 30o 60m	0.295
110.00	GO 5g 95o	0.541
0.00	10' GIP	0.000

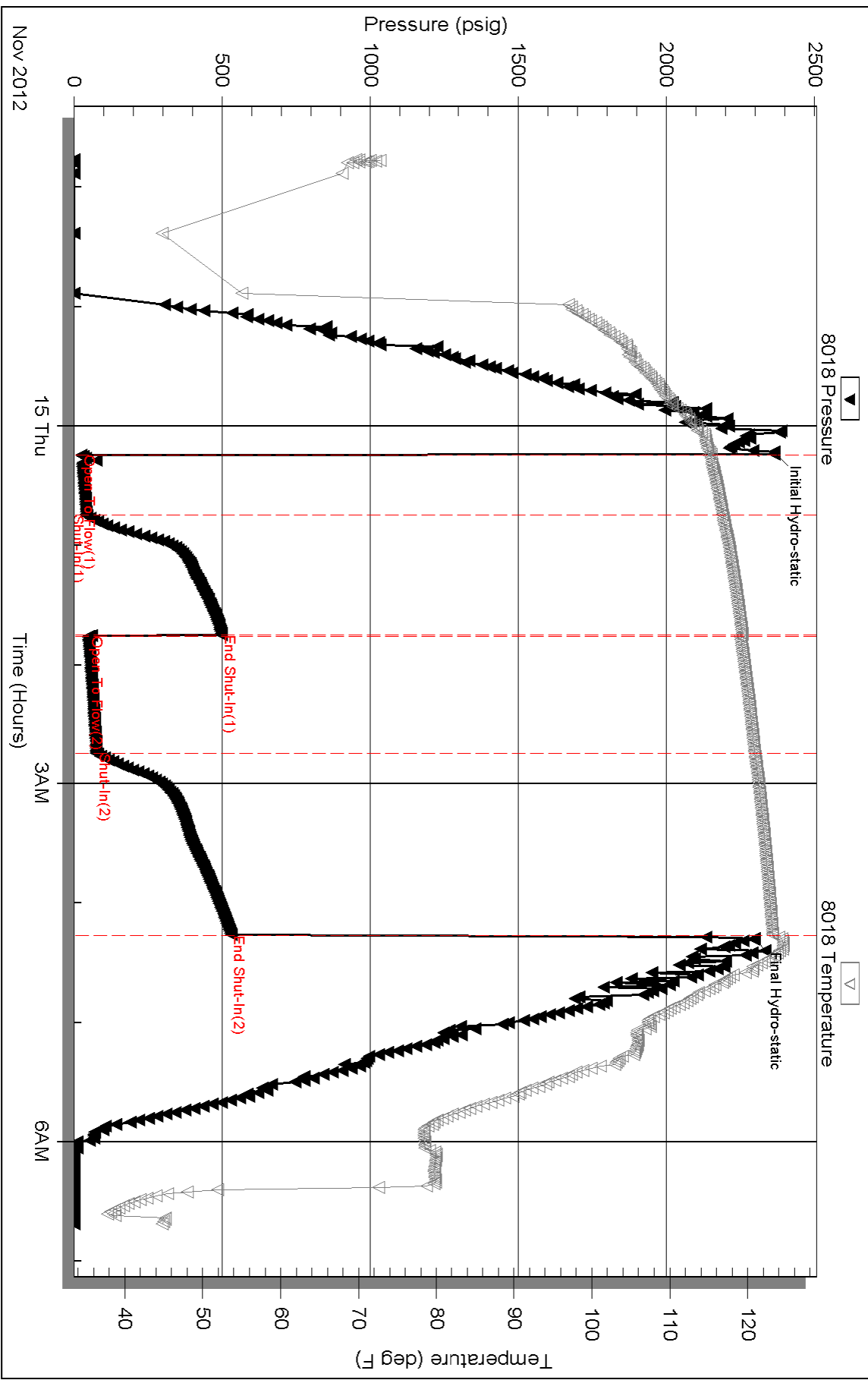
Total Length: 170.00 ft Total Volume: 0.836 bbl

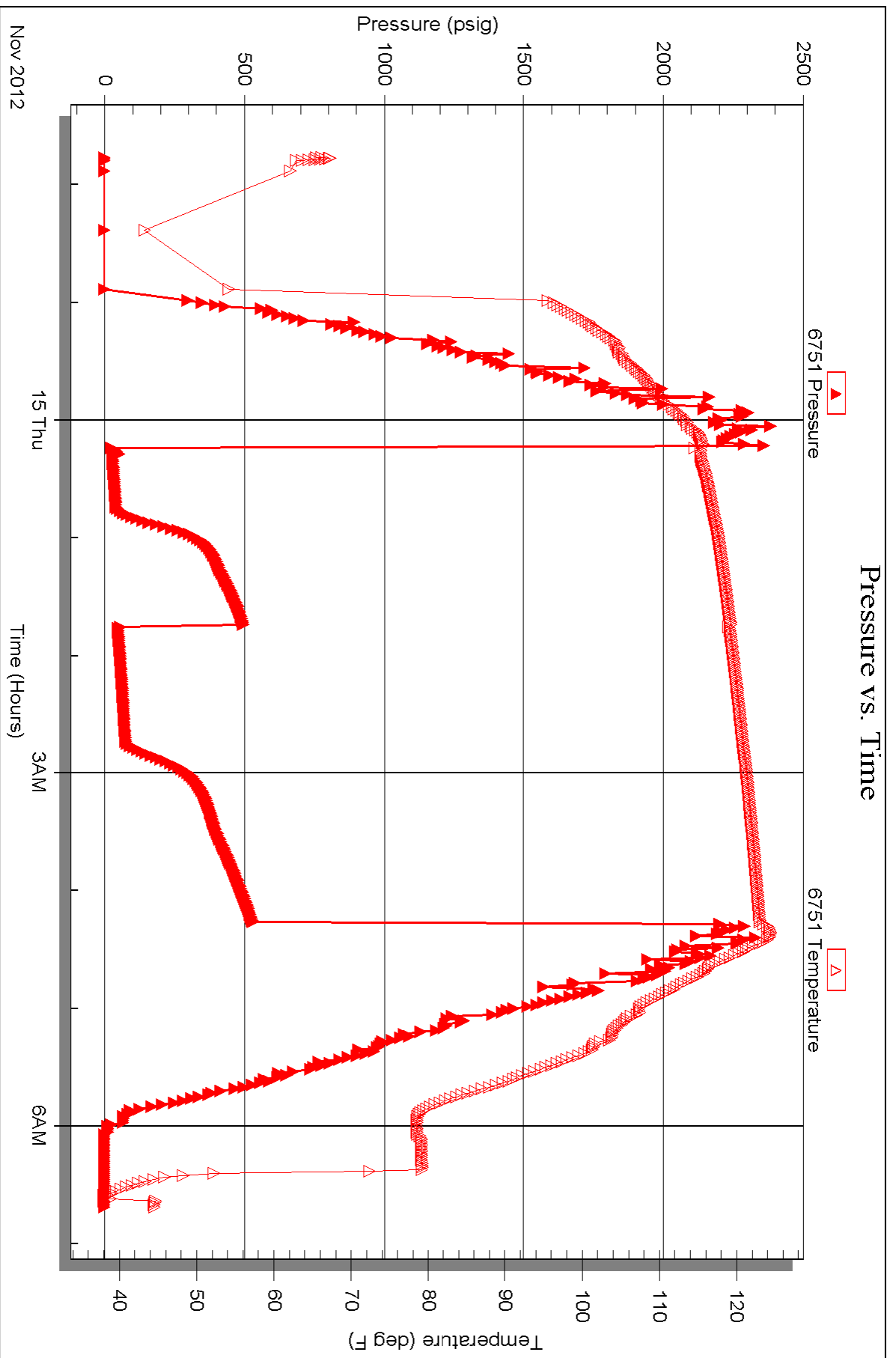
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

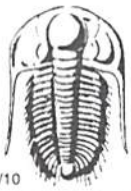
Laboratory Name: Laboratory Location:

Recovery Comments: API: 19 @ 60 Degrees F = 19

Pressure vs. Time







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48486

Well Name & No. Kuto #2-29 Test No. 1 Date 11-10-12
 Company Murfin Drilling Co. Elevation 3250 KB 3239 GL
 Address 250 N. Water St. 300 Wichita, KS 67202
 Co. Rep / Geo. Tom Funk Rig MDC #20
 Location: Sec. 29 Twp. 10s Rge. 24w Co. Thomas State Ks

Interval Tested 4237-4255 Zone Tested LKC 'F'
 Anchor Length 18 Drill Pipe Run 4049 Mud Wt. 9.1
 Top Packer Depth 4233 Drill Collars Run 178 Vis 50
 Bottom Packer Depth 4237 Wt. Pipe Run 0 WL 7.2
 Total Depth 4255 Chlorides 6000 ppm System LCM 8"
 Blow Description B.O.B. @ 1 1/2 min.
No return.
B.O.B. @ 2 1/2 min.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>472</u>	Feet of <u>MW</u>	%gas	%oil <u>60</u>	%water <u>40</u>	%mud
Rec <u>504</u>	Feet of <u>MW</u>	%gas	%oil <u>80</u>	%water <u>20</u>	%mud
Rec <u>493</u>	Feet of <u>MW</u>	%gas	%oil <u>95</u>	%water <u>5</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1469 BHT 126 Gravity - API RW 148 @ 37 °F Chlorides 100,000 ppm

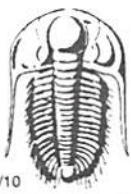
(A) Initial Hydrostatic 2223 Test 1250 T-On Location 13:30
 (B) First Initial Flow 108 Jars T-Started 14:06
 (C) First Final Flow 463 Safety Joint T-Open 18:23
 (D) Initial Shut-In 1252 Circ Sub N/C T-Pulled 20:56
 (E) Second Initial Flow 491 Hourly Standby T-Out 23:39
 (F) Second Final Flow 735 Mileage 1.32RT 204.60 Comments _____
 (G) Final Shut-In 1249 Sampler _____
 (H) Final Hydrostatic 2128 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 15
 Initial Shut-In 60
 Final Flow 15
 Final Shut-In 60

Sub Total 1454.60 MP/DST Disc't _____

Approved By [Signature] Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48487

Well Name & No. Kruto #229 Test No. 2 Date 11-11-12
 Company Murfin Drilling Co. Elevation 3250 KB 3239 GL
 Address 250 N. Water St. 300 Wichita, KS 67202
 Co. Rep / Geo. Tom Funk Rig MDC 20
 Location: Sec. 29 Twp. 10s Rge. 24w Co. Thomas State KS

Interval Tested 4294-4380 Zone Tested LKC 'H,I,J'
 Anchor Length 86 Drill Pipe Run 4110 Mud Wt. 9.2
 Top Packer Depth 4290 Drill Collars Run 178 Vis 60
 Bottom Packer Depth 4294 Wt. Pipe Run 0 WL 6.8
 Total Depth 4380 Chlorides 6900 ppm System LCM 7#
 Blow Description B.O.B. @ 11 min
No return.
B.O.B. @ 14 min.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>218</u>	Feet of <u>WM</u>	%gas	%oil	<u>25%</u> water	<u>75%</u> mud
Rec <u>437</u>	Feet of <u>MW</u>	%gas	%oil	<u>60%</u> water	<u>40%</u> mud
Rec <u>245</u>	Feet of <u>MW</u>	%gas	%oil	<u>95%</u> water	<u>5%</u> mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 900 BHT 125 Gravity — API RW .190 @ 33 ° F Chlorides 90,000 ppm

(A) Initial Hydrostatic 2229 Test 1250 T-On Location 17:45
 (B) First Initial Flow 60 Jars T-Started 18:21
 (C) First Final Flow 217 Safety Joint T-Open 20:29
 (D) Initial Shut-In 1277 Circ Sub NIC T-Pulled 00:31
 (E) Second Initial Flow 220 Hourly Standby T-Out 3:00
 (F) Second Final Flow 433 Mileage 204.60 Comments _____
 (G) Final Shut-In 1271 Sampler _____
 (H) Final Hydrostatic 2206 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1454.60

Approved By [Signature] Our Representative Chuck Smith

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48488

Well Name & No. Kruto # 2-29 Test No. 3 Date 11-12-12
 Company Murfin Drilling Co. Elevation 3250 KB 3239 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Tom Funk Rig MDC 20
 Location: Sec. 29 Twp. 10s Rge. 24w Co. Thomas State KS

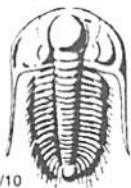
Interval Tested 4388-4410 Zone Tested LKC 'K'
 Anchor Length 22 Drill Pipe Run 4205 Mud Wt. 9.3
 Top Packer Depth 4384 Drill Collars Run 178 Vis 50
 Bottom Packer Depth 4388 Wt. Pipe Run 0 WL 6.8
 Total Depth 4410 Chlorides 6900 ppm System LCM 6#
 Blow Description 2" Blow
No return.
2 1/2" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>60</u>	<u>15</u> %gas	<u>85</u> %oil	%water	%mud
Rec <u>15</u>	Feet of <u>05M</u>	%gas	%oil	%water <u>100</u>	%mud
Rec <u>120</u>	Feet of <u>MW</u>	%gas	%oil <u>50</u>	%water <u>50</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 136 BHT 122 Gravity - API RW .270 @ 35 ° F Chlorides 57000 ppm

(A) Initial Hydrostatic 2226 Test 1250 T-On Location 11:00
 (B) First Initial Flow 15 Jars _____ T-Started 11:04
 (C) First Final Flow 38 Safety Joint _____ T-Open 13:34
 (D) Initial Shut-In 1224 Circ Sub NIC T-Pulled 17:36
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 19:31
 (F) Second Final Flow 84 Mileage 204.60 Comments _____
 (G) Final Shut-In 1220 Sampler _____
 (H) Final Hydrostatic 2175 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____
 Initial Shut-In 60 Day Standby _____
 Final Flow 60 Accessibility _____
 Final Shut-In 90 _____
 Sub Total 1454.60

Approved By [Signature] Our Representative Chuck Smith
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48489

Well Name & No. Kruto #2-29 Test No. 4 Date 11-13-12
 Company Murfin Drilling Co. Elevation 3250 KB 3239 GL
 Address 250 N. Water St. 300 Wichita, KS 67202
 Co. Rep / Geo. Tom Funk Rig MDC 20
 Location: Sec. 29 Twp. 10s Rge. 24w Co. Thomas State KS

Interval Tested 4607-4643 Zone Tested Myric Station
 Anchor Length 36 Drill Pipe Run 4426 Mud Wt. 9.3
 Top Packer Depth 4603 Drill Collars Run 178 Vis 60
 Bottom Packer Depth 4607 Wt. Pipe Run 0 WL 8.0
 Total Depth 4643 Chlorides 6800 ppm System LCM 8#

Blow Description Weak surface flow. Tool plugged.
No return.
B.O.B. @ 1 min.
B.O.B. @ 12 min.

Rec	Feet of	%gas	%oil	%water	%mud
	<u>2108' weak GIP 1178 GIP</u>				
<u>372</u>	<u>60</u>	<u>50</u>	<u>50</u>		
<u>124</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>426</u>	<u>GMCO</u>	<u>25</u>	<u>40</u>		<u>.35</u>
Rec	Feet of	%gas	%oil	%water	%mud

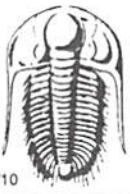
Rec Total 922 BHT 131 Gravity 34 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 24.39 Test 1250 T-On Location 20:30
 (B) First Initial Flow 236 Jars T-Started 20:40
 (C) First Final Flow 373 Safety Joint T-Open 22:43
 (D) Initial Shut-In 376 Circ Sub NC T-Pulled 02:46
 (E) Second Initial Flow 158 Hourly Standby T-Out 05:47
 (F) Second Final Flow 335 Mileage 204.60 Comments
 (G) Final Shut-In 369 Sampler
 (H) Final Hydrostatic 2335 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 60 Extra Packer Extra Copies
 Final Flow 60 Extra Recorder Sub Total 0
 Final Shut-In 90 Day Standby Total 1454.60
 Accessibility MP/DST Disc't
 Sub Total 1454.60

Approved By [Signature] Our Representative Chuck Smith

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48491

Well Name & No. KRUTO #2-29 Test No. 5 Date 11-14-12
 Company Murfin Drilling Co. Elevation 3250 KB 32.39 GL
 Address 2.50 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Tom Funk Rig MDC 20
 Location: Sec. 29 Twp. 10s Rge. 24w Co. Thomas State KS

Interval Tested 4694-4740 Zone Tested Johnson
 Anchor Length 46 Drill Pipe Run 4525 Mud Wt. 9.2
 Top Packer Depth 4690 Drill Collars Run 178 Vis 60
 Bottom Packer Depth 4694 Wt. Pipe Run 0 WL 8.0
 Total Depth 4740 Chlorides 9100 ppm System LCM 6"
 Blow Description 6" Blow.
Weak surface return died @ 15 min.
10" Blow.
Surface return died @ 20 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>110</u>	Feet of <u>60</u>	<u>5</u> %gas	<u>95</u> %oil	%water	%mud
Rec <u>60</u>	Feet of <u>60CM</u>	<u>10</u> %gas	<u>30</u> %oil	%water	<u>60</u> %mud
Rec	Feet of <u>10' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 170 BHT 123 Gravity 19 API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2364 Test 1250 T-On Location 21:00
 (B) First Initial Flow 25 Jars T-Started 21:46
 (C) First Final Flow 42 Safety Joint N/K T-Open 00:14
 (D) Initial Shut-In 499 Circ Sub T-Pulled 4:16
 (E) Second Initial Flow 50 Hourly Standby T-Out 6:42
 (F) Second Final Flow 76 Mileage 132RT 204.60 Comments _____
 (G) Final Shut-In 530 Sampler _____
 (H) Final Hydrostatic 2297 Straddle _____
 Shale Packer _____
 Ruined Packer 320
 Extra Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____
 Initial Shut-In 60 Day Standby _____
 Final Flow 60 Accessibility _____
 Final Shut-In 90 Sub Total 1454.60 MP/DST Disc't _____

Approved By [Signature] Our Representative Chuck Smith

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



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

PROD COPY

acct
Prod - Liz H
MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 254276

Invoice Date: 11/12/2012 Terms: 10/10/30, n/30 Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

OPERATOR PAY MDC
LEASE: Bm

KRUTO 2-29
37268
29-10-34
11-06-2012
KS

USED FOR _____
APPROVED _____

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	230.00	17.6500	4059.50
1102	CALCIUM CHLORIDE (50#)	649.00	.8900	577.61
1118B	PREMIUM GEL / BENTONITE	432.00	.2500	108.00
1111	SODIUM CHLORIDE (GRANULA)	100.00	.0000	.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-474.51
9995-130	CEMENT EQUIPMENT DISCOUNT	-157.00

Description	Hours	Unit Price	Total
399 CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
399 EQUIPMENT MILEAGE (ONE WAY)	15.00	5.00	75.00
566 MIN. BULK DELIVERY	1.00	410.00	410.00

Amount	Description
10203	
3	4227.0002
	5995.35

OKD
Cement S. Co
2-29

Amount Due 6661.50 if paid after 12/12/2012

Parts:	4745.11	Freight:	.00	Tax:	311.75	AR	5995.35
Labor:	.00	Misc:	.00	Total:	5995.35		
Sublt:	-631.51	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-2227

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 37268
LOCATION Oakley, KS
FOREMAN Kelly Gabel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-6-12	5406	Kruto 2-29	29	10	34	Thomas
CUSTOMER		Murfine Drig		Colby		
MAILING ADDRESS		Southern Rd		W+OR15		
CITY		STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #
				399	Dorman M	
				566	Jordan L	

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 267' CASING SIZE & WEIGHT 8 5/8 24#
 CASING DEPTH 267 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 148 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 15 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting, rigged up on murfine drilling #20, hooked up to circulate, mixed 230SKS com 3% cc 2% gel, displaced with 15 3/4 bbl water, shut in, washed out pumps & lines rigged down.

Cement did circulate

Approx 800l to pit

Thank you Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	15	MILEAGE	5.00	75.00
11045	230	Class A cement	17.65	4059.50
1102	649 #	calcium chloride	.89	577.61
11183	432 #	Bentonite	.25	108.00
5407	10.81	Ton Mileage delivery	167	416.00
1111	100 #	sgt	.45	NC
				6315.11
		Lead 1080 disc		631.51
				5683.60
				311.75
				5995.35

Revin 3737

6:30 PM Greg Gordon

AUTHORIZATION

TITLE Poolmaster

SALES TAX
ESTIMATED
TOTAL
DATE 11-6-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

2542711



Accty —
cc: WT
cc: Liz
cc: L-1

Invoice

DATE	INVOICE #
11/28/2012	23709

BILL TO
Murfin Drilling Co Inc
PO Box 661
Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-29	Kruto	Thomas	Company Tools	Oil	Development	Cement Port Collar	Jason

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	90	Miles	6.00	540.00
576D-D	Pump Charge - Port Collar	1	Job	1,250.00	1,250.00
276	Flocele	57	Lb(s)	2.00	114.00T
290	D-Air	2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)	225	Sacks	16.50	3,712.50T
581D	Service Charge Cement	350	Sacks	2.00	700.00
583D	Drayage	1,570.41	Ton Miles	1.00	1,570.41
	Subtotal				7,956.91
	Sales Tax Thomas County			7.30%	284.44

USED FOR IC 103
APPROVED JR

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!! **Total** \$8,241.35



Services, Inc.

CHARGE TO: MURKIN DRILLING
ADDRESS
CITY, STATE, ZIP CODE

TICKET No. 23709

PAGE 1 OF

SERVICE LOCATIONS: 1. NESS CITY, KS

WELL/PROJECT NO. KRUID 2-29

LEASE COUNTY/PARISH THOMAS

TICKET TYPE: SERVICE SALES CONTRACTOR: Co. Tools RIG NAME/NO.

WELL TYPE: OIL WELL CATEGORY: DEVELOPMENT JOB PURPOSE: Cement Port Collar

STATE: KS CITY: Monument, KS DATE: 28 Nov 12

SHIPMENT DELIVERED TO: ORDER NO.

WELL PERMIT NO. WELL LOCATION: 210, 211, 410, 411, 412, 413

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
5725					MILEAGE # 115					6.00	540.00
5716D					PUMP CHARGE	1.00	KB			1850.00	1850.00
2716					EDGE	5.71	lbs			2.00	114.20
291D					D-AIR	2.00	PM			35.00	70.00
33D					SWIFT MULTI DENSITY					16.50	3712.50
581					CEMENT SERVICE CHARGE	3.50	5X			2.00	700.00
583					DRAWAGE	34898.15	15724.17M			1.00	15724.17

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: 28 Nov 12 TIME SIGNED: 1:30 P.M.

SWIFT OPERATOR: [Signature]

APPROVAL: [Signature]

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 7956.91

TOTAL: 8241.35

Thomas TAX 7.3%

Thank You!

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

JOB LOG

SWIFT Services, Inc.

DATE 28 Nov 12 PAGE NO.

CUSTOMER
MURFIN DRILLING

WELL NO.

LEASE

KRUTO 2-29

JOB TYPE

CEMENT PORT COLLAR

TICKET NO.

23709

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1050							ON LOCATION
								PORT COLLAR @ 2770
	1108				✓		1000	TEST-HELD
	1111	3			✓		600	OPEN PORT COLLAR - TAKE INJ RATE
	1116	4	125	✓		800		MIX 225 SX SMD
		3	10	✓		400		DISPLACE CEMENT
				✓				CIRCULATE 20SX TO PIT
	1155				✓		1000	CLOSE PORT COLLAR - TEST - HELD
								RUN LOGS
	1204	3 1/2	30		✓		300	REVERSE CEMENT OUT OF TUBING
	1220							WASH TRUCK
	1300							JOB COMPLETE
								THANKS # 115
								JASON JEFF JEREMY

Accty -

cc: W1
cc: Liz
cc: J-L



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



Invoice

DATE	INVOICE #
11/16/2012	21968

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

Knuto

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-29	Knuto	Thomas	Company Tools	Oil	Development	LongString	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	6.00	540.00
578D-L	Pump Charge - Long String - 4870 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				1,150	Lb(s)	0.20	230.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				1,062	Ton Miles	1.00	1,062.00
	Subtotal							14,774.50
	Sales Tax Thomas County						7.30%	819.24

USED FOR IC 103
 APPROVED [Signature]

We Appreciate Your Business! **Total** \$15,593.74



Services, Inc.

CHARGE TO: Murphy Dry Co, Inc
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET No 21968

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, KS
 2. Ness City, KS
 3. _____
 4. REFERRAL LOCATION _____

WELL/PROJECT NO. A2-29 LEASE Knuto COUNTY/PARISH Thomas STATE KS CITY _____ DATE 11-16-12 OWNER _____
 TICKET TYPE SALES CONTRACTOR Co Tools #20 RIG NAME/NO. _____ ORDER NO. _____
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Leasing DELIVERED TO Local Train WELL PERMIT NO. _____
 INVOICE INSTRUCTIONS _____ WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			UM	UM	UM	UM		
5-73						90 mi					6.00	540.00
5-78					Pump Charge (Leasing)	1 ea					1520.00	1520.00
221					KCL	4 ea					25.00	100.00
280					Flocheck-21	500 gal					2.50	1250.00
290					O-Air	2 ea					35.00	70.00
403					Baskets	2 ea					250.00	500.00
404					Part Collar	1 ea					2400.00	2400.00
406					LD Plug & Bottle	1 ea					250.00	250.00
407					Insert float shoe w/ fill	1 ea					350.00	350.00
409					Turbo lizers	15 ea					90.00	1350.00
413					Rotawall Scratchers	10 ea					40.00	400.00
419					Rotating Head	1 ea					200.00	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 11-16-12 TIME SIGNED 2:34 PM A.M. P.M.

SWIFT OPERATOR Alan K... APPROVAL _____

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

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1
 PAGE 2
 Subtotal 14,774.50
 TAX 819.24
 TOTAL 15,593.74

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-16-12 PAGE NO. 1

CUSTOMER *Murfin Drilling Co. Inc* WELL NO. # *2-29* LEASE *Kauto* JOB TYPE *hangstring* TICKET NO. *21968*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							on loc w/ FE
								RTD 4870' LTD 4875' 5 1/2" x 15.5# x 4859' x 21' Turbo 1-13, 48, 49 Bask 49, 50 P.C. 50 @ 2774
	1830							start FE
	1955							58 Break Circ 15 min
	2100							Bottom Break Circ 1 hr
	2240	5	0				200	start KCL flush 15 bbl
		5	15/0				200	start Flocheck 500 gal
		5	12/0				200	start KCL flush 5 bbl
		5	5/0				200	start 180sks EA-2 Cement
	2255		43					End Cement wash P&L Drop L.D. Plug
	2310	6	0				200	start Displacement
	2325	5	81				300	catch Cement
	2330		115				850 1500	Land Plug Release Pressure Float Held
	2340	2.5	7/4					Plug RH & MH

Thankyou

Nick, David E. + Flint