

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	StrataKan Exploration, LLC
Well Name	ANDREWS 22-1
Doc ID	1313178

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	3ft	Shot	3832-3835
	CIBP		3827
6	3ft	Acid 150 GAL 7.5% MCA	3804-3807

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 1350

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

Date	5-21-16	Sec.	22	Twp.	22	Range	13	County	Stafford	State	Ks	On Location		Finish	9:15 PM
------	---------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Location 281 + K-19, 25, 1/2 E, 54th

Lease	Andrews	Well No.	22-1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	ww 4	Type Job	Longstring	Charge To	Stratakan
Hole Size	5 7/8"	T.D.	3910'	Street	
Csg.	5 1/2" New 15.50#	Depth	3902'	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	42.10'	Shoe Joint	42.10'	Cement Amount Ordered	170 Com 10% Salt
Meas Line		Displace	91 3/4 BLS	5% Gilsomite - 10 gal KCL	

EQUIPMENT

Pumptrk	5	No.	Cementor	Brett	Common	170
			Helper		Poz. Mix	
Bulktrk	14	No.	Driver	Doug	Gel.	
			Driver	Rick	Calcium	KCL 1 gal
Bulktrk	pu	No.	Driver		Hulls	

JOB SERVICES & REMARKS

Remarks:	pipe on bottom, break Circulation	Salt	14
Rat Hole	pump 500 gal mud Clear 48	Flowseal	
Mouse Hole	plug Rathole w/ 30 5x	Kol-Seal	700#
Centralizers	Hook to 5 1/2" Casing +	Mud CLR 48	500 gal
Baskets	mix 140 5x Cement. Shut down	CFL-117 or CD110 CAF 38	
D/V or Port Collar	Released plug wash pump	Sand	
+ lines	Hook to Casing + Displaced	Handling	191
w/ 9 3/4 BLS of KCL Water.	Released + held.	Mileage	

FLOAT EQUIPMENT

Land plug to	700 #	Guide Shoe	
Lift pressure	1500 #	Centralizer	6
		Baskets	
		AFU Inserts	
		Float Shoe	1
		Latch Down	1

Pumptrk Charge prod string
Mileage 17

Tax	
Discount	
Total Charge	

X Signature *[Signature]*

GLOBAL CEMENTING, L.L.C.

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS
5-15-2016

DATE <u>5-14-2016</u>	SEC. <u>22</u>	TWP. <u>22</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>ANDREWS</u>	WELL #. <u>22-1</u>	LOCATION <u>GREAT BEND 16 SOUTH</u>				COUNTY <u>STAFFORD</u>	STATE <u>KANSAS</u>
OLD OR <u>NEW</u> (CIRCLE ONE)		<u>1/2 E 1/4 S INTO</u>					

CONTRACTOR <u>W-W DAIG, Rig # 4</u>	OWNER
TYPE OF JOB <u>LONG SURFACE</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	AMOUNT ORDERED <u>325 SX 40</u>
CASING SIZE <u>8 5/8</u>	<u>370 CC</u>
TUBING SIZE	<u>2% GEL</u>
DRILL PIPE	
TOOL <u>BAFFLE Plate @</u>	
PRES. MAX <u>2 6</u>	
MEAS. LINE	
CEMENT LEFT IN CSG. <u>42'</u>	
PERFS	
DISPLACEMENT <u>41/88L</u>	
EQUIPMENT	

PUMP TRUCK # <u>P-2</u>	CEMENTER <u>GLENN G.</u>
BULK TRUCK # <u>B-7</u>	HELPER <u>BRAD</u>
BULK TRUCK #	DRIVER <u>JASON M.</u>
BULK TRUCK #	DRIVER

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

REMARKS:

Set 8 5/8 New CSG @ 681
Received CIRCULATION
Cement w/ 325 SX 60/40 341
Release Plug & Dis Place 41 BBL, H₂O
HAD 350# DIFT PRESSURE
Cement DIRT CIRCULATE
TO SURFACE. THANKS
RAN 1" TO 50' + TAG. Cement - Circ connect w/ 45SX COMM

CHARGE TO: STRATAKAN EXPLORATION INC
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

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

PLUG & FLOAT EQUIPMENT

<u>1-8 5/8 BAFFLE Plate @</u>	
<u>1-wooden Plug</u>	@
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 Walter Brown
 SIGNATURE Walter Brown

SALES TAX (If Any) _____
 TOTAL CHARGES _____



DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.18 @ 06:33:25

End Date: 2016.05.18 @ 10:59:10

Job Ticket #: 57949 DST #: 1

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

Printed: 2016.05.23 @ 15:07:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 57949

DST#: 1

Test Start: 2016.05.18 @ 06:33:25

GENERAL INFORMATION:

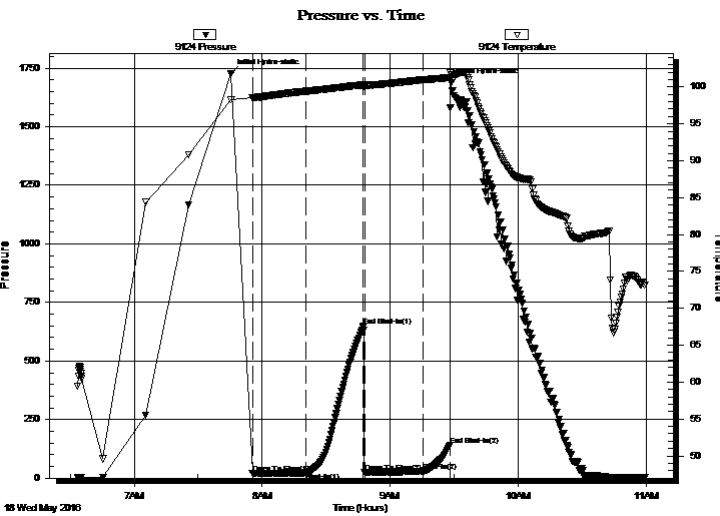
Formation: **LKC "B - F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:55:25
 Time Test Ended: 10:59:10
 Interval: **3430.00 ft (KB) To 3485.00 ft (KB) (TVD)**
 Total Depth: 3485.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9124

Outside

Press@RunDepth: 28.29 psig @ 3431.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.18 End Date: 2016.05.18 Last Calib.: 2016.05.18
 Start Time: 06:33:30 End Time: 10:59:09 Time On Btm: 2016.05.18 @ 07:45:25
 Time Off Btm: 2016.05.18 @ 09:28:40

TEST COMMENT: IF:Weak blow . 1/4 - 1/2".
 IS:No blow .
 FF:Very weak blow . (surface)
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.16	98.25	Initial Hydro-static
10	19.66	98.50	Open To Flow (1)
35	23.06	99.41	Shut-In(1)
62	647.20	100.29	End Shut-In(1)
63	24.53	100.11	Open To Flow (2)
90	28.29	100.97	Shut-In(2)
103	140.64	101.27	End Shut-In(2)
104	1689.53	101.59	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57949

DST#: 1

ATTN: Jason Alm

Test Start: 2016.05.18 @ 06:33:25

Tool Information

Drill Pipe:	Length: 3302.00 ft	Diameter: 3.80 inches	Volume: 46.32 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3430.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			3411.00	
Shut In Tool	5.00			3416.00	
Hydraulic tool	5.00			3421.00	
Packer	4.00			3425.00	20.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Recorder	0.00	9124	Outside	3431.00	
Recorder	0.00	6798	Inside	3431.00	
Perforations	6.00			3437.00	
Blank Spacing	32.00			3469.00	
Perforations	11.00			3480.00	
Bullnose	5.00			3485.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57949

DST#: 1

ATTN: Jason Alm

Test Start: 2016.05.18 @ 06:33:25

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:

5000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

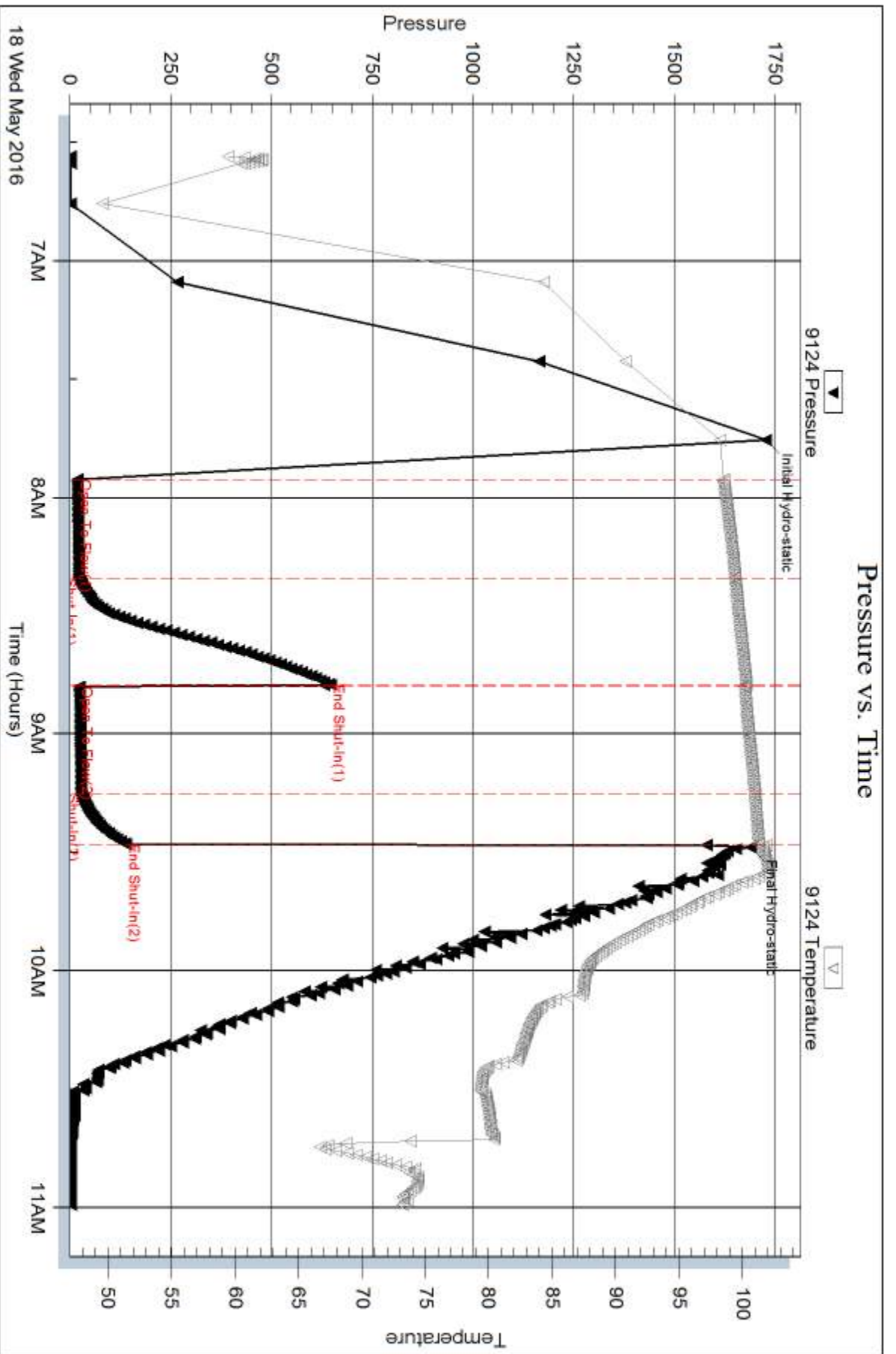
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



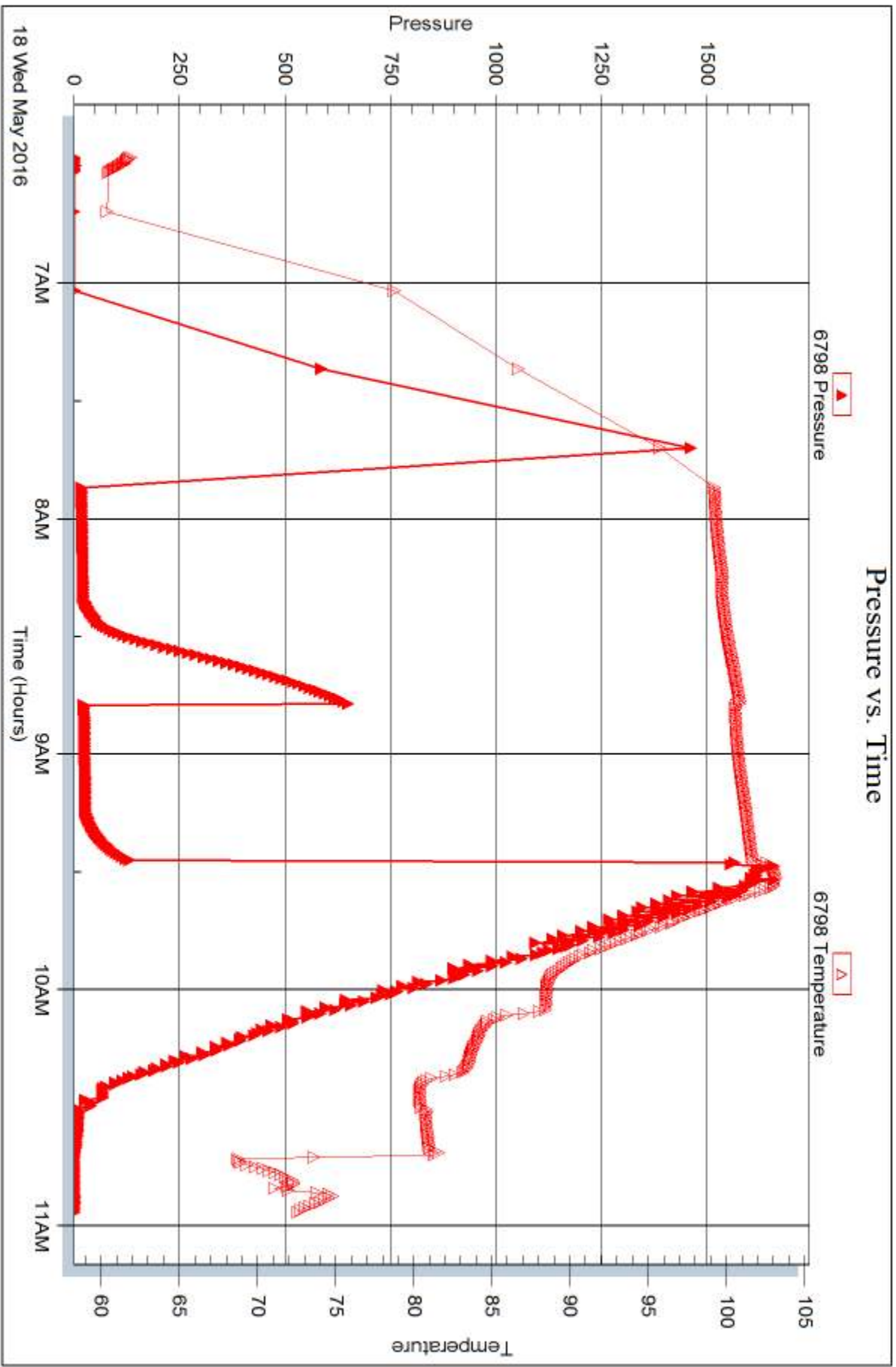
Serial #: 6798

Inside

Stratakan Expl. Inc.

Andrew's #22-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.18 @ 20:24:20

End Date: 2016.05.19 @ 01:36:05

Job Ticket #: 57950 DST #: 2

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

Printed: 2016.05.23 @ 15:07:04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 57950

DST#: 2

Test Start: 2016.05.18 @ 20:24:20

GENERAL INFORMATION:

Formation: **LKC "I - K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:52:05
 Time Test Ended: 01:36:05
 Interval: **3541.00 ft (KB) To 3605.00 ft (KB) (TVD)**
 Total Depth: 3605.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

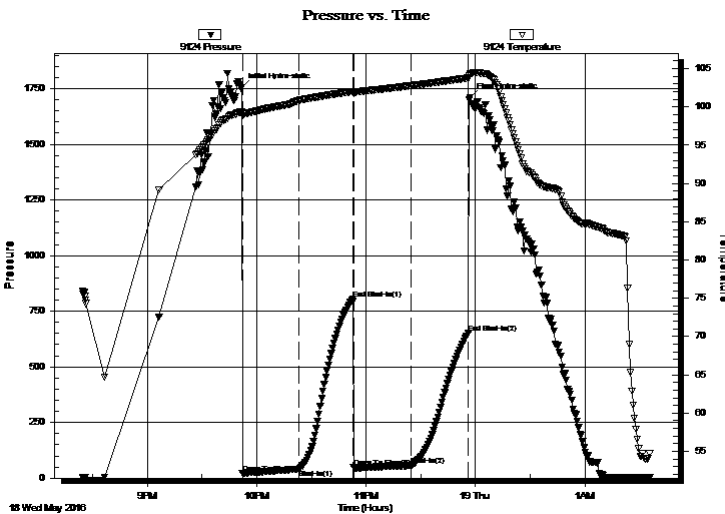
Serial #: 9124

Outside

Press@RunDepth: 56.77 psig @ 3542.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.18 End Date: 2016.05.19 Last Calib.: 2016.05.19
 Start Time: 20:24:25 End Time: 01:36:04 Time On Btm: 2016.05.18 @ 21:51:35
 Time Off Btm: 2016.05.18 @ 23:57:05

TEST COMMENT: IF:Weak blow . 1/2 - 1".
 IS:No blow .
 FF:Weak blow . 1/2 - 3/4".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.78	99.36	Initial Hydro-static
1	20.39	98.90	Open To Flow (1)
32	41.33	100.84	Shut-In(1)
61	805.09	102.01	End Shut-In(1)
62	47.85	101.79	Open To Flow (2)
93	56.77	102.78	Shut-In(2)
125	653.00	103.78	End Shut-In(2)
126	1710.58	104.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Heavy mud	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57950

DST#: 2

ATTN: Jason Alm

Test Start: 2016.05.18 @ 20:24:20

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 48.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3541.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3522.00	
Shut In Tool	5.00			3527.00	
Hydraulic tool	5.00			3532.00	
Packer	4.00			3536.00	20.00 Bottom Of Top Packer
Packer	5.00			3541.00	
Stubb	1.00			3542.00	
Recorder	0.00	9124	Outside	3542.00	
Recorder	0.00	6798	Inside	3542.00	
Perforations	6.00			3548.00	
Blank Spacing	32.00			3580.00	
Perforations	20.00			3600.00	
Bullnose	5.00			3605.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57950

DST#: 2

ATTN: Jason Alm

Test Start: 2016.05.18 @ 20:24:20

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:

5000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Heavy mud	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

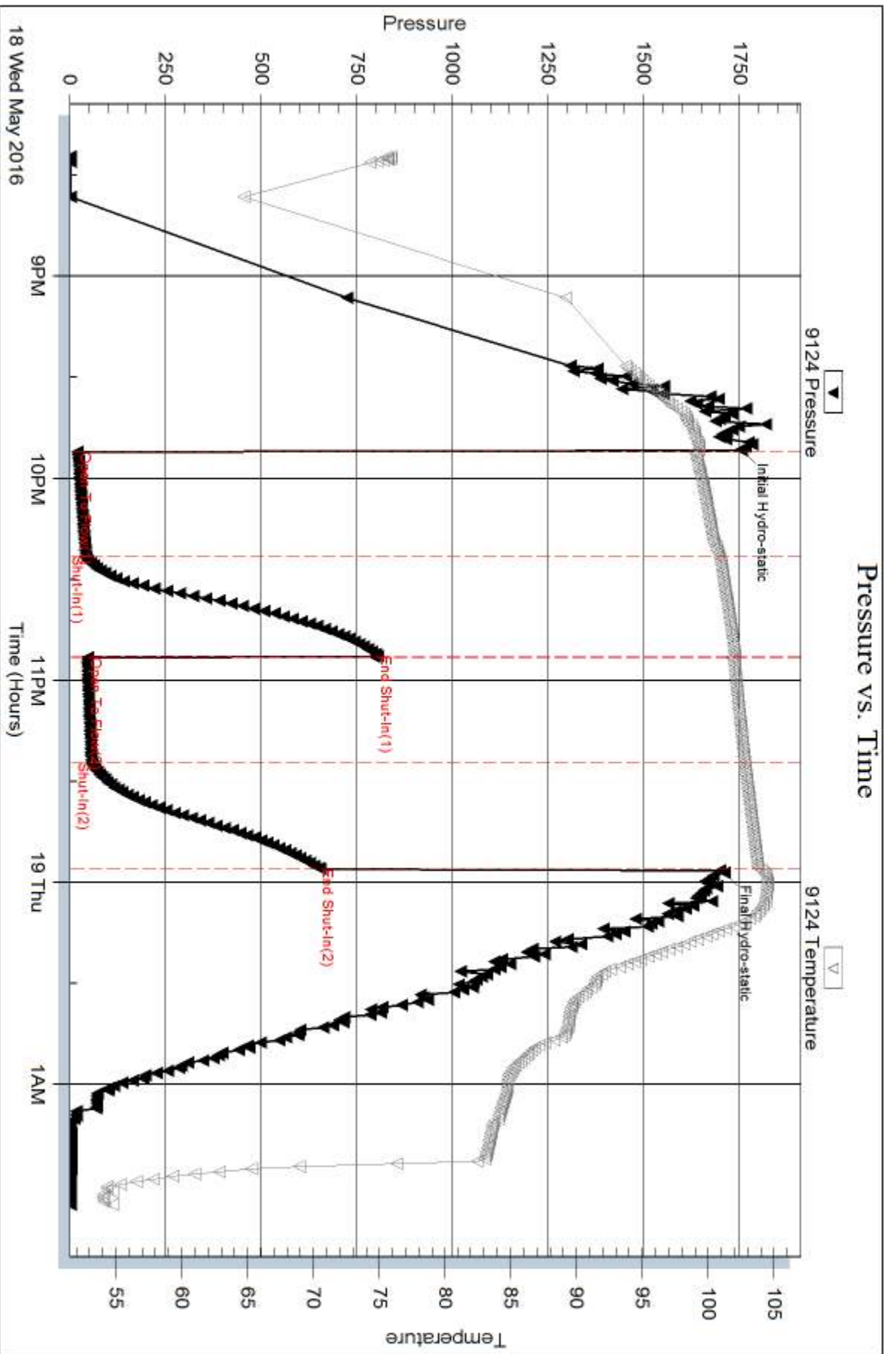
Num Gas Bombs: 0

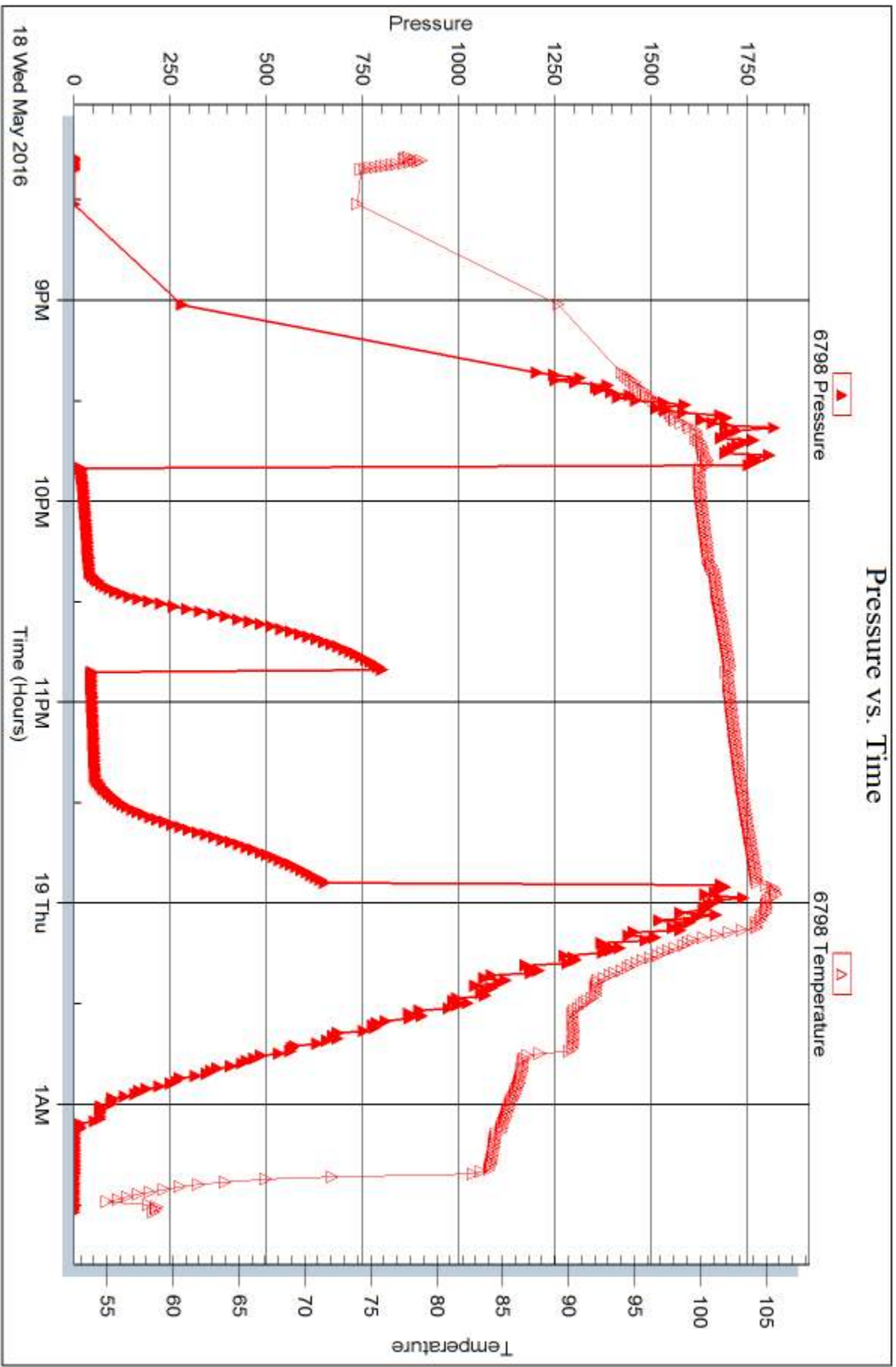
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.19 @ 14:21:46

End Date: 2016.05.19 @ 20:16:31

Job Ticket #: 63076 DST #: 3

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

Printed: 2016.05.23 @ 15:06:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
204 W. Mill St.
Plainville KS. 67663
ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 63076

DST#: 3

Test Start: 2016.05.19 @ 14:21:46

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:32:31
 Time Test Ended: 20:16:31
 Interval: **3627.00 ft (KB) To 3740.00 ft (KB) (TVD)**
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

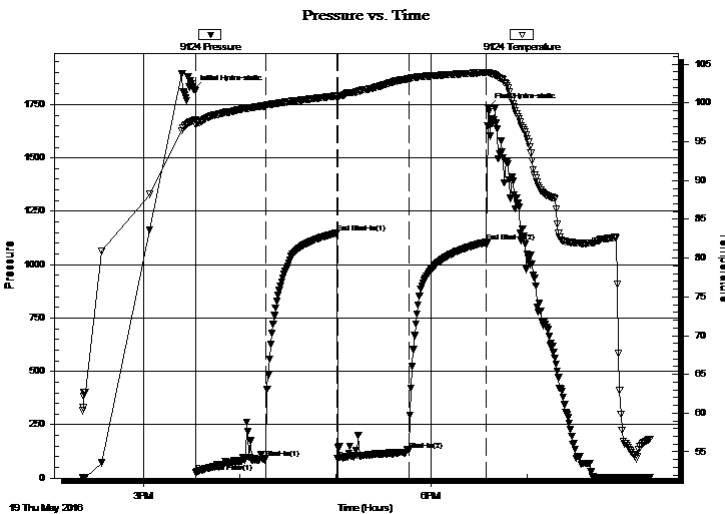
Serial #: 9124

Outside

Press@RunDepth: 131.09 psig @ 3628.00 ft (KB)
 Start Date: 2016.05.19 End Date: 2016.05.19
 Start Time: 14:21:51 End Time: 20:16:30
 Capacity: 8000.00 psig
 Last Calib.: 2016.05.19
 Time On Btm: 2016.05.19 @ 15:31:31
 Time Off Btm: 2016.05.19 @ 18:35:46

TEST COMMENT: IF:Fair blow . Increase to 6".
 IS:No blow .
 FF:Weak to fair blow . 1 - 4".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.09	97.74	Initial Hydro-static
1	26.57	97.15	Open To Flow (1)
45	94.18	99.66	Shut-In(1)
90	1148.20	100.91	End Shut-In(1)
90	90.04	100.62	Open To Flow (2)
135	131.09	103.13	Shut-In(2)
183	1105.40	103.96	End Shut-In(2)
185	1734.00	103.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	WM 26%w 74%m	0.49
100.00	WM 15%w 85%m	1.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63076

DST#: 3

ATTN: Jason Alm

Test Start: 2016.05.19 @ 14:21:46

Tool Information

Drill Pipe:	Length: 3493.00 ft	Diameter: 3.80 inches	Volume: 49.00 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 49.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3627.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	133.00 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			3608.00	
Shut In Tool	5.00			3613.00	
Hydraulic tool	5.00			3618.00	
Packer	4.00			3622.00	20.00 Bottom Of Top Packer
Packer	5.00			3627.00	
Stubb	1.00			3628.00	
Recorder	0.00	9124	Outside	3628.00	
Recorder	0.00	6798	Inside	3628.00	
Perforations	6.00			3634.00	
Blank Spacing	95.00			3729.00	
Perforations	6.00			3735.00	
Bullnose	5.00			3740.00	113.00 Bottom Packers & Anchor

Total Tool Length: 133.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63076

DST#: 3

ATTN: Jason Alm

Test Start: 2016.05.19 @ 14:21:46

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:

41000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
100.00	WM 26%w 74%m	0.492
100.00	WM 15%w 85%m	1.221

Total Length: 200.00 ft Total Volume: 1.713 bbf

Num Fluid Samples: 0

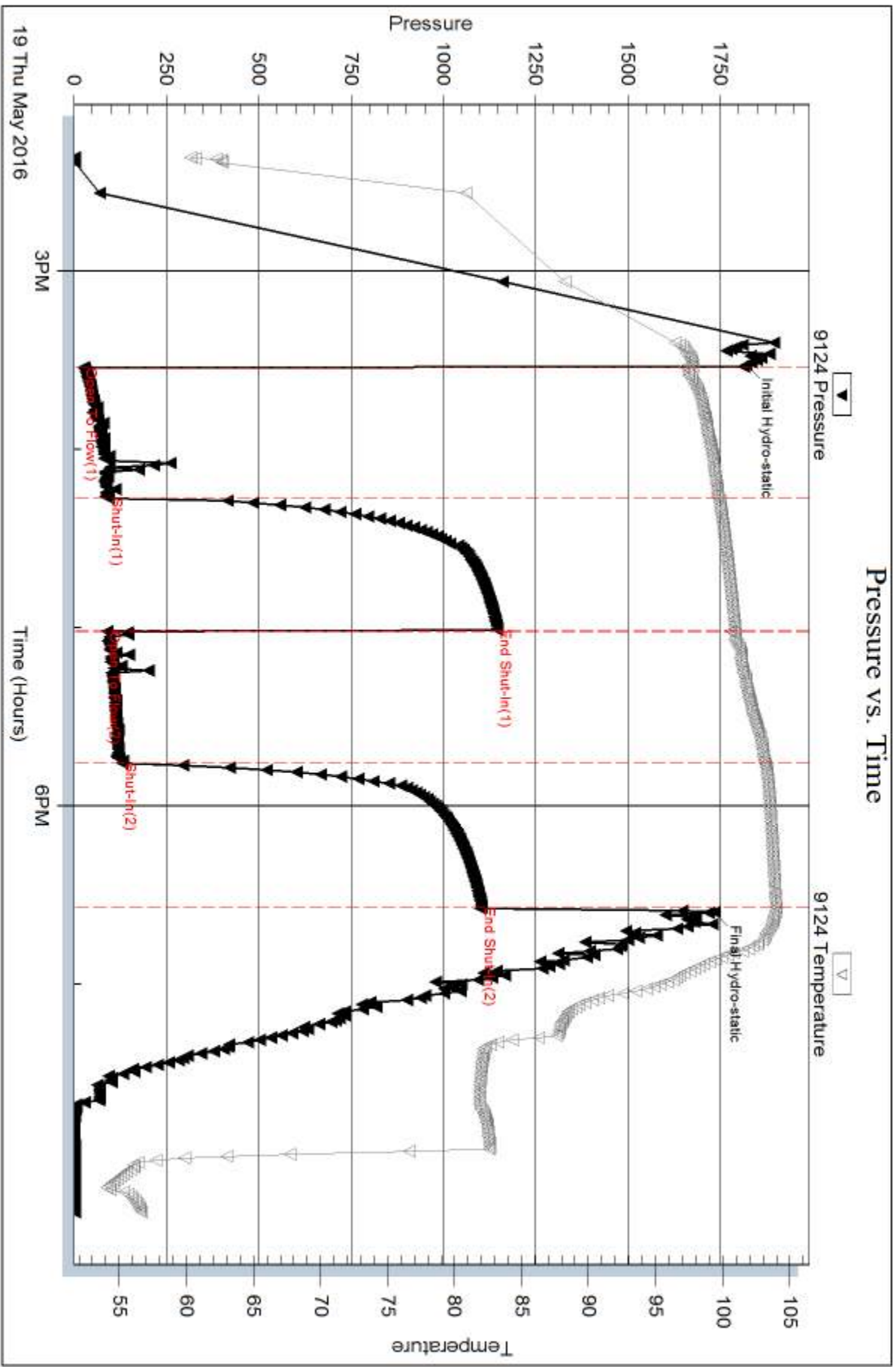
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .12 @ 67deg



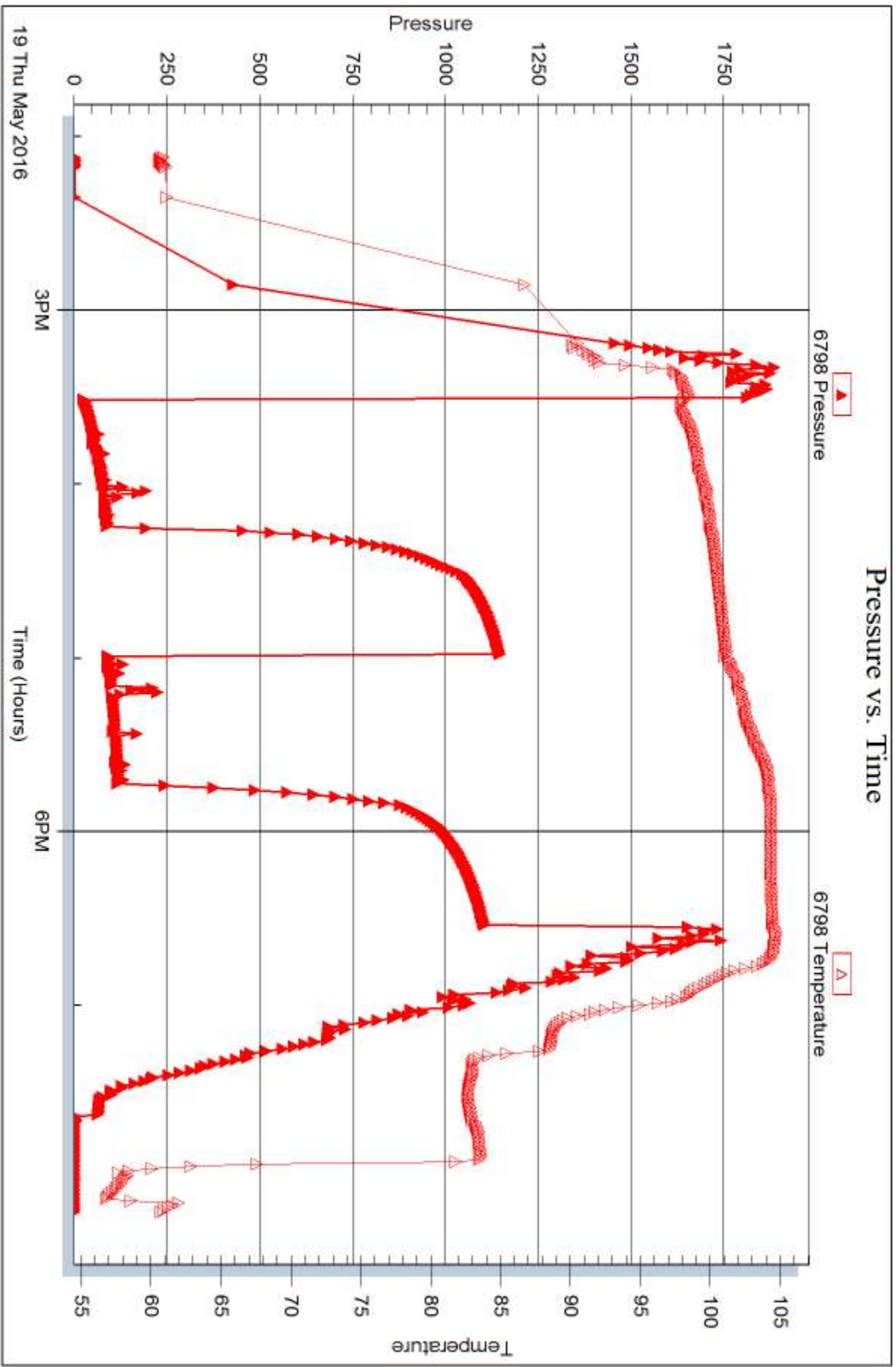
Serial #: 6798

Inside

Stratakan Expl. Inc.

Andrew's #22-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63076

Printed: 2016.05.23 @ 15:06:40



DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.20 @ 03:58:39

End Date: 2016.05.20 @ 10:24:54

Job Ticket #: 63077 DST #: 4

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

Printed: 2016.05.23 @ 15:06:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 63077

DST#: 4

Test Start: 2016.05.20 @ 03:58:39

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:34:09
 Time Test Ended: 10:24:54
 Interval: **3728.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

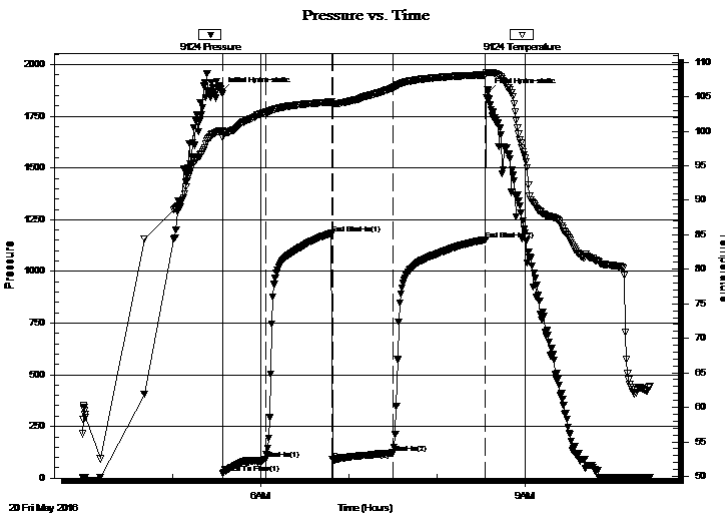
Serial #: 9124

Outside

Press@RunDepth: 121.97 psig @ 3729.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.20 End Date: 2016.05.20 Last Calib.: 2016.05.20
 Start Time: 03:58:44 End Time: 10:24:53 Time On Btm: 2016.05.20 @ 05:33:09
 Time Off Btm: 2016.05.20 @ 08:34:54

TEST COMMENT: IF:Fair to strong blow . B.O.B. in 28 mins.
 IS:Weak blow . 1/2".
 FF:Strong blow . B.O.B. in 16 mins.
 FS:Weak blow . 1 - 3".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.40	100.06	Initial Hydro-static
1	22.84	99.08	Open To Flow (1)
30	89.84	102.71	Shut-In(1)
75	1183.34	104.24	End Shut-In(1)
76	88.06	104.03	Open To Flow (2)
118	121.97	106.35	Shut-In(2)
180	1153.38	108.17	End Shut-In(2)
182	1863.68	108.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 51%g 24%o 25%m	0.59
145.00	GMCO 20%g 25%m 55%o	2.03
0.00	450 ft.of 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

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63077

DST#: 4

ATTN: Jason Alm

Test Start: 2016.05.20 @ 03:58:39

Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.80 inches	Volume: 50.78 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: 23000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 51.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3728.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3709.00	
Shut In Tool	5.00			3714.00	
Hydraulic tool	5.00			3719.00	
Packer	4.00			3723.00	20.00 Bottom Of Top Packer
Packer	5.00			3728.00	
Stubb	1.00			3729.00	
Recorder	0.00	9124	Outside	3729.00	
Recorder	0.00	6798	Inside	3729.00	
Perforations	6.00			3735.00	
Blank Spacing	32.00			3767.00	
Perforations	18.00			3785.00	
Bullnose	5.00			3790.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63077

DST#: 4

ATTN: Jason Alm

Test Start: 2016.05.20 @ 03:58:39

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:

9000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GOCM 51%g 24%o 25%m	0.590
145.00	GMCO 20%g 25%m 55%o	2.034
0.00	450 ft.of GIP	0.000

Total Length: 265.00 ft

Total Volume: 2.624 bbl

Num Fluid Samples: 0

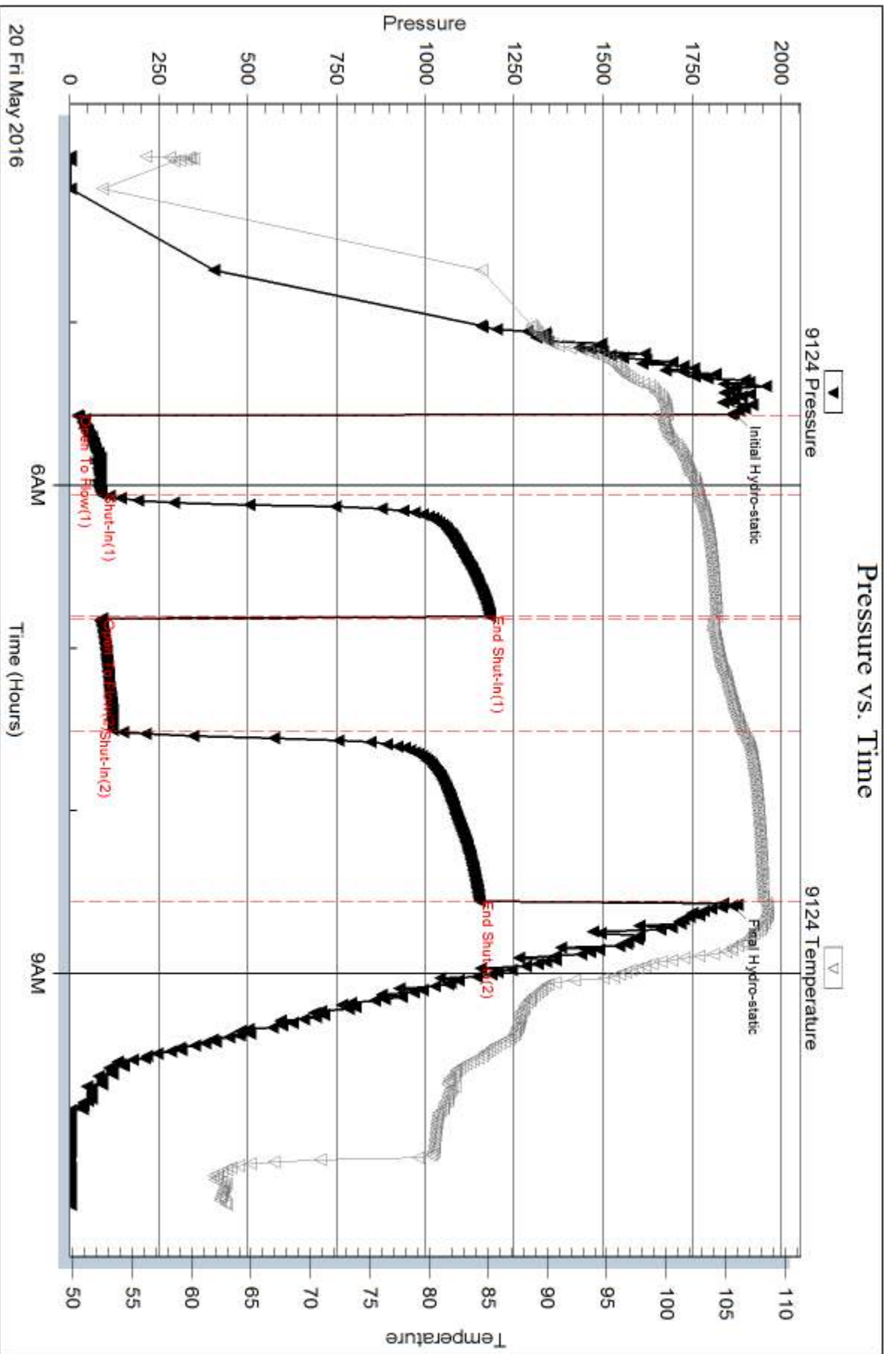
Num Gas Bombs: 0

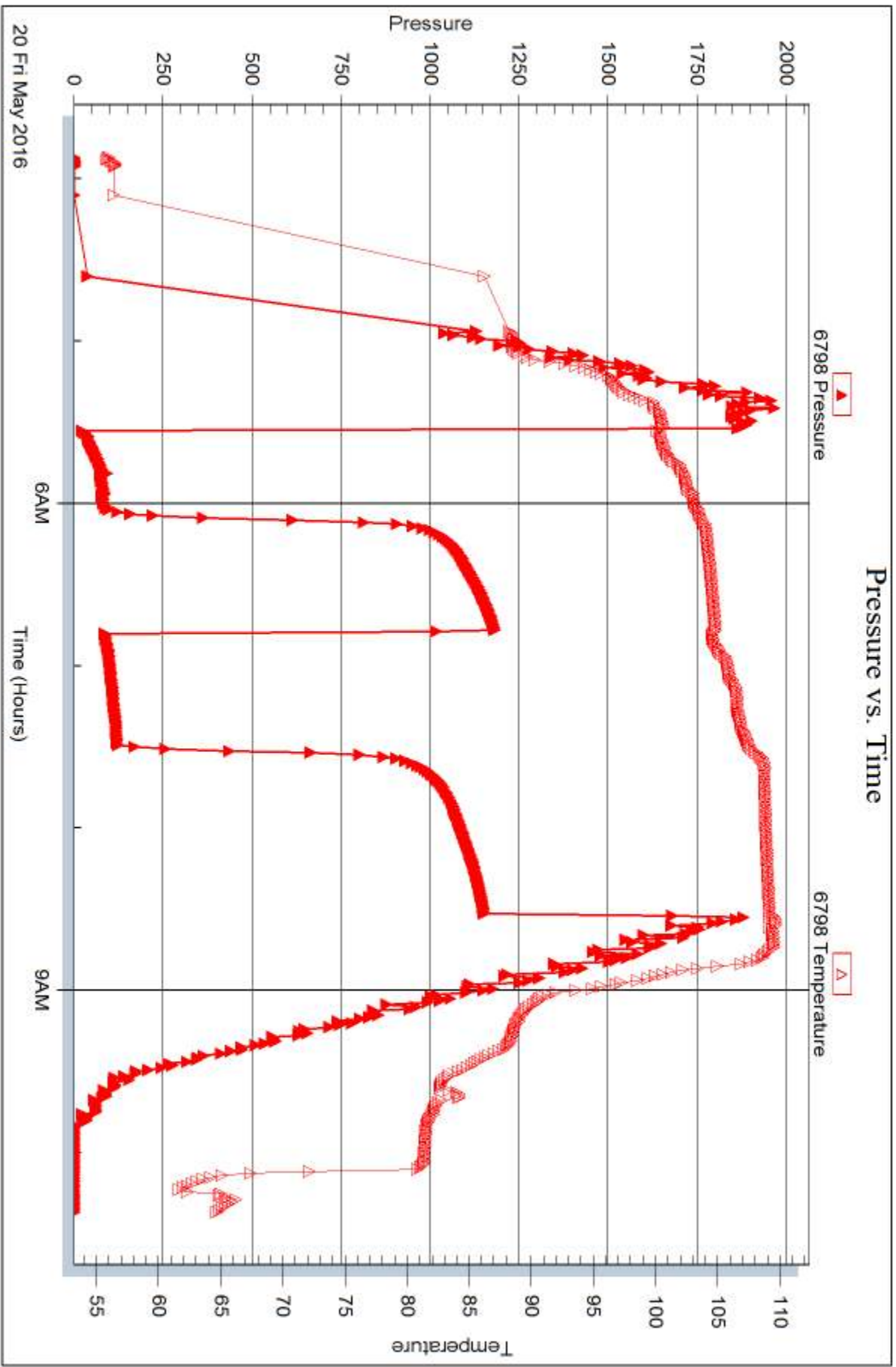
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.20 @ 16:35:02

End Date: 2016.05.20 @ 23:58:02

Job Ticket #: 63078 DST #: 5

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

Printed: 2016.05.23 @ 15:05:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 63078

DST#: 5

Test Start: 2016.05.20 @ 16:35:02

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:03:47
 Time Test Ended: 23:58:02
 Interval: **3809.00 ft (KB) To 3817.00 ft (KB) (TVD)**
 Total Depth: 3817.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9124

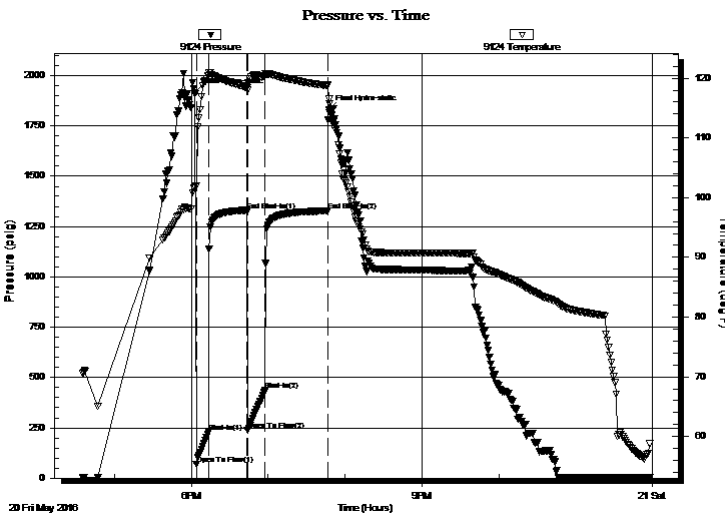
Outside

Press@RunDepth: 434.70 psig @ 3810.00 ft (KB)
 Start Date: 2016.05.20 End Date: 2016.05.20
 Start Time: 16:35:07 End Time: 23:58:01

Capacity: 8000.00 psig
 Last Calib.: 2016.05.21
 Time On Btm: 2016.05.20 @ 18:02:32
 Time Off Btm: 2016.05.20 @ 19:47:32

TEST COMMENT: IF: Strong blow . B.O.B. in 3 mins.
 IS: No blow .
 FF: Strong blow . B.O.B. in 3 - 4 mins.
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.49	101.83	Initial Hydro-static
2	67.79	101.98	Open To Flow (1)
11	229.43	120.45	Shut-In(1)
41	1325.68	118.43	End Shut-In(1)
42	236.17	118.00	Open To Flow (2)
55	434.70	120.38	Shut-In(2)
104	1327.42	118.78	End Shut-In(2)
105	1829.83	116.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	SW	4.03
125.00	OCW 20%o 80%w	1.75
380.00	G&WCO 20%g 25%w 55%o	5.33
100.00	Clean oil	1.40
0.00	90 ft.of 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

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63078

DST#: 5

ATTN: Jason Alm

Test Start: 2016.05.20 @ 16:35:02

Tool Information

Drill Pipe:	Length: 3684.00 ft	Diameter: 3.80 inches	Volume: 51.68 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 52.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3809.00 ft			Final 60500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 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			3790.00	
Shut In Tool	5.00			3795.00	
Hydraulic tool	5.00			3800.00	
Packer	4.00			3804.00	20.00 Bottom Of Top Packer
Packer	5.00			3809.00	
Stubb	1.00			3810.00	
Recorder	0.00	9124	Outside	3810.00	
Recorder	0.00	6798	Inside	3810.00	
Perforations	2.00			3812.00	
Bullnose	5.00			3817.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63078

DST#: 5

ATTN: Jason Alm

Test Start: 2016.05.20 @ 16:35:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
365.00	SW	4.027
125.00	OCW 20%o 80%w	1.753
380.00	G&WCO 20%g 25%w 55%o	5.330
100.00	Clean oil	1.403
0.00	90 ft.of GIP	0.000

Total Length: 970.00 ft Total Volume: 12.513 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .21ohms@70deg

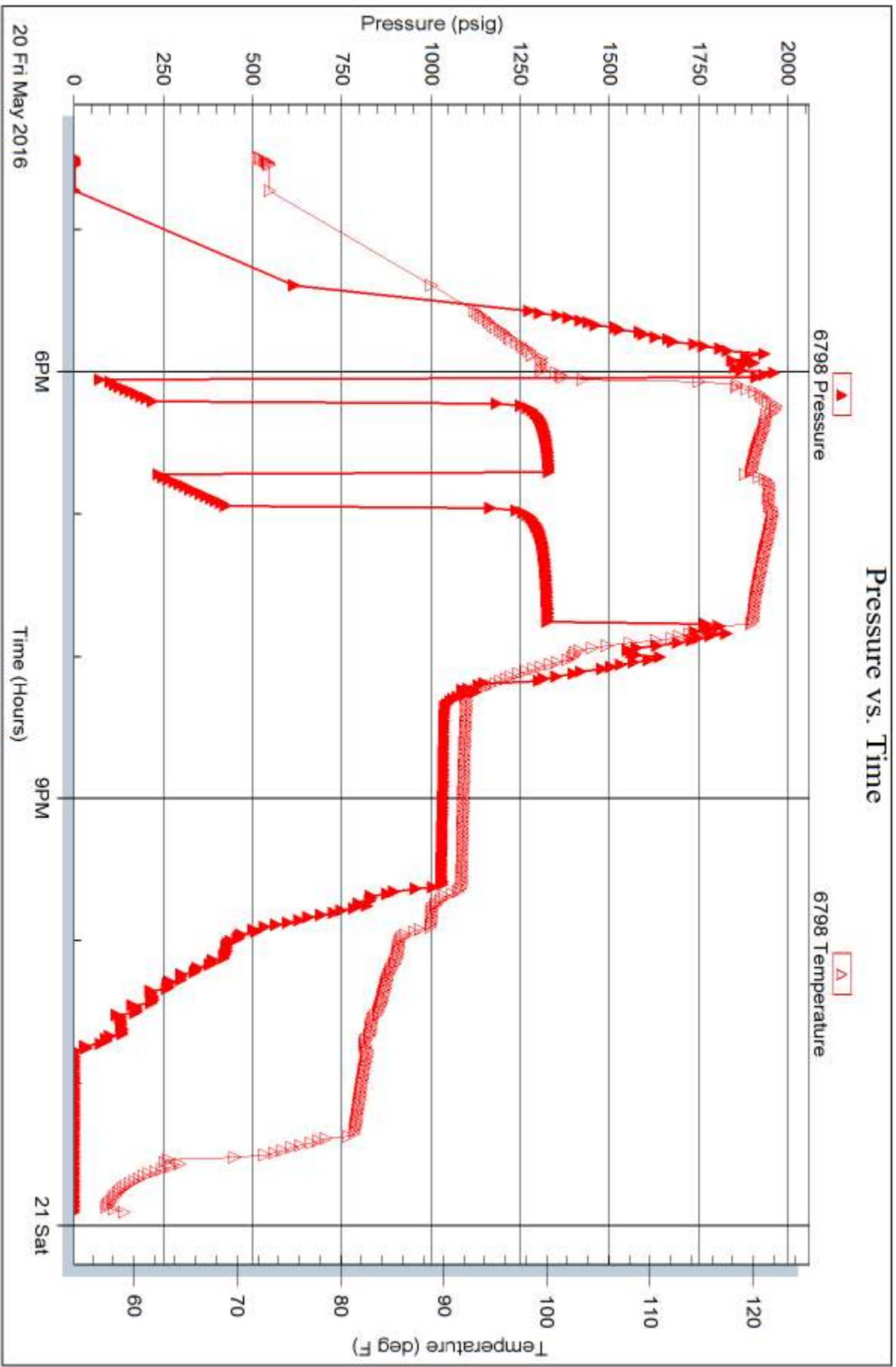
Serial #: 6798

Inside

Stratakan Expl. Inc.

Andrew's #22-1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63078

Printed: 2016.05.23 @ 15:05:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57949

4/10

Well Name & No. ANDREWS #22-1 Test No. 1 Date 5-18-2016
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. RAINVILLE KS. 67663
 Co. Rep / Geo. JASON ARM Rig WW DRILG. #4
 Location: Sec. 22 Twp. 22^S Rge. 13^W Co. STAFFORD State KS.

Interval Tested 3430 - 3485 Zone Tested LKC "B-F"
 Anchor Length 55' Drill Pipe Run 3302' Mud Wt: 9.1
 Top Packer Depth 3425' Drill Collars Run 120' Vis 50
 Bottom Packer Depth 3430' Wt. Pipe Run 0 WL 8.0cc
 Total Depth 3485' Chlorides 5,000 ppm System LCM 2ST
 Blow Description IF: weak blow. 1/4-1/2". ISI. No. below.

FF: Very weak blow. (surface) FSI. No. below.

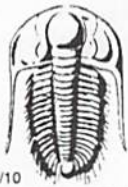
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Dry Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 101° Gravity N/A API RW N.C. @ ~ ° F Chlorides 5,000 ppm
 (A) Initial Hydrostatic 1728 Test 1050 T-On Location 0425
 (B) First Initial Flow 20 Jars _____ T-Started 0633
 (C) First Final Flow 23 Safety Joint _____ T-Open 0755
 (D) Initial Shut-In 647 Circ Sub _____ T-Pulled 0950
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 1059
 (F) Second Final Flow 28 Mileage (66) 49.50 Comments _____
 (G) Final Shut-In 141 Sampler _____
 (H) Final Hydrostatic 1690 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1099.50 Total 1099.50 MP/DST Disc't _____

Approved By _____

Our Representative Jason Armstrong

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. **57950**

4/10

Well Name & No. ANDREWS # 22-1 Test No. 2 Date 5-18-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. PLAINVILLE KS. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRUG #4
 Location: Sec. 22 Twp. 22 Rge. 13^W Co. STAFFORD State Ks.

Interval Tested 3541-3605' Zone Tested LKC "I-K"
 Anchor Length 64' Drill Pipe Run 3430' Mud Wt. 9.1
 Top Packer Depth 3536' Drill Collars Run 120' Vis 50
 Bottom Packer Depth 3541' Wt. Pipe Run 0 WL 8.0 cc
 Total Depth 3605' Chlorides 5,000 ppm System LCM 2th
 Blow Description IF: Weak blow 1/2-1". ISI: No blow.

FF: Weak blow 1/2-3/4". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Heavy mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 104° Gravity N/A API RW N.C. @ ~ °F Chlorides 5,000 ppm

(A) Initial Hydrostatic 1756 Test 1050 T-On Location 2005
 (B) First Initial Flow 20 Jars _____ T-Started 2024
 (C) First Final Flow 41 Safety Joint _____ T-Open 2152
 (D) Initial Shut-In 805 Circ Sub _____ T-Pulled 2358
 (E) Second Initial Flow 48 Hourly Standby _____ T-Out 0136
 (F) Second Final Flow 57 Mileage 66 49.50 Comments _____
 (G) Final Shut-In 653 Sampler _____
 (H) Final Hydrostatic 1711 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1099.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1099.50

Approved By _____ Our Representative Cony Davatony

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. 63076

Well Name & No. ANDREWS #221 Test No. 3 Date 5-19-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 201 W. Mill St. PLAINVILLE Ks. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRILG. #4
 Location: Sec. 22 Twp. 22^S Rge. 13^W Co. STAFFORD State KS.

Interval Tested 3627 - 3740' Zone Tested VIOLA
 Anchor Length 113' Drill Pipe Run 3493' Mud Wt. 9.0
 Top Packer Depth 3622' Drill Collars Run 120' Vis 54
 Bottom Packer Depth 3627' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 3740' Chlorides 9,000 ppm System LCM 1st
 Blow Description IF: Fair blow. Increase to 6". ISI: No blow

FF: Wash to fair blow. 1-4". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>WM</u>		<u>15</u>	<u>85</u>	
<u>100</u>	<u>WM</u>		<u>26</u>	<u>74</u>	

Rec Total 200 BHT 104° Gravity N/A API RW .12@ 67° F Chlorides 41,000 ppm
 (A) Initial Hydrostatic 1820 Test 1050 T-On Location 1345
 (B) First Initial Flow 27 Jars _____ T-Started 1421
 (C) First Final Flow 94 Safety Joint _____ T-Open 1532
 (D) Initial Shut-In 1148 Circ Sub _____ T-Pulled 1835
 (E) Second Initial Flow 90 Hourly Standby _____ T-Out 2016
 (F) Second Final Flow 131 Mileage 60 49.50 Comments _____
 (G) Final Shut-In 1105 Sampler _____
 (H) Final Hydrostatic 1734 Straddle _____
 Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Shale Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1099.50 MP/DST Disc't _____

Approved By _____

Our Representative Cory Piotrowski

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. 63077

Well Name & No. ANDREWS # 22-1 Test No. 4 Date 5-20-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. PAINEVILLE KS. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRIG. #4
 Location: Sec. 22 Twp. 22 S Rge. 13 W Co. STAFFORD State KS.

Interval Tested 3728 - 3790' Zone Tested SIMPSON SD.
 Anchor Length 62' Drill Pipe Run 3620' Mud Wt. 9.0
 Top Packer Depth 3723' Drill Collars Run 120' Vis 53
 Bottom Packer Depth 3728' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 3790' Chlorides 9,000 ppm System LCM 1-2#

Blow Description IF: Fair to strong blow, B.O.B. in 28 mins.
ISI: Weak blow, 1/2"
FF: Strong blow, B.O.B. in 16 mins. FSI: Weak blow, 1-3"

Rec	Feet of	%gas	%oil	%water	%mud
450	Gas in pipe				
145	GMC0	20	55	25	
120	GOCM	51	24	25	

Rec Total 205 Fluid BHT 108° Gravity N/A API RW N.C. @ ← °F Chlorides 9,000 ppm

(A) Initial Hydrostatic <u>1867</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0349</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars	T-Started <u>0358</u>
(C) First Final Flow <u>90</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0534</u>
(D) Initial Shut-In <u>1183</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0835</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1024</u>
(F) Second Final Flow <u>122</u>	<input checked="" type="checkbox"/> Mileage <u>49.50</u>	Comments
(G) Final Shut-In <u>1153</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1864</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1099.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1099.50</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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63078

Well Name & No. ANDREWS # 22-1 Test No. 5 Date 5-20-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. PLAINVILLE KS. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRILL #4
 Location: Sec. 22 Twp. 22S Rge. 13W Co. STAFFORD State Ks.

Interval Tested 3809-3817' Zone Tested ARBUCKLE
 Anchor Length 8' Drill Pipe Run 3684' Mud Wt. 9.1
 Top Packer Depth 3804' Drill Collars Run 120' Vis 52
 Bottom Packer Depth 3809' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 3817' Chlorides 9,000 ppm System LCM 2#
 Blow Description IF: Strong blow. B.O.B. in 3 mins. IST: No blow.

FF: Strong blow. B.O.B. in 3-4 mins. FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
90	GIP				
100	Clean oil				
380	G&WCO	20	55	25	
125	OCW	20	80		
365	SW				

Rec Total 970 Fluid BHT 1190 Gravity 21.6 API RW 21 @ 70 °F Chlorides 33000 ppm

(A) Initial Hydrostatic 1916 Test 1050 T-On Location 1609
 (B) First Initial Flow 68 Jars 1635
 (C) First Final Flow 229 Safety Joint 1803
 (D) Initial Shut-In 1326 Circ Sub 1945
 (E) Second Initial Flow 234 Hourly Standby 2358
 (F) Second Final Flow 435 Mileage 66.5 49.50 Comments _____
 (G) Final Shut-In 1327 Sampler _____
 (H) Final Hydrostatic 1830 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 10
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 45

Sub Total 1099.5.0 MP/DST Disc't _____

Approved By _____ Our Representative Cory P. [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.

Geological Report

Andrews #22-1
950' FNL & 2050' FWL
Sec. 22 T22s R13w
Stafford County, Kansas



StrataKan Exploration, Inc.

General Data

Well Data: StrataKan Exploration, Inc.
Andrews #22-1
950' FNL & 2050' FWL
Sec. 22 T22s R13w
Stafford County, Kansas
API # 15-185-23960-0000

Drilling Contractor: WW Drilling Rig #4

Geologist: Jason T Alm

Spud Date: May 13, 2016

Completion Date: May 21, 2016

Elevation: 1890' Ground Level
1895' Kelly Bushing

Directions: St. John KS, North on Hwy 281 9 mi. East ½ mi.
South into location.

Casing: 681' 8 5/8" surface casing
3907' 5 1/2" production casing

Samples: 10' wet and dry, 2900' to RTD

Drilling Time: 2850' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"
CNL/CDL, DIL, MEL

Drillstem Tests: Five, Trilobite Testing "Gary Pevoteaux

Problems: None

Remarks: After DST #4 background gas was too high to see
any formation gas from the Arbuckle.

Formation Tops

Formation	StrataKan Exploration Andrews #22-1 Sec. 22 T22s R13w 950' FNL & 2050' FWL
Anhydrite	751', +1144
Base	774', +1121
Topeka	2950', -1055
Heebner	3254', -1359
Toronto	3272', -1377
Douglas	3286', -1391
Brown Lime	3382', -1487
Lansing	3403', -1508
BKC	3628', -1733
Viola	3704', -1793
Simpson	3748', -1853
Arbuckle	3804', -1909
LTD	3908', -2013
RTD	3910', -2015

Sample Zone Descriptions

- LKC “D-zone” (3440’, -1545): Covered in DST #1**
 Ls – Fine to sub-crystalline with poor scattered inter-crystalline porosity, light to fair spotted oil stain in porosity, slight show of free oil when broken, very light odor, dull yellow fluorescents, 18 units hotwire.
- LKC “F-zone” (3469’, -1574): Covered in DST #1**
 Ls – Fine crystalline, oolitic with poor to fair oomoldic and oolitic porosity, light to fair spotted oil stain in porosity, very slight show of free oil, dull yellow fluorescents, chalky, 22 units hotwire.
- LKC “I-zone” (3542’, -1647): Covered in DST #2**
 Ls – Fine crystalline, oolitic with poor oolitic porosity, light oil stain with scattered light saturation, fair show of free oil when broken, very light odor, fair yellow fluorescents, good cut, 130 units hotwire.

- LKC “J-zone”** (3558’, -1663): **Covered in DST #2**
 Ls – Fine crystalline, oolitic with fair oomoldic and oolitic porosity with scattered poor inter-crystalline porosity, light to fair oil stain in porosity, slight show of free oil, light to fair odor, fair yellow fluorescents, good cut, 55 units hotwire.
- LKC “K-zone”** (3588’, -1693): **Covered in DST #2**
 Ls – Fine crystalline, oolitic packstone with fair oomoldic and oolitic porosity, light to fair oil stain and saturation in porosity, fair show of free oil when broken, fair odor, fair yellow fluorescents, good cut, 75 units hotwire.
- Viola** (3613’, -1761): **Covered in DST #3**
 Chert – Mostly fresh, few weathered pieces with fair vuggy porosity, few scattered pieces of weathered dolomite with good vuggy porosity, light to heavy oil stain some oil looks very tarry, fair show of free oil on cup, light odor, dull to fair yellow fluorescents, fair to good cut, few visible gas bubbles, 63-117 units hotwire.
- Simpson Sand** (3770’, -1875): **Covered in DST #4**
 Ss – Quartz, clear to slightly frosted, fine to scattered medium grained, fair to well sorted, sub-rounded, fair cementation with poor to fair inter-granular porosity in cluster, light to good oil stain with light saturation, fair show of free oil, light gassy odor, many gas bubbles on break, bright yellow fluorescents, excellent cut, 85 units hotwire.
- Arbuckle** (3804’, -1909): **Covered in DST #5**
 Dolo – Fine to medium rhombic crystalline with fair oomoldic and inter-crystalline porosity, light to good oil stain and saturation, good show of free oil, good odor, poor to fair yellow fluorescents, good cut.

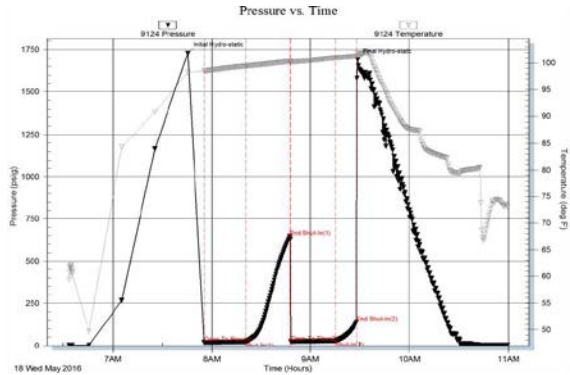
Drill Stem Tests
 Trilobite Testing, Inc.
 "Gary Pevoteaux"

DST #1 LKC B thru F zones

Interval (3430' – 3485') Anchor Length 55'

IHP	- 1728 #	
IFP	- 30" – Built to ½ in.	19-23 #
ISI	- 30" – Dead	647 #
FFP	- 25" – V.W.S.B.	24-28 #
FSI	- 10" – Dead	140 #
FHP	- 1690 #	
BHT	- 101°F	

Recovery: 10' Mud

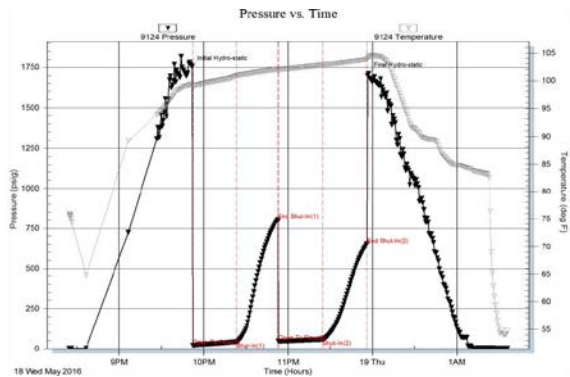


DST #2 LKC I thru K zones

Interval (3541' – 3605') Anchor Length 64'

IHP	- 1756 #	
IFP	- 30" – Built to 1 in.	20-41 #
ISI	- 30" – Dead	805 #
FFP	- 30" – Built to ¾ in.	47-57 #
FSI	- 30" – Dead	653 #
FHP	- 1711 #	
BHT	- 104°F	

Recovery: 65' Heavy Mud

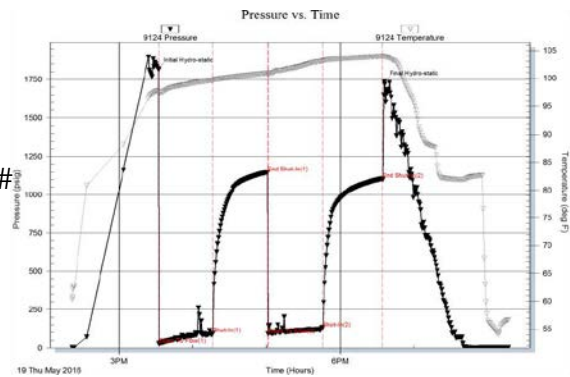


DST #3 Viola

Interval (3627' – 3740') Anchor Length 113'

IHP	- 1820 #	
IFP	- 45" – Built to 6 in.	26-94 #
ISI	- 45" – Dead	1148 #
FFP	- 45" – Built to 4 in.	90-131 #
FSI	- 45" – Dead	1105#
FHP	- 1734 #	
BHT	- 104°F	

Recovery: 100' WM 26% Water
 100' WM 15% Water

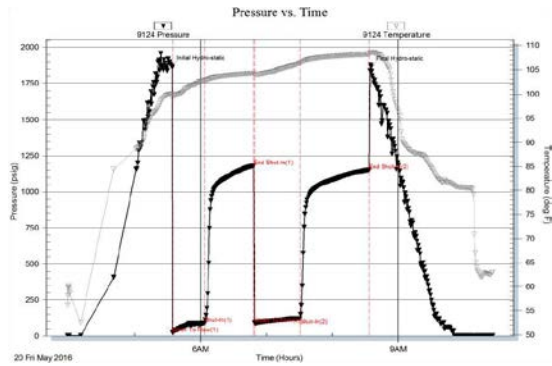


DST #4 Simpson Sand

Interval (3738' – 3790') Anchor Length 52'

IHP – 1867 #
 IFP – 30" – B.O.B. 28 min. 22-90 #
 ISI – 45" – Built to ½ in. 1183 #
 FFP – 45" – B.O.B. 16 min. 88-122 #
 FSI – 60" – Built to 3 in. 1153 #
 FHP – 1864 #
 BHT – 108°F

Recovery: 450' GIP
 145' GMCO 55% Oil
 120' GOCM 24% Oil

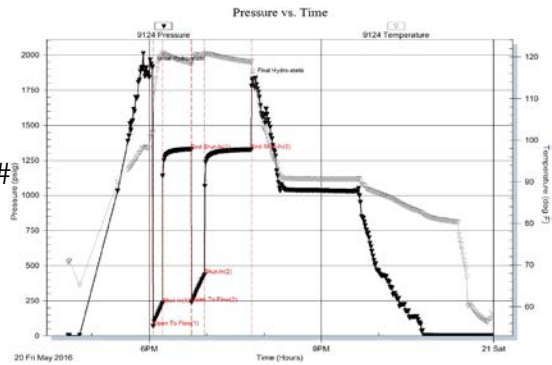


DST #5 Arbuckle

Interval (3809' – 3817') Anchor Length 8'

IHP – 1916 #
 IFP – 10" – B.O.B. 3 min. 67-229 #
 ISI – 30" – Built to ½ in. 1325 #
 FFP – 15" – B.O.B. 16 min. 236-435 #
 FSI – 45" – Built to 3 in. 1327 #
 FHP – 1830 #
 BHT – 120cF

Recovery: 90' GIP
 100' GCO 21.6° API
 380' GWCO 55% Oil, 25% Water
 125' OCW 20% Oil, 80% Water
 365' Water



Structural Comparison

Formation	StrataKan Exploration	L.K. Parrish		Lesden Oil & Gas	
	Andrews #22-1 Sec. 22 T22s R13w 950' FNL & 2050' FWL	Williams #1 Sec. 22 T22s R13w NE SE NW		Mater #1 Sec. 22 T22s R13w 100' SW of NE NW NE	
Anhydrite	751', +1144	NA	NA	NA	NA
Base	774', +1121	NA	NA	NA	NA
Topeka	2950', -1055	NA	NA	NA	NA
Heebner	3254', -1359	3262', -1364	(+5)	3255', -1347	(-8)
Toronto	3272', -1377	NA	NA	NA	NA
Douglas	3286', -1391	NA	NA	NA	NA
Brown Lime	3382', -1487	NA	NA	NA	NA
Lansing	3403', -1508	3412', -1517	(+9)	3406', -1500	(-8)
BKC	3628', -1733	3638', -1738	(+5)	3630', -1723	(-10)
Viola	3704', -1793	3696', -1798	(+5)	3702', -1795	(+2)
Simpson	3748', -1853	3754', -1856	(+3)	3746', -1839	(-14)
Arbuckle	3804', -1909	3812', -1914	(+5)	3806', -1900	(-9)

Summary

The location for the Andrews #22-1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Five Drill Stem Tests were conducted, two of which recovered commercial amounts of oil from the Simpson and Arbuckle Formations. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Andrews #22-1 well.

Recommended Perforations

Primary:

Arbuckle 2 nd Break	3826' – 3829'	Not Tested
Arbuckle	3804' – 3807'	DST #5

Secondary:

Simpson Sand	3771' – 3776'	DST #4
--------------	---------------	--------

Before Abandonment:

LKC K	3589' – 3594'	DST #2
LKC J	3560' – 3564'	DST #2
	3566' – 3570'	
LKC I	3544' – 3550'	DST #2

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.18 @ 06:33:25

End Date: 2016.05.18 @ 10:59:10

Job Ticket #: 57949 DST #: 1

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

Printed: 2016.05.23 @ 15:07:27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
204 W. Mill St.
Plainville KS. 67663
ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 57949

DST#: 1

Test Start: 2016.05.18 @ 06:33:25

GENERAL INFORMATION:

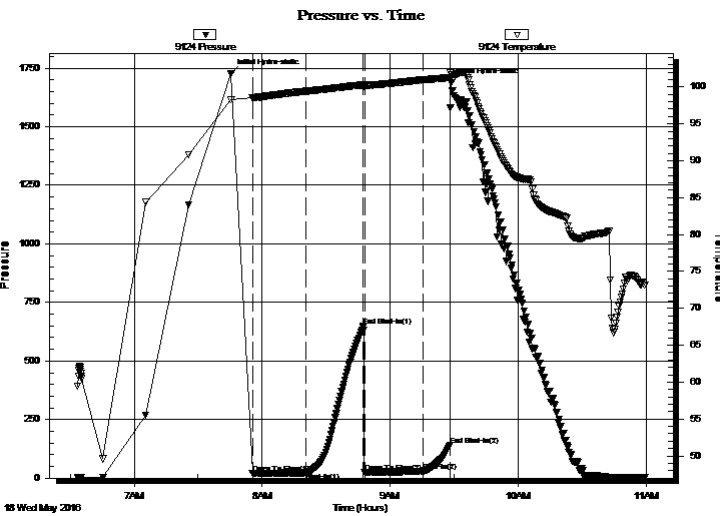
Formation: **LKC "B - F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:55:25
 Tester: Gary Pevoteaux
 Time Test Ended: 10:59:10
 Unit No: 80
 Interval: **3430.00 ft (KB) To 3485.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3485.00 ft (KB) (TVD)
 1890.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 9124

Outside

Press@RunDepth: 28.29 psig @ 3431.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.18 End Date: 2016.05.18 Last Calib.: 2016.05.18
 Start Time: 06:33:30 End Time: 10:59:09 Time On Btm: 2016.05.18 @ 07:45:25
 Time Off Btm: 2016.05.18 @ 09:28:40

TEST COMMENT: IF:Weak blow . 1/4 - 1/2".
 IS:No blow .
 FF:Very weak blow . (surface)
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.16	98.25	Initial Hydro-static
10	19.66	98.50	Open To Flow (1)
35	23.06	99.41	Shut-In(1)
62	647.20	100.29	End Shut-In(1)
63	24.53	100.11	Open To Flow (2)
90	28.29	100.97	Shut-In(2)
103	140.64	101.27	End Shut-In(2)
104	1689.53	101.59	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57949

DST#: 1

ATTN: Jason Alm

Test Start: 2016.05.18 @ 06:33:25

Tool Information

Drill Pipe:	Length: 3302.00 ft	Diameter: 3.80 inches	Volume: 46.32 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3430.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			3411.00	
Shut In Tool	5.00			3416.00	
Hydraulic tool	5.00			3421.00	
Packer	4.00			3425.00	20.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Recorder	0.00	9124	Outside	3431.00	
Recorder	0.00	6798	Inside	3431.00	
Perforations	6.00			3437.00	
Blank Spacing	32.00			3469.00	
Perforations	11.00			3480.00	
Bullnose	5.00			3485.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57949

DST#: 1

ATTN: Jason Alm

Test Start: 2016.05.18 @ 06:33:25

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:

5000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

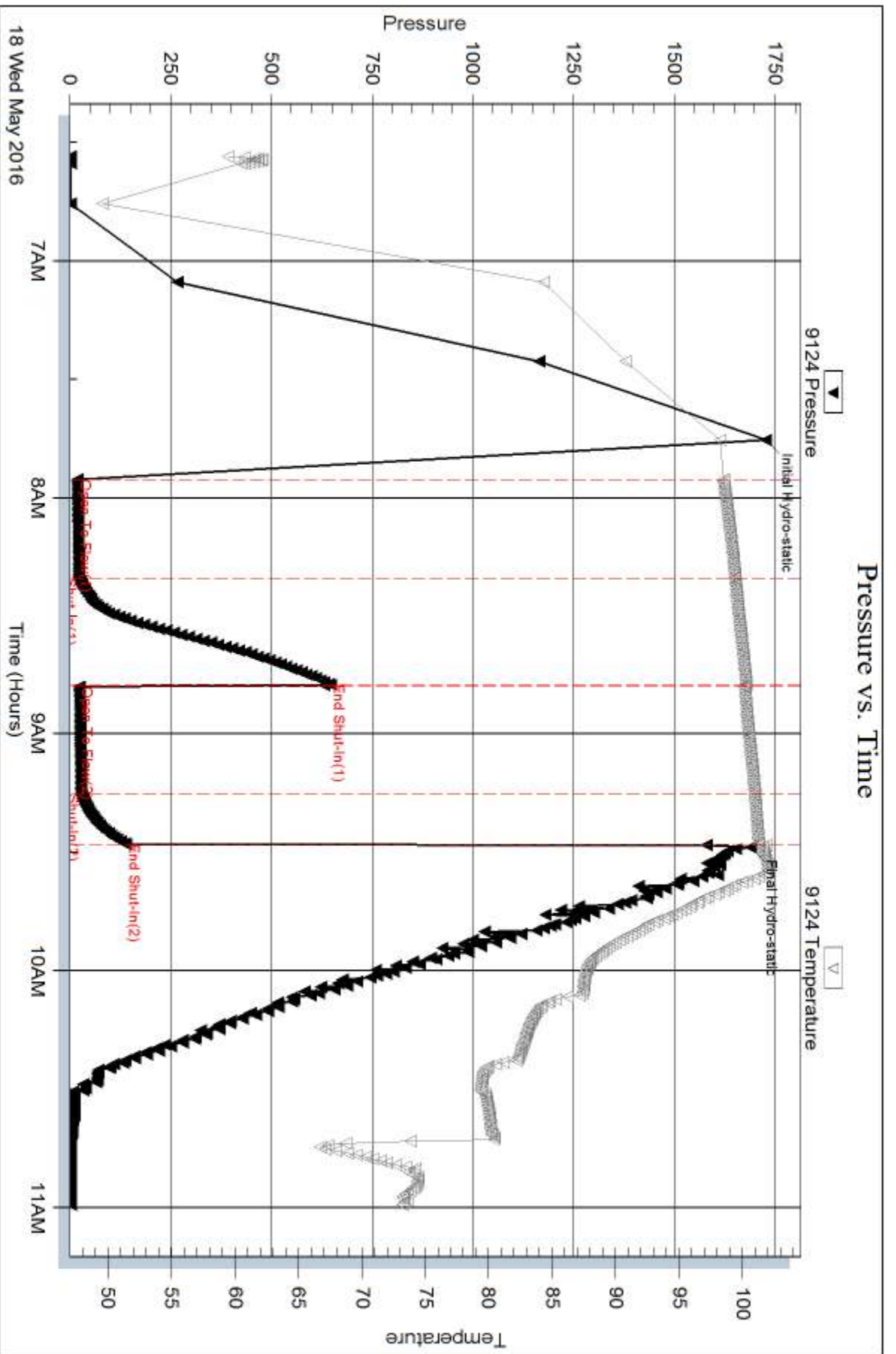
Num Gas Bombs: 0

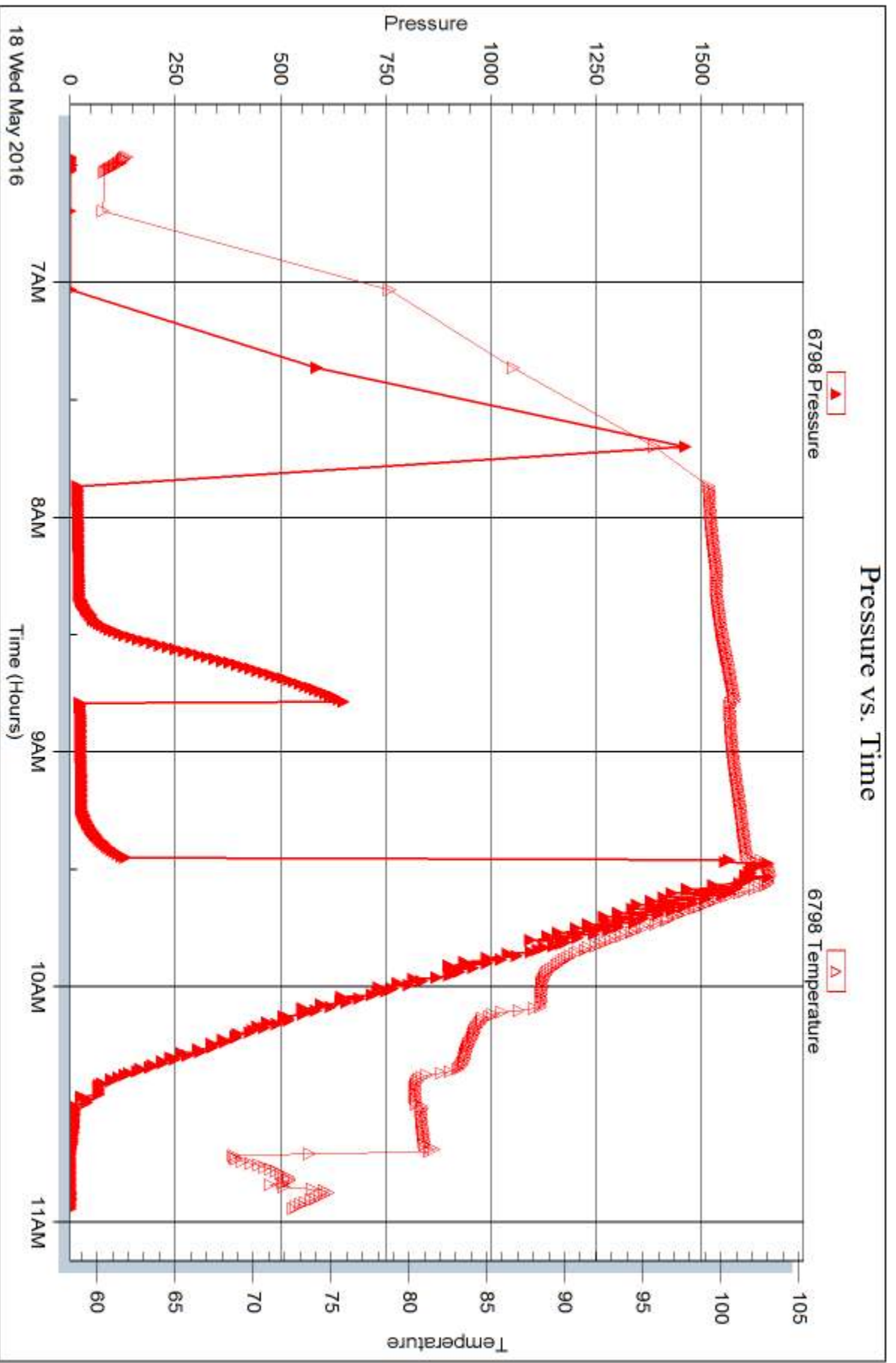
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.18 @ 20:24:20

End Date: 2016.05.19 @ 01:36:05

Job Ticket #: 57950 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.05.23 @ 15:07:04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 57950

DST#: 2

Test Start: 2016.05.18 @ 20:24:20

GENERAL INFORMATION:

Formation: **LKC "I - K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:52:05
 Time Test Ended: 01:36:05
 Interval: **3541.00 ft (KB) To 3605.00 ft (KB) (TVD)**
 Total Depth: 3605.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

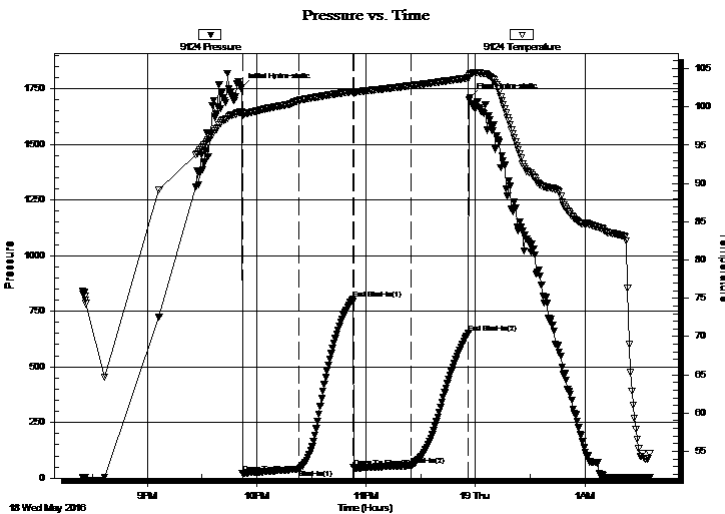
Serial #: 9124

Outside

Press@RunDepth: 56.77 psig @ 3542.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.18 End Date: 2016.05.19 Last Calib.: 2016.05.19
 Start Time: 20:24:25 End Time: 01:36:04 Time On Btm: 2016.05.18 @ 21:51:35
 Time Off Btm: 2016.05.18 @ 23:57:05

TEST COMMENT: IF:Weak blow . 1/2 - 1".
 IS:No blow .
 FF:Weak blow . 1/2 - 3/4".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.78	99.36	Initial Hydro-static
1	20.39	98.90	Open To Flow (1)
32	41.33	100.84	Shut-In(1)
61	805.09	102.01	End Shut-In(1)
62	47.85	101.79	Open To Flow (2)
93	56.77	102.78	Shut-In(2)
125	653.00	103.78	End Shut-In(2)
126	1710.58	104.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Heavy mud	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57950

DST#: 2

ATTN: Jason Alm

Test Start: 2016.05.18 @ 20:24:20

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 48.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3541.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3522.00	
Shut In Tool	5.00			3527.00	
Hydraulic tool	5.00			3532.00	
Packer	4.00			3536.00	20.00 Bottom Of Top Packer
Packer	5.00			3541.00	
Stubb	1.00			3542.00	
Recorder	0.00	9124	Outside	3542.00	
Recorder	0.00	6798	Inside	3542.00	
Perforations	6.00			3548.00	
Blank Spacing	32.00			3580.00	
Perforations	20.00			3600.00	
Bullnose	5.00			3605.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 57950

DST#: 2

ATTN: Jason Alm

Test Start: 2016.05.18 @ 20:24:20

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:

5000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	Heavy mud	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbf

Num Fluid Samples: 0

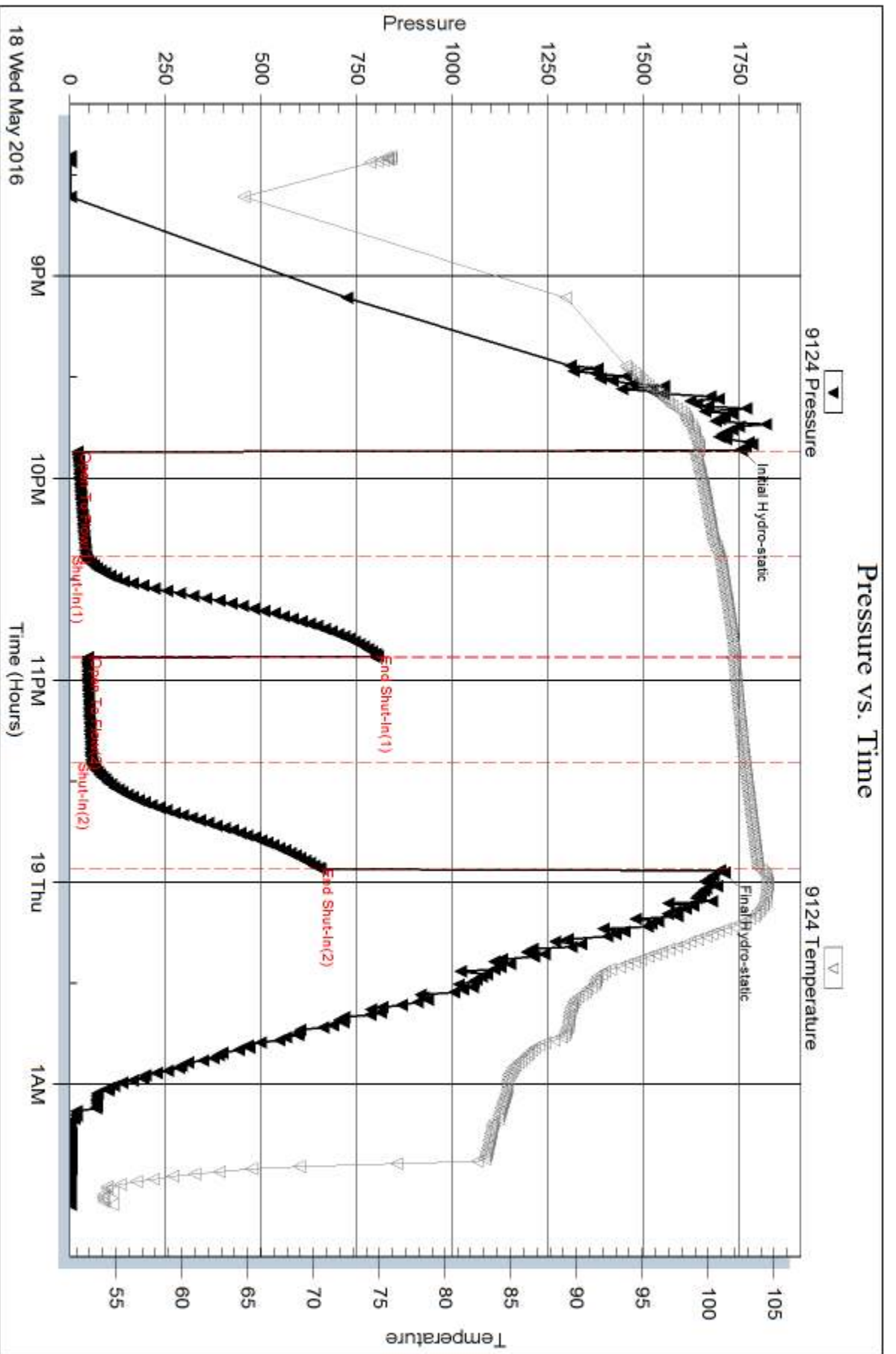
Num Gas Bombs: 0

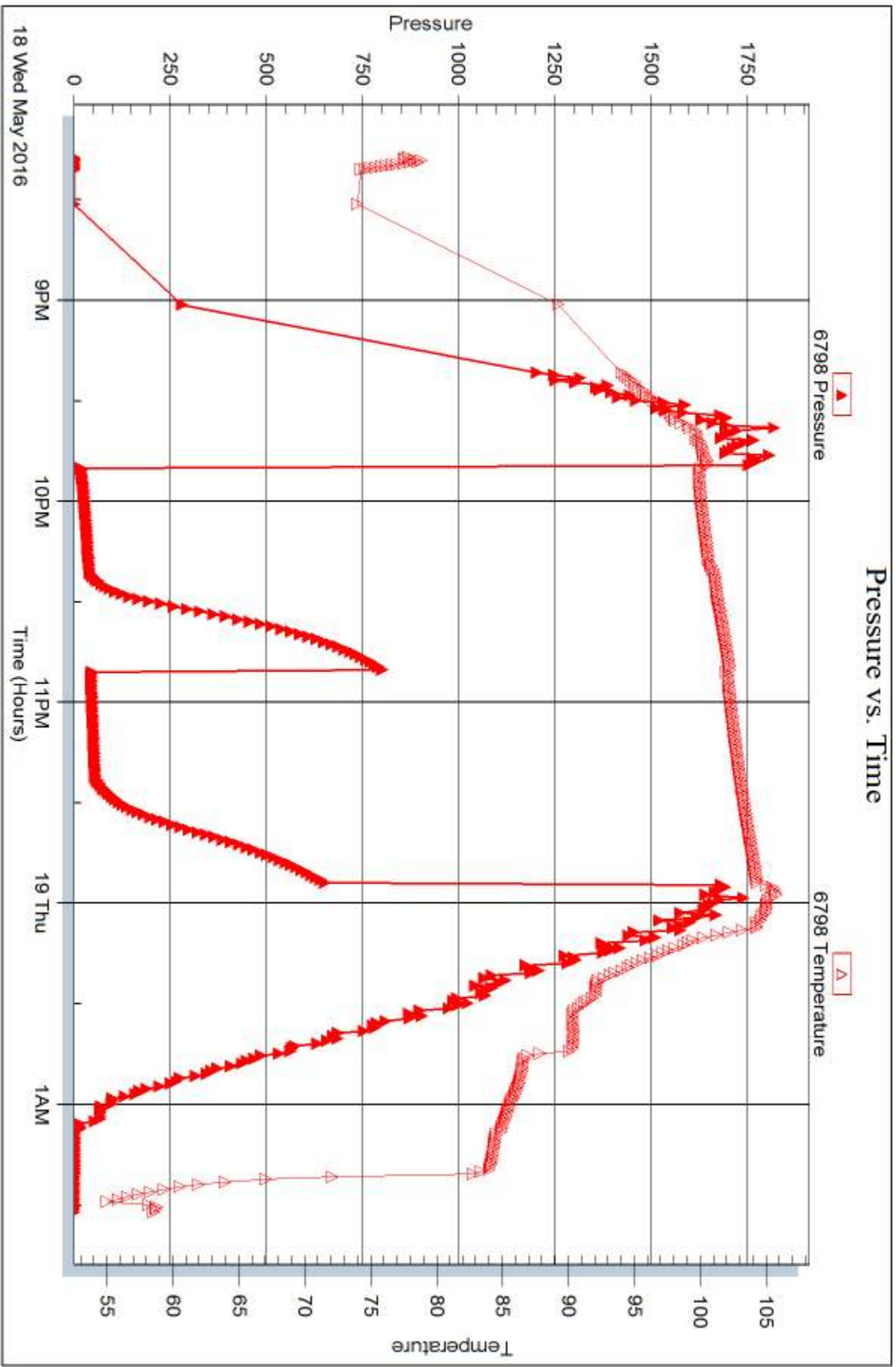
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.19 @ 14:21:46

End Date: 2016.05.19 @ 20:16:31

Job Ticket #: 63076 DST #: 3

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

Printed: 2016.05.23 @ 15:06:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 63076

DST#: 3

Test Start: 2016.05.19 @ 14:21:46

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:32:31
 Time Test Ended: 20:16:31
 Interval: **3627.00 ft (KB) To 3740.00 ft (KB) (TVD)**
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

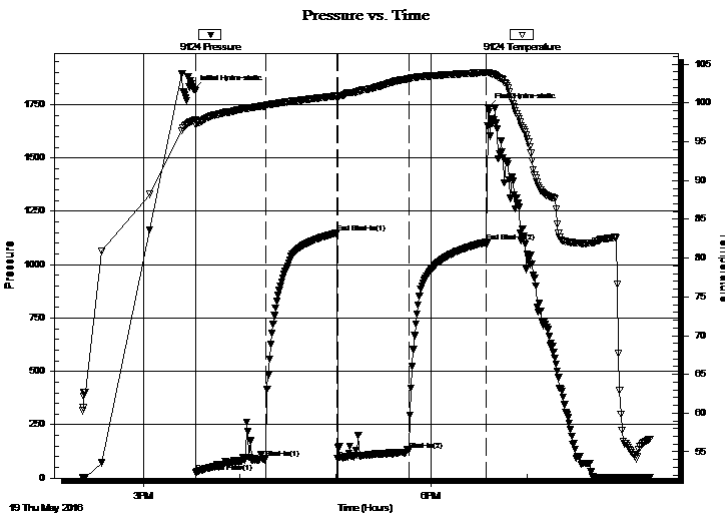
Serial #: 9124

Outside

Press@RunDepth: 131.09 psig @ 3628.00 ft (KB)
 Start Date: 2016.05.19 End Date: 2016.05.19
 Start Time: 14:21:51 End Time: 20:16:30
 Capacity: 8000.00 psig
 Last Calib.: 2016.05.19
 Time On Btm: 2016.05.19 @ 15:31:31
 Time Off Btm: 2016.05.19 @ 18:35:46

TEST COMMENT: IF:Fair blow . Increase to 6".
 IS:No blow .
 FF:Weak to fair blow . 1 - 4".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.09	97.74	Initial Hydro-static
1	26.57	97.15	Open To Flow (1)
45	94.18	99.66	Shut-In(1)
90	1148.20	100.91	End Shut-In(1)
90	90.04	100.62	Open To Flow (2)
135	131.09	103.13	Shut-In(2)
183	1105.40	103.96	End Shut-In(2)
185	1734.00	103.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	WM 26%w 74%m	0.49
100.00	WM 15%w 85%m	1.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63076

DST#: 3

ATTN: Jason Alm

Test Start: 2016.05.19 @ 14:21:46

Tool Information

Drill Pipe:	Length: 3493.00 ft	Diameter: 3.80 inches	Volume: 49.00 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 49.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3627.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	133.00 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			3608.00	
Shut In Tool	5.00			3613.00	
Hydraulic tool	5.00			3618.00	
Packer	4.00			3622.00	20.00 Bottom Of Top Packer
Packer	5.00			3627.00	
Stubb	1.00			3628.00	
Recorder	0.00	9124	Outside	3628.00	
Recorder	0.00	6798	Inside	3628.00	
Perforations	6.00			3634.00	
Blank Spacing	95.00			3729.00	
Perforations	6.00			3735.00	
Bullnose	5.00			3740.00	113.00 Bottom Packers & Anchor

Total Tool Length: 133.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63076

DST#: 3

ATTN: Jason Alm

Test Start: 2016.05.19 @ 14:21:46

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:

41000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	WM 26%w 74%m	0.492
100.00	WM 15%w 85%m	1.221

Total Length: 200.00 ft Total Volume: 1.713 bbl

Num Fluid Samples: 0

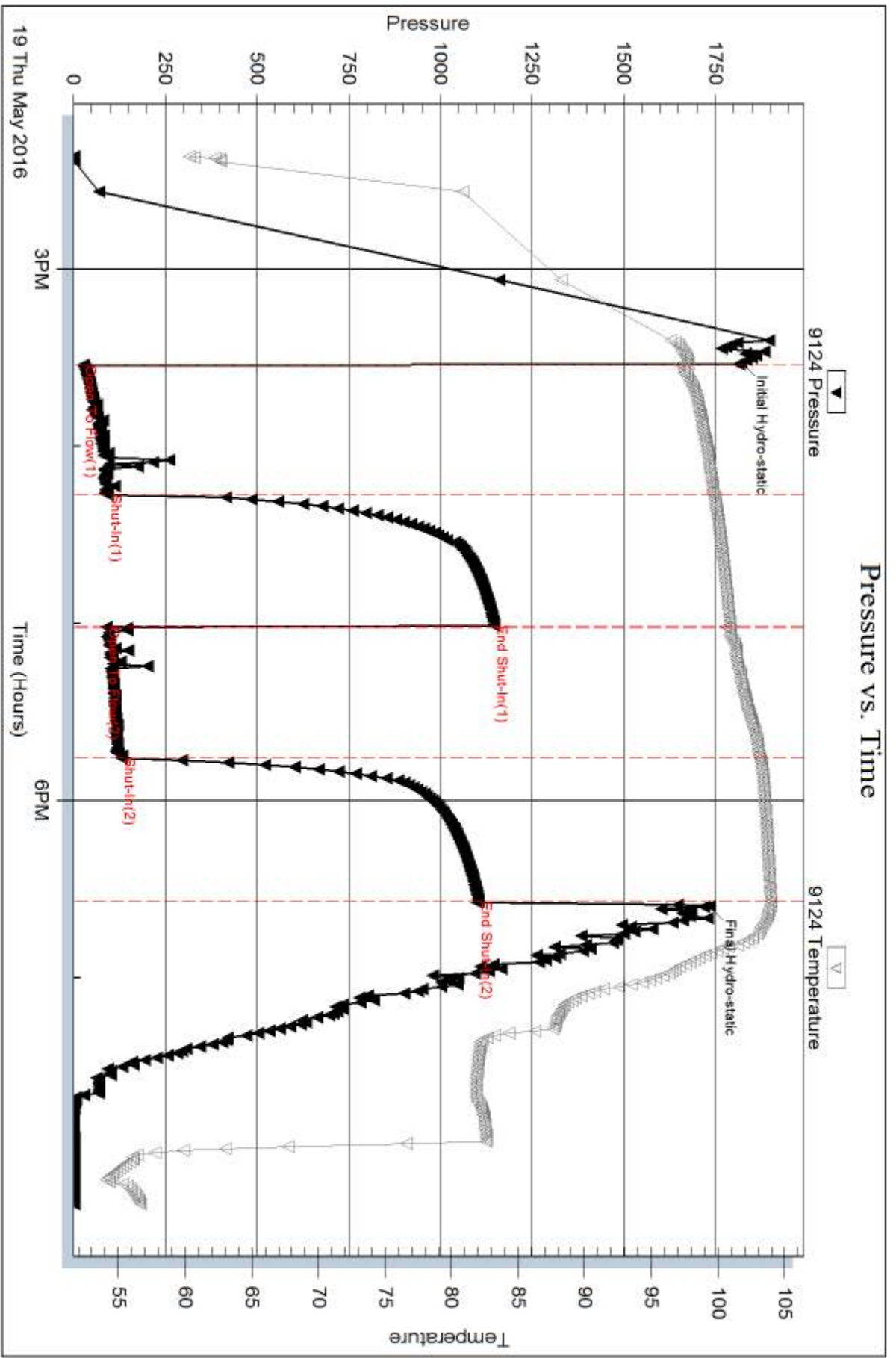
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .12 @ 67deg



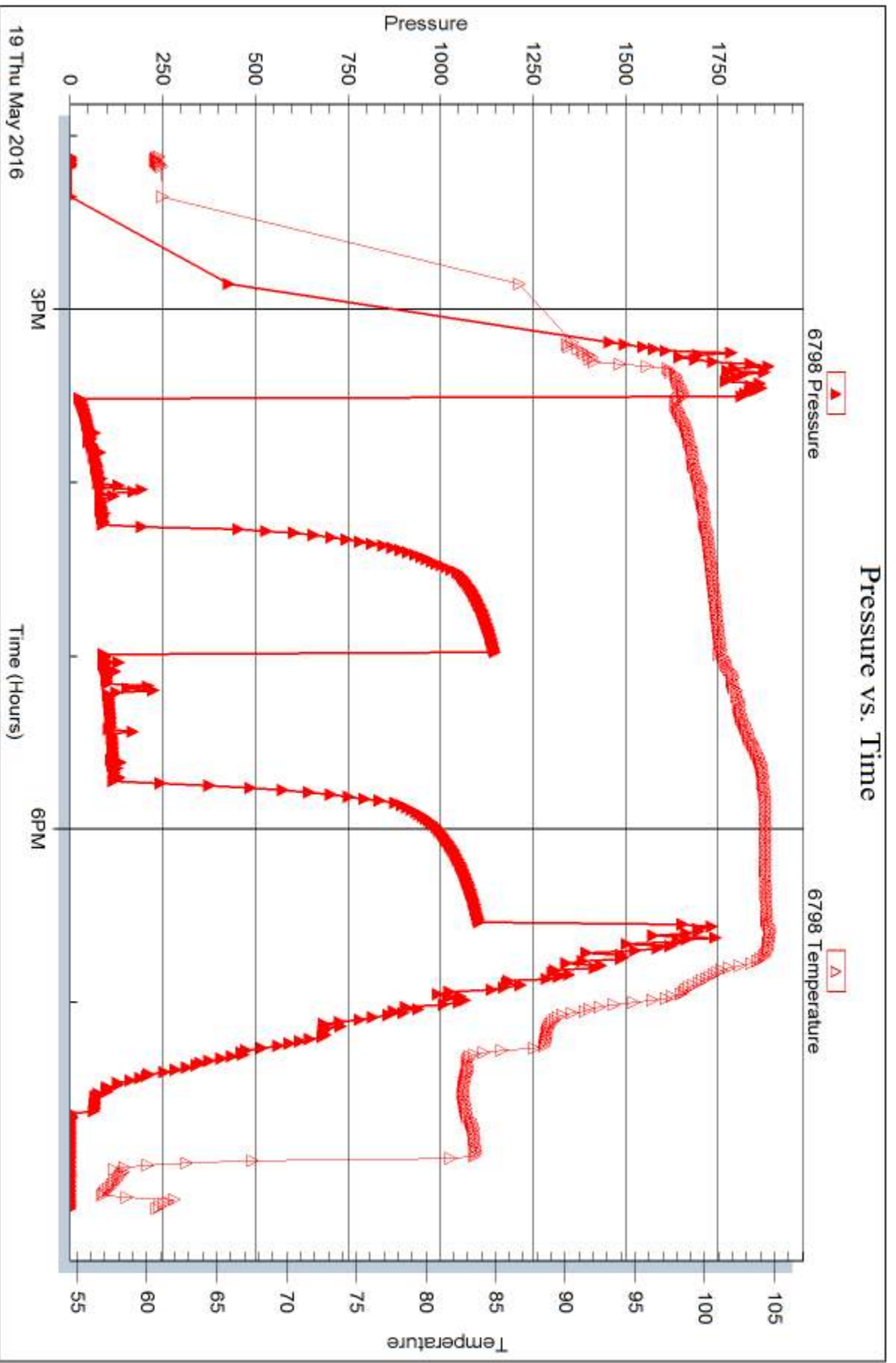
Serial #: 6798

Inside

Stratakan Expl. Inc.

Andrew's #22-1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.20 @ 03:58:39

End Date: 2016.05.20 @ 10:24:54

Job Ticket #: 63077 DST #: 4

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

Printed: 2016.05.23 @ 15:06:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
 204 W. Mill St.
 Plainville KS. 67663
 ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 63077

DST#: 4

Test Start: 2016.05.20 @ 03:58:39

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:34:09
 Time Test Ended: 10:24:54
 Interval: **3728.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1895.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 5.00 ft

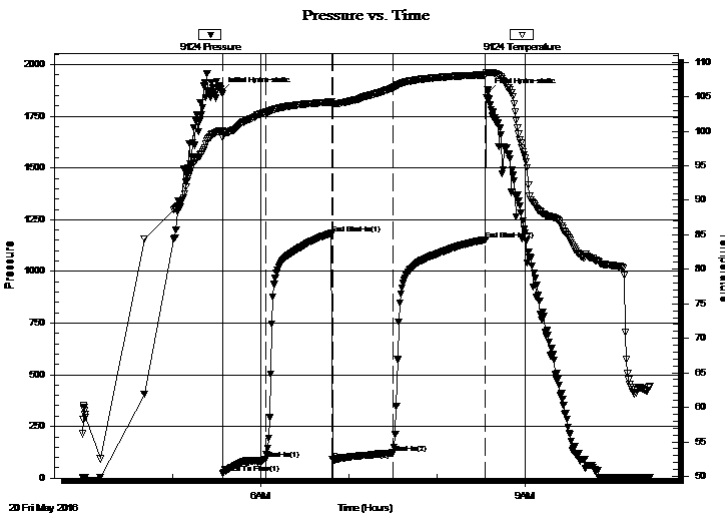
Serial #: 9124

Outside

Press@RunDepth: 121.97 psig @ 3729.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.20 End Date: 2016.05.20 Last Calib.: 2016.05.20
 Start Time: 03:58:44 End Time: 10:24:53 Time On Btm: 2016.05.20 @ 05:33:09
 Time Off Btm: 2016.05.20 @ 08:34:54

TEST COMMENT: IF:Fair to strong blow . B.O.B. in 28 mins.
 IS:Weak blow . 1/2".
 FF:Strong blow . B.O.B. in 16 mins.
 FS:Weak blow . 1 - 3".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.40	100.06	Initial Hydro-static
1	22.84	99.08	Open To Flow (1)
30	89.84	102.71	Shut-In(1)
75	1183.34	104.24	End Shut-In(1)
76	88.06	104.03	Open To Flow (2)
118	121.97	106.35	Shut-In(2)
180	1153.38	108.17	End Shut-In(2)
182	1863.68	108.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 51%g 24%o 25%m	0.59
145.00	GMCO 20%g 25%m 55%o	2.03
0.00	450 ft.of 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

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63077

DST#: 4

ATTN: Jason Alm

Test Start: 2016.05.20 @ 03:58:39

Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.80 inches	Volume: 50.78 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: 23000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 51.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3728.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			3709.00	
Shut In Tool	5.00			3714.00	
Hydraulic tool	5.00			3719.00	
Packer	4.00			3723.00	20.00 Bottom Of Top Packer
Packer	5.00			3728.00	
Stubb	1.00			3729.00	
Recorder	0.00	9124	Outside	3729.00	
Recorder	0.00	6798	Inside	3729.00	
Perforations	6.00			3735.00	
Blank Spacing	32.00			3767.00	
Perforations	18.00			3785.00	
Bullnose	5.00			3790.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63077

DST#: 4

ATTN: Jason Alm

Test Start: 2016.05.20 @ 03:58:39

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:

9000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GOCM 51%g 24%o 25%m	0.590
145.00	GMCO 20%g 25%m 55%o	2.034
0.00	450 ft.of GIP	0.000

Total Length: 265.00 ft

Total Volume: 2.624 bbl

Num Fluid Samples: 0

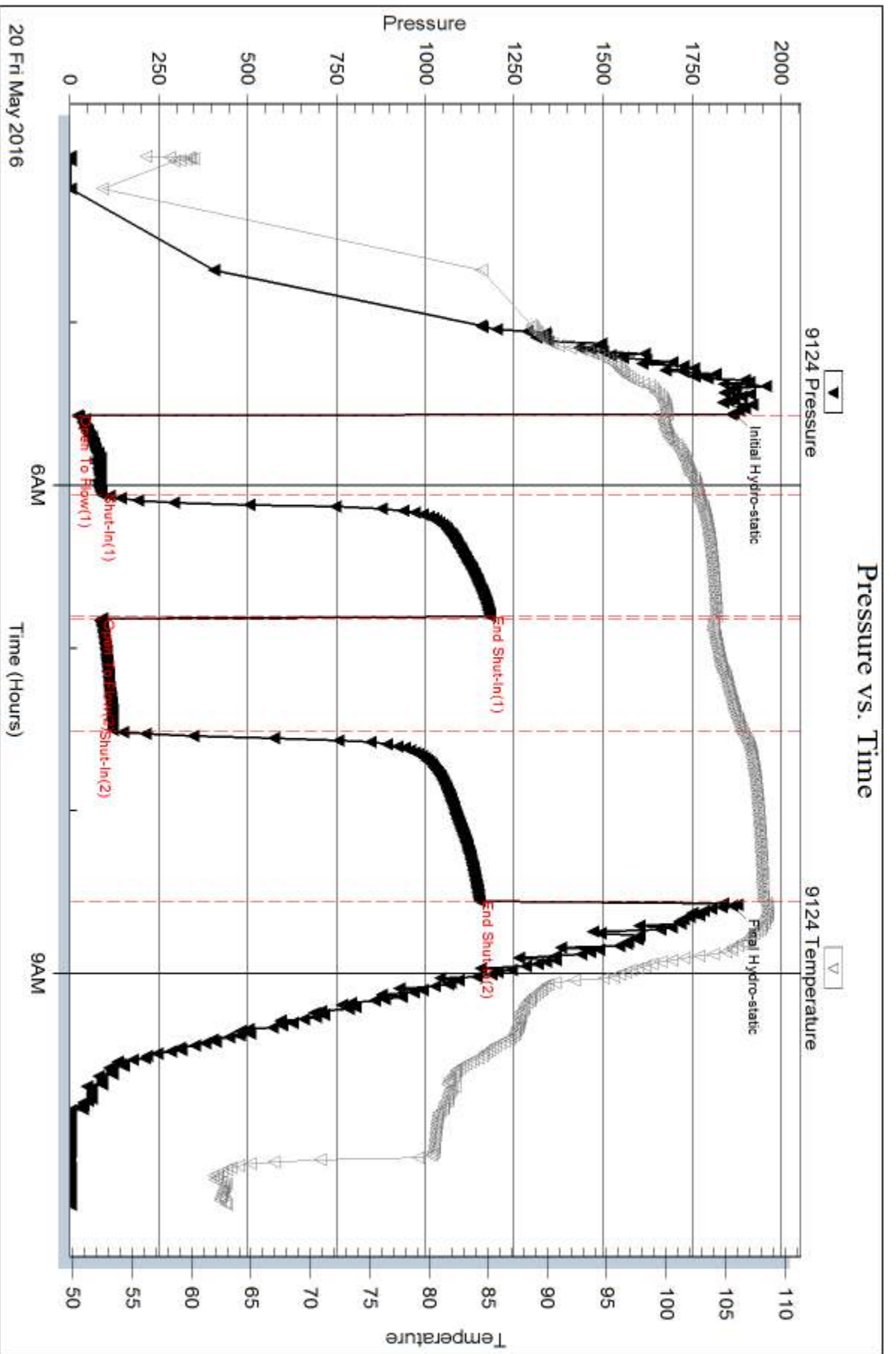
Num Gas Bombs: 0

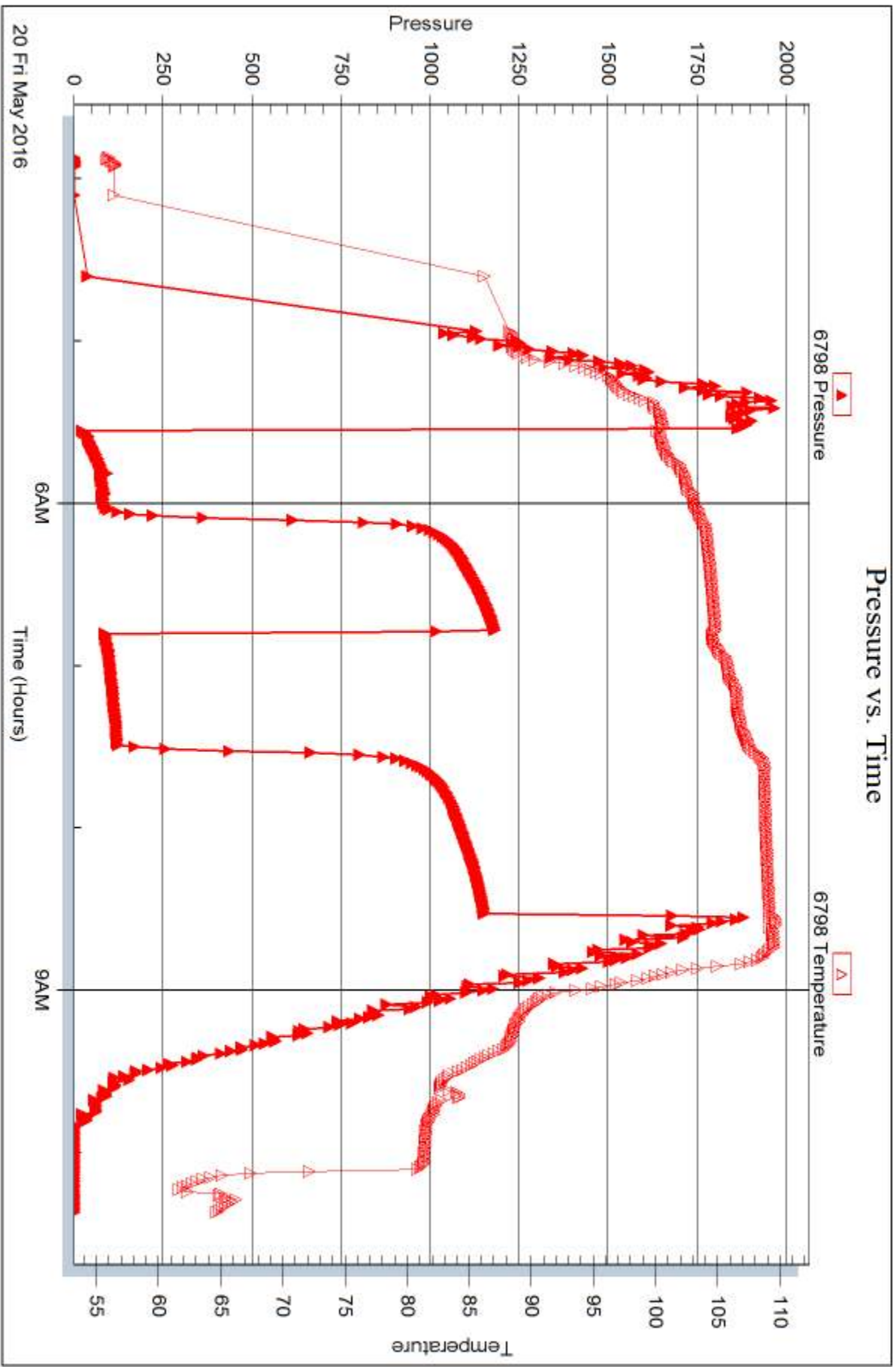
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Stratakan Expl. Inc.**

204 W. Mill St.
Plainville KS. 67663

ATTN: Jason Alm

Andrews #22-1

22-22s-13w Stafford KS

Start Date: 2016.05.20 @ 16:35:02

End Date: 2016.05.20 @ 23:58:02

Job Ticket #: 63078 DST #: 5

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

Printed: 2016.05.23 @ 15:05:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Expl. Inc.
204 W. Mill St.
Plainville KS. 67663
ATTN: Jason Alm

22-22s-13w Stafford KS

Andrews #22-1

Job Ticket: 63078

DST#: 5

Test Start: 2016.05.20 @ 16:35:02

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:03:47
 Tester: Gary Pevoteaux
 Time Test Ended: 23:58:02
 Unit No: 80
 Interval: **3809.00 ft (KB) To 3817.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3817.00 ft (KB) (TVD)
 1890.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

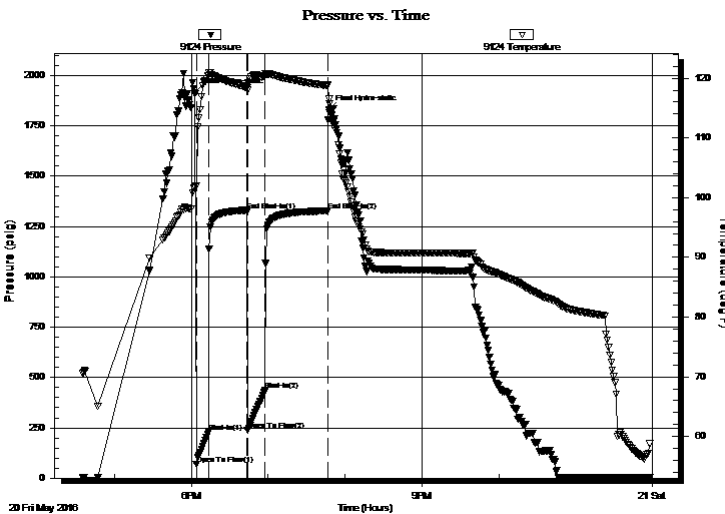
Serial #: 9124

Outside

Press@RunDepth: 434.70 psig @ 3810.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.20 End Date: 2016.05.20 Last Calib.: 2016.05.21
 Start Time: 16:35:07 End Time: 23:58:01 Time On Btm: 2016.05.20 @ 18:02:32
 Time Off Btm: 2016.05.20 @ 19:47:32

TEST COMMENT: IF: Strong blow . B.O.B. in 3 mins.
 IS: No blow .
 FF: Strong blow . B.O.B. in 3 - 4 mins.
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.49	101.83	Initial Hydro-static
2	67.79	101.98	Open To Flow (1)
11	229.43	120.45	Shut-In(1)
41	1325.68	118.43	End Shut-In(1)
42	236.17	118.00	Open To Flow (2)
55	434.70	120.38	Shut-In(2)
104	1327.42	118.78	End Shut-In(2)
105	1829.83	116.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	SW	4.03
125.00	OCW 20%o 80%w	1.75
380.00	G&WCO 20%g 25%w 55%o	5.33
100.00	Clean oil	1.40
0.00	90 ft.of 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

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63078

DST#: 5

ATTN: Jason Alm

Test Start: 2016.05.20 @ 16:35:02

Tool Information

Drill Pipe:	Length: 3684.00 ft	Diameter: 3.80 inches	Volume: 51.68 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: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 52.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3809.00 ft			Final 60500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 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			3790.00	
Shut In Tool	5.00			3795.00	
Hydraulic tool	5.00			3800.00	
Packer	4.00			3804.00	20.00 Bottom Of Top Packer
Packer	5.00			3809.00	
Stubb	1.00			3810.00	
Recorder	0.00	9124	Outside	3810.00	
Recorder	0.00	6798	Inside	3810.00	
Perforations	2.00			3812.00	
Bullnose	5.00			3817.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Expl. Inc.

22-22s-13w Stafford KS

204 W. Mill St.
Plainville KS. 67663

Andrews #22-1

Job Ticket: 63078

DST#: 5

ATTN: Jason Alm

Test Start: 2016.05.20 @ 16:35:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
365.00	SW	4.027
125.00	OCW 20%o 80%w	1.753
380.00	G&WCO 20%g 25%w 55%o	5.330
100.00	Clean oil	1.403
0.00	90 ft.of GIP	0.000

Total Length: 970.00 ft Total Volume: 12.513 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

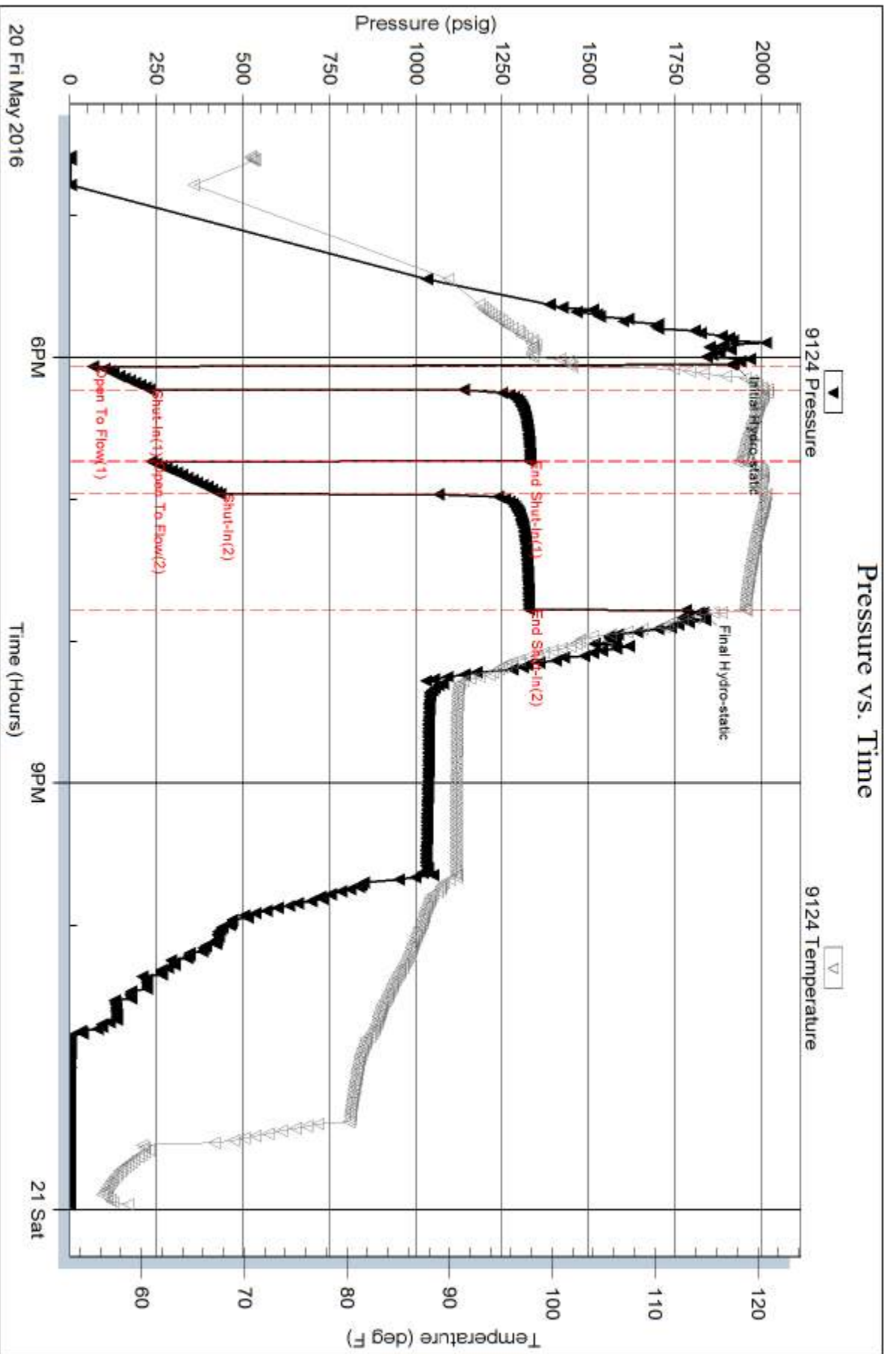
Recovery Comments: Rw .21ohms@70deg

Serial #: 9124

Outside Stratakan Expl. Inc.

Andrew's #22-1

DST Test Number: 5



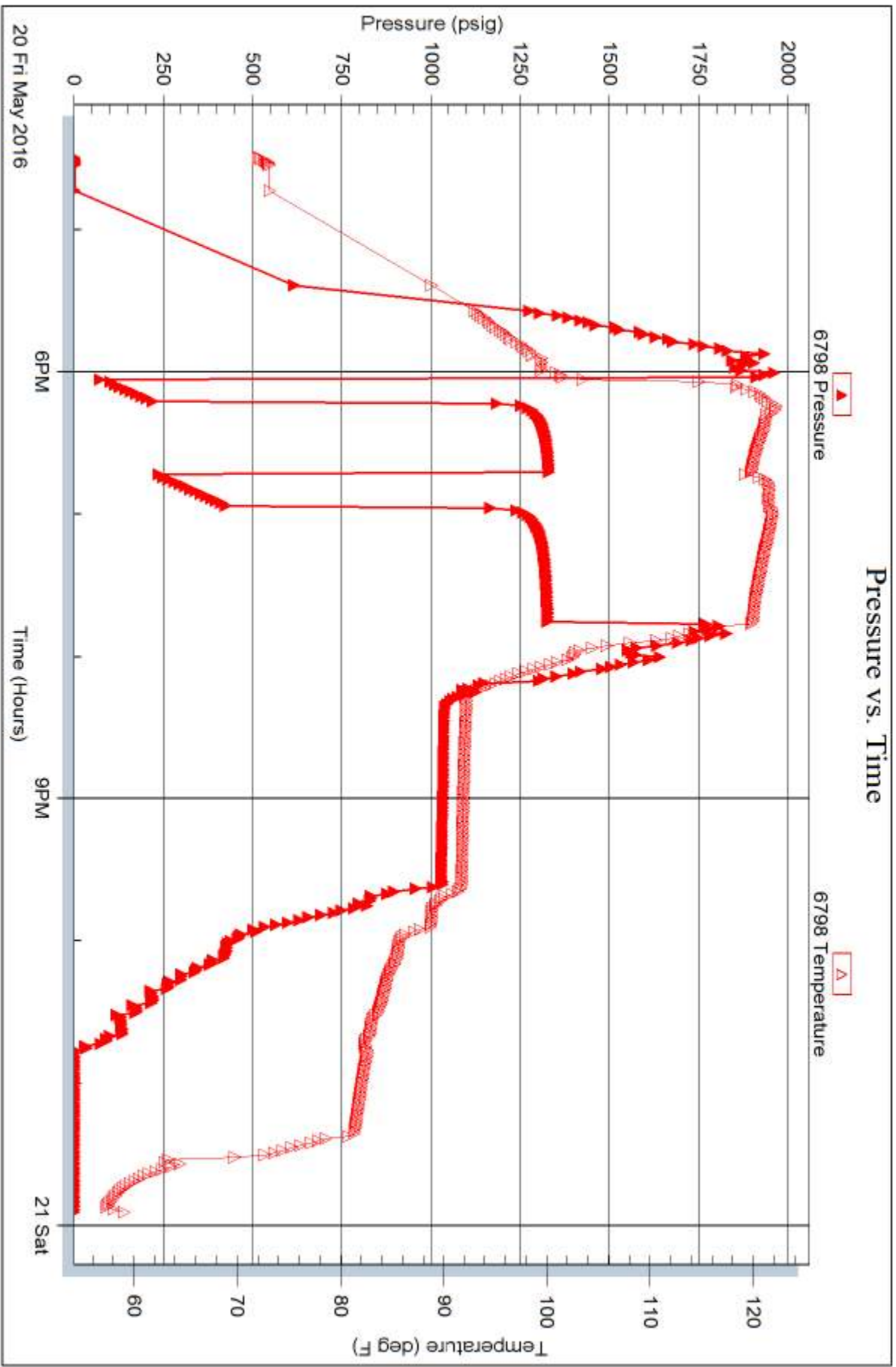
Serial #: 6798

Inside

Strական Expl. Inc.

Andrew's #22-1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63078

Printed: 2016.05.23 @ 15:05:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57949

4/10

Well Name & No. ANDREWS #22-1 Test No. 1 Date 5-18-2016
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. RAINVILLE KS. 67663
 Co. Rep / Geo. JASON ARM Rig WW DRILG. #4
 Location: Sec. 22 Twp. 22^S Rge. 13^W Co. STAFFORD State KS.

Interval Tested 3430 - 3485 Zone Tested LKC "B-F"
 Anchor Length 55' Drill Pipe Run 3302' Mud Wt: 9.1
 Top Packer Depth 3425' Drill Collars Run 120' Vis 50
 Bottom Packer Depth 3430' Wt. Pipe Run 0 WL 8.0cc
 Total Depth 3485' Chlorides 5,000 ppm System LCM 2ST
 Blow Description IF: weak blow. 1/4-1/2". ISI. No. below.

FF: Very weak blow. (surface) FSI. No. below.

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

Rec Total 10 BHT 101° Gravity N/A API RW N.C. @ ~ ° F Chlorides 5,000 ppm
 (A) Initial Hydrostatic 1728 Test 1050 T-On Location 0425
 (B) First Initial Flow 20 Jars _____ T-Started 0633
 (C) First Final Flow 23 Safety Joint _____ T-Open 0755
 (D) Initial Shut-In 647 Circ Sub _____ T-Pulled 0950
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 1059
 (F) Second Final Flow 28 Mileage (66) 49.50 Comments _____
 (G) Final Shut-In 141 Sampler _____
 (H) Final Hydrostatic 1690 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1099.50
 Final Flow 25 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 10 Sub Total 1099.50

Approved By _____

Our Representative Jason Armstrong

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. 57950

Well Name & No. ANDREWS # 22-1 Test No. 2 Date 5-18-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. PLAINVILLE KS. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRUG #4
 Location: Sec. 22 Twp. 22 Rge. 13^W Co. STAFFORD State Ks.

Interval Tested 3541-3605' Zone Tested LKC "I-K"
 Anchor Length 64' Drill Pipe Run 3430' Mud Wt. 9.1
 Top Packer Depth 3536' Drill Collars Run 120' Vis 50
 Bottom Packer Depth 3541' Wt. Pipe Run 0 WL 8.0 cc
 Total Depth 3605' Chlorides 5,000 ppm System LCM 2th
 Blow Description IF: Weak blow 1/2-1", ISI: No blow.

FF: Weak blow 1/2-3/4" FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Heavy mud</u>				

Rec Total 65 BHT 104° Gravity N/A API RW N.C. @ ~ °F Chlorides 5,000 ppm

(A) Initial Hydrostatic 1756 Test 1050 T-On Location 2005
 (B) First Initial Flow 20 Jars _____ T-Started 2024
 (C) First Final Flow 41 Safety Joint _____ T-Open 2152
 (D) Initial Shut-In 805 Circ Sub _____ T-Pulled 2358
 (E) Second Initial Flow 48 Hourly Standby _____ T-Out 0136
 (F) Second Final Flow 57 Mileage 66 49.50 Comments _____
 (G) Final Shut-In 653 Sampler _____
 (H) Final Hydrostatic 1711 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1099.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1099.50

Approved By _____ Our Representative Cony Davatony
 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. 63076

Well Name & No. ANDREWS #221 Test No. 3 Date 5-19-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 201 W. Mill St. Plainville Ks. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRG. #4
 Location: Sec. 22 Twp. 22^S Rge. 13^W Co. STAFFORD State KS.

Interval Tested 3627 - 3740' Zone Tested VIOLA
 Anchor Length 113' Drill Pipe Run 3493' Mud Wt. 9.0
 Top Packer Depth 3622' Drill Collars Run 120' Vis 54
 Bottom Packer Depth 3627' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 3740' Chlorides 9,000 ppm System LCM 1st
 Blow Description IF: Fair blow. Increase to 6". ISI: No blow

FF: Wash to fair blow. 1-4". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>WM</u>		<u>15</u>	<u>85</u>	
<u>100</u>	<u>WM</u>		<u>26</u>	<u>74</u>	

Rec Total 200 BHT 104° Gravity N/A API RW .12@ 67° F Chlorides 41,000 ppm
 (A) Initial Hydrostatic 1820 Test 1050 T-On Location 1345
 (B) First Initial Flow 27 Jars _____ T-Started 1421
 (C) First Final Flow 94 Safety Joint _____ T-Open 1532
 (D) Initial Shut-In 1148 Circ Sub _____ T-Pulled 1835
 (E) Second Initial Flow 90 Hourly Standby _____ T-Out 2016
 (F) Second Final Flow 131 Mileage 60 49.50 Comments _____
 (G) Final Shut-In 1105 Sampler _____
 (H) Final Hydrostatic 1734 Straddle _____
 Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Shale Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Sub Total 0
 Total 1099.50
 Sub Total 1099.50 MP/DST Disc't _____

Approved By _____

Our Representative Cory Piotrowski

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. 63077

Well Name & No. ANDREWS # 22-1 Test No. 4 Date 5-20-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. PAINEVILLE KS. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRIG. #4
 Location: Sec. 22 Twp. 22 S Rge. 13 W Co. STAFFORD State KS.

Interval Tested 3728 - 3790' Zone Tested SIMPSON SD.
 Anchor Length 62' Drill Pipe Run 3620' Mud Wt. 9.0
 Top Packer Depth 3723' Drill Collars Run 120' Vis 53
 Bottom Packer Depth 3728' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 3790' Chlorides 9,000 ppm System LCM 1-2#

Blow Description IF: Fair to strong below, B.O.B. in 28 mins.
ISI: Weak below, 1/2"
FF: Strong below, B.O.B. in 16 mins. FSI: Weak below, 1-3"

Rec	Feet of	%gas	%oil	%water	%mud
450	Gas in pipe				
145	GMC0	20	55	25	
120	GOCM	51	24	25	

Rec Total 205 Fluid BHT 108° Gravity N/A API RW N.C. @ ← °F Chlorides 9,000 ppm

(A) Initial Hydrostatic <u>1867</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0349</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars	T-Started <u>0358</u>
(C) First Final Flow <u>90</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0534</u>
(D) Initial Shut-In <u>1183</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0835</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1024</u>
(F) Second Final Flow <u>122</u>	<input checked="" type="checkbox"/> Mileage <u>49.50</u>	Comments
(G) Final Shut-In <u>1153</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1864</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1099.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1099.50</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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63078

Well Name & No. ANDREWS # 22-1 Test No. 5 Date 5-20-16
 Company STRATAKAN EXPL. INC. Elevation 1895 KB 1890 GL
 Address 204 W. MILL ST. PLAINVILLE KS. 67663
 Co. Rep / Geo. JASON ALM Rig WW DRILL #4
 Location: Sec. 22 Twp. 22S Rge. 13W Co. STAFFORD State Ks.

Interval Tested 3809-3817' Zone Tested ARBUCKLE
 Anchor Length 8' Drill Pipe Run 3684' Mud Wt. 9.1
 Top Packer Depth 3804' Drill Collars Run 120' Vis 52
 Bottom Packer Depth 3809' Wt. Pipe Run 0 WL 10.4 cc
 Total Depth 3817' Chlorides 9,000 ppm System LCM 2th
 Blow Description IF: Strong blow. B.O.B. in 3 mins. IST: No blow.

FF: Strong blow. B.O.B. in 3-4 mins. FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
90	GIP				
100	Clean oil				
380	G&WCO	20	55	25	
125	OCW	20	80		
365	SW				

Rec Total 970 Fluid BHT 1190 Gravity 21.6 API RW 21 @ 70 °F Chlorides 33000 ppm

(A) Initial Hydrostatic 1916 Test 1050 T-On Location 1609
 (B) First Initial Flow 68 Jars 1635
 (C) First Final Flow 229 Safety Joint 1803
 (D) Initial Shut-In 1326 Circ Sub 1945
 (E) Second Initial Flow 234 Hourly Standby 2358
 (F) Second Final Flow 435 Mileage 66.5 49.50
 (G) Final Shut-In 1327 Sampler
 (H) Final Hydrostatic 1830 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 10
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 45

Sub Total 1099.50

Comments
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1099.50
 MP/DST Disc't

Approved By _____ Our Representative Cory P. [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.



Andrews #22-1
 950' FNL & 2050' FWL Sec 22-22S-13W
 Stafford Co., Kansas

1890' GL
 1895' KB

Report: Complete in Arb

06-02-16 MI Ellinwood Roustabout dozer. MIRU APS DD. G&S Roustabouts MI 2-7/8" tbg from yard. RU Pioneer Energy Svc, ran CBL w/ excellent cement bond throughout. PBTD 3861' & TOC @ 2788'. Swab csg down to 1800', perf Arb 3832-35'(3') w/ 3-1/8" Expendable gun 6 spf. Let set 30 min, 1st pull FL @ 1600', 200'(4.7 bbl) fluid entry, water & made 200' pull from 1800'. Let set 30 min, 2nd pull FL @ 1600', 200'(4.7 bbl) fluid entry, water & made 100' pull from 1700'. Let set 30 min, 3rd pull FL @ 1600', 100'(2.3 bbl) fluid entry, good show oil & made 100' pull from 1700'. Let set 30 min, 4th pull FL @ 1600', 100'(2.3 bbl) fluid entry, oil covered top of bucket, low gravity oil but gassy & made 100' pull from 1700'. Let set 30 min, 5th pull FL @ 1600', 100'(2.3 bbl) fluid entry, 5% oil, oil cleaning up & made 100' pull from 1700'. Let set 30 min, 6th FL @ 1600', 100'(2.3 bbl) fluid entry, 1% oil(lower oil % may be from lowering swab rate from 9.4 b/h to 4.6 b/h) & made 100' pull from 1700'. Let set 30 min, 7th FL @ 1600', 100'(2.3 bbl) fluid entry, 1% oil, made 100' pull from 1700'. Recovered 20.9 bbl fluid of 48 bbl of fluid left in hole before perf. SDFN

06-03-16 FL @ 850', 2980' FIH w/ 40' oil(1%). TIH w/ Tool Tech 5 1/2" pkr & tbg, set pkr @ 3816' & swab test Arb 3832-35', FL @ 700', as follows:

Time	bbl	cum	%	comments
1 st hr	12.76	33.66	tr	FL 1375', 4-500' pulls
2 nd hr	11.31	44.97	3	FL 1825', 4-500' pulls

3 rd hr	12.76	57.73	8	FL 2050', 4-500' pulls
4 th hr	24.36	82.09	11	FL 3115', 4-1000' pulls
5 th hr	19.72	101.81	11	FL 3025', 4- pulls
6 th hr	18.56	120.37	11	FL 3050', 4-pulls

SDFN & Weekend

06-06-16 FL @ 800', 3030' FIH w/ 50' oil(1.5%). Release pkr, TOH w/ tbg & pkr. RU Pioneer, set CIBP @ 3827' then swab csg down to 1800'. Perf Arbuckle 3804-07'(3') w/ 3-1/8" Expendable gun 6 spf. TIH w/ pkr & tbg, set pkr @ 3784', test Arb 3804-07' natural, FL @ 1500', swab as follows:

Andrews #22-1

1 st hr	9.86	9.86	tr	FL 2435', 3-500' pulls
2 nd hr	5.80	15.66	22	FL 3575', 3-pulls, start 2-pulls/hr
3 rd hr	1.16	17.82	23	FL 3600', 2-pulls, changed to light load cups
4 th hr	1.76	19.58	23	FL 3575', 2-pulls

SDFN

06-07-16 FL @ 1650', 2130' FIH w/ 300' oil(14%). TOH w/ tbg & pkr, RU Pioneer, load csg w/ fluid then shot gas gun 3804-07'. TIH w/ pkr & tbg, set pkr @3784', FL @ 1750', swab test as follows:

1 st hr	9.70	9.70	tr	FL 2750', 3-500' pulls
2 nd hr	4.64	14.34	8	FL 3625', 3-pulls
3 rd hr	1.16	15.50	24	FL 3675', 3-pulls

SDFN

06-08-16 FL 1850, 1930' FIH w/ 250' oil(12%). RU Kansas Acid, acidize Arb 3804-07' w/ 150 gal 7 1/2% MCA. Balanced acid on over perms then let hydrostatic soak acid out into formation. Total load – 28 bbl. Let set 1 hr, FL @ 450', swab test as follows:

1 st hr	11.31	11.31	tr	FL 1150', 4-500' pulls
2 nd hr	13.92	25.23	10	FL 1750', 4-500' pulls
3 rd hr	13.05	38.28	16	FL 1975', 4-500' pulls
4 th hr	12.18	50.46	21	FL 2000', 4-500' pulls
5 th hr	24.07	74.53	20	FL 2850', 4-1000' pulls
6 th hr	18.56	93.09	20	FL 3000', 4-pulls
7 th hr	19.14	112.23	17	FL 3000', 4-pulls

SDFN

06-09-16 FL @ 1000', 2780' FIH w/ 150' oil(5%). TOH w/ tbg & pkr, TIH w/ tbg as follows:

			Set @
2-7/8" 8rd EUE TP MA	1jt	15.20	3820.39'
2 1/2"x 2 1/4"x 10'x12'x15' CID	3jts	16.20'	3805.19'
2-7/8" 8rd EUE tbg	1jt	32.55'	3788.99'
5 1/2"x 2-7/8" anchor catcher	1jt	2.72'	3756.44'
2-7/8" 8rd EUE tbg	115jts	3732.72'	3753.72'
2-7/8" 8rd EUE tbg subs	3jts	18.00'	21.00'
Below Zero		3.00'	

Landed tbg 7' off bottom w/ 14" stretch in anchor catcher. TIH w/ rods as follows:

Andrews #22-1

2 1/4"x 4' metal TV
 7 - 1 1/2"x 25' sinker bars
 75 - 3/4"x 25' sucker rods Norris 90
 69 - 7/8"x 25' sucker rods Norris 90
 7/8"x 8' pony rods
 1 1/4"x 22' PR w/ 10' PRL

Longstroke well w/ good pump action, space out pump, clamp off. Will RD in morning & had dozer pull rig out.