



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1081245
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: _____

1081245

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> _____	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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 15, 2012

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

Re: ACO1
API 15-193-20840-00-00
Kruto 1-29
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 #1-29 1950' FSL 1800' FWL Sec. 29-T10S-R34W 3258' KB						MDCI Urban #1-28 1700' FSL 2150' FEL Sec. 28-T10S-R34W 3204' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2757	+501	-7	2754	+504	-4	2696	+508
B/Anhydrite	2785	+473	-7	2780	+478	-2	2724	+480
Topeka	3925	-667	-2	3916	-658	+7	3869	-665
Heebner	4143	-885	-1	4132	-874	+10	4088	-884
Lansing	4184	-926	-2	4173	-915	+9	4128	-924
Stark	4407	-1149	flat	4398	-1140	+9	4353	-1149
Pawnee	4604	-1346	+2	4592	-1334	+12	4552	-1348
Lwr Pawn	4639	-1381	+3	4629	-1371	+10	4588	-1384
Fort Scott	4655	-1397	+5	4646	-1388	+9	4606	-1402
Johnson Zn	4729	-1471	+2	4721	-1463	+8	4677	-1473
Mississippi				4800	-1542	+5	4751	-1547
RTD	4915						4820	
LTD				4904				

Thomas J. Funk
Petroleum Geologist

Geologists' Report
Drilling Time and Sample Log

OPERATOR Murfin Drilling Co., Inc
LEASE Kruto
WELL NO #1-29

FIELD Wildcat
API 15-193-20840

LOCATION 1896' FSL & 1816' FWL
SEC. 29 **TWP. 10S** **RGE. 34W**

COUNTY Thomas
STATE Kansas

CONTRACTOR Murfin Drilling Co. Rig #25
COMM 2/13/2012
RTD 4/915
SAMPLES SAVED FROM 3800 TO TD
DRILLING TIME KEPT FROM 3800 TO TD
SAMPLES EXAMINED FROM 3800 TO TD

CASING RECORD
SURFACE 8 5/8" at 288'KB w/225x
PRODUCTION

GEOLOGICAL SUPERVISION FROM 3840 TO TD
MUD/UP 3500
TYPE MUD Chemical

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCTURAL COMP
Anyhite	2764 (-404)	2757 (-4501)	-4
B/Anyhite	2780 (-428)	2785 (-443)	-2
Topoka Sh	3916 (-658)	3925 (-667)	+7
Heebner Sh	4132 (-874)	4143 (-885)	+10
Lansing	4173 (-915)	4184 (-926)	+9
Murcie Creek	4314 (-1056)	4323 (-1065)	+8
Stark Sh	4398 (-1140)	4407 (-1149)	+9
Marmaton	4486 (-1228)	4497 (-1239)	+12
Pawnee	4592 (-1334)	4604 (-1346)	+12
Cherokee Sh	4678 (-1420)	4685 (-1427)	+10
Johnson Zone	4721 (-1463)	4729 (-1471)	+8
Mississippi	4800 (-1542)	4809 (-1551)	+5

ELECTRICAL SURVEYS
Log-Tech
DIL
CNL/CDL BHCS



REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Drilling Co. #1-28 Urban
7700' FSL & 2150' FWL sec. 28-10S-34W, Thomas Co. KS

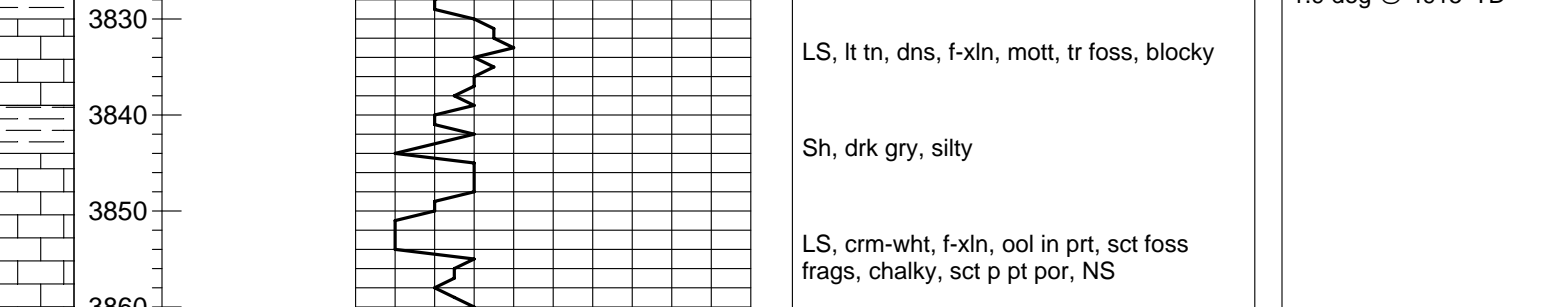
Date	Depth	NO. Size	Make	Type	Depth Out	Feet	Hours
2/13/12	Stud	1	1 1/4" GMS	RR	268	268	3.34
2/14/12	288' WOC	2	7 7/8" Smith	MS1616	3756	3488	53
2/15/12	1750'	3	7 7/8" HTC	GX225	4915	1159	58 1/4
2/16/12	3161'						
2/17/12	4180'						
2/18/12	4180'						
2/19/12	4397'						
2/20/12	4427'						
2/21/12	4661'						
2/22/12	4762'						
2/23/12	4915' TD						

Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was recommended that casing be run in the #1-29 Kruto for further testing.

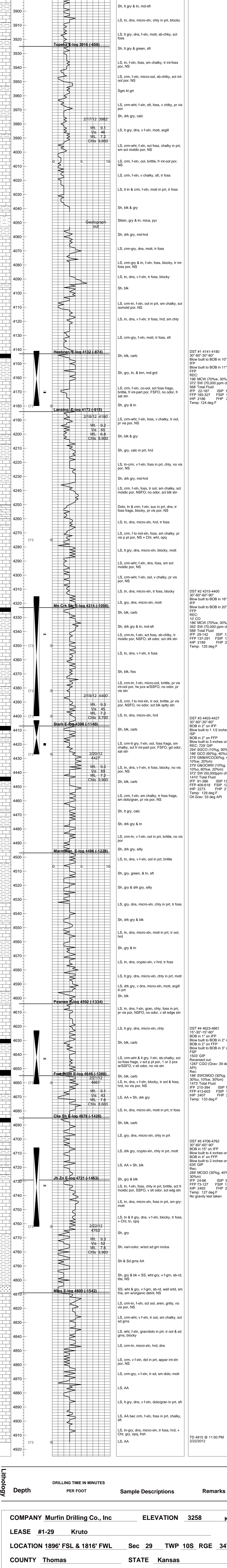
Thomas Funk
Petroleum Geologist

LOG TOP DATUM	SAMPLE TOP DATUM	STRUCTURAL COMP
2764 (-404)	2757 (-4501)	-4
2780 (-428)	2785 (-443)	-2
3916 (-658)	3925 (-667)	+7
4132 (-874)	4143 (-885)	+10
4173 (-915)	4184 (-926)	+9
4314 (-1056)	4323 (-1065)	+8
4398 (-1140)	4407 (-1149)	+9
4486 (-1228)	4497 (-1239)	+12
4592 (-1334)	4604 (-1346)	+12
4678 (-1420)	4685 (-1427)	+10
4721 (-1463)	4729 (-1471)	+8
4800 (-1542)	4809 (-1551)	+5

LEGEND



Lithology



COMPANY	Murfin Drilling Co., Inc	ELEVATION	3258	KB
LEASE	#1-29 Kruto			
LOCATION	1896' FSL & 1816' FWL	Sec 29	TWP 10S	RGE 34W
COUNTY	Thomas	STATE	Kansas	



DRILL STEM TEST REPORT

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

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Tom Funk

Kruto #1-29

29-10s-34w Thomas,KS

Start Date: 2012.02.18 @ 04:55:00

End Date: 2012.02.18 @ 13:09:45

Job Ticket #: 45067 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.23 @ 15:35:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45067

DST#: 1

ATTN: Tom Funk

Test Start: 2012.02.18 @ 04:55:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:45

Time Test Ended: 13:09:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4141.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3258.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 327.45 psig @ 4142.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.18

End Date:

2012.02.18

Last Calib.:

2012.02.18

Start Time: 04:55:01

End Time:

13:09:45

Time On Btm:

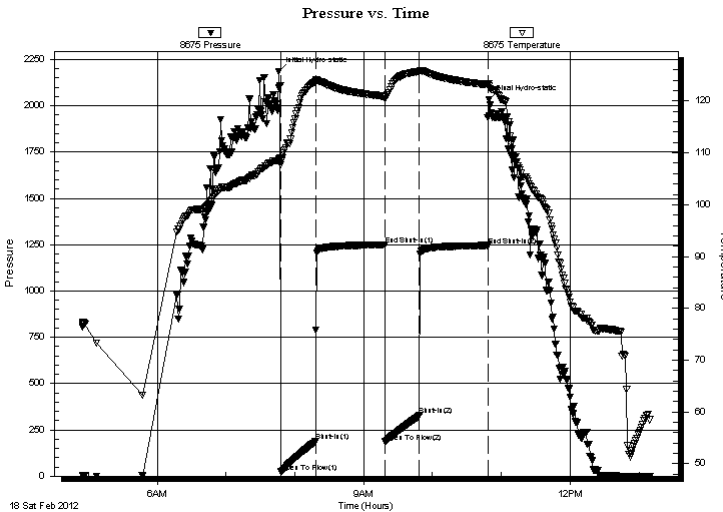
2012.02.18 @ 07:45:45

Time Off Btm:

2012.02.18 @ 10:49:30

TEST COMMENT: B.O.B. in 10 min.
Bled off for 5 min. No return blow
B.O.B. in 11 min.
Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.00	108.58	Initial Hydro-static
2	22.40	107.78	Open To Flow (1)
33	186.82	123.77	Shut-In(1)
93	1248.54	120.91	End Shut-In(1)
93	185.02	120.51	Open To Flow (2)
123	327.45	125.70	Shut-In(2)
183	1245.31	123.11	End Shut-In(2)
184	2032.65	122.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
196.00	mcw 30%M 70%W	2.75
372.00	100%W	5.22

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45067

DST#: 1

ATTN: Tom Funk

Test Start: 2012.02.18 @ 04:55:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:45

Time Test Ended: 13:09:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4141.00 ft (KB) To 4180.00 ft (KB) (TVD)

Reference Elevations: 3258.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8650 Outside

Press @ Run Depth: psig @ 4142.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.18

End Date:

2012.02.18

Last Calib.:

2012.02.18

Start Time: 04:55:01

End Time:

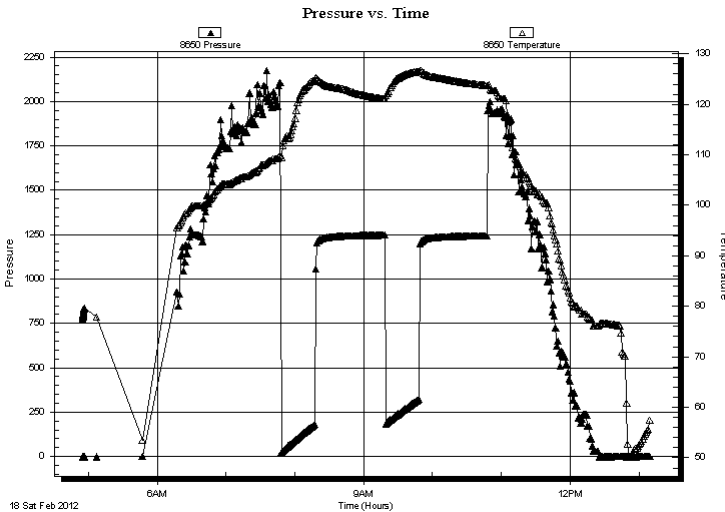
13:09:45

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 10 min.
Bled off for 5 min. No return blow
B.O.B. in 11 min.
Bled off for 5 min. No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
196.00	mcw 30%M 70%W	2.75
372.00	100%W	5.22

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45067

DST#: 1

ATTN: Tom Funk

Test Start: 2012.02.18 @ 04:55:00

Tool Information

Drill Pipe:	Length: 4137.04 ft	Diameter: 3.80 inches	Volume: 58.03 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.04 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4141.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 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			4122.00	
Shut In Tool	5.00			4127.00	
Hydraulic tool	5.00			4132.00	
Packer	5.00			4137.00	20.00 Bottom Of Top Packer
Packer	4.00			4141.00	
Stubb	1.00			4142.00	
Recorder	0.00	8675	Inside	4142.00	
Recorder	0.00	8650	Outside	4142.00	
Perforations	35.00			4177.00	
Change Over Sub	0.00			4177.00	
Drill Pipe	0.00			4177.00	
Change Over Sub	0.00			4177.00	
Bullnose	3.00			4180.00	39.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45067

DST#: 1

ATTN: Tom Funk

Test Start: 2012.02.18 @ 04:55:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
196.00	mcw 30%M 70%W	2.749
372.00	100%W	5.218

Total Length: 568.00 ft Total Volume: 7.967 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: 0.15 @ 50 F = 70,000

Serial #: 8675

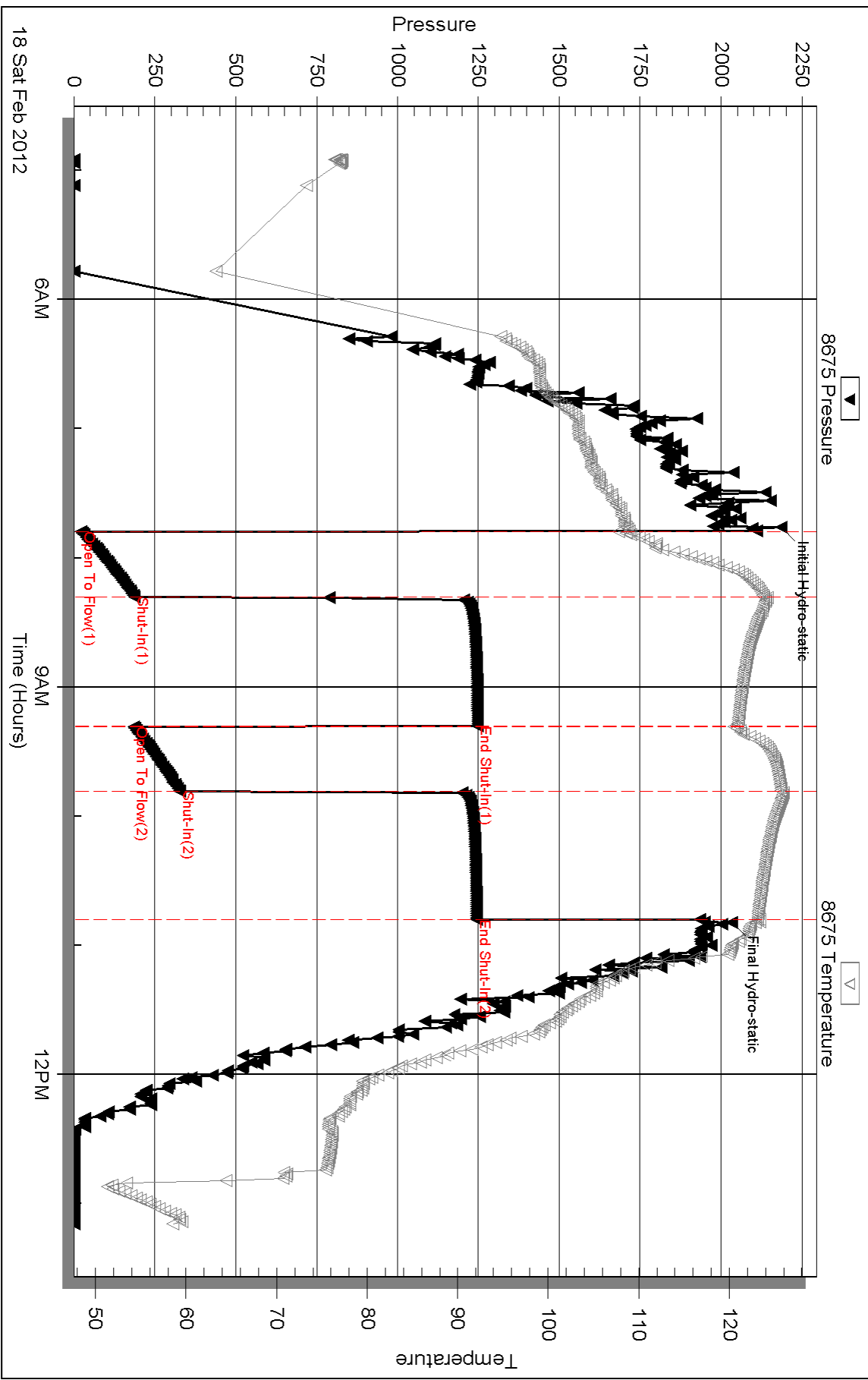
Inside

Murfin Drilling Company Inc.

Kruto #1-29

DST Test Number: 1

Pressure vs. Time



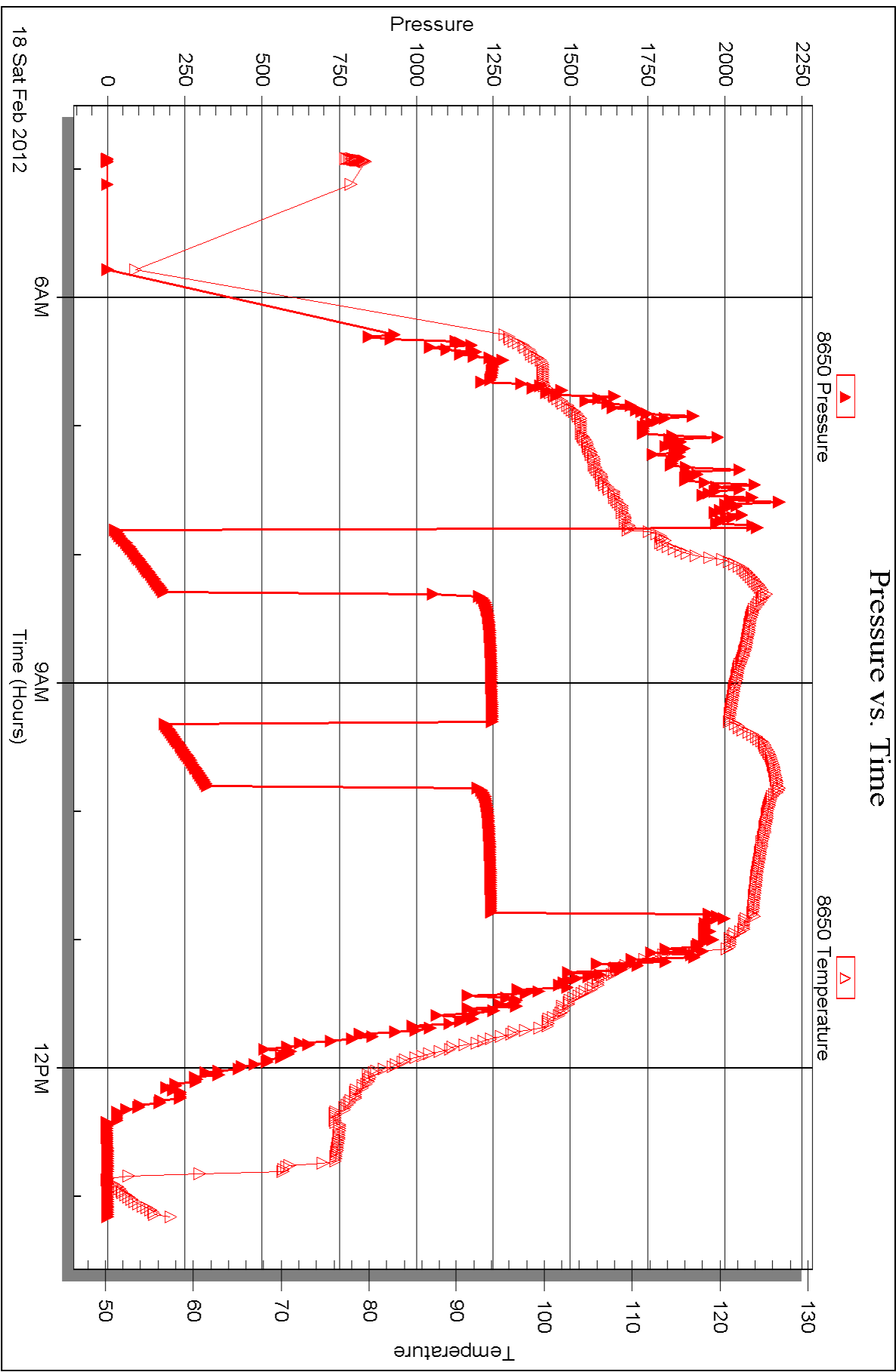
Serial #: 8650

Outside

Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Tom Funk

Kruto #1-29

29-10s-34w Thomas,KS

Start Date: 2012.02.19 @ 10:00:00

End Date: 2012.02.19 @ 18:07:45

Job Ticket #: 45068 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.23 @ 15:34:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45068

DST#: 2

ATTN: Tom Funk

Test Start: 2012.02.19 @ 10:00:00

GENERAL INFORMATION:

Formation: **Kansas City " H, I,**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:06:00
 Time Test Ended: 18:07:45
 Interval: **4315.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Total Depth: 4400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 3258.00 ft (KB)
 3245.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8675

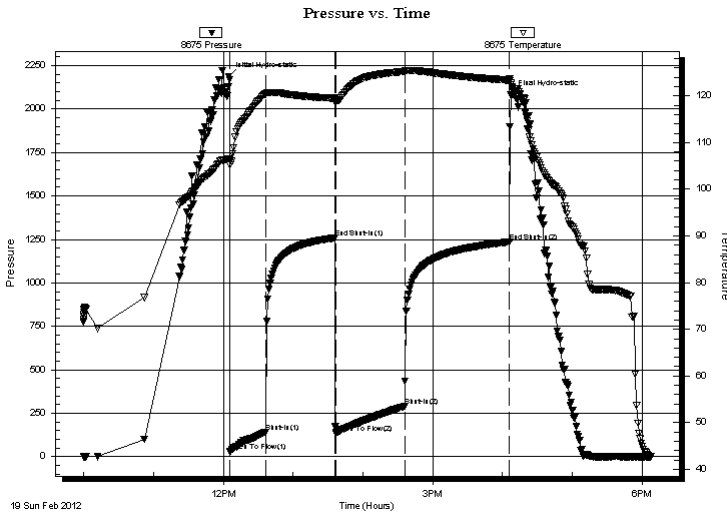
Inside

Press @ Run Depth: 290.73 psig @ 4316.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.19 End Date: 2012.02.19 Last Calib.: 2012.02.19
 Start Time: 10:00:01 End Time: 18:07:45 Time On Btm: 2012.02.19 @ 12:04:30
 Time Off Btm: 2012.02.19 @ 16:07:00

TEST COMMENT: B.O.B. in 16 min.
 Bled off for 5 min. No return blow
 B.O.B. in 20 min.
 Bled off for 5 min. No return blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.55	106.52	Initial Hydro-static
2	28.91	105.25	Open To Flow (1)
32	141.54	120.39	Shut-In(1)
92	1258.87	119.45	End Shut-In(1)
92	136.83	119.04	Open To Flow (2)
152	290.73	125.21	Shut-In(2)
242	1236.23	123.34	End Shut-In(2)
243	2082.61	122.74	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Free Oil	0.14
186.00	mcw 30%M 70%W	2.61
392.00	100%W	5.50

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45068

DST#: 2

ATTN: Tom Funk

Test Start: 2012.02.19 @ 10:00:00

GENERAL INFORMATION:

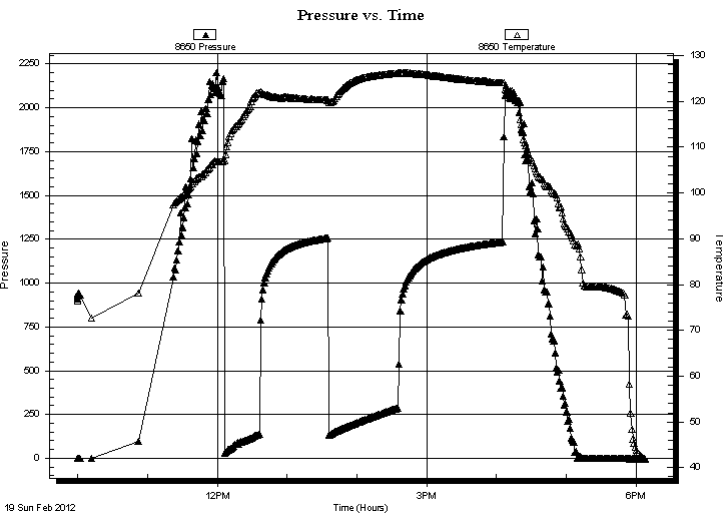
Formation: Kansas City " H, I,		
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 12:06:00	Tester: Jace McKinney	
Time Test Ended: 18:07:45	Unit No: 46	
Interval: 4315.00 ft (KB) To 4400.00 ft (KB) (TVD)	Reference Elevations: 3258.00 ft (KB)	
Total Depth: 4400.00 ft (KB) (TVD)	3245.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 13.00 ft

Serial #: 8650

Outside

Press@RunDepth: psig @ 4316.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.02.19	End Date: 2012.02.19
Start Time: 10:00:01	End Time: 18:07:45
	Last Calib.: 2012.02.19
	Time On Btm:
	Time Off Btm:

TEST COMMENT: B.O.B. in 16 min.
 Bled off for 5 min. No return blow
 B.O.B. in 20 min.
 Bled off for 5 min. No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Free Oil	0.14
186.00	mcw 30%M 70%W	2.61
392.00	100%W	5.50

* 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 Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45068

DST#: 2

ATTN: Tom Funk

Test Start: 2012.02.19 @ 10:00:00

Tool Information

Drill Pipe:	Length: 4325.39 ft	Diameter: 3.80 inches	Volume: 60.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 60.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.39 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4315.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 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			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00			4306.00	
Packer	5.00			4311.00	20.00 Bottom Of Top Packer
Packer	4.00			4315.00	
Stubb	1.00			4316.00	
Recorder	0.00	8675	Inside	4316.00	
Recorder	0.00	8650	Outside	4316.00	
Perforations	17.00			4333.00	
Change Over Sub	1.00			4334.00	
Drill Pipe	62.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	3.00			4400.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45068

DST#: 2

ATTN: Tom Funk

Test Start: 2012.02.19 @ 10:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 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: 9700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	100% Free Oil	0.140
186.00	mcw 30%M 70%W	2.609
392.00	100%W	5.499

Total Length: 588.00 ft Total Volume: 8.248 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .15 @ 50 F = 70,000

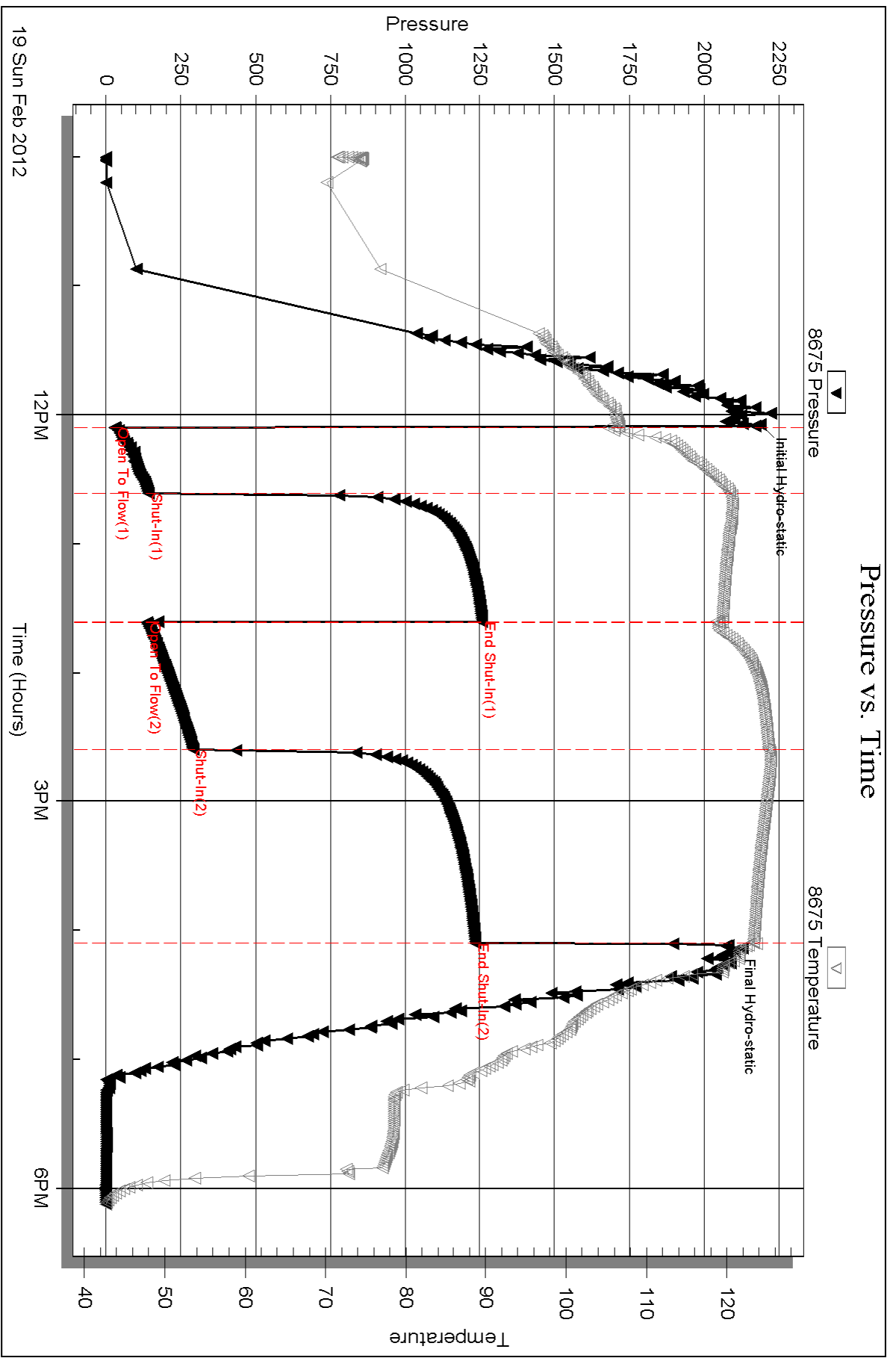
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Inside

Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45068

Printed: 2012.02.23 @ 15:34:10

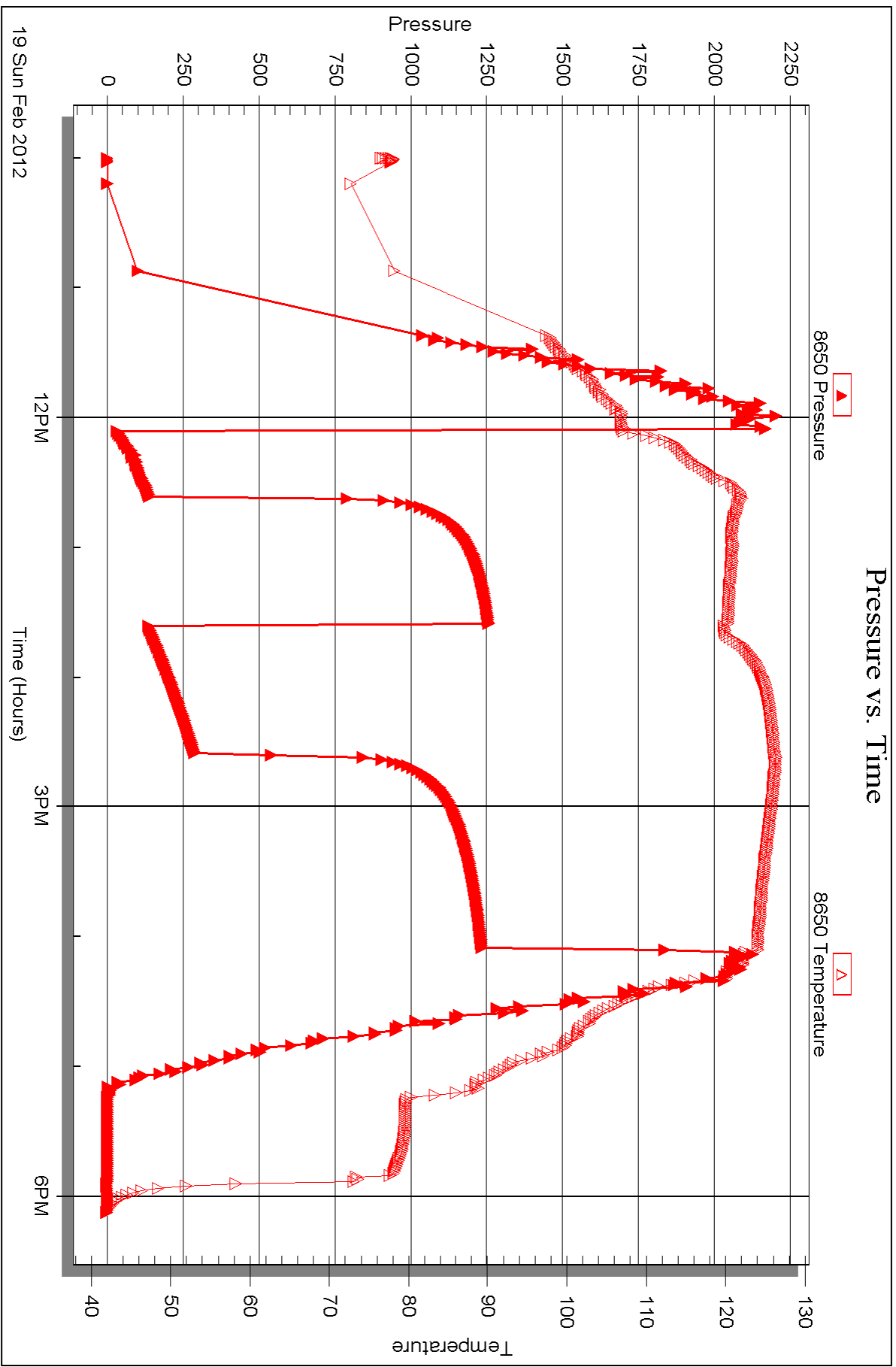
Serial #: 8650

Outside

Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Tom Funk

Kruto #1-29

29-10s-34w Thomas,KS

Start Date: 2012.02.20 @ 02:00:00

End Date: 2012.02.20 @ 10:54:00

Job Ticket #: 45069 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.23 @ 15:33:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45069

DST#: 3

ATTN: Tom Funk

Test Start: 2012.02.20 @ 02:00:00

GENERAL INFORMATION:

Formation: **Kansas City " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:11:30

Time Test Ended: 10:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4403.00 ft (KB) To 4427.00 ft (KB) (TVD)

Reference Elevations: 3258.00 ft (KB)

Total Depth: 4427.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 617.94 psig @ 4404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.20

End Date:

2012.02.20

Last Calib.:

2012.02.20

Start Time: 02:00:01

End Time:

10:54:00

Time On Btm:

2012.02.20 @ 04:10:15

Time Off Btm:

2012.02.20 @ 07:20:45

TEST COMMENT:

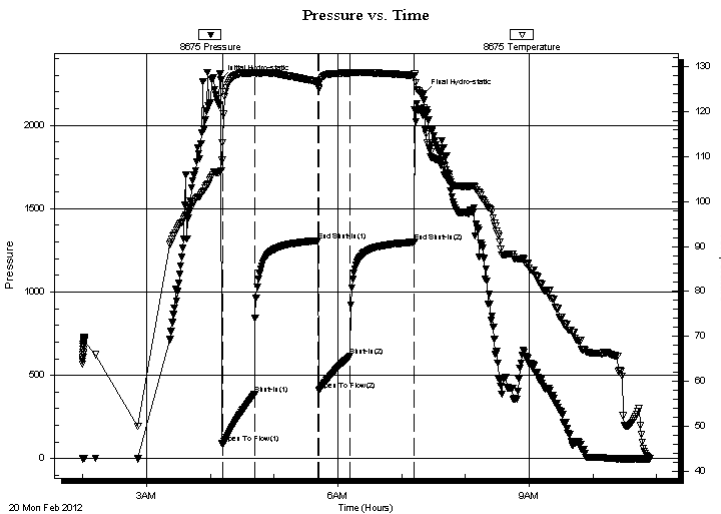
B.O.B. in 2 min.

Bled off for 5 min. Built to 1 1/2" return blow

B.O.B. in 2 1/2 min.

Bled off for 5 min. Built to 3" return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.75	106.79	Initial Hydro-static
2	90.91	113.05	Open To Flow (1)
32	386.30	128.70	Shut-In(1)
92	1306.84	126.68	End Shut-In(1)
92	408.81	125.45	Open To Flow (2)
122	617.94	128.64	Shut-In(2)
182	1299.16	128.04	End Shut-In(2)
191	2191.43	122.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	729 Feet Gas In Pipe	0.00
294.00	Free Oil 10%G 90%O	4.12
186.00	ocg 40%O 60%G	2.61
279.00	w cmgo 10%W 20%M 30%G 40%O	3.91
279.00	gcomw 10%G 10%O 20%M 60%W	3.91
372.00	100% Water	5.22

* 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 Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45069

DST#: 3

ATTN: Tom Funk

Test Start: 2012.02.20 @ 02:00:00

Tool Information

Drill Pipe:	Length: 4388.73 ft	Diameter: 3.80 inches	Volume: 61.56 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 61.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.73 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4403.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4384.00	
Shut In Tool	5.00			4389.00	
Hydraulic tool	5.00			4394.00	
Packer	5.00			4399.00	20.00 Bottom Of Top Packer
Packer	4.00			4403.00	
Stubb	1.00			4404.00	
Recorder	0.00	8675	Inside	4404.00	
Recorder	0.00	8650	Outside	4404.00	
Perforations	20.00			4424.00	
Change Over Sub	0.00			4424.00	
Drill Pipe	0.00			4424.00	
Change Over Sub	0.00			4424.00	
Bullnose	3.00			4427.00	24.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45069

DST#: 3

ATTN: Tom Funk

Test Start: 2012.02.20 @ 02:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	729 Feet Gas In Pipe	0.000
294.00	Free Oil 10%G 90%O	4.124
186.00	ocg 40%O 60%G	2.609
279.00	w cmgo 10%W 20%M 30%G 40%O	3.914
279.00	gcomw 10%G 10%O 20%M 60%W	3.914
372.00	100% Water	5.218

Total Length: 1410.00 ft Total Volume: 19.779 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .20 @ 50 F = 50,000

API: 31 @ 40 F = 33

Serial #: 8675

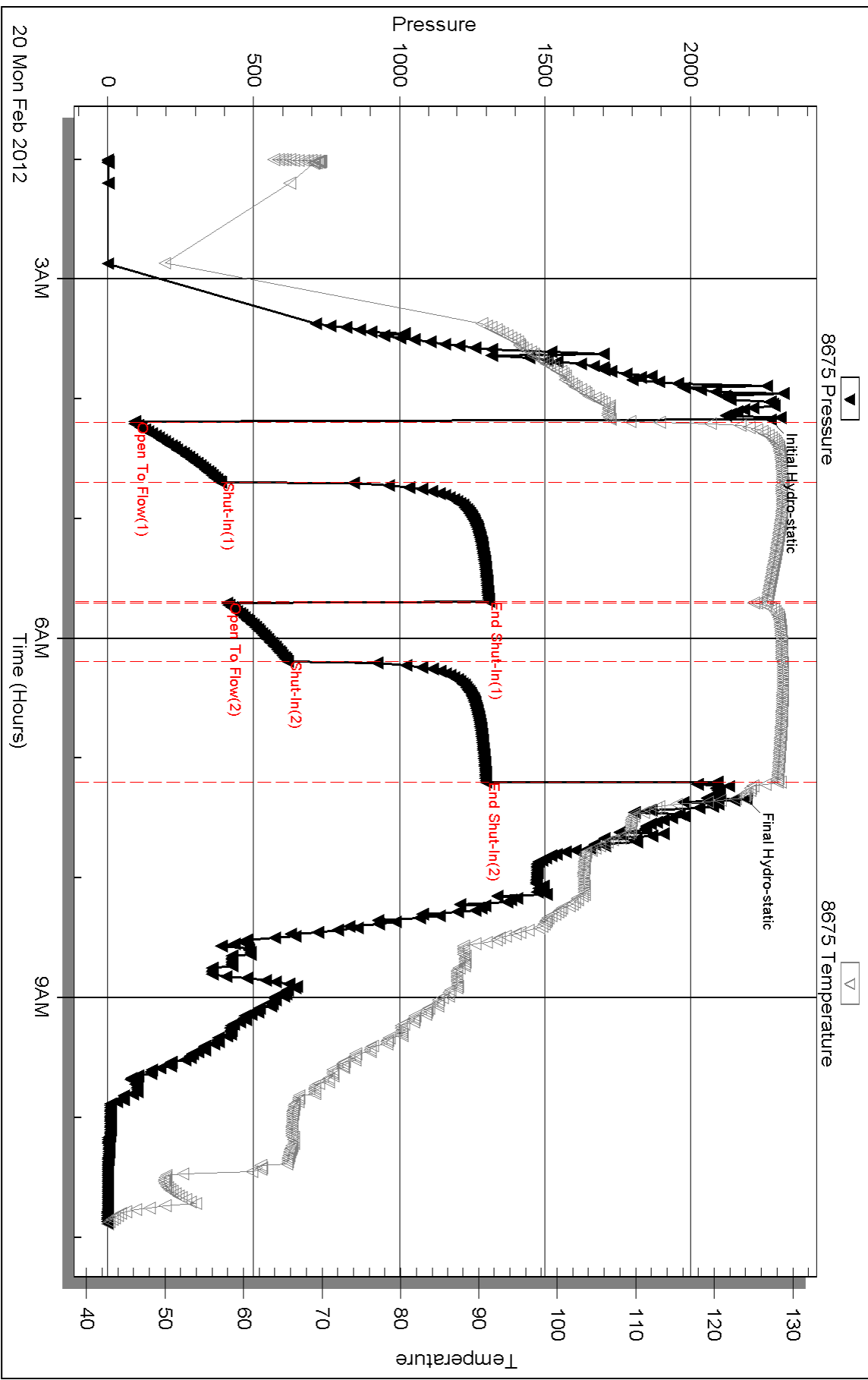
Inside

Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45069

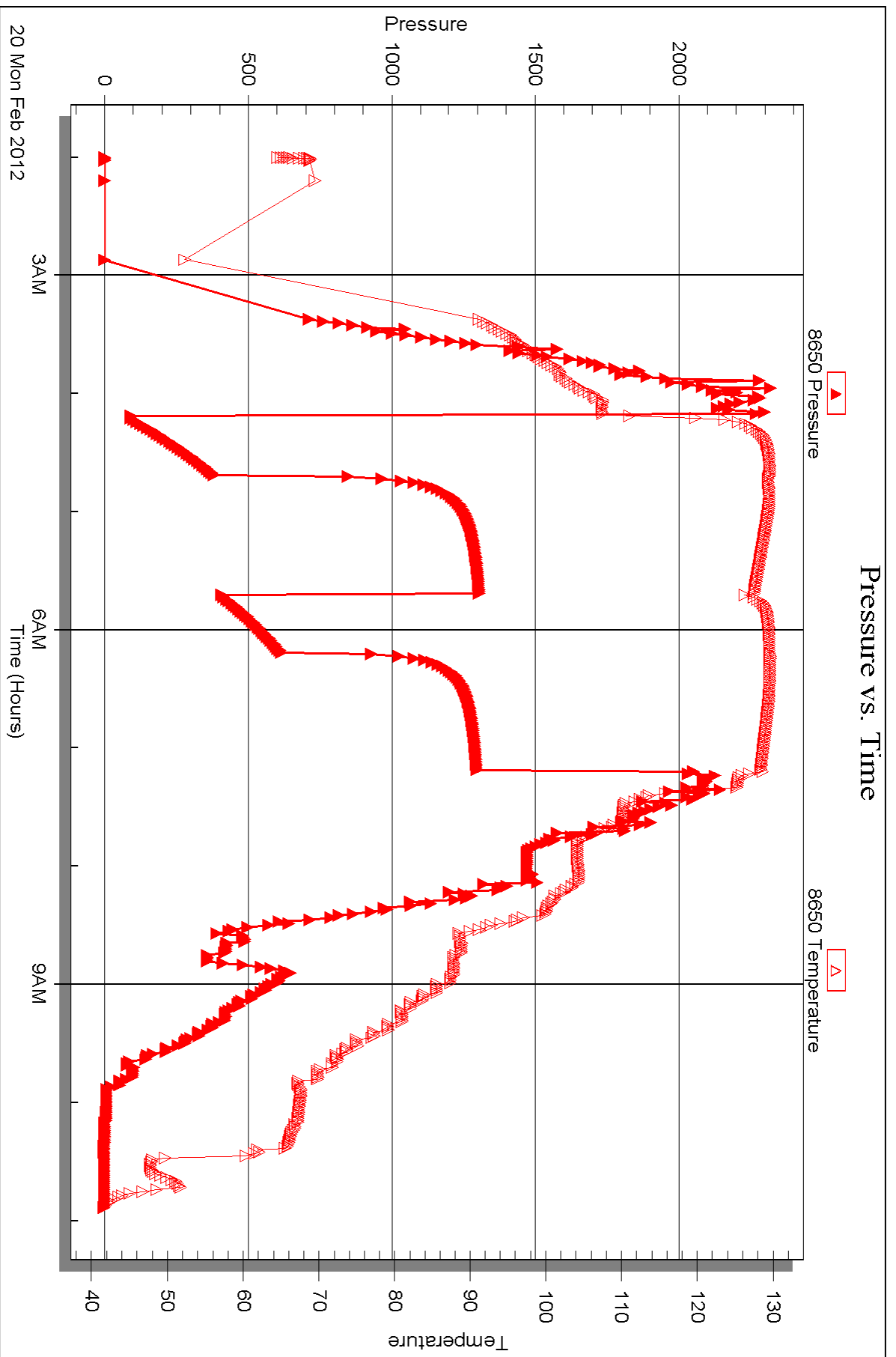
Printed: 2012.02.23 @ 15:33:27

Serial #: 8650

Outside Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 3





DRILL STEM TEST REPORT

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

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Tom Funk

Kruto #1-29

29-10s-34w Thomas,KS

Start Date: 2012.02.21 @ 06:45:00

End Date: 2012.02.21 @ 16:34:30

Job Ticket #: 45070 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.23 @ 15:32:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45070

DST#: 4

ATTN: Tom Funk

Test Start: 2012.02.21 @ 06:45:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:56:15

Time Test Ended: 16:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4623.00 ft (KB) To 4661.00 ft (KB) (TVD)

Reference Elevations: 3258.00 ft (KB)

Total Depth: 4661.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 602.75 psig @ 4624.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.21

End Date:

2012.02.21

Last Calib.:

2012.02.21

Start Time: 06:45:01

End Time:

16:34:30

Time On Btm:

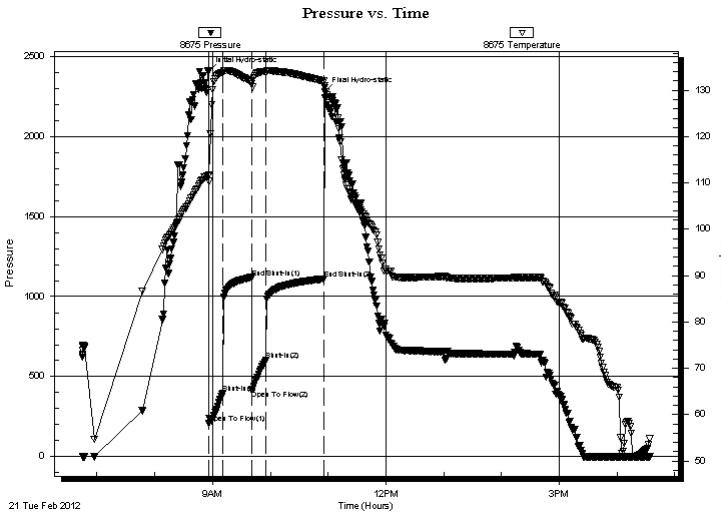
2012.02.21 @ 08:56:00

Time Off Btm:

2012.02.21 @ 10:56:45

TEST COMMENT: B.O.B. in 1 min.
Bled off for 5 min. B.O.B. in 2 min.
B.O.B. in 1 1/2 min.
Bled off for 5 min. B.O.B. in 3 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2407.28	111.54	Initial Hydro-static
1	210.10	110.35	Open To Flow (1)
15	393.99	133.81	Shut-In(1)
45	1119.08	131.88	End Shut-In(1)
45	413.16	131.49	Open To Flow (2)
60	602.75	133.98	Shut-In(2)
120	1110.32	132.02	End Shut-In(2)
121	2278.05	130.63	Final Hydro-static

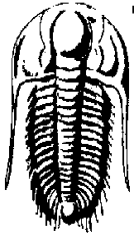
Recovery

Length (ft)	Description	Volume (bbl)
0.00	1503 Feet Gas In Pipe	0.00
1287.00	1287 100% Oil Drop the bar	18.05
186.00	w cmgo 10%W 30%M 30%G 30%O	2.61

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45070

DST#: 4

ATTN: Tom Funk

Test Start: 2012.02.21 @ 06:45:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:56:15

Time Test Ended: 16:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4623.00 ft (KB) To 4661.00 ft (KB) (TVD)

Reference Elevations: 3258.00 ft (KB)

Total Depth: 4661.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8650 Outside

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

Capacity: 8000.00 psig

Start Date: 2012.02.21

End Date:

2012.02.21

Last Calib.:

2012.02.21

Start Time: 06:45:01

End Time:

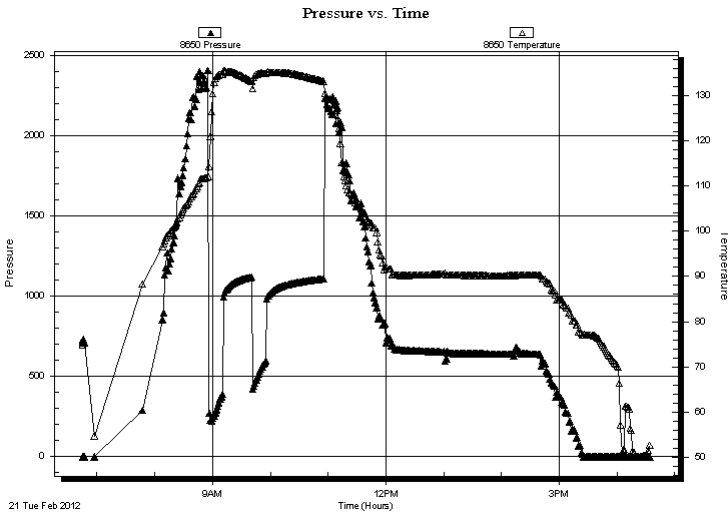
16:34:15

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 1 min.
Bled off for 5 min. B.O.B. in 2 min.
B.O.B. in 1 1/2 min.
Bled off for 5 min. B.O.B. in 3 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1503 Feet Gas In Pipe	0.00
1287.00	1287 100% Oil Drop the bar	18.05
186.00	w cmgo 10%W 30%M 30%G 30%O	2.61

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 Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45070

DST#: 4

ATTN: Tom Funk

Test Start: 2012.02.21 @ 06:45:00

Tool Information

Drill Pipe:	Length: 4608.61 ft	Diameter: 3.80 inches	Volume: 64.65 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.61 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4623.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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			4604.00	
Shut In Tool	5.00			4609.00	
Hydraulic tool	5.00			4614.00	
Packer	5.00			4619.00	20.00 Bottom Of Top Packer
Packer	4.00			4623.00	
Stubb	1.00			4624.00	
Recorder	0.00	8675	Inside	4624.00	
Recorder	0.00	8650	Outside	4624.00	
Perforations	34.00			4658.00	
Change Over Sub	0.00			4658.00	
Drill Pipe	0.00			4658.00	
Change Over Sub	0.00			4658.00	
Bullnose	3.00			4661.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45070

DST#: 4

ATTN: Tom Funk

Test Start: 2012.02.21 @ 06:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1503 Feet Gas In Pipe	0.000
1287.00	1287 100% Oil Drop the bar	18.053
186.00	w cmgo 10%W 30%M 30%G 30%O	2.609

Total Length: 1473.00 ft Total Volume: 20.662 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 39 @ 60 F = 39

Serial #: 8675

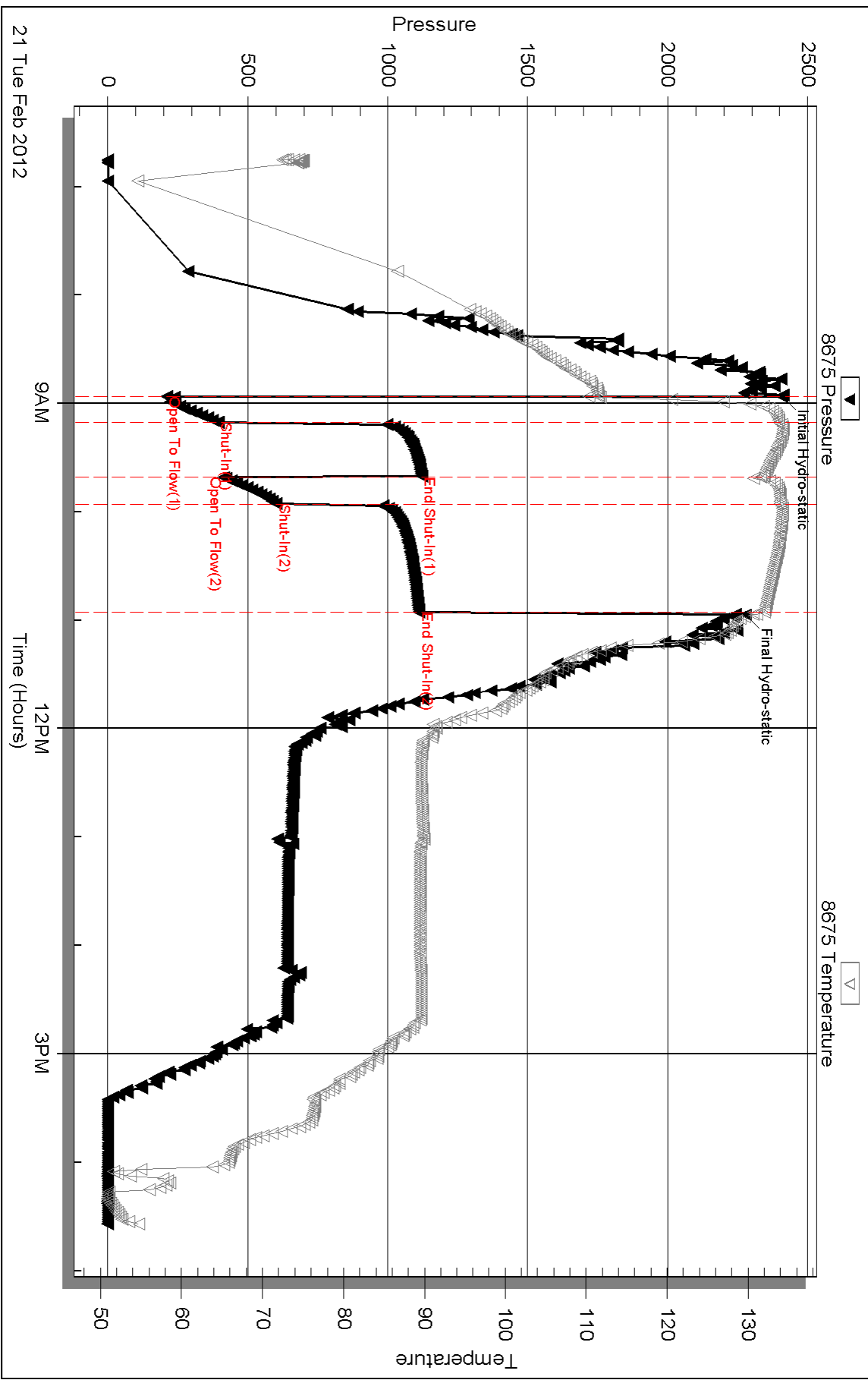
Inside

Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 4

Pressure vs. Time

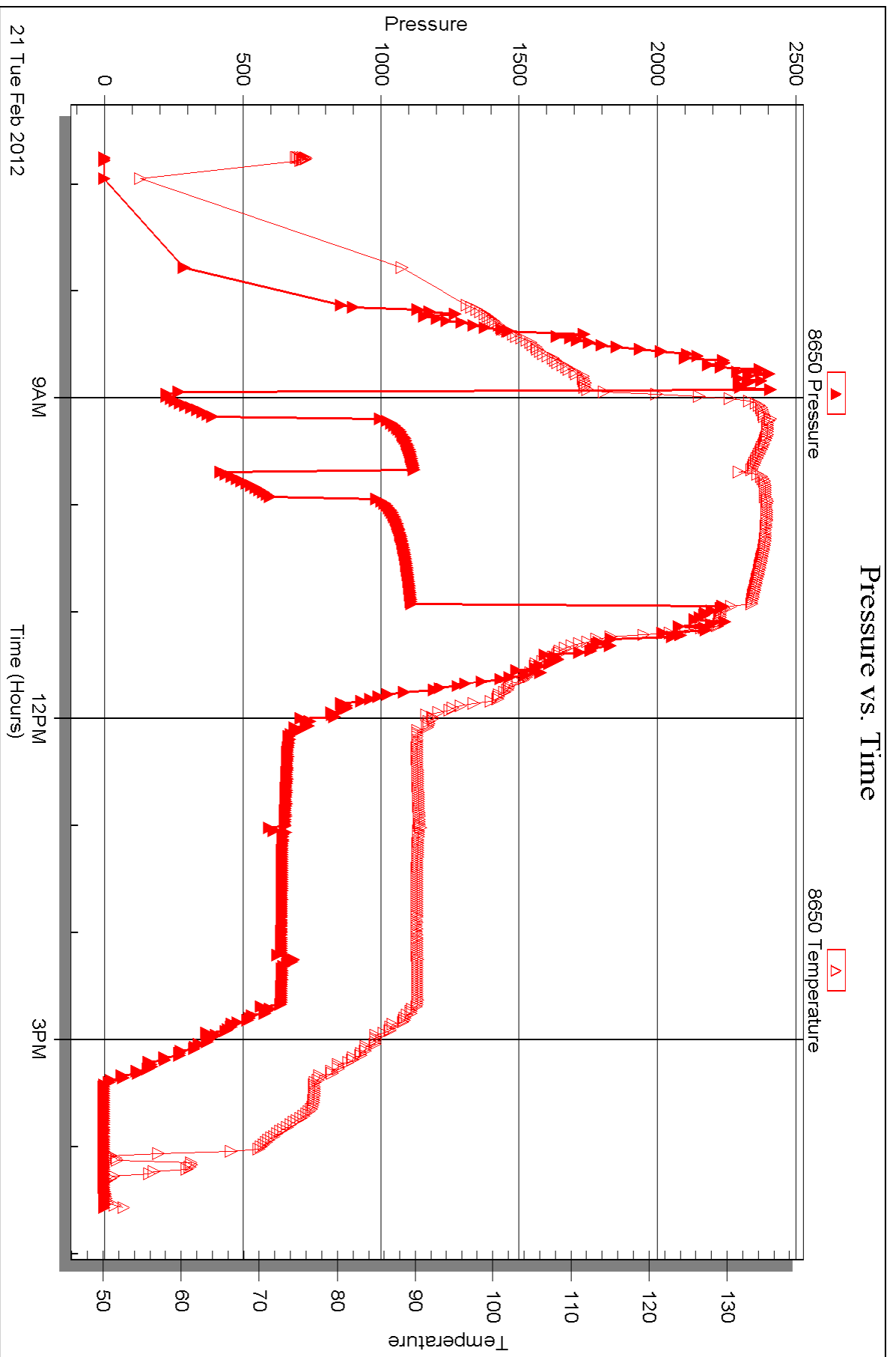


Serial #: 8650

Outside Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 4





DRILL STEM TEST REPORT

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

250 N Water Ste 300
Wichita KS 67202-1216

ATTN: Tom Funk

Kruto #1-29

29-10s-34w Thomas,KS

Start Date: 2012.02.22 @ 04:05:00

End Date: 2012.02.22 @ 13:06:15

Job Ticket #: 45071 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.23 @ 15:31:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45071

DST#: 5

ATTN: Tom Funk

Test Start: 2012.02.22 @ 04:05:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:41:15

Time Test Ended: 13:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4706.00 ft (KB) To 4762.00 ft (KB) (TVD)

Reference Elevations: 3258.00 ft (KB)

Total Depth: 4762.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 127.12 psig @ 4707.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.22

End Date:

2012.02.22

Last Calib.:

2012.02.22

Start Time: 04:05:01

End Time:

13:06:15

Time On Btm:

2012.02.22 @ 06:41:00

Time Off Btm:

2012.02.22 @ 10:46:45

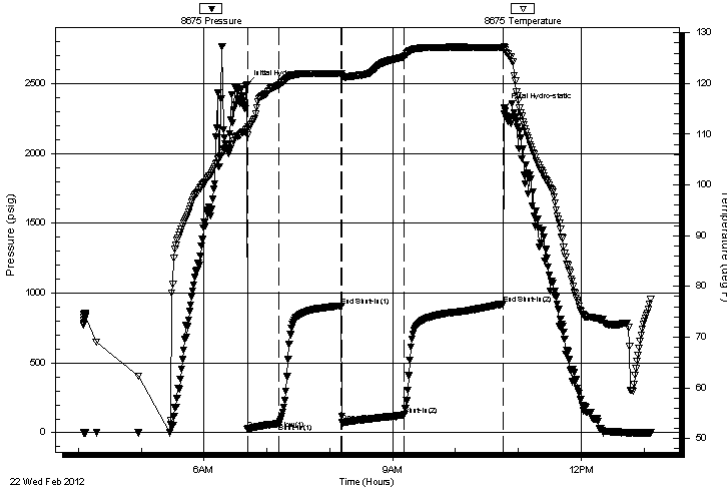
TEST COMMENT: B.O.B. in 15 min.

Bled off for 5 min. Built to 1" return blow

B.O.B. in 4 min.

Bled off for 5 min. Built to 2" return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2493.23	111.05	Initial Hydro-static
1	24.06	109.83	Open To Flow (1)
31	66.40	119.73	Shut-In(1)
90	909.30	122.02	End Shut-In(1)
91	73.26	121.62	Open To Flow (2)
150	127.12	125.30	Shut-In(2)
245	923.42	127.10	End Shut-In(2)
246	2326.00	126.99	Final Hydro-static

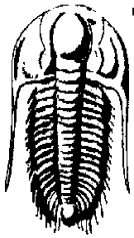
Recovery

Length (ft)	Description	Volume (bbl)
0.00	635 Feet Weak Gas In Pipe	0.00
289.00	mco 30%M 30%G 40%O	4.05

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

29-10s-34w Thomas, KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45071

DST#: 5

ATTN: Tom Funk

Test Start: 2012.02.22 @ 04:05:00

GENERAL INFORMATION:

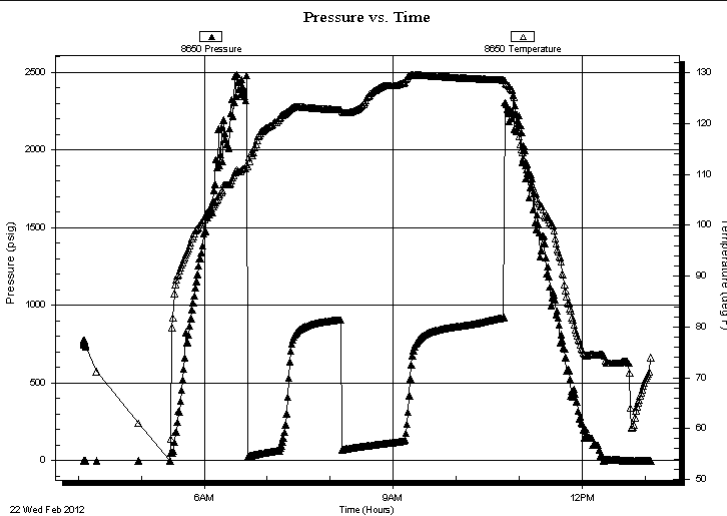
Formation: Johnson
Deviated: No **Whipstock:** ft (KB)
Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 06:41:15 **Tester:** Jace McKinney
Time Test Ended: 13:06:15 **Unit No:** 46
Interval: 4706.00 ft (KB) To 4762.00 ft (KB) (TVD) **Reference Elevations:** 3258.00 ft (KB)
Total Depth: 4762.00 ft (KB) (TVD) **3245.00 ft (CF)**
Hole Diameter: 7.88 inches **Hole Condition:** Fair **KB to GR/CF:** 13.00 ft

Serial #: 8650

Outside

Press @ Run Depth: psig @ 4707.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2012.02.22 **End Date:** 2012.02.22 **Last Calib.:** 2012.02.22
Start Time: 04:05:01 **End Time:** 13:06:00 **Time On Btm:**
Time Off Btm:

TEST COMMENT: B.O.B. in 15 min.
 Bled off for 5 min. Built to 1" return blow
 B.O.B. in 4 min.
 Bled off for 5 min. Built to 2" return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	635 Feet Weak Gas In Pipe	0.00
289.00	mogo 30%M 30%G 40%O	4.05

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 Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45071

DST#: 5

ATTN: Tom Funk

Test Start: 2012.02.22 @ 04:05:00

Tool Information

Drill Pipe:	Length: 4702.60 ft	Diameter: 3.80 inches	Volume: 65.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 65.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.60 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4706.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	76.00 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			4687.00	
Shut In Tool	5.00			4692.00	
Hydraulic tool	5.00			4697.00	
Packer	5.00			4702.00	20.00 Bottom Of Top Packer
Packer	4.00			4706.00	
Stubb	1.00			4707.00	
Recorder	0.00	8675	Inside	4707.00	
Recorder	0.00	8650	Outside	4707.00	
Perforations	19.00			4726.00	
Change Over Sub	1.00			4727.00	
Drill Pipe	31.00			4758.00	
Change Over Sub	1.00			4759.00	
Bullnose	3.00			4762.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

29-10s-34w Thomas,KS

250 N Water Ste 300
Wichita KS 67202-1216

Kruto #1-29

Job Ticket: 45071

DST#: 5

ATTN: Tom Funk

Test Start: 2012.02.22 @ 04:05:00

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: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	635 Feet Weak Gas In Pipe	0.000
289.00	mcgo 30%M 30%G 40%O	4.054

Total Length: 289.00 ft Total Volume: 4.054 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

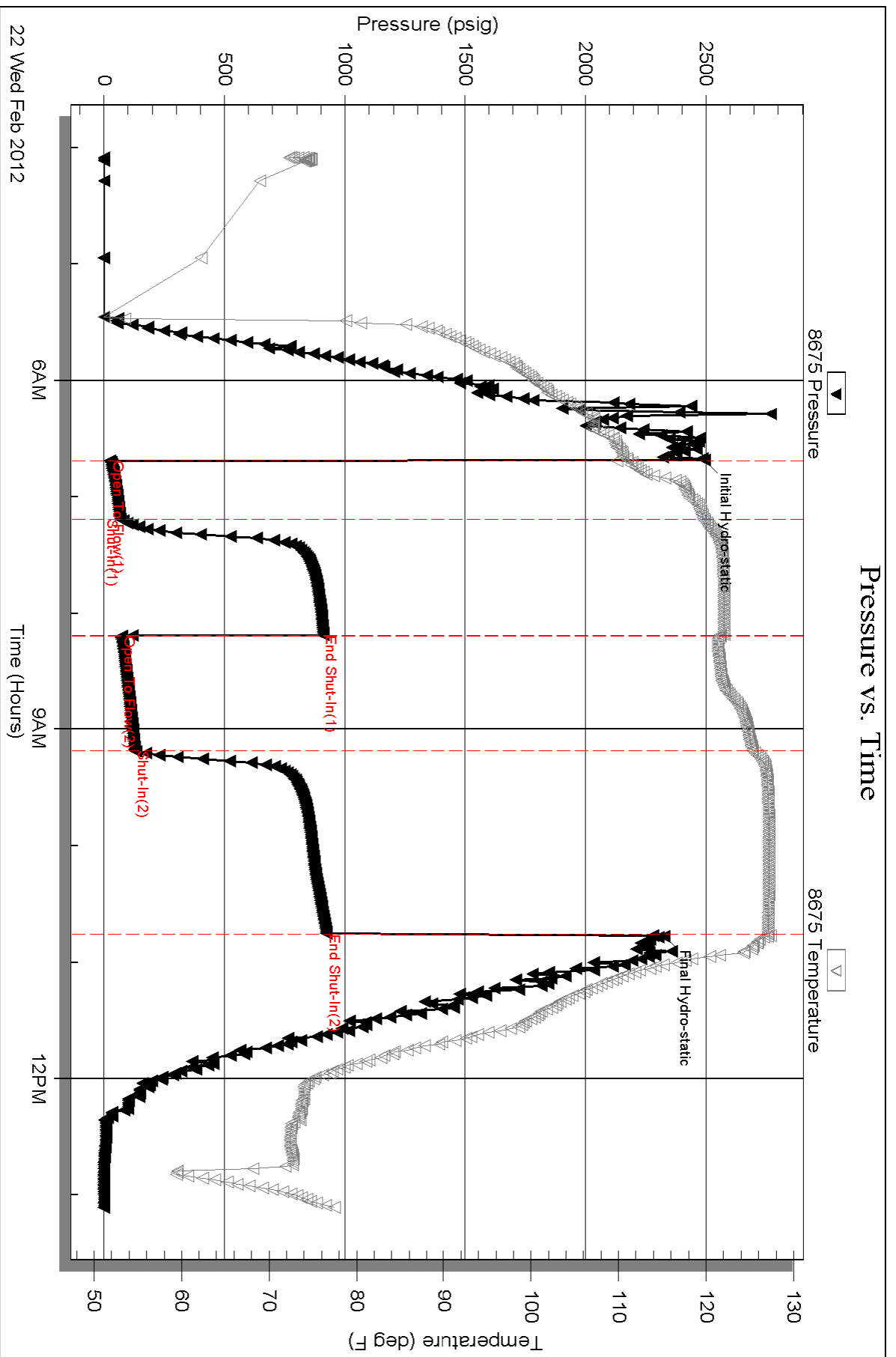
Serial #: 8675

Inside

Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 5

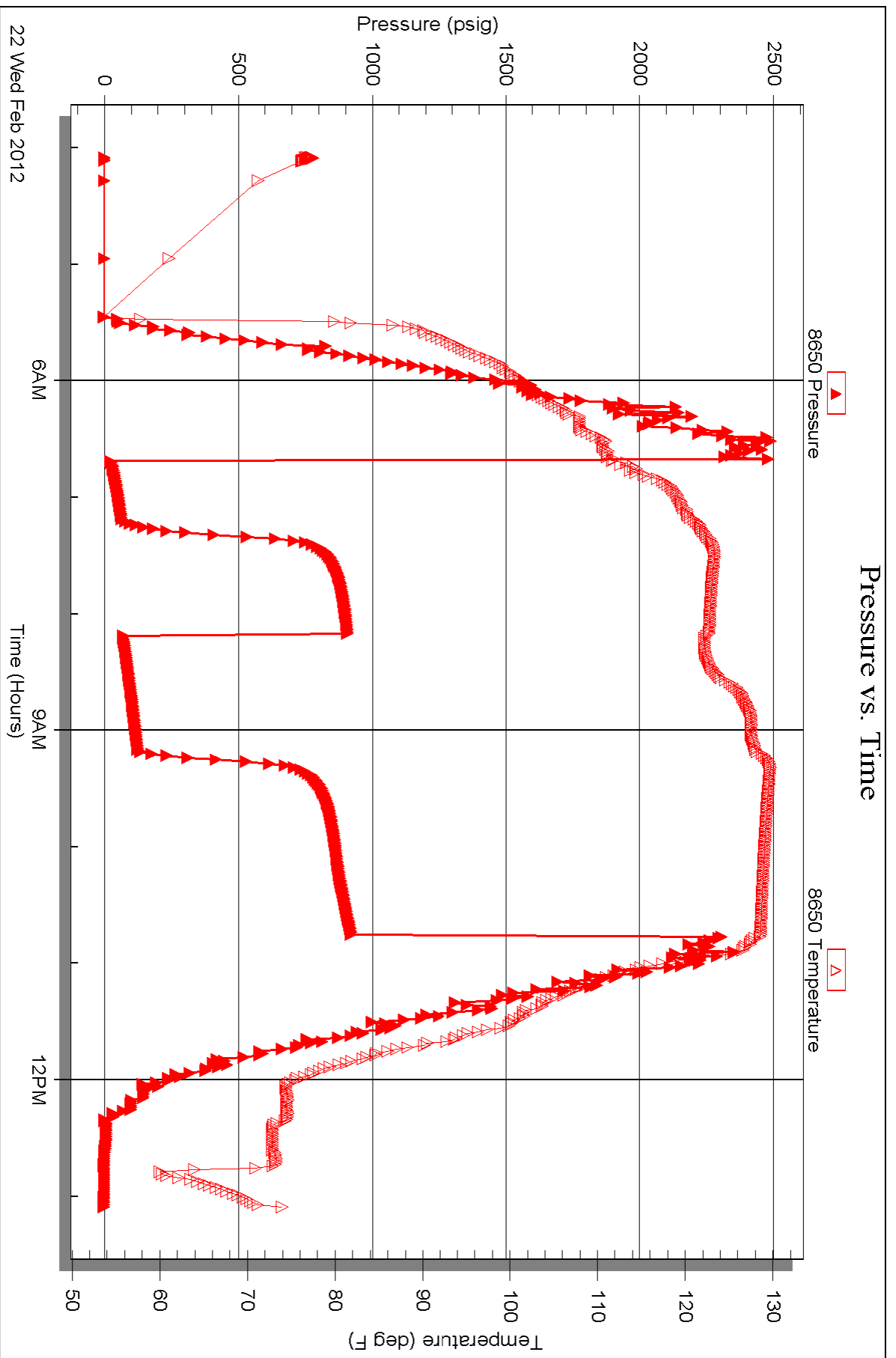


Serial #: 8650

Outside Murfin Drilling Company Inc.

Krulo #1-29

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 23 2012

Test Ticket

NO. 45067

4/10

BY: _____

Well Name & No. Kruto 1-29 Test No. 1 Date 2/18/12
 Company Martin Drilling Company INC Elevation 3258 KB 3245 GL
 Address 250 W Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Martin 25
 Location: Sec. 29 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4141 - 4180 Zone Tested Toronto
 Anchor Length 39 Drill Pipe Run 4137.04 Mud Wt. 9.1
 Top Packer Depth 4137 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 4141 Wt. Pipe Run 0 WL 7.2
 Total Depth 4180 Chlorides 9,800 ppm System LCM 96

Blow Description B.O.B. in 10 min.
Bled off for 5 min. No return blow
B.O.B. in 11 min.
Bled off for 5 min. No return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>196</u>	<u>Feet of MCW</u>			<u>70</u>	<u>30</u>
<u>372</u>	<u>Feet of water</u>			<u>100</u>	

Rec Total 568 BHT 124 Gravity — API RW 15 @ 50 ° F Chlorides 70,000 ppm

(A) Initial Hydrostatic 2,186 Test 1225 T-On Location 4:20
 (B) First Initial Flow 22 Jars _____ T-Started 4:55
 (C) First Final Flow 187 Safety Joint _____ T-Open 7:48
 (D) Initial Shut-In 1,249 Circ Sub N/C T-Pulled 10:48
 (E) Second Initial Flow 185 Hourly Standby _____ T-Out 13:09
 (F) Second Final Flow 327 Mileage 136 RT 190.40 Comments _____
 (G) Final Shut-In 1,245 Sampler _____
 (H) Final Hydrostatic 2,033 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1415.40
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1415.40

Approved By _____ Our Representative _____

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

RECEIVED
FEB 23 2012

Test Ticket

NO. 45068

4/10

BY: _____

Well Name & No. Kruto 1-29 Test No. 2 Date 2/19/12
 Company Murfin Drilling Company Inc. Elevation 3258 KB 3245 GL
 Address 250 W Water STE 300 Wichita KS 67202 - 1216
 Co. Rep / Geo. Tom Funk Rig Murfin 25
 Location: Sec. 29 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4315 - 4400 Zone Tested Kansas City "H, E, S"
 Anchor Length 85 Drill Pipe Run 4325 Mud Wt. 9.3
 Top Packer Depth 4311 Drill Collars Run 0 Vis 45
 Bottom Packer Depth 4315 Wt. Pipe Run 0 WL 7.2
 Total Depth 4400 Chlorides 9,700 ppm System LCM 7#

Blow Description B.O.B. in 16 min.
Bled off for 5 min. No return below
B.O.B. in 20 min.
Bled off for 5 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Feet bit</u>	<u>100</u>			
<u>186</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
<u>392</u>	<u>w</u>		<u>100</u>		

Rec Total 588 BHT 125 Gravity — API RW 0.15 @ 50 ° F Chlorides 70,000 ppm

(A) Initial Hydrostatic 2,189 Test 1225 T-On Location 9:20
 (B) First Initial Flow 29 Jars _____ T-Started 10:00
 (C) First Final Flow 142 Safety Joint _____ T-Open 12:05
 (D) Initial Shut-In 1,259 Circ Sub N/C T-Pulled 16:05
 (E) Second Initial Flow 137 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 291 Mileage 136 RT 190.40 Comments _____
 (G) Final Shut-In 1,236 Sampler _____
 (H) Final Hydrostatic 2,083 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1415.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1415.40

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

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 23 2012

Test Ticket

NO. 45069

Well Name & No. Krato 1-29 BY: _____ Test No. 3 Date 2/20/12
 Company Murfin Drilling Company Inc Elevation 3258 KB 3245 GL
 Address 250 W Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Murfin 25
 Location: Sec. 29 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4403-4427 Zone Tested Kansas City "K"
 Anchor Length 24 Drill Pipe Run 4388 Mud Wt. 9.3
 Top Packer Depth 4399 Drill Collars Run 0 Vis 45
 Bottom Packer Depth 4403 Wt. Pipe Run 0 WL 7.2
 Total Depth 4427 Chlorides 9,700 ppm System LCM 7#

Blow Description B.O.B. in 2 min.
Bled off for 5 min. Built to 1 1/2" return below
B.O.B. in 2 1/2 min.
Bled off for 5 min. Built to 3" return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>294</u>	<u>Oil</u>	<u>10</u>	<u>90</u>		
<u>186</u>	<u>OCG</u>	<u>60</u>	<u>40</u>		
<u>279</u>	<u>wcm60</u>	<u>30</u>	<u>40</u>	<u>10</u>	<u>20</u>
<u>279</u>	<u>CCOMW</u>	<u>10</u>	<u>10</u>	<u>60</u>	<u>20</u>
<u>372</u>	<u>Water</u>			<u>100</u>	

Rec Total 1410 BHT 129 Gravity 33 API RW .20 @ 50 °F Chlorides 50,000 ppm

- (A) Initial Hydrostatic 2,273
- (B) First Initial Flow 91
- (C) First Final Flow 386
- (D) Initial Shut-In 1,307
- (E) Second Initial Flow 409
- (F) Second Final Flow 618
- (G) Final Shut-In 1,299
- (H) Final Hydrostatic 2,191

- Test 1225'
- Jars _____
- Safety Joint _____
- Circ Sub N/C
- Hourly Standby _____
- Mileage 13 RT 190.40
- Sampler B Marked wrong thing
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1415.40

- T-On Location 1:00
- T-Started 2:00
- T-Open 4:11
- T-Pulled 7:11
- T-Out 10:54
- Comments 729 Feet Gas In Pipe
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1415.40
- MP/DST Disc't _____

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

Approved By _____ Our Representative _____
 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

RECEIVED
FEB 23 2012
By: _____

Test Ticket

NO. 45070

Well Name & No. Kruto 1-29 Test No. 4 Date 2/21/12
 Company Murfin Drilling Company Inc Elevation 3258 KB 3245 GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. ~~250 N Water~~ Tom Funk Rig Murfin 25
 Location: Sec. 29 Twp. 106 Rge. 34W Co. Thomas State KS

Interval Tested 4623-4641 Zone Tested Myric Station
 Anchor Length 38 Drill Pipe Run 4608 Mud Wt. 9.2
 Top Packer Depth 4619 Drill Collars Run 0 Vis 6.9
 Bottom Packer Depth 4623 Wt. Pipe Run 0 WL 7.2
 Total Depth 4641 Chlorides 9,900 ppm System LCM 7#

Blow Description B.O.B. in 1 min.
Bled off for 5 min. B.O.B. in 2 min.
B.O.B. in 1 1/2 min.
Bled off for 5 min. B.O.B. in 3 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1503 GIP</u>	<u>100</u>			
<u>1287</u>	<u>Oil</u>				
<u>186</u>	<u>wcm60</u>	<u>30</u>	<u>30</u>	<u>10</u>	<u>30</u>

Rec Total 1473 BHT 133 Gravity 39 API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 2,407
- (B) First Initial Flow 210
- (C) First Final Flow 394
- (D) Initial Shut-In 1,119
- (E) Second Initial Flow 413
- (F) Second Final Flow 603
- (G) Final Shut-In 1,110
- (H) Final Hydrostatic 2,278

- Test 1225'
- Jars
- Safety Joint
- Circ Sub Used 50'
- Hourly Standby
- Mileage 136 RT 190.46
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1465.40

- T-On Location 6:00
- T-Started 6:45
- T-Open 8:57
- T-Pulled 10:55
- T-Out 10:55

- Comments _____
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1465.40
- MP/DST Disc't _____

Initial Open 0.15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 60

Approved By [Signature] 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

RECEIVED
FEB 23 2012

Test Ticket

NO. 45071

4/10

BY: _____

Well Name & No. Kruto 1-29 Test No. 5 Date 2/22/12
 Company Martin Drilling Company Inc Elevation 3258 KB 3245 GL
 Address 250 W Water STE 300 Wichita KS 67202 - 1216
 Co. Rep / Geo. Tom Funk Rig Martin 25
 Location: Sec. 29 Twp. 10S Rge. 34W Co. Thomas State KS

Interval Tested 4706 - 4762 Zone Tested Johnson
 Anchor Length 56 Drill Pipe Run 4702.60 Mud Wt. 9.1
 Top Packer Depth 4702 Drill Collars Run 0 Vis 43
 Bottom Packer Depth 4706 Wt. Pipe Run 0 WL 7.6
 Total Depth 4762 Chlorides 8,600 ppm System LCM 5#

Blow Description B.O.B. in 15 min.
Bled off for 5 min. Built to 1" return blow
B.O.B. in 4 min.

Bled off for 5 min. Built to 2" return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>Feet of 635 feet weak gas in pipe</u>				
<u>289</u>	<u>Feet of m660</u>	<u>30%</u>	<u>40%</u>	<u>30%</u>	<u>30%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 289 BHT 127 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,493 Test 1225' T-On Location 3:00
 (B) First Initial Flow 24 Jars _____ T-Started 4:05
 (C) First Final Flow 6.6 Safety Joint _____ T-Open 6:41
 (D) Initial Shut-In 909 Circ Sub n/c T-Pulled 10:45
 (E) Second Initial Flow 73 Hourly Standby _____ T-Out 13:06
 (F) Second Final Flow 127 Mileage 186 RT 190.40 Comments _____
 (G) Final Shut-In 923 Sampler _____
 (H) Final Hydrostatic 2,326 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1415.40
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1415.40

Approved By _____ Our Representative _____

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

Jim H. acct.
MAIN OFFICE

P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 247838

Invoice Date: 02/15/2012 Terms: 15/15/30,n/30

Page 1

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

KRUTO 1-29
33881
29-10S-34W
2-14-2012
KS

OPERATOR PAY MDC

LEASE: _____

BM

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	225.00	17.6500	3971.25
1102	CALCIUM CHLORIDE (50#)	636.00	.8900	566.04
4310	SUGAR	50.00	.6000	30.00

Sublet Performed	Description	Total
9999-130	CASH DISCOUNT	-685.09
9999-130	CASH DISCOUNT	-235.50

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

USED FOR _____
APPROVED _____

OKM

Amount Due 6470.70 if paid after 03/16/2012

Parts:	4567.29	Freight:	.00	Tax:	283.40	AR	5500.10
Labor:	.00	Misc:	.00	Total:	5500.10		
Sublt:	-920.59	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 33881
LOCATION Oakley Ks
FOREMAN Kelly Gable
Walt Dulce



DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-14-12	5406	Kruto 1-29	29	10 ^s	34 ^w	Thomas
CUSTOMER MurFin Drlys Co, Inc			Page 2/4			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			5N-456-1118	miles Shaw		
STATE			1/4 W	Cory Davis		
ZIP CODE			1865			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 268' CASING SIZE & WEIGHT 8 5/8 - 23#
 CASING DEPTH 268' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15-20'
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Safety Meeting, Rig up on MurFin #25
Circ. Casing on bottom, mixed 225-sks com, 3% CC
Displace 15 3/4 BBL H₂O @ 150#, Shut in

Cement diel circ.
3-BBL in collar

5:25 A

Thanks You
Walt - Kelly + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085 ⁰⁰	1,085 ⁰⁰
5406	15	MILEAGE	5 ⁰⁰	75 ⁰⁰
11045	225- sks	Class A Cement	17 ⁶⁵	3,971 ²⁵
1102	636 #	CC	.89	566 ⁰⁴
5407	10.58	Ton Mileage Delivery	1.67	410 ⁰⁰
4310	50 #	Sugar	30 ⁰⁰	30 ⁰⁰
				6,137 ²⁹
		Less 15% Disc		920 ⁹⁹
				5,216 ⁷⁰
		247838	SALES TAX	283.40
			ESTIMATED TOTAL	5500.10

Ravin 3737

AUTHORIZATION [Signature] TITLE Tool Pusher DATE _____

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.



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



Acchy -

cc WT
cc 81
Scambin

Invoice

DATE	INVOICE #
3/1/2012	21293

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	#1-29	Kruto	Thomas	Company Rig	Oil	Development	Cement Port Collar	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	90	Miles	6.00	540.00
576D-D	Pump Charge - Port Collar - 2757 Feet	1	Job	1,250.00	1,250.00
290	D-Air	2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)	200	Sacks	16.50	3,300.00T
276	Flocele	50	Lb(s)	2.00	100.00T
581D	Service Charge Cement	350	Sacks	2.00	700.00
583D	Drayage	1,567.28	Ton Miles	1.00	1,567.28
	Subtotal				7,527.28
	Sales Tax Thomas County			7.30%	253.31

USED FOR IC 103
APPROVED JM A

We Appreciate Your Business!	Total	\$7,780.59
-------------------------------------	--------------	------------



CHARGE TO: Wheaton Drilling Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No 21293

PAGE 1 OF 1

1. <u>Hess KS</u>	WELL/PROJECT NO. <u>1399</u>	LEASE <u>Krute</u>	COUNTY/PARISH <u>Thomas</u>	STATE <u>KS</u>	CITY	DATE <u>3-1-12</u>	OWNER
2. <u>Ness City KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	CONTRACTOR <u>18-Rig</u>	RIG NAME NO.	SHIPPED VIA <u>317</u>	DELIVERED TO <u>N/E Depot, KS</u>	ORDER NO.	
3.	WELL TYPE <u>D11</u>	WELL CATEGORY <u>151600</u>	JOB PURPOSE <u>Revent WTA/1600000</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	ACCOUNTING			UNIT PRICE	AMOUNT
						QTY.	UM	QTY.		
575		1			MILEAGE #113	92	mi		600	54900
576 D		1			Pump Change - cut Partials	1	ea	2572	14	135728
291		1			D-Air	2	gal		3572	7000
330		2			SWD Revent	200	gal	19853	16	330000
276		2			Fluor	52	lbs		200	10000
581		2			Service Charge - Revent	357	hrs	316	165	20000
583		2			Drayage	1527	hrs	74	112	156738
REMIT PAYMENT TO:						PAGE TOTAL			758758	
SWIFT SERVICES, INC.						TOTAL			778059	

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 [Signature] TIME SIGNED A.M. P.M.

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? YES NO

CUSTOMER DID NOT WISH TO RESPOND

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

SWIFT OPERATOR APPROVAL

Thomas TAX 7.37%

778059

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3-1-12 PAGE NO. 7

CUSTOMER Murphy Drilling Co WELL NO. 1-29 LEASE Kroto JOB TYPE Leasehold Pit Casing TICKET NO. 21293

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	10:45							On location
								P.C @ 2757'
	09:15					C 1200		Test P.C Closed - 1200# - DK
		3				400		Open P.C. Est. rate/psi - Have blow hole to top.
		3				400 600		Start H.D. 3 BBI - Have circ
		3 1/2	3			500		Start SMD cut @ 11.2"
		4	100			600		cut circ @ 180 sks
						400		Inc. cut to 13" for 20 sks
			107			400		Fin cut - Displ 14 BBI H ₂ O
			(14)			500		Fin Displ
							1200	Close P.C of test - DK
								Run lost.
		4				400 370		Re-run out 2 flags - Clean
			40			300		Fin Re-run out
								Washing & Re-ackup
	11:08							Job Complete
								<p><i>[Signature]</i> Ben, Brian & Bob</p>
								200 sks used

Liz



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



Invoice

DATE	INVOICE #
2/23/2012	21289

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	#1-29	Kruto	Thomas	Murfin Drilling	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	6.00	540.00
578D-L	Pump Charge - Long String - 4892 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				3	Gallon(s)	35.00	105.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar - 2762 Feet				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				15	Each	40.00	600.00T
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				57	Lb(s)	2.00	114.00T
283	Salt				1,125	Lb(s)	0.20	225.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				159	Lb(s)	4.00	636.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				1,059.71	Ton Miles	1.00	1,059.71
Subtotal								15,052.21
Sales Tax Thomas County							7.30%	839.68
USED FOR						<i>LC 03</i>		
APPROVED						<i>[Signature]</i>		
We Appreciate Your Business!						Total		\$15,891.89



CHARGE TO: Merwin D-Log Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No 21289

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Thurs. KS WELL/PROJECT NO. 1-29 LEASE Krato COUNTY/PARISH Texas STATE KS CITY DATE 2-23-12 OWNER
 2. Ness City, KS TICKET TYPE SALES CONTRACTOR Merwin D-Log RIG NAME/NO. #25- SHIPPED VIA CT DELIVERED TO N/200 City, KS ORDER NO.
 3. WELL TYPE WELL CATEGORY Oil WELL PURPOSE Revent Longstring WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #113	92	mi			620	570.00
578					Ramp Charge - cut Longstring	1	ea			1500.00	1500.00
221					Liquid RLL	1	gal			9500	1000.00
282					Flocheck-21	500	gal			250	12500.00
292					D. Air	3	gal			3500	10500
423					Revent Baskets	2	ea			2500	5000
424					Rent Galls	1	ea			2400.00	2400.00
426					Latel Dravin Plug & Battle	1	ea			2500.00	2500.00
427					Inset Fleet Shoe Lay/Deck-411	1	ea			3500.00	3500.00
429					Turbolizers	15	ea			9000	13500.00
413					Retail Seal Suckers	15	ea			7000	10500.00
419					Retailing Head Rental	1	ea			2000.00	2000.00

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 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 X Buck Shea
 DATE SIGNED 2-23-12 TIME SIGNED 1700 A.M. P.M.
 REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300
 SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 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? YES NO
 CUSTOMER DID NOT WISH TO RESPOND
 Thomas TAX 839.68
 TOTAL 15,891.89
 Thank You!

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



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

TICKET CONTINUATION

TICKET No. 21389

CUSTOMER *Martin Dagle*

WELL 1-29 Kuto

DATE 2-23-12

PAGE 2 OF 3

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY.	UM			QTY.	UM
285		2				Standard Cement EH-2	285	Sks	2152	Lbs	1350	3037.50
276		2				Flux	57	Lbs			200	114.00
283		2				Salt	1185	Lbs			30	225.00
284		2				Colocent	11	Sks	1058	Lbs	35.00	385.00
285		2				PER-1	159	Lbs			4.00	636.00
581		2									225	450.00
583		2									1159.71	1059.71

SERVICE CHARGE *Cement*
MILEAGE CHARGE
TOTAL WEIGHT 23579 lbs
LOADED MILES 90
CUBIC FEET 225 Sks
TON MILES 1159.71 Tm
CONTINUATION TOTAL 5927.21

JOB LOG

SWIFT Services, Inc.

DATE 2-23-12 PAGE NO. 1

CUSTOMER Martin Drilling Co. WELL NO. 1-29 LEASE Kruto JOB TYPE Cement Lining TICKET NO. 31289

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
<u>2/23</u>	<u>1645</u>					<u>15.5 #</u>	<u>5 1/2"</u>	<u>TD 4915</u> <u>DN location with F.E.</u> <u>Rig LD-D.C.</u>
	<u>1945</u>							<u>start casing to 4892'</u> <u>Insert Float Shoe (w) Auto-fill</u> <u>L.D. Baffle - SJ-20 1/2' @ 4871 = 116 BBL</u> <u>Coat - 1 thru 14 - 50 Bkt Per end 50+51</u> <u>P.C. #51 collar @ 2762</u> <u>Cir 1/2 way in #57</u> <u>Drop ball - 5 Jts out</u>
	<u>2130</u> <u>2200</u>							<u>Fin run casing - Tag bottom?</u> <u>Start cir/rotate - Dasco-mud 1 HR.</u>
	<u>2310</u> <u>2320</u> <u>2330</u>	<u>- cir</u>						<u>Fin cir / Hook to Swift</u>
<u>2/24</u>	<u>0030</u>							<u>500 Pump 15 BBL KCL flush</u> <u>400 Pump 500 gal Flochoc-21</u> <u>700 Pump 5 BBL KCL Spacer</u> <u>300 Start 175 SKs EA-2 cut @ 15.5 #/gal</u> <u>300 Fin cut - Wash out Pump & Lines</u> <u>700 Drop h.D. Plug - Start Displ (116)</u> <u>400 First 15 BBL KCL WTR</u> <u>400 Caught left press - gradually</u> <u>300 slow rate</u> <u>400 Plug Down - Hold release & hold</u> <u>1035</u> <u>1700 Plug RH 30 SKs MH 20 SKs (EA-2)</u> <u>Wash up & Pack up TRS</u> <u>Job Complete</u>
	<u>0130</u>	<u>5</u> <u>5</u> <u>5</u> <u>4 1/2</u> <u>4</u> <u>9</u> <u>9</u> <u>9</u> <u>7</u> <u>6</u> <u>5 1/2</u>	<u>15</u> <u>12</u> <u>5</u> <u>43</u> <u>90</u>					
	<u>0200</u>	<u>0</u>	<u>116</u> <u>75</u>					

[Signature]
 Non-Bright Job