



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1200530
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: _____

1200530

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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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Jones 'B' 1-9
Doc ID	1200530

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated

Depth 4385'. Cut 146'. DT: None. CT: 11hrs. Dev.: 1.2° @ 4289. **DST #2 4164-4289 (LKC A-D)**: 30-60-30-60. IF: wk surface blw built to ¾" died in 25 min. FF: no blw. Rec.: 10' M. HP: 2193-2030. FP: 21/25, 24/27. SIP: 863-816. BHT: 127°. **LKC G**: ls, off-wh, lt gry, tan, fn xtlm, sli chalky in part, scat pr/tr fr ppt vuggy por, VSSFO on brk, pr-tr fr sho hvy inert oil, pr slo cut, scat spty dk stain, few pcs w/ large isolated vugs-oil filled, gd dk st w/sat, no order. **LKC H**: mstly dns, 2 pcs w/ cpl ppts FO in calcite streak, tr live st, no odor. **DST #3 4302-4400 (LKC G-I)**:

12/31/13 Depth 4440'. Cut 55'. DT: None. CT: 18½ hrs. Dev.: None. **DST #3 4302-4400 (LKC G-I)**: 30-60-30-60. IF: wk surf blw built to 1". FF: no blw. Rec.: 25' MCO (5%M 95%O). HP: 2220-2163. FP: 19/23, 22/30. SIP: 1327-1306. BHT: 132°. **LKC J**: ls, off wh, lt gry, fnxln, sli chlky, tr ool,scat pr ppt por, pr-tr fr interxtln por, pr/fr slo cut, SSFO on brk, spty pr stain, w/ pr sat, no odor, few pcs fr drk stain w/fr sat, no drlg brk. **DST #4 4380-4440 (LKC J)**: 30-60-30-60. IF: wk ¾" blw. FF: wk blw died in 15 min.

1/1/14 Depth 4663'. Cut 193'. DT: None. CT: 11¼hrs. Dev.: None. **Pawnee**: ls, tan, ool w/ calcite cmt, sli foss (fusil), pr-fr interool por, pr-tr fr vuggy por, S-FSFO w/few gas bubbles on brk, fr slow streaming cut, pr-fr golden/med brn st, sptty-fr sat, no odor. **DST #5 4590-4633 (Pawnee)**: 30-60-60-90. IF: BOB 6min. ISI: blw built to 2", died in 50min. FF: BOB 10min. FSI: blw built to BOB in 28mins.

1/2/14 Depth 4835'. Cut 202'. DT: None. CT: 10½hrs. Dev.: 1.5° @ 4835'. **DST #5 4590-4633 (Pawnee)**: 30-60-60-90. IF: BOB 6min. ISI: blow built to 2", died in 50 min. FF: BOB 10 min. FSI: BOB 28min. Rec.: 30'CGO (15%G 85%O), 282'CGO (25%G 75%O), 94'GOCM (15%G 25%O 60%M). HP: 2331-2258. FP: 33/83, 90/168. SIP: 986-930. BHT: 145°. Gravity 38° API. TOOH F/log

1/03/14 RTD 4835'. CT: 24hrs. Pioneer logged 7:00AM to 12:15PM 1/02. LTD 4833'. Ran 115jts of 5 ½" prod csg, set @ 4825'. Swift cmt w/466sxs (266SMD, 200EA-2), PD@ 5:00AM 1/3. 20sxs RH, 14sxs MH. Lost circ 15BBL left to displace.

1/04/14 RTD: 4835'. CT: 2hrs. RR @ 9:00AM 1/03/14. FINAL REPORT.

MDCI Jones B #1-9 710' FSL 710' FWL Sec. 9-T1S-R37W 3253' KB							MDCI Jones A #1-17 1050' FNL 2310' FEL Sec. 17-T1S-R37W 3149' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3211	+42	+3	3208	+45	+6	3110	+39
B/Anhydrite	3245	+8	+1	3240	+13	+6	3142	+7
Neva	3665	-412	-1	3658	-405	+6	3560	-411
Red Eagle	3729	-476	-1	3722	-469	+6	3624	-475
Foraker	3776	-523	-1	3769	-516	+6	3671	-522
Topeka	3999	746	-1	3996	-743	+2	3894	-745
Oread	4133	-880	+2	4127	-874	+8	4031	-882
Lansing	4211	-958	+1	4213	-960	-1	4108	-959
Stark	4433	-1180	Flat	4428	-1175	+5	4329	-1180
BKC				4483	-1230	+6	4385	-1236
Pawnee	4607	-1354	Flat	4605	-1352	+2	4503	-1354
Cherokee	4698	-1445	-2	4690	-1457	+6	4592	-1443
Mississippi	NR			NR			NR	
RTD	4835	-1582						
LTD				4833	-1580		4680	



PO Box 93999
Southlake, TX 76092

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

*WCT
Prod-LH*

INVOICE

Invoice Number: 140441
Invoice Date: Dec 16, 2013
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62174	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 16, 2013	1/15/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jones B #1-9		
170.00	CEMENT MATERIALS	Class A Common	17.90	3,043.00
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
178.51	CEMENT SERVICE	Cubic Feet Charge	2.48	442.70
823.00	CEMENT SERVICE	Ton Mileage Charge	2.60	2,139.80
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
100.00	CEMENT SERVICE	Pump Truck Mileage	7.70	770.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
100.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	440.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Mike McKampson		
1.00	OPERATOR ASSISTANT	Adam Flipse		

01502

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

\$ 3,152.36

ONLY IF PAID ON OR BEFORE
Jan 10, 2014

Subtotal	9,006.75
Sales Tax	279.30
Total Invoice Amount	9,286.05
Payment/Credit Applied	
TOTAL	9,286.05



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

Invoice

DATE	INVOICE #
1/3/2014	25324

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

USED FOR IC 103 • Acidizing
 APPROVED JR FH • Cement
 • Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-9	Jones B	Cheyenne	Company Tools	Oil	Development	Top To Bottom ...	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				150	Miles	6.00	900.00
579D	Pump Charge - Top To Bottom LongString - 4835 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				125	Lb(s)	2.50	312.50T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.50	675.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,772.5	Ton Miles	1.00	3,772.50
	Subtotal							22,060.00
	Sales Tax Cheyenne County						8.15%	1,172.58

Thank You For Your Business In 2013! We Look Forward To Serving You In 2014!	Total	\$23,232.58
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Services, Inc.

CHARGE TO: Martin Drly Car. Inc
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 25324

CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, KS
 2. Ness City, KS
 3.
 4. REFERRAL LOCATION

WELL/PROJECT NO. B#1-9 LEASE Jones COUNTY/PARISH Cheyenne STATE KS DATE 1-31-14 OWNER Same
 TICKET TYPE SERVICE SALES CONTRACTOR Co Tools #25 RIG NAME/NO. CT SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Trab Longstring WELL PERMIT NO. WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575					#111	150	gal			6.00	900.00
579				Pump Charge (Trab Longstring)		100		4835	1	2000.00	2000.00
221				KEL		4	gal			25.00	100.00
281				Mud Flush		520	gal			1.25	650.00
290				D-Air		5	gal			42.00	210.00
403				Baskets		3	ea	5-1/2	"	300.00	900.00
406				L D Plug & Ball		1	ea			275.00	275.00
407				Insert Flat Shore w/ Fill		1	ea			375.00	375.00
409				Turbalizers		15	ea			90.00	1350.00
413				Retawal Scratchers		10	ea			40.00	400.00
419				Retating Head		1	ea			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 1-5-14 TIME SIGNED 0525 A.M. P.M.

SWIFT OPERATOR Mark K... Co APPROVAL

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 1 735.00
 PAGE 2 1472.50
 Subtotal 2206.00
 Cheyenne TAX 8.15% 1172.58
 TOTAL 23,232.58

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 1-3-14 PAGE NO. 1

CUSTOMER Muslin Drilling Co Inc

WELL NO B #1-9

LEASE Jones

JOB TYPE 700B long string

TICKET NO. 25324

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1945							on loc w/FE
								RTD 4835' LTD 4833'
								5 1/2" X 15.5" X 4823' X 21'
								Turns 1-10, 12, 14, 16, 27, 39
								Back 15, 28, 40
	2325							start FE
	0100							70jts circ 15 min
	0240							Bttm circ
	0400	5	0				200	start 500gal Mudflurds
		5	12/0				200	start 20bbl KCL
	0405	5	20/0				200	start 255sks SMD
	0435	5	145/0				200	start 200sks EA-2
	0445		48					End Cement
								wash P&L
								Drop LD Plug
	0450	6	0				200	start Displacement
	0507	5	100				400	Circ Cement (did not circ ent)
	0510		114				1000/1600	Land Plug (lost circ @ 100bbl)
								Release pressure
								Float Hold
	0515	2.5	7/4					Plug RH+MH 30/200sks SMD
								Thank you
								Nick, David E., John, Jarrod



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Chuck Schmaltz

Jones B #1-9

9 1s 37w Cheyenne,KS

Start Date: 2013.12.27 @ 18:40:00

End Date: 2013.12.28 @ 02:15:00

Job Ticket #: 55934 DST #: 1

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

Printed: 2014.01.03 @ 10:30:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

9 1s 37w Cheyenne, KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55934

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2013.12.27 @ 18:40:00

GENERAL INFORMATION:

Formation: **Foraker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:00

Time Test Ended: 02:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3738.00 ft (KB) To 3790.00 ft (KB) (TVD)

Reference Elevations: 3263.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

3250.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8673 Inside

Press@RunDepth: 18.65 psig @ 3739.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.27

End Date:

2013.12.28

Last Calib.:

2013.12.28

Start Time: 18:40:01

End Time:

02:15:00

Time On Btm:

2013.12.27 @ 21:02:30

Time Off Btm:

2013.12.28 @ 00:39:00

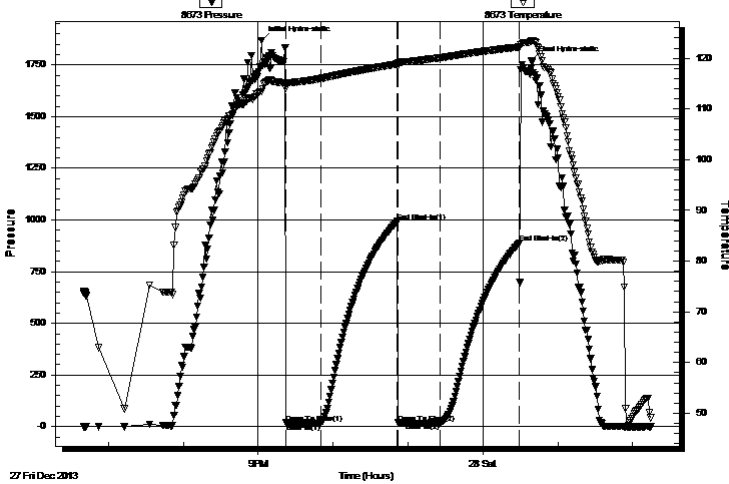
TEST COMMENT: IF: Weak surface blow, Died in 21 mins.

IS: No blow back over 60 mins.

FF: No blow over 30 mins.

FS: No blow back over 60 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.20	113.44	Initial Hydro-static
20	17.90	113.97	Open To Flow (1)
48	18.08	115.98	Shut-In(1)
109	993.08	118.88	End Shut-In(1)
110	18.60	118.39	Open To Flow (2)
144	18.65	120.12	Shut-In(2)
207	887.23	122.23	End Shut-In(2)
217	1771.72	123.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm-30%m70%o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55934

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2013.12.27 @ 18:40:00

Tool Information

Drill Pipe:	Length: 3735.00 ft	Diameter: 3.80 inches	Volume: 52.39 bbl	Tool Weight: 2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 52.39 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3738.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3715.00	
Hydraulic tool	5.00			3720.00	
Jars	5.00			3725.00	
Safety Joint	3.00			3728.00	
Packer	5.00			3733.00	28.00 Bottom Of Top Packer
Packer	5.00			3738.00	
Stubb	1.00			3739.00	
Recorder	0.00	8673	Inside	3739.00	
Recorder	0.00	8651	Outside	3739.00	
Perforations	14.00			3753.00	
change Over Sub	1.00			3754.00	
Drill Pipe	32.00			3786.00	
Change Over Sub	1.00			3787.00	
Bullnose	3.00			3790.00	52.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55934

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2013.12.27 @ 18:40:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm-30% m70%o	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

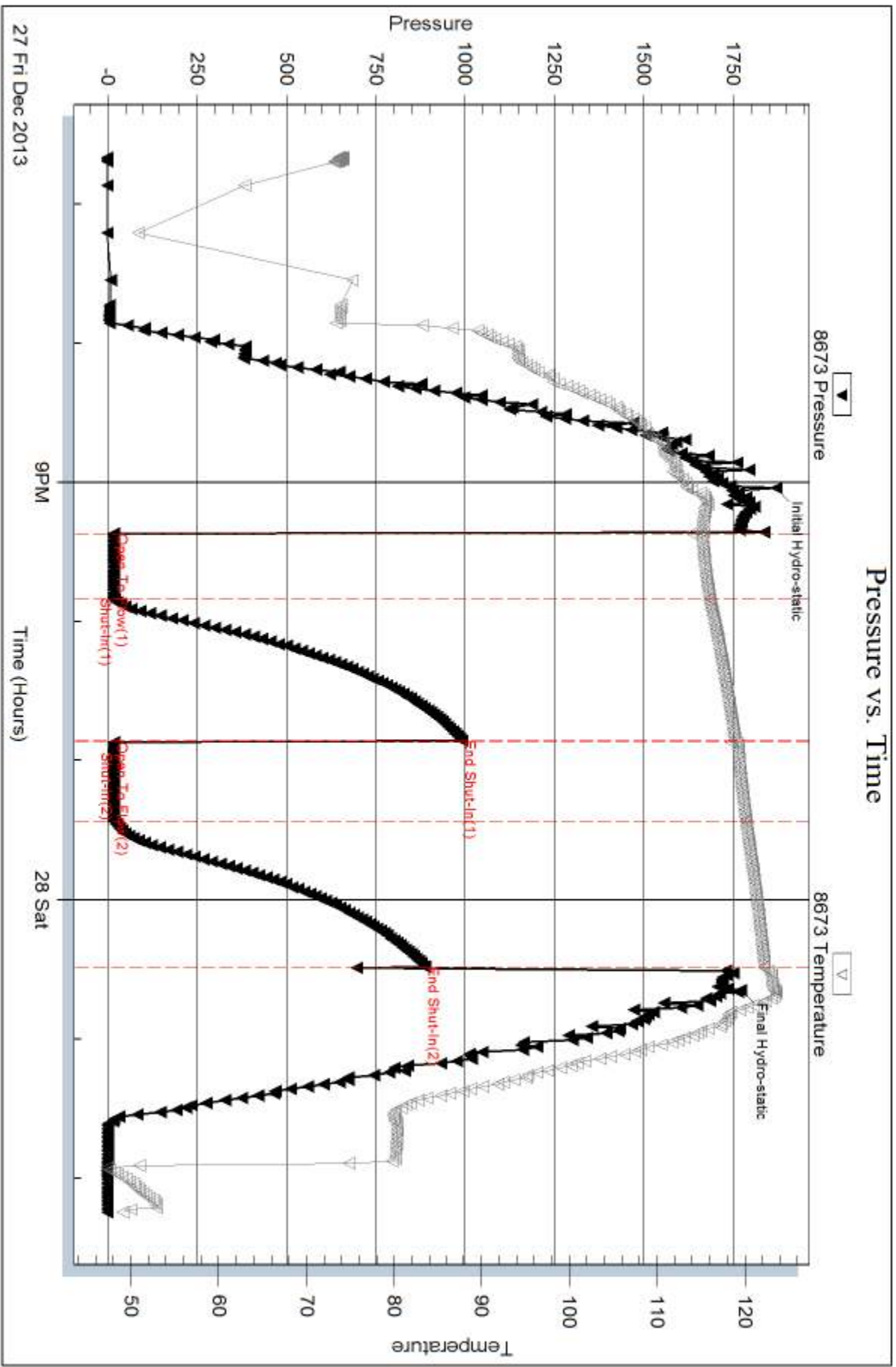
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

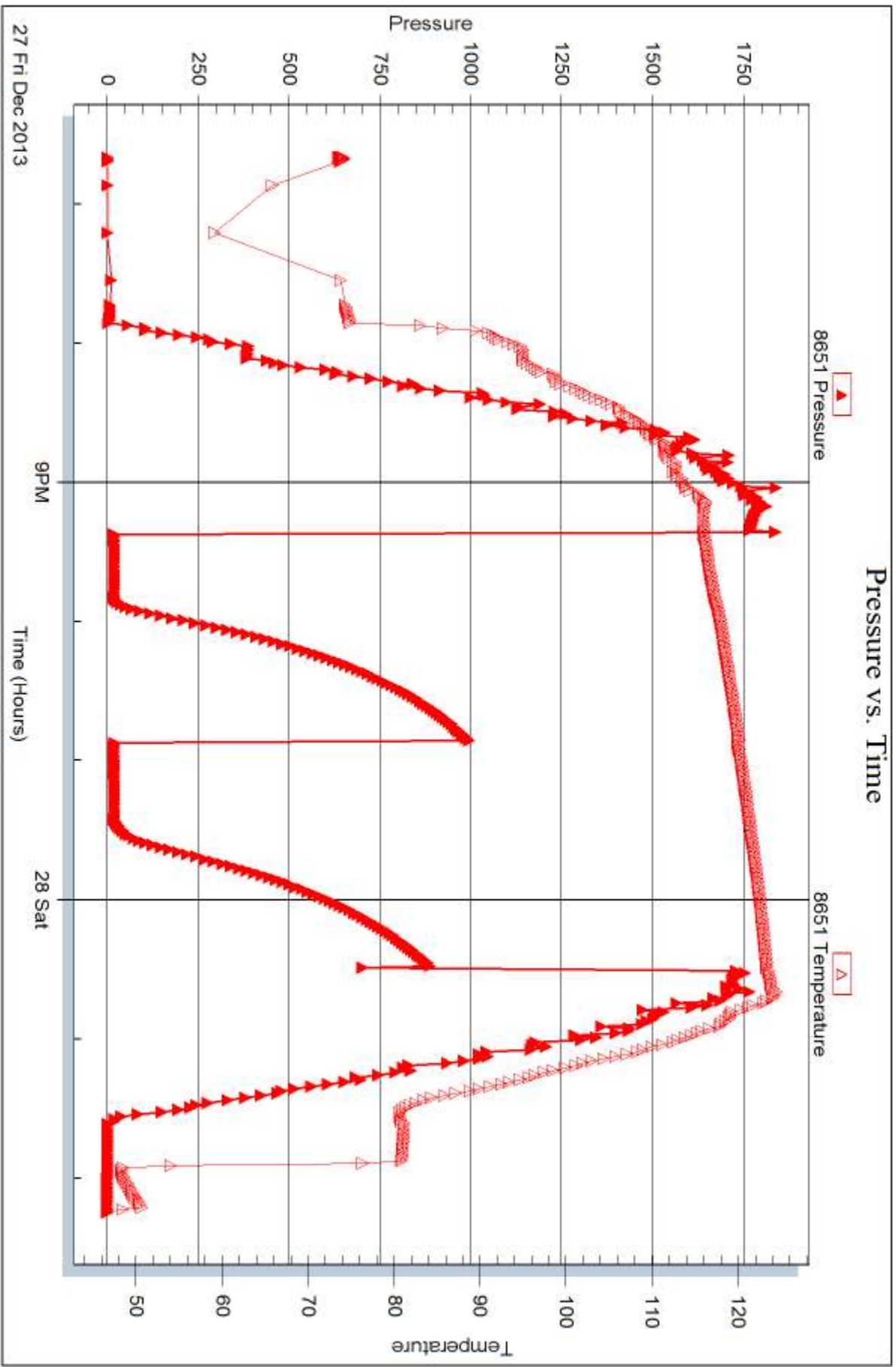


Serial #: 8651

Outside Murfin Drilling Co.

Jones B#1-9

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Chuck Schmaltz

Jones B #1-9

9 1s 37w Cheyenne,KS

Start Date: 2013.12.29 @ 13:20:00

End Date: 2013.12.29 @ 19:58:30

Job Ticket #: 55935 DST #: 2

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

Printed: 2014.01.03 @ 10:29:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

9 1s 37w Cheyenne, KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55935

DST#: 2

ATTN: Chuck Schmalz

Test Start: 2013.12.29 @ 13:20:00

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:09:30

Time Test Ended: 19:58:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4164.00 ft (KB) To 4289.00 ft (KB) (TVD)

Reference Elevations: 3263.00 ft (KB)

Total Depth: 4289.00 ft (KB) (TVD)

3250.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8673

Inside

Press@RunDepth: 27.49 psig @ 4165.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.29

End Date:

2013.12.29

Last Calib.:

2013.12.29

Start Time: 13:20:01

End Time:

19:58:30

Time On Btm:

2013.12.29 @ 14:55:30

Time Off Btm:

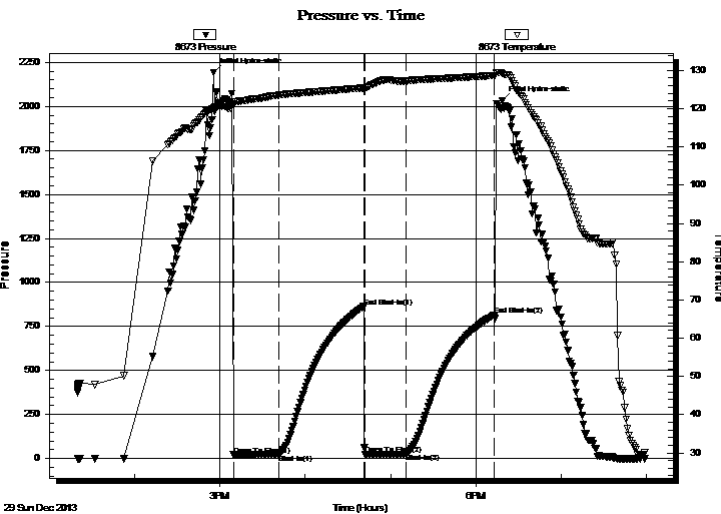
2013.12.29 @ 18:18:30

TEST COMMENT: IF: Weak surface blow, Built to 3/4". in 7 mins. Started to die. Dead in 25 mins.

IS: No blow back over 60 mins.

FF: Weak surface blow, Dead in 10 secs.

FS: No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.88	120.29	Initial Hydro-static
14	20.63	121.22	Open To Flow (1)
46	24.73	123.48	Shut-In(1)
106	862.68	125.43	End Shut-In(1)
107	23.75	125.35	Open To Flow (2)
136	27.49	127.19	Shut-In(2)
198	816.33	128.65	End Shut-In(2)
203	2030.97	129.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud-100%m	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55935

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2013.12.29 @ 13:20:00

Tool Information

Drill Pipe:	Length: 4146.00 ft	Diameter: 3.80 inches	Volume: 58.16 bbl	Tool Weight: 2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 58.16 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4164.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	125.00 ft			
Tool Length:	153.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4141.00	
Hydraulic tool	5.00			4146.00	
Jars	5.00			4151.00	
Safety Joint	3.00			4154.00	
Packer	5.00			4159.00	28.00 Bottom Of Top Packer
Packer	5.00			4164.00	
Stubb	1.00			4165.00	
Recorder	0.00	8673	Inside	4165.00	
Recorder	0.00	8651	Outside	4165.00	
Perforations	24.00			4189.00	
change Over Sub	1.00			4190.00	
Drill Pipe	95.00			4285.00	
Change Over Sub	1.00			4286.00	
Bullnose	3.00			4289.00	125.00 Bottom Packers & Anchor

Total Tool Length: 153.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55935

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2013.12.29 @ 13:20:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud-100%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

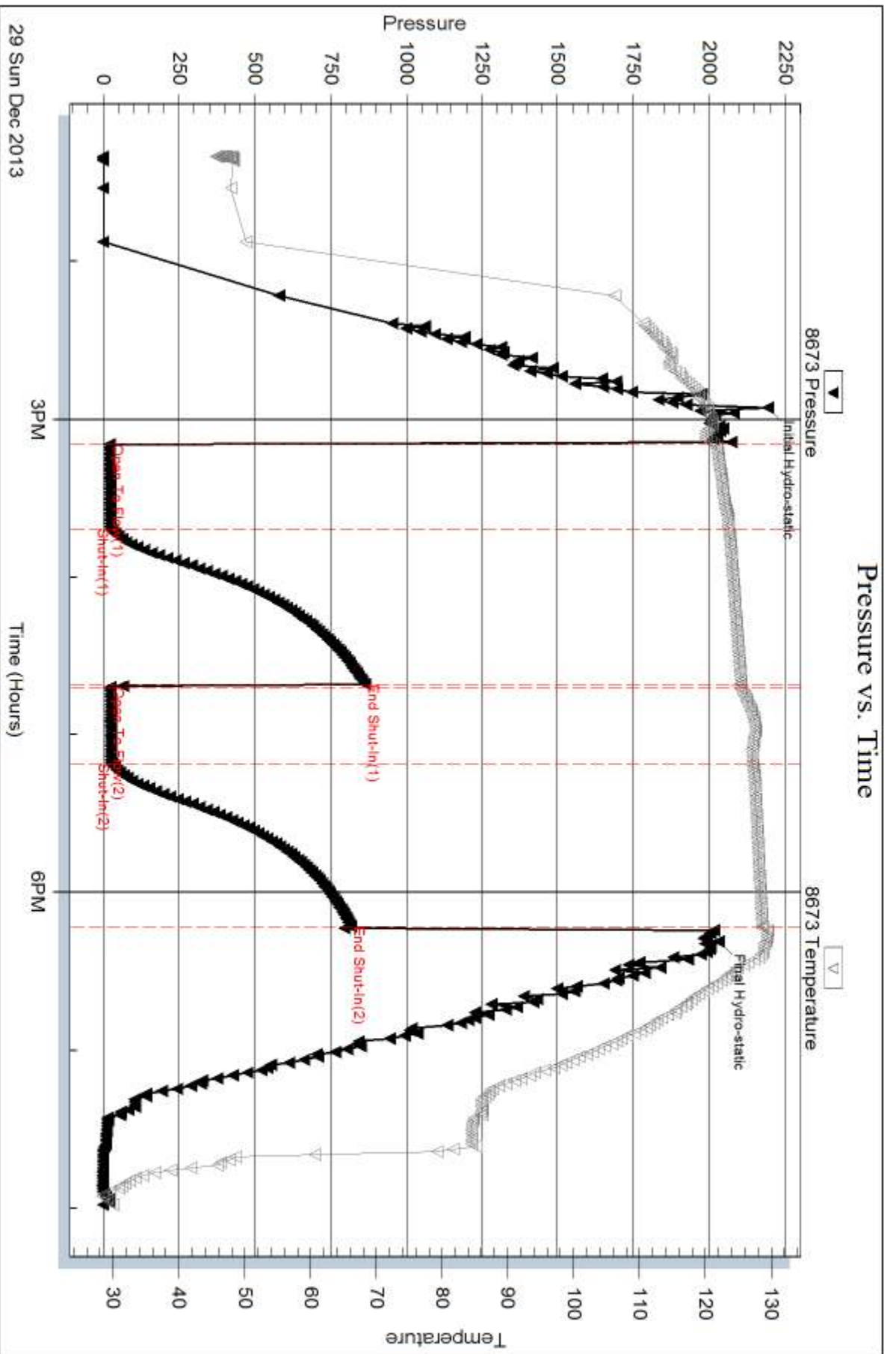
Num Gas Bombs: 0

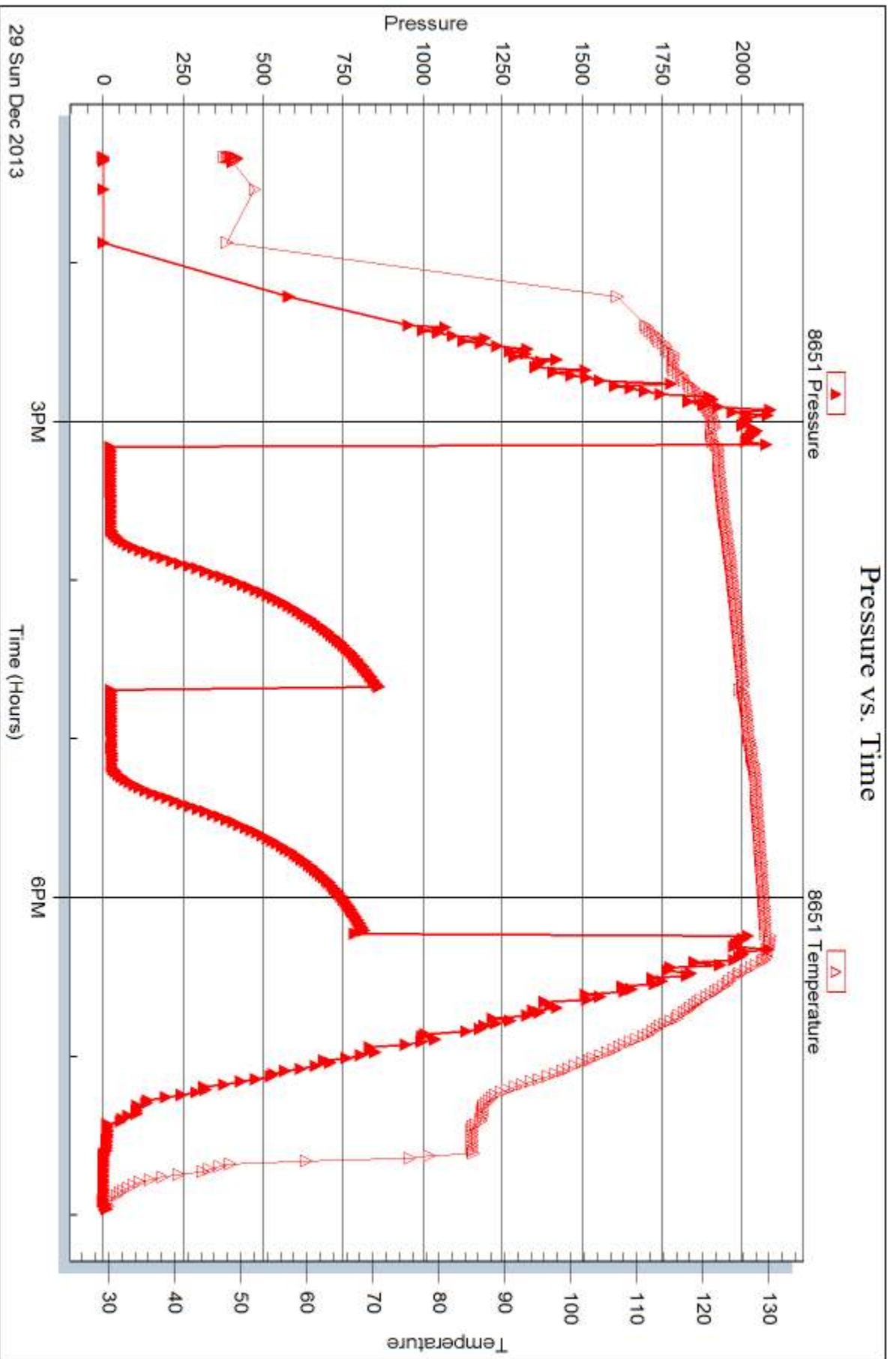
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





29 Sun Dec 2013



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Chuck Schmaltz

Jones B #1-9

9 1s 37w Cheyenne,KS

Start Date: 2013.12.30 @ 10:43:00

End Date: 2013.12.30 @ 17:34:00

Job Ticket #: 55936 DST #: 3

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

Printed: 2014.01.03 @ 10:29:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

9 1s 37w Cheyenne, KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55936

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2013.12.30 @ 10:43:00

GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:36:30

Time Test Ended: 17:34:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4302.00 ft (KB) To 4400.00 ft (KB) (TVD)

Total Depth: 4400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3263.00 ft (KB)

3250.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8673

Inside

Press@RunDepth: 30.32 psig @ 4303.00 ft (KB)

Start Date: 2013.12.30

End Date:

2013.12.30

Start Time: 10:43:01

End Time:

17:34:00

Capacity: 8000.00 psig

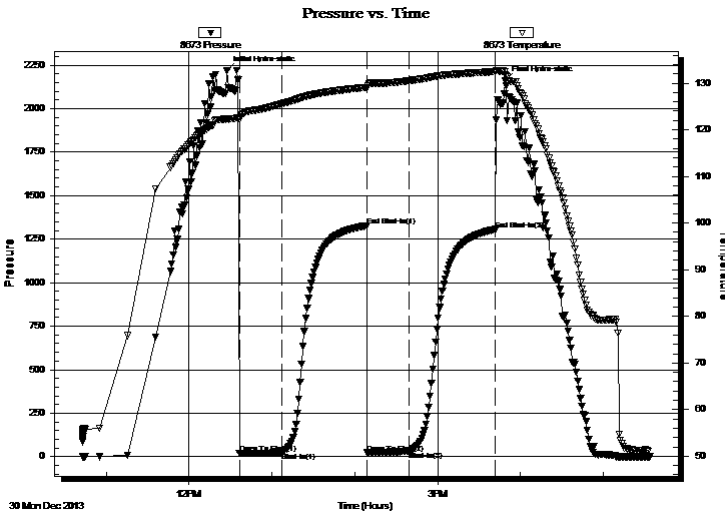
Last Calib.: 2013.12.30

Time On Btm: 2013.12.30 @ 12:27:30

Time Off Btm: 2013.12.30 @ 15:49:00

TEST COMMENT: IF: Weak blow, Built to 1" over 30 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.92	122.30	Initial Hydro-static
9	18.72	122.26	Open To Flow (1)
40	22.87	125.55	Shut-In(1)
101	1327.25	129.09	End Shut-In(1)
102	21.78	128.86	Open To Flow (2)
132	30.32	130.52	Shut-In(2)
195	1306.05	132.46	End Shut-In(2)
202	2163.45	131.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	ocm-5% m95% o	0.35

* 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.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55936

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2013.12.30 @ 10:43:00

Tool Information

Drill Pipe:	Length: 4299.00 ft	Diameter: 3.80 inches	Volume: 60.30 bbl	Tool Weight: 2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 25000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4302.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	126.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4279.00	
Hydraulic tool	5.00			4284.00	
Jars	5.00			4289.00	
Safety Joint	3.00			4292.00	
Packer	5.00			4297.00	28.00 Bottom Of Top Packer
Packer	5.00			4302.00	
Stubb	1.00			4303.00	
Recorder	0.00	8673	Inside	4303.00	
Recorder	0.00	8651	Outside	4303.00	
Perforations	29.00			4332.00	
change Over Sub	1.00			4333.00	
Drill Pipe	63.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	3.00			4400.00	98.00 Bottom Packers & Anchor

Total Tool Length: 126.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55936

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2013.12.30 @ 10:43:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	ocm-5% m 95% o	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

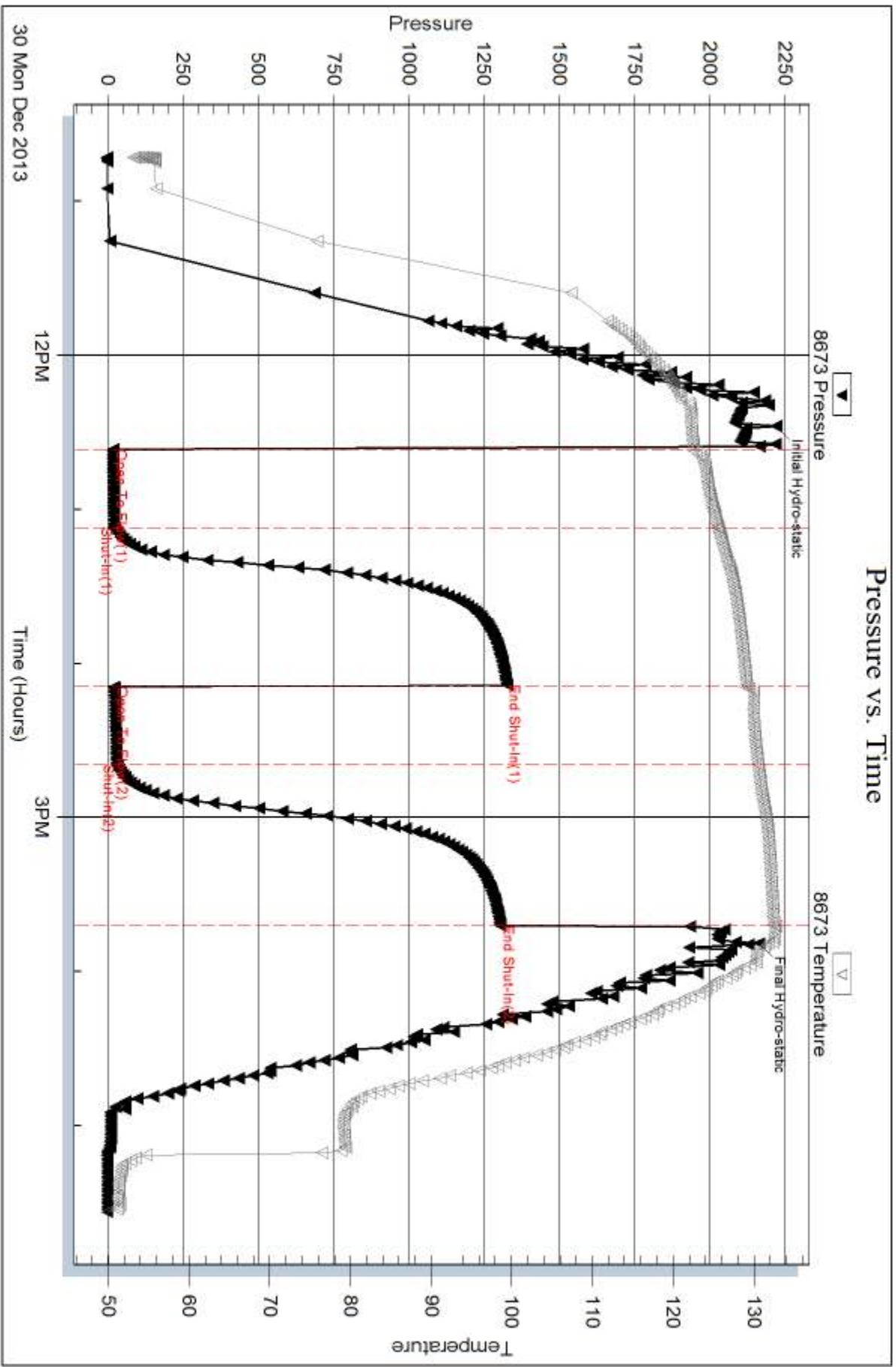
Num Gas Bombs: 0

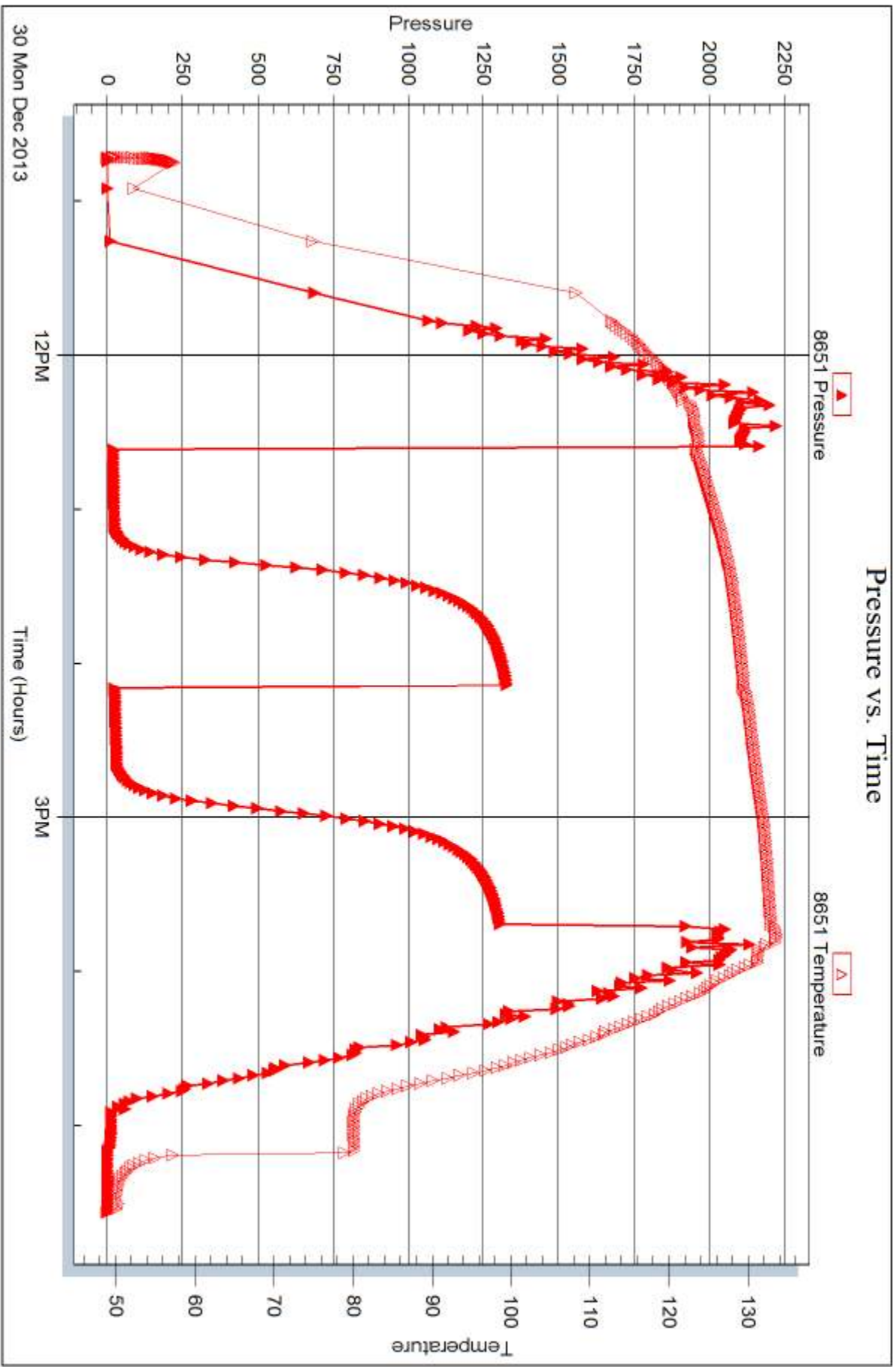
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Chuck Schmaltz

Jones B #1-9

9 1s 37w Cheyenne,KS

Start Date: 2013.12.31 @ 02:45:00

End Date: 2013.12.31 @ 10:02:00

Job Ticket #: 55937 DST #: 4

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

Printed: 2014.01.03 @ 10:27:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

9 1s 37w Cheyenne, KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55937

DST#: 4

ATTN: Chuck Schmalz

Test Start: 2013.12.31 @ 02:45:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:56:30

Time Test Ended: 10:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4380.00 ft (KB) To 4440.00 ft (KB) (TVD)

Reference Elevations: 3263.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

3250.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8673

Inside

Press@RunDepth: 18.92 psig @ 4341.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2013.12.31

Last Calib.:

2013.12.31

Start Time: 02:45:01

End Time:

10:02:00

Time On Btm:

2013.12.31 @ 04:54:30

Time Off Btm:

2013.12.31 @ 08:07:30

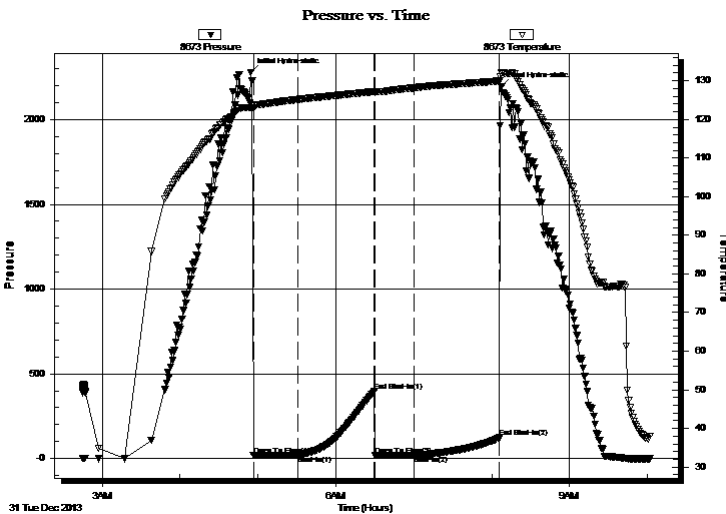
TEST COMMENT: IF: Weak blow , Built to 3/4" over 30 mins.

IS: No blow back over 60 mins.

FF: Weak blow , Died in 15 mins.

FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2279.38	123.03	Initial Hydro-static
2	18.12	122.89	Open To Flow (1)
36	20.93	125.16	Shut-In(1)
95	396.62	127.20	End Shut-In(1)
96	18.62	126.94	Open To Flow (2)
126	18.92	128.18	Shut-In(2)
192	122.90	129.94	End Shut-In(2)
193	2197.01	132.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	mud-100%m	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

9 1s 37w Cheyenne, KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55937

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2013.12.31 @ 02:45:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:56:30

Time Test Ended: 10:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4380.00 ft (KB) To 4440.00 ft (KB) (TVD)

Total Depth: 4440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3263.00 ft (KB)

3250.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8651 Outside

Press@RunDepth: psig @ 4341.00 ft (KB)

Start Date: 2013.12.31

End Date:

2013.12.31

Start Time: 02:45:01

End Time:

10:02:00

Capacity: 8000.00 psig

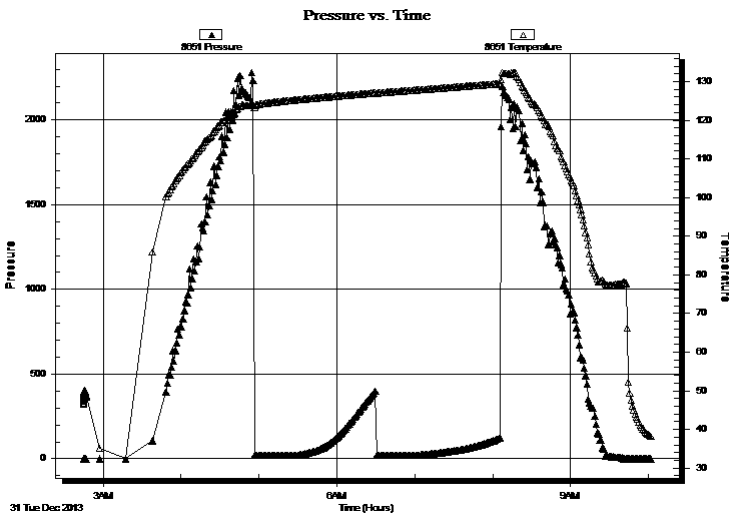
Last Calib.: 2013.12.31

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow, Built to 3/4" over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow, Died in 15 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
7.00	mud-100%m	0.10

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.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55937

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2013.12.31 @ 02:45:00

Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 bbl	Tool Weight: 2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 60.63 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4340.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4317.00	
Hydraulic tool	5.00			4322.00	
Jars	5.00			4327.00	
Safety Joint	3.00			4330.00	
Packer	5.00			4335.00	28.00 Bottom Of Top Packer
Packer	5.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	8673	Inside	4341.00	
Recorder	0.00	8651	Outside	4341.00	
Perforations	22.00			4363.00	
change Over Sub	1.00			4364.00	
Drill Pipe	32.00			4396.00	
Change Over Sub	1.00			4397.00	
Bullnose	3.00			4400.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55937

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2013.12.31 @ 02:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	mud-100%m	0.098

Total Length: 7.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

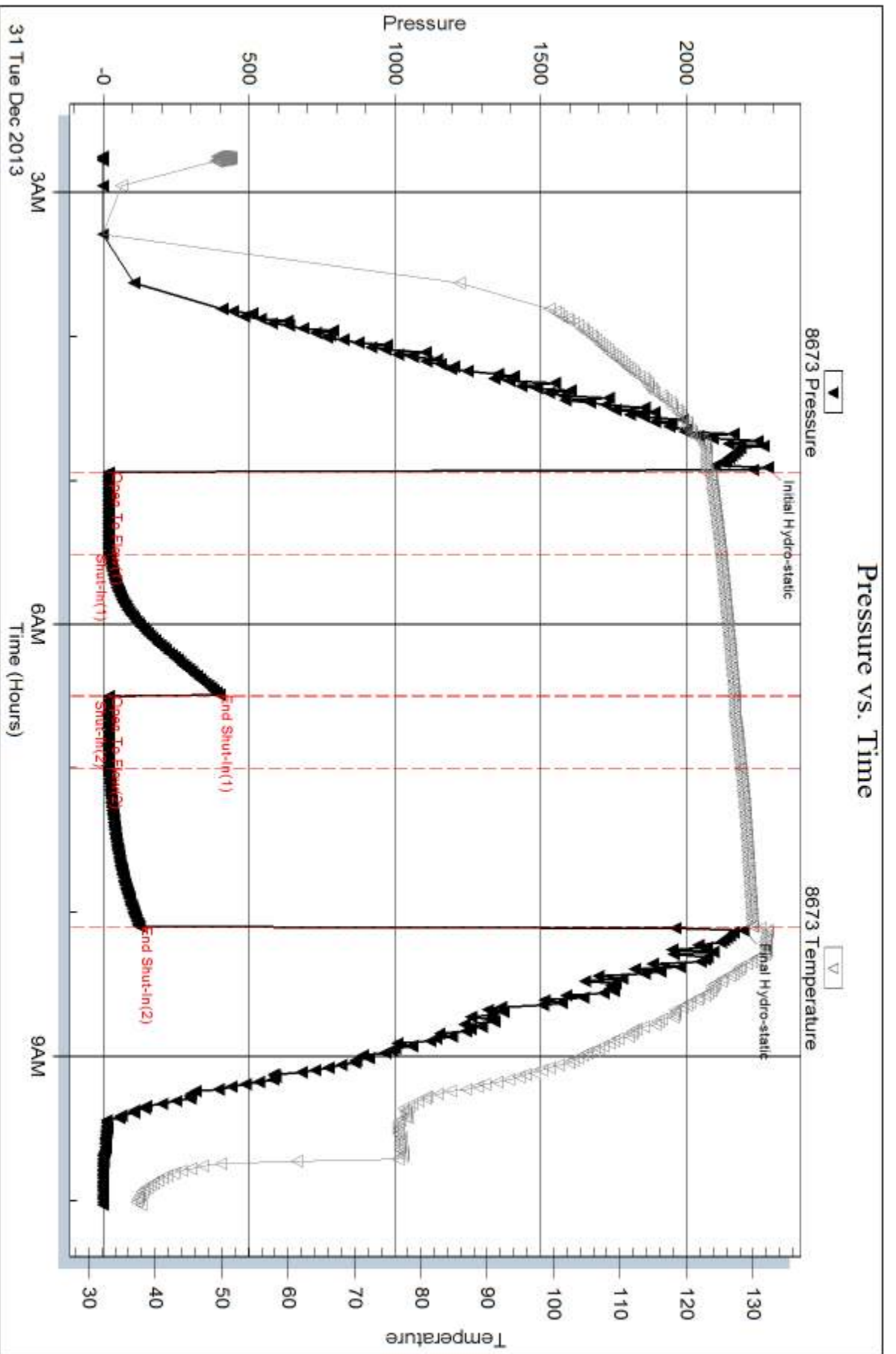
Num Gas Bombs: 0

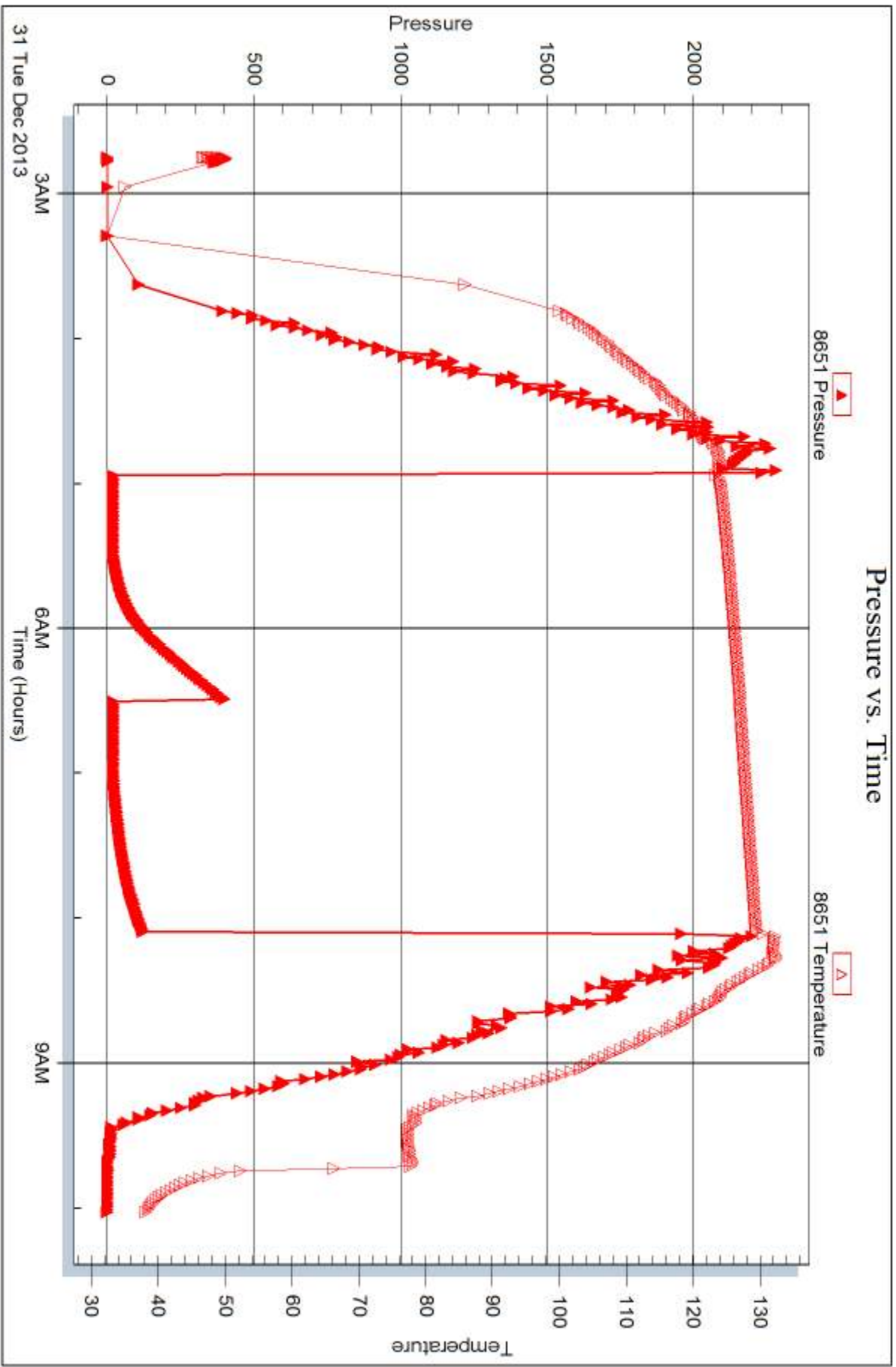
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Chuck Schmaltz

Jones B #1-9

9 1s 37w Cheyenne,KS

Start Date: 2014.01.01 @ 04:05:00

End Date: 2014.01.01 @ 12:43:00

Job Ticket #: 55938 DST #: 5

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

Printed: 2014.01.03 @ 10:26:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

9 1s 37w Cheyenne, KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55938

DST#: 5

ATTN: Chuck Schmalz

Test Start: 2014.01.01 @ 04:05:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:00

Time Test Ended: 12:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 4590.00 ft (KB) To 4633.00 ft (KB) (TVD)

Reference Elevations: 3263.00 ft (KB)

Total Depth: 4633.00 ft (KB) (TVD)

3250.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8673

Inside

Press@RunDepth: 168.42 psig @ 4591.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.01

End Date:

2014.01.01

Last Calib.:

2014.01.01

Start Time: 04:05:01

End Time:

12:43:00

Time On Btm:

2014.01.01 @ 05:58:00

Time Off Btm:

2014.01.01 @ 10:20:00

TEST COMMENT:

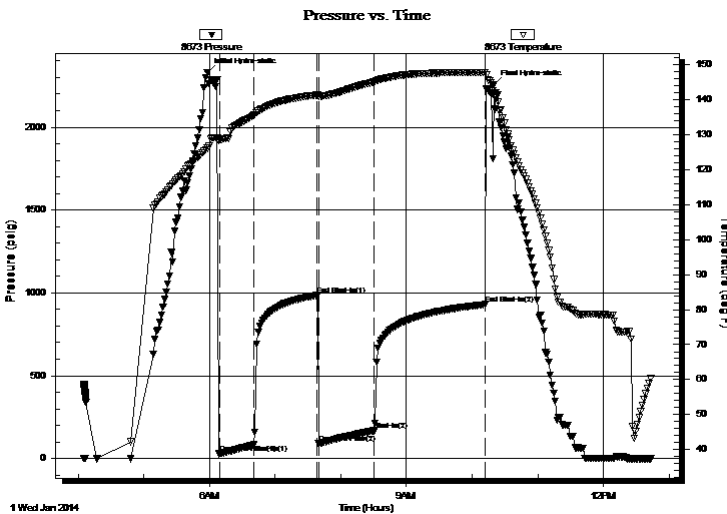
IF: Strong blow, Built to B.O.B in 6 mins.

IS: Bled off, Blow back after 1 min. Built to 2 1/2" over 30 mins. started to die. Dead in 50 mins.

FF: Strong blow, Built to B.O.B in 10 mins.

FS: Bled off, Blow back after 1 min. Built to B.O.B in 28 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2331.02	126.20	Initial Hydro-static
11	32.58	128.68	Open To Flow (1)
43	83.03	135.56	Shut-In(1)
100	985.97	141.34	End Shut-In(1)
102	89.51	141.04	Open To Flow (2)
153	168.42	145.10	Shut-In(2)
254	930.24	147.81	End Shut-In(2)
262	2257.57	141.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
94.00	gocm-15%g25%o60%m	1.32
282.00	go-25%g75%o	3.96
30.00	go-15%g 85%o	0.42
0.00	1034' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55938

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.01.01 @ 04:05:00

Tool Information

Drill Pipe:	Length: 4582.00 ft	Diameter: 3.80 inches	Volume: 64.27 bbl	Tool Weight:	2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 64.27 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4590.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4567.00	
Hydraulic tool	5.00			4572.00	
Jars	5.00			4577.00	
Safety Joint	3.00			4580.00	
Packer	5.00			4585.00	28.00 Bottom Of Top Packer
Packer	5.00			4590.00	
Stubb	1.00			4591.00	
Recorder	0.00	8673	Inside	4591.00	
Recorder	0.00	8651	Outside	4591.00	
Perforations	6.00			4597.00	
change Over Sub	1.00			4598.00	
Drill Pipe	31.00			4629.00	
Change Over Sub	1.00			4630.00	
Bullnose	3.00			4633.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 1s 37w Cheyenne,KS

250 N. Water Ste. 300
Wichita KS 67202

Jones B #1-9

Job Ticket: 55938

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.01.01 @ 04:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
94.00	gocm-15%g25%o60%m	1.319
282.00	go-25%g75%o	3.956
30.00	go-15%g 85%o	0.421
0.00	1034' GIP	0.000

Total Length: 406.00 ft

Total Volume: 5.696 bbl

Num Fluid Samples: 0

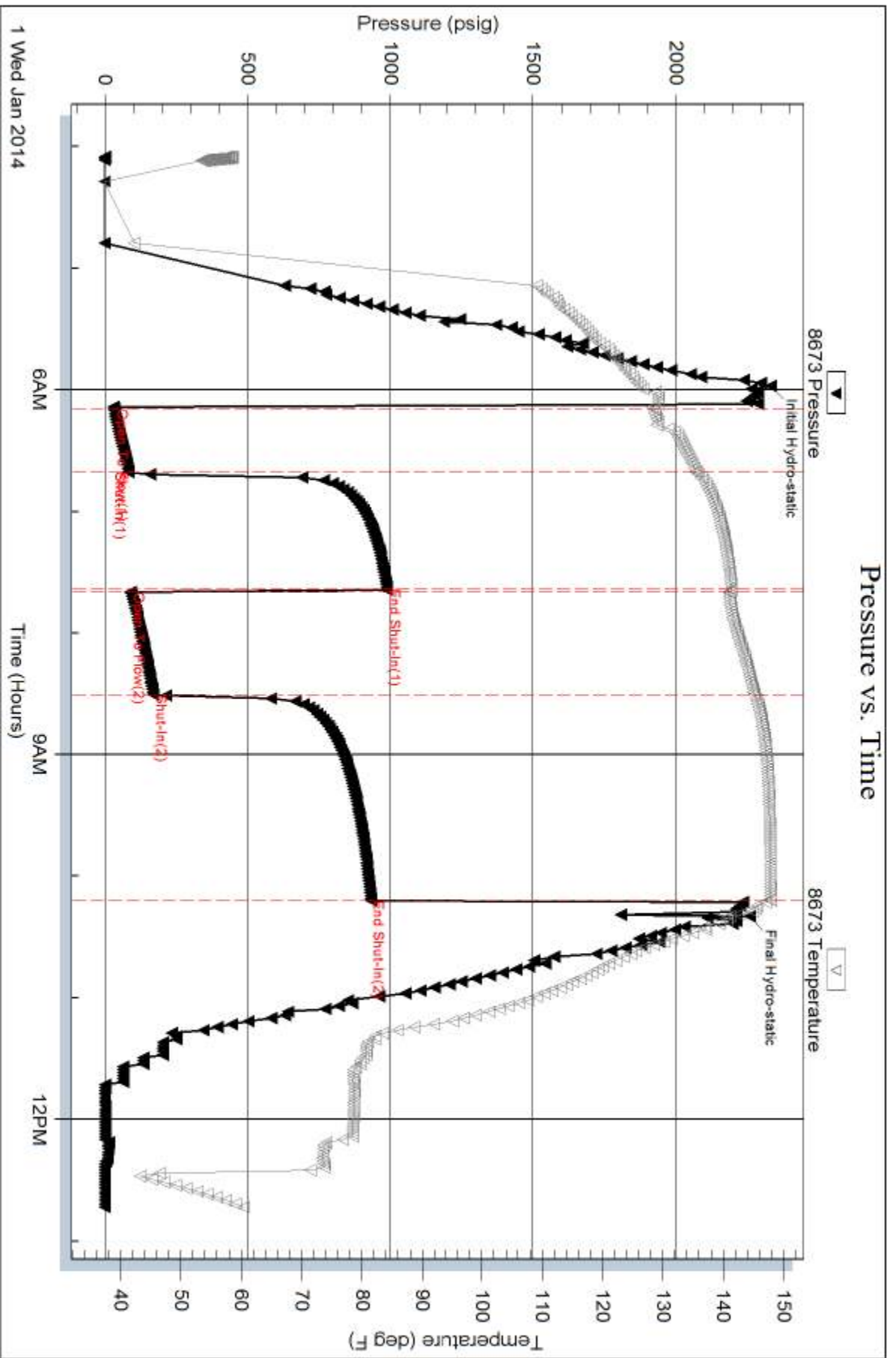
Num Gas Bombs: 0

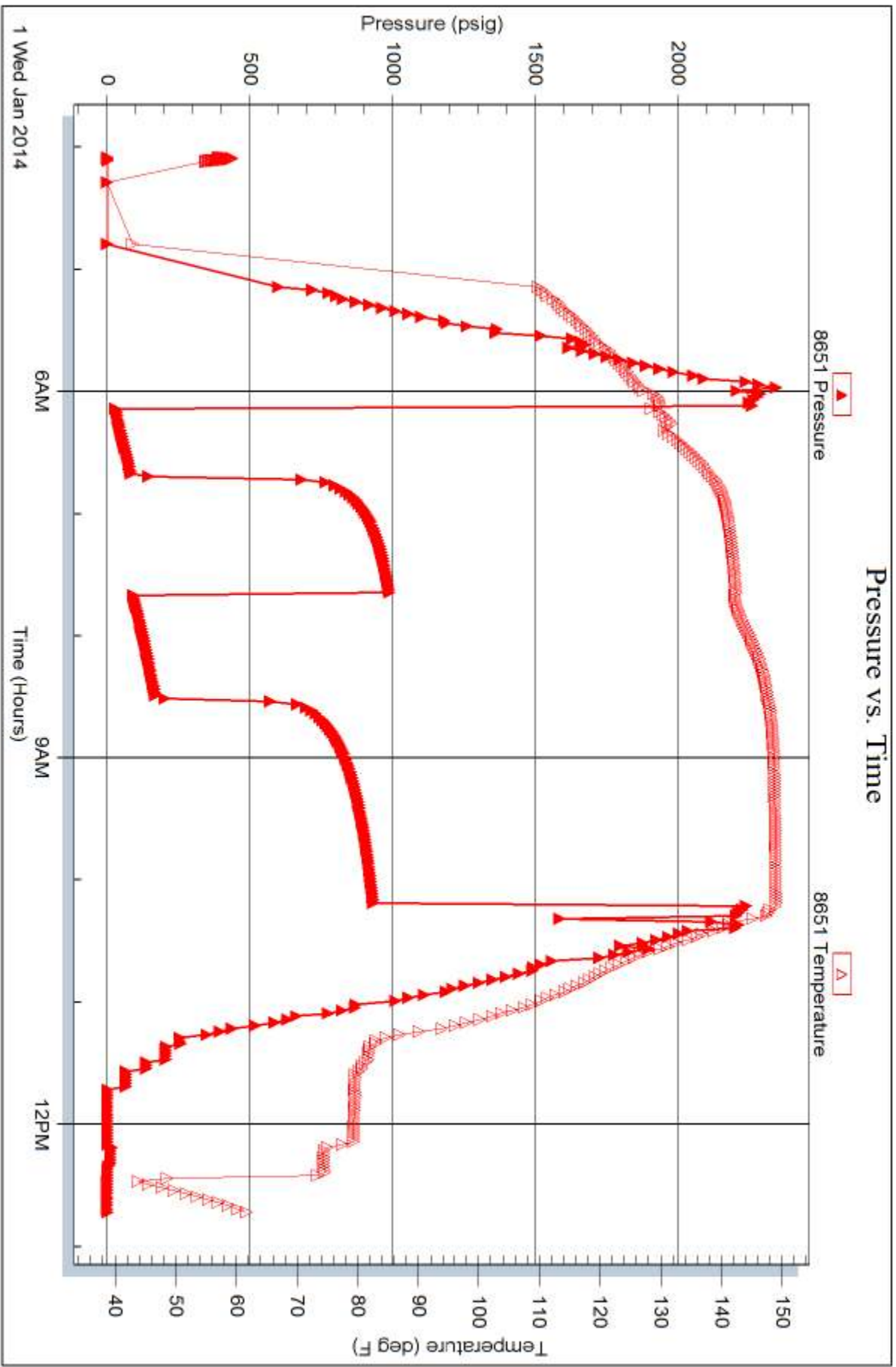
Serial #:

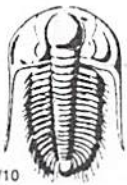
Laboratory Name:

Laboratory Location:

Recovery Comments: API 38@60*







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55934

Well Name & No. Jones' B' #1-a Test No. 1 Date 12-27-13
 Company Murfin Drilling Co. Elevation 3263 KB 3250 GL
 Address 250 N. water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Chuck Schmitz Rig Murfin #25
 Location: Sec. 9 Twp. 1s Rge. 37W Co. Cheyenne State Ks

Interval Tested 3738 3790 Zone Tested Foratler
 Anchor Length 52 Drill Pipe Run 3735 Mud Wt. 8.9
 Top Packer Depth 3735 Drill Collars Run -0- Vis 6.2
 Bottom Packer Depth 3798 Wt. Pipe Run -0- WL 6.0
 Total Depth 3790 Chlorides 800 ppm System LCM 72#

Blow Description IF: Weak blow, Surface Dead in 21 mins.
ISI: No blow back
FF: No blow
FST: No blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>scm</u>	<u>70</u>			<u>30</u>

Rec Total 5 BHT 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1869</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:00</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:40</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:22</u>
(D) Initial Shut-In <u>993</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>00:22</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2:15</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>76x2=152x1.55=235.60</u>	Comments _____
(G) Final Shut-In <u>887</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1772</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1710.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1710.60</u>	

Approved By _____ Our Representative Chuck Schmitz

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.



Well Name & No. Jones 'B' #1-9 Test No. 2 Date 12-29-2013
 Company Murfin Drilling Co. Elevation 3263 KB 3260 GL
 Address 250 N. Water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Chuck Schmitz Rig Murfin #25
 Location: Sec. 9 Twp. 15 Rge. 37W Co. Cheyenne State Ks

Interval Tested 4164 4289 Zone Tested LKC-A-D
 Anchor Length 125 Drill Pipe Run 4164 Mud Wt. 8.3
 Top Packer Depth 4159 Drill Collars Run -0- Vis 65
 Bottom Packer Depth 4164 Wt. Pipe Run -0- WL 11.2
 Total Depth 4289 Chlorides 600 ppm System LCM 8#

Blow Description IF: Weak surface blow, Built to 3/4 in. over 7 mins. started to die. Dead in 25 mins.
FSI: No blow back over 60 mins.
FF: Weak blow, surface Dead in 10 secs.
FST: No blow back over 60 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 127 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2193</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:30</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:20</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:09</u>
(D) Initial Shut-In <u>863</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:13</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:58</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>76x2=152x1.55=235.60</u>	Comments <u>stayed in Benkman Apt.</u>
(G) Final Shut-In <u>816</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2031</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>366.67</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1 day 11 hrs.</u>	Total <u>2177.27</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1810.60</u>	

Approved By _____ Our Representative Chuck Schmitz
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785-259-3186



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55936**

Well Name & No. Jones 'B' #1-9 Test No. 3 Date 12-30-2013
 Company Murfin Drilling Co. Elevation 3263 KB 3250 GL
 Address 250 N. Water St. #300 Wichita KS 67202
 Co. Rep / Geo. Chuck Schmitz Rig Murfin #25
 Location: Sec. 9 Twp. 1S Rge. 37W Co. Cheyenne State KS.

Interval Tested 4302 4400 Zone Tested None
 Anchor Length 98 Drill Pipe Run 4299 Mud Wt. 9.3
 Top Packer Depth 4297 Drill Collars Run -0- Vis 67
 Bottom Packer Depth 4302 Wt. Pipe Run -0- WL 6.6
 Total Depth 4400 Chlorides 700 ppm System LCM 6#

Blow Description IF: Weak blow, Built to 1 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow surface dead in 3 mins.
FSS: No blow back over 60 mins.

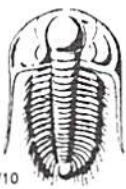
Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>OCM</u>		<u>95</u>		<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 130.5 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2220</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:30</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:43</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:36</u>
(D) Initial Shut-In <u>1327</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>15:35</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:34</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>76 x 2 = 152 x 1.15 = \$235.60</u>	Comments <u>Stayed in Bartles Apt.</u>
(G) Final Shut-In <u>1306</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2163</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2130.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1810.60</u>	

Approved By _____ Our Representative Chuck Schmitz

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55937**

Well Name & No. Jones 'B' #1-a Test No. 4 Date 12-31-2013
 Company Murfin Drilling Co. Elevation 3263 KB 3250 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Chuck Schmitz Rig Murfin #25
 Location: Sec. 9 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4380 4480 Zone Tested LKC-0
 Anchor Length 60 Drill Pipe Run 4322 Mud Wt. 9.3
 Top Packer Depth 4335 Drill Collars Run -0- Vis 67
 Bottom Packer Depth 4340 Wt. Pipe Run -0- WL 6.6
 Total Depth 4400 Chlorides 700 ppm System LCM 6#

Blow Description IF: weak blow built to 3/4 in. over 30 mins.

ISF: No blow back

FF: Weak blow died in 15 mins.

FSF: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 7 BHT 128.2 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2279 Test 1250 T-On Location 1:55
 (B) First Initial Flow 18 Jars 250 T-Started 2:45
 (C) First Final Flow 21 Safety Joint 75 T-Open 4:56
 (D) Initial Shut-In 397 Circ Sub _____ T-Pulled 8:30
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 10:02
 (F) Second Final Flow 19 Mileage 76 x 2 = 152 x 1.55 = 235.00 Comments _____
 (G) Final Shut-In 123 Sampler _____
 (H) Final Hydrostatic 2197 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1810.60
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1810.60

Approved By _____ Our Representative Chuck Schmitz

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55938

Well Name & No. Jones 'B' #1-a Test No. 5 Date 1-1-14
 Company Murfin Drilling Co. Elevation 3263 KB 3250 GL
 Address 250 N. Water Ste. 300 Wichita Ks. 67202
 Co. Rep / Geo. Chuck Schmitz Rig Murfin #25
 Location: Sec. a Twp. 1S Rge. 37W Co. Cherokee State KS

Interval Tested 4590 4633 Zone Tested Cherok
 Anchor Length 43 Drill Pipe Run 4582 Mud Wt. 9.4
 Top Packer Depth 4585 Drill Collars Run -0- Vis 56
 Bottom Packer Depth 4590 Wt. Pipe Run -0- WL 6.8
 Total Depth 4633 Chlorides 700 ppm System LCM 6#

Blow Description IF: Strong blow, Built to B.O.B in 6mins.
ISI: Bled off, Blow back after 1min. Built to 2 1/2 in 30. Started to die. Dead in 50mins.
FF Strong blow, Built to B.O.B in 10mins.
FSI: Bled off, Blow back after 1min. Built to B.O.B in 28mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1034 ft gas in pipe</u>				
<u>30</u>	<u>go #</u>	<u>15</u>	<u>85</u>		
<u>282</u>	<u>go</u>	<u>25</u>	<u>75</u>		
<u>94</u>	<u>go cm</u>	<u>15</u>	<u>25</u>		<u>60</u>

Rec Total 406 BHT 145.1 Gravity 38 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2331 Test 1250 T-On Location 2:55
 (B) First Initial Flow 33 Jars 250 T-Started 4:05
 (C) First Final Flow 83 Safety Joint 75 T-Open 6:04
 (D) Initial Shut-In 986 Circ Sub _____ T-Pulled 10:10
 (E) Second Initial Flow 90 Hourly Standby _____ T-Out 12:43
 (F) Second Final Flow 168 Mileage 76x2 = 152x1.55 = 235 Comments Loaded tools at 2:00pm
 (G) Final Shut-In 930 Sampler _____ on Jan. 1 not released till 12:00
 (H) Final Hydrostatic 2258 Straddle _____ pm on Jan 2

Ruined Shale Packer _____
 Ruined Packer 320
 Extra Copies _____
 Initial Open 30 Extra Packer _____ Sub Total 0
 Initial Shut-In 60 Extra Recorder _____ Total 2130.60
 Final Flow 60 Day Standby _____ MP/DST Disc't _____
 Final Shut-In 90 Accessibility _____
 Sub Total 1810.60

Approved By _____ Our Representative Chuck Schmitz

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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/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

April 30, 2014

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

Re: ACO-1
API 15-023-21375-00-00
Jones 'B' 1-9
SW/4 Sec.09-01S-37W
Cheyenne County, Kansas

Dear Rob Kramer:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/16/2013 and the ACO-1 was received on April 22, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department