



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1250905  
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: \_\_\_\_\_



1250905

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration LLC**

204 W Mill St  
Plainville KS 67663

ATTN: Chris Bean

**LN #23-1**

**23-15s-23w Trego,KS**

Start Date: 2014.12.06 @ 06:10:56

End Date: 2014.12.06 @ 14:41:05

Job Ticket #: 60695                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.11 @ 09:27:53



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration LLC

**23-15s-23w Trego, KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

ATTN: Chris Bean

Job Ticket: 60695

**DST#: 1**

Test Start: 2014.12.06 @ 06:10:56

## GENERAL INFORMATION:

Formation: **Cherokee Sand.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:09:16

Time Test Ended: 14:41:05

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

**Interval: 4170.00 ft (KB) To 4254.00 ft (KB) (TVD)**

Reference Elevations: 2288.00 ft (KB)

Total Depth: 4254.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 237.14 psig @ 4171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.06

End Date:

2014.12.06

Last Calib.:

2014.12.06

Start Time: 06:10:57

End Time:

14:41:06

Time On Btm:

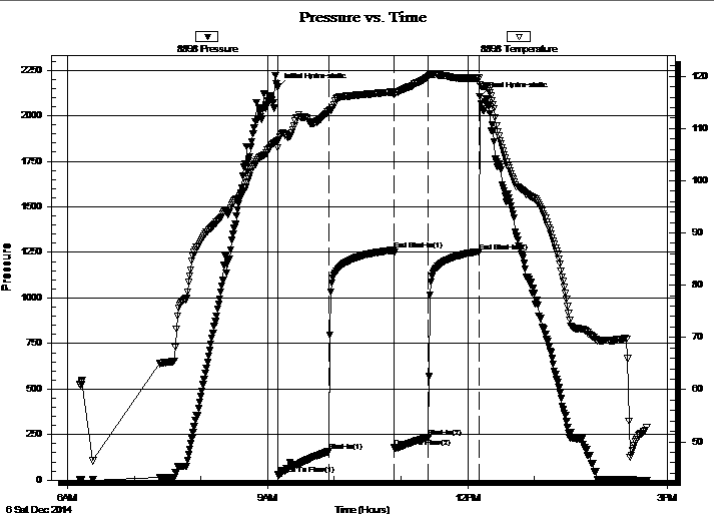
2014.12.06 @ 09:09:06

Time Off Btm:

2014.12.06 @ 12:10:56

**TEST COMMENT:** 45-B.O.B. in 15 mins  
60-Dead no blow back  
30-B.O.B. in 16 mins  
45-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.27	107.71	Initial Hydro-static
1	31.42	106.39	Open To Flow (1)
47	157.24	113.43	Shut-In(1)
105	1263.04	117.01	End Shut-In(1)
105	181.66	116.51	Open To Flow (2)
136	237.14	119.90	Shut-In(2)
181	1253.79	119.67	End Shut-In(2)
182	2105.98	118.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	100%M w ith oil spots	2.67
60.00	SWCM 25%W 75%M	0.84
180.00	MCW 45%M 55%W	2.52

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

StrataKan Exploration LLC

**23-15s-23w Trego, KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60695

**DST#: 1**

ATTN: Chris Bean

Test Start: 2014.12.06 @ 06:10:56

## Tool Information

Drill Pipe:	Length: 4147.00 ft	Diameter: 3.80 inches	Volume: 58.17 bbl	Tool Weight: 2200.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 58.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4170.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	2.00			4160.00	
Packer	5.00			4165.00	27.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	8897	Inside	4171.00	
Recorder	0.00	8898	Outside	4171.00	
Perforations	15.00			4186.00	
Change Over Sub	1.00			4187.00	
Drill Pipe	63.00			4250.00	
Change Over Sub	1.00			4251.00	
Bullnose	3.00			4254.00	84.00 Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

StrataKan Exploration LLC

**23-15s-23w Trego,KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60695

**DST#: 1**

ATTN: Chris Bean

Test Start: 2014.12.06 @ 06:10:56

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	100%M w ith oil spots	2.665
60.00	SWCM 25%W 75%M	0.842
180.00	MCW 45%M 55%W	2.525

Total Length: 430.00 ft      Total Volume: 6.032 bbl

Num Fluid Samples: 0

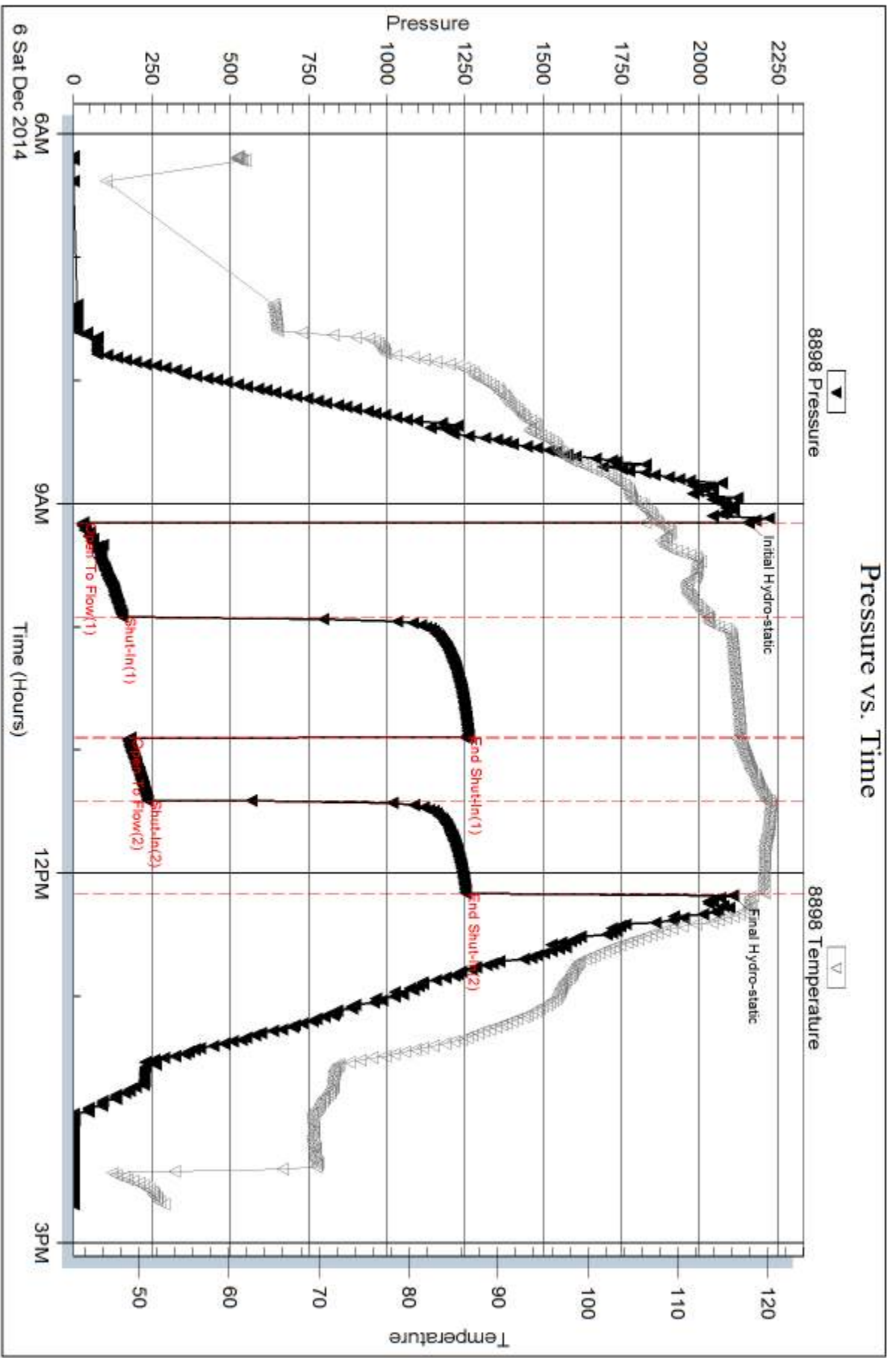
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .231 @ 50 F = 42000





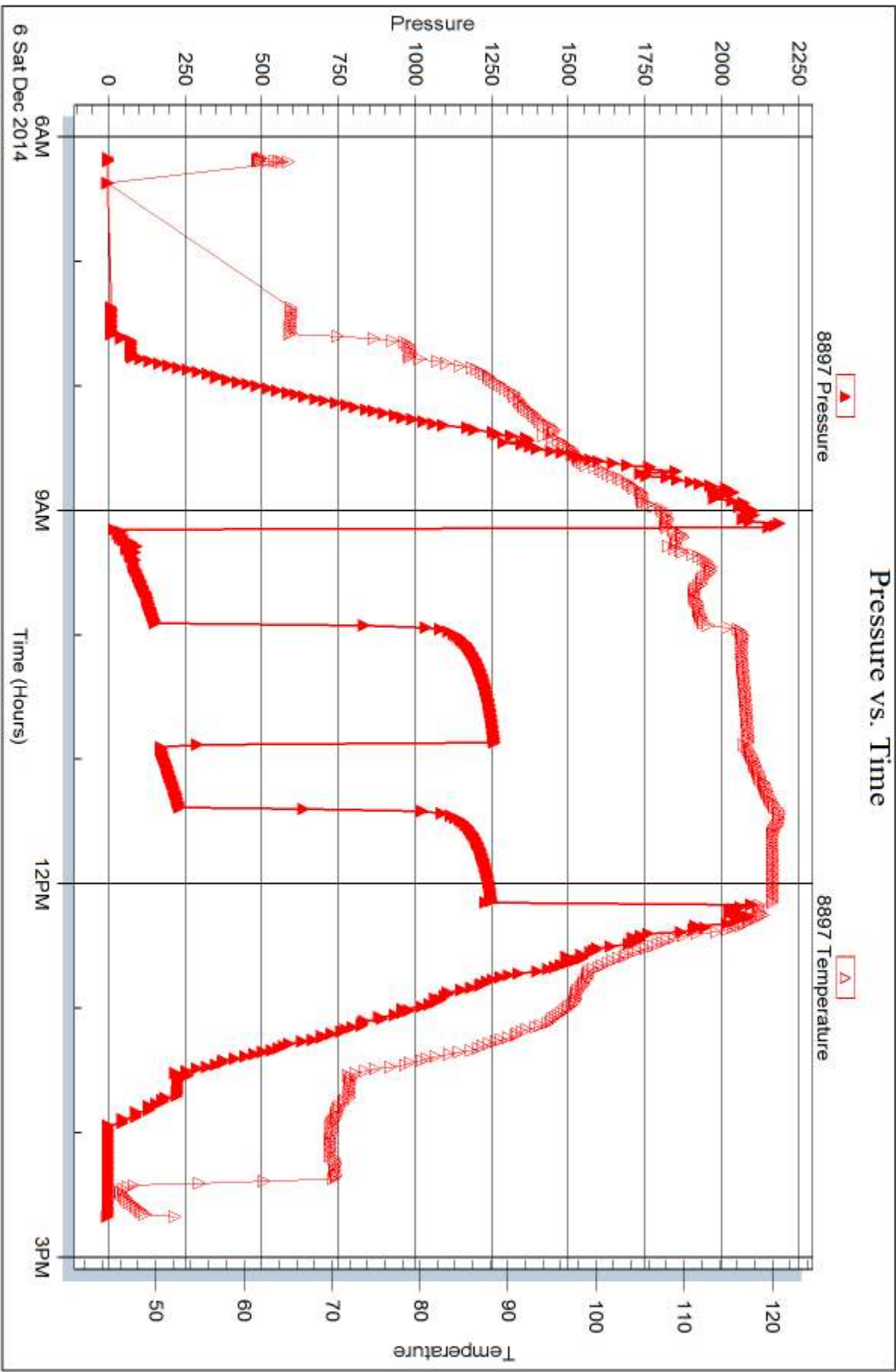
Serial #: 8897

Inside

StrataKan Exploration LLC

LN#23-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration LLC**

204 W Mill St  
Plainville KS 67663

ATTN: Chris Bean

**LN #23-1**

**23-15s-23w Trego,KS**

Start Date: 2014.12.07 @ 00:00:22

End Date: 2014.12.07 @ 06:29:31

Job Ticket #: 60696                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.11 @ 09:27:33



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration LLC

**23-15s-23w Trego, KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60696

**DST#: 2**

ATTN: Chris Bean

Test Start: 2014.12.07 @ 00:00:22

## GENERAL INFORMATION:

Formation: **Cherokee Sd - Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:59:22

Time Test Ended: 06:29:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

**Interval: 4169.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Reference Elevations: 2288.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: psig @ 4170.00 ft (KB)

Start Date: 2014.12.07

End Date:

2014.12.07

Start Time: 00:00:23

End Time:

06:29:32

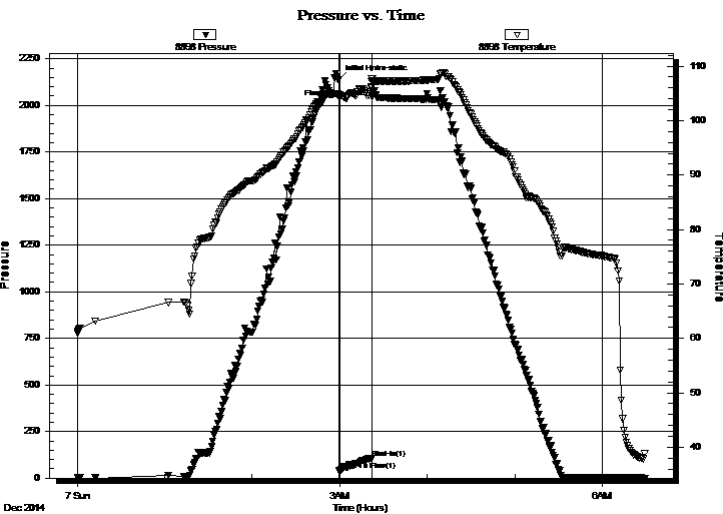
Capacity: 8000.00 psig

Last Calib.: 2014.12.07

Time On Btm: 2014.12.07 @ 02:59:02

Time Off Btm: 2014.12.07 @ 03:21:52

TEST COMMENT: 20- B.O.B In 13 mins  
Pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.01	104.93	Initial Hydro-static
1	42.98	104.32	Open To Flow (1)
23	106.86	106.18	Shut-In(1)
23	2127.33	107.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	100%M	2.10

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

StrataKan Exploration LLC

**23-15s-23w Trego,KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60696

**DST#: 2**

ATTN: Chris Bean

Test Start: 2014.12.07 @ 00:00:22

## GENERAL INFORMATION:

Formation: **Cherokee Sd - Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:59:22

Time Test Ended: 06:29:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

**Interval: 4169.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Reference Elevations: 2288.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

**Serial #: 8897** Inside

Press@RunDepth: psig @ 4170.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.07

End Date:

2014.12.07

Last Calib.:

2014.12.07

Start Time: 00:00:31

End Time:

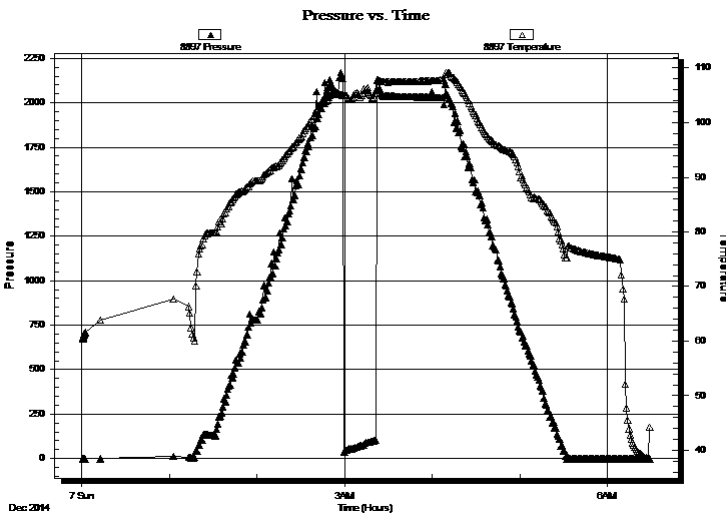
06:29:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 20- B.O.B In 13 mins  
Pulled tool

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	100%M	2.10

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

StrataKan Exploration LLC

**23-15s-23w Trego,KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60696

**DST#: 2**

ATTN: Chris Bean

Test Start: 2014.12.07 @ 00:00:22

## Tool Information

Drill Pipe:	Length: 4148.00 ft	Diameter: 3.80 inches	Volume: 58.19 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.19 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4169.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	118.00 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			4147.00	
Hydraulic tool	5.00			4152.00	
Jars	5.00			4157.00	
Safety Joint	2.00			4159.00	
Packer	5.00			4164.00	27.00 Bottom Of Top Packer
Packer	5.00			4169.00	
Stubb	1.00			4170.00	
Recorder	0.00	8897	Inside	4170.00	
Recorder	0.00	8898	Outside	4170.00	
Perforations	22.00			4192.00	
Change Over Sub	1.00			4193.00	
Drill Pipe	63.00			4256.00	
Change Over Sub	1.00			4257.00	
Bullnose	3.00			4260.00	91.00 Bottom Packers & Anchor

**Total Tool Length: 118.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

StrataKan Exploration LLC

**23-15s-23w Trego,KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60696

**DST#: 2**

ATTN: Chris Bean

Test Start: 2014.12.07 @ 00:00:22

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	100%M	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

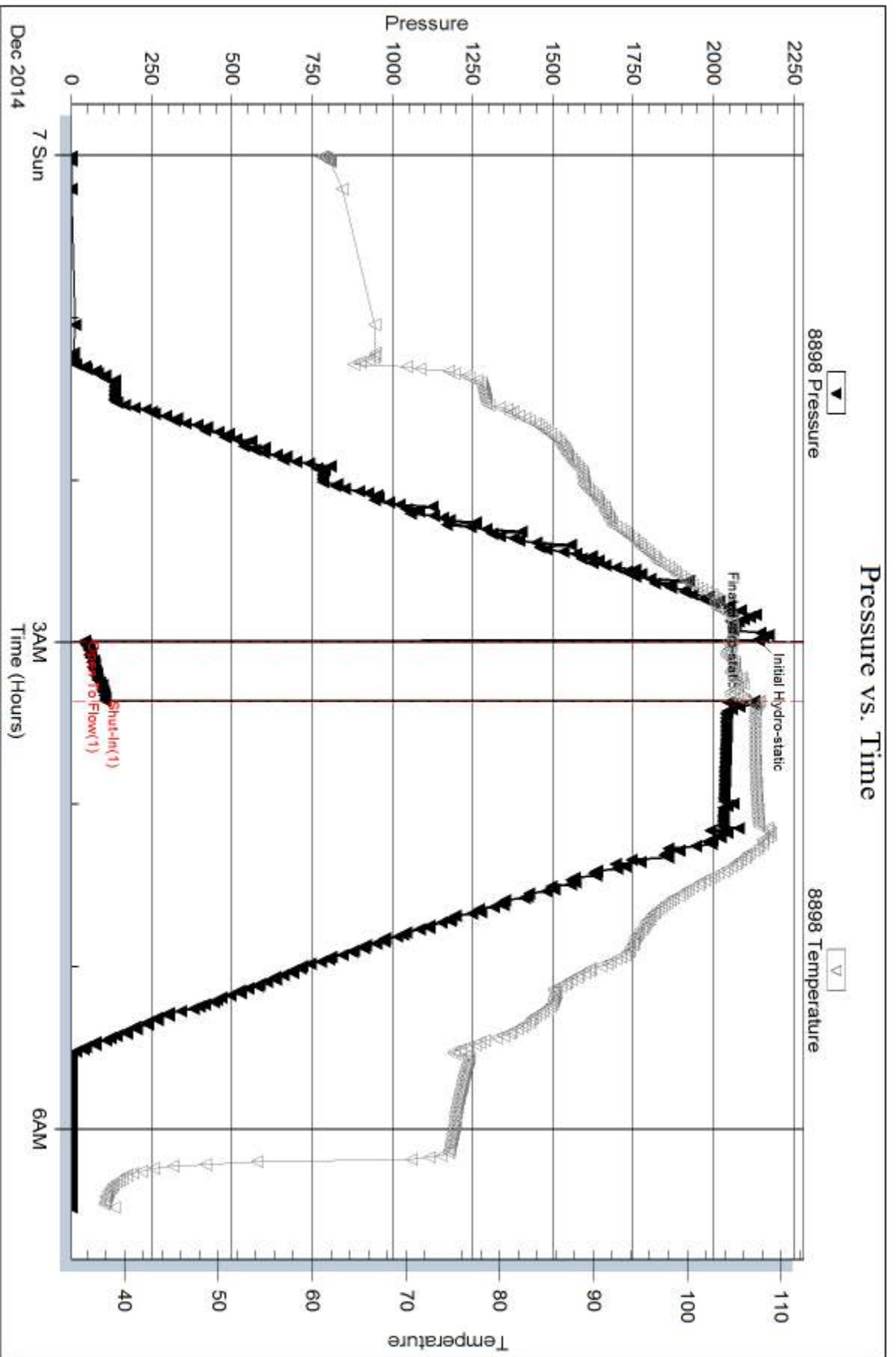
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



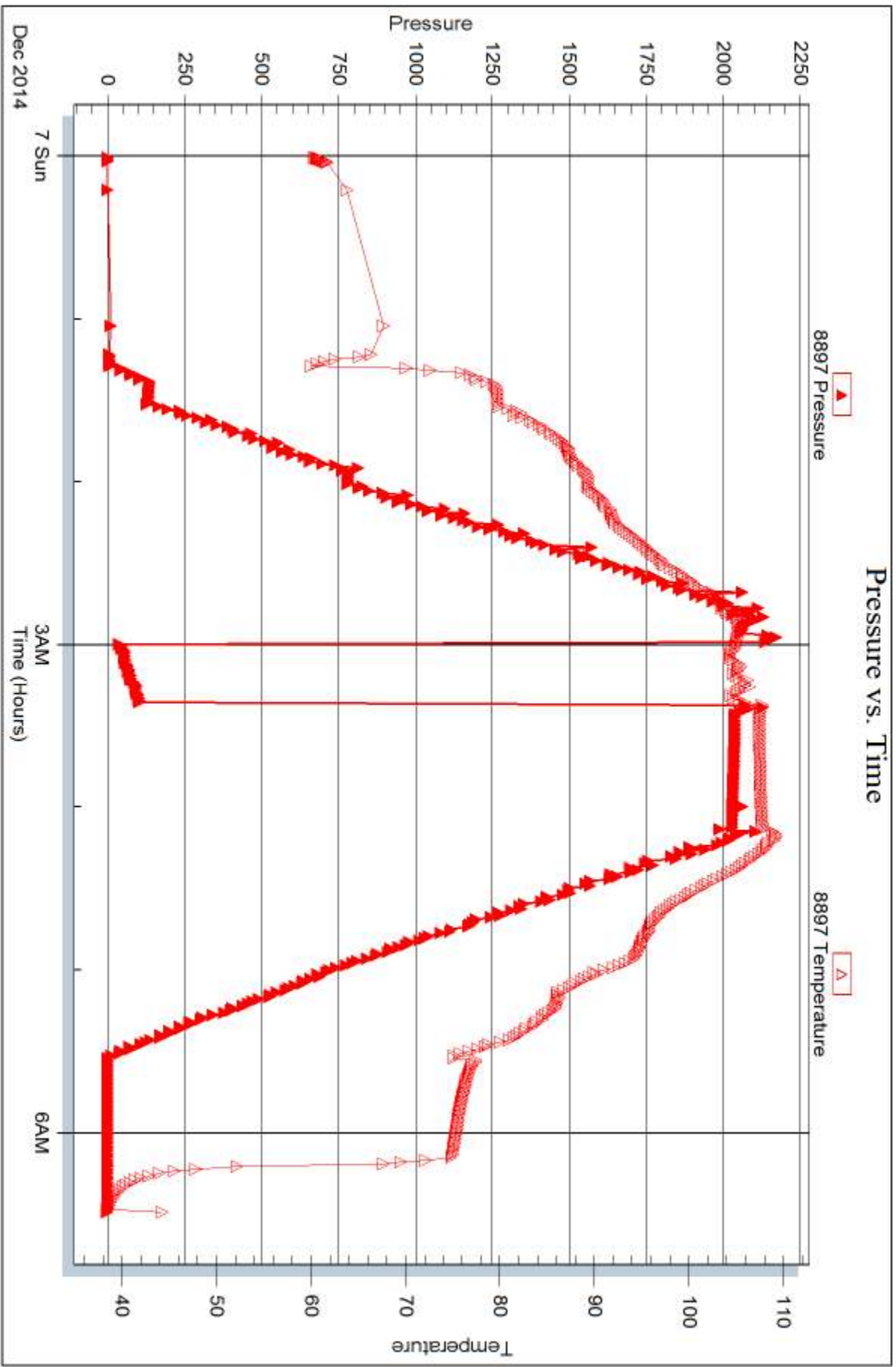
Serial #: 8897

Inside

StrataKan Exploration LLC

LN#23-1

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration LLC**

204 W Mill St  
Plainville KS 67663

ATTN: Chris Bean

**LN #23-1**

**23-15s-23w Trego,KS**

Start Date: 2014.12.08 @ 12:24:52

End Date: 2014.12.08 @ 19:39:22

Job Ticket #: 60697                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.11 @ 09:26:50



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

StrataKan Exploration LLC

**23-15s-23w Trego, KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60697

**DST#: 3**

ATTN: Chris Bean

Test Start: 2014.12.08 @ 12:24:52

## GENERAL INFORMATION:

Formation: **Cherk. Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:43:42

Time Test Ended: 19:39:22

Test Type: Conventional Straddle (Reset)

Tester: Tate Lang

Unit No: 77

**Interval: 4170.00 ft (KB) To 4249.00 ft (KB) (TVD)**

Reference Elevations: 2288.00 ft (KB)

Total Depth: 4351.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 74.55 psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.08

End Date:

2014.12.08

Last Calib.:

2014.12.08

Start Time: 12:24:53

End Time:

19:39:22

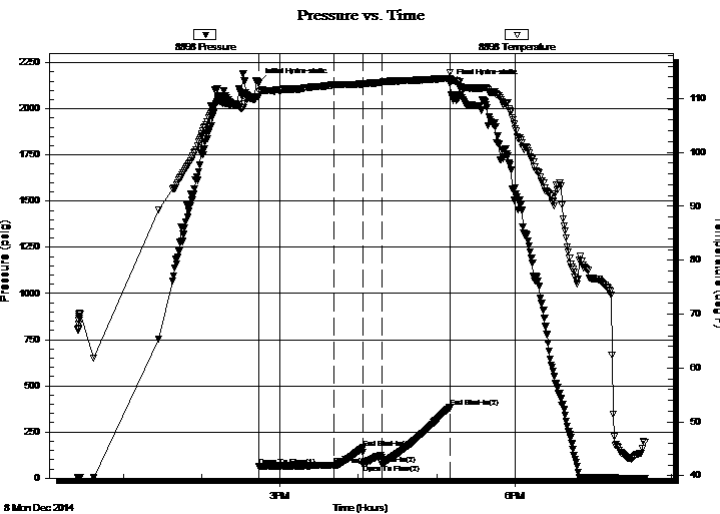
Time On Btm:

2014.12.08 @ 14:43:22

Time Off Btm:

2014.12.08 @ 17:10:12

**TEST COMMENT:** 60-Weak surface blow built to 2 1/2" Bled off to see if plugged came back with weak surface blow  
20-Dead no blow back  
15-Dead no blow  
60-Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.62	110.40	Initial Hydro-static
1	61.96	110.41	Open To Flow (1)
58	69.86	112.53	Shut-In(1)
80	163.81	112.68	End Shut-In(1)
81	74.19	112.64	Open To Flow (2)
95	74.55	113.02	Shut-In(2)
147	383.08	113.74	End Shut-In(2)
147	2136.53	114.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	100%M with oil spots	0.63

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

StrataKan Exploration LLC

**23-15s-23w Trego,KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60697

**DST#: 3**

ATTN: Chris Bean

Test Start: 2014.12.08 @ 12:24:52

## Tool Information

Drill Pipe:	Length: 4175.00 ft	Diameter: 3.80 inches	Volume: 58.56 bbl	Tool Weight: 2200.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 58.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4170.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	4249.00 ft			
Interval between Packers:	79.00 ft			
Tool Length:	213.00 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			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	2.00			4160.00	
Packer	5.00			4165.00	27.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
perforations	3.00			4174.00	
Change Over Sub	1.00			4175.00	
Drill Pipe	63.00			4238.00	
Change Over Sub	1.00			4239.00	
Recorder	0.00	8897	Inside	4239.00	
Recorder	0.00	8898	Outside	4239.00	
Perforations	5.00			4244.00	
Blank Off Sub	1.00			4245.00	
Blank spacing	4.00			4249.00	
Packer	5.00			4254.00	
Stubb	1.00			4255.00	79.00 Tool Interval
Packer	5.00			4260.00	
Perforations	28.00			4288.00	
Recorder	0.00	8354	Below	4288.00	
Change Over Sub	1.00			4289.00	
Drill Pipe	63.00			4352.00	
Change Over Sub	1.00			4353.00	
Bullnose	3.00			4356.00	107.00 Bottom Packers & Anchor

**Total Tool Length: 213.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

StrataKan Exploration LLC

**23-15s-23w Trego,KS**

204 W Mill St  
Plainville KS 67663

**LN #23-1**

Job Ticket: 60697

**DST#: 3**

ATTN: Chris Bean

Test Start: 2014.12.08 @ 12:24:52

## 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: 42.00 sec/qt

Cushion Volume: bbl

Water Loss: 12.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	100%M w ith oil spots	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

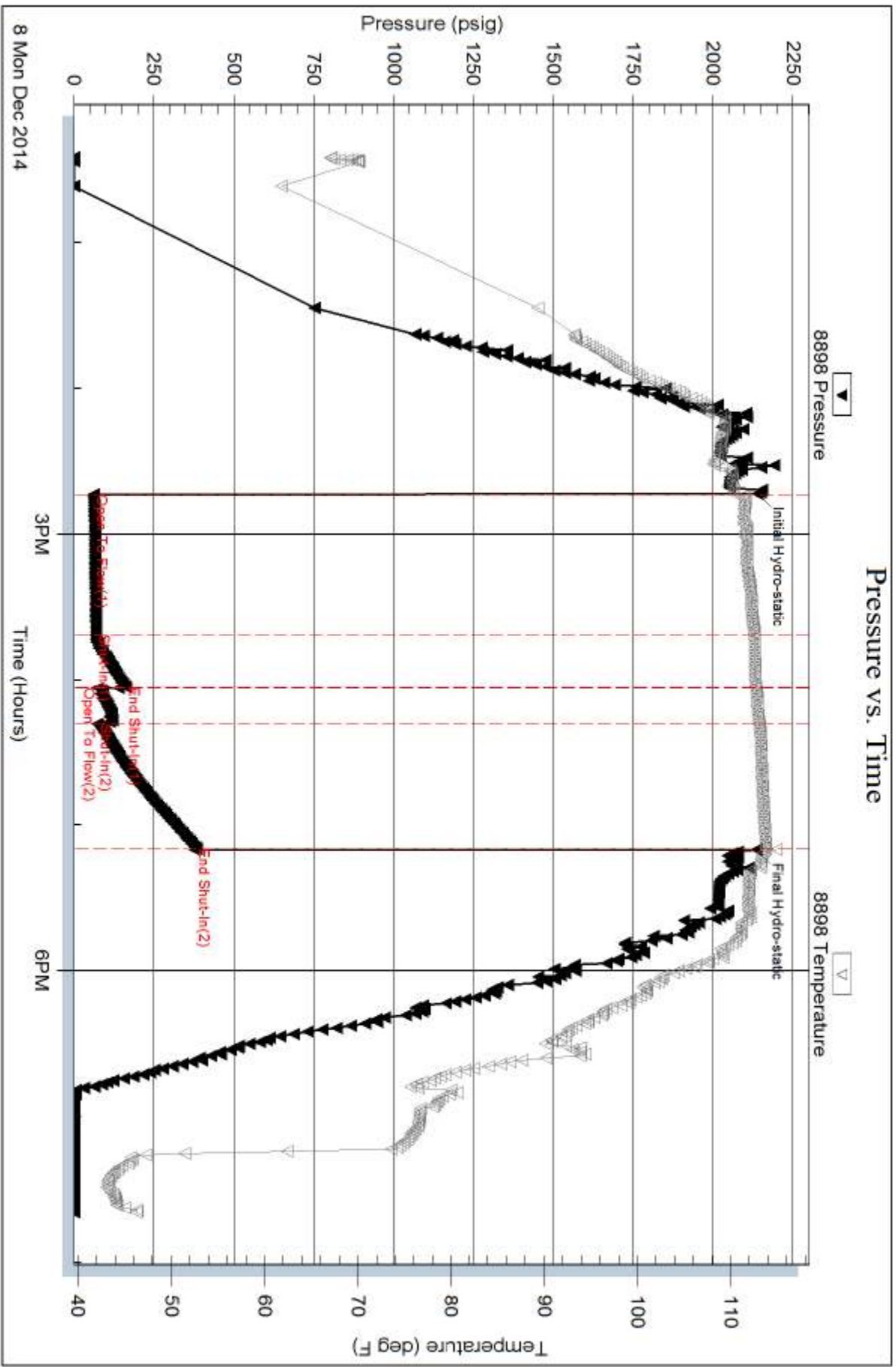
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



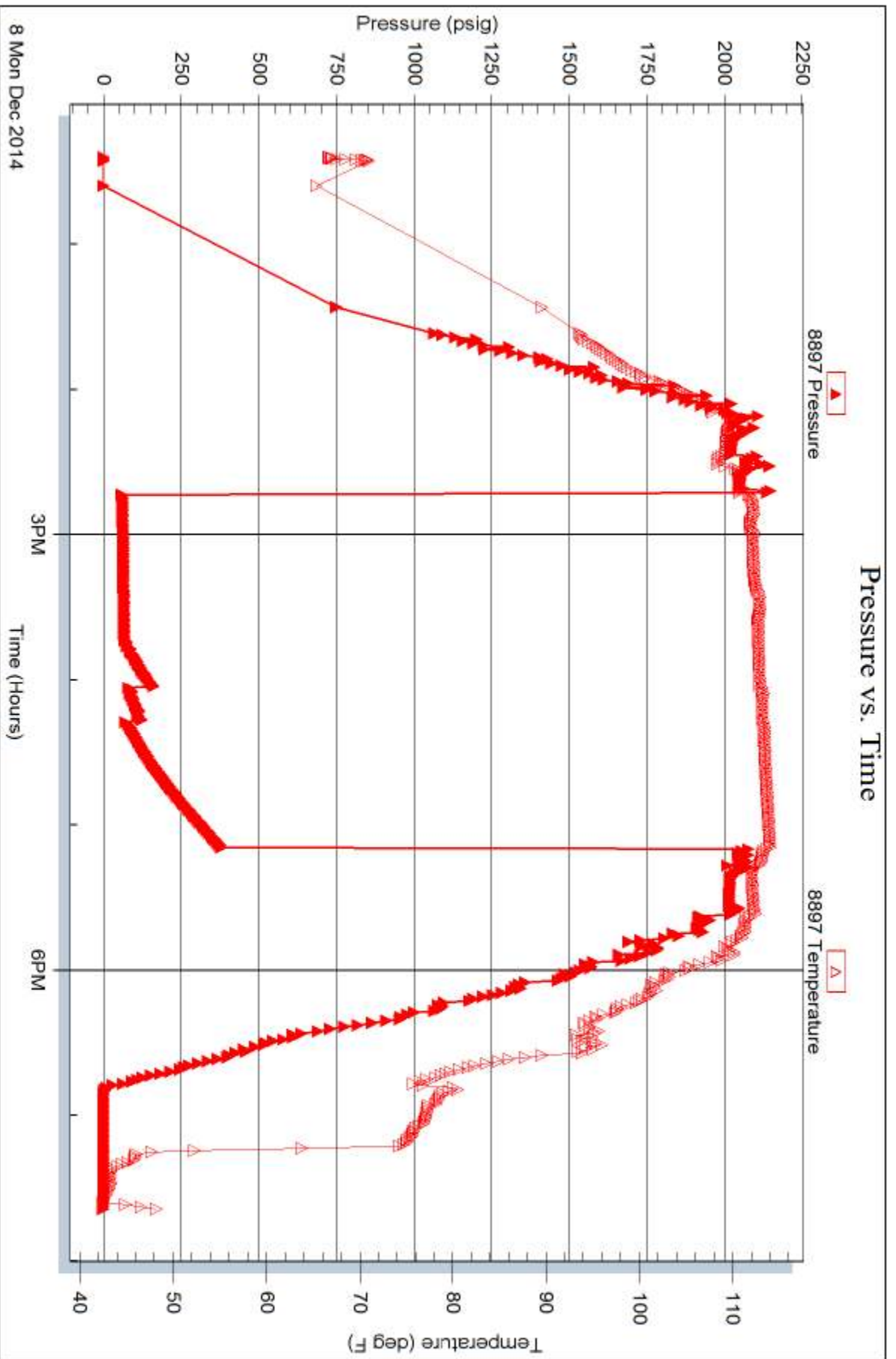
Serial #: 8897

Inside

StrataKan Exploration LLC

LN#23-1

DST Test Number: 3

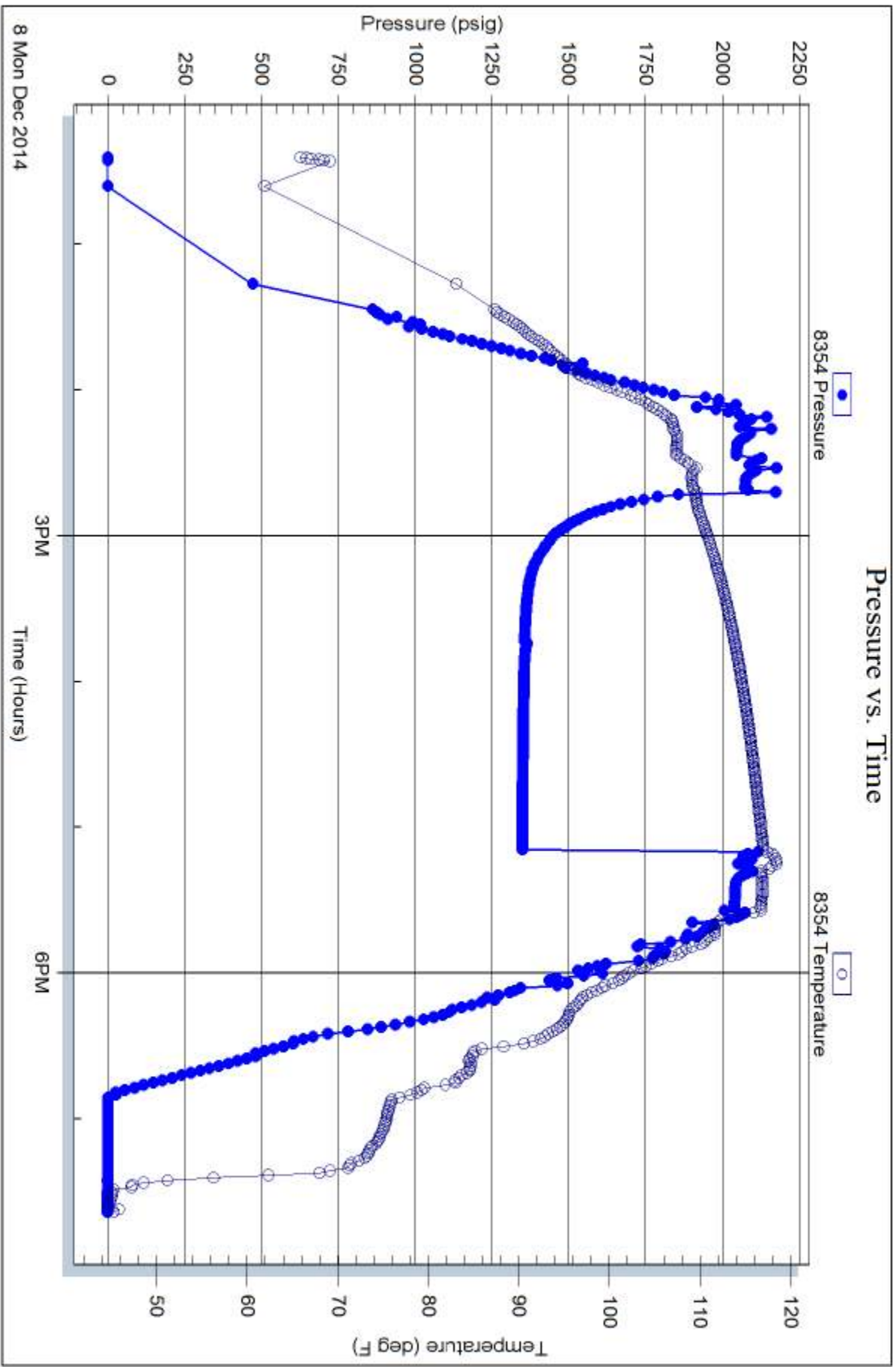


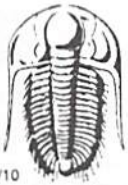
Tribble Testing, Inc

Ref. No: 60897

Printed: 2014.12.11 @ 09:26:52







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60695

Well Name & No. LN #23-1 Test No. 1 Date 12-6-14  
 Company Stratakan Exploration LLC Elevation 2288 KB 2283 GL  
 Address 204 W Mill St Plainville KS 67662  
 Co. Rep / Geo. Chris Bean Rig White Knight  
 Location: Sec. 23 Twp. 15S Rge. 23W Co. Trego State KS

Interval Tested 4170 4254 Zone Tested Cherokee Sd.  
 Anchor Length 84 Drill Pipe Run 4147 Mud Wt. 9.5  
 Top Packer Depth 4165 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 4170 Wt. Pipe Run 0 WL 12  
 Total Depth 4254 Chlorides 8000 ppm System LCM 1 1/2 #

Blow Description B.O.B. FN 15 mins  
Dead no blow back  
B.O.B. FN 16 mins  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>190</u>	Feet of <u>Mud / Oil spots</u>				<u>100</u> %mud
Rec <u>60</u>	Feet of <u>SWCM</u>			<u>25</u> %water	<u>75</u> %mud
Rec <u>180</u>	Feet of <u>MCW</u>			<u>55</u> %water	<u>45</u> %mud

Rec Total 430 BHT 120 Gravity \_\_\_\_\_ API RW 231 @ 50 ° F Chlorides 42000 ppm

(A) Initial Hydrostatic 2154  Test 1250 T-On Location 0435  
 (B) First Initial Flow 31  Jars 250 T-Started 7:10  
 (C) First Final Flow 157  Safety Joint 75 T-Open 0908  
 (D) Initial Shut-In 1263  Circ Sub \_\_\_\_\_ T-Pulled 1208  
 (E) Second Initial Flow 182  Hourly Standby \_\_\_\_\_ T-Out 1441  
 (F) Second Final Flow 237  Mileage 115 R/T 178.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 1254  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2106  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 45  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1753.25  
 Sub Total 1753.25  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60696

4/10

Well Name & No. LN #23-1 Test No. 2 Date 12-7-14  
 Company Stratcan Exploration LLC Elevation 2288 KB 2283 GL  
 Address 204 S Mill St. Plainville KS 67663  
 Co. Rep / Geo. Chris Bear Rig White Knight  
 Location: Sec. 23 Twp. 155 Rge. 23W Co. Trego State KS

Interval Tested 4169 4260 Zone Tested Chert sd/miss.  
 Anchor Length 91 Drill Pipe Run 4148 Mud Wt. 9.6  
 Top Packer Depth 4164 Drill Collars Run 0 Vis 42  
 Bottom Packer Depth 4169 Wt. Pipe Run 0 WL 11.6  
 Total Depth 4260 Chlorides 6000 ppm System LCM 1 1/2 #

Blow Description B.O.B. IN 13 mins  
Pulled @ 700'

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>150</u>	Feet of <u>mud</u>	%gas	%oil	%water <u>150</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2139  Test 1250 T-On Location 2210 (R-6-14)  
 (B) First Initial Flow 43  Jars 250 T-Started 3000  
 (C) First Final Flow 107  Safety Joint 75 T-Open 0300  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 0320  
 (E) Second Initial Flow NA  Hourly Standby \_\_\_\_\_ T-Out 0629  
 (F) Second Final Flow \_\_\_\_\_  Mileage 178.25 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2127  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 20  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In Pulled Tool  Day Standby \_\_\_\_\_ Total 1753.25  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1753.25

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60697

Well Name & No. LN # 23-1 Test No. 3 Date 12-8-14  
 Company Stratahan Exploration LLC Elevation 2288 KB 2283 GL  
 Address 264 S Mill St Plainville KS 67663  
 Co. Rep / Geo. Chris Bean Rig White Knight  
 Location: Sec. 23 Twp. 15S Rge. 23W Co. Trego State KS

Interval Tested 4170 4249 Zone Tested Cherk SD  
 Anchor Length 79' 102 Tail Drill Pipe Run 4175 Mud Wt. 9.1  
 Top Packer Depth 4165 Drill Collars Run 0 Vis 4.2  
 Bottom Packer Depth 4170 Wt. Pipe Run 0 WL 121.4  
 Total Depth 4351 Chlorides 6000 ppm System LCM 1#  
 Blow Description Weak surface blow built to 2 1/2 in bleed off to see if plugged come back with dead no blow back  
Dead no blow  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>45</u>	Feet of <u>mud / oil spots</u>				<u>45</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 114 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2140  Test 1250 T-On Location 11:45  
 (B) First Initial Flow 62  Jars 250 T-Started 12:24  
 (C) First Final Flow 70  Safety Joint 75 T-Open 14:42  
 (D) Initial Shut-In 164  Circ Sub \_\_\_\_\_ T-Pulled 17:07  
 (E) Second Initial Flow 74  Hourly Standby \_\_\_\_\_ T-Out 19:37  
 (F) Second Final Flow 75  Mileage 178.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 383  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 216 237  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer 200  Extra Copies \_\_\_\_\_  
 Initial Open 60  Extra Recorder \_\_\_\_\_ Sub Total 175  
 Initial Shut-In 20  Day Standby 1d 5.25h Total 2978.25  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 50  Sub Total 2803.25

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.

# GLOBAL CEMENTING, L.L.C.

1525

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell KS

DATE <u>11-30-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>LN</u>	WELL #. <u>23-1</u>		LOCATION			COUNTY <u>Trego</u>	STATE <u>KS</u>
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR White Knight Drilling Rig A1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 3/4" T.D. 221  
 CASING SIZE 8 5/8" DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS  
 DISPLACEMENT

OWNER  
 CEMENT AMOUNT ORDERED 150 sks 3% @ 2% gel

EQUIPMENT  
 PUMP TRUCK CEMENTER  Cody   
 #  P1  HELPER  Brad   
 BULK TRUCK  
 #  BV  DRIVER  JUSCAN   
 BULK TRUCK  
 # DRIVER

COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

REMARKS:

Run 5 joints of 8 5/8 casing + Landing joint EST  
Circulation hooked up pumped 150 sks cement  
Cement displaced 12 3/4 lbs of H<sub>2</sub>O shut  
100 + 200 psi

SERVICE

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 46 \_\_\_\_\_ @ \_\_\_\_\_  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

CHARGE TO: Stora-akan  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

Global Cementing, L.L.C.,  
 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 \_\_\_\_\_  
 SIGNATURE Terry Auster

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# GLOBAL CEMENTING, L.L.C.

1553

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

DATE <u>12-9-2014</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>LN</u>	WELL #. <u>231</u>		LOCATION			COUNTY <u>TREGO</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR WHITE KNIGHT

TYPE OF JOB P+A

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 5/8 DEPTH 4254'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 240 SX 60/40 POZ  
4% GEL w/ 1/16 FLUOSEAL

EQUIPMENT

PUMP TRUCK CEMENTER BRAD  
# PI HELPER BUD

BULK TRUCK DRIVER MARIC  
# BI

BULK TRUCK DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

1ST - 50 SX @ 1700'

2ND - 100 SX @ 785'

3RD - 50 SX @ 270'

4th - 10 SX @ 40'  
30SX IN PATHOLE

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE 46 @

MANIFOLD @

TOTAL

CHARGE TO: STIKARAW

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Global Cementing, L.L.C.,  
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

SIGNATURE JA

Dry hole Plug @

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

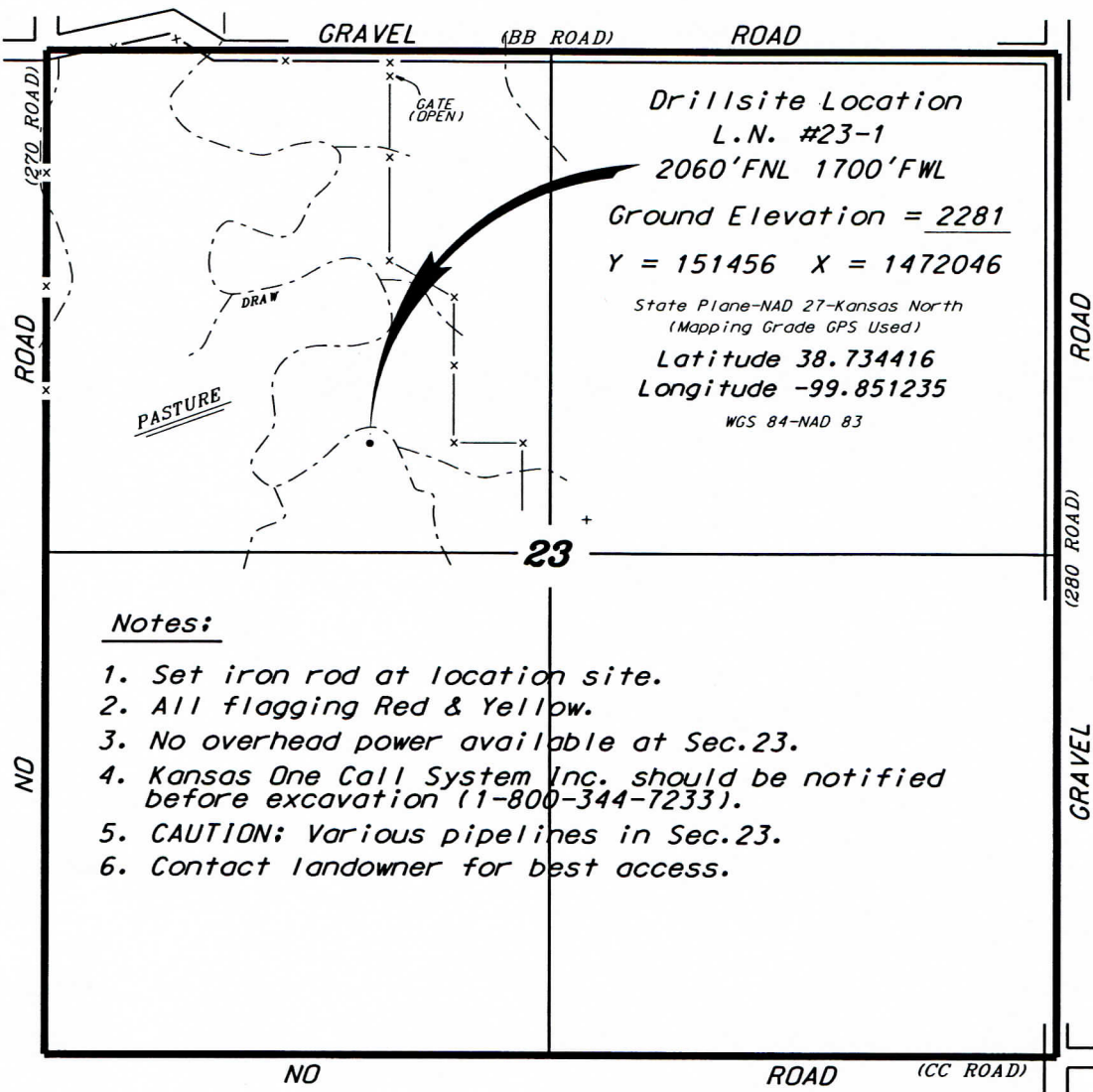
DISCOUNT IF PAID IN 30 DAYS

## Structural Position Chart

LN 23-1 N/2 Section 23 15s-23w, 2060' FNL 1700' FWL Objective: Mississippian, Cherokee, Ft Scott, Lansing?

Final	E LOG FINAL							
Formation	Angle Exploration #1 Kraft		Coral Coast Pet #1 Joan		LN 23-1		Position R1	Position R2
Stone Corral	1766	+593	1732	+633	1683	+605	12+	-28
Topeka	Call was incorrect/useless		Not Called		3447	-1159	No	No
Heebner	3716	-1357	3723	-1358	3653	-1365	-8	-7
Toronto	3735	-1376	3743	-1378	3668	-1380	-4	-2
Lansing	3754	-1395	3760	-1395	3689	-1401	-6	-6
BKC	4023	-1664	4026	-1661	3961	-1673	-9	-12
Pawnee	4132	-1773	4130	-1765	4052	-1764	9+	1+
Fort Scott	4226	-1867	4222	-1857	4153	-1865	2+	-8
Cherokee Shale	4248	-1889	4242	-1877	4176	-1888	1+	-11
Cherokee Sand	Not Present		4308	-1943	4223	-1935	no	8+
Conglomerate	4288	-1929	Not Present		no			
Mississippian	4308	-1949	4328	-1963	4241	-1953	-4	10+

**STRATAKAN EXPLORATION, LLC**  
**L.N. LEASE**  
**NW. 1/4, SECTION 23, T15S, R23W**  
**TREGO COUNTY, KANSAS**

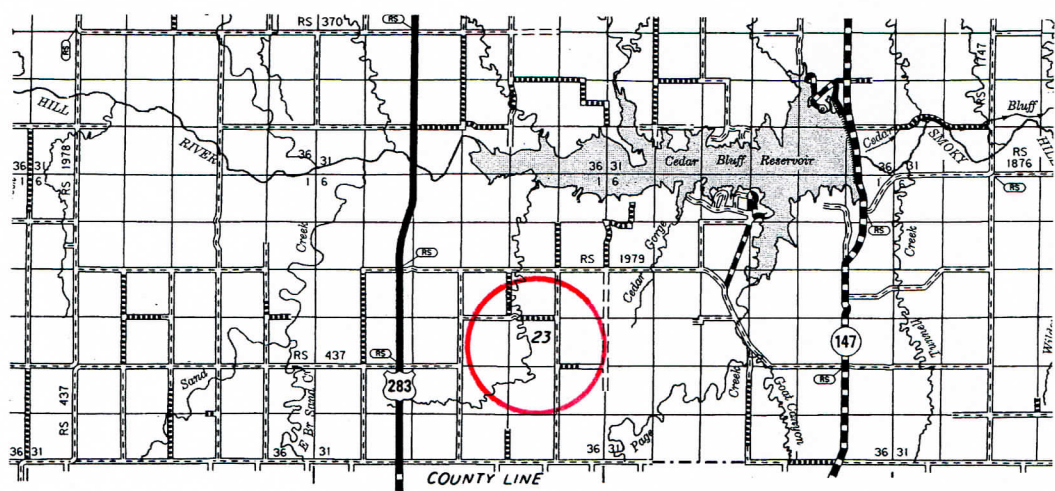


**Drillsite Location**  
**L.N. #23-1**  
**2060'FNL 1700'FWL**  
**Ground Elevation = 2281**  
**Y = 151456 X = 1472046**  
 State Plane-NAD 27-Kansas North  
 (Mapping Grade GPS Used)  
**Latitude 38.734416**  
**Longitude -99.851235**  
 WGS 84-NAD 83

**Notes:**

1. Set iron rod at location site.
2. All flagging Red & Yellow.
3. No overhead power available at Sec.23.
4. Kansas One Call System Inc. should be notified before excavation (1-800-344-7233).
5. CAUTION; Various pipelines in Sec.23.
6. Contact landowner for best access.

\*Ingress and egress to location as shown on this plot is per usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.



\* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.  
 \* Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plot and all other parties relying thereon agree to hold Central Kansas Oilfield Services, Inc., its officers and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.  
 \* Elevations derived from National Geodetic Vertical Datum.

Date November 21, 2014