



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1174990
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: _____

1174990

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

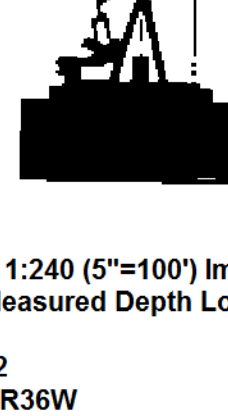
Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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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MDCI Burk Trust 'C' #1-22 1980' FSL 660' FEL Sec. 22-T1S-R36W 3225' KB							Berexco Michael #1-22 2200' FNL 880' FEL Sec. 22-T1S-R36W 3158' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3117	+108	+9	3122	+103	+4	3059	+99
B/Anhydrite	3145	+80	+12	3152	+73	+5	3090	+68
Neva	3606	-381	Flat	3605	-380	+1	3539	-381
Red Eagle	3670	-445	-3	3665	-440	+2	3600	-442
Foraker	3714	-489	Flat	3714	-489	Flat	3647	-489
Topeka	3932	-707	-2	3930	-705	Flat	3863	-705
Oread	4042	-817	-1	4040	-815	+1	3974	-816
Lansing	4145	-920	-2	4148	-923	-5	4076	-918
Stark	4366	-1141	-1	4366	-1141	-1	4298	-1140
BKC	4415	-1190	-1	4414	-1189	Flat	4347	-1189
Pawnee	4534	-1309	-6	4534	-1309	-6	4461	-1303
Cherokee	4623	-1398	-5	4620	-1395	-2	4551	-1393
Mississippi							4765	-1607
RTD	4720	-1495					4810	-1652
LTD				4719	-1494		4814	-1656

ERICKSON WELLSITE GEOLOGY



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

Well Name: Burk Trust 'C' #1-22
 Location: NE SE Sec 22 T15 R36W
 License Number: Spud Date: 9/10/2013
 Surface Coordinates: 1980' FSL & 660' FEL
 Region: Rawlins County, KS
 Drilling Completed: 9/20/2013

Bottom Hole Coordinates: 3220
 Ground Elevation (ft): 3220
 Logged Interval (ft): 3500
 Formation: To: TD
 K.E. Elevation (ft): 3225
 Total Depth (ft): 4720
 Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

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

DSTS

DST #1 4014-4047: 30-60-60-90; Hydro: 2062-2008 FFP: 23-144 ISIP: 1150 FFP: 168-290 FSP: 1146 Rec: 618' 15%g 85%o 126' 50%o 50%g/m; BHT: 143 Grav: 24.8; IF: BOB 13min ISI: 2 1/2" FF: BOB 17min FSI: 3 1/2"

DST #2 4160-4220: 30-60-60-90; Hydro: 2098-2160 FFP: 33-237 ISIP: 1042 FFP: 308-471 FSP: 1028 Rec: 50' 5%g 95%o 62' 5%g 35%o 60%g 305' 20%g 10%o 35%w 35%km 252' 25%g 20%o 45%w 10%km 346' 20%g 20%o 55%w 5%km; BHT: 144 Grav: 23.8; IF: BOB 7min ISI: 3" FF: BOB 10min FSI: 1"

DST #3 4232-4300: 30-60-60-90; Hydro: 2155-2165 FFP: 48-166 ISIP: 1221 FFP: 189-299 FSP: 1203; Rec: 514' 35%g 65%o 303' 10%g 70%o 20%g/m; BHT: 143 Grav: 27.4; IF: BOB 7min ISI: BOB 30min FFP: BOB 9min FSI: BOB 46min

DST #4 4312-4370: 30-60-60-60; Hydro: 2231-2191 FFP: 16-38 ISIP: 1282 FFP: 59-73 FSP: 1193; Rec: 65' 10%g 90%km; BHT: 137; IF: 1 1/4" ISI: dead FF: 1" FSI: dead

COMMENTS

FORMATION TOPS

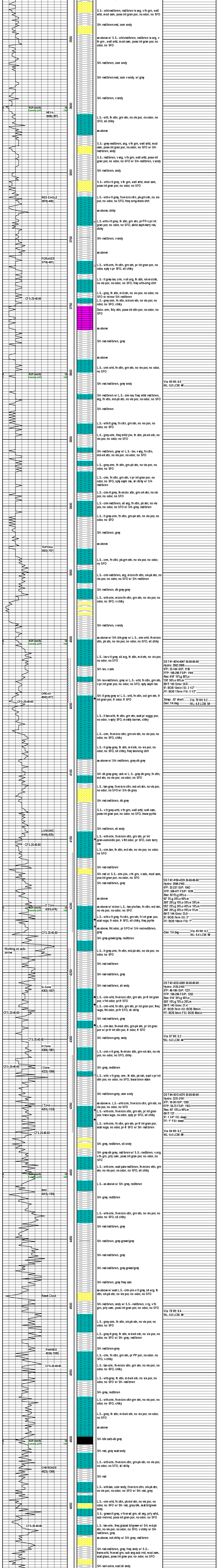
Anhydrite	Log Tops	Sample tops
Base Anhy	3122(+103)	3117(+108)
NEVA	3154(+71)	3150(+75)
RED EAGLE	3606(-381)	3606(-381)
FORAKER	3675(-450)	3670(-445)
TOPEKA	3715(-492)	3716(-491)
OREAD	3930(-705)	3932(-707)
LANSING	4041(-816)	4042(-817)
BKC	4148(-923)	4145(-920)
PAWNEE	4414(-1189)	4415(-1190)
CHEROKEE	4534(-1309)	4534(-1309)
TD	4620(-1395)	4623(-1398)
	4719(-1494)	4720(-1495)

ROCK TYPES

Anhy	Bent	Clyst	Carb. shale	Gyp	Igne	Mrlst	Shlt
Brec	Brec	Arkose	Dol	Lnme	Lnme	Shale	Ss
Cht	Cht					Shcol	Till

OTHER SYMBOLS

OIL SHOW	Spotted	Dead	INTERVAL
Even	Quies		Dst





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #1-22

22-1s-36w Rawlins,KS

Start Date: 2013.09.15 @ 03:13:00

End Date: 2013.09.15 @ 13:03:40

Job Ticket #: 53518 DST #: 1

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

Printed: 2013.09.20 @ 11:02:34

Murfin Drilling Co. 22-1s-36w Rawlins,KS Burk Trust C #1-22 DST # 1 Oread 2013.09.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-1s-36w Rawlins, KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53518

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.09.15 @ 03:13:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:59:30

Time Test Ended: 13:03:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 41

Interval: 4014.00 ft (KB) To 4047.00 ft (KB) (TVD)

Reference Elevations: 3225.00 ft (KB)

Total Depth: 4047.00 ft (KB) (TVD)

3220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 289.65 psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.15 End Date: 2013.09.15

Last Calib.: 2013.09.15

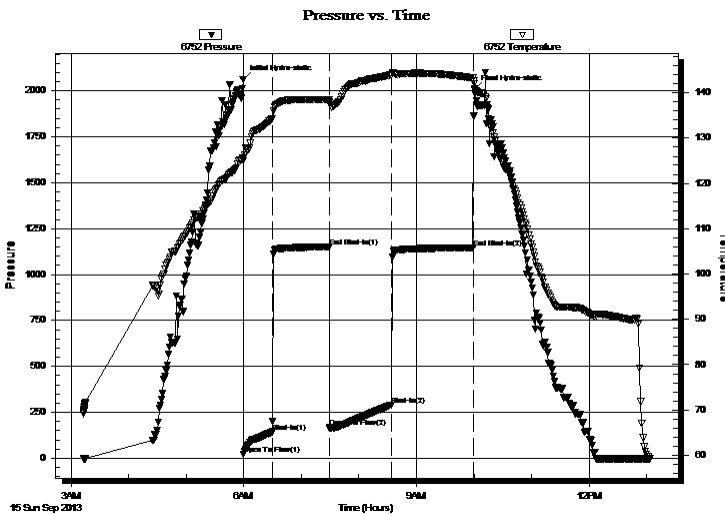
Start Time: 03:13:01 End Time: 13:03:40

Time On Btm: 2013.09.15 @ 05:59:20

Time Off Btm: 2013.09.15 @ 10:00:20

TEST COMMENT: 30 IF - Surface blow built to BoB @ 13 mins
60 ISI - Surface blow started @ 5 mins built to 2 1/2"
60 FF - Surface blow built to BoB @ 17 mins
90 FSI - Surface blow started @ 10 mins built to 3 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.73	125.51	Initial Hydro-static
1	23.09	125.06	Open To Flow (1)
31	144.39	134.36	Shut-In(1)
90	1150.26	138.46	End Shut-In(1)
90	168.16	138.09	Open To Flow (2)
155	289.65	143.93	Shut-In(2)
240	1146.44	143.25	End Shut-In(2)
242	2007.71	142.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OCM - 50%o - 50%M	0.62
618.00	GO - 15%G - 85%o	8.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53518

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.09.15 @ 03:13:00

Tool Information

Drill Pipe:	Length: 3827.00 ft	Diameter: 3.80 inches	Volume: 53.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 250000.0 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4014.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			3988.00	
Shut In Tool	5.00			3993.00	
Hydraulic tool	5.00			3998.00	
Jars	5.00			4003.00	
Safety Joint	2.00			4005.00	
Packer	5.00			4010.00	27.00 Bottom Of Top Packer
Packer	4.00			4014.00	
Stubb	1.00			4015.00	
Recorder	0.00	6752	Inside	4015.00	
Recorder	0.00	8322	Outside	4015.00	
Perforations	29.00			4044.00	
Bullnose	3.00			4047.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53518

DST#: 1

ATTN: Clayton Erickson

Test Start: 2013.09.15 @ 03:13:00

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: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	OCM - 50%o - 50%M	0.620
618.00	GO - 15%G - 85%o	8.204

Total Length: 744.00 ft Total Volume: 8.824 bbl

Num Fluid Samples: 0

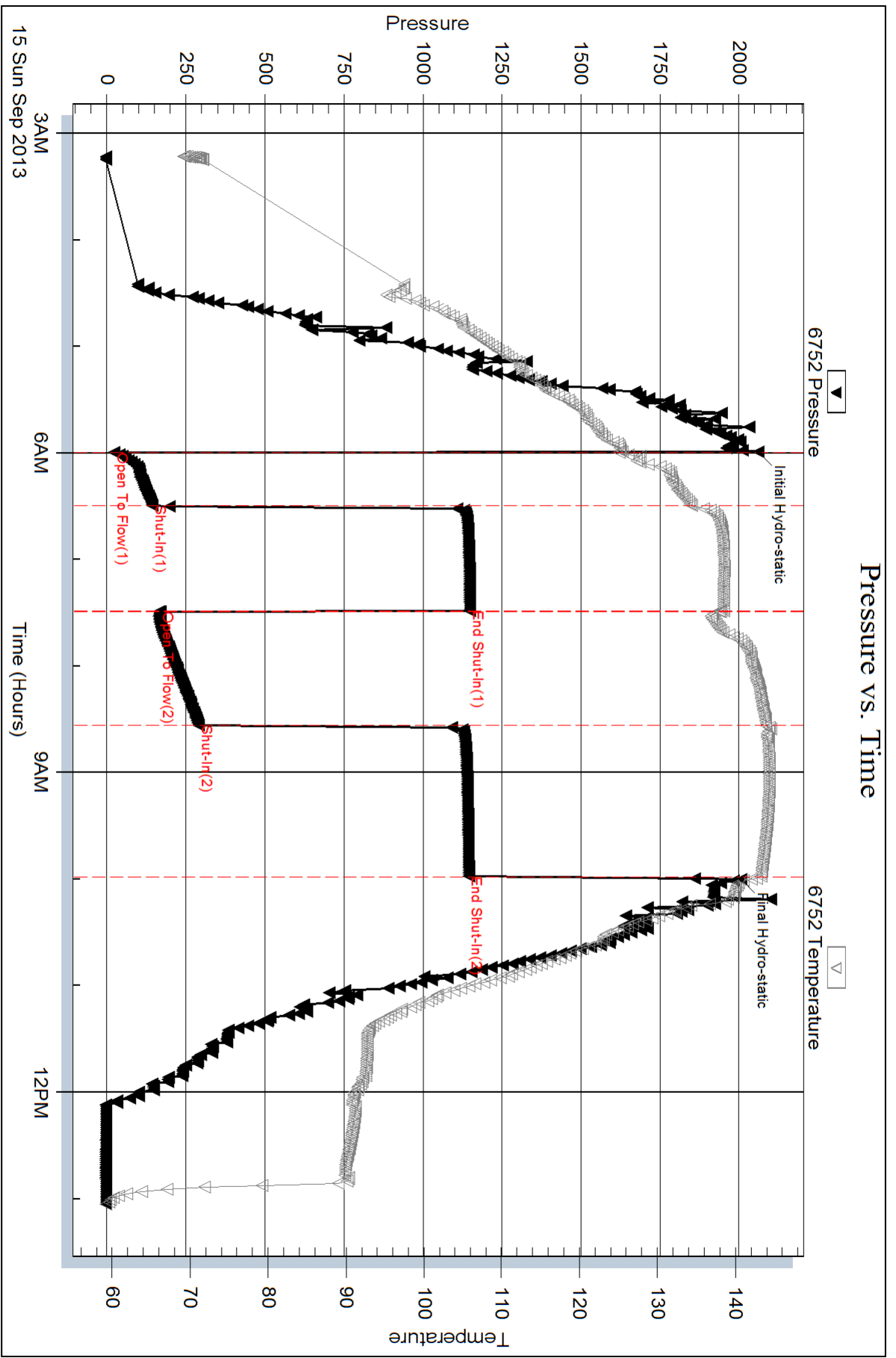
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

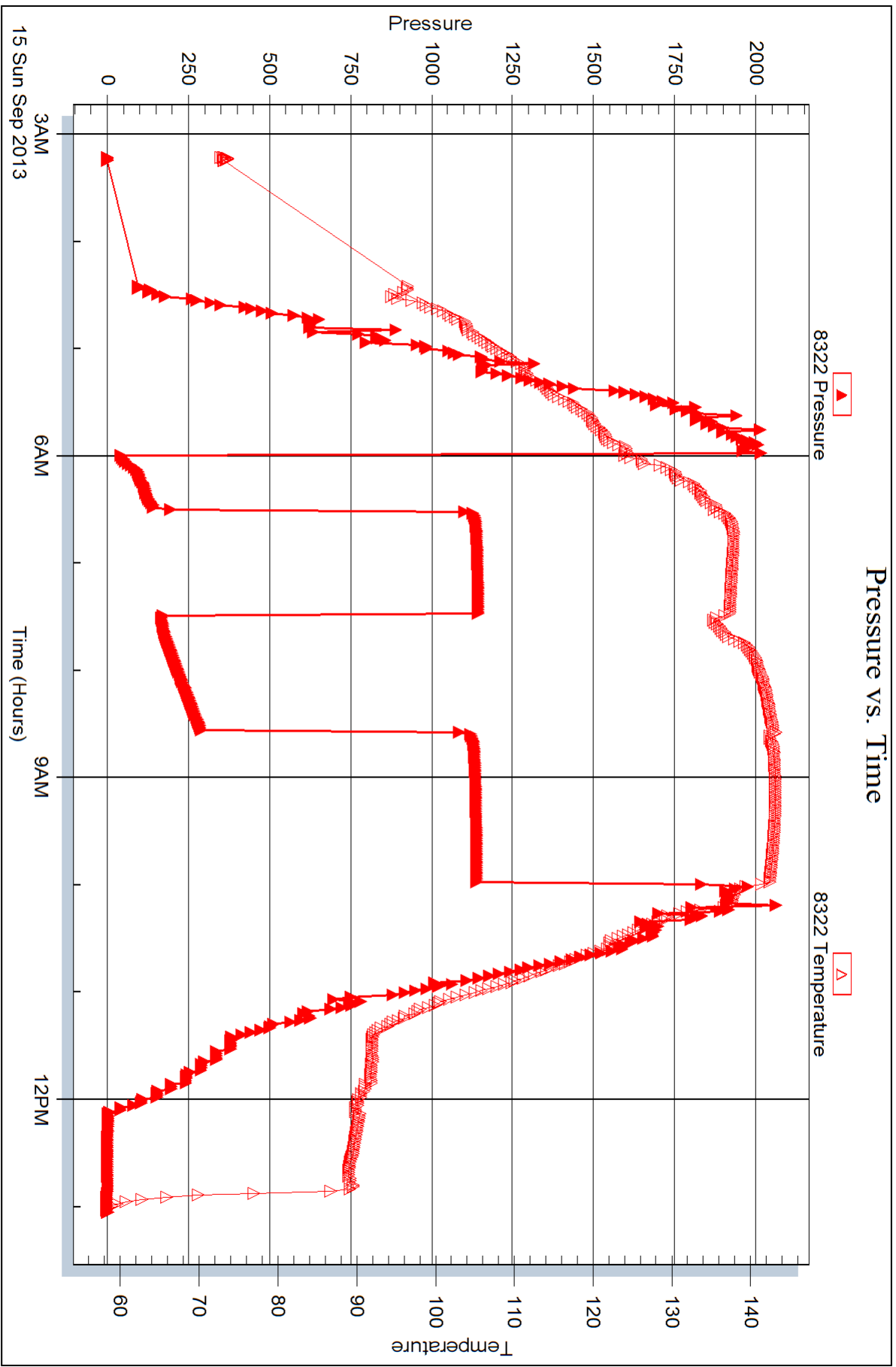


Serial #: 8322

Outside Murfin Drilling Co.

Burk Trust C#1-22

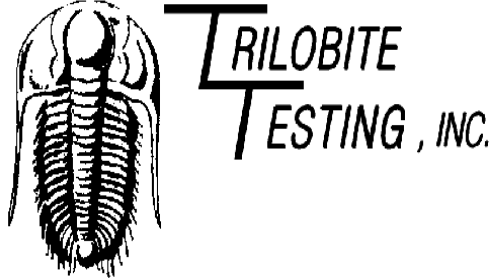
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53518

Printed: 2013.09.20 @ 11:02:36



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #1-22

22-1s-36w Rawlins,KS

Start Date: 2013.09.16 @ 22:02:00

End Date: 2013.09.17 @ 08:58:30

Job Ticket #: 53519 DST #: 2

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

Printed: 2013.09.20 @ 11:01:53

Murfin Drilling Co. 22-1s-36w Rawlins,KS Burk Trust C #1-22 DST # 2 LKC " D " 2013.09.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-1s-36w Rawlins, KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53519

DST#: 2

ATTN: Clayton Erickson

Test Start: 2013.09.16 @ 22:02:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:20

Time Test Ended: 08:58:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4160.00 ft (KB) To 4220.00 ft (KB) (TVD)

Reference Elevations: 3225.00 ft (KB)

Total Depth: 4220.00 ft (KB) (TVD)

3220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 471.27 psig @ 4161.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.16 End Date: 2013.09.16

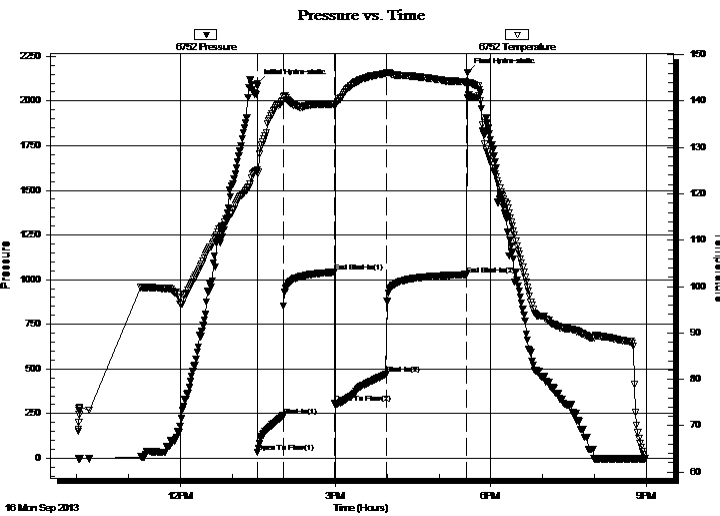
Last Calib.: 2013.09.16

Start Time: 10:02:01 End Time: 20:58:30

Time On Btm: 2013.09.16 @ 13:29:10

Time Off Btm: 2013.09.16 @ 17:33:09

TEST COMMENT: 30 IF - 1" blow built to BoB @ 7 mins
60 ISI - Surface blow return started @ 1 min built to 3"
60 FF - 1/2" blow built to BoB @ 10 mins
90 FSI - Surface blow return started @ 3 mins built to 1"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.73	125.17	Initial Hydro-static
1	33.15	124.80	Open To Flow (1)
30	237.44	140.13	Shut-In(1)
90	1041.99	139.30	End Shut-In(1)
90	307.84	139.09	Open To Flow (2)
150	471.27	145.98	Shut-In(2)
243	1028.37	144.02	End Shut-In(2)
244	2160.19	143.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
346.00	GOMCW - 20%G - 20%o - 5%M - 55%W	3.24
252.00	GOMCW - 25%G 20%o - 10%M 45%W	3.53
305.00	GOMCW - 20%G - 20%o - 35%M - 35%W	4.28
62.00	GOM - 5%G - 35%o - 60%M	0.87
50.00	GO - %5G - 95%o	0.70
0.00	30' GIP	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.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53519

DST#: 2

ATTN: Clayton Erickson

Test Start: 2013.09.16 @ 22:02:00

Tool Information

Drill Pipe:	Length: 3986.00 ft	Diameter: 3.80 inches	Volume: 55.91 bbl	Tool Weight: 2500.00 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4160.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			4134.00	
Shut In Tool	5.00			4139.00	
Hydraulic tool	5.00			4144.00	
Jars	5.00			4149.00	
Safety Joint	2.00			4151.00	
Packer	5.00			4156.00	27.00 Bottom Of Top Packer
Packer	4.00			4160.00	
Stubb	1.00			4161.00	
Recorder	0.00	6752	Inside	4161.00	
Recorder	0.00	8322	Outside	4161.00	
Perforations	29.00			4190.00	
Bullnose	3.00			4193.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53519

DST#: 2

ATTN: Clayton Erickson

Test Start: 2013.09.16 @ 22:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 23.8 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

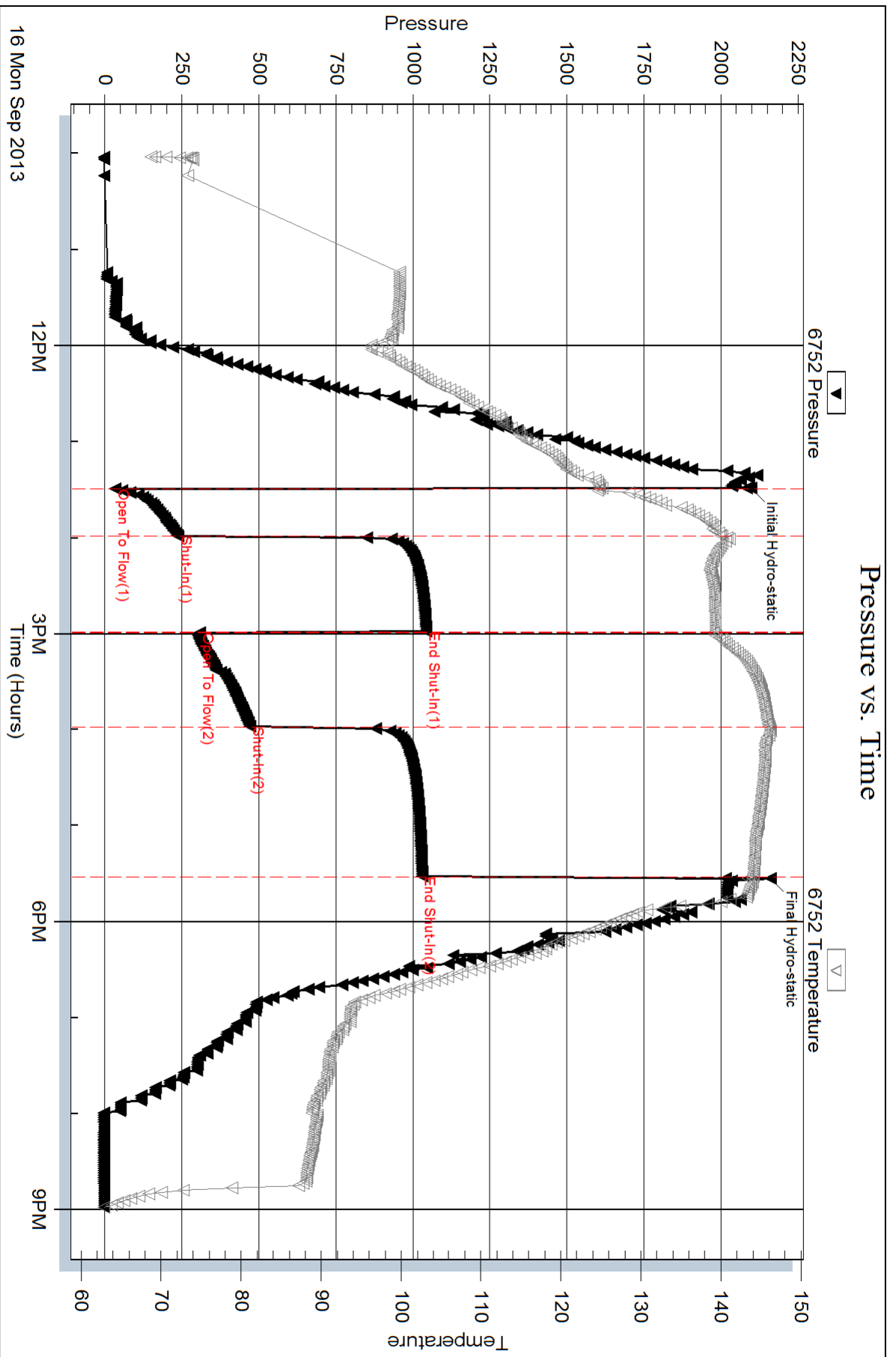
Length ft	Description	Volume bbl
346.00	GOMCW - 20%G - 20%o - 5%M - 55%W	3.241
252.00	GOMCW - 25%G 20%o - 10%M 45%W	3.535
305.00	GOMCW - 20%G - 20%o - 35%M - 35%W	4.278
62.00	GOM - 5%G - 35%o - 60%M	0.870
50.00	GO - %5G - 95%o	0.701
0.00	30' GIP	0.000

Total Length: 1015.00 ft Total Volume: 12.625 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: OIL API = 24 @ 62 DEG F = 23.8 COR 60 DEG F

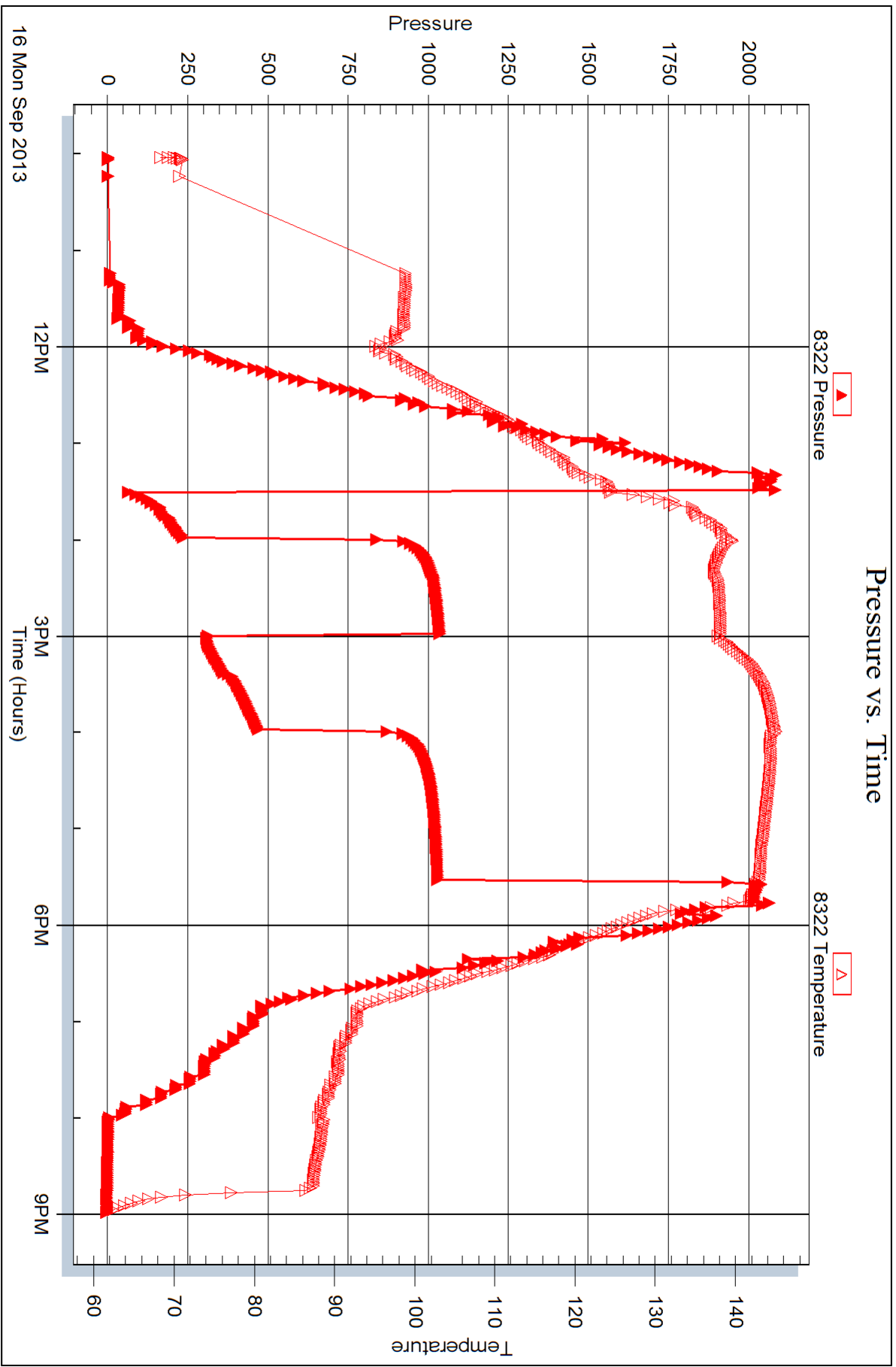


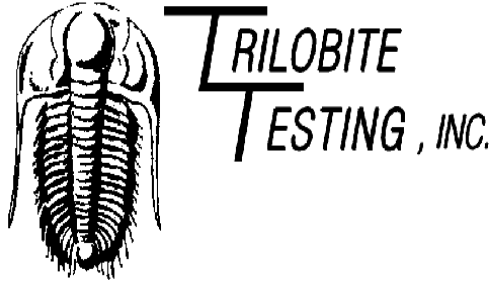
Serial #: 8322

Outside Murfin Drilling Co.

Burk Trust C#1-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #1-22

22-1s-36w Rawlins,KS

Start Date: 2013.09.17 @ 11:34:00

End Date: 2013.09.17 @ 21:48:10

Job Ticket #: 53520 DST #: 3

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

Printed: 2013.09.20 @ 11:01:03

Murfin Drilling Co. 22-1s-36w Rawlins,KS Burk Trust C #1-22 DST # 3 LKC " G - G2 " 2013.09.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-1s-36w Rawlins, KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

ATTN: Clayton Erickson

Job Ticket: 53520

DST#: 3

Test Start: 2013.09.17 @ 11:34:00

GENERAL INFORMATION:

Formation: **LKC " G - G2 "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 21:48:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4232.00 ft (KB) To 4300.00 ft (KB) (TVD)

Reference Elevations: 3225.00 ft (KB)

Total Depth: 4300.00 ft (KB) (TVD)

3220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 298.93 psig @ 4233.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.17

End Date:

2013.09.17

Last Calib.:

2013.09.17

Start Time: 11:34:01

End Time:

21:48:10

Time On Btm:

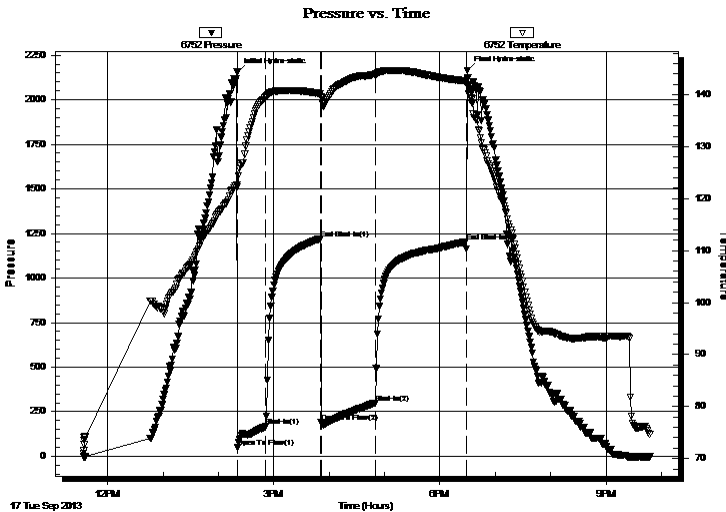
2013.09.17 @ 14:20:10

Time Off Btm:

2013.09.17 @ 18:29:39

TEST COMMENT: 30 IF - 1" blow built to BoB @ 7 mins
60 ISI - Surface blow built to BoB @ 30 mins
60 FF - Surface blow built to BoB @ 9 mins
90 FSI - Surface blow built to BoB @ 46 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.90	122.53	Initial Hydro-static
1	48.25	122.32	Open To Flow (1)
31	166.45	139.56	Shut-In(1)
91	1220.91	140.13	End Shut-In(1)
92	188.77	139.57	Open To Flow (2)
150	298.93	143.90	Shut-In(2)
249	1203.47	142.61	End Shut-In(2)
250	2164.87	142.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
303.00	GMCO - 10%G - 20%M - 70%o	2.64
514.00	GO - 35%G - 65%o	7.21
0.00	756' GIP	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.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53520

DST#: 3

ATTN: Clayton Erickson

Test Start: 2013.09.17 @ 11:34:00

Tool Information

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 bbl	Tool Weight: 2500.00 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: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4232.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 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			4206.00	
Shut In Tool	5.00			4211.00	
Hydraulic tool	5.00			4216.00	
Jars	5.00			4221.00	
Safety Joint	2.00			4223.00	
Packer	5.00			4228.00	27.00 Bottom Of Top Packer
Packer	4.00			4232.00	
Stubb	1.00			4233.00	
Recorder	0.00	6752	Inside	4233.00	
Recorder	0.00	8322	Outside	4233.00	
Perforations	31.00			4264.00	
Change Over Sub	1.00			4265.00	
Drill Pipe	31.00			4296.00	
Change Over Sub	1.00			4297.00	
Bullnose	3.00			4300.00	68.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53520

DST#: 3

ATTN: Clayton Erickson

Test Start: 2013.09.17 @ 11:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
303.00	GMCO - 10%G - 20%M - 70%o	2.638
514.00	GO - 35%G - 65%o	7.210
0.00	756' GIP	0.000

Total Length: 817.00 ft Total Volume: 9.848 bbl

Num Fluid Samples: 0

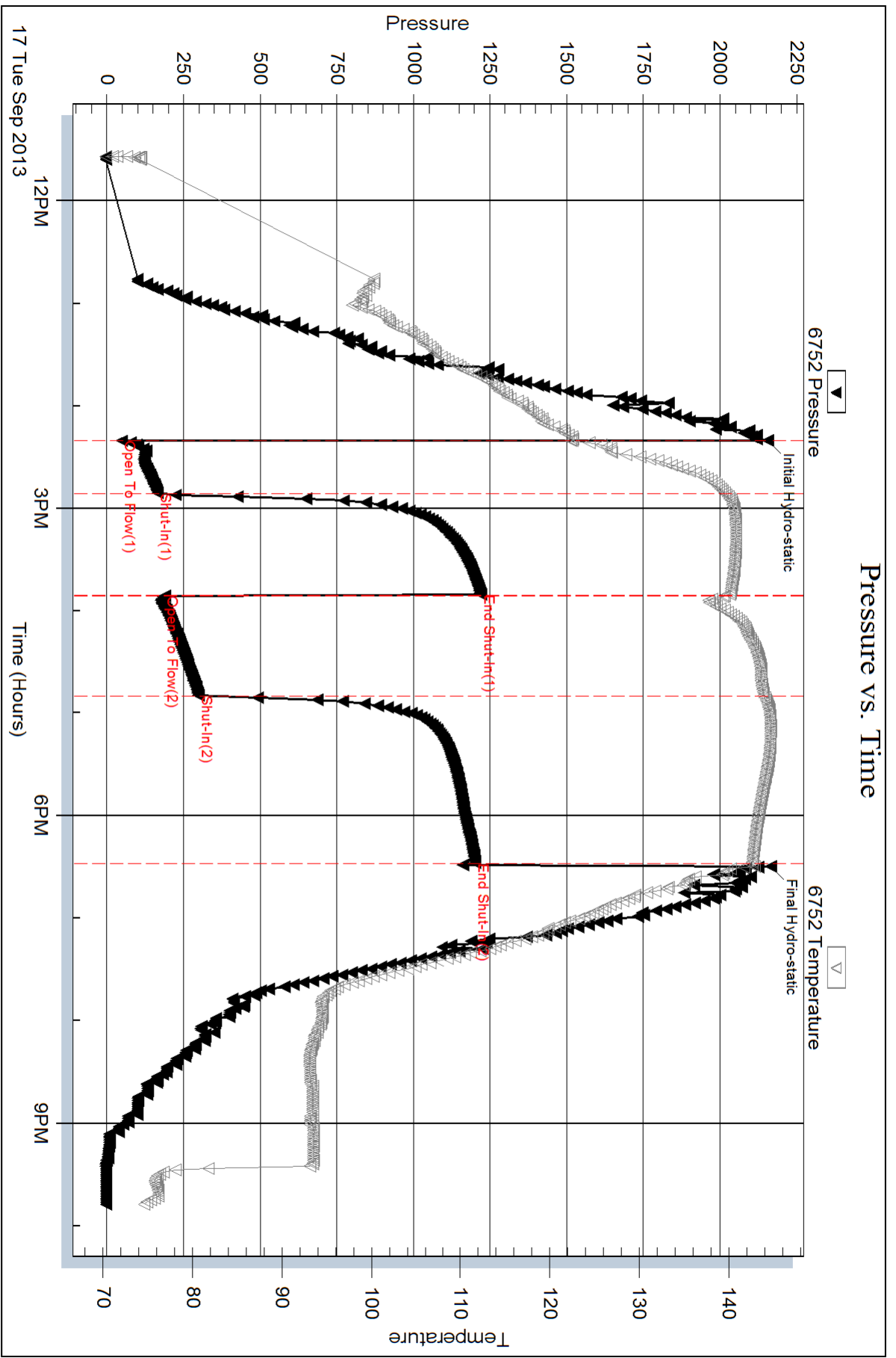
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 30 @ 86 DEG F = 27.4 COR 60 DEG F

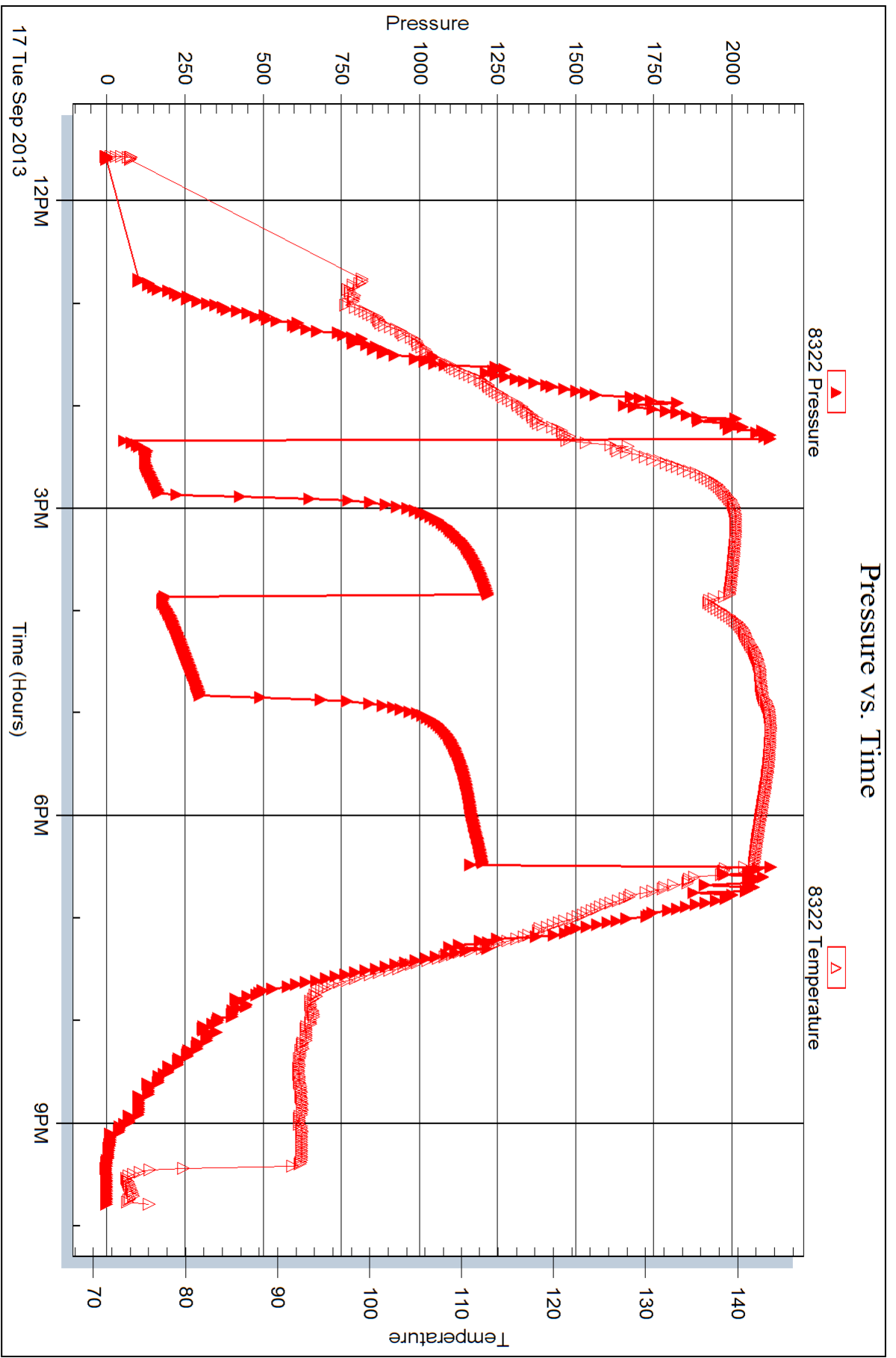


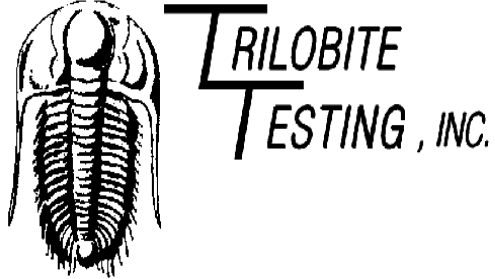
Serial #: 8322

Outside Murfin Drilling Co.

Burk Trust C#1-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water STE 300
Wichita KS 67202

ATTN: Clayton Erickson

Burk Trust C #1-22

22-1s-36w Rawlins,KS

Start Date: 2013.09.18 @ 10:39:00

End Date: 2013.09.18 @ 20:11:10

Job Ticket #: 53521 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.20 @ 11:00:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-1s-36w Rawlins, KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53521

DST#: 4

ATTN: Clayton Erickson

Test Start: 2013.09.18 @ 10:39:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:20

Time Test Ended: 20:11:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 41

Interval: 4312.00 ft (KB) To 4370.00 ft (KB) (TVD)

Reference Elevations: 3225.00 ft (KB)

Total Depth: 4370.00 ft (KB) (TVD)

3220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 72.53 psig @ 4313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.18

End Date:

2013.09.18

Last Calib.:

2013.09.18

Start Time: 10:39:01

End Time:

20:11:10

Time On Btm:

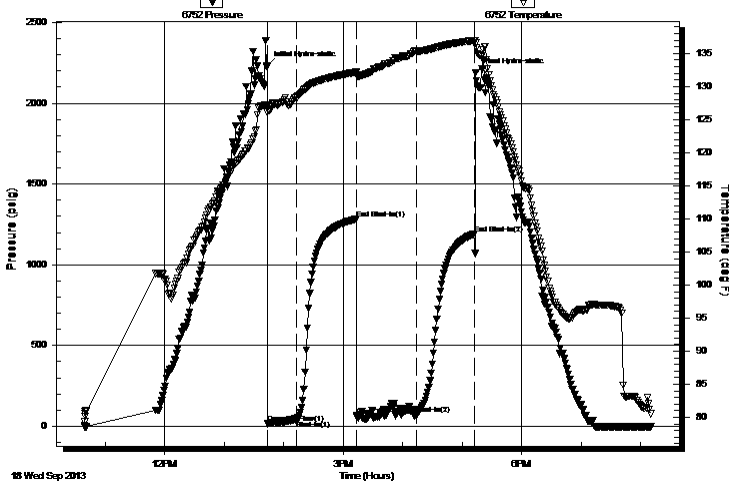
2013.09.18 @ 13:43:10

Time Off Btm:

2013.09.18 @ 17:14:00

TEST COMMENT: 30 IF - Surface blow built to 1 1/4"
60 ISI - No return
60 FF - Surface blow started @ 15 mins built to 1"
60 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.70	127.08	Initial Hydro-static
1	16.30	126.13	Open To Flow (1)
30	37.84	128.32	Shut-In(1)
90	1282.69	132.17	End Shut-In(1)
90	59.28	131.82	Open To Flow (2)
151	72.53	135.37	Shut-In(2)
210	1193.34	136.97	End Shut-In(2)
211	2190.58	136.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM - 10%o - 90%M	0.32

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53521

DST#: 4

ATTN: Clayton Erickson

Test Start: 2013.09.18 @ 10:39:00

Tool Information

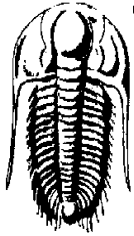
Drill Pipe:	Length: 4114.00 ft	Diameter: 3.80 inches	Volume: 57.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 58.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4312.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.00 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			4286.00	
Shut In Tool	5.00			4291.00	
Hydraulic tool	5.00			4296.00	
Jars	5.00			4301.00	
Safety Joint	2.00			4303.00	
Packer	5.00			4308.00	27.00 Bottom Of Top Packer
Packer	4.00			4312.00	
Stubb	1.00			4313.00	
Recorder	0.00	6752	Inside	4313.00	
Recorder	0.00	8322	Outside	4313.00	
Perforations	21.00			4334.00	
Change Over Sub	1.00			4335.00	
Drill Pipe	31.00			4366.00	
Change Over Sub	1.00			4367.00	
Bullnose	3.00			4370.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-1s-36w Rawlins,KS

250 N. Water STE 300
Wichita KS 67202

Burk Trust C #1-22

Job Ticket: 53521

DST#: 4

ATTN: Clayton Erickson

Test Start: 2013.09.18 @ 10:39:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OCM - 10%o - 90%M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

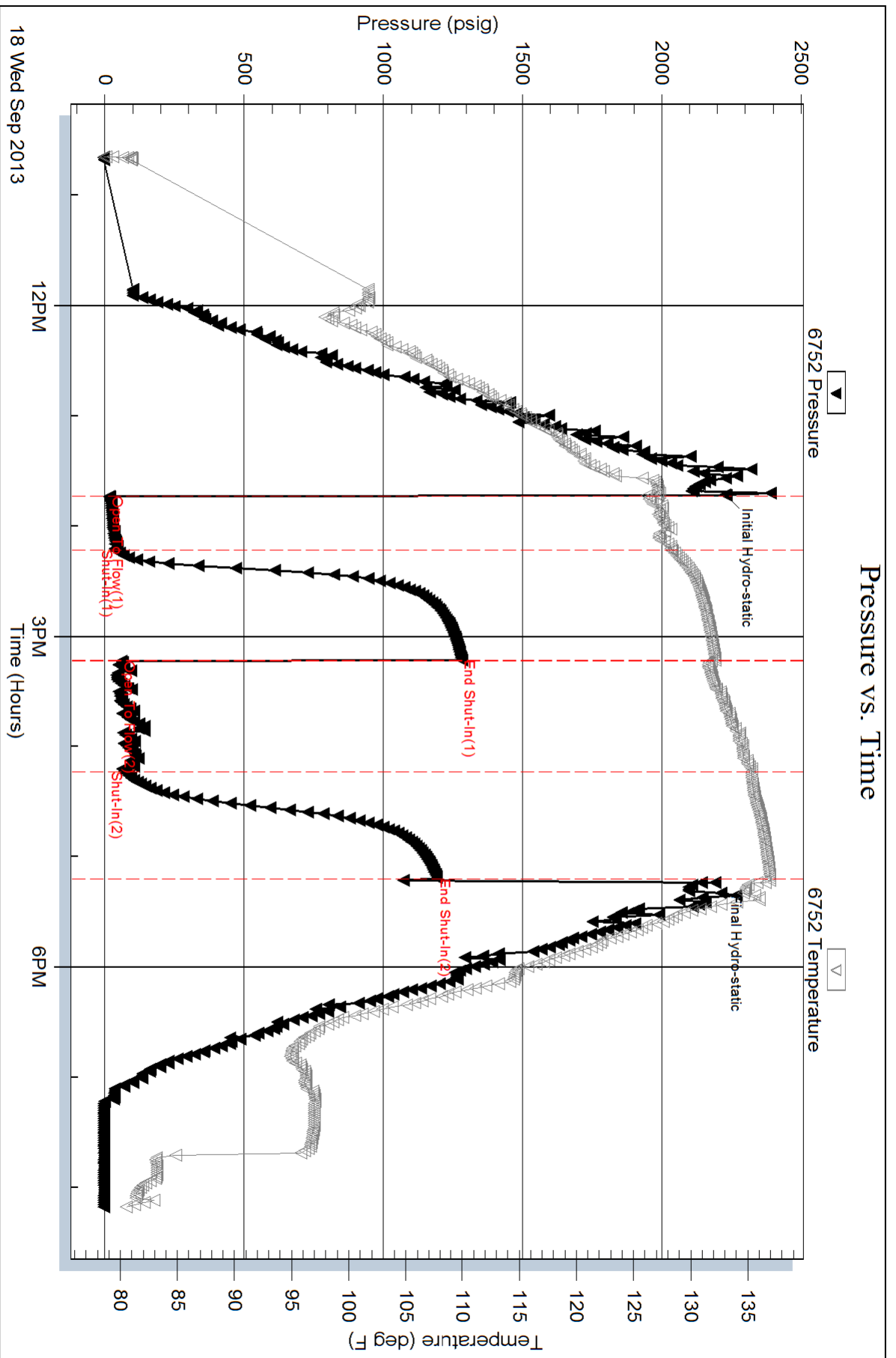
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

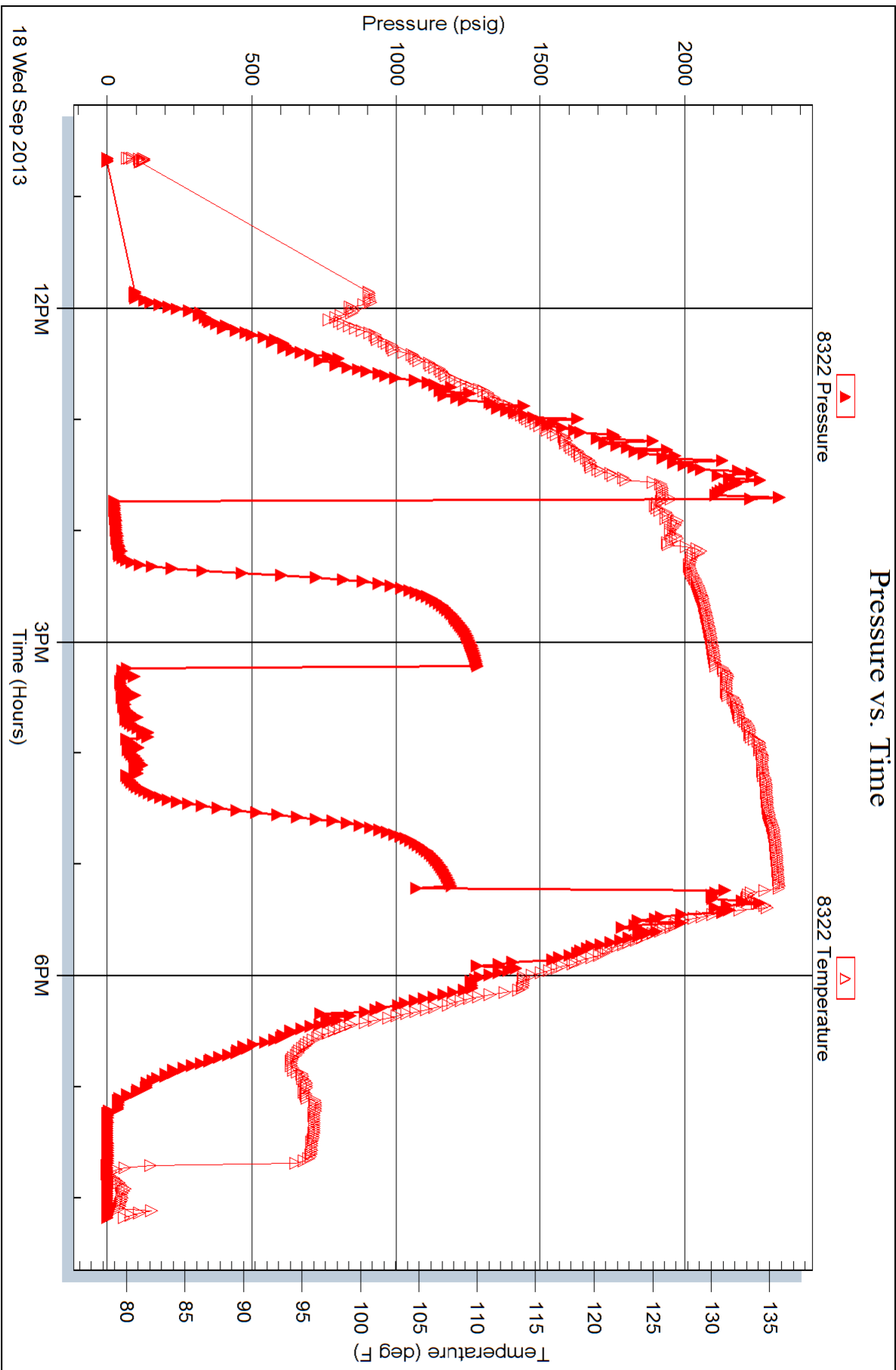


Serial #: 8322

Outside Murfin Drilling Co.

Burk Trust C#1-22

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53518

Well Name & No. Burk Trust C #1-22 Test No. 1 Date 9/19/13
 Company Martin Drilling Co. Elevation 3225 KB 3220 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Clayton Erickson Rig Martin #8
 Location: Sec. 22 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4014 - 4047 Zone Tested Oread
 Anchor Length 33' Drill Pipe Run 3827' Mud Wt. 9.2
 Top Packer Depth 4009 Drill Collars Run 177' Vis 76
 Bottom Packer Depth 4014 Wt. Pipe Run 0' WL 6.8
 Total Depth 4047 Chlorides 800 ppm System LCM 5

Blow Description IF - Surface blow built to Bob @ 13 mins
ISI - Surface blow started @ 5 mins built to 2 1/2"
FF - Surface blow built to Bob @ 17 mins
FSI - Surface blow started @ 10 mins built to 3 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>618'</u>	<u>60</u>	<u>15</u>	<u>85</u>		
<u>126'</u>	<u>OCM</u>		<u>50</u>		<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 744' BHT 143° Gravity 24.8 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2062</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>01:30</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:13</u>
(C) First Final Flow <u>144</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:05</u>
(D) Initial Shut-In <u>1150</u>	<input checked="" type="checkbox"/> Circ Sub <u>NL</u>	T-Pulled <u>09:59</u>
(E) Second Initial Flow <u>168</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1 1/2</u> 150	T-Out <u>13:04</u>
(F) Second Final Flow <u>290</u>	<input checked="" type="checkbox"/> Mileage <u>122 RT</u> 189.10	Comments _____
(G) Final Shut-In <u>1146</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2008</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____

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

Sub Total 1914.10

Approved By _____ 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53519

Well Name & No. Burk Trust C #1-22 Test No. 2 Date 9/16/13
 Company Murfin Drilling Co. Elevation 3225 KB 3220 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Clayton Erickson Rig Murfin #8
 Location: Sec. 22 Twp. 19 Rge. 36 W Co. Rawlins State KS

Interval Tested 4160 - 4220 Zone Tested 2KC "D"
 Anchor Length 60' Drill Pipe Run 3986' Mud Wt. 9.2
 Top Packer Depth 4155 Drill Collars Run 177' Vis 85
 Bottom Packer Depth 4160 Wt. Pipe Run 0' WL 6.0
 Total Depth 4220 Chlorides 700 ppm System LCM 5

Blow Description IF - 1" blow built to Bob @ 7 mins
ISI - Surface blow started @ 1 min built to 3"
FF - 1/2" blow built to Bob @ 10 mins
FSI - Surface blow started @ 3 mins built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>50'</u>	<u>60</u>	<u>5</u>	<u>95</u>		
<u>62'</u>	<u>GOMC</u>	<u>5</u>	<u>35</u>		<u>60</u>
<u>305'</u>	<u>GOMCW</u>	<u>20</u>	<u>10</u>	<u>35</u>	<u>35</u>
<u>252'</u>	<u>GOMCW</u>	<u>25</u>	<u>20</u>	<u>45</u>	<u>10</u>
<u>346'</u>	<u>GOMCW</u>	<u>20</u>	<u>20</u>	<u>55</u>	<u>5</u>

Rec Total _____ BHT _____ Gravity 23.8 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2098 Test 1250 T-On Location ~~09:00~~ 09:00
 (B) First Initial Flow 33 Jars 250 T-Started 10:02
 (C) First Final Flow 237 Safety Joint 75 T-Open 13:29
 (D) Initial Shut-In 1042 Circ Sub NC T-Pulled 17:29
 (E) Second Initial Flow 308 Hourly Standby X2 200 T-Out 20:58
 (F) Second Final Flow 471 Mileage 122 RT 189.10
 (G) Final Shut-In 1028 Sampler _____
 (H) Final Hydrostatic 2160 Straddle _____

Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Sub Total 0
 Day Standby _____
 Total 1964.10
 Accessibility _____
 MP/DST Disc't _____
 Sub Total 1964.10

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

Approved By _____ 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53520

4/10

Well Name & No. Bark Trust C # 1-22 Test No. 3 Date 9/17/13
 Company Murfin Drilling Co. Elevation 3225 KB 3220 GL
 Address 250 N. Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Clayton Erickson Rig Murfin #8
 Location: Sec. 22 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4232 - 4300 Zone Tested LKC "G & G2"
 Anchor Length 68' Drill Pipe Run 4052 Mud Wt. 9.2
 Top Packer Depth 4227 Drill Collars Run 177' Vis 67
 Bottom Packer Depth 4232 Wt. Pipe Run 0' WL 6.0
 Total Depth 4300 Chlorides 1500 ppm System LCM 04

Blow Description IF - 1" built to BoB @ 7 mins
ISI - Surface blow built to BoB @ 30 mins
FF - Surface blow built to BoB @ 9 mins
FSI - Surface blow built to BoB @ 46 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>514</u>	<u>60</u>	<u>35</u>	<u>65</u>		
<u>303'</u>		<u>10</u>	<u>70</u>		<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 817' BHT 143° Gravity 27.4 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2155</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:15</u>
(B) First Initial Flow <u>48</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:34</u>
(C) First Final Flow <u>166</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:21</u>
(D) Initial Shut-In <u>1221</u>	<input checked="" type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>18:21</u>
(E) Second Initial Flow <u>189</u>	<input type="checkbox"/> Hourly Standby <u>.5h 50</u>	T-Out <u>21:48</u>
(F) Second Final Flow <u>299</u>	<input checked="" type="checkbox"/> Mileage <u>122 RT</u> 189.10	Comments <u>756' GIP</u>
(G) Final Shut-In <u>1203</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2165</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>

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

Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —

Sub Total 1814.10

Sub Total 1814.10

Approved By _____ Our Representative Raymond

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53521

Well Name & No. Burk Trust C #1-22 Test No. 4 Date 9/18/13
 Company Murfin Drilling Co. Elevation 3225 KB 3220 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Clayton Erickson Rig Murfin #8
 Location: Sec. 22 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4312-4370 Zone Tested LKC "J"
 Anchor Length 58' Drill Pipe Run 4114' Mud Wt. 9.2
 Top Packer Depth 4307 Drill Collars Run 177' Vis 64
 Bottom Packer Depth 4312 Wt. Pipe Run 0' WL 6.0
 Total Depth 4370 Chlorides 1500 ppm System LCM 6

Blow Description IF - Surface blow built to 1 1/4"
ISI - No return
FF - Surface blow started @ 15 mins built to 1"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65'</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65' BHT 1370 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2231</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:00</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:39</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:43</u>
(D) Initial Shut-In <u>1282</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>17:13</u>
(E) Second Initial Flow <u>59</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:11</u>
(F) Second Final Flow <u>73</u>	<input checked="" type="checkbox"/> Mileage <u>122 RT</u> 189.10	Comments _____
(G) Final Shut-In <u>1193</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2191</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1764.10
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1764.10

Approved By _____

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.



PO Box 93999
Southlake, TX 76092

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

*acct.
Prod-UH*

INVOICE

Invoice Number: 138588
Invoice Date: Sep 10, 2013
Page: 1

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Murfin	61299	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 10, 2013	10/10/13

Quantity	Item	Description	Unit Price	Amount
250.00	CEMENT MATERIALS	Burk Trust C #1-22		
		Class A Common	17.90	4,475.00
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
262.77	CEMENT SERVICE	Cubic Feet	2.48	651.67
968.80	CEMENT SERVICE	Ton Mileage	2.60	2,518.88
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

a 1/2

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

\$ 3,841.88

ONLY IF PAID ON OR BEFORE
Oct 5, 2013

Subtotal	10,976.80
Sales Tax	399.03
Total Invoice Amount	11,375.83
Payment/Credit Applied	
TOTAL	11,375.83

ALLIED OIL & GAS SERVICES, LLC 061299

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>9/10/13</u>	SEC <u>22</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>6:00 p.m.</u>	JOB START <u>7:30 a.m.</u>	JOB FINISH <u>8:00 a.m.</u>
LEASE <u>Bullst C</u>		WELL # <u>1-22</u>	LOCATION <u>McDonald N to Rd W E to Rd S S</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			2 mi N 1 W N into				

CONTRACTOR Martin
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 257'
 CASING SIZE 8 5/8 DEPTH 241.16
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 15.70 bbl

OWNER Same
 CEMENT AMOUNT ORDERED 250 sks Com 3% CC
 COMMON 250 sks @ 17.90 4475.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 9 sks @ 64.00 576.00
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 262.774 @ 2.48 651.67
 MILEAGE 12-11 tons @ 2.60 2518.88
 TOTAL 8221.55

EQUIPMENT
 PUMP TRUCK CEMENTER Paul Beaver
 # 170 HELPER Tyler Flipse
 BULK TRUCK
 # 600 DRIVER Brandon Wilkinson
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Mix 250 sks Com 3% CC
Displace with water
Cement did circulate

Thank Paul!

CHARGE TO: Martin Drilling Co, Inc
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 257'
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE MHV 80 @ 7.70 616.00
 MANIFOLD Sawdgc @ 275.00
MILV 80 @ 4.40 352.00
 _____ @ _____
 TOTAL 2755.25

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

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

PRINTED NAME Raney Farr
 SIGNATURE Raney Farr

SALES TAX (if Any) _____
 TOTAL CHARGES 10,976.80
 DISCOUNT 3,841.88 IF PAID IN 30 DAYS
7134.92 Net.



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

INVOICE

Invoice # 262535

=====
Invoice Date: 09/26/2013 Terms: 10/10/30,n/30 Page 1
=====

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

Burk
BUCK TRUST C #1-22
44307
22-1S-36W
09-20-2013 USED FOR 12/03
KS
APPROVED JK

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1104S	CLASS "A" CEMENT (SALE)	300.00	18.5500	5565.00
1102	CALCIUM CHLORIDE (50#)	564.00	.9400	530.16
1101	CAL SEAL	564.00	.5200	293.28
1111A	SODIUM METASILICATE	564.00	2.5200	1421.28
1118B	PREMIUM GEL / BENTONITE	564.00	.2700	152.28
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4136	TURBOLIZER 5 1/2"	15.00	75.7500	1136.25
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4315	ROTATING SCRATCHERS	10.00	94.5000	945.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1824.17
9995-130	CEMENT EQUIPMENT DISCOUNT	-678.48

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
460 TON MILEAGE DELIVERY	1.00	1608.00	1608.00
T-127 TON MILEAGE DELIVERY	1.00	1608.00	1608.00

Amount Due 26467.54 if paid after 10/26/2013

Parts:	18241.70	Freight:	.00	Tax:	1296.98	AR	23820.78
Labor:	.00	Misc:	.00	Total:	23820.78		
Sublt:	-2502.65	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

262535

TICKET NUMBER 44307
LOCATION Okla ks
FOREMAN Miles Shaw
Walt Dunbar

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-20-13	5406	Buck Trust C #1-22	22	13	36W	Rawlins
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
MunFin Dels Co			399	Jordan London		
MAILING ADDRESS			528-7127	Cody Rantz		
CITY			460	Steven Odell		
STATE						
ZIP CODE						

JOB TYPE: Prod HOLE SIZE: 7 7/8 HOLE DEPTH: 4720' CASING SIZE & WEIGHT: 5 1/2" 15.5#
CASING DEPTH: 4717' DRILL PIPE: _____ TUBING: _____ OTHER: _____
SLURRY WEIGHT: 10.7-13.8 SLURRY VOL: _____ WATER gal/sk: _____ CEMENT LEFT IN CASING: 21.50
DISPLACEMENT: 111.0 DISPLACEMENT PSI: _____ MIX PSI: _____ RATE: 6 BPM

REMARKS: Safety blasting, rig up on Martin #8, run Float Equipment, circ
Halfway in, casing on bottom, circ 1 Hr Pump 500 gal mud Floor 2
mix 250 SKS CMD, 6# Flo Seal, Tailin w/ 200 SKS OWC, 5# Kalsol
Clear Pump + Lines Displace 111.0 Bbl H₂O @ 1500#, Landed Plug @ 2000#
release pressure, Float Heald,
Mix 30 SKS in RHT
Mix 20 SKS in MHT

Concrete Dial Crce
Approx 25 SKS to RHT

Rotating Heald

Thank You
Walt, Miles + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	75	MILEAGE	5.25	393.75
5407A	24.5	Tan Mileage Delivery	1.25	3216.00
1126	200 SKS	OWC	23.70	4740.00
111.0 A	1000#	Kalsol	.56	560.00
1104S	300 SKS	Class A Cement	18.55	5565.00
1102	564#	Cell cium Chloride	.94	530.16
1101	564#	Cell Seal	.52	293.28
1111A	564#	meta silicate	2.52	1421.28
1118B	564#	Bentonite	.27	152.28
1142A	2 gal	KCl	41.10	82.20
1144.6	500 gal	mud Flush	1.00	500.00
4159	1	5/8 AFU Float shoe	433.75	433.75
4451	1	5/8 Latch down Plug (W)	567.00	567.00
4136	15	5/8 Turbulizers	75.75	1136.25
4104	3	5/8 Baskets	290.00	870.00
2315	10	5" Scratchers	94.50	945.00
1107	150#	Flo Seal	2.97	445.50

Completed

Revin 3737

Subtotal = 25,026.45

Less 10% Disc = 2,502.65

Total = 22,523.80

SALES TAX 7.9% 1296.98
ESTIMATED TOTAL 23820.78

AUTHORIZATION [Signature] TITLE _____ 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.