



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1140446
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: _____



1140446

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> _____ <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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 20, 2013

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

Re: ACO1
API 15-023-21358-00-00
Jones 'A' 1-17
NE/4 Sec.17-01S-37W
Cheyenne 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
 Jones A #1-17
 1050' FSL 2310' FWL
 Sec. 17-T1S-R37W
 3149' KB

Berexco
 Mears 'A' #2-9
 1970' FSL 635' FEL
 Sec. 9-T1S-R37W
 3254' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3110	+39	-7	3110	+39	-7	3208	+46
B/Anhydrite	3145	+4	-10	3142	+7	-7	3240	+14
Neva	3563	-414	-6	3560	-411	-3	3662	-408
Red Eagle	3627	-478	-6	3624	-475	-3	3726	-472
Foraker	3673	-524	-5	3671	-522	-3	3773	-519
Topeka	3896	-747	-4	3894	-745	-2	3997	-743
Oread	4031	-882	-6	4031	-882	-6	4130	-876
Lansing	4110	-961	-5	4108	-959	-3	4210	-956
Stark	4330	-1181	-5	4329	-1180	-4	4430	-1176
BKC	4385	-1236	-5	4385	-1236	-5	4485	-1231
Pawnee	4505	-1356	-5	4503	-1354	-3	4605	-1351
Cherokee	4595	-1446	-6	4592	-1443	-3	4694	-1440
Mississippi	NR			NR			NDE	
RTD	4680						4754	
LTD				4680			4760	

Jeff Christian

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT

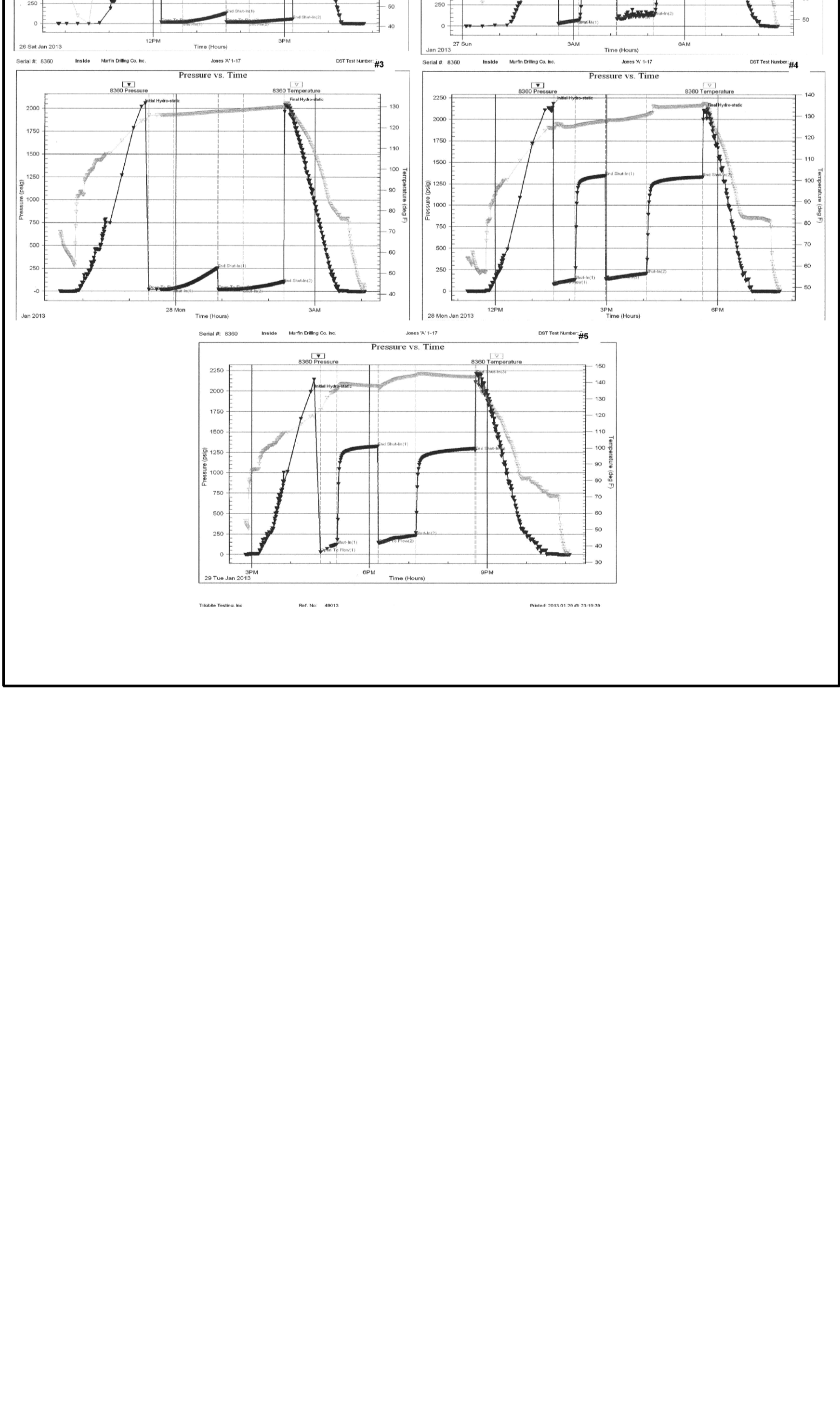
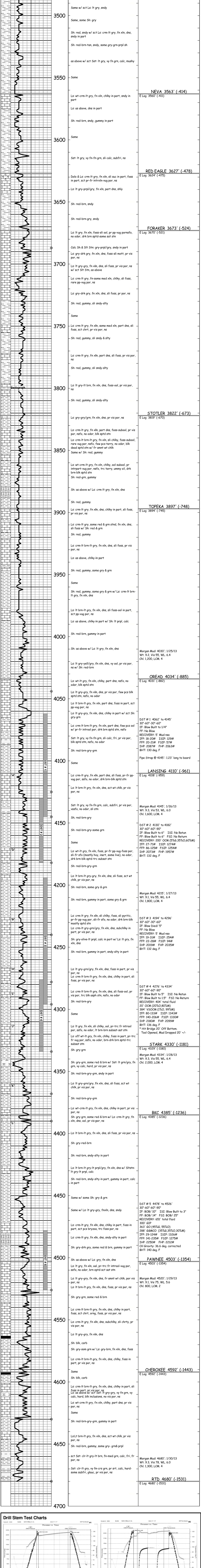
DRILLING TIME AND SAMPLE LOGS

OPERATOR	MURKIN DRILLING COMPANY	ELEVATIONS		
LEASE	JONES # 1-117	H#B	3149'	
LOCATION	1050' FINL & 2310' FEL	COL	3139'	
SEC	17	TWP	1 S	
COUNTY	CHEYENNE	STATE	KANSAS	
FIELD	WILL DECAT			
CONTRACTOR	COMPANY TOOL&S	RHO NO.	14	
DRILLING STARTED	01/27/2013	COMPLETED	01/20/2013	
MUD DISPLACED	3002'	MUD TYPE	CHEMICAL	
DRILLING TIME KEPT FROM	3450'	TO RTD		
SAMPLES SAVED FROM	3450'	TO RTD		
SUMMARY EXAMINED FROM	3450'	TO RTD		
GEOLOGICAL SUPERVISION FROM	3420'	TO RTD		
FORMATION NAME	TOP	LOG	DATUM	
ANHYDRITE	3100'	(439)	3107'	(442)
NEVA	3160'	(411)	3163'	(414)
FORAKER	3170'	(421)	3173'	(424)
TOPEKA	3194'	(748)	3196'	(747)
LANSTING	4108'	(959)	4110'	(961)
STARK	4329'	(1180)	4330'	(1181)
BKC	4388'	(1236)	4389'	(1236)
PAWNEE	4893'	(1384)	4895'	(1386)
CHEROKEE	4929'	(1443)	4929'	(1446)
TOTAL DEPTH	4860'	(1531)	4860'	(1531)

DATE	7:00 AM DEPTH	REMARKS
1-21-13	MIRT	SPUD 7:00 pm
1-22-13	228'	WOC dev 1/2 deg.
1-23-13	2000'	DRL6
1-24-13	3160'	DRL6
1-25-13	3779'	DRL6
1-26-13	4145'	CTCH prior to DST #1 dev 1 1/2 deg.
1-27-13	4182'	TOH w/ DST # 2
1-28-13	4300'	DRL6
1-29-13	4450'	DRL6
1-30-13	4600'	DRL6. RTD 4680' @ 11:00 am. dev. 2 deg. Finnish Logging 9:00 pm

Remarks
 5 1/2" production casing set to further test the Lansing / Kansas City and Pawnee formations.
 Electric log measurements correlate from about 3' high to even compared to rotary measurements.
 Sample tops adjusted to the electric log.
 Samples deposited at the Kansas Geological Society.
 Respectfully Submitted,
Jeff Christian
 Jeff Christian

LITH	DRILL TIME (MINFT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
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DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Jones 'A' #1-17

17-1s-37w Cheyenne,KS

Start Date: 2013.01.26 @ 09:50:00

End Date: 2013.01.26 @ 16:49:00

Job Ticket #: 49009 DST #: 1

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

Printed: 2013.02.04 @ 15:42:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne,KS

Jones 'A' #1-17

Job Ticket: 49009

DST#: 1

Test Start: 2013.01.26 @ 09:50:00

GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:11:00
 Time Test Ended: 16:49:00
 Interval: **4062.00 ft (KB) To 4145.00 ft (KB) (TVD)**
 Total Depth: 4145.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Wilbur Steinbeck
 Unit No: 40
 Reference Elevations: 3149.00 ft (KB)
 3139.00 ft (CF)
 KB to GR/CF: 10.00 ft

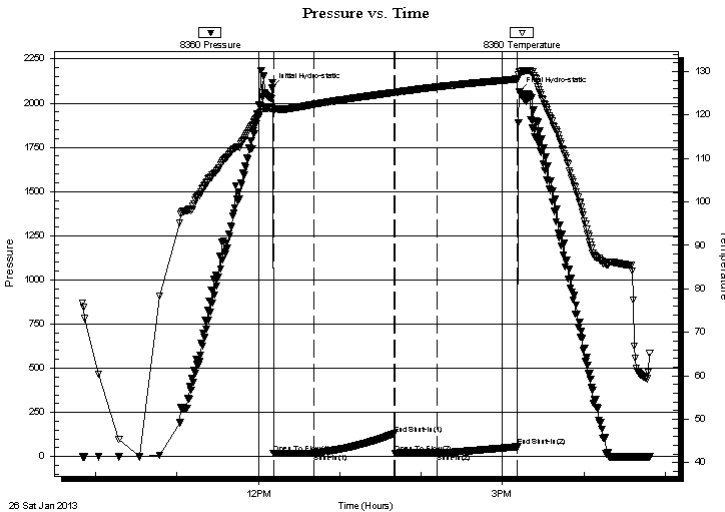
Serial #: 8360

Inside

Press @ Run Depth: 21.38 psig @ 4063.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.26 End Date: 2013.01.26 Last Calib.: 2013.01.26
 Start Time: 09:50:15 End Time: 16:49:00 Time On Btm: 2013.01.26 @ 12:10:00
 Time Off Btm: 2013.01.26 @ 15:12:30

TEST COMMENT: 30 IF; Weak blow built to 1/4"
 60 IS; No Blow
 30 FF; No Blow
 60 FS; No Blow

PRESSURE SUMMARY



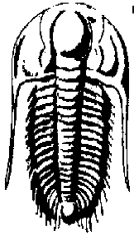
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.74	121.54	Initial Hydro-static
1	18.21	120.73	Open To Flow (1)
31	20.11	122.48	Shut-In(1)
90	129.18	125.18	End Shut-In(1)
91	20.29	125.14	Open To Flow (2)
122	21.38	126.48	Shut-In(2)
181	56.52	128.30	End Shut-In(2)
183	2063.47	129.96	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

17-1s-37w Cheyenne,KS

250 N Water STE 300
Wichita KS 67202

Jones 'A' #1-17

Job Ticket: 49009

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.01.26 @ 09:50:00

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:11:00

Time Test Ended: 16:49:00

Interval: 4062.00 ft (KB) To 4145.00 ft (KB) (TVD)

Total Depth: 4145.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 40

Reference Elevations: 3149.00 ft (KB)

3139.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8353

Outside

Press @ Run Depth: psig @ 4063.00 ft (KB)

Start Date: 2013.01.26

End Date:

2013.01.26

Capacity: 8000.00 psig

Last Calib.:

2013.01.26

Start Time: 09:50:15

End Time:

16:48:45

Time On Btm:

Time Off Btm:

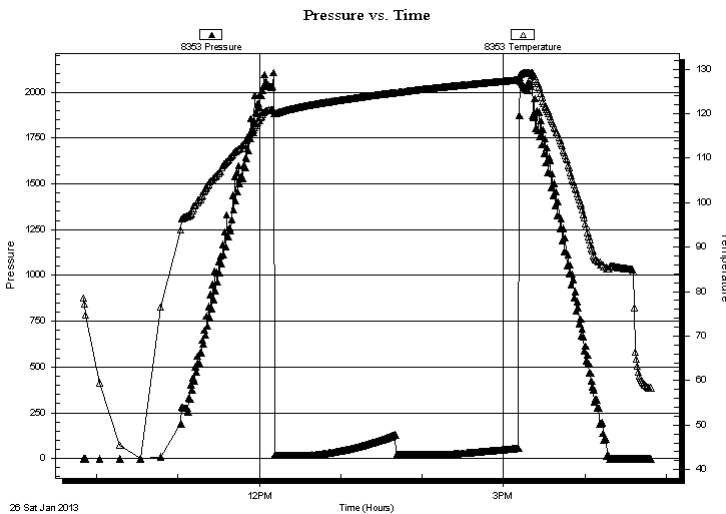
TEST COMMENT: 30 IF; Weak blow built to 1/4"

60 IS; No Blow

30 FF; No Blow

60 FS; No Blow

PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

17-1s-37w Cheyenne,KS

250 N Water STE 300
Wichita KS 67202

Jones 'A' #1-17

Job Ticket: 49009

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.01.26 @ 09:50:00

Tool Information

Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 51.85 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4062.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			4036.00	
Shut In Tool	5.00			4041.00	
Hydraulic tool	5.00			4046.00	
Jars	5.00			4051.00	
Safety Joint	2.00			4053.00	
Packer	5.00			4058.00	27.00 Bottom Of Top Packer
Packer	4.00			4062.00	
Stubb	1.00			4063.00	
Recorder	0.00	8360	Inside	4063.00	
Recorder	0.00	8353	Outside	4063.00	
Perforations	15.00			4078.00	
Change Over Sub	1.00			4079.00	
Drill Pipe	62.00			4141.00	
Change Over Sub	1.00			4142.00	
Bullnose	3.00			4145.00	83.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49009 **DST#: 1**
Test Start: 2013.01.26 @ 09:50:00

Mud and Cushion Information

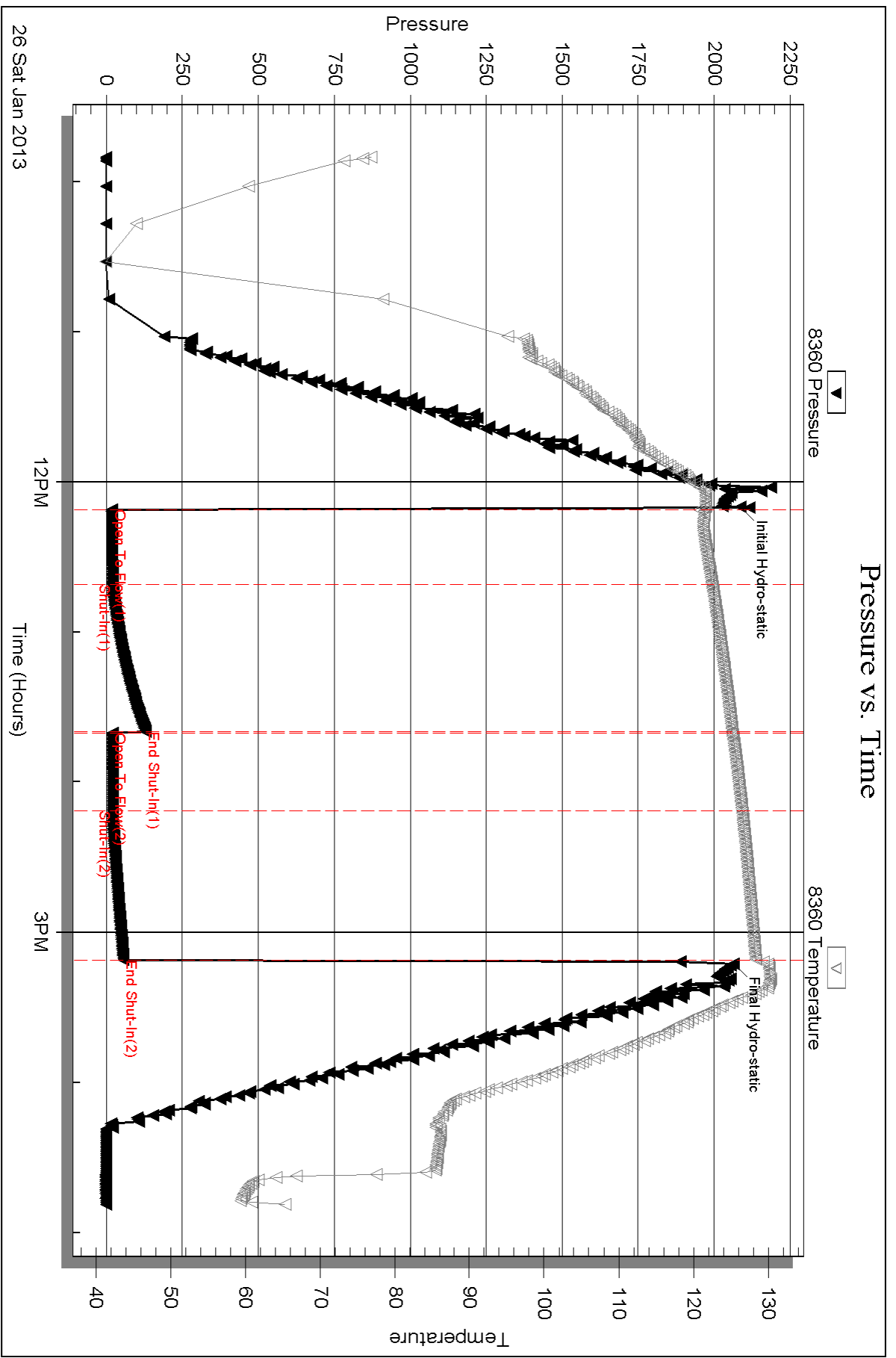
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

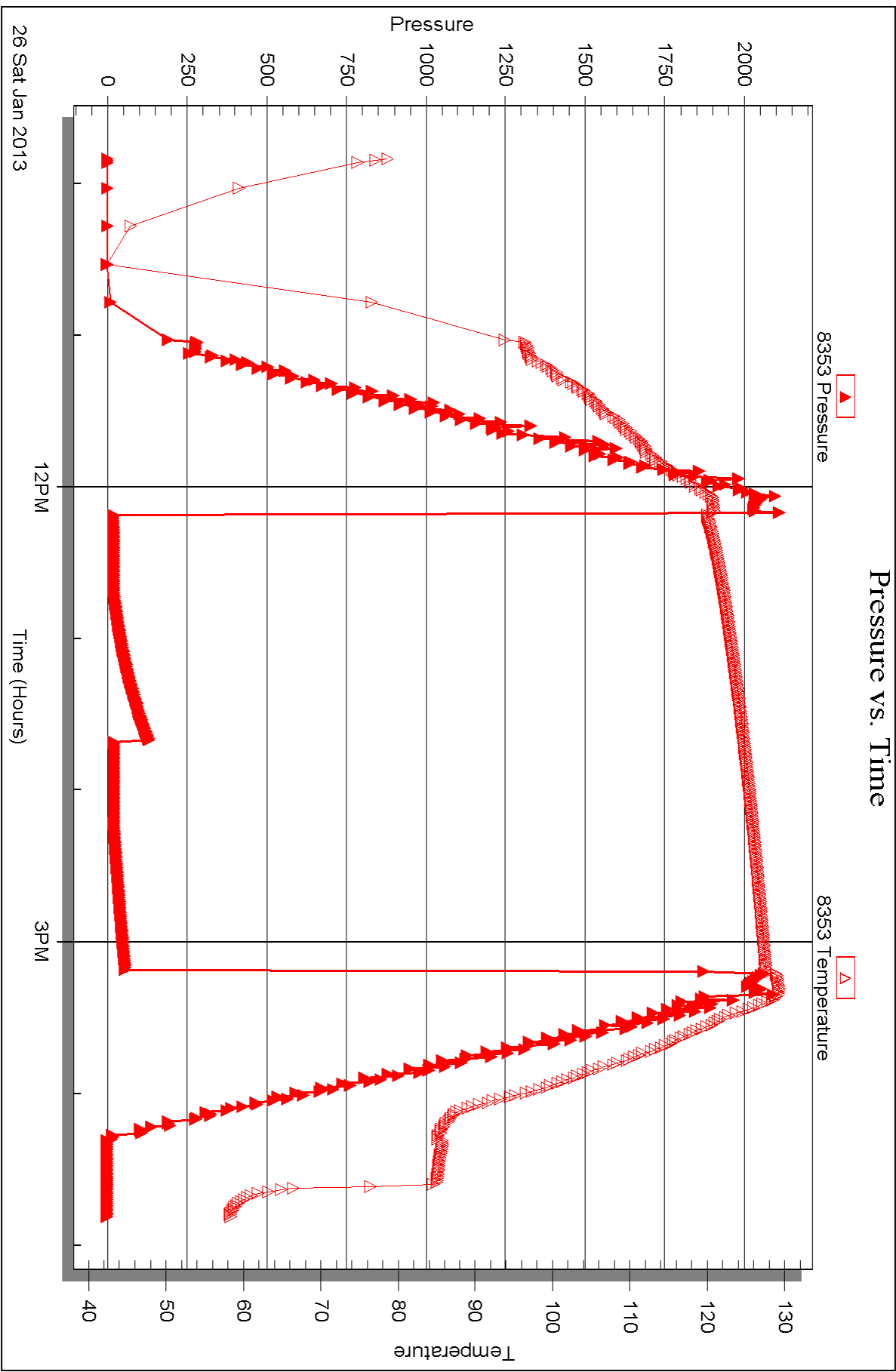


Serial #: 8353

Outside Murfin Drilling Co. Inc.

Jones 'A' #1-17

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Jones 'A' #1-17

17-1s-37w Cheyenne,KS

Start Date: 2013.01.27 @ 00:05:00

End Date: 2013.01.27 @ 08:31:15

Job Ticket #: 49010 DST #: 2

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

Printed: 2013.02.04 @ 15:41:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne,KS

Jones 'A' #1-17

Job Ticket: 49010

DST#: 2

Test Start: 2013.01.27 @ 00:05:00

GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:35:15
 Tester: Wilbur Steinbeck
 Time Test Ended: 08:31:15
 Unit No: 40
 Interval: **4130.00 ft (KB) To 4182.00 ft (KB) (TVD)**
 Reference Elevations: 3149.00 ft (KB)
 Total Depth: 4182.00 ft (KB) (TVD)
 3139.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 10.00 ft

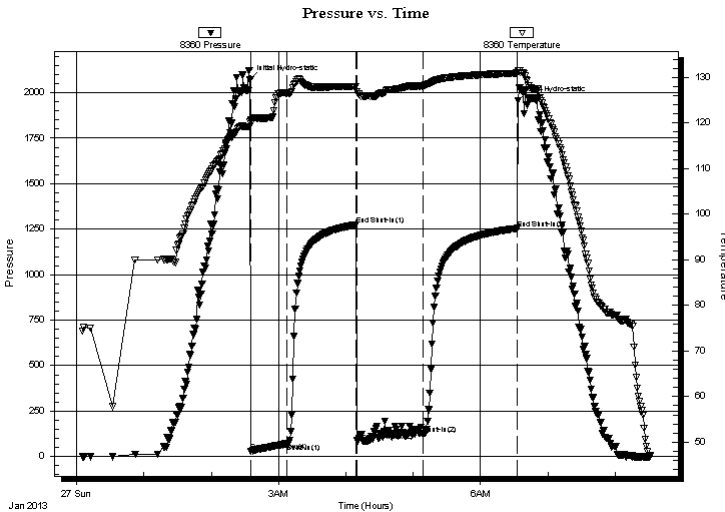
Serial #: 8360

Inside

Press @ Run Depth: 125.21 psig @ 4131.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.27 End Date: 2013.01.27 Last Calib.: 2013.01.27
 Start Time: 00:05:15 End Time: 08:31:15 Time On Btm: 2013.01.27 @ 02:34:30
 Time Off Btm: 2013.01.27 @ 06:33:45

TEST COMMENT: 30 IF; Built to 6"
 60 IS; No Blow
 60 FF; Built to 6"
 90 FS; No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.72	120.27	Initial Hydro-static
1	27.47	120.50	Open To Flow (1)
33	71.46	126.58	Shut-In(1)
95	1273.81	127.96	End Shut-In(1)
96	85.91	126.98	Open To Flow (2)
155	125.21	128.20	Shut-In(2)
239	1254.48	130.95	End Shut-In(2)
240	1956.98	131.56	Final Hydro-static

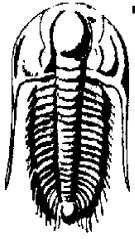
Recovery

Length (ft)	Description	Volume (bbl)
200.00	OCM 5%G 35%O 60%M	0.98

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

17-1s-37w Cheyenne,KS

250 N Water STE 300
Wichita KS 67202

Jones 'A' #1-17

Job Ticket: 49010

DST#: 2

ATTN: Jeff Christian

Test Start: 2013.01.27 @ 00:05:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:35:15

Time Test Ended: 08:31:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 4130.00 ft (KB) To 4182.00 ft (KB) (TVD)

Total Depth: 4182.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3149.00 ft (KB)

3139.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8353 Outside

Press @RunDepth: psig @ 4131.00 ft (KB)

Start Date: 2013.01.27 End Date: 2013.01.27

Start Time: 00:05:15 End Time: 08:31:15

Capacity: 8000.00 psig

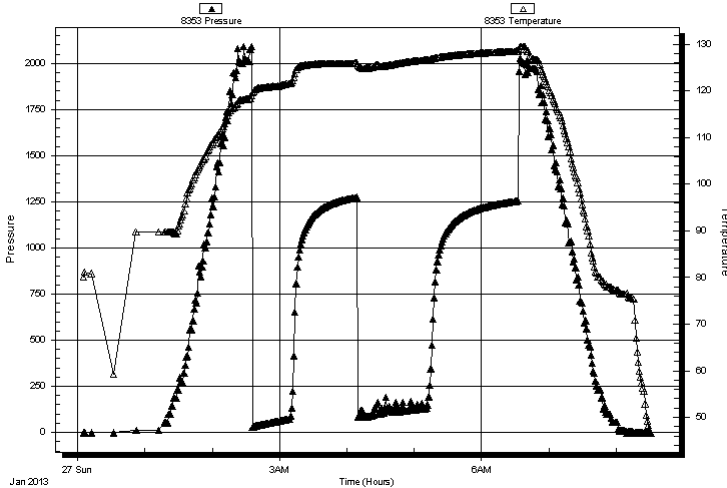
Last Calib.: 2013.01.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF; Built to 6"
60 ISI; No Blow
60 FF; Built to 6"
90 FSI; No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
200.00	OCM 5%G 35%O 60%M	0.98

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49010 **DST#: 2**
Test Start: 2013.01.27 @ 00:05:00

Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 52.90 bbl</u>	Tool Chased 20.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4130.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4104.00	
Shut In Tool	5.00			4109.00	
Hydraulic tool	5.00			4114.00	
Jars	5.00			4119.00	
Safety Joint	2.00			4121.00	
Packer	5.00			4126.00	27.00 Bottom Of Top Packer
Packer	4.00			4130.00	
Stubb	1.00			4131.00	
Recorder	0.00	8360	Inside	4131.00	
Recorder	0.00	8353	Outside	4131.00	
Perforations	15.00			4146.00	
Change Over Sub	1.00			4147.00	
Drill Pipe	31.00			4178.00	
Change Over Sub	1.00			4179.00	
Bullnose	3.00			4182.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49010 **DST#: 2**
Test Start: 2013.01.27 @ 00:05:00

Mud and Cushion Information

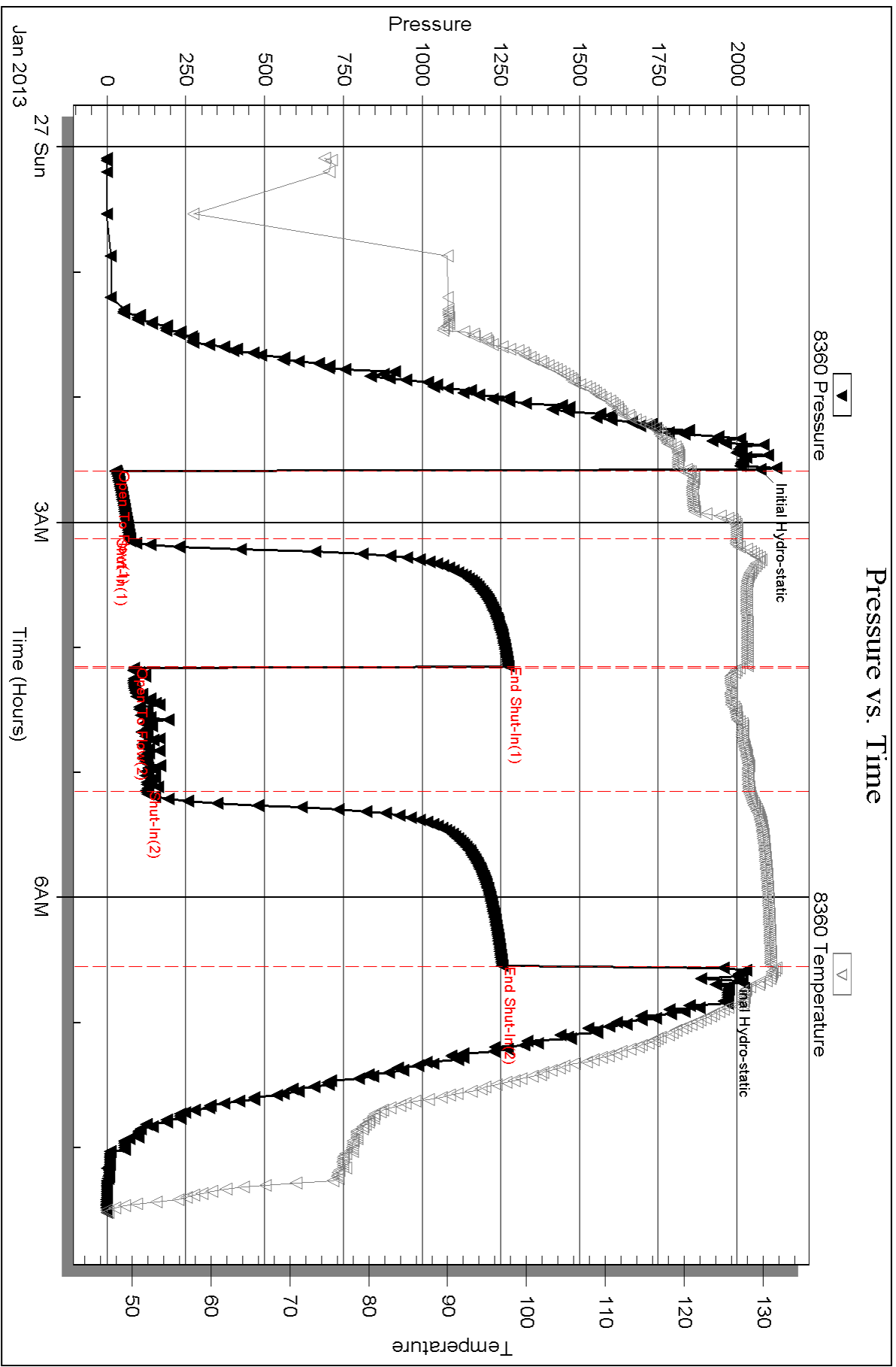
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: inches			

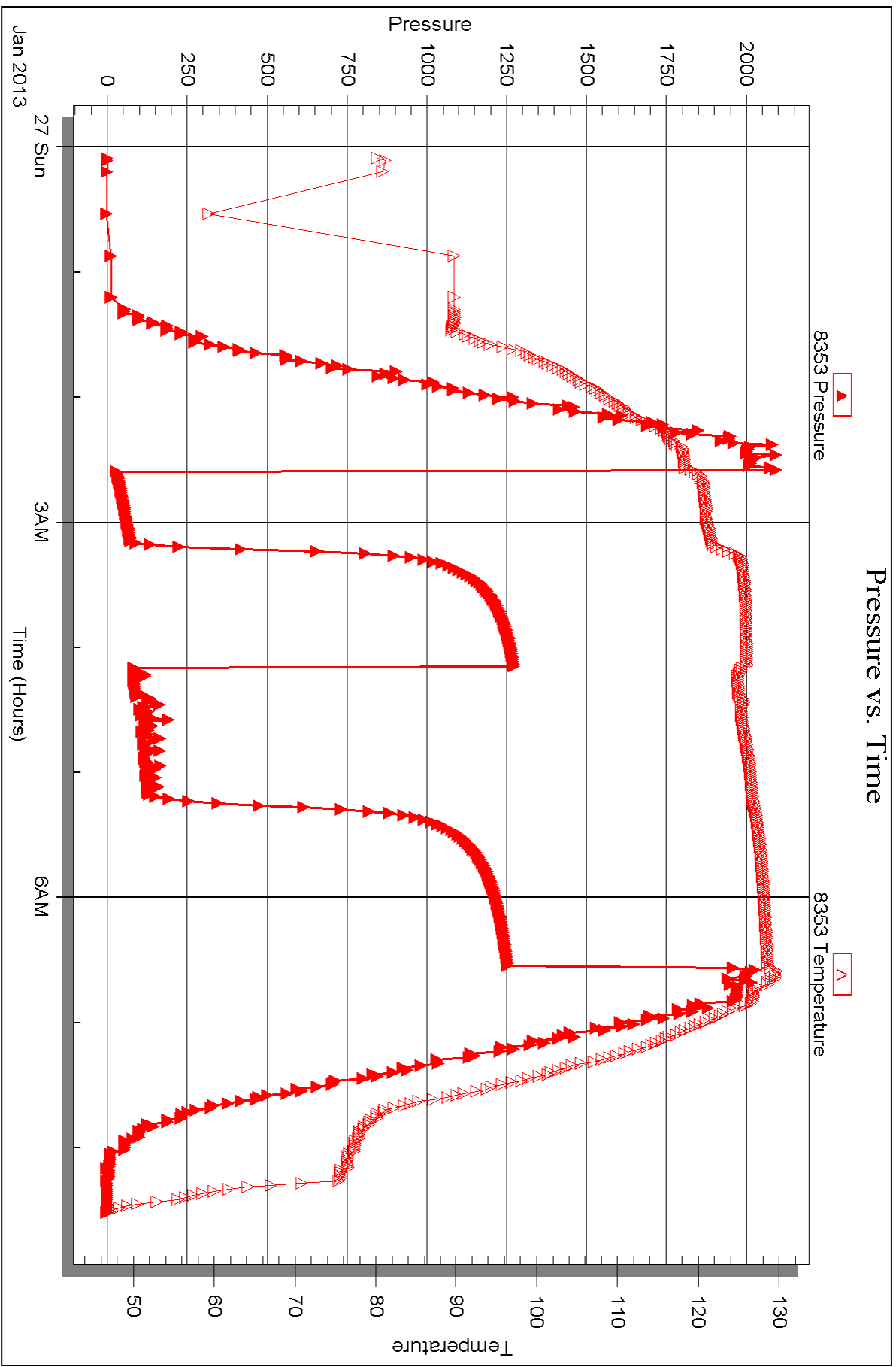
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	OCM 5%G 35%O 60%M	0.984

Total Length: 200.00 ft Total Volume: 0.984 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. Inc.**

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Jones 'A' #1-17

17-1s-37w Cheyenne,KS

Start Date: 2013.01.27 @ 21:30:15

End Date: 2013.01.28 @ 04:05:00

Job Ticket #: 49011 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.04 @ 15:38:02

Murfin Drilling Co. Inc.

17-1s-37w Cheyenne,KS

Jones 'A' #1-17

DST # 3

LKC,G,H,I

2013.01.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne,KS

Jones 'A' #1-17

Job Ticket: 49011

DST#: 3

Test Start: 2013.01.27 @ 21:30:15

GENERAL INFORMATION:

Formation: **LKC G,H,I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 23:19:30
 Tester: Wilbur Steinbeck
 Time Test Ended: 04:05:00
 Unit No: 40
 Interval: **4194.00 ft (KB) To 4296.00 ft (KB) (TVD)**
 Reference Elevations: 3149.00 ft (KB)
 Total Depth: 4296.00 ft (KB) (TVD)
 3139.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 10.00 ft

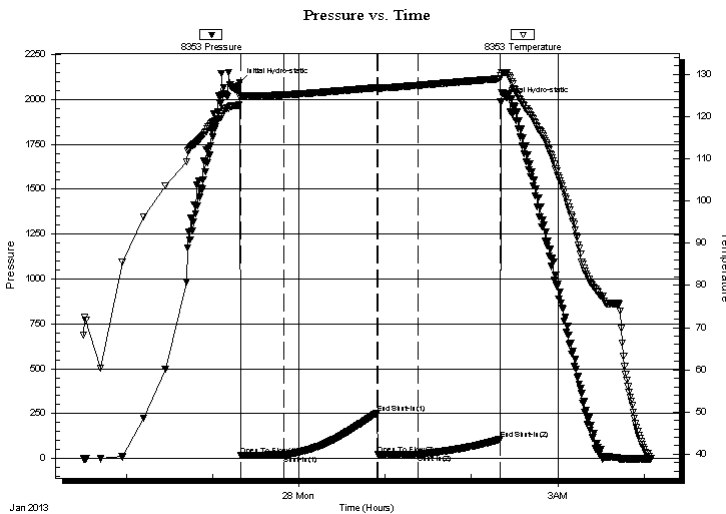
Serial #: 8353

Outside

Press @ Run Depth: 23.52 psig @ 4195.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.27 End Date: 2013.01.28 Last Calib.: 2013.01.28
 Start Time: 21:30:15 End Time: 04:05:00 Time On Btm: 2013.01.27 @ 23:18:45
 Time Off Btm: 2013.01.28 @ 02:20:15

TEST COMMENT: 30 IF; Weak Surface blow died in 5 min
 60 IS; No Blow
 30 FF; No Blow
 60 FS; No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.23	124.67	Initial Hydro-static
1	18.00	124.83	Open To Flow (1)
31	20.29	125.13	Shut-In(1)
96	253.89	126.83	End Shut-In(1)
96	21.07	126.81	Open To Flow (2)
124	23.52	127.37	Shut-In(2)
181	105.87	128.95	End Shut-In(2)
182	1985.34	129.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne,KS

Jones 'A' #1-17

Job Ticket: 49011

DST#: 3

Test Start: 2013.01.27 @ 21:30:15

GENERAL INFORMATION:

Formation: **LKC G,H,I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:19:30
 Time Test Ended: 04:05:00
 Interval: **4194.00 ft (KB) To 4296.00 ft (KB) (TVD)**
 Total Depth: 4296.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Wilbur Steinbeck
 Unit No: 40
 Reference Elevations: 3149.00 ft (KB)
 3139.00 ft (CF)
 KB to GR/CF: 10.00 ft

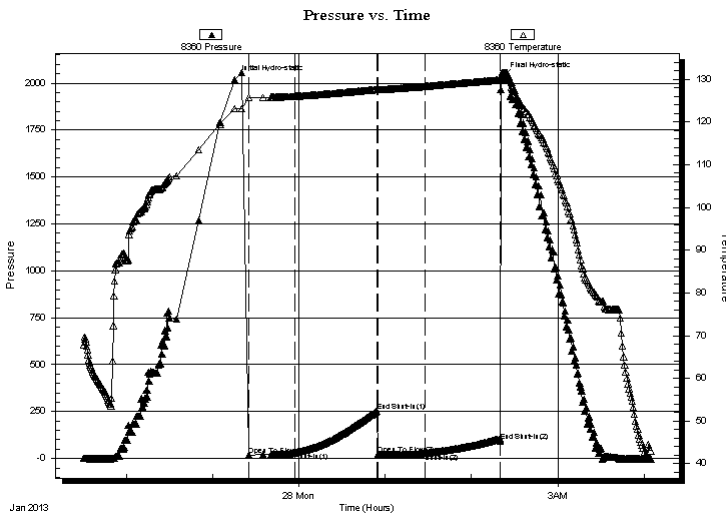
Serial #: 8360

Inside

Press @ Run Depth: 94.14 psig @ 4195.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.27 End Date: 2013.01.28 Last Calib.: 2013.01.28
 Start Time: 21:30:10 End Time: 04:05:00 Time On Btm: 2013.01.27 @ 23:15:00
 Time Off Btm: 2013.01.28 @ 02:21:45

TEST COMMENT: 30 IF; Weak Surface blow died in 5 min
 60 IS; No Blow
 30 FF; No Blow
 60 FS; No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.16	123.11	Initial Hydro-static
10	19.01	125.78	Open To Flow (1)
42	30.85	126.00	Shut-In(1)
100	253.66	127.60	End Shut-In(1)
100	21.77	127.51	Open To Flow (2)
133	28.04	128.31	Shut-In(2)
185	94.14	129.83	End Shut-In(2)
187	2034.81	131.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

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. Inc.

17-1s-37w Cheyenne,KS

250 N Water STE 300
Wichita KS 67202

Jones 'A' #1-17

Job Ticket: 49011

DST#: 3

ATTN: Jeff Christian

Test Start: 2013.01.27 @ 21:30:15

Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.79 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4194.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	129.00 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			4168.00	
Shut In Tool	5.00			4173.00	
Hydraulic tool	5.00			4178.00	
Jars	5.00			4183.00	
Safety Joint	2.00			4185.00	
Packer	5.00			4190.00	27.00 Bottom Of Top Packer
Packer	4.00			4194.00	
Stubb	1.00			4195.00	
Recorder	0.00	8360	Inside	4195.00	
Recorder	0.00	8353	Outside	4195.00	
Perforations	32.00			4227.00	
Change Over Sub	1.00			4228.00	
Drill Pipe	64.00			4292.00	
Change Over Sub	1.00			4293.00	
Bullnose	3.00			4296.00	102.00 Bottom Packers & Anchor

Total Tool Length: 129.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49011 **DST#: 3**
Test Start: 2013.01.27 @ 21:30:15

Mud and Cushion Information

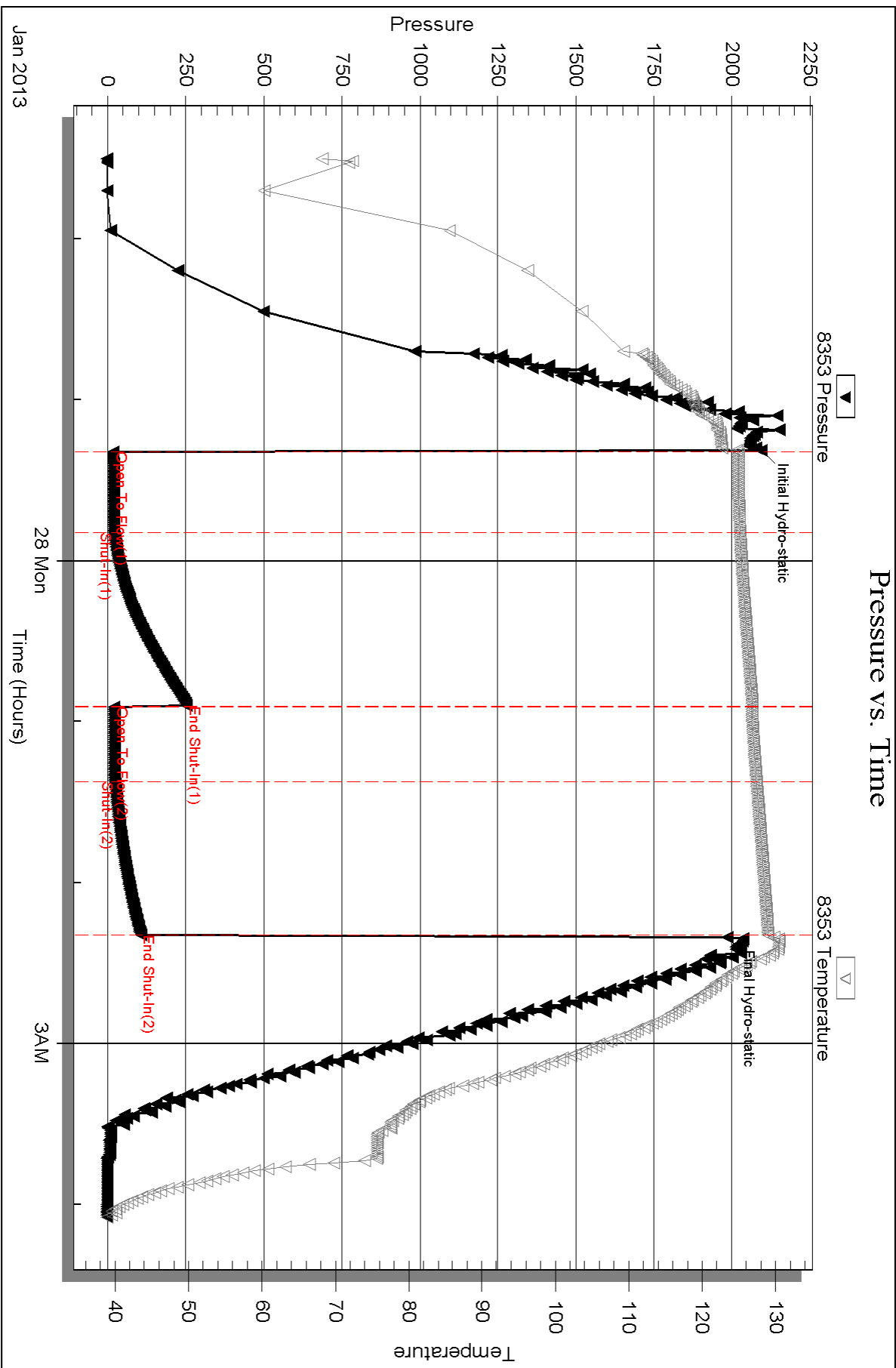
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

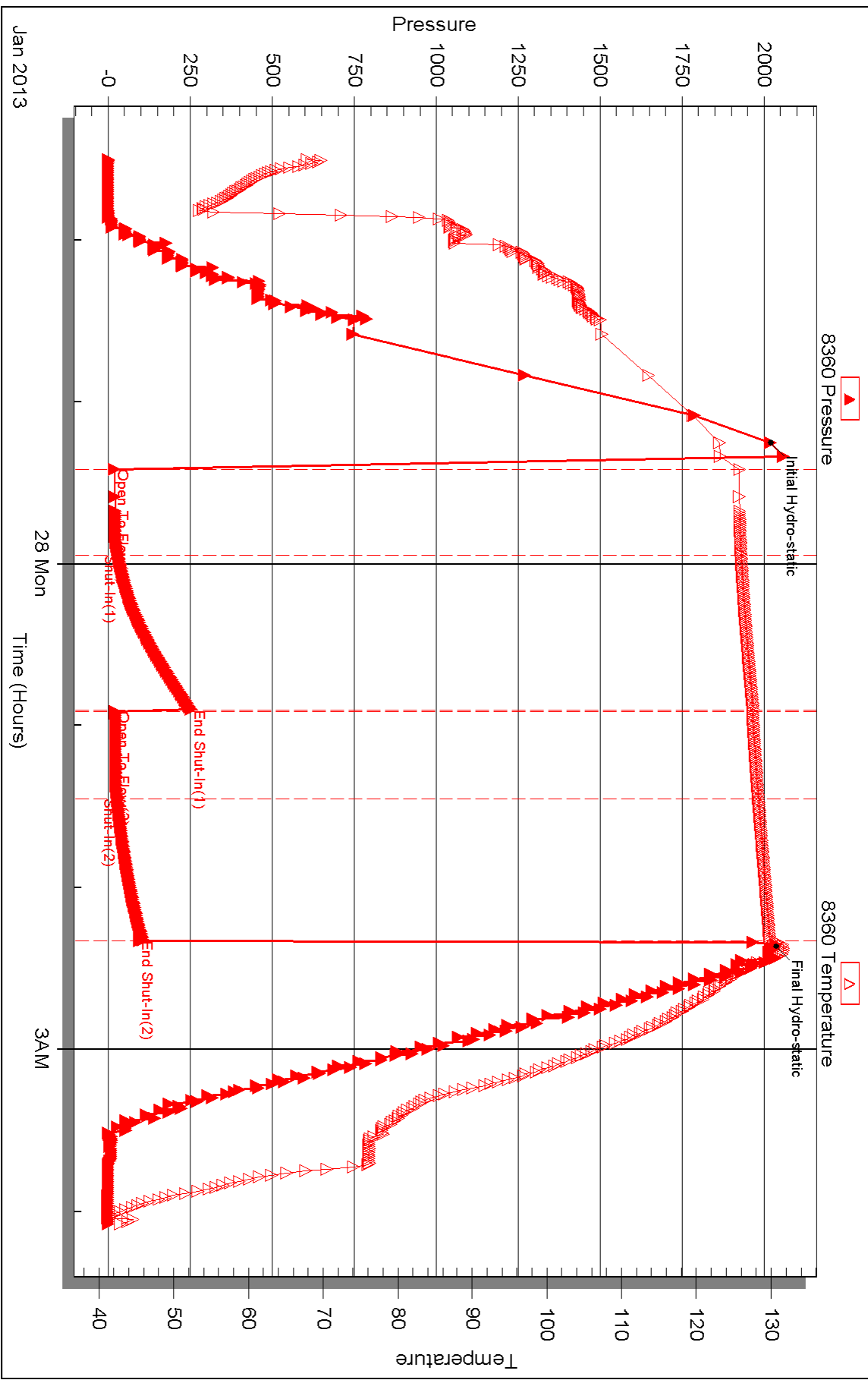
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Jones 'A' #1-17

17-1s-37w Cheyenne,KS

Start Date: 2013.01.28 @ 11:15:00

End Date: 2013.01.28 @ 19:40:15

Job Ticket #: 49012 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.04 @ 15:36:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne,KS

Jones 'A' #1-17

Job Ticket: 49012

DST#: 4

Test Start: 2013.01.28 @ 11:15:00

GENERAL INFORMATION:

Formation: **LANJ**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:34:30
 Time Test Ended: 19:40:15
 Interval: **4276.00 ft (KB) To 4334.00 ft (KB) (TVD)**
 Total Depth: 4334.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Wilbur Steinbeck
 Unit No: 40
 Reference Elevations: 3149.00 ft (KB)
 3139.00 ft (CF)
 KB to GR/CF: 10.00 ft

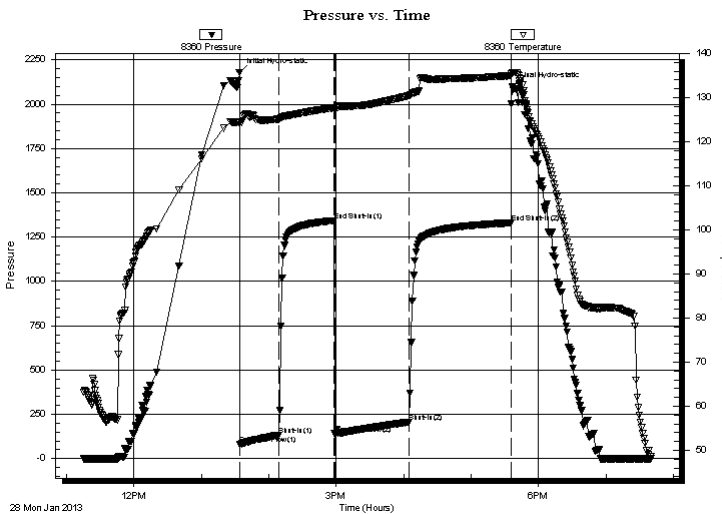
Serial #: 8360

Inside

Press @ Run Depth: 205.61 psig @ 4277.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.28 End Date: 2013.01.28 Last Calib.: 2013.01.28
 Start Time: 11:15:10 End Time: 19:40:15 Time On Btm: 2013.01.28 @ 13:33:45
 Time Off Btm: 2013.01.28 @ 17:36:45

TEST COMMENT: 30 IF; Built to 5"
 60 IS; No Blow
 60 FF; Built to 1 1/2"
 90 FS; No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.54	124.44	Initial Hydro-static
1	80.42	124.30	Open To Flow (1)
36	133.18	125.11	Shut-In(1)
84	1343.10	127.67	End Shut-In(1)
85	139.64	127.25	Open To Flow (2)
151	205.61	130.43	Shut-In(2)
242	1330.46	134.96	End Shut-In(2)
243	2099.37	135.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 20%O 80%M	0.10
384.00	OSM 1%O 99%M	1.89

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

17-1s-37w Cheyenne, KS

250 N Water STE 300
Wichita KS 67202

Jones 'A' #1-17

Job Ticket: 49012

DST#: 4

ATTN: Jeff Christian

Test Start: 2013.01.28 @ 11:15:00

GENERAL INFORMATION:

Formation: **LANJ**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:34:30
 Time Test Ended: 19:40:15
 Interval: **4276.00 ft (KB) To 4334.00 ft (KB) (TVD)**
 Total Depth: 4334.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: Wilbur Steinbeck
 Unit No: 40
 Reference Elevations: 3149.00 ft (KB)
 3139.00 ft (CF)
 KB to GR/CF: 10.00 ft

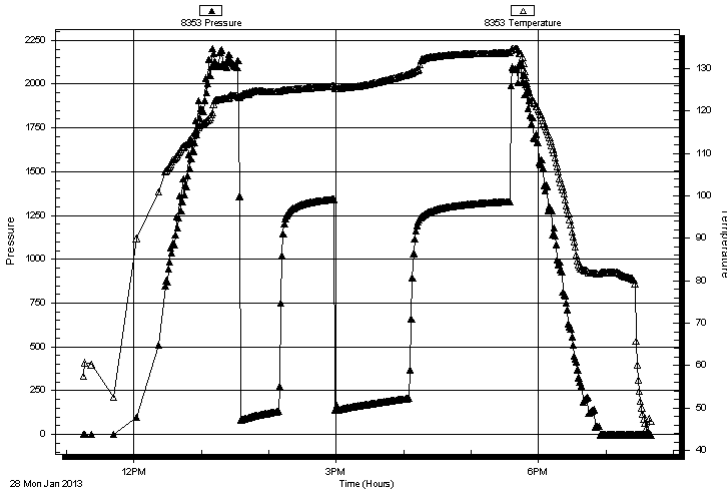
Serial #: 8353

Outside

Press @ Run Depth: psig @ 4277.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.28 End Date: 2013.01.28 Last Calib.: 2013.01.28
 Start Time: 11:15:15 End Time: 19:40:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF; Built to 5"
 60 IS; No Blow
 60 FF; Built to 1 1/2"
 90 FS; No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
20.00	OCM 20%O 80%M	0.10
384.00	OSM 1%O 99%M	1.89

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

17-1s-37w Cheyenne,KS

250 N Water STE 300
Wichita KS 67202

Jones 'A' #1-17

Job Ticket: 49012

DST#: 4

ATTN: Jeff Christian

Test Start: 2013.01.28 @ 11:15:00

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 55.11 bbl</u>	Tool Chased	15.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4276.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4250.00	
Shut In Tool	5.00			4255.00	
Hydraulic tool	5.00			4260.00	
Jars	5.00			4265.00	
Safety Joint	2.00			4267.00	
Packer	5.00			4272.00	27.00 Bottom Of Top Packer
Packer	4.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	8360	Inside	4277.00	
Recorder	0.00	8353	Outside	4277.00	
Perforations	20.00			4297.00	
Change Over Sub	1.00			4298.00	
Drill Pipe	32.00			4330.00	
Change Over Sub	1.00			4331.00	
Bullnose	3.00			4334.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49012 **DST#: 4**
Test Start: 2013.01.28 @ 11:15:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 20%O 80%M	0.098
384.00	OSM 1%O 99%M	1.888

Total Length: 404.00 ft Total Volume: 1.986 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

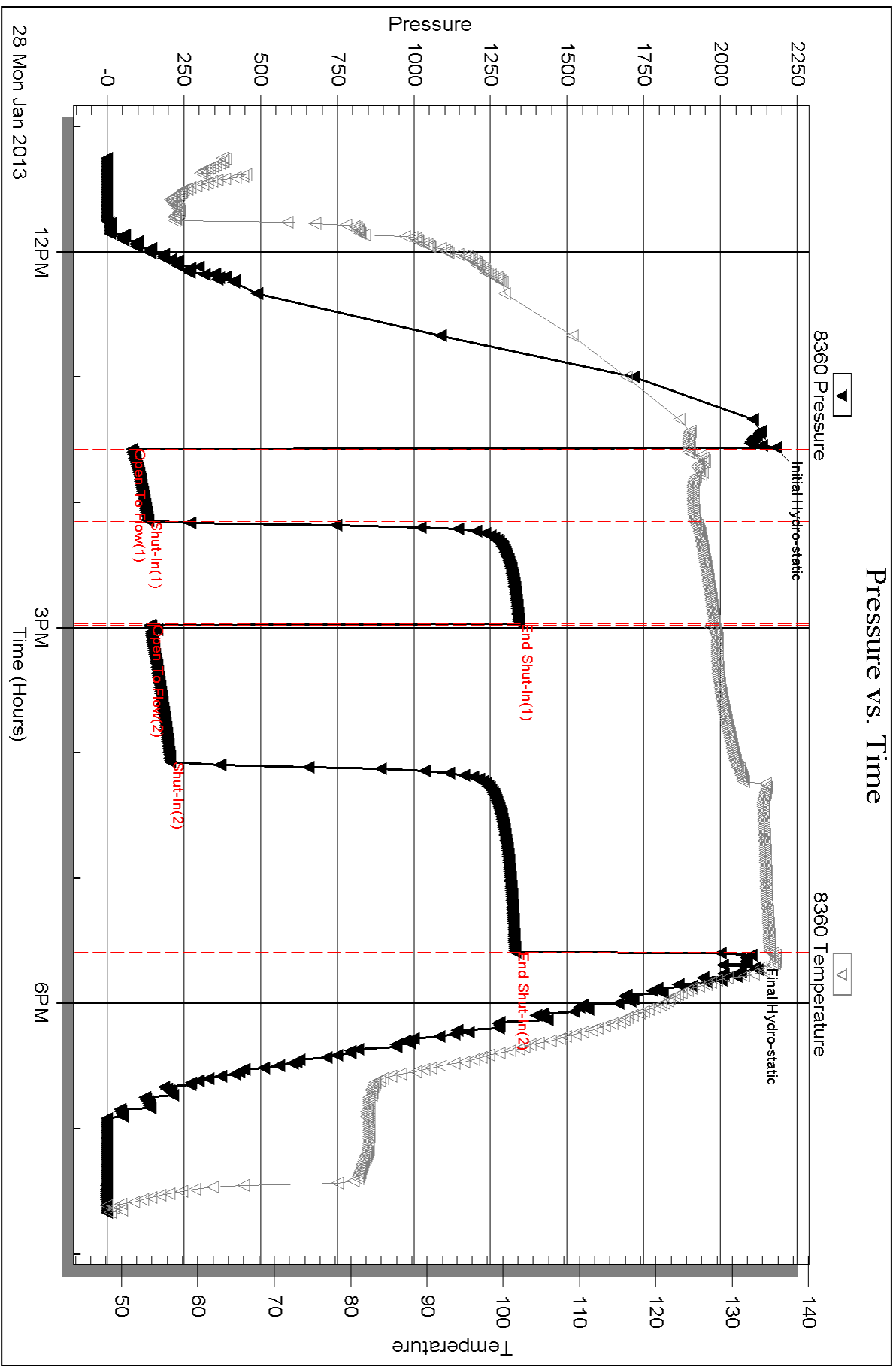
Serial #: 8360

Inside

Murfin Drilling Co. Inc.

Jones 'A' #1-17

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 49012

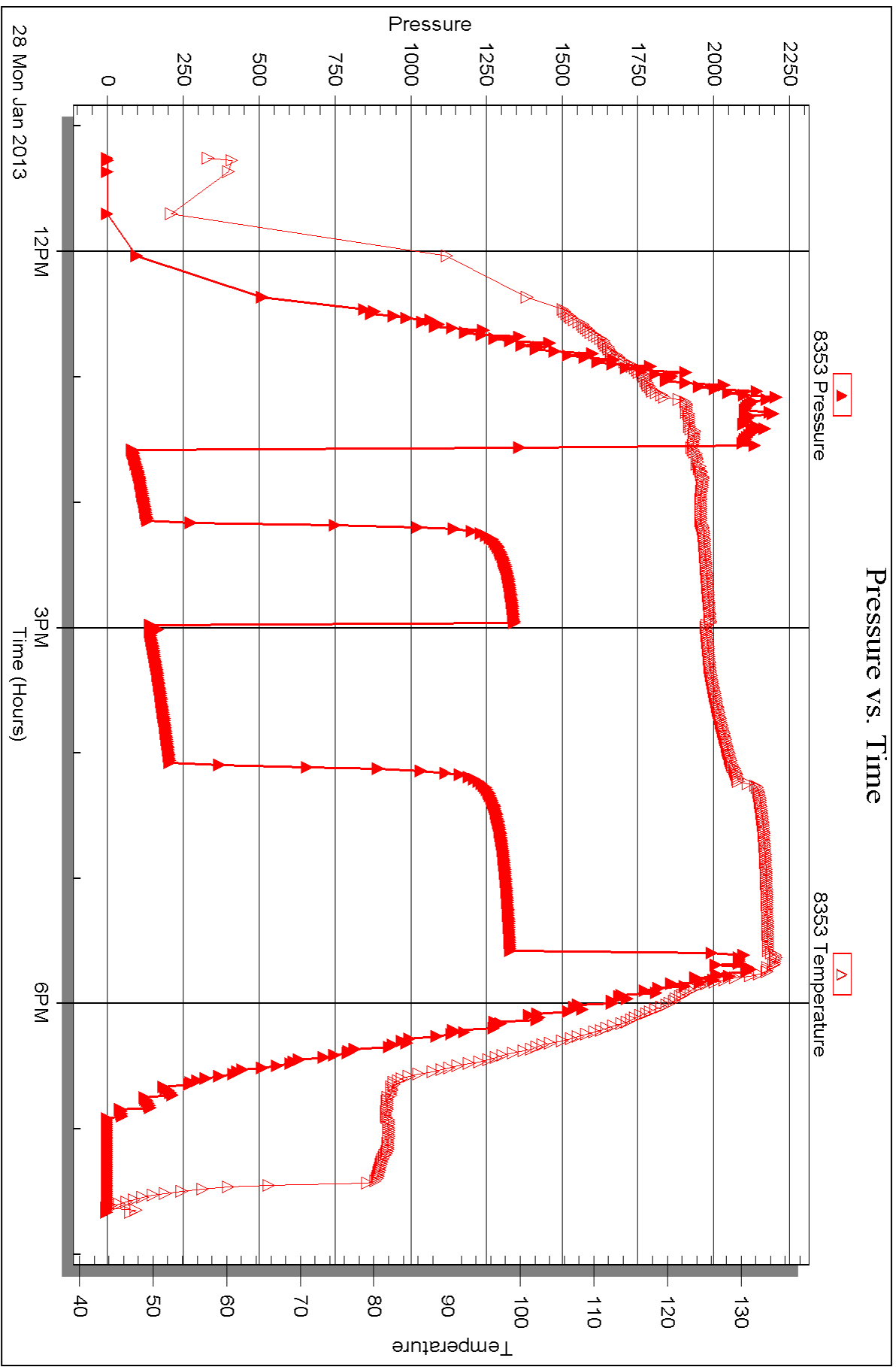
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Serial #: 8353

Outside Murfin Drilling Co. Inc.

Jones 'A' #1-17

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 49012

Printed: 2013.02.04 @ 15:36:54



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita KS 67202

ATTN: Jeff Christian

Jones 'A' #1-17

17-1s-37w Cheyenne,KS

Start Date: 2013.01.29 @ 14:50:15

End Date: 2013.01.29 @ 23:05:45

Job Ticket #: 49013 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.04 @ 15:15:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne, KS

Jones 'A' #1-17

Job Ticket: 49013

DST#: 5

Test Start: 2013.01.29 @ 14:50:15

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:39:30
 Time Test Ended: 23:05:45
 Interval: **4478.00 ft (KB) To 4526.00 ft (KB) (TVD)**
 Total Depth: 4526.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Wilbur Steinbeck
 Unit No: 40
 Reference Elevations: 3149.00 ft (KB)
 3139.00 ft (CF)
 KB to GR/CF: 10.00 ft

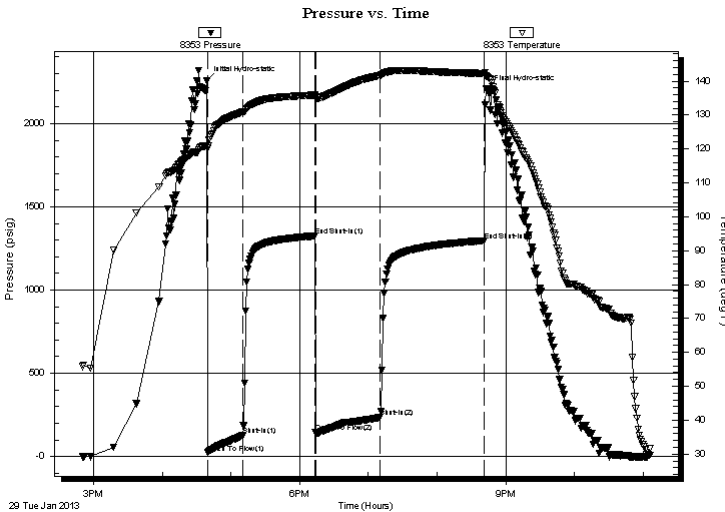
Serial #: 8353

Outside

Press @ Run Depth: 234.32 psig @ 4479.00 ft (KB)
 Start Date: 2013.01.29 End Date: 2013.01.29
 Start Time: 14:50:15 End Time: 23:05:45
 Capacity: 8000.00 psig
 Last Calib.: 2013.01.29
 Time On Btm: 2013.01.29 @ 16:38:45
 Time Off Btm: 2013.01.29 @ 20:43:15

TEST COMMENT: 30 IF; BOB in 10 min
 60 IS; Built to 3"
 60 FF; BOB in 14 min
 90 FS; BOB in 25 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.81	121.03	Initial Hydro-static
1	21.14	120.22	Open To Flow (1)
32	124.33	130.84	Shut-In(1)
95	1324.85	135.88	End Shut-In(1)
95	142.78	135.34	Open To Flow (2)
152	234.32	141.72	Shut-In(2)
243	1296.49	142.27	End Shut-In(2)
245	2202.79	141.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
288.00	MGCO 30%M 35%G 35%O	1.42
363.00	GO 45%G 55%O 300' GIP	2.85

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

17-1s-37w Cheyenne, KS

Jones 'A' #1-17

Job Ticket: 49013

DST#: 5

Test Start: 2013.01.29 @ 14:50:15

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:39:30
 Time Test Ended: 23:05:45
 Interval: **4478.00 ft (KB) To 4526.00 ft (KB) (TVD)**
 Total Depth: 4526.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Wilbur Steinbeck
 Unit No: 40
 Reference Elevations: 3149.00 ft (KB)
 3139.00 ft (CF)
 KB to GR/CF: 10.00 ft

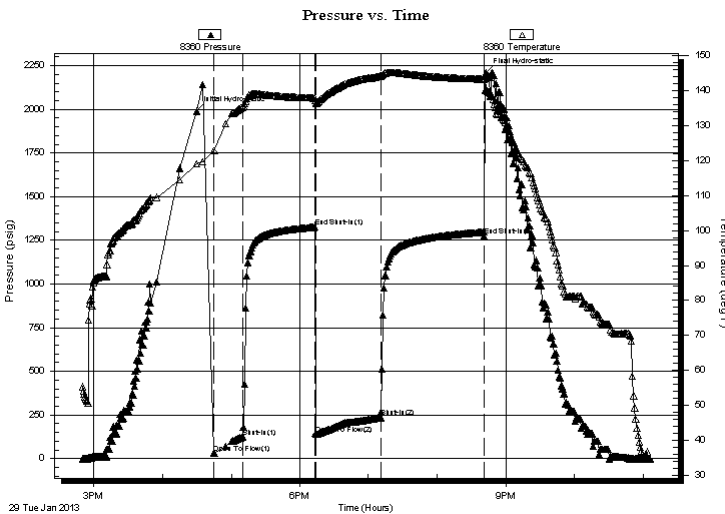
Serial #: 8360

Inside

Press @ Run Depth: 1274.53 psig @ 4479.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.29 End Date: 2013.01.29 Last Calib.: 2013.01.29
 Start Time: 14:50:10 End Time: 23:05:45 Time On Btm: 2013.01.29 @ 16:30:00
 Time Off Btm: 2013.01.29 @ 20:42:45

TEST COMMENT: 30 IF; BOB in 10 min
 60 IS; Built to 3"
 60 FF; BOB in 14 min
 90 FS; BOB in 25 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.09	119.16	Initial Hydro-static
15	28.69	122.95	Open To Flow (1)
40	124.38	135.35	Shut-In(1)
103	1325.56	137.97	End Shut-In(1)
105	140.58	136.32	Open To Flow (2)
161	234.77	144.27	Shut-In(2)
252	1274.53	143.35	End Shut-In(2)
253	2211.73	140.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
288.00	MGCO 30%M 35%G 35%O	1.42
363.00	GO 45%G 55%O 300' GIP	2.85

* 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. Inc.
250 N Water STE 300
Wichita KS 67202
ATTN: Jeff Christian

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49013 **DST#: 5**
Test Start: 2013.01.29 @ 14:50:15

Tool Information

Drill Pipe:	Length: 3932.00 ft	Diameter: 3.80 inches	Volume: 55.16 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: 534.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 57.79 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4478.00 ft			Final 72000.00 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
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4452.00	
Shut In Tool	5.00			4457.00	
Hydraulic tool	5.00			4462.00	
Jars	5.00			4467.00	
Safety Joint	2.00			4469.00	
Packer	5.00			4474.00	27.00 Bottom Of Top Packer
Packer	4.00			4478.00	
Stubb	1.00			4479.00	
Recorder	0.00	8360	Inside	4479.00	
Recorder	0.00	8353	Outside	4479.00	
Perforations	10.00			4489.00	
Change Over Sub	1.00			4490.00	
Drill Pipe	32.00			4522.00	
Change Over Sub	1.00			4523.00	
Bullnose	3.00			4526.00	48.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

17-1s-37w Cheyenne,KS
Jones 'A' #1-17
Job Ticket: 49013 **DST#: 5**
Test Start: 2013.01.29 @ 14:50:15

Mud and Cushion Information

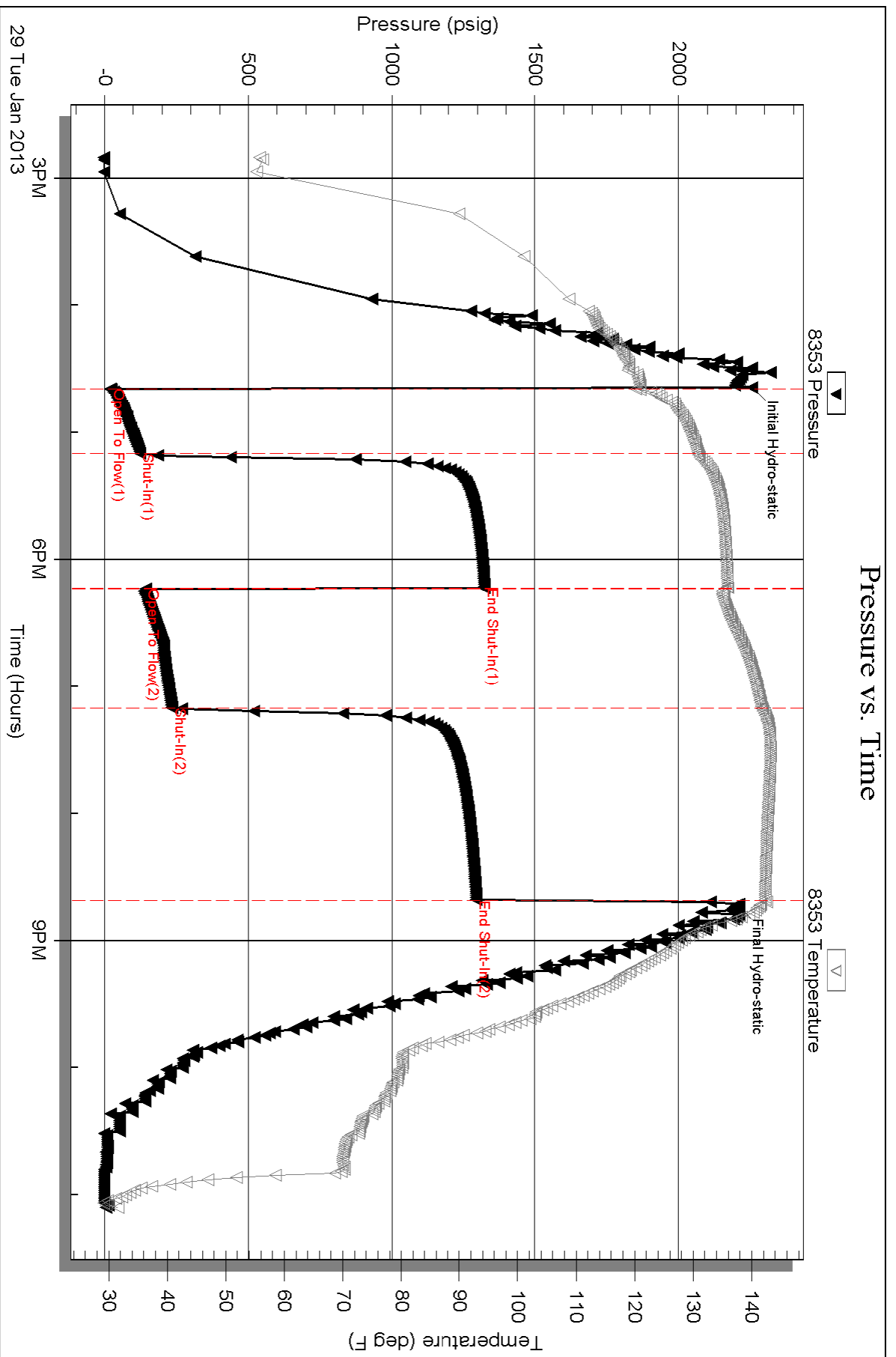
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

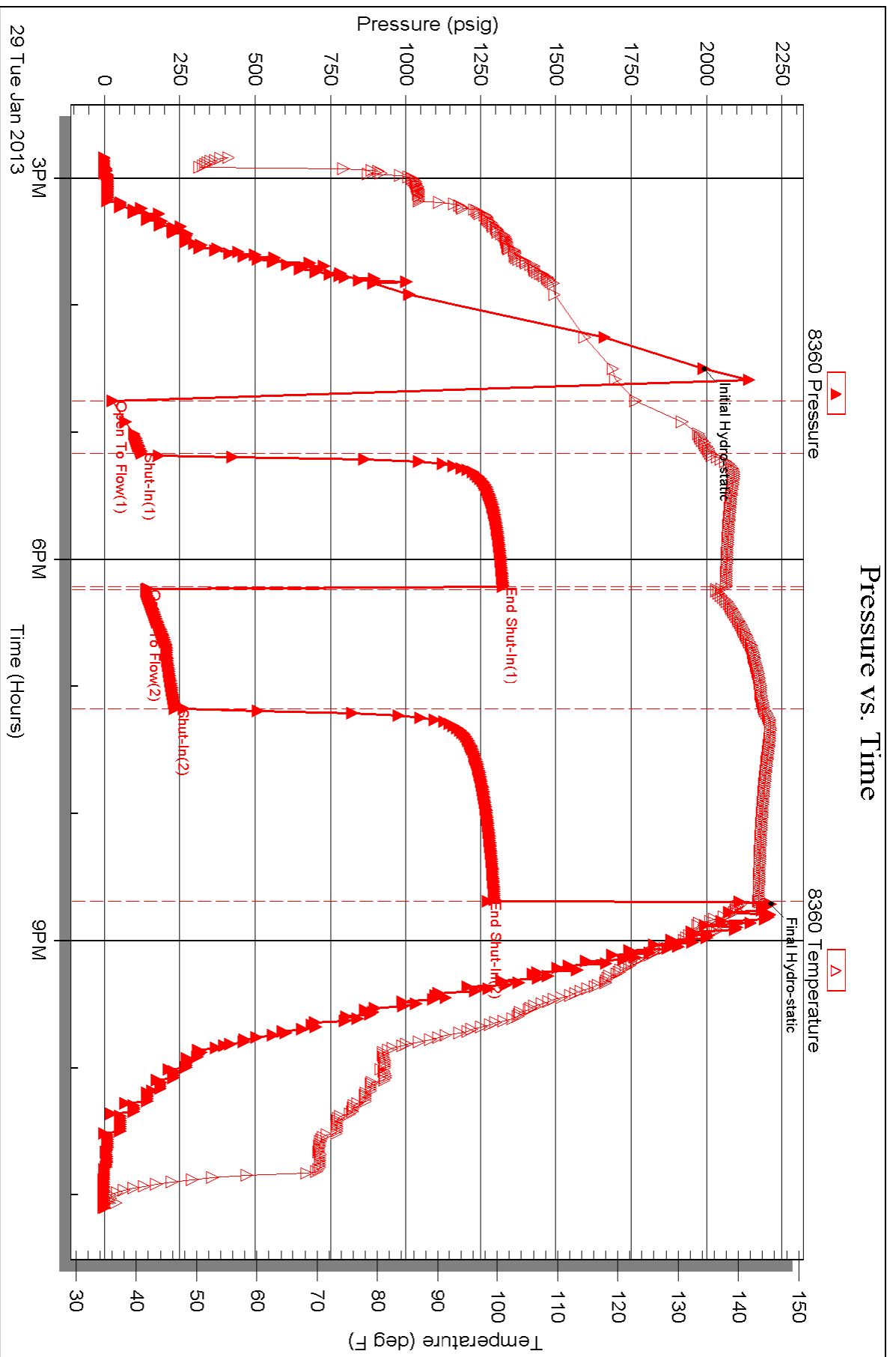
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
288.00	MGCO 30%M 35%G 35%O	1.416
363.00	GO 45%G 55%O 300' GIP	2.851

Total Length: 651.00 ft Total Volume: 4.267 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity 36.8@62 DEG=36.6







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49009

Well Name & No. Jones 'A' #1-17 Test No. 1 Date 1-26-13
 Company Murfin Drilling Co. Inc. Elevation 3149 KB 3139 GL
 Address 250 N WATER STE 300 Wichita Ks 67202
 Co. Rep / Geo. Jeff Rig Murfin #14
 Location: Sec. 17 Twp. 15 Rge. 37w Co. Cherokee State Ks

Interval Tested 4062 4145 Zone Tested LANA
 Anchor Length 83 Drill Pipe Run 3509 Mud Wt. 9.2
 Top Packer Depth 4057 Drill Collars Run 534 Vis 55
 Bottom Packer Depth 4062 Wt. Pipe Run 0 WL 6.4
 Total Depth 4145 Chlorides 1200 ppm System LCM 4
 Blow Description IF Weak Blow built to 1/4"
ISL No Blow
FF No Blow
FSI No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 Total 5 BHT 130 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2067</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>4:10</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>9:50</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:00</u>
(D) Initial Shut-In <u>129</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>15:00</u>
(E) Second Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2 1/2 hrs</u> 250	T-Out <u>16:40</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT</u> 201.50	Comments <u>Expected to be on</u>
(G) Final Shut-In <u>57</u>	<input type="checkbox"/> Sampler	<u>depth at 5:15 they</u>
(H) Final Hydrostatic <u>2063</u>	<input type="checkbox"/> Straddle	<u>wait on bank until 9:50</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1776.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1776.50</u>	

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49010

Well Name & No. Jones 'A' 1-17 Test No. 2 Date 1-26-13
 Company Murphy Drilling Co Inc Elevation 3149 KB 3139 GL
 Address 250 N Water stc 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christian Rig Martin 14
 Location: Sec. 17 Twp. 15 Rge. 37w Co. Cherokee State KS

Interval Tested 4130 4182 Zone Tested Lan D
 Anchor Length 52 Drill Pipe Run 3584 Mud Wt. 9.3
 Top Packer Depth 4125 Drill Collars Run 534 Vis 53
 Bottom Packer Depth 4130 Wt. Pipe Run 0 WL 6.0
 Total Depth 4182 Chlorides 1,600 ppm System LCM 4

Blow Description IF Built to 6'
ISI No Blow
FF Built to 6''
FSI No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>0cm</u>	<u>5</u>	<u>35</u>	<u>60</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 200 BHT 132 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

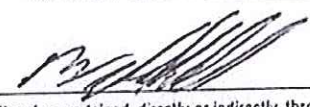
(A) Initial Hydrostatic 2073
 (B) First Initial Flow 27
 (C) First Final Flow 71
 (D) Initial Shut-In 1274
 (E) Second Initial Flow 86
 (F) Second Final Flow 125
 (G) Final Shut-In 1254
 (H) Final Hydrostatic 1957

Test 1250
 Jars 250
 Safety Joint 75
 Circ Sub NA
 Hourly Standby _____
 Mileage 130 RT 201.50
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1776.50

T-On Location 23:15
 T-Started 12:05
 T-Open 2:35
 T-Pulled 6:35
 T-Out 8:30

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1776.50
 MP/DST Disc't _____

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

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49011

Well Name & No. Jones 'A' 1-17 Test No. 3 Date 1-27-13
 Company Murfin Drilling Co Inc Elevation 3149 KB 3139 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin 14
 Location: Sec. 17 Twp. 1s Rge. 37W Co. Cherokee State KS

Interval Tested 4194 4296 Zone Tested L, H, G, H, F
 Anchor Length 102 Drill Pipe Run 3647 Mud Wt. 9.1
 Top Packer Depth 4189 Drill Collars Run 534 Vis 55
 Bottom Packer Depth 4194 Wt. Pipe Run 0 WL 6.4
 Total Depth 4296 Chlorides 1800 ppm System LCM 4

Blow Description 1F Weak Surface Blow Dred in 5min
151 No Blow
1F No Blow
151 No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 Total 5 BHT 132 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2019 Test 1250
 (B) First Initial Flow 19 Jars 250
 (C) First Final Flow 31 Safety Joint 75
 (D) Initial Shut-In 254 Circ Sub NA
 (E) Second Initial Flow 22 Hourly Standby
 (F) Second Final Flow 28 Mileage 130 RT 201.50
 (G) Final Shut-In 94 Sampler
 (H) Final Hydrostatic 2035 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

T-On Location 20:00
 T-Started 21:00
 T-Open 23:25
 T-Pulled 23:5
 T-Out 4:10

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

Sub Total 1776.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49012

4/10

Well Name & No. Jones 'A' 1-17 Test No. 4 Date 1-28-13
 Company Merkin Drilling Co Inc Elevation 3149 KB 3139 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Jeff Christen Rig Merlin 14
 Location: Sec. 17 Twp. 15 Rge. 37w Co. Cherokee State ks

Interval Tested 4276 4334 Zone Tested Lan J
 Anchor Length 58' Drill Pipe Run 3741 Mud Wt. 9.1
 Top Packer Depth 4271 Drill Collars Run 534 Vis 55
 Bottom Packer Depth 4276 Wt. Pipe Run 0 WL 6.4
 Total Depth 4334 Chlorides 1800 ppm System LCM 4
 Blow Description IF Built to 5"
IS1 No Blow
PF Built to 1 1/2"
FS1 No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OCM</u>	<u>20</u>		<u>60</u>	
<u>384</u>	<u>OSM</u>	<u>1</u>		<u>99</u>	
<u>7</u>					

Rec Total 404 BHT 136 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2180 Test 1250 T-On Location 10:45
 (B) First Initial Flow 80 Jars 250 T-Started 11:15
 (C) First Final Flow 133 Safety Joint 75 T-Open 1:25
 (D) Initial Shut-In 1343 Circ Sub NA T-Pulled 5:25
 (E) Second Initial Flow 140 Hourly Standby _____ T-Out 11:50
 (F) Second Final Flow 206 Mileage 130 RT 201.50 Comments _____
 (G) Final Shut-In 1330 Sampler _____
 (H) Final Hydrostatic 2099 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1776.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1776.50

Approved By _____

Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49013

Well Name & No. Jones 'A' 1-17 Test No. 5 Date 1-29-13
 Company Morfin Drilling Co Inc Elevation 3149 KB 3139 GL
 Address 250 N Water STE 300 Wichita Ks 67202
 Co. Rep / Geo. Jeff Christian Rig Morfin 14
 Location: Sec. 17 Twp. 1s Rge. 37w Co. Cherokee State Ks

Interval Tested 4478 4526 Zone Tested Panzer
 Anchor Length 48 Drill Pipe Run 3932 Mud Wt. 9.1
 Top Packer Depth 4473 Drill Collars Run 534 Vis 75
 Bottom Packer Depth 4478 Wt. Pipe Run 0 WL 5.6
 Total Depth 4526 Chlorides 800 ppm System LCM 2

Blow Description IF BOB in 10 min
ISI Built to 3"
FF BOB in 14 min
FSI BOB in 25 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>363</u>	<u>60</u>	<u>45</u>	<u>55</u>		
<u>288</u>	<u>MOC O</u>	<u>35</u>	<u>35</u>		<u>30</u>
<u>300</u>	<u>OIP</u>				
Rec Total	<u>651</u>				

BHT 140 Gravity 36.80620 = 36.6 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1199 Test 1250 T-On Location 14:20
 (B) First Initial Flow 29 Jars 250 T-Started 14:50
 (C) First Final Flow 124 Safety Joint 75 T-Open 18:35
 (D) Initial Shut-In 1326 Circ Sub NA T-Pulled 22:35
 (E) Second Initial Flow 141 Hourly Standby _____ T-Out 23:00
 (F) Second Final Flow 235 Mileage 130 RT 201.50 Comments _____
 (G) Final Shut-In 1275 Sampler _____
 (H) Final Hydrostatic 2212 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1776.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1776.50

Approved By _____ Our Representative [Signature]

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acct.
Prod-Liz H

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 134553
Invoice Date: Jan 21, 2013
Page: 1

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

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

Now Includes:



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Murfin	Jones A #1-17	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 21, 2013	2/20/13

Quantity	Item	Description	Unit Price	Amount
235.00	MAT	Class A Common	17.90	4,206.50
8.00	MAT	Chloride	64.00	512.00
246.75	SER	Cubic Feet	2.48	611.94
1,171.83	SER	Ton Mileage	2.60	3,046.76
1.00	SER	Surface	1,512.25	1,512.25
103.00	SER	Pump Truck Mileage	7.70	793.10
1.00	SER	Manifold Rental	275.00	275.00
103.00	SER	Light Vehicle Mileage	4.40	453.20
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	D J Gray		

OKAD

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

\$ 4107.87

ONLY IF PAID ON OR BEFORE
Feb 15, 2013

Subtotal	11,410.75
Sales Tax	391.64
Total Invoice Amount	11,802.39
Payment/Credit Applied	
TOTAL	11,802.39

ALLIED OIL & GAS SERVICES, LLC 058837

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:
Oakley, KS

DATE <u>1/21/10</u>	SEC. <u>17</u>	TWP. <u>1</u>	RANOB <u>37</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 PM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>Done A</u>		WELL # <u>1-17</u>	LOCATION <u>Bird City 1/4 to State Line</u>		COUNTY <u>Osage</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			REAS <u></u>			8.3	

CONTRACTOR Muc Fin 14 OWNER Same

TYPE OF JOB <u>Oil Face</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>228</u>
CASING SIZE <u>8 1/8</u>	DEPTH <u>228</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>7 1/2</u>	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13.50</u>	

CEMENT AMOUNT ORDERED 235 lbm 3070 CC

COMMON <u>235</u>	@ <u>17.20</u>	<u>4006.50</u>
POZMIX	@	
GEL	@	
CHLORIDE <u>8</u>	@ <u>64.00</u>	<u>512.00</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan 1

422 HELPER Wayne McBrayer

BULK TRUCK

396 DRIVER OT Gray 3

BULK TRUCK

DRIVER

HANDLING 246.75 CF @ 2.48 611.94

MILEAGE 2.00 11.377 MM 3046.26

TOTAL 83.77

1171.83

REMARKS:

Amalg, Gravel, Measments, Displace

Cent. Station.

Cement Did Gravel

Thank You

Alan Ryan, OS

CHARGE TO: Muc Fin Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB		
PUMPTRUCK CHARGE		<u>1512.25</u>
BXTRA FOOTAGE	@	
MILEAGE <u>103</u>	@ <u>7.20</u>	<u>741.60</u>
MANIFOLD	@	
Lite Vehicle <u>103</u>	@ <u>4.20</u>	<u>432.60</u>
	@	
		TOTAL <u>3033.55</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
		TOTAL _____

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

PRINTED NAME GREG URRUB

SIGNATURE [Signature]

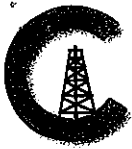
SALES TAX (if Any) 391.63

TOTAL CHARGES 11,410.75

DISCOUNT 4107.87 IF PAID IN 30 DAYS

7302.88

3670



CONSOLIDATED
Oil Well Services, LLC

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

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

INVOICE

Invoice # 256408

Invoice Date: 01/31/2013 Terms: 10/10/30,n/30

Page 1

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

JONES A 1-17
39297
17-1-37
01-31-2013 APPROVED
KS

USED FOR IC 103
JTR

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	225.00	22.5500	5073.75
1110A	KOL SEAL (50# BAG)	1125.00	.5600	630.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	413.0000	413.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4136	TURBOLIZER 5 1/2"	15.00	72.0000	1080.00
1102	CALCIUM CHLORIDE (50#)	240.00	.8900	213.60
1111A	SODIUM METASILICATE	200.00	2.4000	480.00
1215	KCL SUB MB6875 CC3107	2.00	35.7000	71.40
4315	ROTATING SCRATCHERS	10.00	90.0000	900.00
4285	5 1/2" PORT COLLAR	1.00	2075.0000	2075.00
4104	CEMENT BASKET 5 1/2"	2.00	276.0000	552.00
1111	SODIUM CHLORIDE (GRANULA	100.00	.0000	.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1198.44
9996-130	CEMENT MATERIAL DISCOUNT	-7.14
9995-130	CEMENT EQUIPMENT DISCOUNT	-486.05

Description	Hours	Unit Price	Total
405 SINGLE PUMP	1.00	3020.00	3020.00
405 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.00	375.00
460 TON MILEAGE DELIVERY	1.00	1465.50	1465.50

Amount Due 17910.96 if paid after 03/02/2013

Parts:	12055.75	Freight:	.00	Tax:	895.24	AR	16119.86
Labor:	.00	Misc:	.00	Total:	16119.86		
Sublt:	-1691.63	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

256408

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

TICKET NUMBER 39297

LOCATION Oakton KS

FOREMAN Miles Shaw

Walt & Don

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY
1-31-13	5406	Jones A 1-17		17	1S	37W	Cherokee
CUSTOMER <u>Martin Drilling</u>				Bircity North 80 State Lined 2E 2S Easton			
MAILING ADDRESS				TRUCK #	DRIVER	TRUCK #	DRIVER
CITY				405	Jerry Y		
STATE				460	Tim W		
ZIP CODE							
JOB TYPE <u>Port Collar</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>46 FT</u>	CASING SIZE & WEIGHT <u>5 1/2" 15 1/2 #</u>	OTHER <u>Petrol @ 2/105</u>			
CASING DEPTH <u>4671.06</u>	DRILL PIPE	TUBING	CEMENT LEFT in CASING <u>21.61'</u>	RATE			
SLURRY WEIGHT <u>13.8</u>	SLURRY VOL	WATER gal/sk	MIX PSI <u>1700PSI</u>	DISPLACEMENT <u>102 1/2 bbls</u>			
DISPLACEMENT <u>102 1/2 bbls</u>	DISPLACEMENT PSI <u>1000PSI</u>	REMARKS: <u>Safety meeting and rig up on Martin Drilling #14 run flat equipment Centralizes on 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 36 Baskets on Bottom of 36 & 37 Port collar tool on top 37 @ 3105' Run casing to bottom Circulate casing for 1 1/2 hrs pump 5 bbls water Flow Check 5 bbls water mix 175545 conc 5" Kolsal displaced 20 bbl KCL water 19 1/2 bbls water 6 1/2 pressure 1000PSI Plug landed 1 scoop</u>					

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE		
5404	75	MILEAGE	30.00	3000.00
5407A	11.7	Ten Milasse delivery	5.00	375.00
1126	2255 1/8	OWC Cement	1.67	1465.50
1110A	1125 #	Kolsal	22.55	5073.75
4159	1	5 1/2" AFU Flat shoe W	1.56	630.00
4454	1	5 1/2" Latchdown Plug W	413.00	413.00
4136	15	5 1/2" Turboizers	56.70	567.00
1102	240 #	Calcium Chloride	72.00	1080.00
1111A	200 #	Sodium Metasilicate	1.89	213.60
1215	2 gal	KCL	2.40	480.00
4315	10	Rotating Scratchers	35.70	71.40
4285	1	5 1/2" Port Collar tool	90.00	900.00
4104	2	5 1/2" Baskets W	2075.00	2075.00
1111	100 #	Salt	276.00	552.00
		N/C	N/C	N/C
		Sub total		16916.25
		less 10% discount		16916.25
		Sub total		15224.62
		SALES TAX		895.24
		ESTIMATED TOTAL		16119.86

completed

HORIZION Buck Sales

TITLE

DATE

I hereby acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form