



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1082867
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
-----------------------------------	-----------------	---

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: _____

1082867

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: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Ruda 'B' 1-22
Doc ID	1082867

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3898 - 3902 Toronto		
4	3986 - 3990 LKC "F"	500 gal 15% MCA, 750 gal 15% NEFE	
4	4080 - 4084 LKC "J"	250 gal 15% MCA, 1000 gal 15% NEFE	
4	4270 - 4276 Pawnee	250 gal 15% MCA	
4	4314 - 4319 Lower Pawnee	250 gal 15% MCA	
4	4515 - 4520 Mississippi	250 gal 15% MCA	

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

June 01, 2012

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

Re: ACO1
API 15-153-20895-00-00
Ruda 'B' 1-22
NW/4 Sec.22-04S-33W
Rawlins 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

Ruda 'B' #1-22 1290' FNL 1750'FWL Sec. 22-4S-33W 2988' KB						Franklin #1 Fred E Gee Interests Sec. 22-4S-33W 3021' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2675	+313	+5	2679	+309	+1	2713	+308
B/Anhydrite	2710	+278	+5	2715	+273	Flat	2748	+273
Topeka	3697	-709	+4	3700	-712	+1	3734	-713
Heebner	3861	-873	+6	3866	-878	+1	3900	-879
Lansing	3900	-912	+7	3908	-920	-1	3940	-919
Stark	4084	-1096	+3	4095	-1107	-8	4120	-1099
BKC	4134	-1146	+2	4143	-1155	-7	4169	-1148
Pawnee	4266	-1278	+2	4269	-1281	-1	4301	-1280
Cherokee	4338	-1350	+3	4348	-1360	-7	4374	-1353
Mississippi	4512	-1524	-23	4514	-1526	-25	4522	-1501
RTD	4603	-1615						
LTD				4606	-1618		4600	



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Ruda 'B' # 1-22

22-4s-33w Rawlins,KS

Start Date: 2012.02.20 @ 15:16:00

End Date: 2012.02.20 @ 23:59:45

Job Ticket #: 45131 DST #: 1

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

Printed: 2012.03.08 @ 14:35:56

Murfin Drilling Co. 22-4s-33w Rawlins,KS Ruda 'B' # 1-22 DST # 1 Toronto - Lansing "D" 2012.02.20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Rocky Milford

22-4s-33w Rawlins, KS
Ruda 'B' # 1-22
 Job Ticket: 45131 **DST#: 1**
 Test Start: 2012.02.20 @ 15:16:00

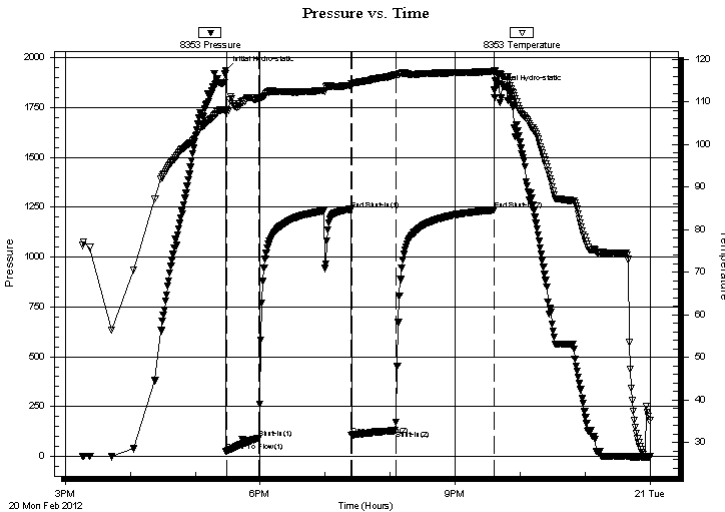
GENERAL INFORMATION:

Formation: **Toronto - Lansing "D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 17:29:15 Tester: Will MacLean
 Time Test Ended: 23:59:45 Unit No: 55
 Interval: **3860.00 ft (KB) To 3958.00 ft (KB) (TVD)** Reference Elevations: 2988.00 ft (KB)
 Total Depth: 3958.00 ft (KB) (TVD) 2983.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8353 Outside
 Press @ Run Depth: 130.31 psig @ 3861.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.20 End Date: 2012.02.20 Last Calib.: 2012.02.21
 Start Time: 15:16:00 End Time: 23:59:45 Time On Btm: 2012.02.20 @ 17:28:15
 Time Off Btm: 2012.02.20 @ 21:36:15

TEST COMMENT: IF- Surface Blow Built to 3 1/4"
 IS- No Blow
 FF- Weak Surface Blow in 28 min Built to 1 3/4"
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.44	108.11	Initial Hydro-static
1	25.89	108.08	Open To Flow (1)
31	92.81	110.87	Shut-In(1)
116	1239.51	113.89	End Shut-In(1)
116	107.00	114.23	Open To Flow (2)
157	130.31	116.42	Shut-In(2)
248	1236.21	117.15	End Shut-In(2)
248	1838.03	117.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 20%w 80%m	0.59
60.00	WCM 3%w 97%m	0.30
62.00	100%m	0.82

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 45131

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.02.20 @ 15:16:00

Tool Information

Drill Pipe:	Length: 3661.00 ft	Diameter: 3.80 inches	Volume: 51.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 52.26 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3860.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	125.00 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			3834.00	
Shut In Tool	5.00			3839.00	
Hydraulic tool	5.00			3844.00	
Jars	5.00			3849.00	
Safety Joint	2.00			3851.00	
Packer	5.00			3856.00	27.00 Bottom Of Top Packer
Packer	4.00			3860.00	
Stubb	1.00			3861.00	
Recorder	0.00	8353	Outside	3861.00	
Recorder	0.00	8368	Inside	3861.00	
Perforations	27.00			3888.00	
Change Over Sub	1.00			3889.00	
Drill Pipe	63.00			3952.00	
Change Over Sub	1.00			3953.00	
Bullnose	5.00			3958.00	98.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 45131

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.02.20 @ 15:16:00

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:

26500 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	WCM 20%w 80%m	0.590
60.00	WCM 3%w 97%m	0.295
62.00	100%m	0.815

Total Length: 242.00 ft Total Volume: 1.700 bbl

Num Fluid Samples: 0

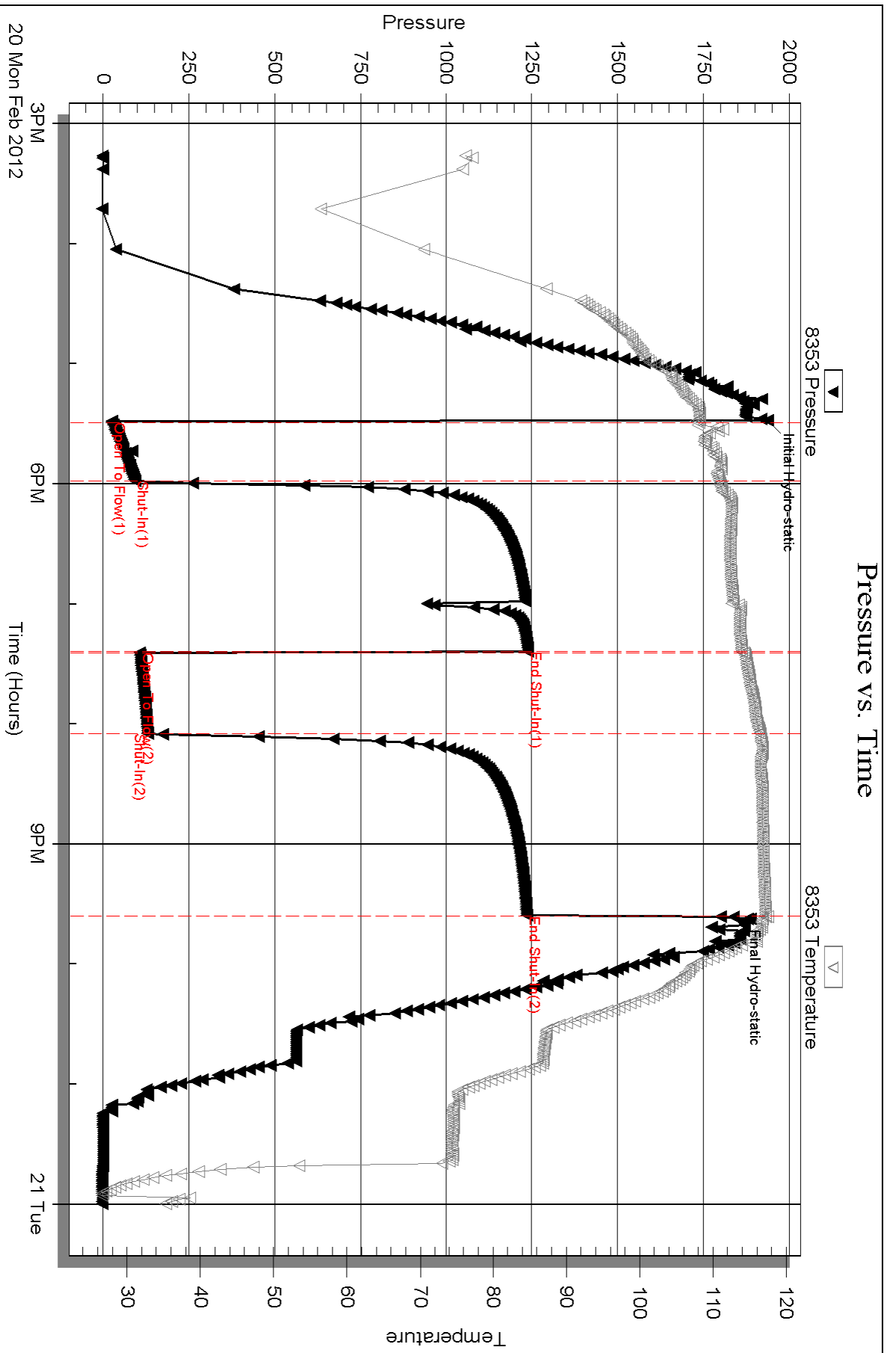
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .488 @ 36f = 26500



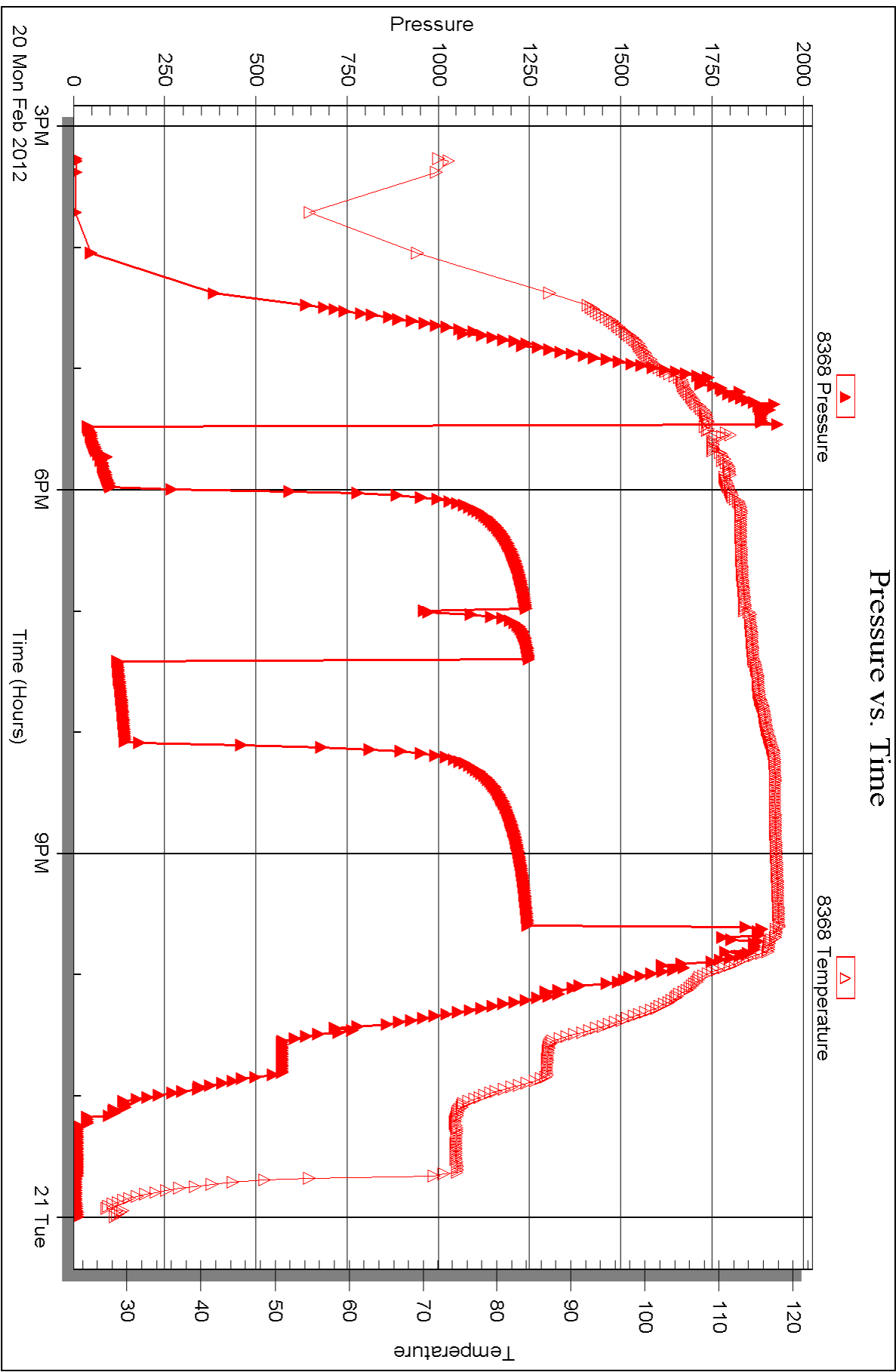
Serial #: 8368

Inside

Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Ruda 'B' # 1-22

22-4s-33w Rawlins,KS

Start Date: 2012.02.21 @ 11:59:00

End Date: 2012.02.21 @ 20:06:45

Job Ticket #: 45132 DST #: 2

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

Printed: 2012.03.08 @ 14:33:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Rocky Milford

22-4s-33w Rawlins, KS
Ruda 'B' # 1-22
 Job Ticket: 45132 **DST#: 2**
 Test Start: 2012.02.21 @ 11:59:00

GENERAL INFORMATION:

Formation: **Lansing E-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:12:15
 Time Test Ended: 20:06:45
 Interval: **3956.00 ft (KB) To 4015.00 ft (KB) (TVD)**
 Total Depth: 4015.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 55
 Reference Elevations: 2988.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 5.00 ft

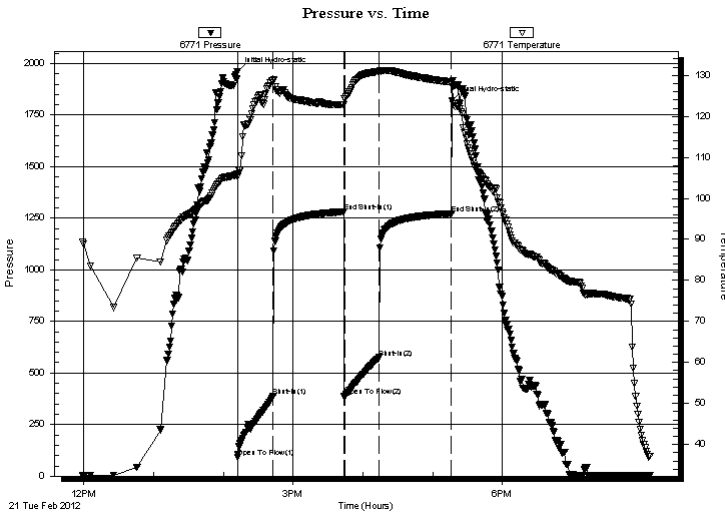
Serial #: 6771

Inside

Press @ Run Depth: 574.19 psig @ 3957.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.21 End Date: 2012.02.21 Last Calib.: 2012.02.21
 Start Time: 11:59:00 End Time: 20:06:45 Time On Btm: 2012.02.21 @ 14:12:00
 Time Off Btm: 2012.02.21 @ 17:16:30

TEST COMMENT: IF- Surface Blow Built to BOB in 5 3/4min
 IS- No Blow
 FF- Surface Blow Built to BOB in 6 1/4
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1962.00	105.92	Initial Hydro-static
1	92.10	105.33	Open To Flow (1)
31	387.45	128.82	Shut-In(1)
92	1281.48	122.79	End Shut-In(1)
93	386.77	124.19	Open To Flow (2)
122	574.19	130.91	Shut-In(2)
184	1272.70	128.30	End Shut-In(2)
185	1820.48	128.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	MCW 5%w 95%w	1.78
434.00	MCW 20%w 80%w Skim of Oil on Top	6.09
186.00	WCM 8%w 92%w Skim of Oil on Top	2.61
288.00	WCM 4%w 96%w Skim of Oil on Top	4.04

* 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.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 45132

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.02.21 @ 11:59:00

Tool Information

Drill Pipe:	Length: 3764.00 ft	Diameter: 3.80 inches	Volume: 52.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3956.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 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			3937.00	
Shut In Tool	5.00			3942.00	
Hydraulic tool	5.00			3947.00	
Packer	5.00			3952.00	20.00 Bottom Of Top Packer
Packer	4.00			3956.00	
Stubb	1.00			3957.00	
Recorder	0.00	6771	Inside	3957.00	
Recorder	0.00	8368	Outside	3957.00	
Perforations	20.00			3977.00	
Change Over Sub	1.00			3978.00	
Drill Pipe	31.00			4009.00	
Change Over Sub	1.00			4010.00	
Bullnose	5.00			4015.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 45132

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.02.21 @ 11:59:00

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:

51000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	MCW 5%m 95%w	1.784
434.00	MCW 20%m 80%w Skim of Oil on Top	6.088
186.00	WCM 8%w 92%m Skim of Oil on Top	2.609
288.00	WCM 4%w 96%m Skim of Oil on Top	4.040

Total Length: 1156.00 ft Total Volume: 14.521 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .233 @ 44f = 51000

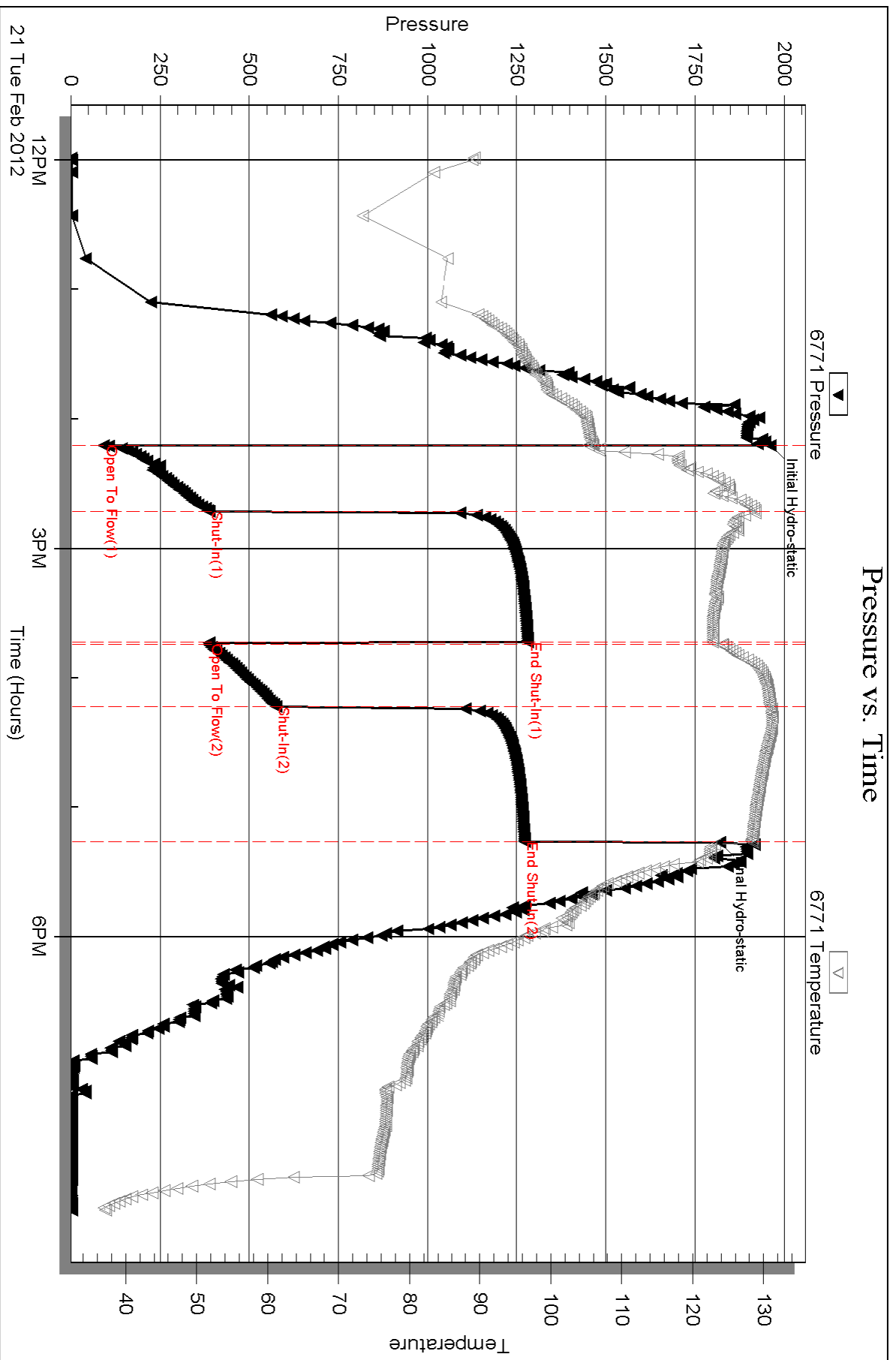
Serial #: 6771

Inside

Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45132

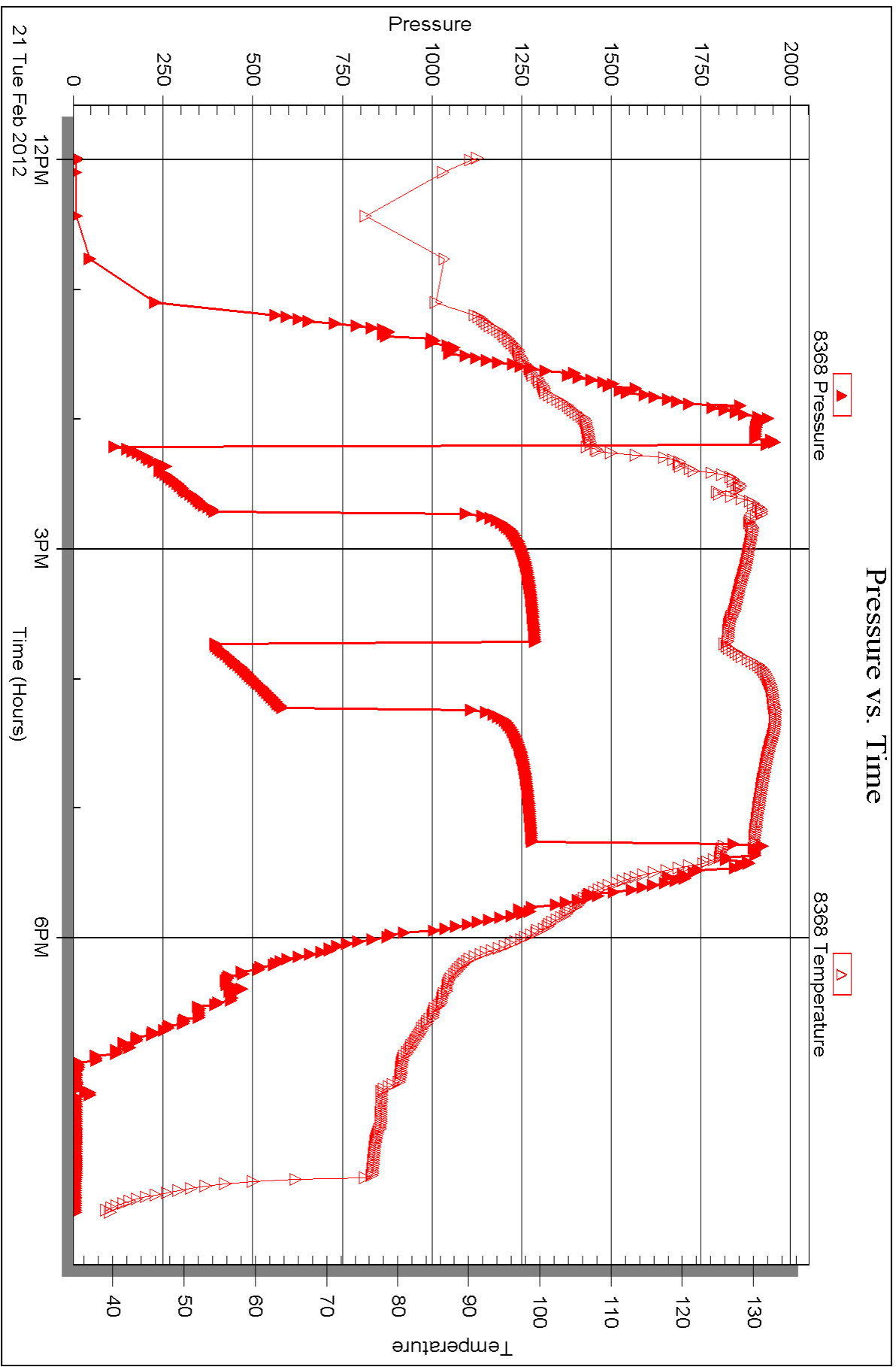
Printed: 2012.03.08 @ 14:34:00

Serial #: 8368

Outside Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Ruda 'B' # 1-22

22-4s-33w Rawlins,KS

Start Date: 2012.02.22 @ 07:30:00

End Date: 2012.02.22 @ 15:47:00

Job Ticket #: 042043 DST #: 3

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

Printed: 2012.03.08 @ 14:31:25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Rocky Milford

22-4s-33w Rawlins, KS
Ruda 'B' # 1-22
Job Ticket: 042043 **DST#: 3**
Test Start: 2012.02.22 @ 07:30:00

GENERAL INFORMATION:

Formation: **LKC-H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:40:30
Time Test Ended: 15:47:00
Interval: **4012.00 ft (KB) To 4088.00 ft (KB) (TVD)**
Total Depth: 4088.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 2988.00 ft (KB)
2983.00 ft (CF)
KB to GR/CF: 5.00 ft

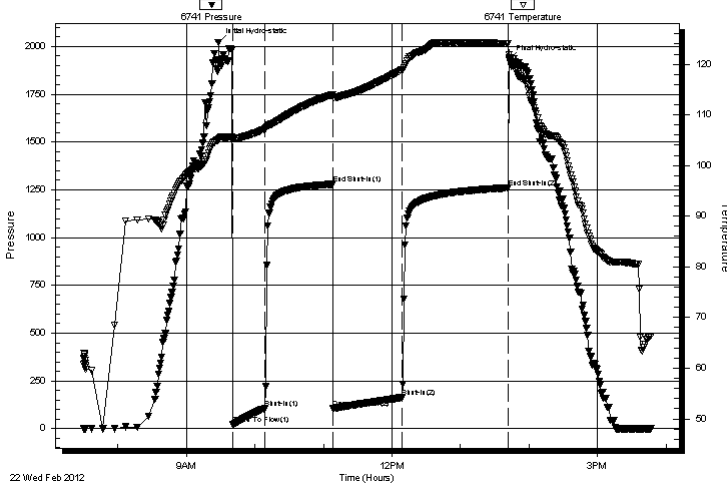
Serial #: 6741

Inside

Press @ Run Depth: 162.60 psig @ 4016.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.22 End Date: 2012.02.22 Last Calib.: 2012.02.22
Start Time: 07:30:05 End Time: 15:46:59 Time On Btm: 2012.02.22 @ 09:28:00
Time Off Btm: 2012.02.22 @ 13:43:00

TEST COMMENT: IF: Weak blow, Built to 5 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow, Built to 7 in. over 60 mins.
FS: No blow back over 90 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.59	105.03	Initial Hydro-static
13	21.52	105.32	Open To Flow (1)
41	104.70	107.21	Shut-In(1)
100	1279.72	113.96	End Shut-In(1)
101	106.62	113.55	Open To Flow (2)
161	162.60	118.83	Shut-In(2)
254	1260.23	124.12	End Shut-In(2)
255	1932.73	121.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw -20% m 80% w	0.59
120.00	w cm-25% w 75% m	1.08
10.00	mud-100% m	0.14

* 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.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 042043

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.02.22 @ 07:30:00

Tool Information

Drill Pipe:	Length: 3809.00 ft	Diameter: 3.80 inches	Volume: 53.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.34 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4012.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.48 ft			
Tool Length:	103.48 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3986.00	
Shut In Tool	5.00			3991.00	
Hydraulic tool	5.00			3996.00	
Jars	5.00			4001.00	
Safety Joint	2.00			4003.00	
Packer	5.00			4008.00	27.00 Bottom Of Top Packer
Packer	4.00			4012.00	
Stubb	1.00			4013.00	
Perforations	3.00			4016.00	
Recorder	0.00	6752	Outside	4016.00	
Recorder	0.00	6741	Inside	4016.00	
Change Over Sub	0.60			4016.60	
Drill Pipe	63.28			4079.88	
Change Over Sub	0.60			4080.48	
Perforations	5.00			4085.48	
Bullnose	3.00			4088.48	76.48 Bottom Packers & Anchor
Total Tool Length:	103.48				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 042043

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.02.22 @ 07:30:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 34000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	mcw -20% m80%w	0.590
120.00	w cm-25%w 75%m	1.082
10.00	mud-100%m	0.140

Total Length: 250.00 ft

Total Volume: 1.812 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

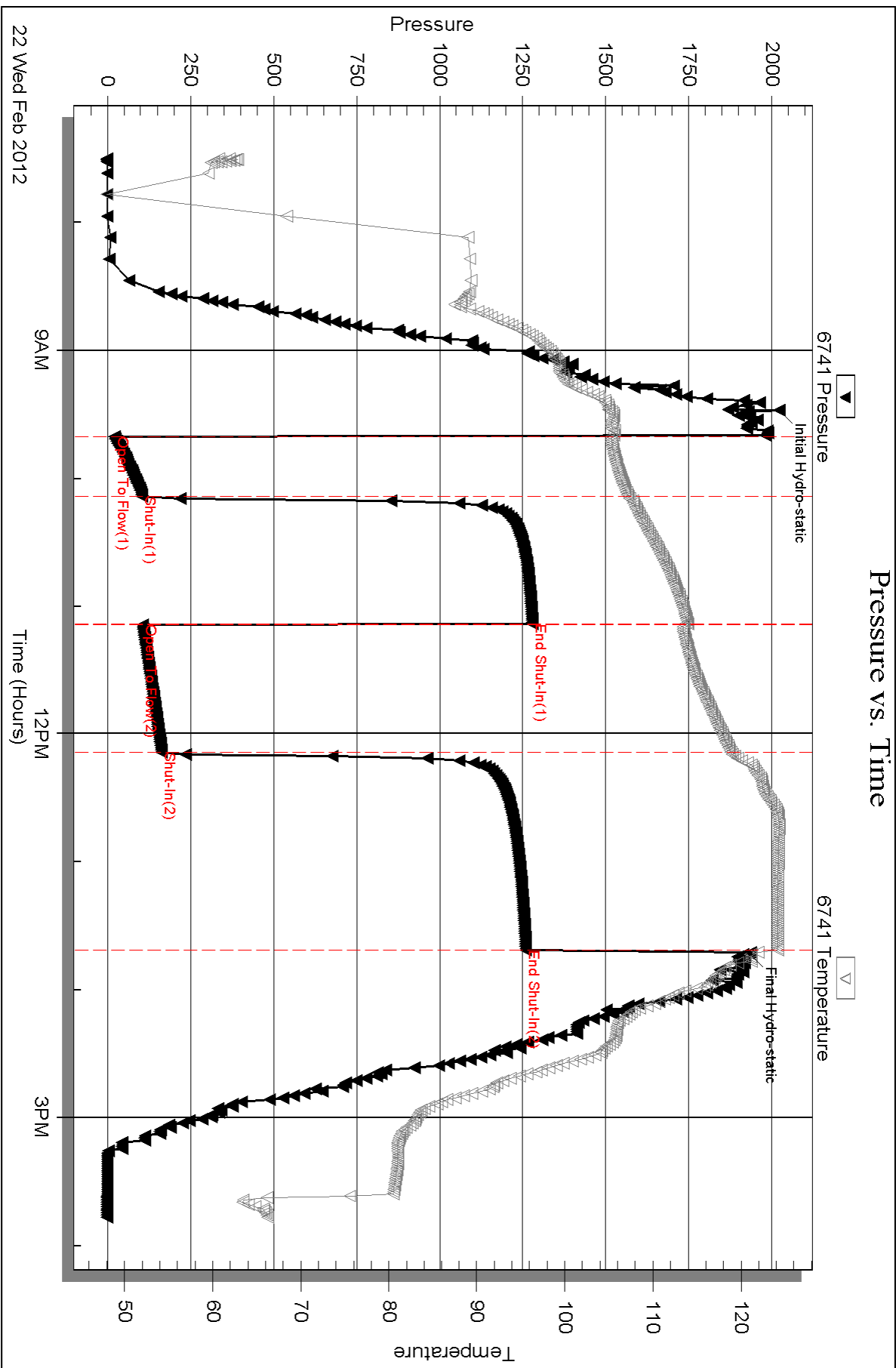
Serial #: 6741

Inside

Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 3

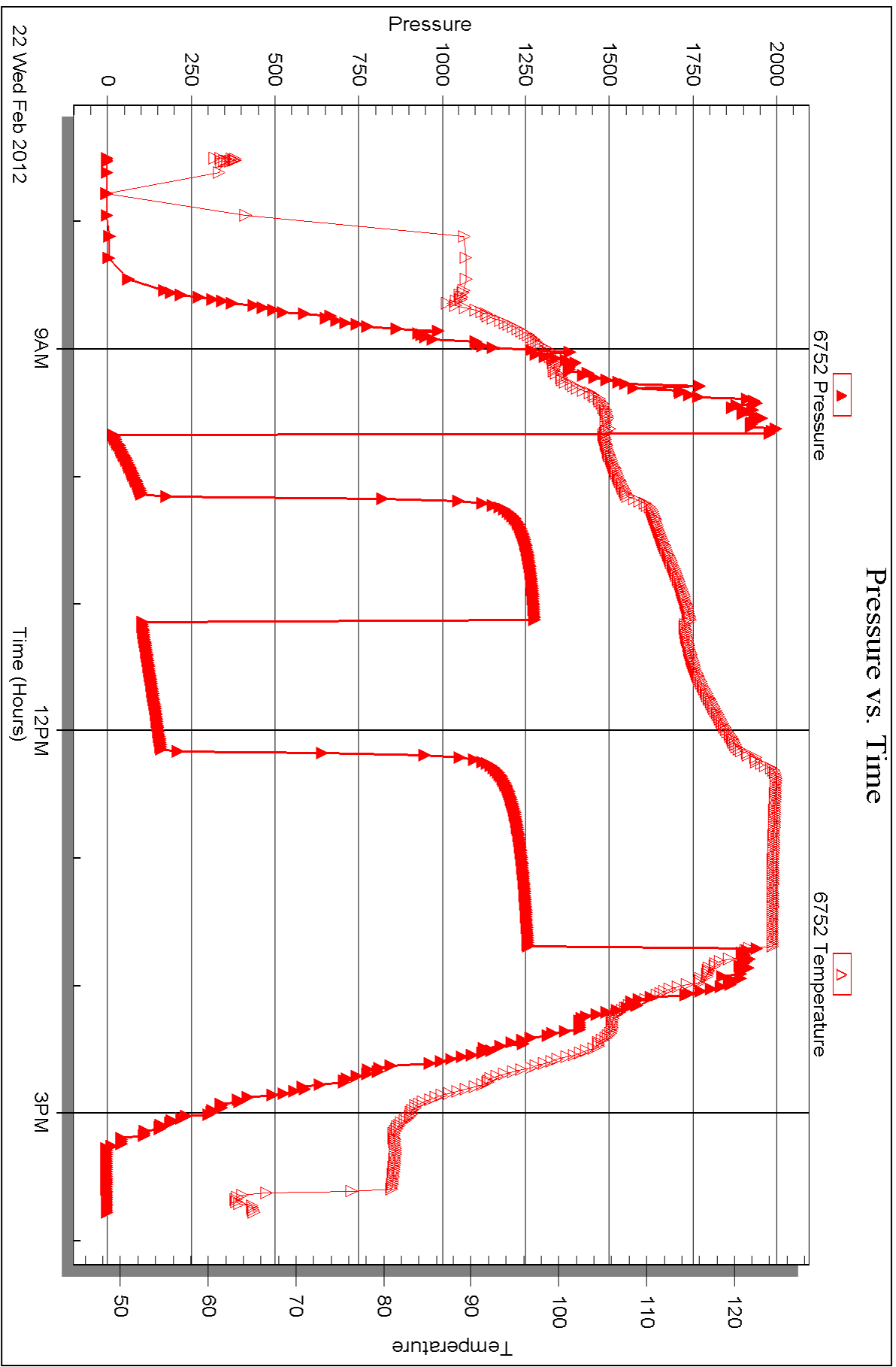


Serial #: 6752

Outside Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Ruda 'B' # 1-22

22-4s-33w Rawlins,KS

Start Date: 2012.02.23 @ 21:00:00

End Date: 2012.02.24 @ 06:18:30

Job Ticket #: 042044 DST #: 4

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

Printed: 2012.03.08 @ 14:30:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water STE 300
 Wichita KS 67202
 ATTN: Rocky Milford

22-4s-33w Rawlins, KS
Ruda 'B' # 1-22
 Job Ticket: 042044 **DST#: 4**
 Test Start: 2012.02.23 @ 21:00:00

GENERAL INFORMATION:

Formation: **Upper & lower Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:14:30
 Time Test Ended: 06:18:30
 Interval: **4242.00 ft (KB) To 4321.00 ft (KB) (TVD)**
 Total Depth: 4321.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 36
 Reference Elevations: 2988.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 5.00 ft

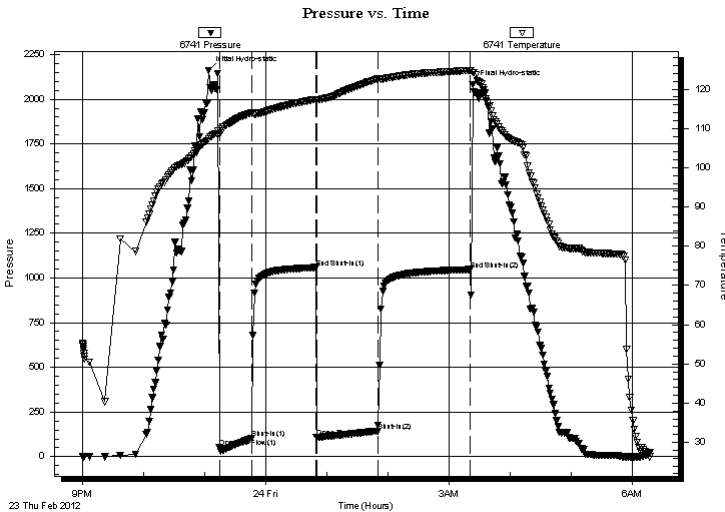
Serial #: 6741

Outside

Press @ Run Depth: 143.83 psig @ 4246.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.23 End Date: 2012.02.24 Last Calib.: 2012.02.24
 Start Time: 21:00:05 End Time: 06:18:30 Time On Btm: 2012.02.23 @ 23:04:00
 Time Off Btm: 2012.02.24 @ 03:23:30

TEST COMMENT: IF: Weak blow, Built to 4 in. over 30 mins.
 IS: No blow back over 60 mins.
 FF: Weak blow, Built to 1 3/4 in. over 60 mins.
 FS: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.58	107.38	Initial Hydro-static
11	50.42	108.38	Open To Flow (1)
42	103.68	113.97	Shut-In(1)
106	1058.64	117.42	End Shut-In(1)
106	107.83	117.10	Open To Flow (2)
166	143.83	122.54	Shut-In(2)
257	1047.63	124.78	End Shut-In(2)
260	2080.53	124.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	Vsocmw -5%o45%m50%w	0.60
126.00	socw m-10%o5%w 85%m	1.18
2.00	oil-100%	0.03
0.00	1.1 @40=10000	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 042044

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.02.23 @ 21:00:00

Tool Information

Drill Pipe:	Length: 4041.00 ft	Diameter: 3.80 inches	Volume: 56.68 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.59 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4242.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.38 ft			
Tool Length:	106.38 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			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Jars	5.00			4231.00	
Safety Joint	2.00			4233.00	
Packer	5.00			4238.00	27.00 Bottom Of Top Packer
Packer	4.00			4242.00	
Stubb	1.00			4243.00	
Perforations	3.00			4246.00	
Recorder	0.00	6741	Outside	4246.00	
Recorder	0.00	6752	Inside	4246.00	
Change Over Sub	1.00			4247.00	
Drill Pipe	63.38			4310.38	
Change Over Sub	1.00			4311.38	
Perforations	7.00			4318.38	
Bullnose	3.00			4321.38	79.38 Bottom Packers & Anchor
Total Tool Length:	106.38				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 042044

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.02.23 @ 21:00:00

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:

10000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
122.00	Vsocmw -5%o45%m50%w	0.600
126.00	socw m-10%o5%w 85%m	1.184
2.00	oil-100%	0.028
0.00	1.1@40=10000	0.000

Total Length: 250.00 ft

Total Volume: 1.812 bbl

Num Fluid Samples: 0

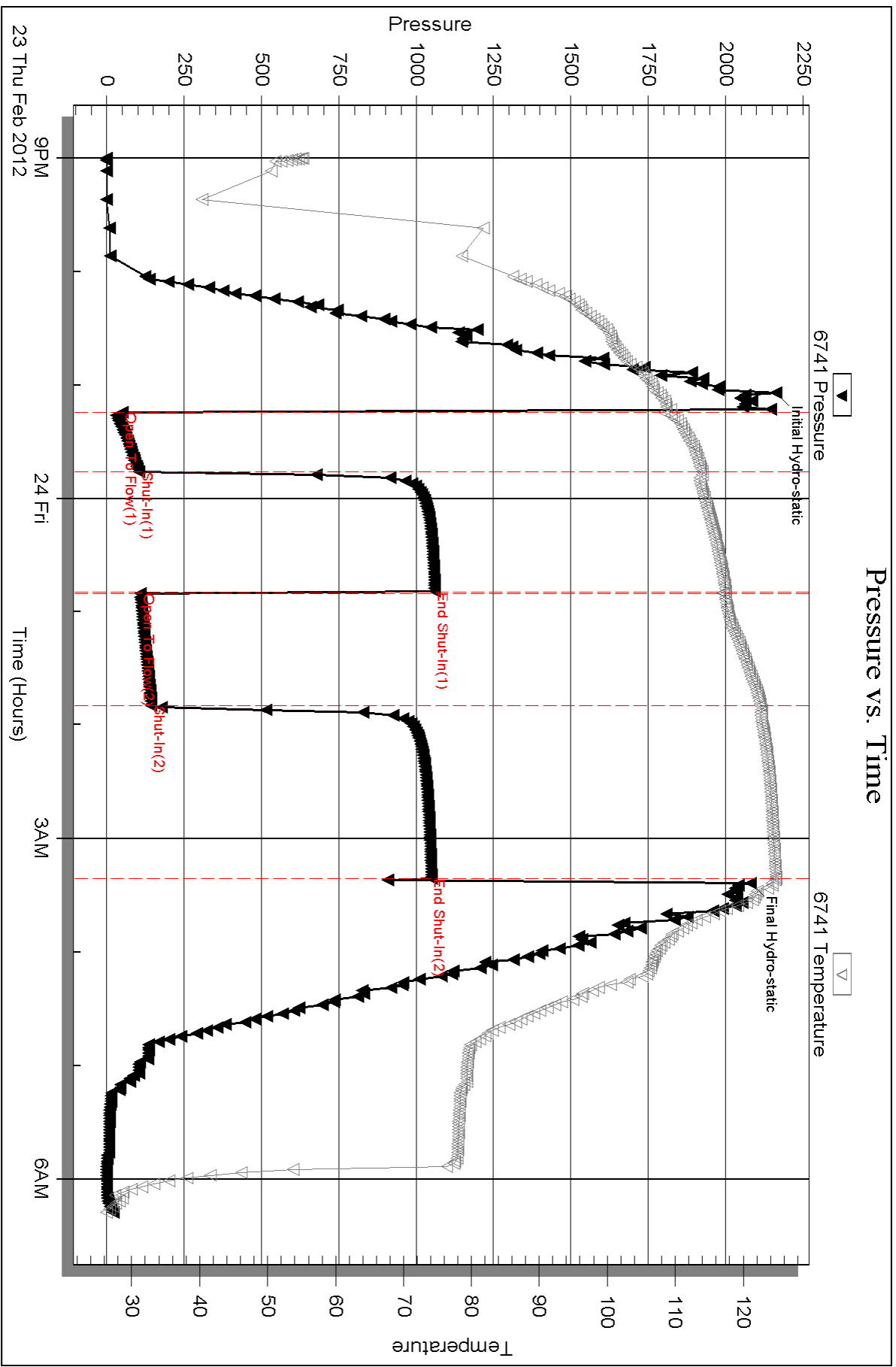
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



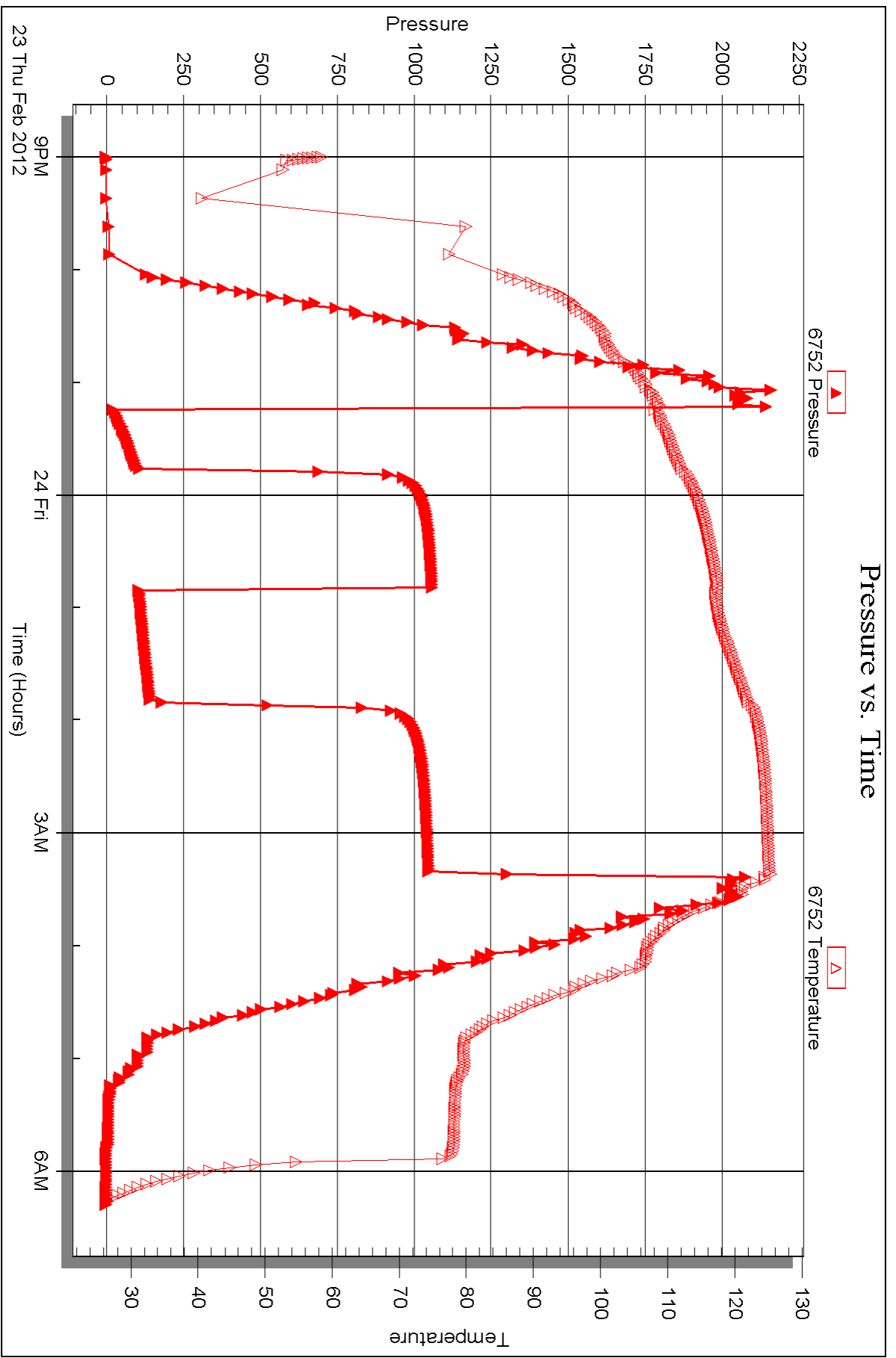
Serial #: 6752

Inside

Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 042044

Printed: 2012.03.08 @ 14:30:43



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Ruda 'B' # 1-22

22-4s-33w Rawlins,KS

Start Date: 2012.02.24 @ 15:50:00

End Date: 2012.02.24 @ 23:18:30

Job Ticket #: 042045 DST #: 5

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

Printed: 2012.03.08 @ 14:30:03

Murfin Drilling Co. 22-4s-33w Rawlins,KS Ruda 'B' # 1-22 DST # 5 Ft.scott, Calia 2012.02.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Rocky Milford

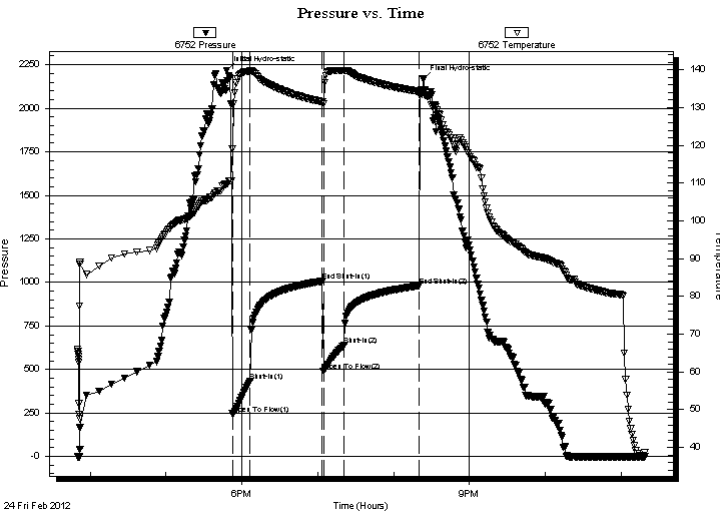
22-4s-33w Rawlins,KS
Ruda 'B' # 1-22
Job Ticket: 042045 **DST#: 5**
Test Start: 2012.02.24 @ 15:50:00

GENERAL INFORMATION:

Formation: **Ft.scott, Celia**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:52:30
Time Test Ended: 23:18:30
Interval: **4315.00 ft (KB) To 4370.00 ft (KB) (TVD)**
Total Depth: 4370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 2988.00 ft (KB)
2983.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
Press @ RunDepth: 641.96 psig @ 4319.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.24 End Date: 2012.02.24 Last Calib.: 2012.02.24
Start Time: 15:50:05 End Time: 23:18:29 Time On Btm: 2012.02.24 @ 17:48:00
Time Off Btm: 2012.02.24 @ 20:23:30

TEST COMMENT: IF: Strong blow , Built to B.O.B In 1 min.
IS: Weak blow back 1/8 in. in 15 mins., Died to surface over 60 mins.
FF: Strong blow , Built to B.O.B in 30 sec.
FS: No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.76	109.80	Initial Hydro-static
5	244.88	119.19	Open To Flow (1)
19	432.70	139.64	Shut-In(1)
76	1006.60	131.56	End Shut-In(1)
77	489.17	131.12	Open To Flow (2)
93	641.96	139.81	Shut-In(2)
152	979.91	134.29	End Shut-In(2)
156	2167.66	133.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1054.00	mcw -2% m98%w	13.09
310.00	mcw -15% m85%w	4.35
40.00	w cm-50%w 50%m	0.56
0.00	40.6@2.7=4400 Salinity	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 042045

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.02.24 @ 15:50:00

Tool Information

Drill Pipe:	Length: 4107.00 ft	Diameter: 3.80 inches	Volume: 57.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.52 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4315.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.20 ft			
Tool Length:	82.20 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			4289.00	
Shut In Tool	5.00			4294.00	
Hydraulic tool	5.00			4299.00	
Jars	5.00			4304.00	
Safety Joint	2.00			4306.00	
Packer	5.00			4311.00	27.00 Bottom Of Top Packer
Packer	4.00			4315.00	
Stubb	1.00			4316.00	
Perforations	3.00			4319.00	
Recorder	0.00	6741	Outside	4319.00	
Recorder	0.00	6752	Inside	4319.00	
Change Over Sub	0.60			4319.60	
Drill Pipe	32.00			4351.60	
Change Over Sub	0.60			4352.20	
Perforations	15.00			4367.20	
Bullnose	3.00			4370.20	55.20 Bottom Packers & Anchor
Total Tool Length:	82.20				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 042045

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.02.24 @ 15:50:00

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:

4400 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1054.00	mcw -2%m98%w	13.090
310.00	mcw -15%m85%w	4.348
40.00	w cm-50%w 50%m	0.561
0.00	40.6@2.7=4400 Salinity	0.000

Total Length: 1404.00 ft

Total Volume: 17.999 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

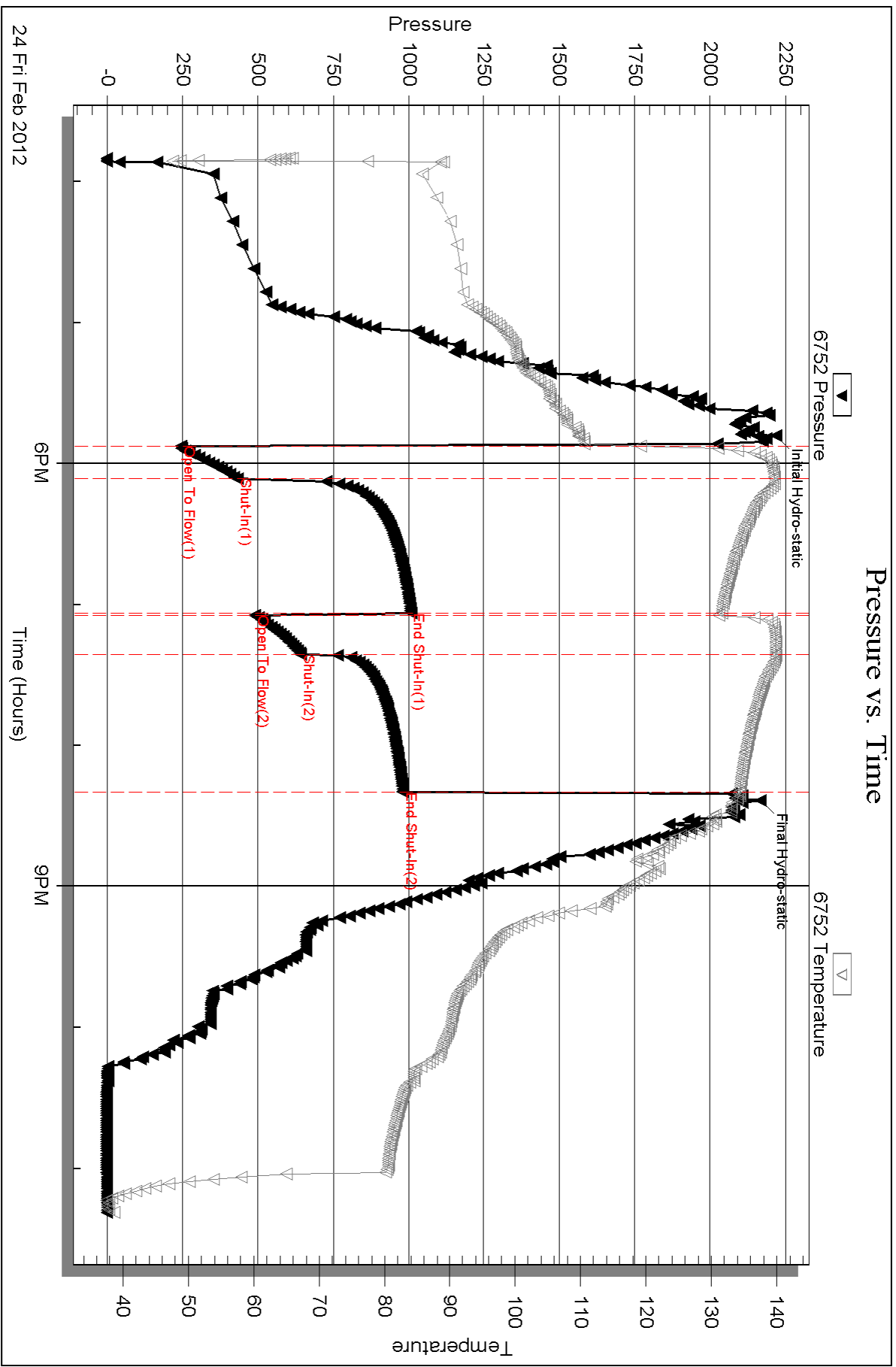
Serial #: 6752

Inside

Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 042045

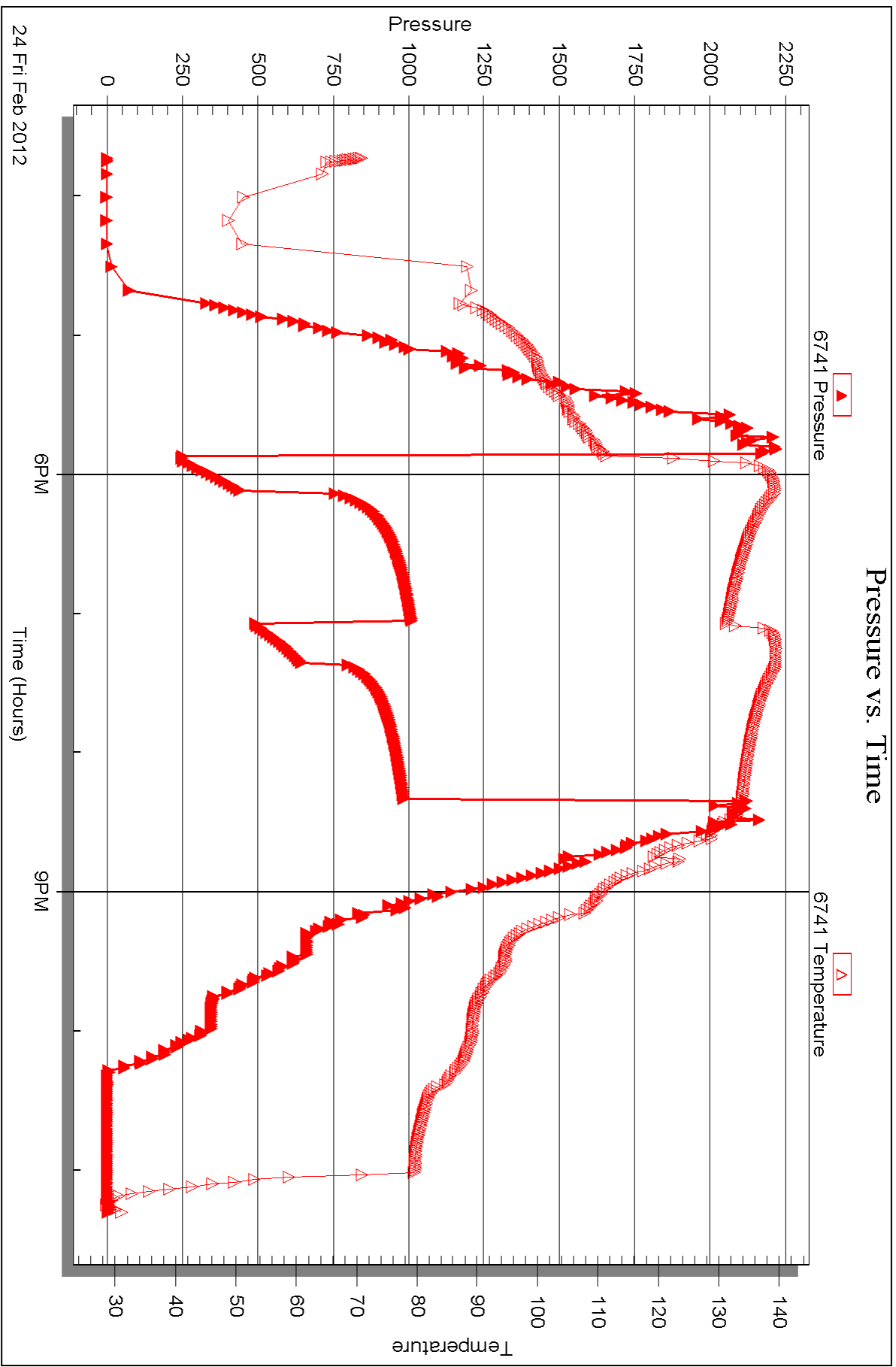
Printed: 2012.03.08 @ 14:30:06

Serial #: 6741

Outside Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Ruda 'B' # 1-22

22-4s-33w Rawlins,KS

Start Date: 2012.02.25 @ 18:45:00

End Date: 2012.02.26 @ 02:02:00

Job Ticket #: 42046 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 14:29:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water STE 300
Wichita KS 67202
ATTN: Rocky Milford

22-4s-33w Rawlins,KS

Ruda 'B' # 1-22

Job Ticket: 42046

DST#: 6

Test Start: 2012.02.25 @ 18:45:00

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:37:30
 Time Test Ended: 02:02:00
 Interval: **4515.00 ft (KB) To 4552.00 ft (KB) (TVD)**
 Total Depth: 4552.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 36
 Reference Elevations: 2988.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 5.00 ft

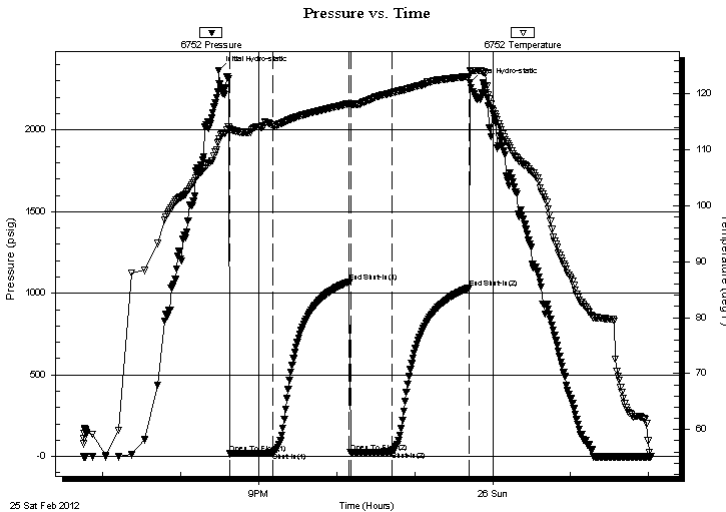
Serial #: 6752

Inside

Press @ Run Depth: 29.45 psig @ 4516.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.25 End Date: 2012.02.26 Last Calib.: 2012.02.26
 Start Time: 18:45:05 End Time: 02:01:59 Time On Btm: 2012.02.25 @ 20:29:00
 Time Off Btm: 2012.02.25 @ 23:42:30

TEST COMMENT: IF: Weak blow , Surface blow Died in 5 1/2 mins.
 IS: No Back over 60 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.25	111.43	Initial Hydro-static
9	16.85	113.71	Open To Flow (1)
42	23.40	114.41	Shut-In(1)
101	1070.64	118.26	End Shut-In(1)
102	23.93	118.10	Open To Flow (2)
134	29.45	120.22	Shut-In(2)
193	1033.13	123.15	End Shut-In(2)
194	2291.04	124.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.75	mud-100%	0.03

* 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.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 42046

DST#: 6

ATTN: Rocky Milford

Test Start: 2012.02.25 @ 18:45:00

Tool Information

Drill Pipe:	Length: 4326.00 ft	Diameter: 3.80 inches	Volume: 60.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.59 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4515.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 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			4489.00	
Shut In Tool	5.00			4494.00	
Hydraulic tool	5.00			4499.00	
Jars	5.00			4504.00	
Safety Joint	2.00			4506.00	
Packer	5.00			4511.00	27.00 Bottom Of Top Packer
Packer	4.00			4515.00	
Stubb	1.00			4516.00	
Recorder	0.00	6752	Inside	4516.00	
Recorder	0.00	6741	Outside	4516.00	
Perforations	33.00			4549.00	
Bullnose	3.00			4552.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-33w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Ruda 'B' # 1-22

Job Ticket: 42046

DST#: 6

ATTN: Rocky Milford

Test Start: 2012.02.25 @ 18:45:00

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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.75	mud-100%	0.028

Total Length: 5.75 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

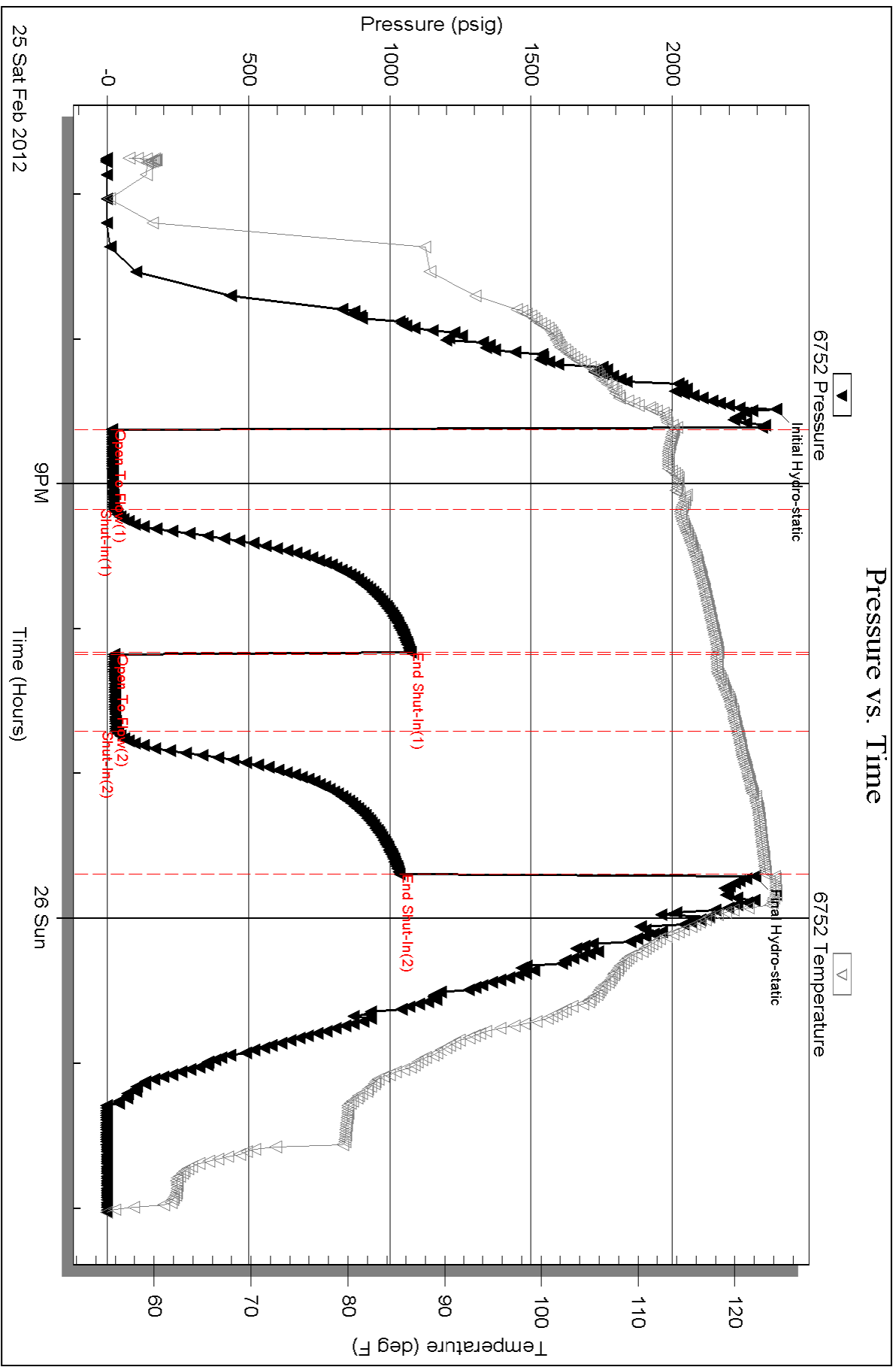
Serial #: 6752

Inside

Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 6

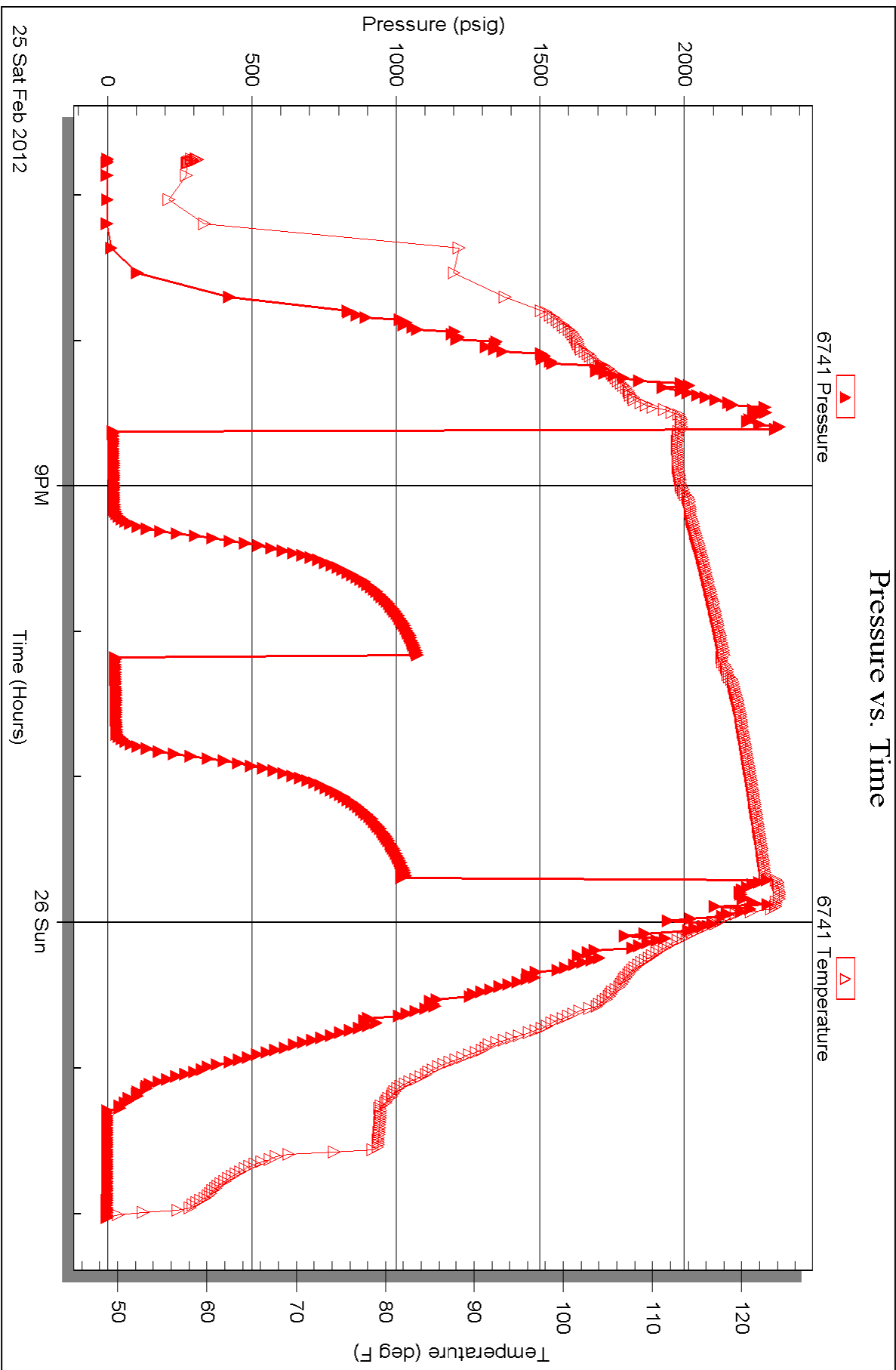


Serial #: 6741

Outside Murfin Drilling Co.

Ruda 'B' # 1-22

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 23 2012

Test Ticket

NO. 45131

4/10

BY: _____

Well Name & No. Ruda 'B' # 1-22 Test No. DST #1 Date 2-20-12
 Company Murfin Drilling Co. Elevation 2988 KB 2983 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin Rig #8
 Location: Sec. 22 Twp. 4s Rge. 33w Co. Rawlins State KS

Interval Tested 3860-3958 Zone Tested Toronto - Lansing "D"
 Anchor Length 98 Drill Pipe Run 3661 Mud Wt. 9.2
 Top Packer Depth 3856 Drill Collars Run 186 Vis 47
 Bottom Packer Depth 3860 Wt. Pipe Run 0 WL 7.6
 Total Depth 3958 Chlorides 3500 ppm System LCM 616
 Blow Description IF - Surface Blow Built to 3 1/4"
ISI - No Blow
FF - Weak Surface Blow in 28 min Built to 1 3/4"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>Mud</u>			<u>100</u>	
<u>60</u>	<u>WCM</u>			<u>3</u>	<u>97</u>
<u>120</u>	<u>WCM</u>			<u>20</u>	<u>80</u>

Rec Total 242 BHT 113 Gravity _____ API RW 488 @ 36 ° F Chlorides 26500 ppm

(A) Initial Hydrostatic 1936 Test 1125 T-On Location 12:36
 (B) First Initial Flow 25 Jars 250 T-Started 15:16
 (C) First Final Flow 92 Safety Joint 75 T-Open 17:29
 (D) Initial Shut-In 1239 Circ Sub N/C T-Pulled 21:37
 (E) Second Initial Flow 107 Hourly Standby 2 1/2 hrs 250 T-Out 23:59
 (F) Second Final Flow 130 Mileage 80 R/T 12 Comments _____
 (G) Final Shut-In 1236 Sampler _____
 (H) Final Hydrostatic 1838 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1812
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1812

Approved By Rocky Milford Our Representative Will Mard
 Trilobite Testing Inc. shall not be liable for damaged or 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. 45132

Well Name & No. Ruda 'B' #1-22 Test No. DST #2 Date 2-21-12
 Company Murfin Drilling Co. Elevation 2988 KB 2983 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin Rig #8
 Location: Sec. 22 Twp. 4s Rge. 33w Co. Rawlins State KS

Interval Tested 3956-4015 Zone Tested Lansing E-G
 Anchor Length 59 Drill Pipe Run 3764 Mud Wt. 9.1
 Top Packer Depth 3952 Drill Collars Run 186 Vis 52
 Bottom Packer Depth 3956 Wt. Pipe Run 0 WL 76
 Total Depth 4015 Chlorides 3400 ppm System LCM 8.15
 Blow Description IF- Surface Blow Built to BOB in 5 3/4 min
ISI- No Blow
FF- Surface Blow Built to BOB in 1 1/4 min
FSI- No Blow

Rec	Feet of	SKIN of oil on top	%gas	%oil	%water	%mud
<u>288</u>	<u>WCM</u>	<u>SKIN of oil on top</u>		<u>4</u>	<u>96</u>	
<u>186</u>	<u>WCM</u>	<u>SKIN of oil</u>		<u>8</u>	<u>92</u>	
<u>434</u>	<u>MCW</u>	<u>SKIN of oil</u>		<u>80</u>	<u>20</u>	
<u>248</u>	<u>MCW</u>			<u>95</u>	<u>5</u>	

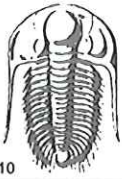
Rec Total 1156 BHT 123 Gravity 122.5 API RW 233 @ 44 °F Chlorides 51000 ppm

(A) Initial Hydrostatic 1962 Test 122.5 T-On Location _____
 (B) First Initial Flow 92 Jars _____ T-Started 11:59 AM
 (C) First Final Flow 387 Safety Joint _____ T-Open 14:12
 (D) Initial Shut-In 1281 Circ Sub NIC T-Pulled 17:16
 (E) Second Initial Flow 386 Hourly Standby _____ T-Out 20:06
 (F) Second Final Flow 574 Mileage 80 R/T 112 Comments _____
 (G) Final Shut-In 1272 Sampler _____
 (H) Final Hydrostatic 1820 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1337
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1337

Approved By Rocky Milford

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 27 2012

Test Ticket

NO. 042043

BY: _____

Well Name & No. Ruda B 1-22 Test No. 3 Date 2-22-2012
 Company Murphy Drilling Co. Elevation 2990 KB 2985 GL
 Address 256 N. Water Ste. 300 Wichita KS. 67202
 Co. Rep / Geo. Rocky Milford Rig Murphy #8
 Location: Sec. 22 Twp. 4N Rge. 33w Co. Rawlins State Ks.

Interval Tested 4012 4088 Zone Tested LKC - H, J
 Anchor Length 76 Drill Pipe Run 3809 Mud Wt. 9.1
 Top Packer Depth 4007 Drill Collars Run 186 Vis 51
 Bottom Packer Depth 4012 Wt. Pipe Run - 0 - WL 7.2
 Total Depth 4088 Chlorides 3400 ppm System LCM 7#

Blow Description IF: weak blow, built to 5 in over 30 mins.
ISI: No blow back over 60 mins
FF: weak blow built to 7 in. over 60 mins
FSI: No blow back over 90 mins.

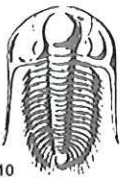
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
<u>120</u>	<u>WCAE</u>		<u>25</u>	<u>75</u>	
<u>120</u>	<u>MCW</u>		<u>20</u>	<u>80</u>	

Rec Total 250 BHT 124.1 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2022 Test 1225 T-On Location 6:30
 (B) First Initial Flow 22 Jars _____ T-Started 7:30
 (C) First Final Flow 105 Safety Joint _____ T-Open 9:40
 (D) Initial Shut-In 1280 Circ Sub _____ T-Pulled 13:50
 (E) Second Initial Flow 107 Hourly Standby _____ T-Out 15:47
 (F) Second Final Flow 163 Mileage 40x2=80x1.90 112 Comments _____
 (G) Final Shut-In 1260 Sampler _____
 (H) Final Hydrostatic 1933 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1337
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1337

Approved By _____ Our Representative Chad [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 27 2012
BY: _____

Test Ticket

NO. 042044

Well Name & No. Ruda B 1-122 Test No. 4 Date 2-23-2012
 Company MurFin Drilling Co. Elevation 2990 KB 2985 GL
 Address 250 N. Water St 300 Wichita Ks. 67202
 Co. Rep / Geo. Rocky Milford Rig MurFin #8
 Location: Sec. 22 Twp. 4N Rge. 33W Co. Rawlins State Ks.

Interval Tested 4242 4321 Zone Tested Upper & Lower Pawnee
 Anchor Length 79 Drill Pipe Run 4041 Mud Wt. 9.1
 Top Packer Depth 4237 Drill Collars Run 186 Vis 51
 Bottom Packer Depth 4242 Wt. Pipe Run -0- WL 7.2
 Total Depth 4321 Chlorides 3400 ppm System LCM 2#

Blow Description IF: weak blow, built to 4 in. over 30 mins
ISF: No blow back over 60 mins.
FF: weak blow built to 1 3/4 in. over 60 mins.
FSI: no blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>oil</u>		<u>100%</u>		
<u>126</u>	<u>SOCCMAX</u>		<u>10%</u>	<u>5%</u>	<u>85%</u>
<u>122</u>	<u>USOCMW</u>		<u>5%</u>	<u>50%</u>	<u>45%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT 124.8 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

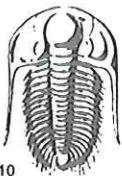
(A) Initial Hydrostatic _____ Test 1225' T-On Location 20:25
 (B) First Initial Flow _____ Jars 250' T-Started 21:00
 (C) First Final Flow _____ Safety Joint 75' T-Open 23:14
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 3:20
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 6:16
 (F) Second Final Flow _____ Mileage 40x2 = 80x1.40 = 112' Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 11662'
 Total 11662'
 MP/DST Disc't _____

Approved By _____ Our Representative Charles [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 27 2012

Test Ticket

NO. 042045

BY: _____

Well Name & No. Rudax B 1-22 Test No. 5 Date 2-24-2012
 Company Murfin Drilling Co. Elevation 2990 KB 2985 GL
 Address 250 N. Water St. 300 Wichita KS,
 Co. Rep / Geo. Rock & Milford Rig Murfin #3
 Location: Sec. 22 Twp. 4N Rge. 33W Co. Rawlins State Ks

Interval Tested 4315 4370 Zone Tested Ft. Scott Celia
 Anchor Length 55 Drill Pipe Run 4107 Mud Wt. 9.1
 Top Packer Depth 4310 Drill Collars Run 186 Vis 69
 Bottom Packer Depth 4315 Wt. Pipe Run -0- WL 5.6
 Total Depth 4370 Chlorides 3,400 ppm System LCM 8#
 Blow Description IF: Strong ~~weak~~ blow, Built to B.O.B in 1min.
IST: Weak blowback, Built to 1/8 in. ~~in 15 mins~~, Died to surface over 60mins
FF: Strong blow, Built to B.O.B in 15 mins
FST: No blowback over 60 mins.

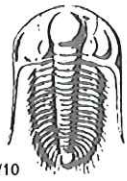
Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>WCM</u>			<u>50%</u>	<u>50%</u>
<u>310</u>	<u>MCW</u>			<u>85%</u>	<u>15%</u>
<u>1054</u>	<u>MCW</u>			<u>98%</u>	<u>2%</u>

Rec Total 1404 BHT 134.3 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2218</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>15:20</u>
(B) First Initial Flow <u>245</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>15:50</u>
(C) First Final Flow <u>433</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>17:52</u>
(D) Initial Shut-In <u>1007</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>20:25</u>
(E) Second Initial Flow <u>489</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:18</u>
(F) Second Final Flow <u>642</u>	<input checked="" type="checkbox"/> Mileage <u>40x2 = 80x1.40</u> 112	Comments _____
(G) Final Shut-In <u>980</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2168</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Day Standby _____	Total <u>11662</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>11662</u>	

Approved By _____ Our Representative Chuck [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
MAR 05 2012

Test Ticket

NO. 042046

Well Name & No. Ruda B 1-22 BY: _____ Test No. 6 Date 2-25-2012
 Company Murfin Drilling Co Elevation 2990 KB 2985 GL _____
 Address 250 N. Water Ste, 300 Wichita KS.
 Co. Rep / Geo. Rocky Milford Rig Murfin #B
 Location: Sec. 22 Twp. 4N Rge. 33W Co. Lawlins State KS

Interval Tested 4515 4552 Zone Tested Miss.
 Anchor Length _____ 37 Drill Pipe Run 4326 Mud Wt. 9.1
 Top Packer Depth _____ 4510 Drill Collars Run 186 Vis 7.6
 Bottom Packer Depth _____ 4515 Wt. Pipe Run -0- WL 6.0
 Total Depth _____ 4552 Chlorides 3900 ppm System LCM 8#

Blow Description IF: Weak blow, Died in 5 1/2 mins.
ISI: No blow back over 60 mins.
FF: No blow over 30 mins.
FBI: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5.75</u>	<u>mud</u>				<u>100%</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 5.75 BHT 123 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2365</u>	<input checked="" type="checkbox"/> Test <u>1225"</u>	T-On Location <u>17:50</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250"</u>	T-Started <u>18:45</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75"</u>	T-Open <u>20:37</u>
(D) Initial Shut-In <u>1076</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:40</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2:02</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>80 RT 112"</u>	Comments _____
(G) Final Shut-In <u>1033</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2291</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Shale Packer <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>350</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2012</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1102</u>	

Approved By _____ Our Representative Chuck [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.



CONSOLIDATED
Oil Well Services, LLC

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

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

PROD COPY

INVOICE

Invoice # 247879

Invoice Date: 02/17/2012 Terms: 10/10/30,n/30

Page 1

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

RUDA B 1-22
33912
22-4-33
2-15-2012
KS

OPERATOR PAY MDC
LEASE: pm

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	190.00	17.6500	3353.50
1102	CALCIUM CHLORIDE (50#)	536.00	.8900	477.04

Sublet Performed	Description	Total
9999-130	CASH DISCOUNT	-383.05
9999-130	CASH DISCOUNT	-187.95

Description	Hours	Unit Price	Total
463 CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
463 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.00	200.00
463 TON MILEAGE DELIVERY	356.00	1.67	594.52

USED FOR _____

APPROVED _____

Account	Qty	Unit Price	No.	Amount	Description
10203	3.6	446.0001		546.58	Cement S. Csg

B-1-22

Amount Due 6018.42 if paid after 03/18/2012

Parts:	3830.54	Freight:	.00	Tax:	277.52	AR	5416.58
Labor:	.00	Misc:	.00	Total:	5416.58		
Sublt:	-571.00	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, Inc.



TICKET NUMBER 33912

LOCATION Orley

FOREMAN Fuzzy

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

FIELD TICKET & TREATMENT REPORT

CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
2-15-12	5406	Ruda 'B' 1-22	22	4	33	Rawlins												
CUSTOMER <u>Murphy Dals</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>463</td> <td>Josh G</td> <td></td> <td></td> </tr> <tr> <td>439</td> <td>Jim</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	Josh G			439	Jim		
TRUCK #	DRIVER	TRUCK #					DRIVER											
463	Josh G																	
439	Jim																	
MAILING ADDRESS																		
CITY	STATE	ZIP CODE																

JOB TYPE surface HOLE SIZE 12 1/4 HOLE DEPTH 215' CASING SIZE & WEIGHT 8 3/8
 CASING DEPTH 215' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 1.18 WATER gal/sk 5.2 CEMENT LEFT in CASING 25'
 DISPLACEMENT 12.1 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on Murchin #8. Rig up and circulate
Mix 190 SKS CLASS 'A' 390cc. Displace 12 BBL and shut in.
Cement did circulate approx 6 BBLs to pit

Thanks Fuzzy
+ crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085 ⁰⁰	1085 ⁰⁰
5406	40	MILEAGE	5 ⁰⁰	200 ⁰⁰
5407A	8.9 don	Tow mileage delivery	161	594 ⁵²
11045	190 SKS	Class 'A' Cement	1765	3353 ⁵⁰
1102	536*	Calcium chloride	189	477 ²⁴
		subtotal		5710 ⁰⁶
		less 109 ⁰⁰ disc		571 ⁰⁰
		sub total		5139 ⁰⁶
		247879	SALES TAX	277.52
			ESTIMATED TOTAL	5416.58

Flavin 3737

AUTHORIZATION Trevin's with Murchin TITLE Driller DATE 2-15-12

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.

Liz



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



Invoice

DATE	INVOICE #
2/27/2012	22010

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	#1-22	Ruda B	Rawlins	Company Tools	Oil	Development	Cement LongStri...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				100	Miles	6.00	600.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
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
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
284	Calseal				11	Sack(s)	35.00	385.00T
283	Salt				1,150	Lb(s)	0.20	230.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
276	Flocele				50	Lb(s)	2.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				3	Gallon(s)	35.00	105.00T
581D	Service Charge Cement				225	SACKS	2.00	450.00
583D	Drayage				1,180	Ton Miles	1.00	1,180.00
Subtotal								15,187.50
Sales Tax Rawlins County							8.05%	922.33

USED FOR IC 103

APPROVED R JT

3144
124 54 505
040200013A

We Appreciate Your Business!	Total	\$16,109.83
-------------------------------------	--------------	-------------



CHARGE TO: Murfin Drilling
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET No 22010

PAGE 1 OF 2

SERVICE LOCATIONS: 1110 City KS WEL/PROJECT NO: 1-22 LEASE: Ruta 1B COUNTY/PARISH: Ratlins STATE: KS CITY: Atwood DATE: 27 Feb 12 OWNER: _____
 2. TICKET TYPE: SERVICE CONTRACTOR: _____ RIG NAME NO: 8 SHIPPED: DELIVERED TO: location ORDER NO: _____
 3. WEL TYPE: CE TESTS WELL CATEGORY: Development JOB PURPOSE: cement log string WEL PERMIT NO: _____ WELL LOCATION: 22-4-33W
 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 TRK 114	100	mi			6.00	600.00
578					Pump Charge	1	ea			1500.00	1500.00
409					Turbo keys	52	ea	15	ea	90.00	1350.00
403					Concrete Bucket	52	ea	204	ea	250.00	5200.00
404					Box collar	52	ea	1	ea	2400.00	2400.00
406					Latch down & bubble	52	ea	1	ea	250.00	250.00
407					Insert & flats for w/ service	52	ea	1	ea	350.00	350.00
411	413				Pods w/ seal scratchers	52	ea	1504	ea	40.00	6800.00
419					Rotative head restack	52	ea	104	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: 2/27/12 TIME SIGNED: 11:15 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
 TOTAL: 16,109.83

Thank You!



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

TICKET CONTINUATION

TICKET No. **22010**

CUSTOMER **MURFIN DRILLING** WELL **Rata B** DATE **21-07-22**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM			
285		1				STANDARD CEMENTS (Per 4-2)	285	sk	1-22	13.50	3037.50
284		1				Oil Seal	1100	lb		35.00	385.00
283		1				SAD+	1150	lb		0.20	230.00
285		1				CR-1	150	lb		4.00	600.00
276		1				Floater	50	lb		2.00	100.00
280		1				Flodrink 21	500	gal		2.50	1250.00
221		1				KCL Liquid	4	gal		25.00	100.00
299		1				D-AIR	3	gal		35.00	105.00
581		1				SERVICE CHARGE				2.00	450.00
583		1				MILEAGE CHARGE				1.00	1180.00
						TOTAL WEIGHT	23600				
						LOADED MILES	100				
						CUBIC FEET					
						TON MILES	1180				

CONTINUATION TOTAL **7437.50**

JOB LOG

SWIFT Services, Inc.

DATE 27 FEB 12 PAGE NO.

CUSTOMER MOREIN Drilling WELL NO. 1-22 LEASE Ruda "B" JOB TYPE cement long string TICKET NO. 22010

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 sks SA-2 w/ 1/4" flocc
								110jt 5 1/2" 15.5# casing 4593'
								RTD 4603' LTD 4606' 22.5' shoe jt
								ABT COLLAR #46 2675' 75' scratchers
								Cent collar 1-15' brush #45, 46
	0330							on loc TRK 114
	0440							start 5 1/2" 15.5# casing in well
	0610							circulate part way in (0610-0625)
	0730							Drop ball - circulate - ROTATE
	0845	4 3/4					250	Pump flocc 21
	0850		7					Plug RH - MH 30 sks - 20 sks
	0855	4 3/4	37				250	mix SA-2 cement 125 sks @ 15.3 ppg
	0910	6 3/4					200	Drop latch down plug
		6 3/4	95				900	
		6 3/4	109				1600	wash out pump & line
	0910	6 3/4					200	Displace plug
		6 3/4	95				900	
	0930	6 3/4	109				1600	Land plug
	0933							Release pressure to truck - dried up
	0935							wash truck
								Back up
	1015							job complete
								Thanks!
								Blaine Dave & Dery

WF



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



Invoice

DATE	INVOICE #
3/16/2012	21324

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	#1-22	Ruda B	Rawlins	Murfin Drilling	Oil	Workover	PTA	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575W	Mileage - 1 Way				100	Miles	6.00	600.00T
576W-P	Pump Charge - PTA				1	Job	1,000.00	1,000.00T
275	Cotton Seed Hulls				7	Sack(s)	25.00	175.00T
290	D-Air				4	Gallon(s)	35.00	140.00T
328-4	60/40 Pozmix (4% Gel)				400	Sacks	11.50	4,600.00T
581W	Service Charge Cement				400	Sacks	2.00	800.00T
583W	Drayage				1,678	Ton Miles	1.00	1,678.00T
	Subtotal							8,993.00
	Sales Tax Rawlins County						8.05%	723.94

PKA

USED FOR ~~16 104~~

APPROVED ~~ST R~~

We Appreciate Your Business!

Total	\$9,716.94
--------------	------------



Services, Inc.

CHARGE TO: MURKIN OIL
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET No 21324

PAGE 1 OF 1

SERVICE LOCATIONS: 1. HAS WELLS/PROJECT NO. 1-22 LEASE RUDA B COUNTY/PARISH DEWITT STATE MS CITY _____ DATE 03-16-12 OWNER _____
 2. NESS CONTRACTOR _____ RIG NAME NO. MURKIN SHIPPED VIA CT DELIVERED TO CHARDON ORDER NO. _____
 3. WELLS TYPE _____ WELL CATEGORY Abandon JOB PURPOSE P.T.A. WELL PERMIT NO. _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #412	100	M			6.00	600.00
576-P		1			Pump Service	1	EA			1000.00	1000.00
025		1			Correct Seed Hous	7	EA			25.00	175.00
090		1			D-HIL	4	EA			35.00	140.00
308-y		2			60-40 AZ 4 1/2 G.E.	400	ST			11.50	4600.00
581		2			Service CMC cont	400	ST			2.00	800.00
583		2			Draves	1678.0	TN			1.00	1678.00

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
 X Murkin Oil

DATE SIGNED 03-16-12 TIME SIGNED 0900 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? CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 8993.00
 TAX: 723.94
 TOTAL: 9716.94

SWIFT OPERATOR: Dave APPROVAL: _____

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 03-16-12 PAGE NO. 1

CUSTOMER MURFIN DRILL WELL NO. 1-22 LEASE RUDA B JOB TYPE PTA TICKET NO. 21374

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							ONLOCATION CMT: 400 SB 60-10 1 1/2 GEL 8 5/8-265' 500# HULLS 5 1/2 15.5" PENS 3898-4530 @ PWD 4567
	0925	5.5	20		✓		0	75 SB CMT w/ 3 SKS HULLS 225#
	0945	5.5	80		✓		250	80 LBS MUD
	0945	✓	100		✓		200	HOLD 15 MIN VAC
	1040							SHOOT OFF CSG @ 2290 = 2248 WELL NOT PULL FREE
	1210	4	13		✓		100	MAX 50 SKS CMT w/ 1 SK HULL (CIRCULATION)
		4 1/2	50		✓		150	DISPLACE TO 2100' ISOP - SLIGHT VAC
								SHOOT OFF CSG = 1954' NOT FREE
	1340	5	53		✓		150	MAX 200 SKS CMT 3 SKS HULLS (CIRCULATION)
		5	36		✓		200	DISPLACE TO 1500' ISOP - 25 #
								RELEASE 1/4 BBL BACK
								SHOOT OFF CSG = 1499' FREE FULL CASING
	1530	3	17		✓		100	MAX 65 SSK CMT 282' CMT TO SURFACE
								PULL CASING OUT WELL
	1600		2 1/2					TOP OFF WELL 10 SKS CMT
								WASH TRUCK
	1700							JOB COMPLETE
								THANK YOU WAYNE, DAVE A., JOSH B.