



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1106934
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: _____



1106934

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

January 07, 2013

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

Re: ACO1
API 15-055-22179-00-00
Marabelle 1-4
SE/4 Sec.04-21S-34W
Finney County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

MDCI Marabelle #1-4 1100' FSL 1000' FEL Sec. 4-T21S-R34W 2994' KB							Woolsey Petroleum Carey Bretz # 660FNL 660FWL Sec. 9-T21S-R34W 3020' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log Top	Datum
Anhydrite	2019	+975	+9	2028	+966	FLAT	2054	+966
B/Anhydrite	2124	+870	+1	2122	+872	+3	2151	+869
Topeka	3542	-548	+4	3545	-551	+1	3572	-552
Heebner	3823	-829	+6	3829	-835	FLAT	3855	-835
Lansing	3874	-880	+6	3873	-879	+7	3906	-886
Stark	4192	-1198	+6	4194	-1200	+4	4224	-1204
Pawnee	4446	-1452	+18	4447	-1453	+17	4490	-1470
Ft. Scott	4485	-1491	+17	4494	-1500	+8	4528	-1508
Johnson	4554	-1560	+17	4562	-1568	+9	4597	-1577
Morrow	4671	-1677	+21	4679	-1685	+14	4718	-1698
Mississippian	4735	-1741	+13	4738	-1744	+10	4774	-1754
RTD	4900						5063	
LTD				4902			5058	

Jeff Christian

PETROLIUM GEOLOGIST
Wichita, Kansas

OPERATOR MUFNIN DRILLING COMPANY		GEOLOGISTS REPORT	
LEADER MARABEL # 4		DRILLING TIME AND SAMPLE LOG	
LOCATION 1100 F&E & 1000' FEL		ELEVATIONS 2994' 2993'	
SEC. 4 TWP. 21 S R. 34 W		INDEPENDENT FORMER	
COUNTY FINNEY STATE KANSAS		CASING RECORD Condition: NONE	
FIELD WILDCAT		Surface: 8 5/8" @ 230' W/ 105 SK	
API 15-05-22179		RIG NO. 21	
CONTRACTOR COMPANY TOOLS		W/ 105 SK 1/2" @ 489'	
DRILLING STARTED 09/25/2012 COMPLETED 09/28/2012		W/ 105 SK 1/2" @ 489'	
MUD DISPATCHED 3401 MUD TYPE CHEMICAL		W/ 105 SK 1/2" @ 489'	
DRILLING TIME KEPT FROM 3445 TO R/D		W/ 105 SK 1/2" @ 489'	
SAMPLES SAVED FROM 3445 TO R/D		W/ 105 SK 1/2" @ 489'	
SAMPLES EXAMINED FROM 3445 TO R/D		W/ 105 SK 1/2" @ 489'	
GEOLOGICAL SUPERVISION FROM 3470' TO R/D		W/ 105 SK 1/2" @ 489'	
FORMATION NAME		LOGS DATE	
BASE ANHYDRITE		TOP DATE	
TOPEKA		TOP DATE	
HEEBNER		TOP DATE	
LANING		TOP DATE	
STARK		TOP DATE	
MARMATON		TOP DATE	
CHEROKEE		TOP DATE	
MORROW SH.		TOP DATE	
MISSES (51' GEN)		TOP DATE	
TOTAL DEPTH		TOP DATE	

DATE	7:00 AM DEPTH	REMARKS
9/15/12	MIRT	SPUD 5:00 pm
9/16/12	470'	DRLG. dev. 3/4 deg. @ 230'
9/17/12	2593'	DRLG.
9/18/12	3700'	DRLG.
9/19/12	4153'	CFS dev. 1 deg. @ 4153'
9/20/12	4205'	OB w/ DST # 2
9/21/12	4380'	OB w/ DST # 3
9/22/12	4430'	TOH with DST # 4
9/23/12	4483'	TOH after DST # 5 dev. 1 deg. @ 4483'
9/24/12	4614'	DRLG.
9/25/12	4774'	DRLG. RTD 4900' @ 3:36 pm dev. 3/4 deg. @ 4900'

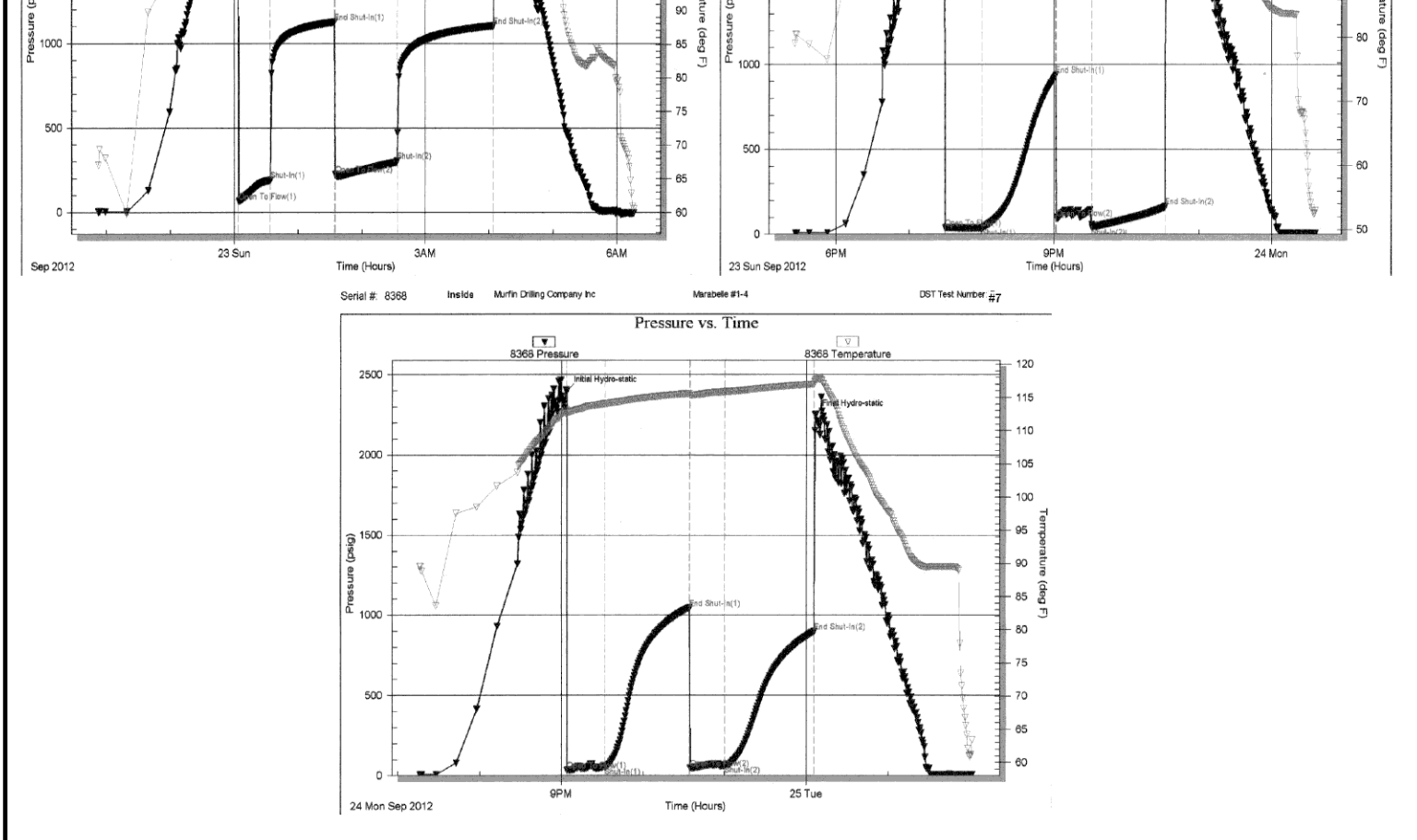
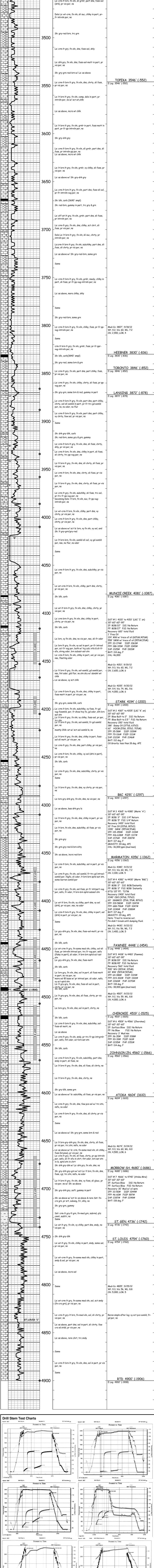
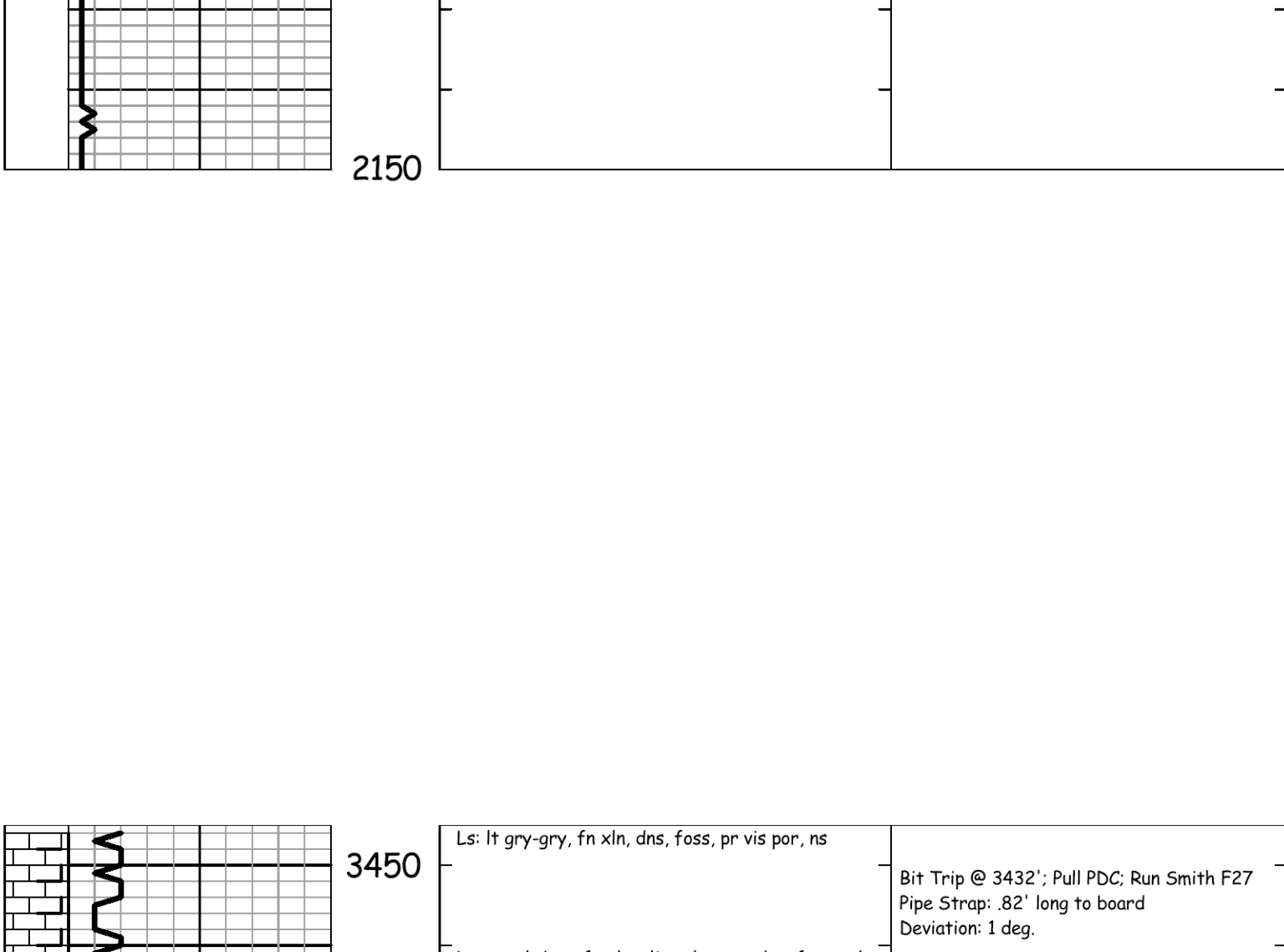
Remarks

5 1/2" production casing set to further test the Lansing / Kansas City and Marmaton formations.

Electric log measurements correlate about even compared to rotary measurements.
Sample tops adjusted to the electric log.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,
Jeff Christian
Jeff Christian





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.19 @ 12:02:00

End Date: 2012.09.19 @ 20:12:45

Job Ticket #: 49406 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:12:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc
 250 N. Water STE 300
 Wichita, KS 67202+1216
 ATTN: Jeff Christian

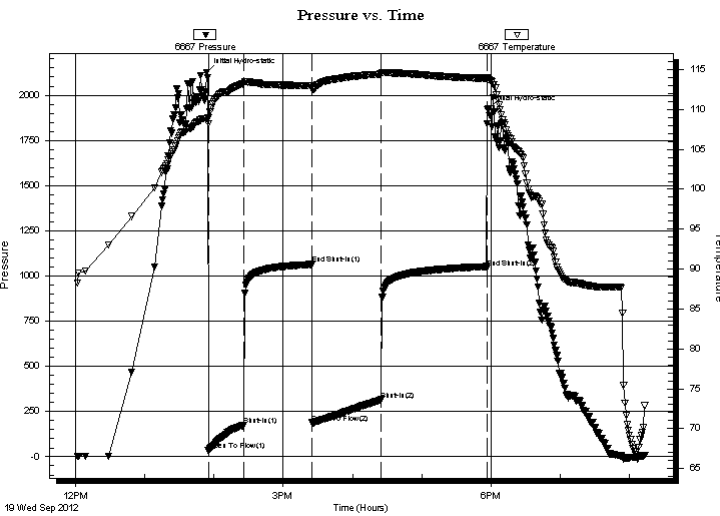
4-21s-34w Finney,KS
Marabelle #1-4
 Job Ticket: 49406 **DST#: 1**
 Test Start: 2012.09.19 @ 12:02:00

GENERAL INFORMATION:

Formation: **Lansing KC. I Zone**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:55:15 Tester: Troy Leiker
 Time Test Ended: 20:12:45 Unit No: 55
 Interval: **4120.00 ft (KB) To 4153.00 ft (KB) (TVD)** Reference Elevations: 2994.00 ft (KB)
 Total Depth: 4153.00 ft (KB) (TVD) 2983.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
 Press @ Run Depth: 315.69 psig @ 4121.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.19 End Date: 2012.09.19 Last Calib.: 2012.09.19
 Start Time: 12:02:15 End Time: 20:12:45 Time On Btm: 2012.09.19 @ 13:53:45
 Time Off Btm: 2012.09.19 @ 17:57:00

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 22 min.
 IS 60 No Blow Back
 FF 60 Strong Blow , Off Bottom in 27 min.
 FS 90 No Blow Back



PRESSURE SUMMARY

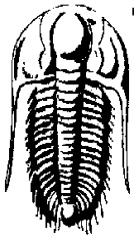
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.75	108.88	Initial Hydro-static
2	33.84	108.27	Open To Flow (1)
32	174.65	113.25	Shut-In(1)
91	1063.94	112.96	End Shut-In(1)
92	188.16	112.64	Open To Flow (2)
151	315.69	114.43	Shut-In(2)
243	1045.94	113.89	End Shut-In(2)
244	1920.68	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	Salt Water with Oil Trace on Top 95%w	55.39
124.00	Muddy Water w/ Oil Trace 60%w 40%w	1.74
1.00	Clean Oil 100%	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

4-21s-34w Finney, KS

Marabelle #1-4

Job Ticket: 49406

DST#: 1

Test Start: 2012.09.19 @ 12:02:00

GENERAL INFORMATION:

Formation: **Lansing KC. I Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:15

Time Test Ended: 20:12:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: 55

Interval: **4120.00 ft (KB) To 4153.00 ft (KB) (TVD)**

Total Depth: 4153.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8368 **Inside**

Press @ Run Depth: psig @ 4121.00 ft (KB)

Start Date: 2012.09.19

End Date:

2012.09.19

Capacity: 8000.00 psig

Last Calib.:

1899.12.30

Start Time:

12:02:15

End Time:

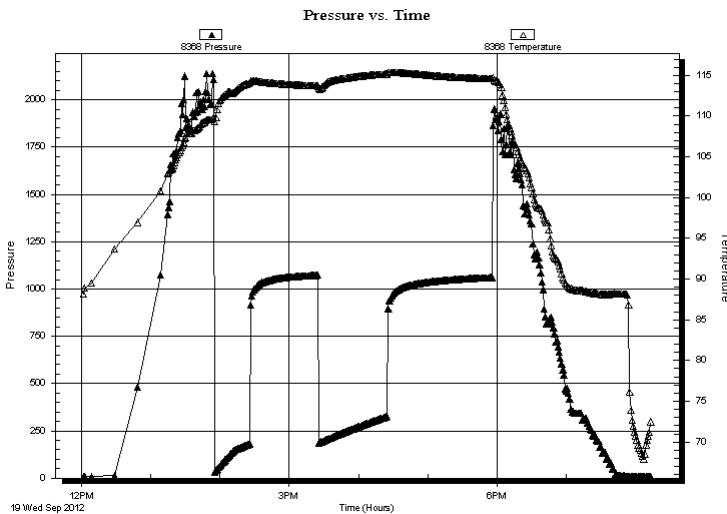
20:12:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 22 min.
IS 60 No Blow Back
FF 60 Strong Blow , Off Bottom in 27 min.
FS 90 No Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
558.00	Salt Water with Oil Trace on Top 95%w	55.39
124.00	Muddy Water w / Oil Trace 60%w 40%w	1.74
1.00	Clean Oil 100%o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49406

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.09.19 @ 12:02:00

Tool Information

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 55.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4120.00 ft			Final 72000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4094.00	
Shut In Tool	5.00			4099.00	
Hydraulic tool	5.00			4104.00	
Jars	5.00			4109.00	
Safety Joint	2.00			4111.00	
Packer	5.00			4116.00	27.00 Bottom Of Top Packer
Packer	4.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	6667	Outside	4121.00	
Recorder	0.00	8368	Inside	4121.00	
Perforations	27.00			4148.00	
Bullnose	5.00			4153.00	33.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49406

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.09.19 @ 12:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	Salt Water with Oil Trace on Top 95%w 5%	5.386
124.00	Muddy Water w / Oil Trace 60%w 40%m	1.739
1.00	Clean Oil 100%o	0.014

Total Length: 683.00 ft Total Volume: 7.139 bbl

Num Fluid Samples: 0

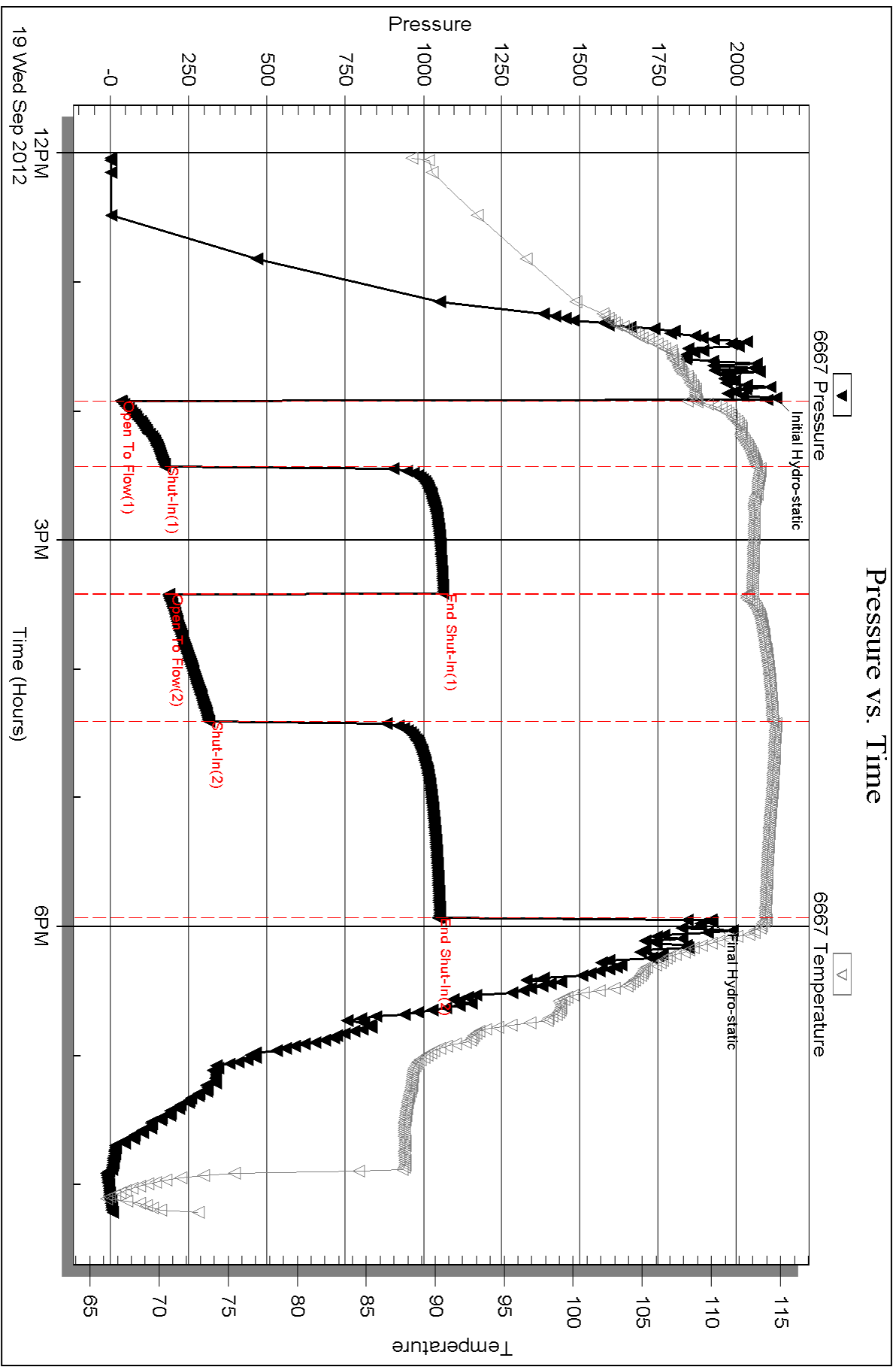
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW 1.12@87 4600 Chlorides



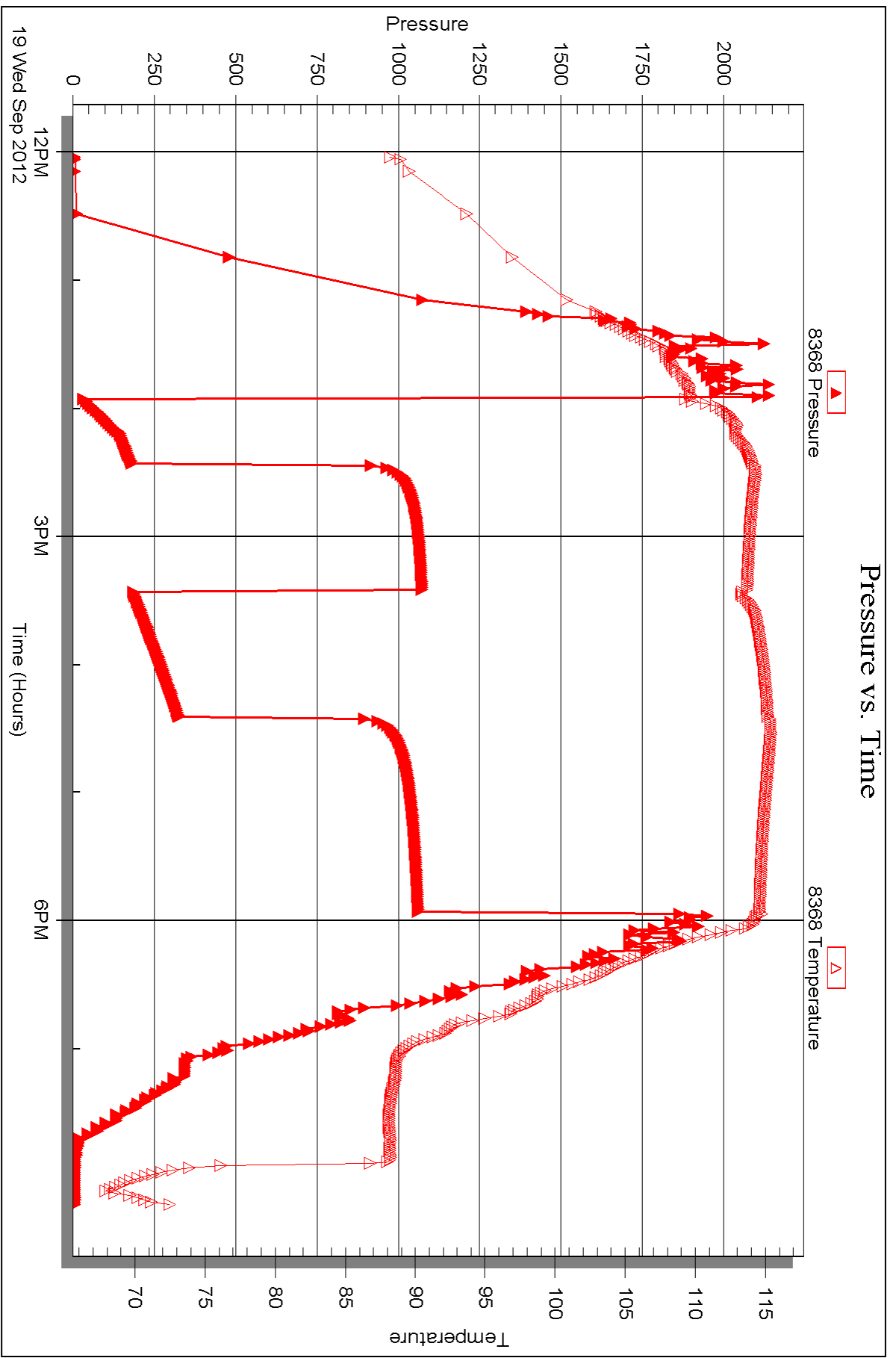
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49406

Printed: 2012.09.28 @ 08:12:13



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.20 @ 03:53:00

End Date: 2012.09.20 @ 12:07:45

Job Ticket #: 49407 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:11:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

GENERAL INFORMATION:

Formation: **Lansing KC K Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:30

Time Test Ended: 12:07:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4187.00 ft (KB) To 4205.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 116.88 psig @ 4188.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.20

End Date:

2012.09.20

Last Calib.:

2012.09.27

Start Time: 03:53:15

End Time:

12:07:45

Time On Btm:

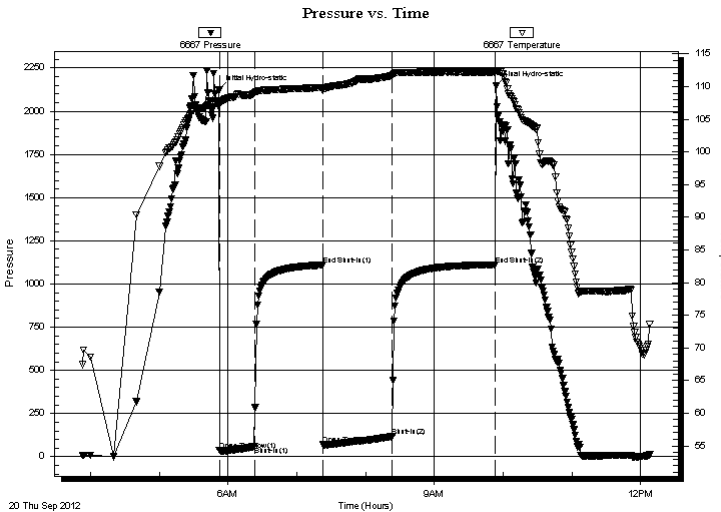
2012.09.20 @ 05:52:15

Time Off Btm:

2012.09.20 @ 09:53:45

TEST COMMENT: IF 30 Weak Blow , Increased Slow ly to 2"
IS 60 No Blow
FF 60 Weak Blow , Increased to 2.5"
FS 90 No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.69	107.72	Initial Hydro-static
1	35.53	107.25	Open To Flow (1)
31	58.73	108.90	Shut-In(1)
91	1109.20	109.86	End Shut-In(1)
91	70.27	109.43	Open To Flow (2)
151	116.88	111.65	Shut-In(2)
241	1111.67	112.26	End Shut-In(2)
242	2146.10	112.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	HOCM 5%G 25%O 70%M	0.30
124.00	Clean Gassy Oil 30%G 70%O	0.61
64.00	Clean Gassy Oil 50%G 50%O	0.31

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney, KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

ATTN: Jeff Christian

Job Ticket: 49407

DST#: 2

Test Start: 2012.09.20 @ 03:53:00

GENERAL INFORMATION:

Formation: **Lansing KC K Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:52:30

Time Test Ended: 12:07:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4187.00 ft (KB) To 4205.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4205.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press @ RunDepth: psig @ 4188.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.20

End Date:

2012.09.20

Last Calib.:

1899.12.30

Start Time: 03:53:15

End Time:

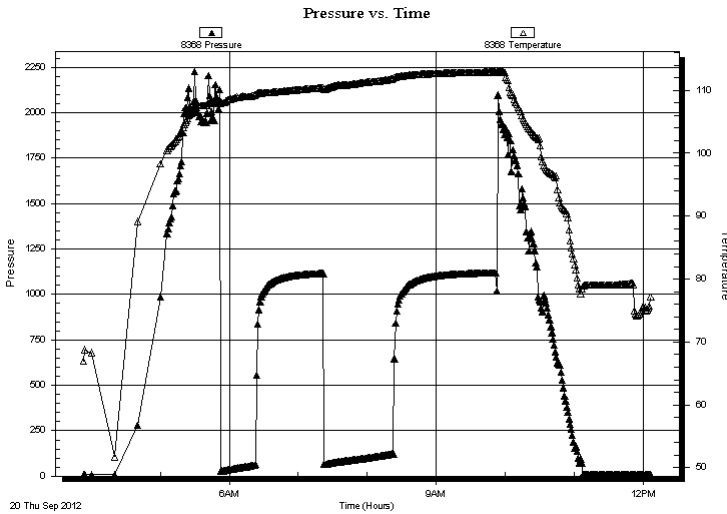
12:07:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Weak Blow , Increased Slow ly to 2"
IS 60 No Blow
FF 60 Weak Blow , Increased to 2.5"
FS 90 No Blow

PRESSURE SUMMARY



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

Length (ft)	Description	Volume (bbl)
62.00	HOCM 5%G 25%O 70%M	0.30
124.00	Clean Gassy Oil 30%G 70%O	0.61
64.00	Clean Gassy Oil 50%G 50%O	0.31

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 56.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4187.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 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			4161.00	
Shut In Tool	5.00			4166.00	
Hydraulic tool	5.00			4171.00	
Jars	5.00			4176.00	
Safety Joint	2.00			4178.00	
Packer	5.00			4183.00	27.00 Bottom Of Top Packer
Packer	4.00			4187.00	
Stubb	1.00			4188.00	
Recorder	0.00	6667	Outside	4188.00	
Recorder	0.00	8368	Inside	4188.00	
Perforations	13.00			4201.00	
Bullnose	5.00			4206.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49407

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.09.20 @ 03:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	HOCM 5%G 25%O 70%M	0.305
124.00	Clean Gassy Oil 30%G 70%O	0.610
64.00	Clean Gassy Oil 50%G 50%O	0.315

Total Length: 250.00 ft Total Volume: 1.230 bbl

Num Fluid Samples: 0

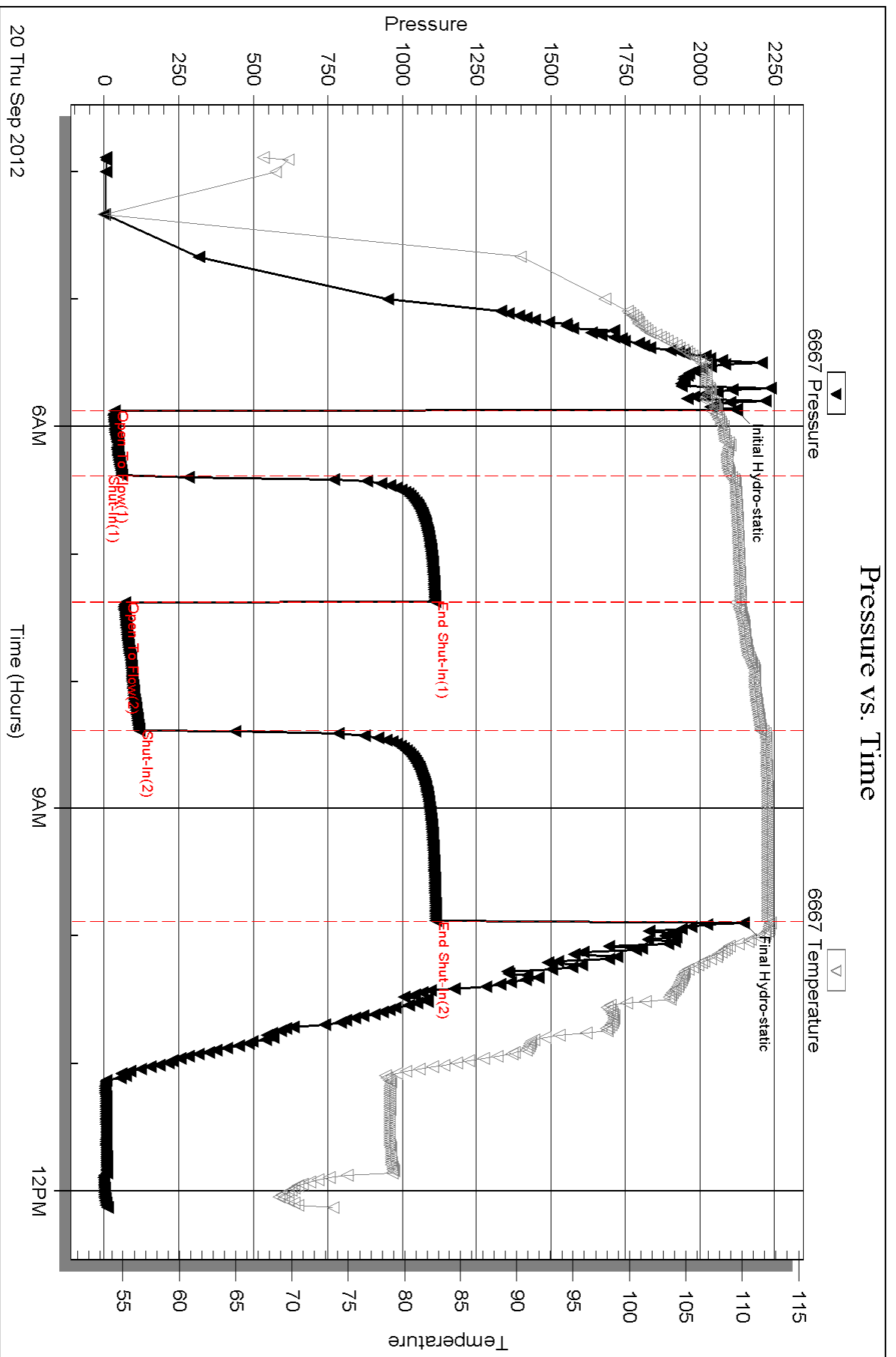
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity is Less Than 18



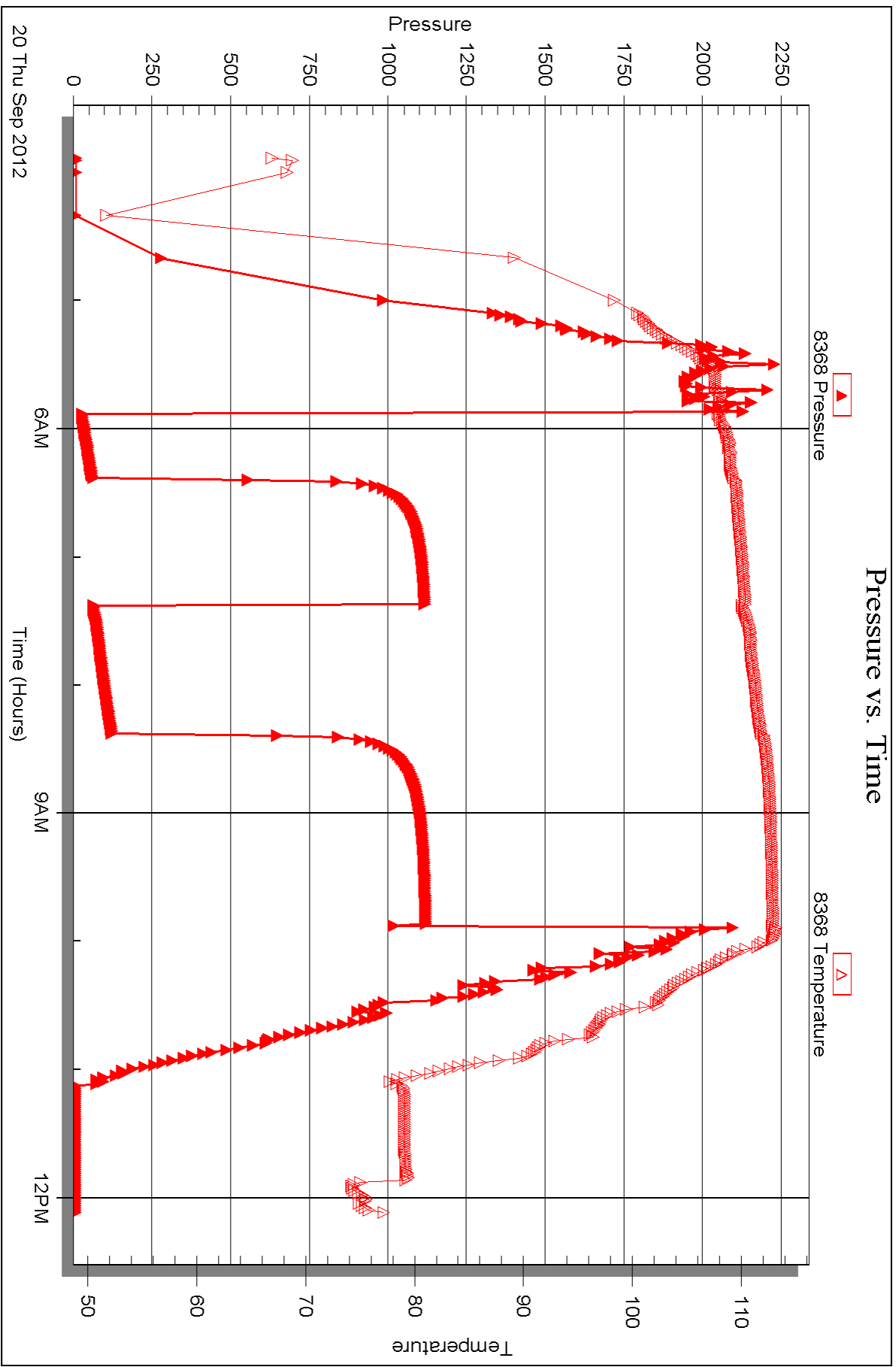
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.21 @ 05:02:00

End Date: 2012.09.21 @ 13:28:15

Job Ticket #: 49408 DST #: 3

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

Printed: 2012.09.28 @ 08:10:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:30

Time Test Ended: 13:28:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4365.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4153.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ RunDepth: 638.89 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.21

End Date:

2012.09.21

Last Calib.:

2012.09.21

Start Time: 05:02:15

End Time:

13:28:15

Time On Btm:

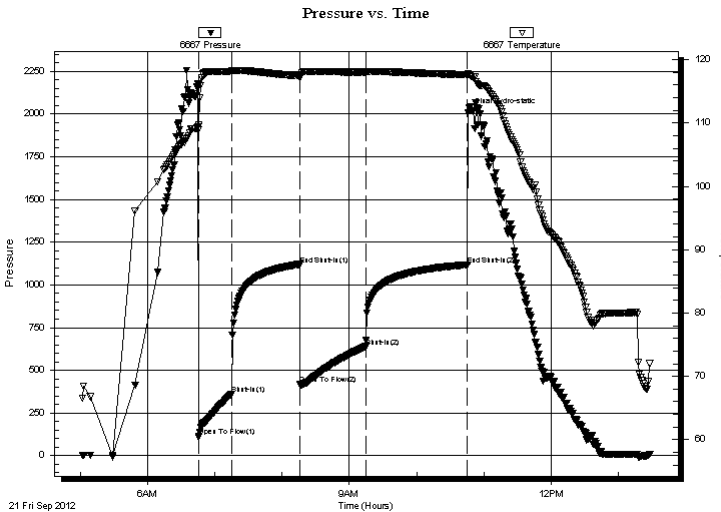
2012.09.21 @ 06:45:15

Time Off Btm:

2012.09.21 @ 10:45:45

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 3 min.
IS 60 Weak Blow 1/4" in Bkt.
FF 60 Strong Blow , Off Bottom in 5 min.
FS 90 Weak Blow , 1/4" in Bkt..

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.11	109.36	Initial Hydro-static
1	115.16	108.91	Open To Flow (1)
30	359.18	118.11	Shut-In(1)
91	1119.64	117.44	End Shut-In(1)
91	416.41	117.16	Open To Flow (2)
150	638.89	118.01	Shut-In(2)
240	1117.86	117.62	End Shut-In(2)
241	2007.10	117.69	Final Hydro-static

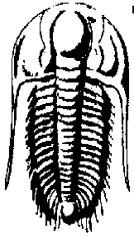
Recovery

Length (ft)	Description	Volume (bbl)
1390.00	Salt Water 95%w 5%m	17.06
10.00	Clean Gassy Oil 20%g 80%o	0.14
250.00	Gas in Pipe	3.51

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc
 250 N. Water STE 300
 Wichita, KS 67202+1216
 ATTN: Jeff Christian

4-21s-34w Finney,KS

Marabelle #1-4

Job Ticket: 49408 **DST#: 3**
 Test Start: 2012.09.21 @ 05:02:00

GENERAL INFORMATION:

Formation: **Marmaton A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:45:30
 Time Test Ended: 13:28:15

Test Type: Conventional Bottom Hole (Reset)
 Tester: Troy Leiker
 Unit No: 55

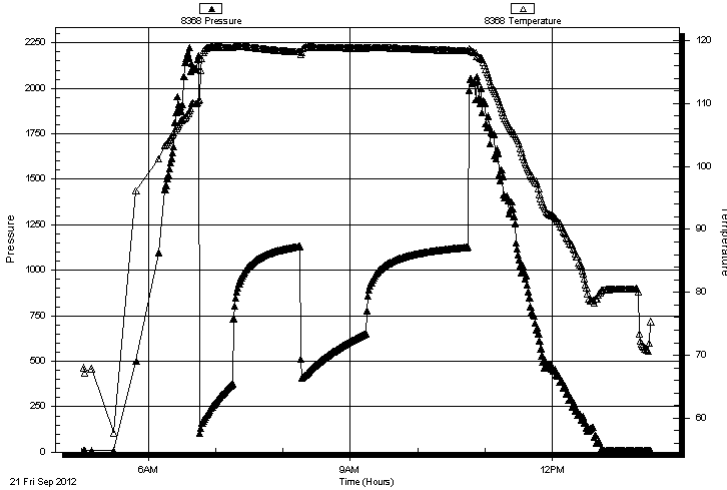
Interval: **4365.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Total Depth: 4153.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2994.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8368 **Inside**
 Press @ Run Depth: psig @ 4366.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.21 End Date: 2012.09.21 Last Calib.: 1899.12.30
 Start Time: 05:02:15 End Time: 13:28:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 3 min.
 IS 60 Weak Blow 1/4" in Bkt.
 FF 60 Strong Blow , Off Bottom in 5 min.
 FS 90 Weak Blow , 1/4" in Bkt..

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1390.00	Salt Water 95%w 5% m	17.06
10.00	Clean Gassy Oil 20%g 80%o	0.14
250.00	Gas in Pipe	3.51

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

Tool Information

Drill Pipe:	Length: 4078.00 ft	Diameter: 3.80 inches	Volume: 57.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4365.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4339.00	
Shut In Tool	5.00			4344.00	
Hydraulic tool	5.00			4349.00	
Jars	5.00			4354.00	
Safety Joint	2.00			4356.00	
Packer	5.00			4361.00	27.00 Bottom Of Top Packer
Packer	4.00			4365.00	
Stubb	1.00			4366.00	
Recorder	0.00	6667	Outside	4366.00	
Recorder	0.00	8368	Inside	4366.00	
Perforations	9.00			4375.00	
Bullnose	5.00			4380.00	15.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49408

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 05:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

2950 ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1390.00	Salt Water 95%w 5%m	17.057
10.00	Clean Gassy Oil 20%g 80%o	0.140
250.00	Gas in Pipe	3.507

Total Length: 1650.00 ft

Total Volume: 20.704 bbl

Num Fluid Samples: 0

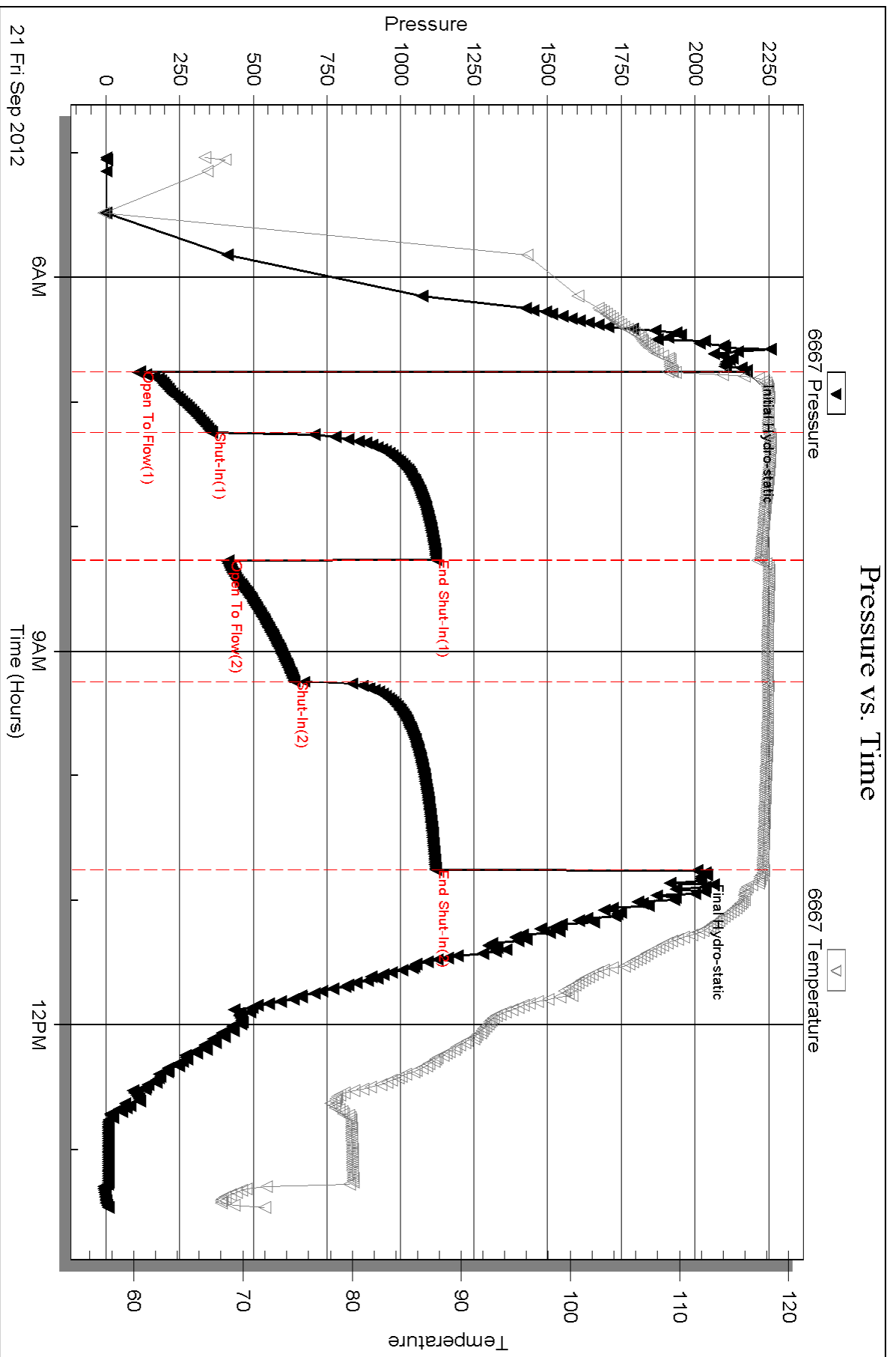
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



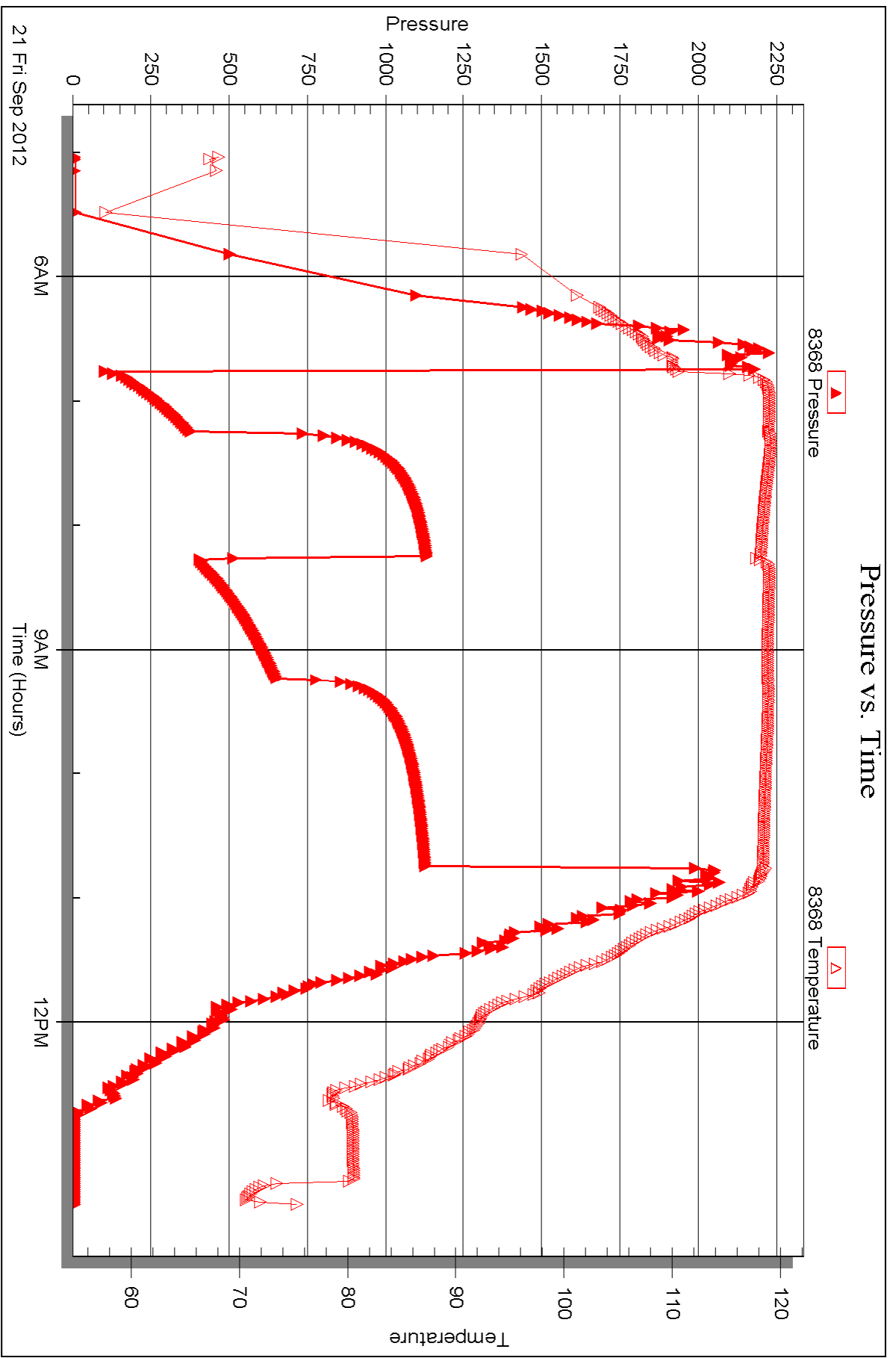
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 49408

Printed: 2012.09.28 @ 08:10:27



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.21 @ 22:10:00

End Date: 2012.09.22 @ 11:56:30

Job Ticket #: 49409 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:08:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

GENERAL INFORMATION:

Formation: **Marmaton B & C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:26:45

Time Test Ended: 11:56:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4382.00 ft (KB) To 4430.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ RunDepth: 796.54 psig @ 4417.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.21

End Date:

2012.09.22

Last Calib.:

2012.09.22

Start Time: 22:10:15

End Time:

11:56:30

Time On Btm:

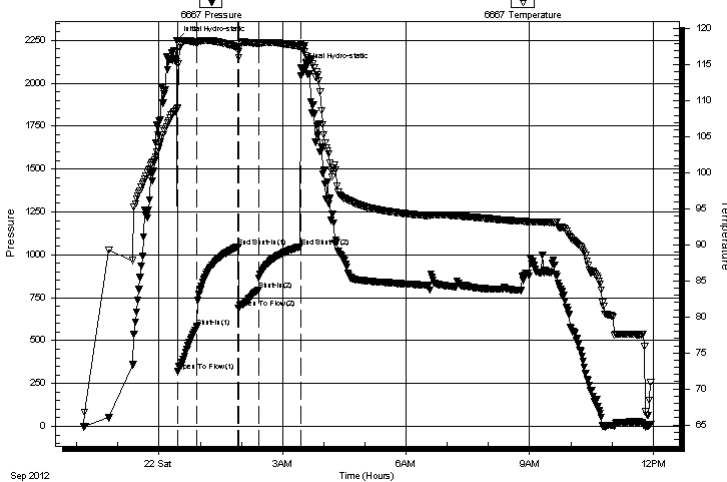
2012.09.22 @ 00:26:15

Time Off Btm:

2012.09.22 @ 03:27:15

TEST COMMENT: IF 30 Strong Blow , Off Bottom in 2 min.
IS 60 Strong Blow Off Bottom After it w as Bled Off
FF 30 Strong Blow , Off Bottom in 2 min. Gas to Surface 20 min.
FS 60 Strong Blow , Off Bottom After it w as Bled Off

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.54	108.91	Initial Hydro-static
1	319.38	109.09	Open To Flow (1)
30	580.73	118.07	Shut-In(1)
89	1047.23	117.45	End Shut-In(1)
90	688.59	116.87	Open To Flow (2)
119	796.54	117.93	Shut-In(2)
180	1047.10	117.55	End Shut-In(2)
181	2089.66	117.48	Final Hydro-static

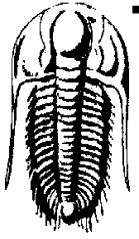
Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Oil 80%o 20%g	0.30
2340.00	Clean Gassy Oil 30%g 70%o	30.93

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc
250 N. Water STE 300
Wichita, KS 67202+1216
ATTN: Jeff Christian

4-21s-34w Finney,KS

Marabelle #1-4

Job Ticket: 49409

DST#: 4

Test Start: 2012.09.21 @ 22:10:00

GENERAL INFORMATION:

Formation: **Marmaton B & C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:26:45

Time Test Ended: 11:56:30

Interval: **4382.00 ft (KB) To 4430.00 ft (KB) (TVD)**

Total Depth: 4430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Reference Elevations: 2994.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press @ Run Depth: psig @ 4417.00 ft (KB)

Start Date: 2012.09.21 End Date: 2012.09.22

Start Time: 22:10:15 End Time: 11:56:30

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

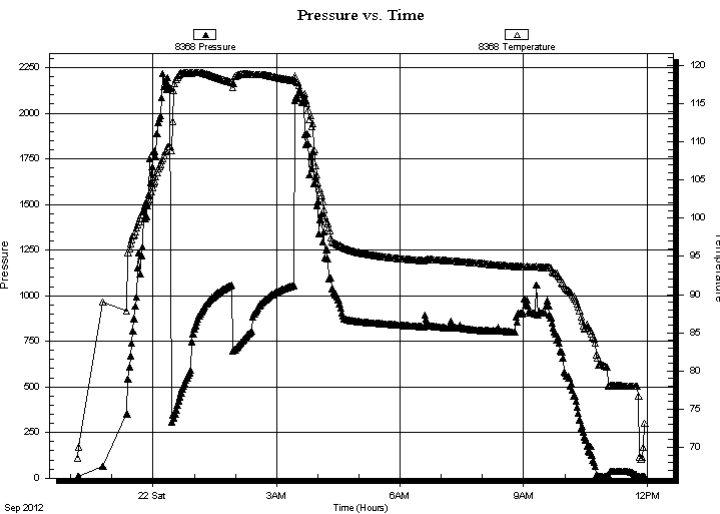
Time Off Btm:

TEST COMMENT: IF 30 Stong Blow , Off Bottom in 2 min.

IS 60 Strong Blow Off Bottom After it w as Bled Off

FF 30 Stong Blow , Off Bottom in 2 min. Gas to Surface 20 min.

FS 60 Strong Blow , Off Bottom After it w as Bled Off



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Oil 80%o 20%m	0.30
2340.00	Clean Gassy Oil 30%g 70%o	30.93

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

Tool Information

Drill Pipe:	Length: 4098.00 ft	Diameter: 3.80 inches	Volume: 57.48 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4382.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Jars	5.00			4371.00	
Safety Joint	2.00			4373.00	
Packer	5.00			4378.00	27.00 Bottom Of Top Packer
Packer	4.00			4382.00	
Stubb	1.00			4383.00	
Perforations	1.00			4384.00	
Change Over Sub	1.00			4385.00	
Drill Pipe	31.00			4416.00	
Change Over Sub	1.00			4417.00	
Recorder	0.00	6667	Outside	4417.00	
Recorder	0.00	8368	Inside	4417.00	
Perforations	8.00			4425.00	
Bullnose	5.00			4430.00	48.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49409

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.09.21 @ 22:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Muddy Oil 80%o 20%m	0.295
2340.00	Clean Gassy Oil 30%g 70%o	30.929

Total Length: 2400.00 ft Total Volume: 31.224 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

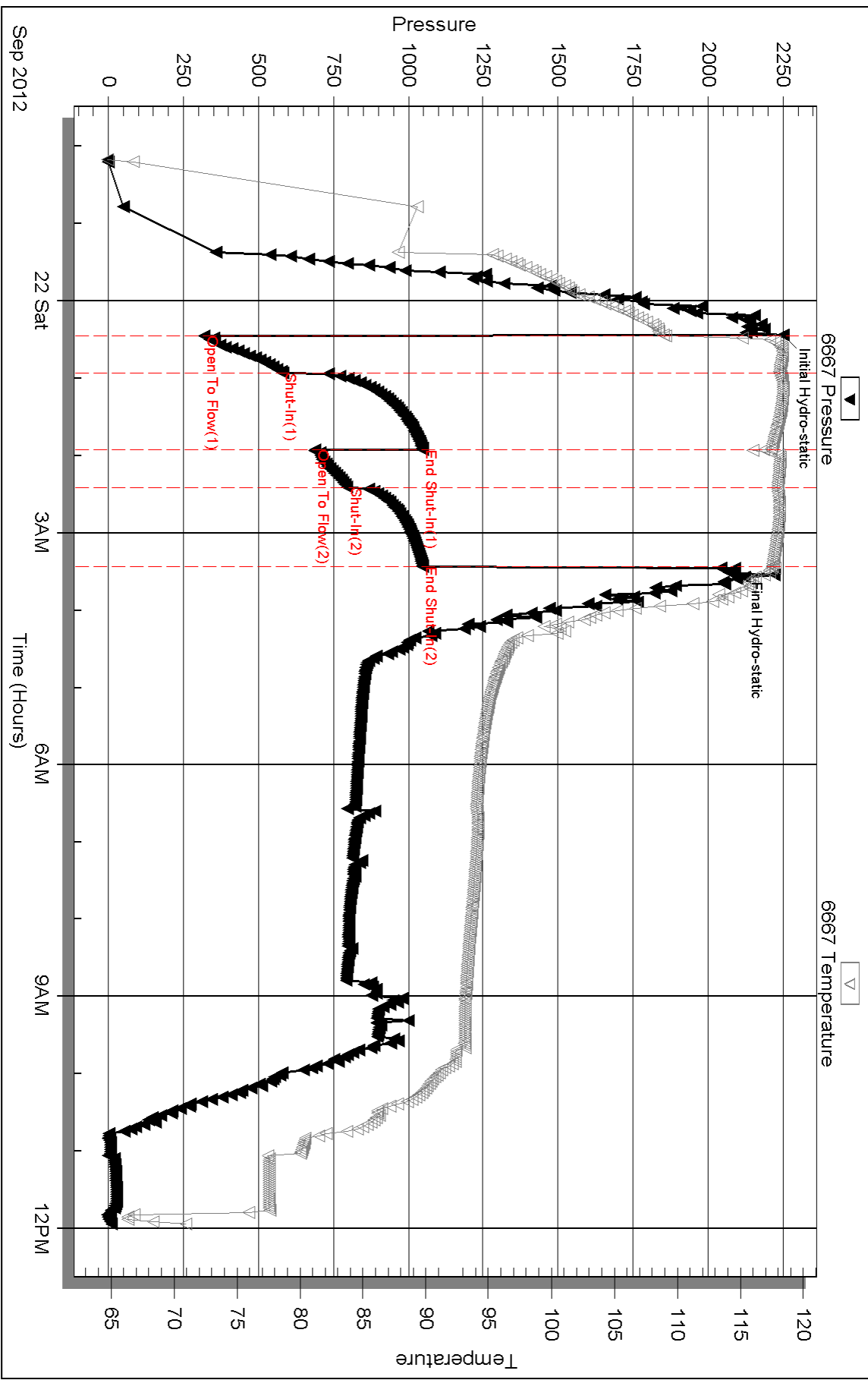
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas To Surface 20min. into Final Opening

Pressure vs. Time



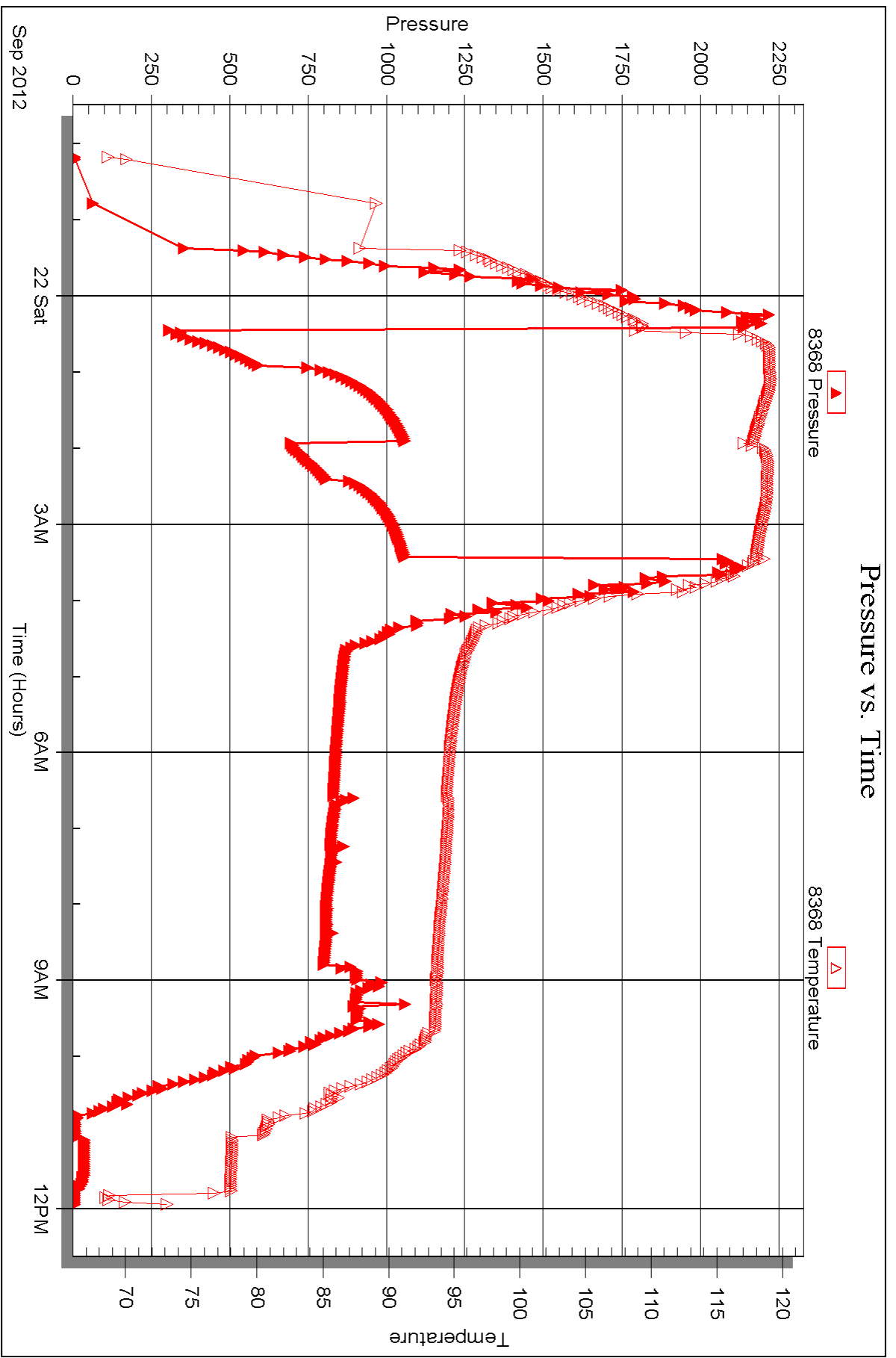
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 49409

Printed: 2012.09.28 @ 08:08:12



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.22 @ 21:52:00

End Date: 2012.09.23 @ 06:16:00

Job Ticket #: 49410 DST #: 5

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

Printed: 2012.09.28 @ 08:06:47

Murfin Drilling Company Inc
4-21s-34w Finney,KS
Marabelle #1-4
DST # 5
Pawnee
2012.09.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:00

Time Test Ended: 06:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4438.00 ft (KB) To 4483.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4483.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 302.38 psig @ 4473.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

2012.09.27

Start Time: 21:52:15

End Time:

06:16:00

Time On Btm:

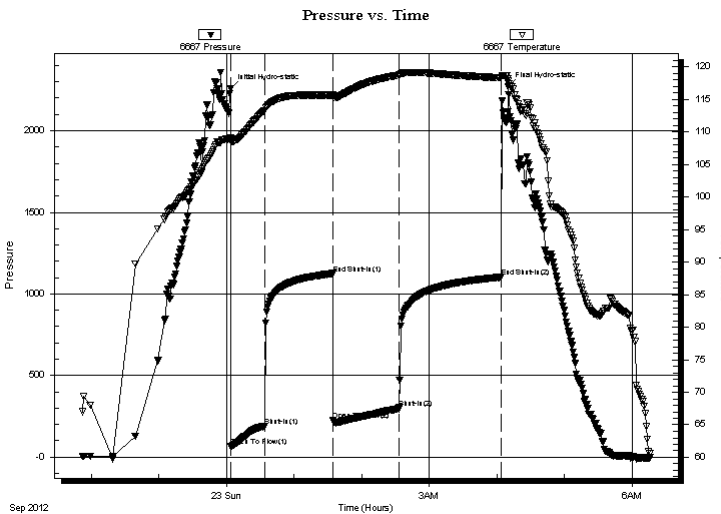
2012.09.23 @ 00:03:45

Time Off Btm:

2012.09.23 @ 04:10:15

TEST COMMENT: IF 30 Fair Blow , Off Bottom in 28 min.
IS 60 No Blow Back
FF 60 Fair Blow , Off Bottom in 45 min.
FS 90 No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.44	109.05	Initial Hydro-static
1	64.35	108.59	Open To Flow (1)
30	188.89	113.32	Shut-In(1)
91	1124.85	115.65	End Shut-In(1)
91	223.43	115.39	Open To Flow (2)
150	302.38	118.74	Shut-In(2)
240	1102.29	118.34	End Shut-In(2)
247	2270.06	117.86	Final Hydro-static

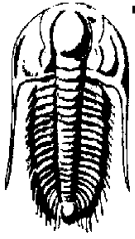
Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Water 50% m 50% w	0.30
500.00	Salt Water 10% m 90% w	5.12

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:00

Time Test Ended: 06:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: 55

Interval: 4438.00 ft (KB) To 4483.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4483.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368 Inside

Press @ RunDepth: psig @ 4473.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.23

Last Calib.:

1899.12.30

Start Time:

21:52:15

End Time:

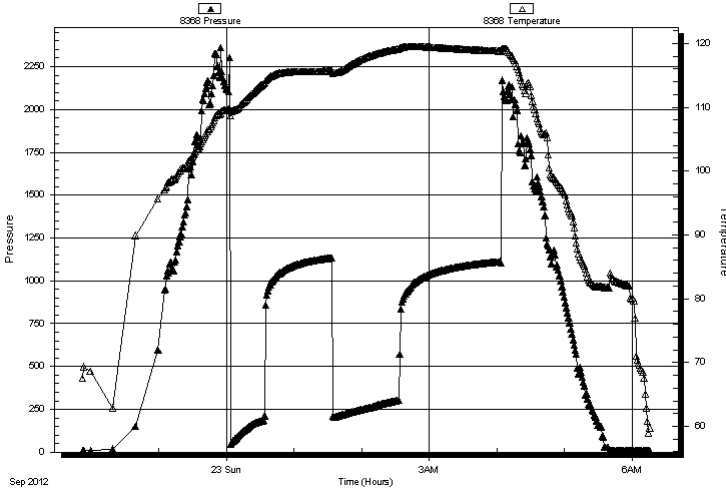
06:15:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Fair Blow , Off Bottom in 28 min.
IS 60 No Blow Back
FF 60 Fair Blow , Off Bottom in 45 min.
FS 90 No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Muddy Water 50%m 50%w	0.30
500.00	Salt Water 10%m 90%w	5.12

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4438.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 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			4412.00	
Shut In Tool	5.00			4417.00	
Hydraulic tool	5.00			4422.00	
Jars	5.00			4427.00	
Safety Joint	2.00			4429.00	
Packer	5.00			4434.00	27.00 Bottom Of Top Packer
Packer	4.00			4438.00	
Stubb	1.00			4439.00	
Perforations	1.00			4440.00	
Change Over Sub	1.00			4441.00	
Drill Pipe	31.00			4472.00	
Change Over Sub	1.00			4473.00	
Recorder	0.00	6667	Outside	4473.00	
Recorder	0.00	8368	Inside	4473.00	
Perforations	5.00			4478.00	
Bullnose	5.00			4483.00	45.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 49410

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.09.22 @ 21:52:00

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:

7000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Muddy Water 50%m 50%w	0.295
500.00	Salt Water 10%m 90%w	5.119

Total Length: 560.00 ft Total Volume: 5.414 bbl

Num Fluid Samples: 0

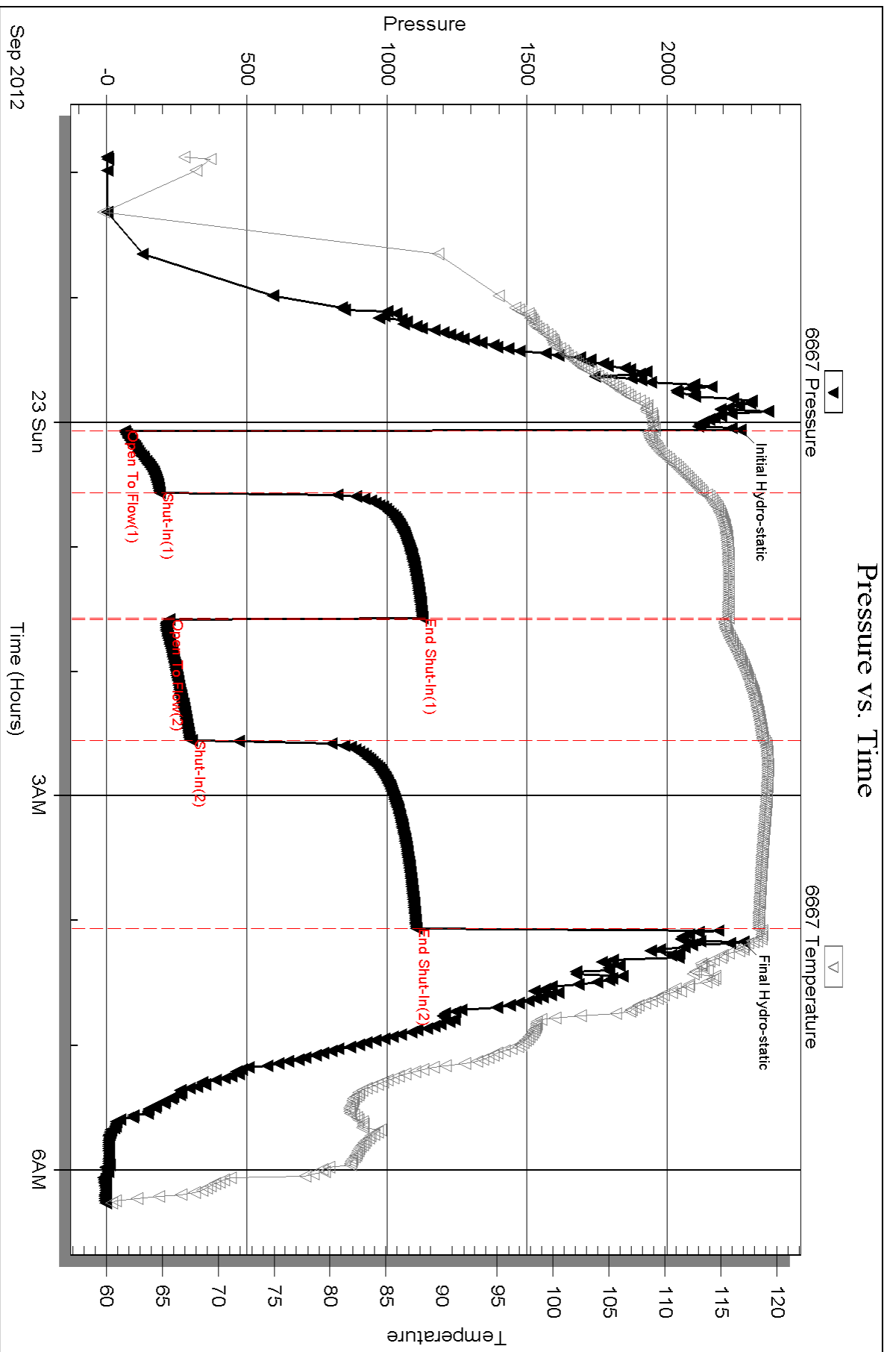
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .1 @ 59deg.= 7000ppm chlorides



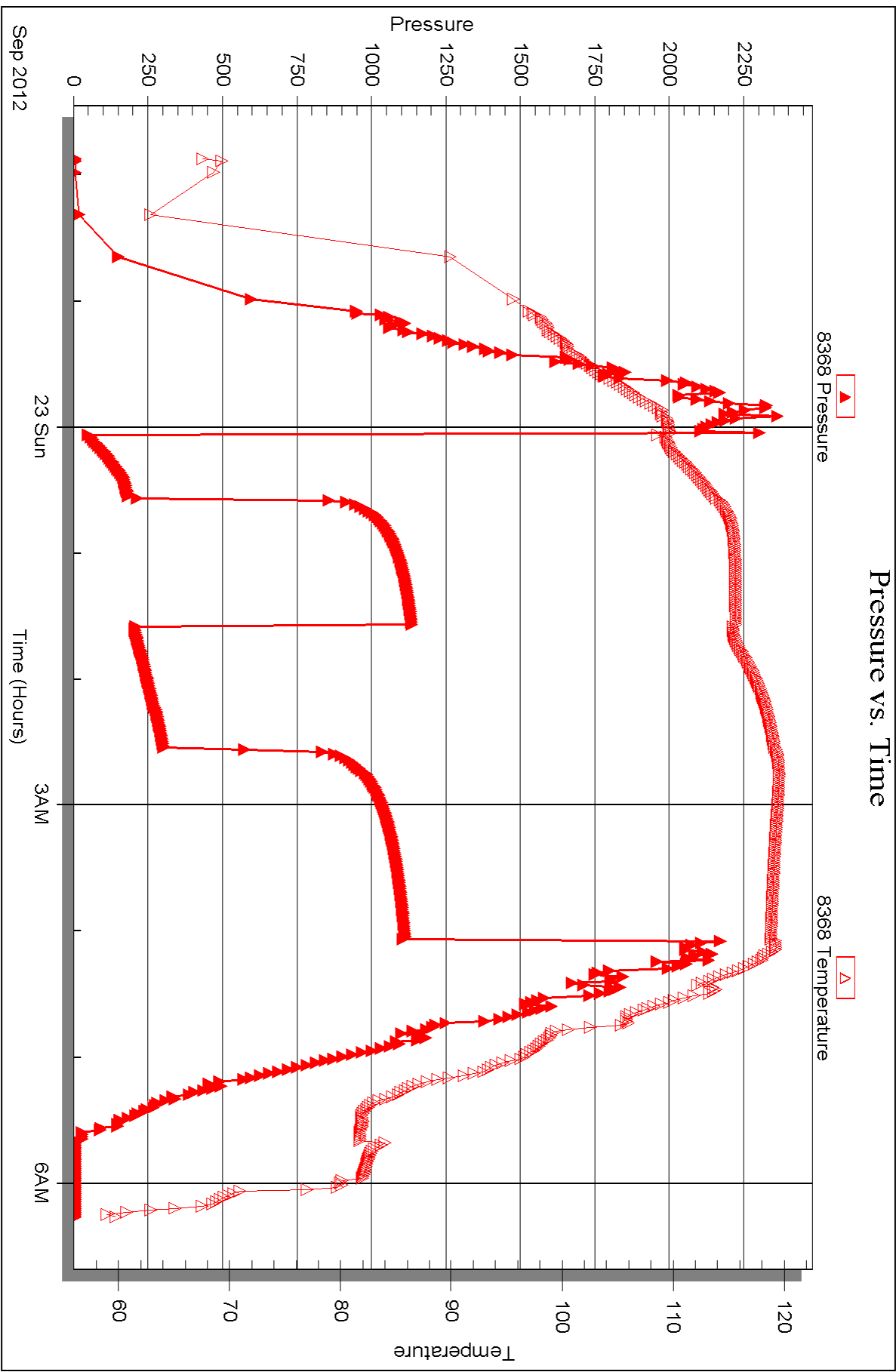
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.23 @ 17:25:56

End Date: 2012.09.24 @ 00:50:26

Job Ticket #: 50157 DST #: 6

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

Printed: 2012.09.28 @ 08:05:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:29:56

Time Test Ended: 00:50:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4509.00 ft (KB) To 4566.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4566.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368 Inside

Press @ Run Depth: 39.13 psig @ 4510.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.23

End Date:

2012.09.24

Last Calib.: 2012.09.24

Start Time: 17:25:56

End Time:

00:36:26

Time On Btm: 2012.09.23 @ 19:28:26

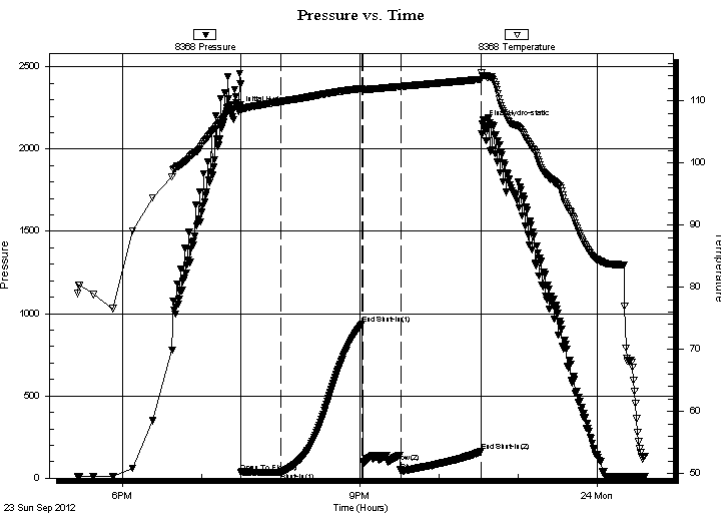
Time Off Btm: 2012.09.23 @ 22:32:56

TEST COMMENT: Weak surface blow

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.74	109.27	Initial Hydro-static
2	36.84	108.49	Open To Flow (1)
32	35.91	109.87	Shut-In(1)
94	938.08	111.97	End Shut-In(1)
94	93.75	111.66	Open To Flow (2)
123	39.13	112.28	Shut-In(2)
184	161.75	113.43	End Shut-In(2)
185	2151.30	114.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc
 250 N. Water STE 300
 Wichita, KS 67202+1216
 ATTN: Jeff Christian

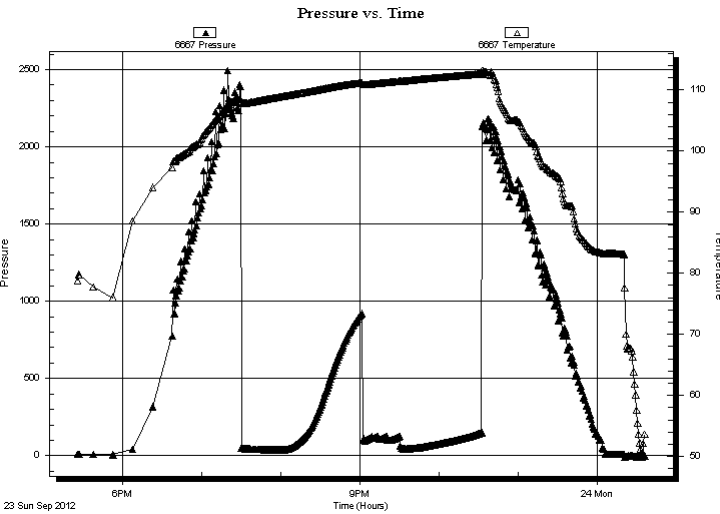
4-21s-34w Finney, KS
Marabelle #1-4
 Job Ticket: 50157 **DST#: 6**
 Test Start: 2012.09.23 @ 17:25:56

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:29:56
 Time Test Ended: 00:50:26
Interval: 4509.00 ft (KB) To 4566.00 ft (KB) (TVD)
 Total Depth: 4566.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2994.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
 Press @ Run Depth: psig @ 4510.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.23 End Date: 2012.09.24 Last Calib.: 2012.09.24
 Start Time: 17:25:50 End Time: 00:36:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak surface blow
 No return
 No blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

Tool Information

Drill Pipe:	Length: 4236.00 ft	Diameter: 3.80 inches	Volume: 59.42 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: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4509.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 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			4483.00	
Shut In Tool	5.00			4488.00	
Hydraulic tool	5.00			4493.00	
Jars	5.00			4498.00	
Safety Joint	2.00			4500.00	
Packer	5.00			4505.00	27.00 Bottom Of Top Packer
Packer	4.00			4509.00	
Stubb	1.00			4510.00	
Recorder	0.00	6667	Outside	4510.00	
Recorder	0.00	8368	Inside	4510.00	
Perforations	17.00			4527.00	
Change Over Sub	1.00			4528.00	
Drill Pipe	32.00			4560.00	
Change Over Sub	1.00			4561.00	
Bullnose	5.00			4566.00	57.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50157

DST#: 6

ATTN: Jeff Christian

Test Start: 2012.09.23 @ 17:25:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

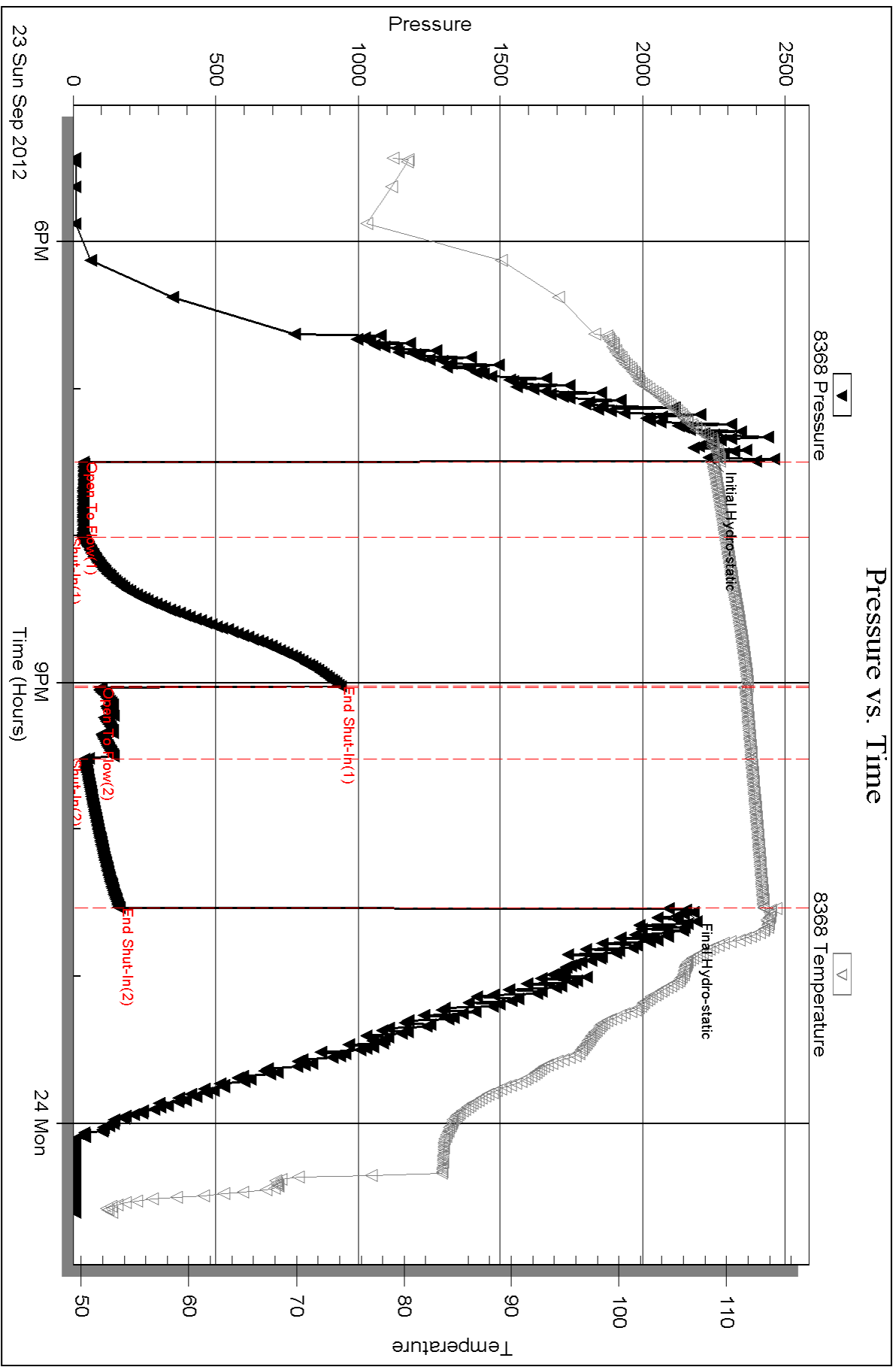
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 50157

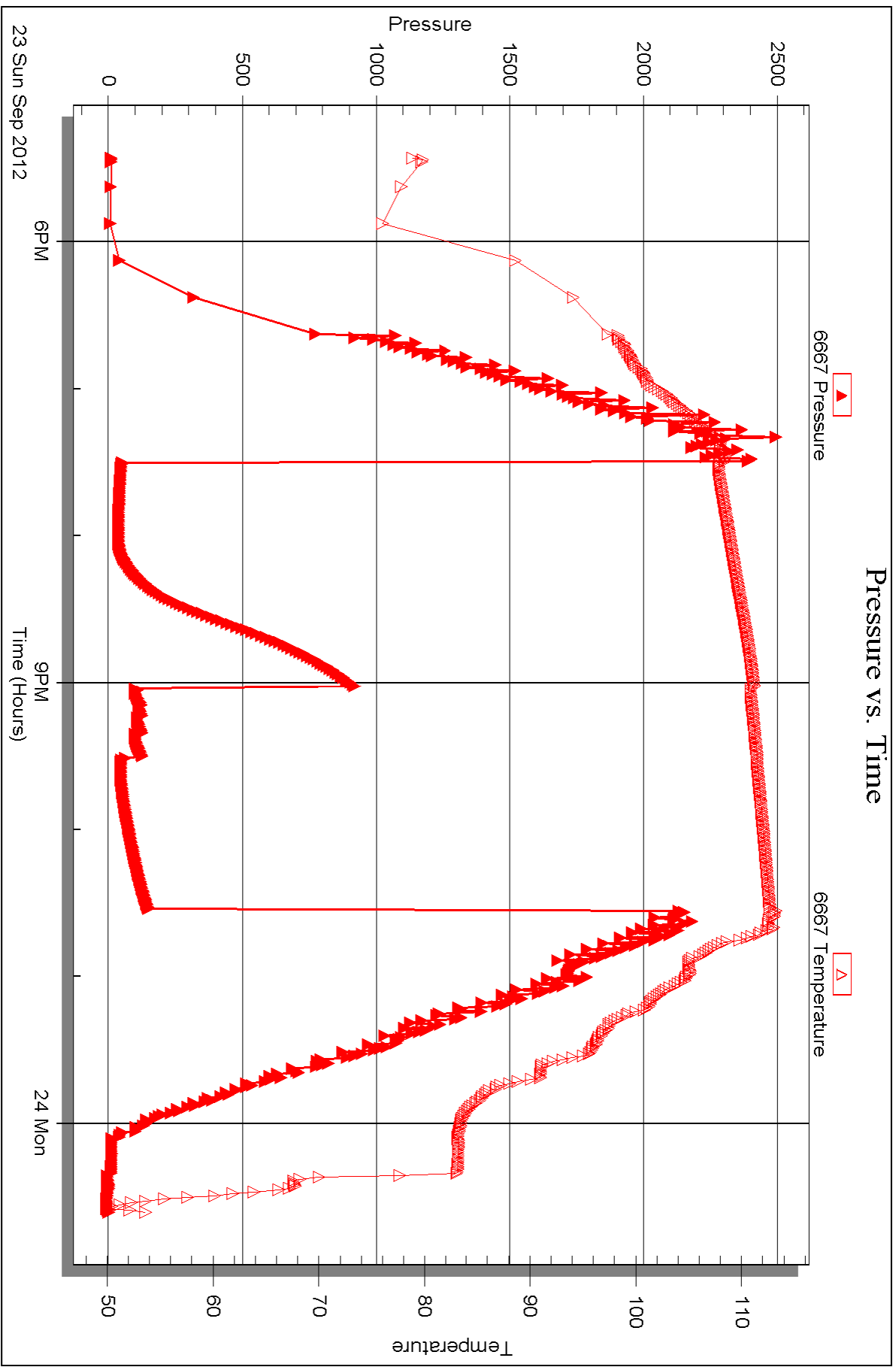
Printed: 2012.09.28 @ 08:05:10

Serial #: 6667

Outside Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N. Water STE 300
Wichita, KS 67202+1216

ATTN: Jeff Christian

Marabelle #1-4

4-21s-34w Finney,KS

Start Date: 2012.09.24 @ 19:16:05

End Date: 2012.09.25 @ 02:18:35

Job Ticket #: 50158 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.28 @ 08:03:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50158

DST#: 7

ATTN: Jeff Christian

Test Start: 2012.09.24 @ 19:16:05

GENERAL INFORMATION:

Formation: **Atoka- Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:05

Time Test Ended: 02:18:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4666.00 ft (KB) To 4740.00 ft (KB) (TVD)

Reference Elevations: 2994.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

2983.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press @ Run Depth: 60.90 psig @ 4667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.24

End Date:

2012.09.25

Last Calib.:

2012.09.25

Start Time: 19:16:05

End Time:

02:01:35

Time On Btm:

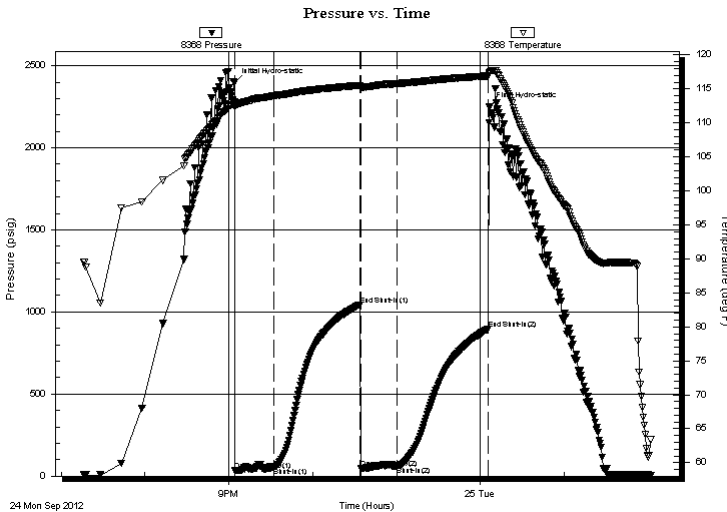
2012.09.24 @ 21:03:50

Time Off Btm:

2012.09.25 @ 00:06:20

TEST COMMENT: Surface blow
No return
Weak surface blow
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2397.27	113.07	Initial Hydro-static
1	33.72	112.33	Open To Flow (1)
28	50.61	113.99	Shut-In(1)
90	1044.20	115.54	End Shut-In(1)
91	46.15	115.24	Open To Flow (2)
117	60.90	115.76	Shut-In(2)
182	897.35	116.92	End Shut-In(2)
183	2249.99	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud /oil spots on top 100%m	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc
 250 N. Water STE 300
 Wichita, KS 67202+1216
 ATTN: Jeff Christian

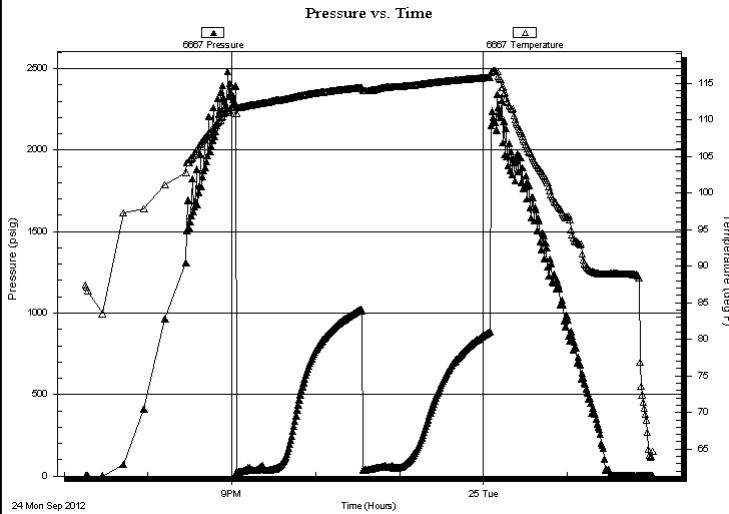
4-21s-34w Finney,KS
Marabelle #1-4
 Job Ticket: 50158 **DST#: 7**
 Test Start: 2012.09.24 @ 19:16:05

GENERAL INFORMATION:

Formation: **Atoka- Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:04:05
 Time Test Ended: 02:18:35
Interval: 4666.00 ft (KB) To 4740.00 ft (KB) (TVD)
 Total Depth: 4740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2994.00 ft (KB)
 2983.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
 Press @ RunDepth: psig @ 4667.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.24 End Date: 2012.09.25 Last Calib.: 2012.09.25
 Start Time: 19:15:23 End Time: 02:00:53 Time On Btm:
 Time Off Btm:

TEST COMMENT: Surface blow
 No return
 Weak surface blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud /oil spots on top 100% <i>m</i>	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50158

DST#: 7

ATTN: Jeff Christian

Test Start: 2012.09.24 @ 19:16:05

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.80 inches	Volume: 61.58 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: 268.00 ft	Diameter: 2.25 inches	Volume: 1.32 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4666.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.00 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			4640.00	
Shut In Tool	5.00			4645.00	
Hydraulic tool	5.00			4650.00	
Jars	5.00			4655.00	
Safety Joint	2.00			4657.00	
Packer	5.00			4662.00	27.00 Bottom Of Top Packer
Packer	4.00			4666.00	
Stubb	1.00			4667.00	
Recorder	0.00	6667	Outside	4667.00	
Recorder	0.00	8368	Inside	4667.00	
Perforations	34.00			4701.00	
Change Over Sub	1.00			4702.00	
Drill Pipe	32.00			4734.00	
Change Over Sub	1.00			4735.00	
Bullnose	5.00			4740.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

4-21s-34w Finney,KS

250 N. Water STE 300
Wichita, KS 67202+1216

Marabelle #1-4

Job Ticket: 50158

DST#: 7

ATTN: Jeff Christian

Test Start: 2012.09.24 @ 19:16:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud /oil spots on top 100%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

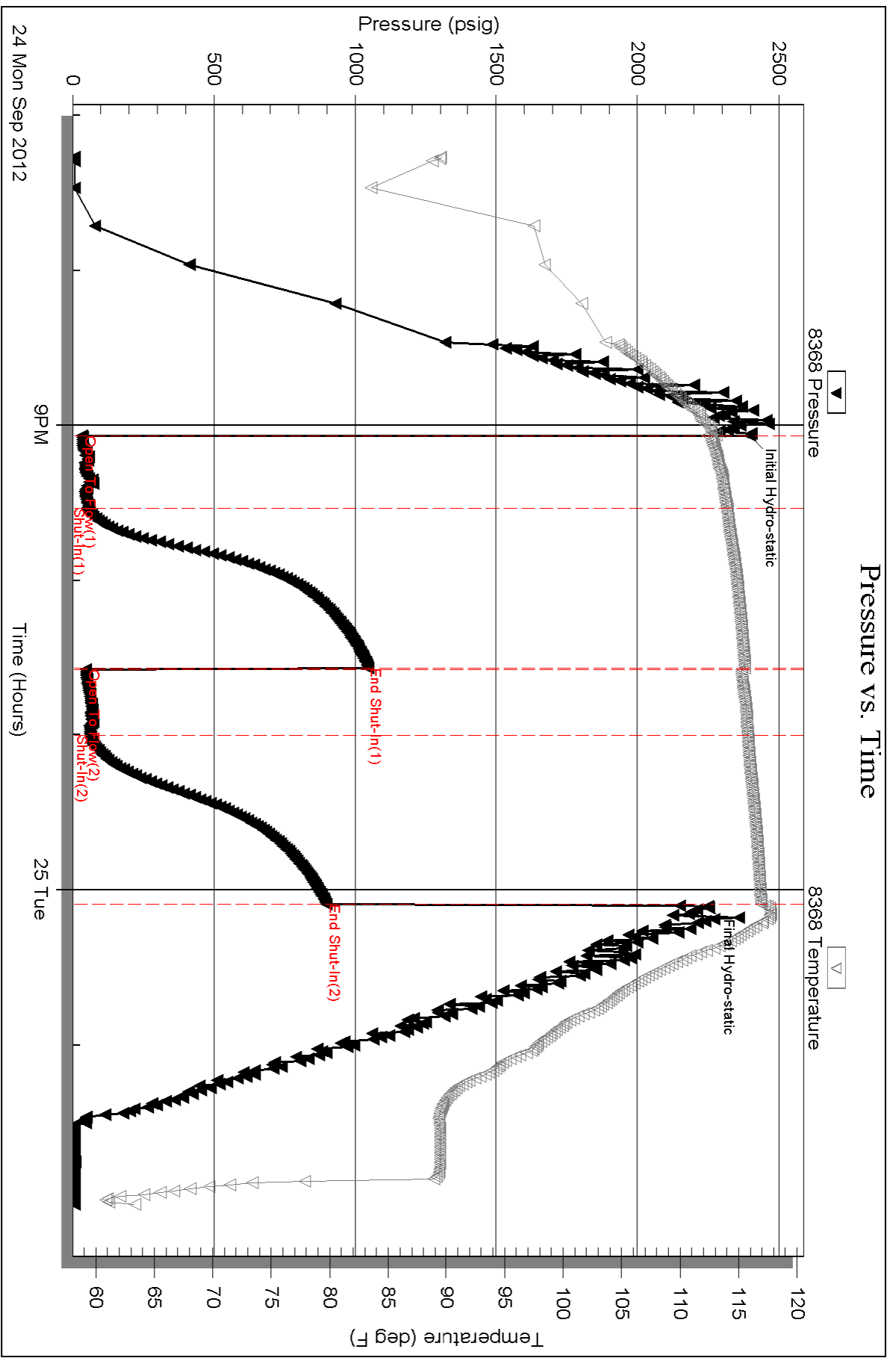
Serial #: 8368

Inside

Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 50158

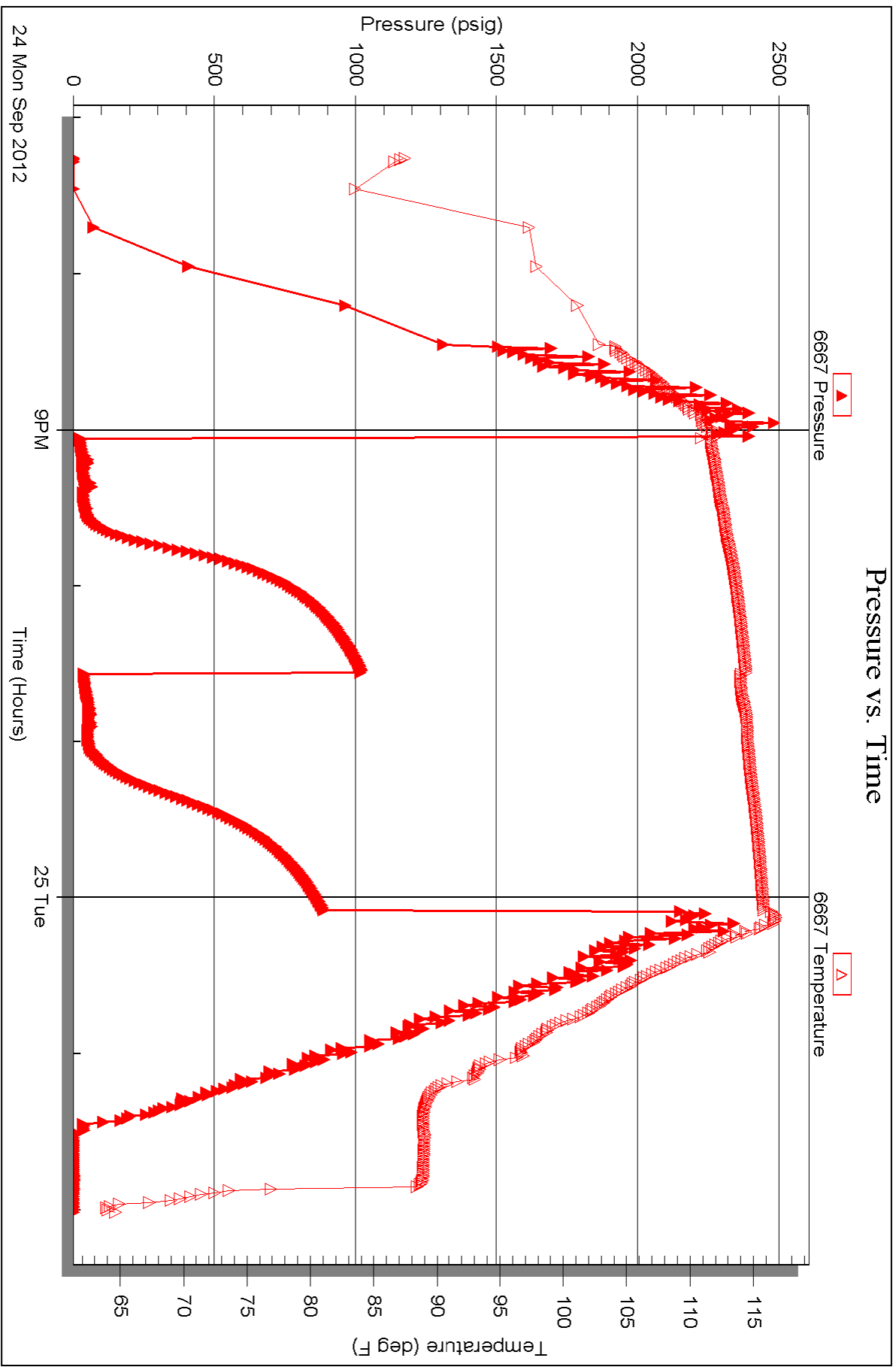
Printed: 2012.09.28 @ 08:03:47

Serial #: 6667

Outside Murfin Drilling Company Inc

Marabelle #1-4

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49406

4/10

Well Name & No. Marabelle #1-4 Test No. 1 Date 9-19-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202 +1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg # 21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State KS.

Interval Tested 4120' - 4153' Zone Tested LKC I zone
 Anchor Length 33' Drill Pipe Run 3832 Mud Wt. 9.3
 Top Packer Depth 4115 Drill Collars Run 268 Vis 60
 Bottom Packer Depth 4120 Wt. Pipe Run 0 WL 7.2
 Total Depth 4153 Chlorides 2,600 ppm System LCM 6
 Blow Description IF - Strong Blow, off bottom in 22 min.
IS - no Blow Back
FF - Strong Blow, off bottom in 27 min.
FS - no Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>clean oil</u>	<u>100</u>			
<u>124'</u>	<u>Muddy Water with oil Trace</u>	<u>T</u>	<u>60</u>	<u>40</u>	
<u>558'</u>	<u>Salt Water with oil Trace</u>	<u>T</u>	<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 683' BHT 114° Gravity _____ API RW 1.12 @ 87° F Chlorides 4600 ppm

(A) Initial Hydrostatic <u>2125</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:30 Am</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:02</u>
(C) First Final Flow <u>174</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:55 pm</u>
(D) Initial Shut-In <u>1063</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>5:55 pm</u>
(E) Second Initial Flow <u>188</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>315</u>	<input checked="" type="checkbox"/> Mileage <u>77.50</u> <u>25x2 - Scott City</u>	Comments _____
(G) Final Shut-In <u>1045</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1920</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>40</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1652.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1652.50</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49407

4/10

Well Name & No. Marabelle #1-4 Test No. 2 Date 9-20-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water St # 300 Wichita, Ks. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg. #21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State Ks.

Interval Tested 4187 - 4205 Zone Tested Lansing KC K zone
 Anchor Length 18' Drill Pipe Run 3925 Mud Wt. 9.3
 Top Packer Depth 4182 Drill Collars Run 268 Vis 60
 Bottom Packer Depth 4187 Wt. Pipe Run 0 WL 7.2
 Total Depth 4205 Chlorides 2,600 ppm System LCM 6

Blow Description IF - Weak Blow, Increased slowly to 2" in BKT.
IS - NO Blow Back
FF - Weak Blow, Increased slowly to 2 1/2" in BKT.
FS - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>64'</u>	<u>Clean Gassy oil</u>	<u>50</u>	<u>50</u>		
<u>124'</u>	<u>Clean Gassy oil</u>	<u>30</u>	<u>70</u>		
<u>62'</u>	<u>HOCM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250' BHT 112° Gravity Less than 18 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic	<u>2122</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>3:20 AM</u>
(B) First Initial Flow	<u>35</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>3:53 AM</u>
(C) First Final Flow	<u>58</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>5:50 AM</u>
(D) Initial Shut-In	<u>1109</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>9:50 AM</u>
(E) Second Initial Flow	<u>70</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>12:07 PM</u>
(F) Second Final Flow	<u>116</u>	<input checked="" type="checkbox"/> Mileage	<u>25x2 Scott City</u> 77.50	Comments	
(G) Final Shut-In	<u>1111</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2146</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

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

Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1652.50

MP/DST Disc't

Approved By _____ Our Representative Jeff Christian

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49408

Well Name & No. Marabelle #1-4 Test No. 3 Date 9-21-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg #21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State KS.

Interval Tested 4365-4380 Zone Tested Marmaton A
 Anchor Length 15' Drill Pipe Run 4078 Mud Wt. 9.4
 Top Packer Depth 4360 Drill Collars Run 268 Vis 74
 Bottom Packer Depth 4365 Wt. Pipe Run 0 WL 9.6
 Total Depth 4380 Chlorides 4,000 ppm System LCM 6

Blow Description IF - Strong Blow, OFF Bottom in 3 min.
IS - Weak Blow, 1/4" in BKT.
FF - Strong Blow, OFF Bottom in 5 min
FS - Weak Blow, 1/4" in BKT.

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Gas In Pipe</u>	<u>100</u>			
<u>10'</u>	<u>clean oil</u>	<u>20</u>	<u>80</u>		
<u>1390'</u>	<u>Soft Water</u>			<u>95</u>	<u>5</u>

Rec Total _____ BHT 117° Gravity 34 API RW 1.5 @ 96 °F Chlorides 2950 ppm

(A) Initial Hydrostatic <u>2176</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:15 Am</u>
(B) First Initial Flow <u>115</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:02 Am</u>
(C) First Final Flow <u>359</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:45 Am</u>
(D) Initial Shut-In <u>1119</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>10:45 Am</u>
(E) Second Initial Flow <u>416</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:28 pm</u>
(F) Second Final Flow <u>638</u>	<input checked="" type="checkbox"/> Mileage <u>25 X 2 Scott City</u> 77.50	Comments _____
(G) Final Shut-In <u>1117</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2007</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1652.50

Sub Total 0
 Total 1652.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49409

4/10

Well Name & No. Marabelle #1-4 Test No. 4 Date 9-21-12
 Company Murfin Drlg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drlg #21
 Location: Sec. 4 Twp. 21 S Rge. 34 U Co. Finney State KS.

Interval Tested 4382 - 4430 Zone Tested Marmaton Bdc
 Anchor Length 48' Drill Pipe Run 4129 Mud Wt. 9.3
 Top Packer Depth 4377 Drill Collars Run 268 Vis 60
 Bottom Packer Depth 4382 Wt. Pipe Run 0 WL 7.2
 Total Depth 4430 Chlorides 3100 ppm System LCM 5

Blow Description IF - Strong Blow, OFF Bottom in 2 min.
IS - Strong Blow, OFF Bottom after Bled off.
FF - Strong Blow, OFF Bottom in 2 min. Gas To Surface in 20 min.
FS - Strong Blow, OFF Bottom after Bled off.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2340'</u>	<u>clean Gassy oil</u>	<u>30</u>	<u>70</u>		
<u>60'</u>	<u>Muddy oil</u>	<u>10</u>	<u>80</u>		<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2400' BHT 117° Gravity 29 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 2249 Test 1250 T-On Location 9:15 pm
 (B) First Initial Flow 319 Jars 250 T-Started 10:10 pm
 (C) First Final Flow 580 Safety Joint 75 T-Open 12:25 Am
 (D) Initial Shut-In 1047 Circ Sub opened 50 T-Pulled 3:25 Am
 (E) Second Initial Flow 688 Hourly Standby 6 1/2 HRS over 10 ^{4.75hrs 475} T-Out 11:56 Am
 (F) Second Final Flow 796 Mileage 25 x 2 Scottcity 77.50 Comments Gas to Surface
 (G) Final Shut-In 1047 Sampler 20 min. Into 2nd
 (H) Final Hydrostatic 2089 Straddle opening.
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 0
 Total 2177.50
 MP/DST Disc't
 Sub Total 2177.50

Approved By _____ Our Representative Jeff Christian

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49410

4/10

Well Name & No. Marabelle #1-4 Test No. 5 Date 9-22-12
 Company Murfin Drilg. Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water STE 300 Wichita, KS. 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Murfin Drilg #21
 Location: Sec. 4 Twp. 21 S Rge. 34 W Co. Finney State Ks.

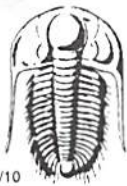
Interval Tested 4438-4483 Zone Tested Pawnee
 Anchor Length 45' Drill Pipe Run 4203 Mud Wt. 9.1
 Top Packer Depth 4433 Drill Collars Run 268 Vis 56
 Bottom Packer Depth 4438 Wt. Pipe Run 0 WL 7.2
 Total Depth 4483 Chlorides 3,400 ppm System LCM 5
 Blow Description IF - Fair Blow, OFF Bottom in 28 min.
IS - NO Blow Back
FF - Fair Blow, OFF Bottom in 45 min.
FS - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>500'</u>	<u>Salt Water</u>		<u>90</u>	<u>10</u>	
<u>60'</u>	<u>Muddy Water</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 500' BHT 118" Gravity _____ API RW .1 @ 59 °F Chlorides 7,000 ppm

(A) Initial Hydrostatic <u>2260</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>8:45 pm</u>
(B) First Initial Flow <u>64</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>9:52 pm</u>
(C) First Final Flow <u>188</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:05 Am</u>
(D) Initial Shut-In <u>1124</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:05 Am</u>
(E) Second Initial Flow <u>223</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:16 Am</u>
(F) Second Final Flow <u>302</u>	<input checked="" type="checkbox"/> Mileage <u>25x2 Scottcity</u> 77.50	Comments _____
(G) Final Shut-In <u>1102</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2270</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</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>60</u>	<input type="checkbox"/> Day Standby	Total <u>1652.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1652.50</u>	

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50157

4/10

Well Name & No. Marabelle # 1-4 Test No. #6 Date 9/23/12
 Company Murford Drilling Company Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water Ste #300 Wichita, KS 67202-1216
 Co. Rep / Geo. Jeff Christ Rig Murford #21
 Location: Sec. 4 Twp. 21S Rge. 34W Co. Finney State KS

Interval Tested 4509 4566 Zone Tested Cherokee
 Anchor Length 57 Drill Pipe Run 4236' Mud Wt. 9.2
 Top Packer Depth 4504 Drill Collars Run 268' Vis 59
 Bottom Packer Depth 4509 Wt. Pipe Run --- WL 8.8
 Total Depth 4366 Chlorides 4000 ppm System LCM #10

Blow Description Weak surface blow
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3' BHT 114° Gravity --- API RW --- @ ---° F Chlorides --- ppm

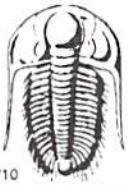
(A) Initial Hydrostatic 2235 Test 1250 T-On Location 16:45
 (B) First Initial Flow 36 Jars 250 T-Started 17:25
 (C) First Final Flow 35 Safety Joint 75 T-Open 19:30
 (D) Initial Shut-In 938 Circ Sub N/C T-Pulled 22:30
 (E) Second Initial Flow 93 Hourly Standby T-Out 00:50
 (F) Second Final Flow 39 Mileage 50 RT 77.50 Comments _____
 (G) Final Shut-In 161 Sampler _____
 (H) Final Hydrostatic 2151 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 0
 Total 1652.50
 MP/DST Disc't _____

Approved By Jeff Christ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50158**

4/10

Well Name & No. Marabelle # 1-A Test No. # 7 Date 9/24/12
 Company Mustard Drilling Company Inc. Elevation 2994 KB 2983 GL
 Address 250 N. Water St #300 Wichita, Ks 67202-1216
 Co. Rep / Geo. Jeff Christian Rig Mustard #21
 Location: Sec. 4 Twp. 21S Rge. 34W Co. Finnery State Ks

Interval Tested 4666 4740 Zone Tested Atoka - Morrow
 Anchor Length 74 Drill Pipe Run 4390' Mud Wt. 9.3
 Top Packer Depth 4666 Drill Collars Run 268' Vis 60
 Bottom Packer Depth 4666 Wt. Pipe Run --- WL 8.0
 Total Depth 4740 Chlorides 4500 ppm System LCM #60

Blow Description Surface blow
No return
Weak surface blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>Mud / oil spots on top</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 118° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2397</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>18:45</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>19:15</u>
(C) First Final Flow <u>50</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>21:00</u>
(D) Initial Shut-In <u>1044</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:00</u>
(E) Second Initial Flow <u>46</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:18</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>50RT</u> 77.50	Comments
(G) Final Shut-In <u>897</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2249</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30 Shale Packer
 Initial Shut-In 60 Extra Packer
 Final Flow 30 Extra Recorder
 Final Shut-In 60 Day Standby
 Accessibility
 Sub Total 1652.50 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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acct.
Prod-Litt

INVOICE

PO Box 93999
Southlake, TX 76092

PROD COPY

Invoice Number: 132755
Invoice Date: Sep 15, 2012
Page: 1

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



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Marabelle# 1-4	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 15, 2012	10/15/12

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	17.90	2,953.50
6.00	MAT	Chloride	64.00	384.00
173.25	SER	Cubic Feet	2.48	429.66
527.00	SER	TOn mlles	2.60	1,370.20
1.00	SER	Surface	1,512.25	1,512.25
68.00	SER	Heavy Vehicle Mileage	7.70	523.60
1.00	SER	Manifold Head Rental	275.00	275.00
68.00	SER	Light Vehicle Mileage	4.40	299.20
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	DJ Gray		

Account	Line	W	No.	Amount	Description
ID203	3.		5036.0001	5052.04	Cement S. Gg. #1-4

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

\$ 2944.01

ONLY IF PAID ON OR BEFORE

Oct 10, 2012

Subtotal	7,747.41
Sales Tax	248.64
Total Invoice Amount	7,996.05
Payment/Credit Applied	
TOTAL	7,996.05

(2944.01)

5052.04

ALLIED OIL & GAS SERVICES, LLC 056743

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Dakley

DATE <i>9-15-12</i>	SEC. <i>4</i>	TWP. <i>21S</i>	RANGE <i>34W</i>	CALLED OUT	ON LOCATION	JOB START <i>8:00am</i>	JOB FINISH <i>8:30pm</i>
LEASE <i>marabelle</i>	WELL# <i>1-4</i>	LOCATION <i>Friend 8w 34S</i>		COUNTY <i>Finney</i>	STATE <i>KS</i>		
OLD OR <u>NEW</u> (Circle one)		<i>Winto</i>					

CONTRACTOR <i>marfin 21</i>	OWNER <i>same</i>
TYPE OF JOB <i>surface</i>	
HOLE SIZE <i>12 1/4</i>	T.D. <i>230'</i>
CASING SIZE <i>8 7/8</i>	DEPTH <i>230'</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>15</i>	
PERFS.	
DISPLACEMENT <i>13,69006</i>	

CEMENT	
AMOUNT ORDERED <i>165 sks com</i>	
<i>3%cc</i>	
COMMON <i>165 sks</i>	@ <i>12.90 2145.50</i>
POZMIX	@
GEL	@
CHLORIDE <i>6 sks</i>	@ <i>64.00 384.00</i>
ASC	@

EQUIPMENT

PUMP TRUCK CEMENTER <i>Andrea Jorgensen</i>
<i>431</i> HELPER <i>Dane Ketzliff</i>
BULK TRUCK
<i>340</i> DRIVER <i>D. J. Gray</i>
BULK TRUCK
DRIVER

HANDLING <i>123.25 cu/ft</i>	@ <i>3.48</i>	<i>429.66</i>
MILEAGE <i>2.60 to 7.25 mile</i>	<i>2.25 to 7.25</i>	<i>1370.20</i>
		TOTAL <i>5137.36</i>

REMARKS:

Cement did circulate

Thank you

SERVICE

DEPTH OF JOB <i>230'</i>		
PUMP TRUCK CHARGE	<i>1512.25</i>	
EXTRA FOOTAGE	@	
MILEAGE <i>6.8 m. 2.25</i>	@ <i>7.70</i>	<i>523.60</i>
MANIFOLD <i>head</i>	@	<i>225.00</i>
<i>light vehicle</i>	@ <i>4.40</i>	<i>299.20</i>
	@	

TOTAL *2610.05*

CHARGE TO: *marfin*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

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 *Juan Tinoco*

SIGNATURE *Juan Tinoco*

SALES TAX (If Any) <i>248.44</i>	TOTAL
TOTAL CHARGES <i>7,747.41</i>	
DISCOUNT _____	IF PAID IN 30 DAYS

3870

2944.01



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



Invoice

DATE	INVOICE #
9/26/2012	23415

BILL TO
Murfin Drilling Company, Inc. 3490 West Jones Avenue Garden City, KS 67846

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-4	Marabelle	Finney	Murfin Drilling Ri...	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
579D	Pump Charge - Two-Stage - 4875 Feet				1	Job	1,850.00	1,850.00
402-5	5 1/2" Centralizer				10	Each	70.00	700.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
408-5	5 1/2" D.V. Tool & Plug Set				1	Each	3,000.00	3,000.00T
411-5	5 1/2" Recipo Scratcher				16	Each	45.00	720.00T
417-5	5 1/2" D.V. Latch Down Plug & Baffle				1	Each	200.00	200.00T
221	Liquid KCL (Clayfix)				6	Gallon(s)	25.00	150.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
276	Flocele				117	Lb(s)	2.00	234.00T
283	Salt				1,150	Lb(s)	0.20	230.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
290	D-Air				5	Gallon(s)	35.00	175.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
330	Swift Multi-Density Standard (MIDCON II)				240	Sacks	16.50	3,960.00T
581D	Service Charge Cement				465	Sacks	2.00	930.00
583D	Drayage				1,903.08	Ton Miles	1.00	1,903.08
Subtotal								20,654.58
Sales Tax Finney County							7.45%	1,154.12
USED FOR <u>IC 103</u>								
APPROVED <u>[Signature]</u>								
We Appreciate Your Business!						Total	\$21,808.70	



TICKET No 23415

PAGE 1 OF 2

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

SERVICE LOCATION: NESS CITY, K.S.
 WELLPROJECT NO. MARABELLE 14
 COUNTY/PARISH: FINNEY
 STATE: KS
 CITY: GARDEN CITY, KS
 DATE: 21 Sep 12
 OWNER: [blank]

TICKET TYPE: SERVICE
 CONTRACTOR: MURKIN DRILLING RIG # 21
 RIG NAME/NO.: FINNEY
 SHIPPED VIA: [blank]
 DELIVERED TO: [blank]
 ORDER NO.: [blank]

WELL TYPE: D1L
 WELL CATEGORY: DEVELOPMENT
 JOB PURPOSE: 5' 2' LONG STRING
 WELL PERMIT NO.: [blank]
 WELL LOCATION: N To Co. Line 10w 15, 15w

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.		
575					MILEAGE # 110	80	mil		60	4800
579					Rump CHARGE	1850	ft		1850	1850
402					CENTRALIZERS	70			70	700
403					CEMENT BASKETS	250			250	500
407					JOSEBY FLUAT SHADE W/AUTO FILL	350			350	350
408					D V TOOL & PLUG SET	1EA			1EA	3000
411					RECIPRO SCRATERS	45			45	720
417					DV LATCH DOWN PLUG & Baffle	1EA			200	200
221					LIQUID KEL	10 gal			25	150
280					FLD NECK 21	500 gal			25	1250

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: 21 Sep 12
 TIME SIGNED: 1515
 A.M.
 P.M.

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

SURETY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	TOTAL
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	21,808.70
OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	11,454.58
OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	20,654.58
OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	1154.12
OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	70.45
OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	70.45

SWIFT OPERATOR: [Signature]
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: [Signature]
 APPROVAL: [Signature]
 The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!



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

TICKET CONTINUATION

TICKET No. 23415

CUSTOMER MURKIN DRILLING

WELL MARABELLE 1-4

DATE 20 Sep 12

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UNIT PRICE	AMOUNT
		LOC	ACCT	DE			U/M	U/M		
276						FLOCELE	117	lbs	2.00	234.00
283						SALT	1150	lbs	2.00	230.00
284						VALSEAN	115x		35.00	385.00
285						CFR-1	150	lbs	4.00	600.00
290						D-AIR	5	gal	35.00	175.00
325						STANDARD CEMENT EA-2	225	sk	13.50	3037.50
330						SWIFT MULT DENSITY	240	sk	16.50	3960.00
581						SERVICE CHARGE	465	sk	2.00	930.00
583						MILEAGE CHARGE	475	mi	1.00	475.00
						TOTAL WEIGHT	475	77		
						LOADED MILES	80			
						CUBIC FEET	1903	.08		
						TON MILES	1903	.08		
						CONTINUATION TOTAL				11,454.58

JOB LOG

SWIFT Services, Inc.

DATE 26 Sep 12 PAGE NO.

CUSTOMER MURPIN DRILLING

WELL NO.

LEASE MARABELLE 1-4

JOB TYPE

5 1/2 LONGSTRING

TICKET NO.

23415

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0730							ON LOCATION
	0820							START PIPE 5 1/2 - 15.5 pp6 RSD @ 4900 SET @ 4885 SHOE JT. 20.60' CENTRALIZERS 1, 3, 5, 7, 9, 11, 13, 15, 17, 66 BASKETS 66, 67 SCRATCHERS 12, 13, 17, 18 DV TOOL TOP OF #66 @ 2198 2239.45
	1055				✓			DROP BALL - CIRCULATE
	1152	6	15		✓	400		Pump 15 Bbl KCL
		6	12		✓	400		Pump 500 gpm FLOCHECK 21
		6	5		✓	400		Pump 5 Bbl KCL
	1202		7.5					PLUG RH - MH (30sx - 20sx)
	1205	4	42		✓			MIX 175sx EA2
	1219							WASH OUT Pump & LINES
	1221	7 1/2			✓			START DISPLACING PLUG
	1237	Ø	117		✓	1500		PLUG DOWN PSI up LATCH PLUG IN
	1239				✓			RELEASE PSI - DRY
	1242							DROP DV OPENING TOOL
	1242							WASH TRUCK
	1252				✓	1200		OPEN DV - CIRCULATE
	1400	6	20		✓	200		Pump 2 DBbl KCL
	1403	6	133		✓			MIX 240sx SMD
	1431							WASH OUT Pump & LINES
	1433	6			✓			START DISPLACING CLOSING PLUG
	1441	Ø	52 1/2		✓	1500		PLUG DOWN PSI up - CLOSE DV TOOL
	1443				✓			RELEASE PSI - DRY
	1444							WASH TRUCK
	1515							JOB COMPLETE
								THANKS #110
								JASON JEFF ISAAC JEREMY