

1091725

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

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

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

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

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

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

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

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

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

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 24, 2012

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

Re: ACO1
API 15-153-20898-00-00
Romar 1-2
SE/4 Sec.02-05S-31W
Rawlins County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

Romar #1-2
 500' FSL 1100' FEL
 Sec. 2-5S-31W
 2777' KB

Brown #1
 Mull Drlg Co.
 Sec. 2-5S-31W
 2848' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2506	+271	-3	2512	+265	-9	2574	+274
B/Anhydrite	2547	+230	-6	2545	+232	-4	2612	+236
Topeka	3590	-807	+5	3591	-808	+4	3660	-812
Heebner	3758	-975	+4	3758	-975	+4	3827	-979
Lansing	3806	-1023	+6	3806	-1023	+6	3877	-1029
Stark	3974	-1191	+6	3976	-1193	+4	4045	-1197
BKC	4027	-1244	+5	4030	-1247	+2	4097	-1249
Pawnee	4133	-1350	+5	4139	-1356	-1	4203	-1355
Ft Scott	4207	-1424	+4	4212	-1429	-1	4176	-1428
Cherokee	4219	-1436	NA	4222	-1439	NA	NDE	
Mississippi	4342	-1559	NA	4347	-1564	NA	NDE	
RTD	4410						4280	
LTD				4411			4281	

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR: **MURFIN DRILLING COMPANY**
 LEASE: **ROMAR #1-2**
 LOCATION: **500' FSI & 1100' FEL**

SEC: **2** TWP: **5 S** RING: **31 W**
 COUNTY: **RAWLINS** STATE: **KANSAS**
 FIELD: **ELNA**
 API: **15-152-206988**

CONTRACTOR: **MURFIN** RIN NO: **8**
 DRILLING STARTED: **05/05/2012** COMPLETED: **05/14/2012**
 MUD DISP ACED: **2972** MUD TYPE: **CHEMICAL**
 DRILLING TIME: **LEFT FROM 3465'** TO **RTD**
 SAMPLES EXAMINED FROM: **3490'** TO **RTD**
 GEOLOGICAL SUPERVISION FROM: **3400'** TO **RTD**

MEASUREMENTS FROM: **K.B.**
 CASING RECORD
 CONDUIT: **NONE**
 Surface: **8.6/8' @ 220'**
 W/ 1/90 SX
 Production: **1 1/2" @ 400'**
 W/ 1/90 SX

ELEVATIONS
 KH: **2783'**
 GL: **2778'**

FORMATION NAME LOG TOP DATUM TOP SAMPLE DATE
 ANHYDRITE 2512' (-271) 2509' (-274)
 TOPEKA 3591' (-808) 3590' (-807)
 HEEBNER 3758' (-975) 3758' (-975)
 LANSING 3806' (-1023) 3806' (-1023)
 STARK 3974' (-1193) 3974' (-1191)
 BKC 4030' (-1243) 4027' (-1244)
 PAWNEE 4139' (-1356) 4133' (-1350)
 CHEROKEE 4222' (-1564) 4220' (-1564)
 MISSISSIPPIAN 4347' (-1628) 4342' (-1628)
 GROUNDWATER 4411' (-1628) 4410' (-1627)

DATE	7:00 AM DEPTH	REMARKS
5/5/12	MIRT	SPUD 1:45 pm
5/6/12	450'	DRLG dev. 1/2 deg. @ 220'
5/7/12	1935'	DRLG
5/8/12	2950'	DRLG
5/9/12	3615'	DRLG
5/10/12	3840'	TOH w/ DST #1 dev. 3/4 deg.
5/11/12	3930'	DRLG
5/12/12	4085'	DRLG
5/13/12	4240'	DRLG
5/14/12	4400'	DRLG RTD 4410' @ 8:00 am dev. 3/4 deg.

Remarks

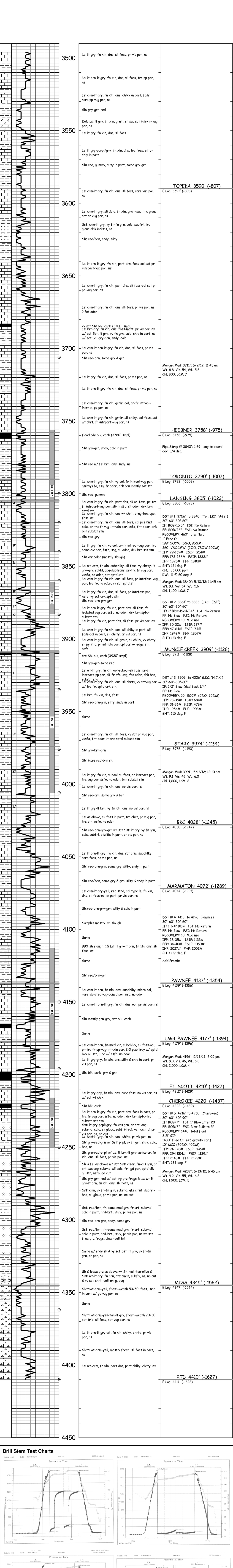
5 1/2" production casing run to further test the Toronto, Lansing / Kansas City and Cherokee formations.

Electric log measurements correlate 1' to 2' deep compared to rotary measurements. Sample tops adjusted to the electric log.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,
Jeff Christian
 Jeff Christian

LITH	DRILL TIME (MIN-FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Romar #1-2

2-5s-31w Rawlins,KS

Start Date: 2012.05.10 @ 00:15:57

End Date: 2012.05.10 @ 09:05:27

Job Ticket #: 47725 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.16 @ 11:57:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47725

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.05.10 @ 00:15:57

GENERAL INFORMATION:

Formation: **Toronto-KC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:43:57

Time Test Ended: 09:05:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3756.00 ft (KB) To 3840.00 ft (KB) (TVD)

Reference Elevations: 2783.00 ft (KB)

Total Depth: 3840.00 ft (KB) (TVD)

2778.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 236.15 psig @ 3757.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.10

End Date:

2012.05.10

Last Calib.: 2012.05.10

Start Time: 00:16:02

End Time:

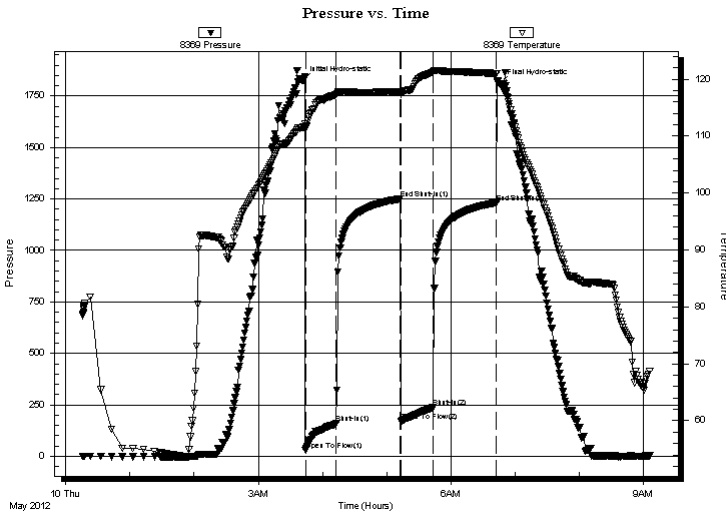
09:05:27

Time On Btm: 2012.05.10 @ 03:41:27

Time Off Btm: 2012.05.10 @ 06:45:27

TEST COMMENT: IF-BOB in 15 1/2 min
ISI-No blow
FF-BOB in 23 min
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.32	111.56	Initial Hydro-static
3	29.44	111.65	Open To Flow (1)
32	158.88	117.35	Shut-In(1)
91	1250.68	117.72	End Shut-In(1)
92	171.53	117.36	Open To Flow (2)
122	236.15	121.24	Shut-In(2)
181	1231.86	121.01	End Shut-In(2)
184	1810.24	119.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	V SOMCW 2%O 78%W 20%M	1.95
199.00	SOCM 5%O 95%M	2.79
1.00	Free Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47725

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.05.10 @ 00:15:57

Tool Information

Drill Pipe:	Length: 3563.00 ft	Diameter: 3.80 inches	Volume: 49.98 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3756.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	112.00 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			3729.00	
Shut In Tool	5.00			3734.00	
Hydraulic tool	5.00			3739.00	
Jars	5.00			3744.00	
Safety Joint	2.00			3746.00	
Packer	5.00			3751.00	28.00 Bottom Of Top Packer
Packer	5.00			3756.00	
Stubb	1.00			3757.00	
Recorder	0.00	8369	Inside	3757.00	
Recorder	0.00	8319	Outside	3757.00	
Perforations	5.00			3762.00	
Change Over Sub	1.00			3763.00	
Drill Pipe	63.00			3826.00	
Change Over Sub	1.00			3827.00	
Perforations	10.00			3837.00	
Bullnose	3.00			3840.00	84.00 Bottom Packers & Anchor
Total Tool Length:	112.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47725

DST#: 1

ATTN: Jeff Christian

Test Start: 2012.05.10 @ 00:15:57

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:

85000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
260.00	VSOMCW 2%O 78%W 20%M	1.953
199.00	SOCM 5%O 95%M	2.791
1.00	Free Oil	0.014

Total Length: 460.00 ft Total Volume: 4.758 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

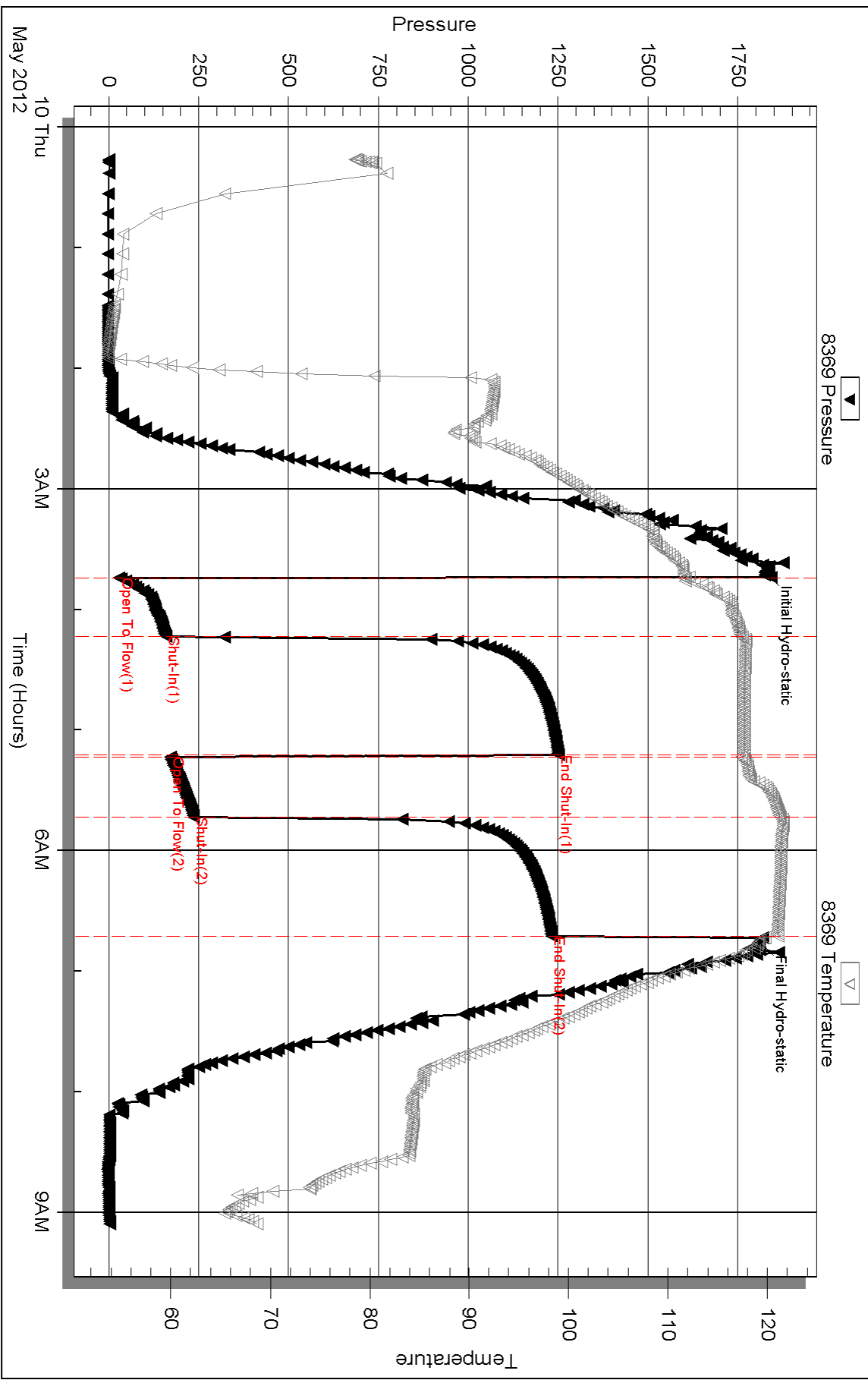
Serial #:

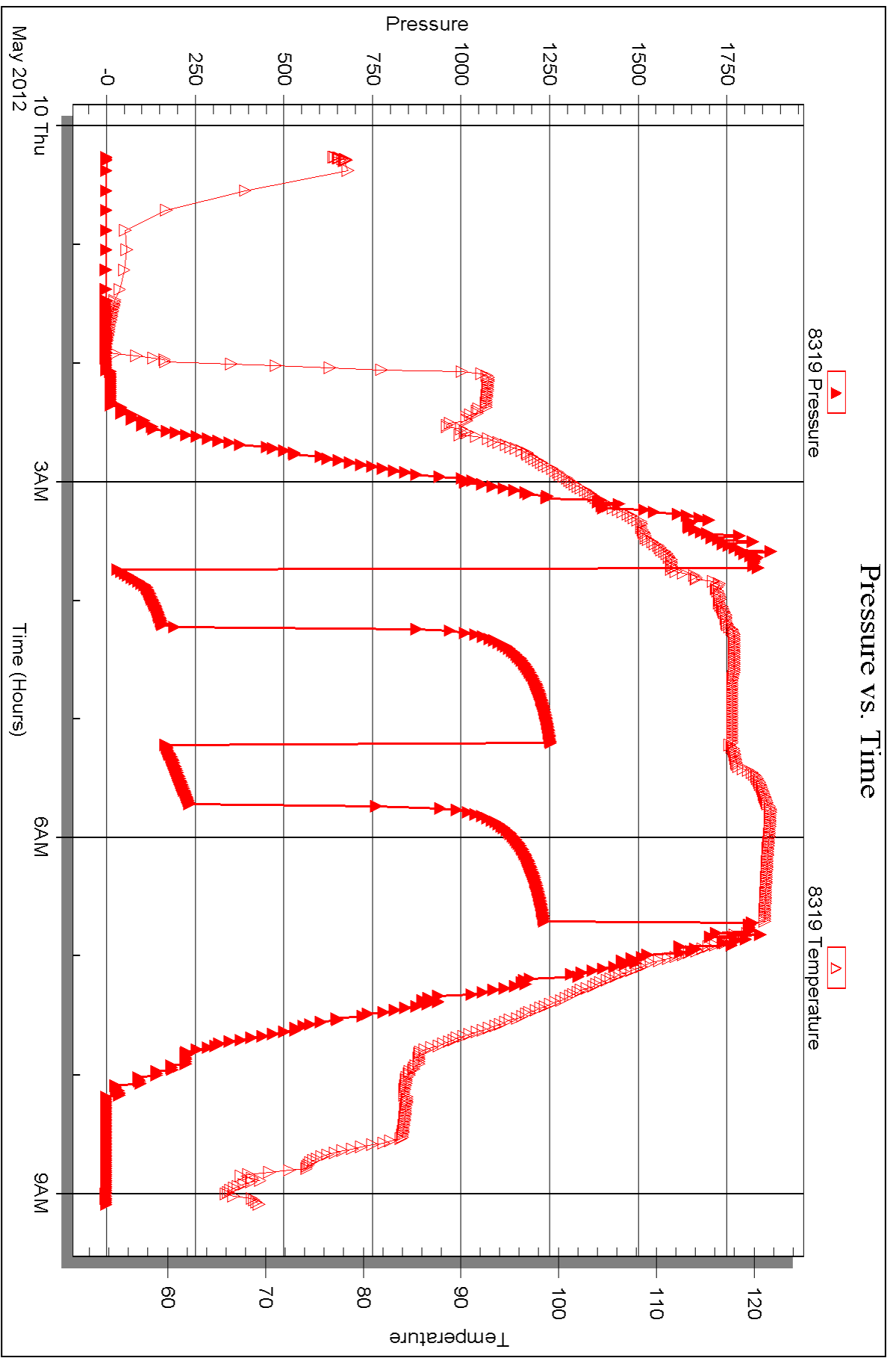
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @ 60

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Romar #1-2

2-5s-31w Rawlins,KS

Start Date: 2012.05.10 @ 17:45:49

End Date: 2012.05.11 @ 00:46:19

Job Ticket #: 47101 DST #: 2

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

Printed: 2012.05.16 @ 11:56:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47101

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.05.10 @ 17:45:49

GENERAL INFORMATION:

Formation: **KC" E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:59:19

Time Test Ended: 00:46:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3861.00 ft (KB) To 3883.00 ft (KB) (TVD)

Reference Elevations: 2783.00 ft (KB)

Total Depth: 3883.00 ft (KB) (TVD)

2778.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8369

Inside

Press @ Run Depth: 64.41 psig @ 3862.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.10

End Date:

2012.05.11

Last Calib.: 2012.05.11

Start Time: 17:45:54

End Time:

00:46:18

Time On Btm: 2012.05.10 @ 19:57:19

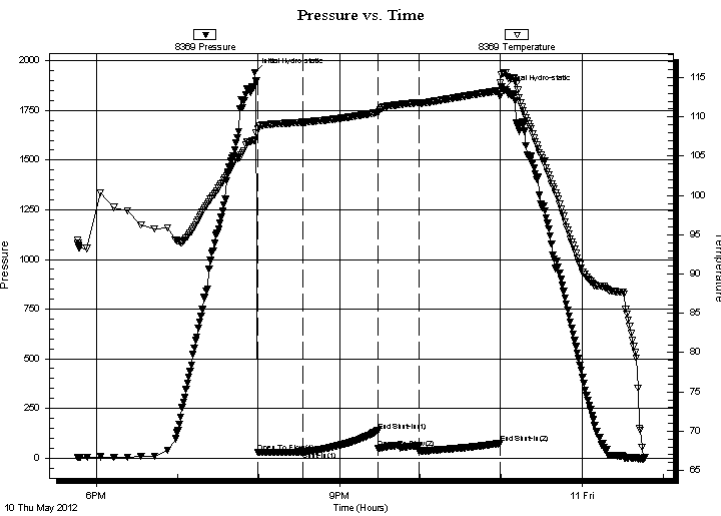
Time Off Btm: 2012.05.10 @ 23:01:19

TEST COMMENT: IF-1 in blow died in 24 min

ISI-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.09	107.04	Initial Hydro-static
2	29.78	108.54	Open To Flow (1)
36	32.04	109.32	Shut-In(1)
91	137.07	110.57	End Shut-In(1)
92	46.68	110.56	Open To Flow (2)
122	64.41	111.83	Shut-In(2)
182	73.98	113.36	End Shut-In(2)
184	1856.84	115.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47101

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.05.10 @ 17:45:49

Tool Information

Drill Pipe:	Length: 3656.00 ft	Diameter: 3.80 inches	Volume: 51.28 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	2.00 ft
				String Weight: Initial	60000.00 lb
Drill Pipe Above KB:	9.00 ft			Final	60000.00 lb
Depth to Top Packer:	3861.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3834.00	
Shut In Tool	5.00			3839.00	
Hydraulic tool	5.00			3844.00	
Jars	5.00			3849.00	
Safety Joint	2.00			3851.00	
Packer	5.00			3856.00	28.00 Bottom Of Top Packer
Packer	5.00			3861.00	
Stubb	1.00			3862.00	
Recorder	0.00	8369	Inside	3862.00	
Recorder	0.00	8319	Outside	3862.00	
Perforations	3.00			3865.00	
Perforations	15.00			3880.00	
Bullnose	3.00			3883.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47101

DST#: 2

ATTN: Jeff Christian

Test Start: 2012.05.10 @ 17:45:49

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

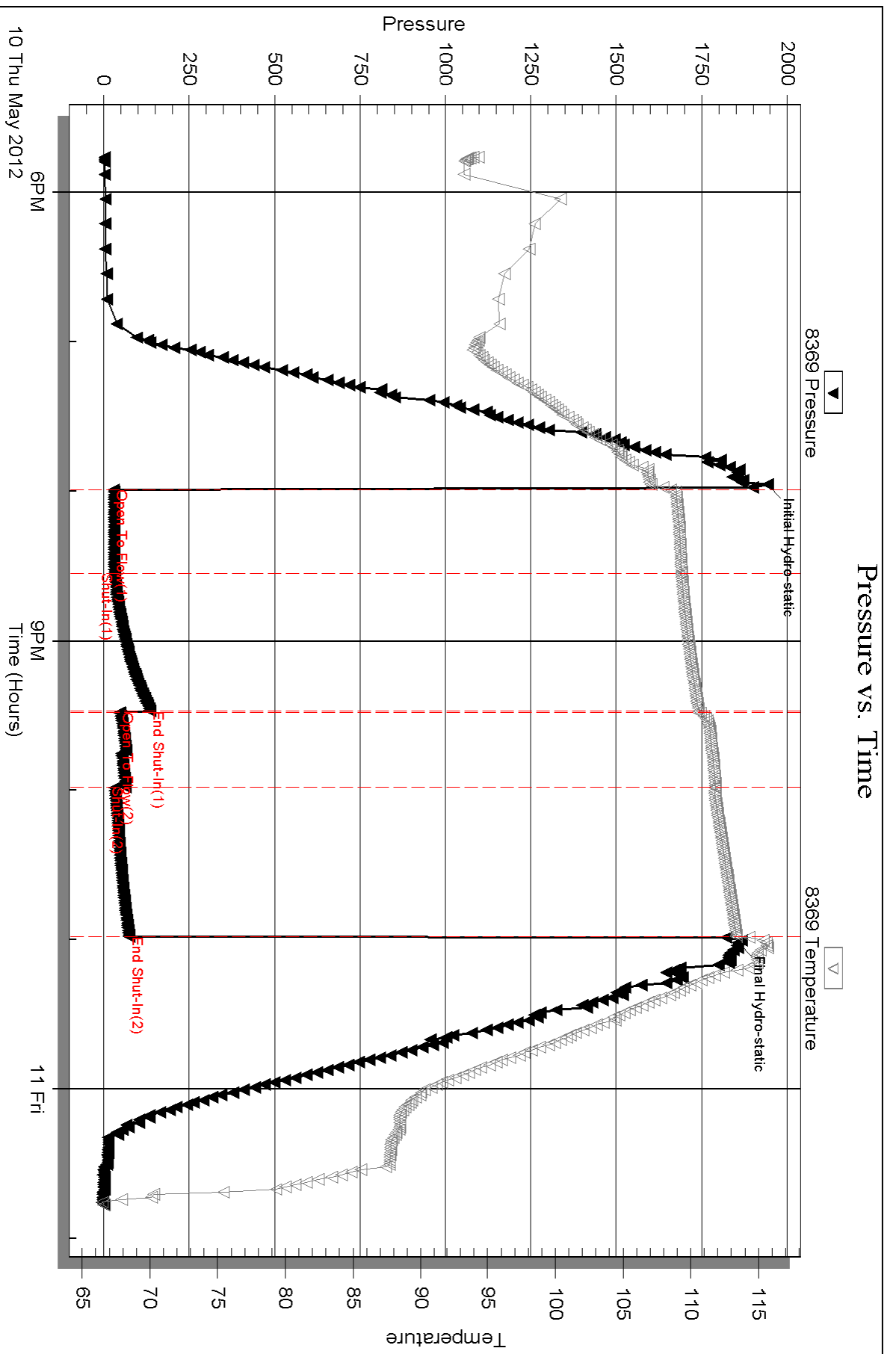
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

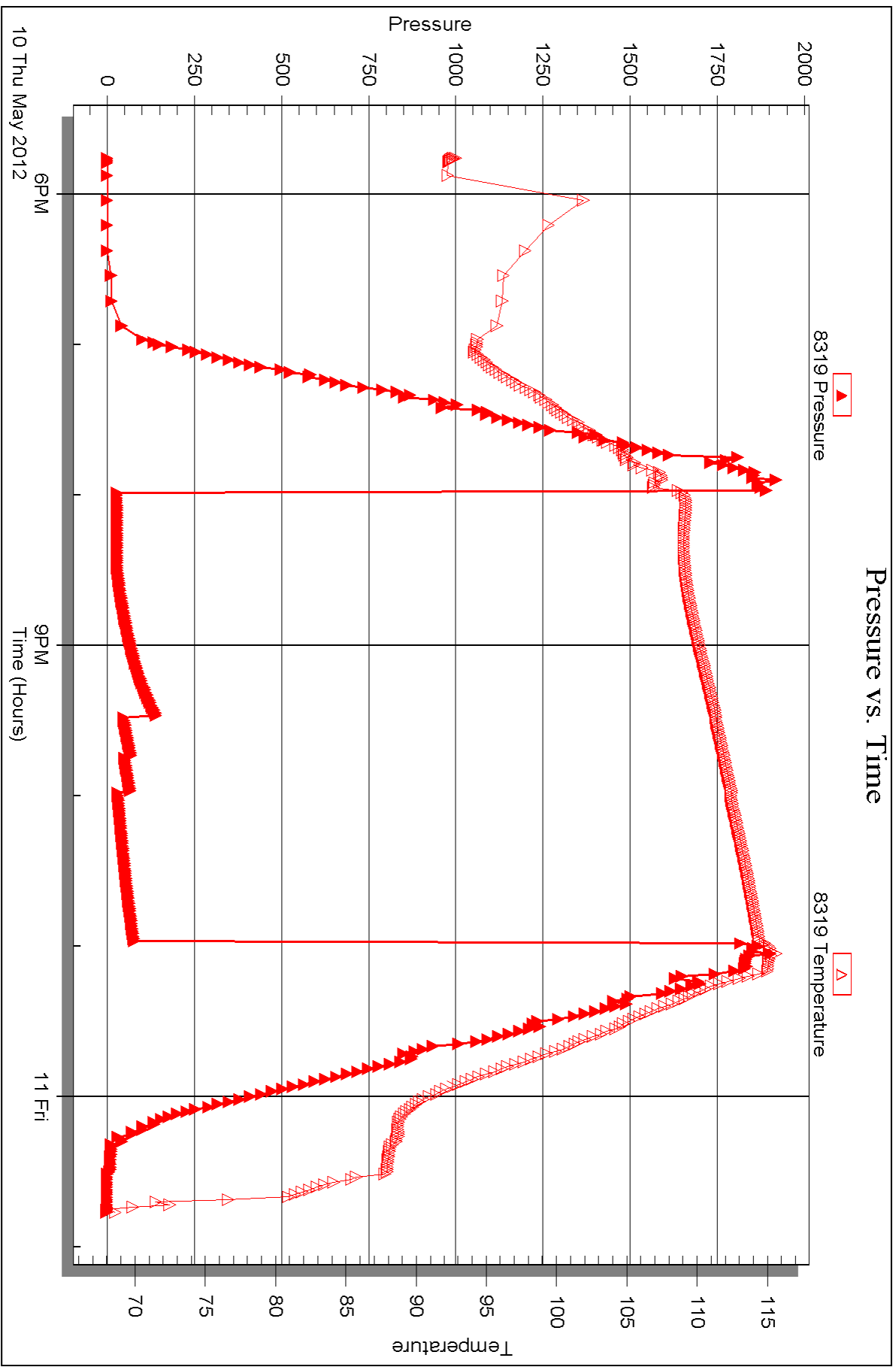


Serial #: 8319

Outside Murfin Drilling Co.

Romar #1-2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Romar #1-2

2-5s-31w Rawlins,KS

Start Date: 2012.05.11 @ 15:55:15

End Date: 2012.05.11 @ 23:19:45

Job Ticket #: 47102 DST #: 3

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

Printed: 2012.05.16 @ 11:56:12

Murfin Drilling Co. 2-5s-31w Rawlins,KS Romar #1-2 DST # 3 KC:"H-K" 2012.05.11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N Water STE 300
Wichita KS 67202
ATTN: Jeff Christian

2-5s-31w Rawlins,KS
Romar #1-2
Job Ticket: 47102 **DST#: 3**
Test Start: 2012.05.11 @ 15:55:15

GENERAL INFORMATION:

Formation: **KC"H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:20:15
Time Test Ended: 23:19:45
Interval: **3909.00 ft (KB) To 4006.00 ft (KB) (TVD)**
Total Depth: 4006.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59
Reference Elevations: 2783.00 ft (KB)
2778.00 ft (CF)
KB to GR/CF: 5.00 ft

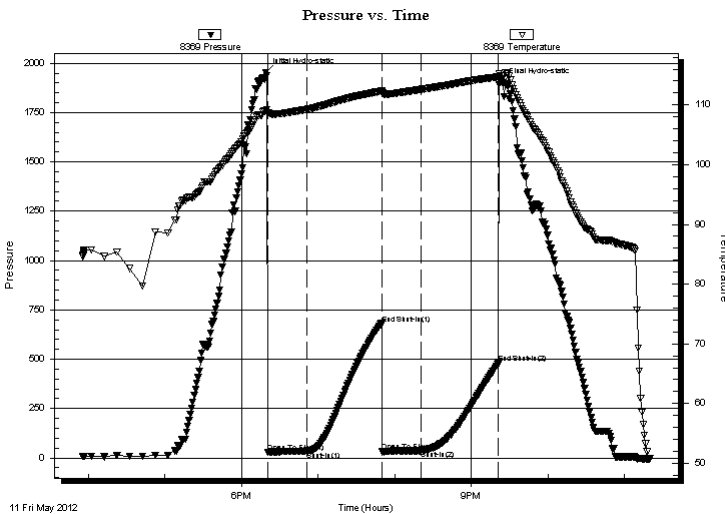
Serial #: 8369

Inside

Press @ Run Depth: 36.31 psig @ 3910.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.11 End Date: 2012.05.11 Last Calib.: 2012.05.11
Start Time: 15:55:20 End Time: 23:19:44 Time On Btm: 2012.05.11 @ 18:18:45
Time Off Btm: 2012.05.11 @ 21:24:15

TEST COMMENT: IF-1/2 in blow died back to 1/4 in
ISI-No blow
FF-No blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.66	109.00	Initial Hydro-static
2	27.86	108.62	Open To Flow (1)
33	35.28	109.27	Shut-In(1)
91	680.90	112.30	End Shut-In(1)
92	31.16	111.98	Open To Flow (2)
122	36.31	112.58	Shut-In(2)
183	477.98	114.70	End Shut-In(2)
186	1902.76	114.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 5%O 95%M	0.05

* 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.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47102

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.05.11 @ 15:55:15

Tool Information

Drill Pipe:	Length: 3719.00 ft	Diameter: 3.80 inches	Volume: 52.17 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	61000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	3909.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	97.00 ft				
Tool Length:	125.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3882.00	
Shut In Tool	5.00			3887.00	
Hydraulic tool	5.00			3892.00	
Jars	5.00			3897.00	
Safety Joint	2.00			3899.00	
Packer	5.00			3904.00	28.00 Bottom Of Top Packer
Packer	5.00			3909.00	
Stubb	1.00			3910.00	
Recorder	0.00	8369	Inside	3910.00	
Recorder	0.00	8319	Outside	3910.00	
Perforations	5.00			3915.00	
Change Over Sub	1.00			3916.00	
Drill Pipe	63.00			3979.00	
Change Over Sub	1.00			3980.00	
Perforations	23.00			4003.00	
Bullnose	3.00			4006.00	97.00 Bottom Packers & Anchor
Total Tool Length:	125.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47102

DST#: 3

ATTN: Jeff Christian

Test Start: 2012.05.11 @ 15:55:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 5%O 95%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

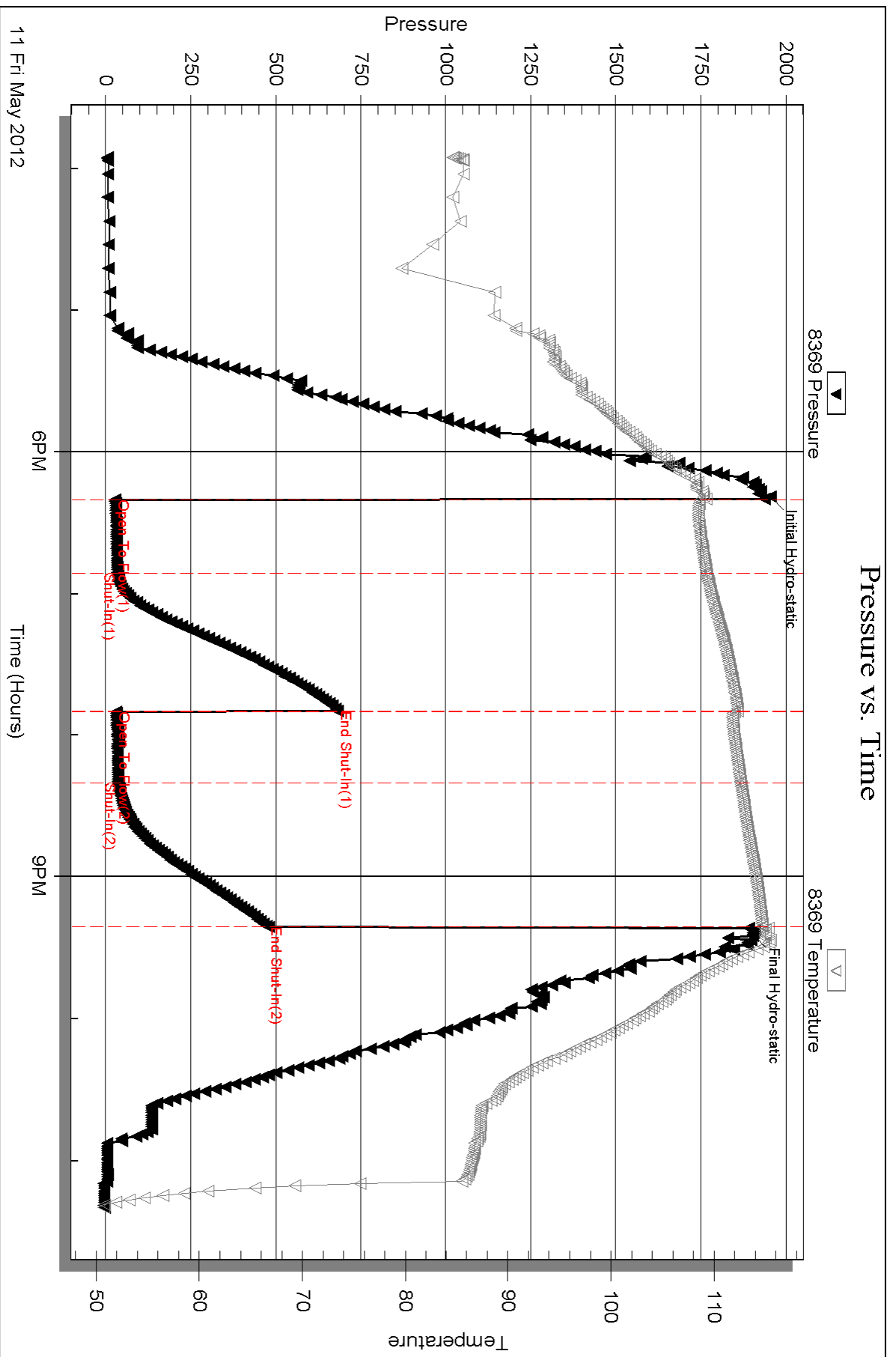
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

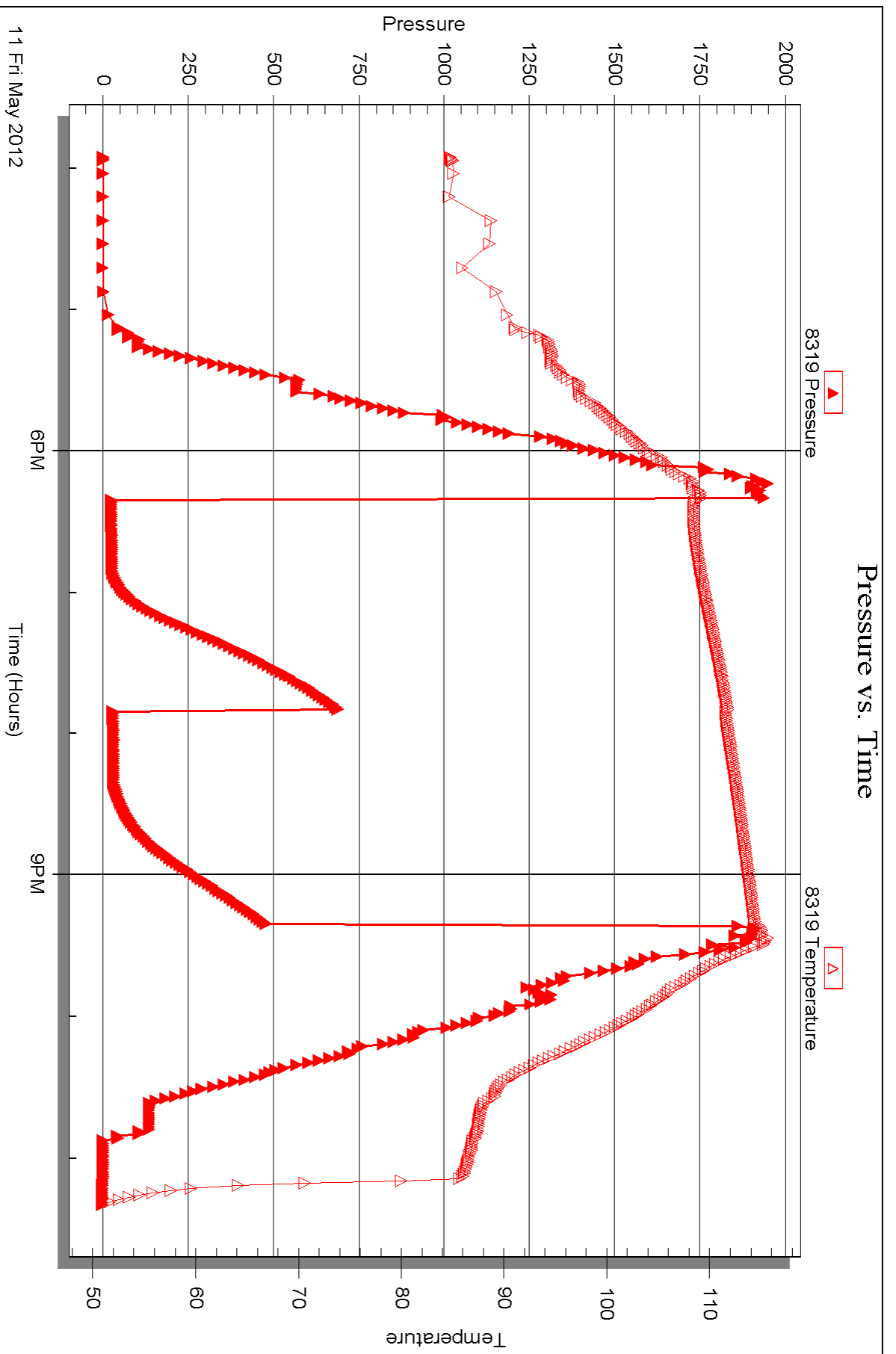


Serial #: 8319

Outside Murfin Drilling Co.

Ronar #1-2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 47102

Printed: 2012.05.16 @ 11:56:14



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Romar #1-2

2-5s-31w Rawlins,KS

Start Date: 2012.05.12 @ 17:15:30

End Date: 2012.05.13 @ 00:46:30

Job Ticket #: 47103 DST #: 4

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

Printed: 2012.05.16 @ 11:55:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47103

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.05.12 @ 17:15:30

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:30

Time Test Ended: 00:46:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4113.00 ft (KB) To 4196.00 ft (KB) (TVD)

Reference Elevations: 2783.00 ft (KB)

Total Depth: 4196.00 ft (KB) (TVD)

2778.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8369 Inside

Press @ Run Depth: 39.86 psig @ 4114.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.12

End Date:

2012.05.13

Last Calib.: 2012.05.13

Start Time: 17:15:35

End Time:

00:46:29

Time On Btm: 2012.05.12 @ 19:37:00

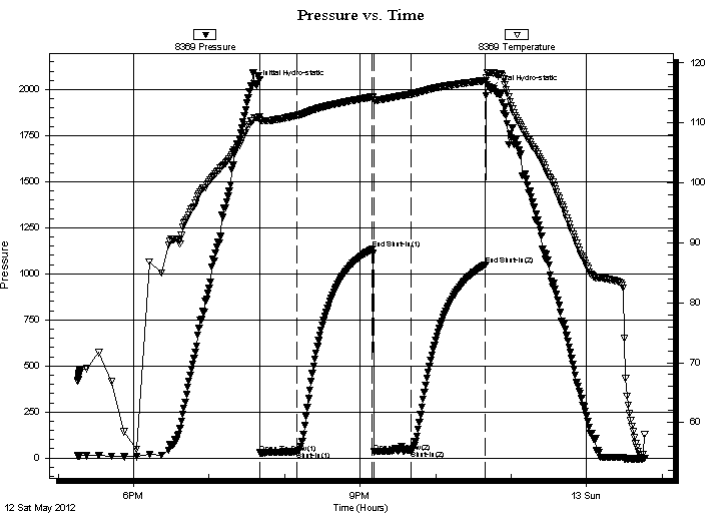
Time Off Btm: 2012.05.12 @ 22:43:00

TEST COMMENT: IF-1 1/4 in blow

ISI-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.30	110.86	Initial Hydro-static
4	27.83	110.46	Open To Flow (1)
33	34.88	111.27	Shut-In(1)
93	1133.03	114.33	End Shut-In(1)
94	33.70	113.83	Open To Flow (2)
124	39.86	114.79	Shut-In(2)
183	1050.15	117.08	End Shut-In(2)
186	2001.98	118.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

* 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.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47103

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.05.12 @ 17:15:30

Tool Information

Drill Pipe:	Length: 3909.00 ft	Diameter: 3.80 inches	Volume: 54.83 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4113.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	111.00 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			4086.00	
Shut In Tool	5.00			4091.00	
Hydraulic tool	5.00			4096.00	
Jars	5.00			4101.00	
Safety Joint	2.00			4103.00	
Packer	5.00			4108.00	28.00 Bottom Of Top Packer
Packer	5.00			4113.00	
Stubb	1.00			4114.00	
Recorder	0.00	8369	Inside	4114.00	
Recorder	0.00	8319	Outside	4114.00	
Perforations	4.00			4118.00	
Change Over Sub	1.00			4119.00	
Drill Pipe	63.00			4182.00	
Change Over Sub	1.00			4183.00	
Perforations	10.00			4193.00	
Bullnose	3.00			4196.00	83.00 Bottom Packers & Anchor
Total Tool Length:	111.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 47103

DST#: 4

ATTN: Jeff Christian

Test Start: 2012.05.12 @ 17:15:30

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

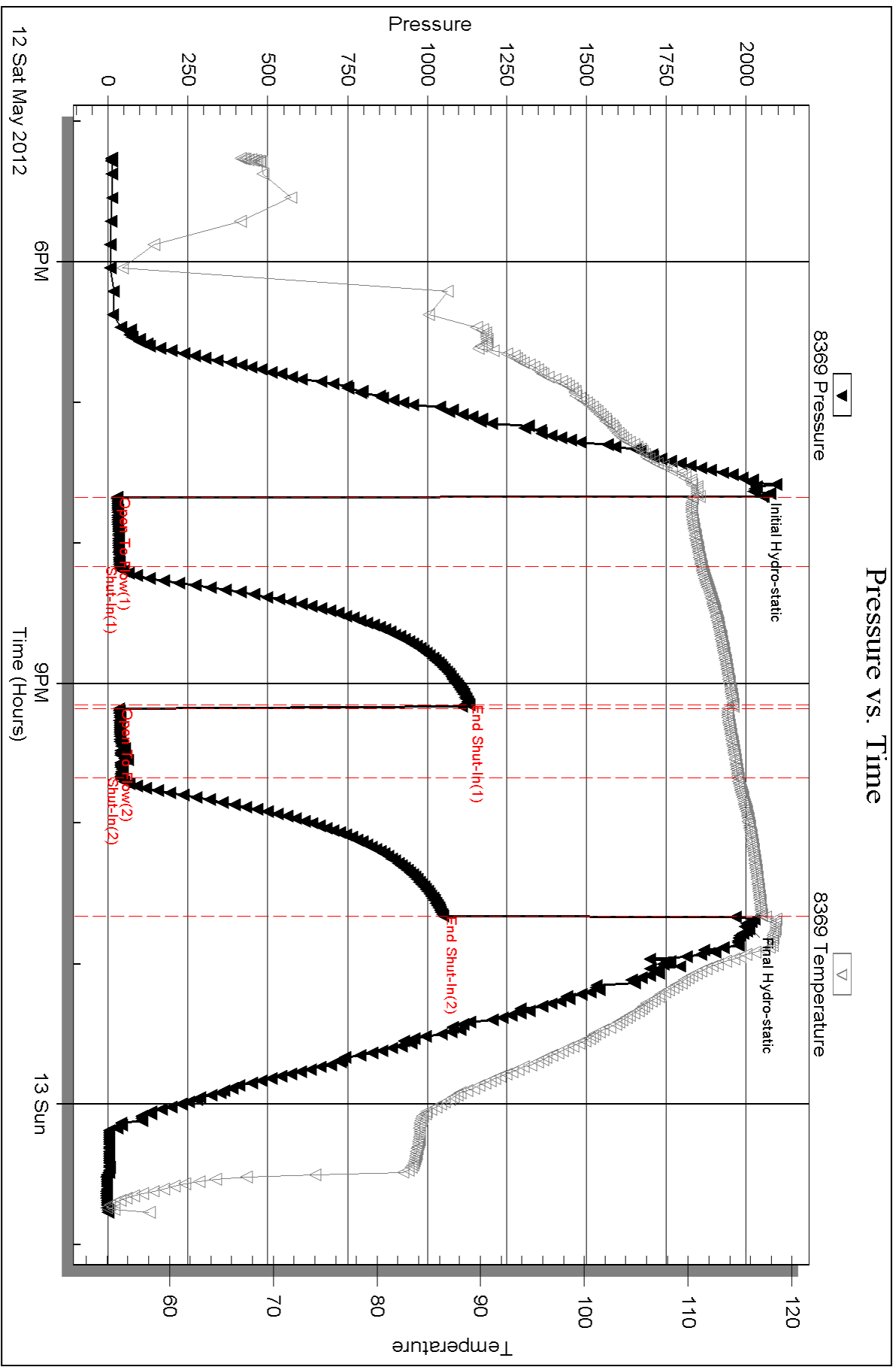
Num Gas Bombs: 0

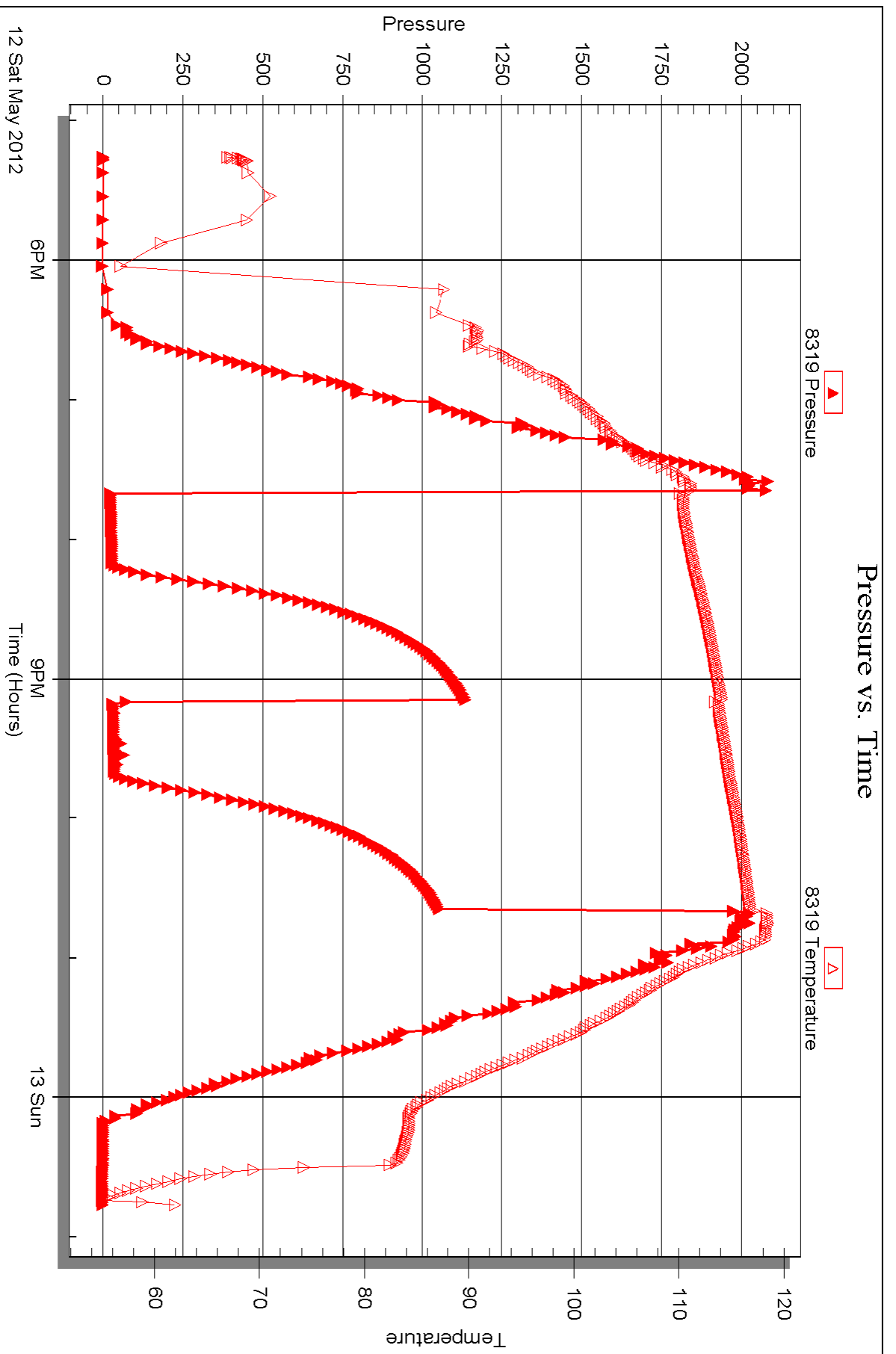
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Romar #1-2

2-5s-31w Rawlins,KS

Start Date: 2012.05.13 @ 10:34:00

End Date: 2012.05.13 @ 20:13:15

Job Ticket #: 42495 DST #: 5

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

Printed: 2012.05.16 @ 11:55:00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 42495

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.05.13 @ 10:34:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:41:15

Time Test Ended: 20:13:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 4216.00 ft (KB) To 4250.00 ft (KB) (TVD)

Reference Elevations: 2783.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

2778.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press @ Run Depth: 554.64 psig @ 4217.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.13

End Date:

2012.05.13

Last Calib.:

2012.05.13

Start Time:

10:34:05

End Time:

20:13:15

Time On Btm:

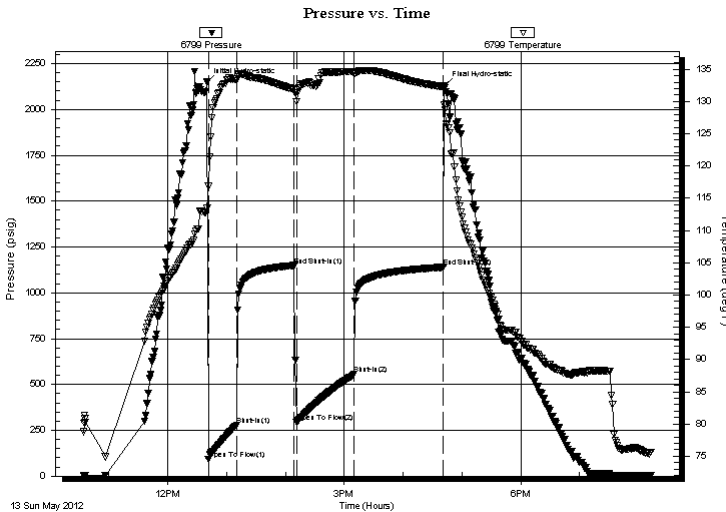
2012.05.13 @ 12:40:00

Time Off Btm:

2012.05.13 @ 16:42:15

TEST COMMENT: 30 - IF - BoB in 7 min. Then died back to 8"
60 - IS - Return started at 20 min. Built to 1"
60 - FF - BoB in 6 min.
90 - FS - Return started at 10 min. Built to 5"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2148.41	113.44	Initial Hydro-static
2	91.44	116.86	Open To Flow (1)
30	278.68	133.22	Shut-In(1)
89	1149.02	131.84	End Shut-In(1)
92	294.56	129.97	Open To Flow (2)
150	554.64	134.43	Shut-In(2)
242	1139.47	132.26	End Shut-In(2)
243	2129.08	129.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MCO 60o 40M	0.05
1430.00	Free Oil 100o	18.46
0.00	315' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 42495

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.05.13 @ 10:34:00

Tool Information

Drill Pipe:	Length: 4008.00 ft	Diameter: 3.80 inches	Volume: 56.22 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.13 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4216.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	5	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			4188.00	
Shut In Tool	5.00			4193.00	
Hydraulic tool	5.00			4198.00	
Jars	5.00			4203.00	
Safety Joint	3.00			4206.00	
Packer	5.00			4211.00	29.00 Bottom Of Top Packer
Packer	5.00			4216.00	
Stubb	1.00			4217.00	
Recorder	0.00	8648	Inside	4217.00	
Recorder	0.00	6799	Inside	4217.00	
Perforations	28.00			4245.00	
Bullnose	5.00			4250.00	34.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

2-5s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Romar #1-2

Job Ticket: 42495

DST#: 5

ATTN: Jeff Christian

Test Start: 2012.05.13 @ 10:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

45 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MCO 60o 40M	0.049
1430.00	Free Oil 100o	18.456
0.00	315' GIP	0.000

Total Length: 1440.00 ft Total Volume: 18.505 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 48 @ 90 deg. 45

Serial #: 6799

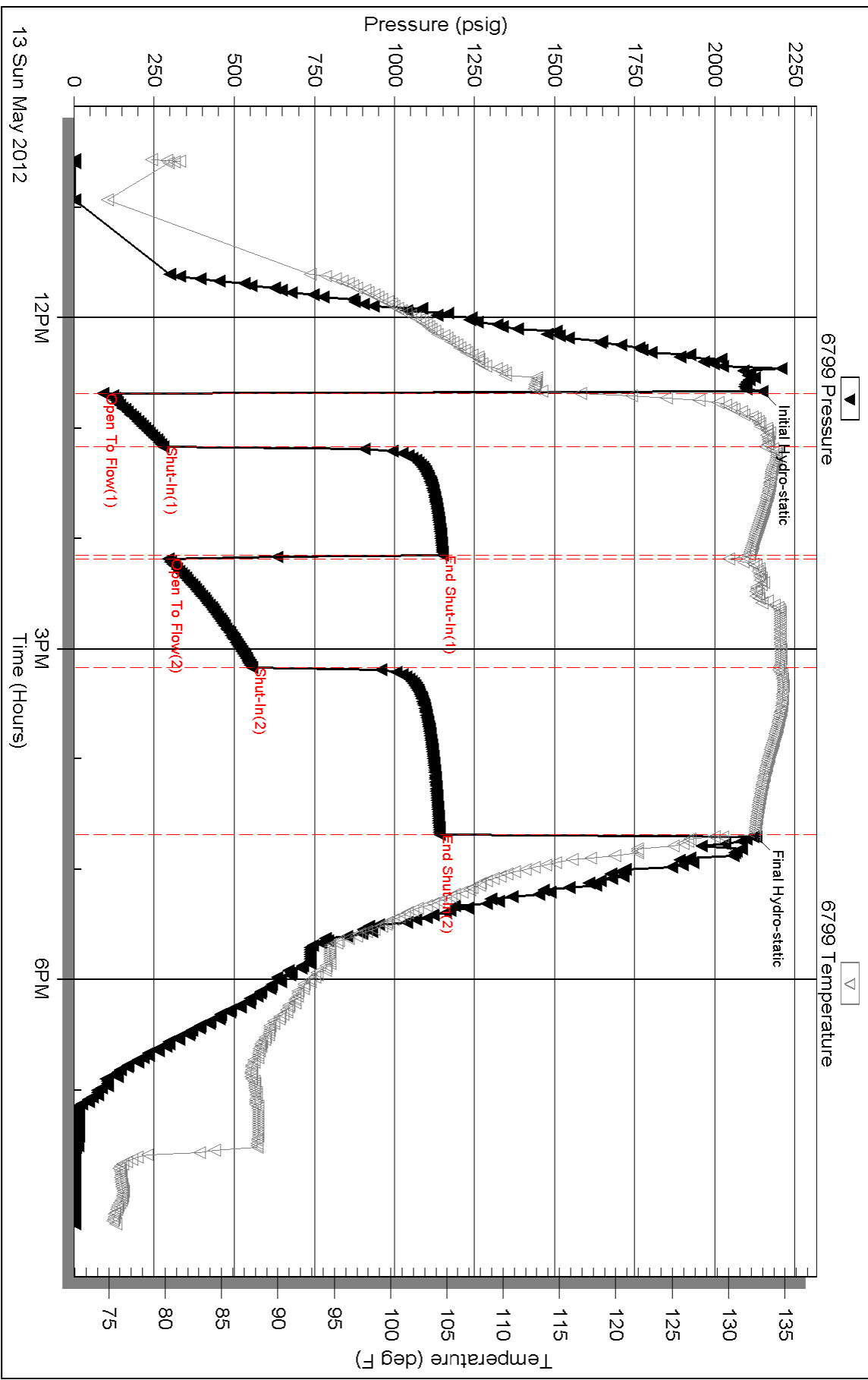
Inside

Murfin Drilling Co.

Romar #1-2

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 42495

Printed: 2012.05.16 @ 11:55:02

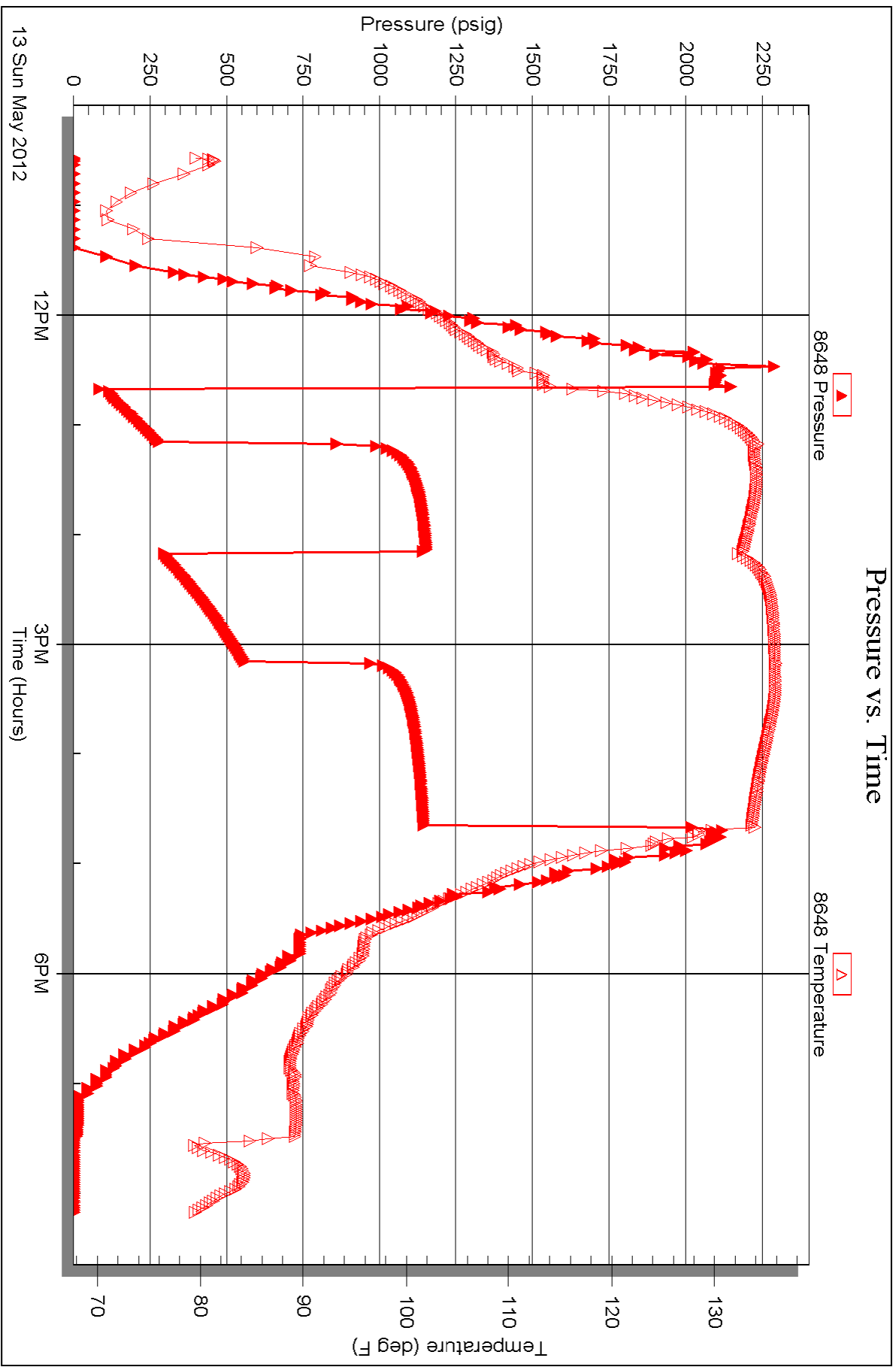
Serial #: 8648

Inside

Murfin Drilling Co.

Romar #1-2

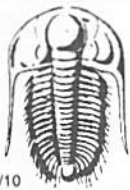
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 42495

Printed: 2012.05.16 @ 11:55:03



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47725

Well Name & No. Romer #1-2 Test No. 1 Date 5/9/12
 Company Murfin Drilling Co. Elevation 2783 KB 2778 GL
 Address 250 N water STE 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #18
 Location: Sec. 2 Twp. 5S Rge. 31w Co. Rawlins State KS

Interval Tested 3756 - 3840 Zone Tested Toronto - KCB
 Anchor Length 84 Drill Pipe Run 3563 Mud Wt. 8.8
 Top Packer Depth 3751 Drill Collars Run 186 Vis 54
 Bottom Packer Depth 3756 Wt. Pipe Run — WL 5.6
 Total Depth 3840 Chlorides 800 ppm System LCM 7#

Blow Description FF - BOB in 15 1/2 min
ISI - No blow
FF - BOB in 23 min
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>260</u>	<u>Feet of VSOMCW</u>	<u>2</u>	<u>78</u>	<u>20</u>	
<u>199</u>	<u>Feet of SOCM</u>	<u>5</u>		<u>95</u>	
<u>1</u>	<u>Feet of Free O. 1</u>				

Rec Total 460 BHT 121 Gravity _____ API RW 11 @ 60 ° F Chlorides 85000 ppm

(A) Initial Hydrostatic <u>1,825</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>23:35</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:15</u>
(C) First Final Flow <u>159</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:35</u>
(D) Initial Shut-In <u>1,251</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>6:35</u>
(E) Second Initial Flow <u>172</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:00</u>
(F) Second Final Flow <u>236</u>	<input checked="" type="checkbox"/> Mileage <u>128x2</u> 60rt 93	Comments _____
(G) Final Shut-In <u>4,232</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>4,810</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1568

Sub Total 1568

Approved By _____ Our Representative Brett Dick

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47101

4/10

Well Name & No. Romar #1-2 Test No. 2 Date 5/10/12
 Company Murfin Drilling Co. Elevation 2783 KB 2778 GL
 Address 256 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #8
 Location: Sec. 2 Twp. 5S Rge. 3W Co. Rawlins State KS

Interval Tested 3861 - 3883 Zone Tested KCⁿE-Fⁿ
 Anchor Length 22 Drill Pipe Run 3656 Mud Wt. 9.1
 Top Packer Depth 3856 Drill Collars Run 186 Vis 54
 Bottom Packer Depth 3861 Wt. Pipe Run — WL 5.6
 Total Depth 3883 Chlorides 1100 ppm System LCM 7
 Blow Description IF - lin blow died in 24min
IS2 - No blow
FF - N
FS2 - N

Rec	Feet of	%gas	%oil	%water	%mud
10	Mud				

Rec Total 10 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1942 Test 1150 T-On Location 17:45
 (B) First Initial Flow 30 Jars 250 T-Started 17:45
 (C) First Final Flow 32 Safety Joint 75 T-Open 20:00
 (D) Initial Shut-In 137 Circ Sub T-Pulled 23:00
 (E) Second Initial Flow 47 Hourly Standby T-Out 00:45
 (F) Second Final Flow 64 Mileage ~~12842~~ 93 Comments _____
 (G) Final Shut-In 74 Sampler _____
 (H) Final Hydrostatic 1857 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1568
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1568

Approved By _____ Our Representative Burt Dahn

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47102

Well Name & No. Roman #1-2 Test No. 3 Date 5/11/12
 Company Murrin Drilling CO. Elevation 2783 KB 2778 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murrin #8
 Location: Sec. 2 Twp. 5S Rge. 31w Co. Rawlins State KS

Interval Tested 3909 - 4006 Zone Tested KC "H-K"
 Anchor Length 97 Drill Pipe Run 3719 Mud Wt. 9.1
 Top Packer Depth 3904 Drill Collars Run 186 Vis 46
 Bottom Packer Depth 3909 Wt. Pipe Run — WL 6
 Total Depth 4006 Chlorides 1,600 ppm System LCM 6TH
 Blow Description IF - 1/2 in blow died back to 4 in
ISI - No blow
FF - N
FSI - N

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>SOCM</u>		<u>5</u>		<u>95</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 10 BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,954 Test 1250 T-On Location 15:30
 (B) First Initial Flow 28 Jars 250 T-Started 15:55
 (C) First Final Flow 35 Safety Joint 75 T-Open 18:15
 (D) Initial Shut-In 681 Circ Sub T-Pulled 21:15
 (E) Second Initial Flow 31 Hourly Standby T-Out 23:15
 (F) Second Final Flow 36 Mileage 128 x 2 93 Comments _____
 (G) Final Shut-In 478 Sampler _____
 (H) Final Hydrostatic 1,903 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1668

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

Sub Total 0
 Total 1668
 MP/DST Disc't _____

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47103

Well Name & No. Romar #1-2 Test No. 4 Date 5/12/12
 Company Martin Drilling Co. Elevation 2783 KB 2778 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christian Rig Martin #8
 Location: Sec. 2 Twp. 5S Rge. 3W Co. Rawlins State KS

Interval Tested 4113 - 4196 Zone Tested Pawnee
 Anchor Length 83 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4108 Drill Collars Run 186 Vis 54
 Bottom Packer Depth 4113 Wt. Pipe Run _____ WL 6
 Total Depth 4196 Chlorides 2,000 ppm System LCM 4
 Blow Description IF - 1 1/4 in blow
ISI - No blow
FF - N
FSI - N

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</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 10 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,027 Test 1250 T-On Location 16:40
 (B) First Initial Flow 28 Jars 250 T-Started 17:15
 (C) First Final Flow 35 Safety Joint 75 T-Open 19:40
 (D) Initial Shut-In 1,133 Circ Sub _____ T-Pulled 22:40
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 00:45
 (F) Second Final Flow 40 Mileage 128x2 93 Comments _____
 (G) Final Shut-In 1,050 Sampler _____
 (H) Final Hydrostatic 2,002 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 1668
 Total 1668
 MP/DST Disc't _____

Approved By _____ Our Representative Beth Dier

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042495

Well Name & No. Romar #1-2 Test No. 5 Date 5-13-12
 Company Murfin Drilling Co. Elevation 2783 KB 2778 GL
 Address 250 N. Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. JEFF Christian Rig Murfin #2
 Location: Sec. 2 Twp. 5s Rge. 31w Co. Rawlins State KS

Interval Tested 4216-4250 Zone Tested Cherokee
 Anchor Length 34' Drill Pipe Run 4608 Mud Wt. 9.2
 Top Packer Depth 4212 Drill Collars Run 186' Vis SS
 Bottom Packer Depth 4216 Wt. Pipe Run Ø WL 6.8
 Total Depth 4250 Chlorides 1,900 ppm System LCM 5#
 Blow Description IF- BoB in 7 min, Then died back to 8"
IS- Return started at 20 min. Built to 1"
AF- BoB in 6 min.
FS- Return started at 10 min. Built to


Rec	Feet of	%gas	%oil	%water	%mud
1000	1000				
1430	Free Oil	100			
10	MCO	60		40	

Rec Total 1440 BHT 132 Gravity 45 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2148 Test 1250 T-On Location 9:45 AM
 (B) First Initial Flow 91 Jars 250 T-Started 10:34 AM
 (C) First Final Flow 278 Safety Joint 75 T-Open 12:40 PM
 (D) Initial Shut-In 1149 Circ Sub N/C T-Pulled 4:40 PM
 (E) Second Initial Flow 294 Hourly Standby _____ T-Out 8:13 PM
 (F) Second Final Flow 554 Mileage 60 RT 93 Comments 315' GFP
 (G) Final Shut-In 1139 Sampler _____
 (H) Final Hydrostatic 2129 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1668
 MP/DST Disc't _____

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

Sub Total 1668

Approved By _____ Our Representative 

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



acct.
Liz H.

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131064

Invoice Date: May 5, 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

OPERATOR PAY MDC
LEASE: BR



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Romar #1-2	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 5, 2012	6/4/12

Quantity	Item	Description	Unit Price	Amount
190.00	MAT	Class A Common	16.25	3,087.50
7.00	MAT	Chloride	58.20	407.40
199.50	SER	Handling	2.10	418.95
45.00	SER	Ton Miles	21.62	972.84
1.00	SER	Surface	1,125.00	1,125.00
45.00	SER	Heavy Vehicle Mileage	7.00	315.00
1.00	SER	Manifold Head Rental	200.00	200.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Steve Heikkila		

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

\$ 2347.34

ONLY IF PAID ON OR BEFORE
May 30, 2012

Subtotal	6,706.69
Sales Tax	281.34
Total Invoice Amount	6,988.03
Payment/Credit Applied	
TOTAL	6,988.03

Deduct

06/09

BR

ALLIED OIL & GAS SERVICES, LLC 056256

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley

DATE <i>5-25-12</i>	SEC. <i>2</i>	TWP. <i>5S</i>	RANGE <i>31W</i>	CALLED OUT	ON LOCATION	JOB START <i>2:00pm</i>	JOB FINISH <i>2:30pm</i>	
EASE <i>Ramar</i>		WELL # <i>1-2</i>		LOCATION <i>Rexford 2N 1W</i>		COUNTY <i>Rawlins</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <input checked="" type="radio"/> OLD				LOCATION <i>2 1/2 N 1/2 E S10 T0</i>				

CONTRACTOR *Murfin &*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/8* T.D. *220'*
 TAPING SIZE *8 5/8* DEPTH *220'*
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 RES. MAX _____ MINIMUM _____
 LEAS. LINE _____ SHOE JOINT *#5*
 CEMENT LEFT IN CSG. *15'*
 PERFS. _____
 DISPLACEMENT *13 BBL*
 EQUIPMENT _____

PUMP TRUCK CEMENTER *Andrew*
423-281 HELPER *Jerry*
 DUMP TRUCK DRIVER *Steven*
904
 DUMP TRUCK DRIVER _____

REMARKS:

Cement Did Circulate

Thank you

CHARGE TO: *Murfin*
 STREET _____
 CITY _____ STATE _____ ZIP _____

OWNER *same*
 CEMENT AMOUNT ORDERED *190 com 3% cc*
 COMMON *190 sks* @ *16.25* *3087.50*
 POZMIX @ _____
 GEL @ _____
 CHLORIDE *7 sks* @ *58.20* *407.40*
 ASC @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING *199.5 cu ft @ 2.10* *418.95*
 MILEAGE *9.1925 hr/mile 2.25* *952.84*
 TOTAL *4886.69*

SERVICE

DEPTH OF JOB *220'*
 PUMP TRUCK CHARGE _____ *1125.00*
 EXTRA FOOTAGE @ _____
 MILEAGE *45 miles* @ *7.00* *315.00*
 MANIFOLD *head* @ _____ *200.00*
light vehicle @ *4.80* *1800.00*
 @ _____
 TOTAL *1820.00*

PLUG & FLOAT EQUIPMENT

@ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

SALES TAX (if Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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 *Rodney Farr*
 SIGNATURE *Rodney Farr*



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



Invoice

DATE	INVOICE #
5/22/2012	21725

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-2	Romar	Rawlins	Company Rig	Oil	Development	Cement Port Collar	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	110	Miles	6.00	660.00
576D-D	Pump Charge - Port Collar - 2508 Feet	1	Job	1,250.00	1,250.00
290	D-Air	3	Gallon(s)	35.00	105.00T
330	Swift Multi-Density Standard (MIDCON II)	225	Sacks	16.50	3,712.50T
276	Flocele	57	Lb(s)	2.00	114.00T
581D	Service Charge Cement	300	Sacks	2.00	600.00
583D	Drayage	1,641.92	Ton Miles	1.00	1,641.92
	Subtotal				8,083.42
	Sales Tax Rawlins County			8.05%	316.49

USED FOR IC 103

APPROVED [Signature]

We Appreciate Your Business!

Total \$8,399.91



Services, Inc.

CHARGE TO: Murkin Dry Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET NO 21725

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Hills, Ks</u>	<u>1-2</u>	<u>Rawmar</u>	<u>Rawlins</u>	<u>Ks</u>		<u>5-22-12</u>	
2. <u>Ness City, Ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co R's</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>NW Oxford, Ks</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>solidcat</u>	JOB PURPOSE <u>Cement Port & Rig</u>	WELL PERMIT NO.			
4.	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.				UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM		
575					MILEAGE # 113	112	Mi			400	44800
576-D					Pump Charge - cwt Port Galat	1ea		2508	A.	12500	12500
290					D-Air	350	gal			3500	12250
330					SMD Cement	225	SKS			1650	3712.50
296					Flareole	57	lbs				11400
581					Service Charge - Cement	300	SKS	2853	lb	200	60000
583						169	lb	24		100	1651.92

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: 5-22-12 TIME SIGNED: 8:20 A.M. P.M.

DATE SIGNED: _____ TIME SIGNED: _____ A.M. P.M.

SWIFT OPERATOR: [Signature] APPROVAL: _____

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 8083.98
 TOTAL: 8399.91

Rawlins Tax 8.05%

516 49

Thank You!



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



Invoice

DATE	INVOICE #
5/14/2012	21720

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

USED FOR IC 103
APPROVAL JF K

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-2	Romar	Rawlins	Company Rig #8	Oil	Development	Cement LongStri...	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	110	Miles	6.00	660.00
578D-L	Pump Charge - Long String	1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
280	Flocheck 21	500	Gallon(s)	2.50	1,250.00T
409-5	5 1/2" Turbolizer	15	Each	90.00	1,350.00T
403-5	5 1/2" Cement Basket	2	Each	250.00	500.00T
404-5	5 1/2" Port Collar	1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	350.00	350.00T
413-5	5 1/2" Roto Wall Scratcher	15	Each	40.00	600.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
325	Standard Cement	225	Sacks	13.50	3,037.50T
276	Flocele	57	Lb(s)	2.00	114.00T
283	Salt	1,125	Lb(s)	0.20	225.00T
284	Calseal	11	Sack(s)	35.00	385.00T
285	CFR-1	159	Lb(s)	4.00	636.00T
581D	Service Charge Cement	225	Sacks	2.00	450.00
583D	Drayage	1,295.2	Ton Miles	1.00	1,295.20
	Subtotal				15,302.70
	Sales Tax Rawlins County			8.05%	917.50

We Appreciate Your Business!	Total	\$16,220.20
-------------------------------------	--------------	-------------



CHARGE TO: Marvin Dtg Co.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET No 21720

PAGE 1 OF 2

SERVICE LOCATIONS

1. Days, KS WELL/PROJECT NO. 1-2 LEASE Romar COUNTY/PARISH Roulin STATE KS CITY _____ DATE 5-14-12 OWNER _____

2. Missouri, KS TICKET TYPE CONTRACTOR CONTRACTOR Co RIG NAME/NO. #8 SHIPPED VIA CT DELIVERED TO MJ Korf and K ORDER NO. _____

3. _____ WELL TYPE _____ WELL CATEGORY Wildcat JOB PURPOSE Cement Longstring WELL PERMIT NO. _____ WELL LOCATION _____

4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.		
575						110 mi				600	66000
578					Ramp Charge	1 ea				150000	150000
221					Liquid Kill	4 gal				2500	10000
282					Fa-check 21	50 gal				250	12500
409					Cement Turb 1/2 in	15 ea				9000	135000
403					Cement Baskets	2 ea				25000	50000
404					Port Collar	1 ea				84000	84000
406					Latch Drive Plug Bottle	1 ea				25000	25000
407					Insert Flare Blue w/ Ash-Ble	1 ea				35000	35000
413					Port Wall Surfactants	15 ea				4000	60000
419					Rotating Head Control	1 ea				20000	20000

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 5-15-12 TIME SIGNED 0001 P.M. P.M.

SIGNED BY Burb Siler

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 21 SUBTOTAL 15302.70 PAULINE'S TAX 917.50 TOTAL 16,220.20

SWIFT OPERATOR Burb Siler APPROVAL _____

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

Thank You!



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

TICKET CONTINUATION

TICKET No. 217220

CUSTOMER *Murphy Dry Co.*

WELL *1-2 Rowan*

DATE *5-14-12*

PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				DATE	UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.	UM			
<i>325</i>		<i>2</i>				<i>Structural Concrete</i>	<i>225</i>	<i>SKS</i>	<i>2150</i>	<i>lbs</i>		<i>13.50</i>	<i>3037.50</i>
<i>276</i>		<i>2</i>				<i>Flux</i>	<i>57</i>	<i>lbs</i>				<i>2.00</i>	<i>114.00</i>
<i>283</i>		<i>2</i>				<i>Salt</i>	<i>1125</i>	<i>lbs</i>				<i>2.00</i>	<i>225.00</i>
<i>284</i>		<i>2</i>				<i>Alseal</i>	<i>1058</i>	<i>lbs</i>		<i>11</i>	<i>SKS</i>	<i>35.00</i>	<i>385.00</i>
<i>285</i>		<i>2</i>				<i>OPR-1</i>	<i>340</i>	<i>lbs</i>	<i>159</i>	<i>lbs</i>		<i>4.00</i>	<i>636.00</i>
<i>581</i>		<i>2</i>										<i>8.00</i>	<i>750.00</i>
<i>583</i>		<i>2</i>										<i>1.00</i>	<i>1295.80</i>
SERVICE CHARGE MILEAGE CHARGE TOTAL WEIGHT LOADED MILES							CUBIC FEET TON MILES						
							<i>Concrete</i>						
							<i>110</i>						
							<i>225 SKS</i>						
							<i>1295.195</i>						
CONTINUATION TOTAL													<i>6152.70</i>

JOB LOG

SWIFT Services, Inc.

DATE 5-14-12 PAGE NO. 17

CUSTOMER Mud Pie Dry Co WELL NO. 1-2 LEASE Ramar JOB TYPE Cement Logging TICKET NO. 21720

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								TD 4410'
5/14	2330					15 1/2 #9	5 1/2	In location w/ Float Equip
5/15	0010							Start casing to RB-4401'
								Insert Float Shoe w/ Auto-Feed
								LD Baffle - 55 - 18' @ 4383' = 10 7.3
								Cut 1-3-5 thru 16 to 45
								Cut Baskets to 6 1/2
								P.C # 1 @ 46 @ 2511' (CIR 1/2 way in Quia)
	0310							Drop fill up ball to 5 to out - Fin area casing
	0315							Rig cir & Rotate casing.
								Fin cir.
		5	15				300	KCL Flush
		5	12				300	Flo check-21
		5	5				300	KCL Spacer
		4 1/2					300	Start 125 SKS EA-2-cut
		4	42				100	Fin cut - Wash pump lines
		9					300	Drop L.D. Plug - Start Drapl
		9	70				400	Caught cut
0500		9	5 1/2	90	10 1/2		850 / 1000	Plug Down - Hold - Release & Hold
							0	
			9					Plug RH 30 SKS EA-2
			7					WHT 20 SKS EA-2
								Wash up & Backup
0545								Job Complete

Thanks
Dan, Brent & Doug