

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
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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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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:	
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DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

100 S Main
Plainville, KS 67663

ATTN: Marc Downing

Radium East #4-1

4-22S-14W Stafford,KS

Start Date: 2017.09.11 @ 22:45:50

End Date: 2017.09.12 @ 08:10:50

Job Ticket #: 57826 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.09.13 @ 10:41:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

StrataKan Exploration

4-22S-14W Stafford,KS

100 S Main
Plainville, KS 67663

Radium East #4-1

Job Ticket: 57826

DST#: 1

ATTN: Marc Downing

Test Start: 2017.09.11 @ 22:45:50

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:47:35
 Time Test Ended: 08:10:50
 Interval: **3681.00 ft (KB) To 3787.00 ft (KB) (TVD)**
 Total Depth: 3787.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1950.00 ft (KB)
 1943.00 ft (CF)
 KB to GR/CF: 7.00 ft

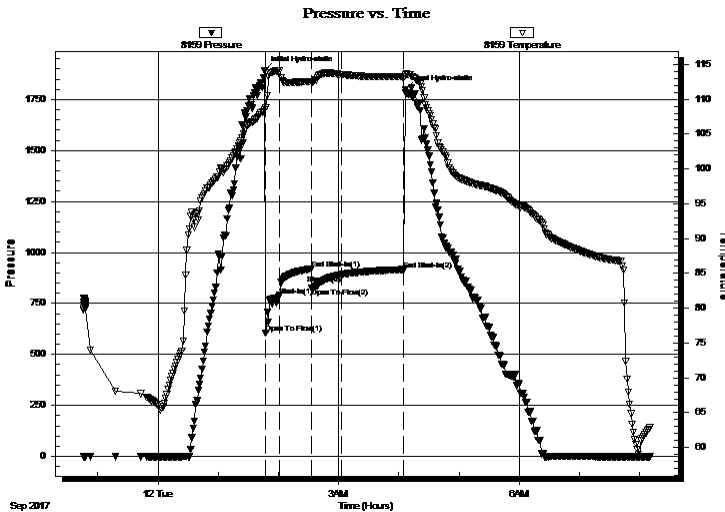
Serial #: 8159

Inside

Press@RunDepth: 890.81 psig @ 3682.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.09.11 End Date: 2017.09.12 Last Calib.: 2017.09.12
 Start Time: 22:45:51 End Time: 08:10:50 Time On Btm: 2017.09.12 @ 01:46:20
 Time Off Btm: 2017.09.12 @ 04:06:50

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB in 30 seconds, Died Off to 8 inches
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.70	108.57	Initial Hydro-static
2	606.18	108.78	Open To Flow (1)
15	788.76	114.07	Shut-In(1)
47	919.46	112.51	End Shut-In(1)
47	825.01	112.46	Open To Flow (2)
77	890.81	113.56	Shut-In(2)
139	916.66	113.20	End Shut-In(2)
141	1798.81	113.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1116.00	GOMCW 20%G 5%M 5%O 70%W	14.56
310.00	GMWCO 40%G 14%M 16%W 30%O	4.35
372.00	GMWCO 20%G 12%M 12%W 56%O	5.22
226.00	SOCM 5%O 95%M	3.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

4-22S-14W Stafford,KS

100 S Main
Plainville, KS 67663

Radium East #4-1

Job Ticket: 57826

DST#: 1

ATTN: Marc Downing

Test Start: 2017.09.11 @ 22:45:50

Tool Information

Drill Pipe:	Length: 3547.00 ft	Diameter: 3.80 inches	Volume: 49.76 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.35 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3681.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	125.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3667.00	
Hydraulic tool	5.00			3672.00	
Packer	5.00			3677.00	19.00 Bottom Of Top Packer
Packer	4.00			3681.00	
Stubb	1.00			3682.00	
Recorder	0.00	8159	Inside	3682.00	
Recorder	0.00	6806	Outside	3682.00	
Perforations	6.00			3688.00	
Change Over Sub	1.00			3689.00	
Drill Pipe	94.00			3783.00	
Change Over Sub	1.00			3784.00	
Bullnose	3.00			3787.00	106.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

4-22S-14W Stafford,KS

100 S Main
Plainville, KS 67663

Radium East #4-1

Job Ticket: 57826

DST#: 1

ATTN: Marc Downing

Test Start: 2017.09.11 @ 22:45:50

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:

53000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1116.00	GOMCW 20%G 5%M 5%O 70%W	14.561
310.00	GMWCO 40%G 14%M 16%W 30%O	4.348
372.00	GMWCO 20%G 12%M 12%W 56%O	5.218
226.00	SOCM 5%O 95%M	3.170

Total Length: 2024.00 ft Total Volume: 27.297 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

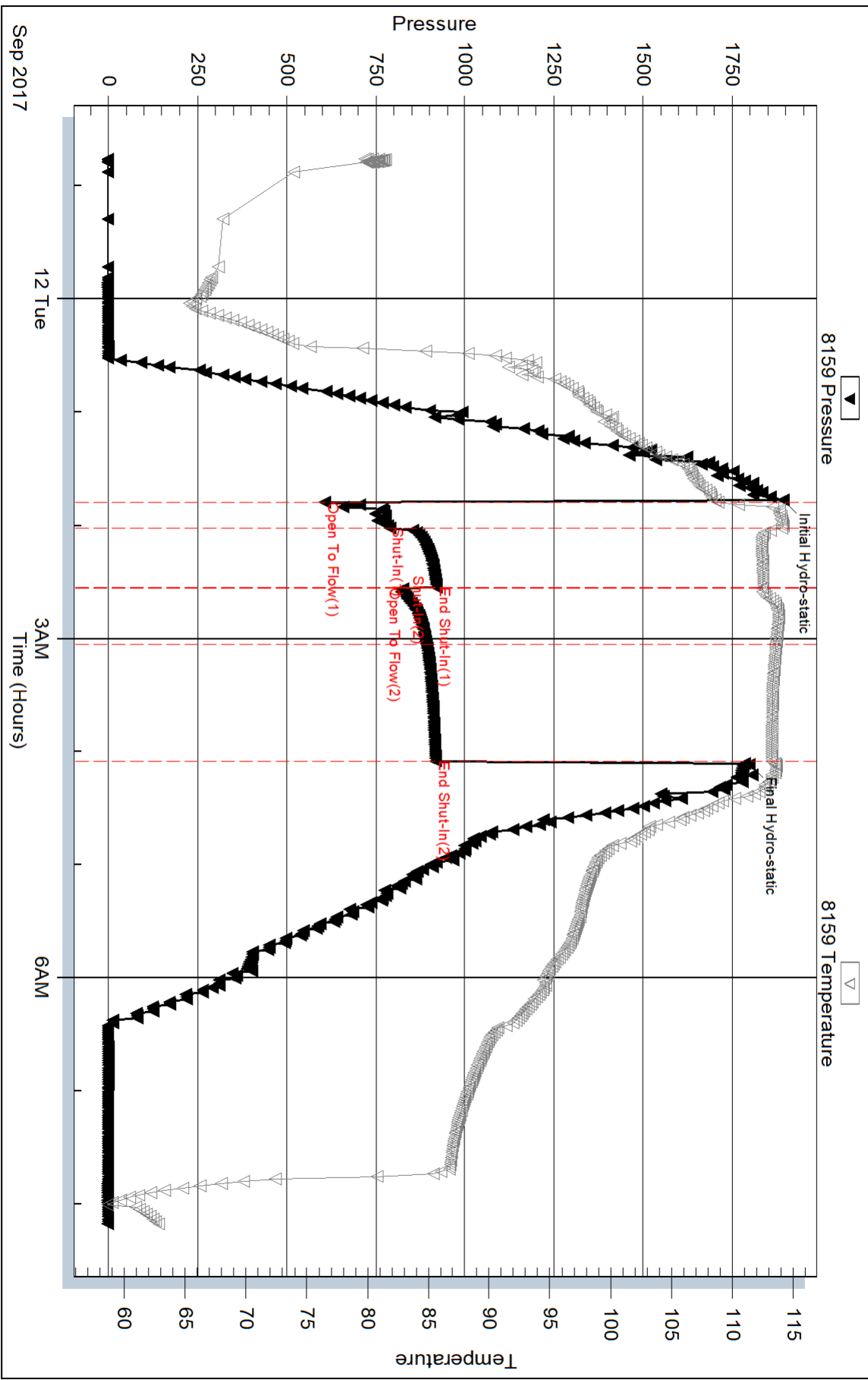
Laboratory Name:

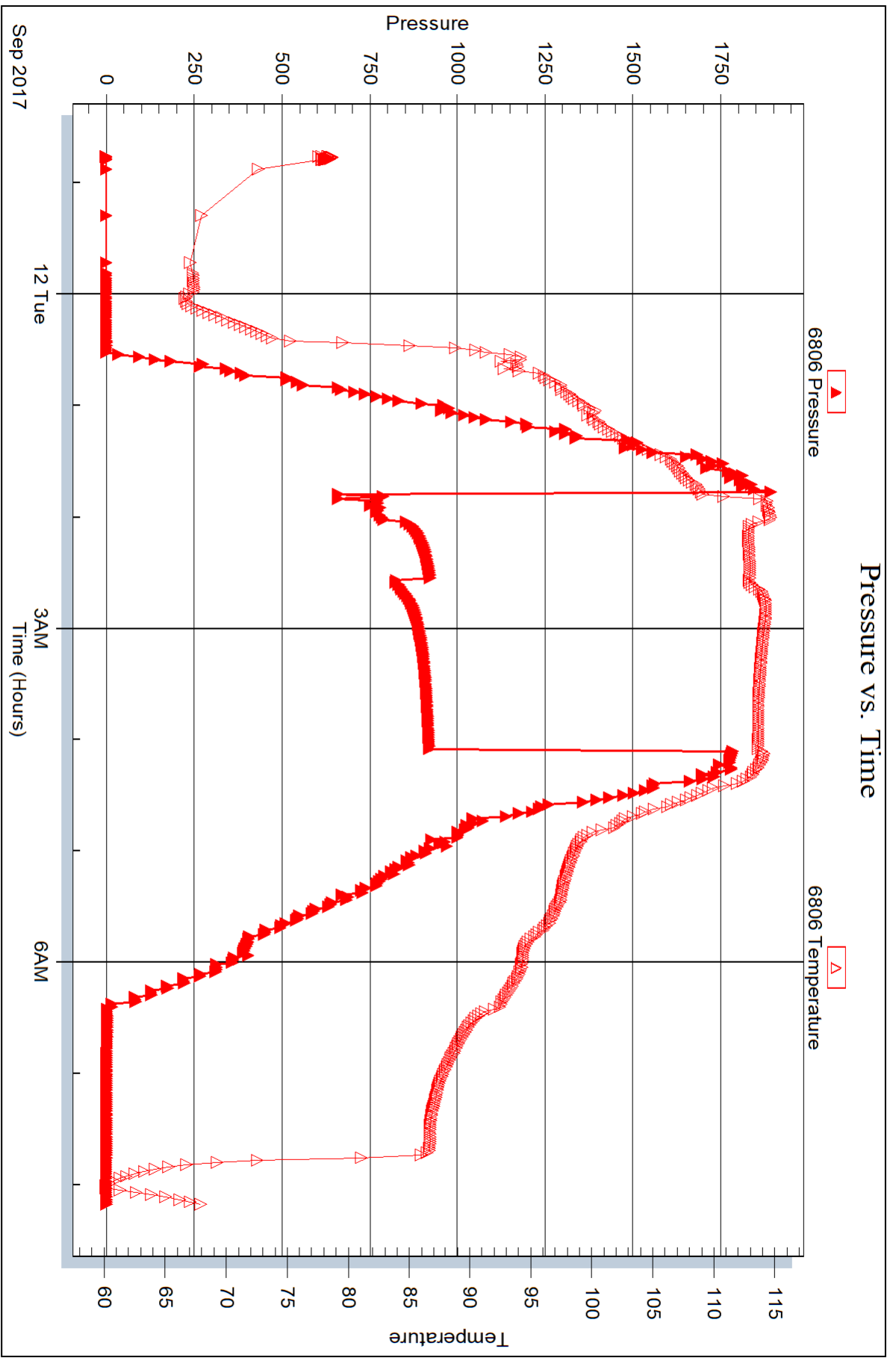
Laboratory Location:

Recovery Comments: H2S Peaked @ 124 ppm

RW was .13 @ 80 degrees

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

100 S Main
Plainville, KS 67663

ATTN: Marc Downing

Radium East #4-1

4-22S-14W Stafford,KS

Start Date: 2017.09.12 @ 14:58:51

End Date: 2017.09.12 @ 19:21:51

Job Ticket #: 57827 DST #: 2

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

Printed: 2017.09.13 @ 10:37:42



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

StrataKan Exploration

4-22S-14W Stafford,KS

100 S Main
Plainville, KS 67663

Radium East #4-1

Job Ticket: 57827

DST#: 2

ATTN: Marc Downing

Test Start: 2017.09.12 @ 14:58:51

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:35:21

Time Test Ended: 19:21:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3778.00 ft (KB) To 3810.00 ft (KB) (TVD)

Reference Elevations: 1950.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

1943.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8159 Inside

Press@RunDepth: 17.91 psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.12 End Date: 2017.09.12

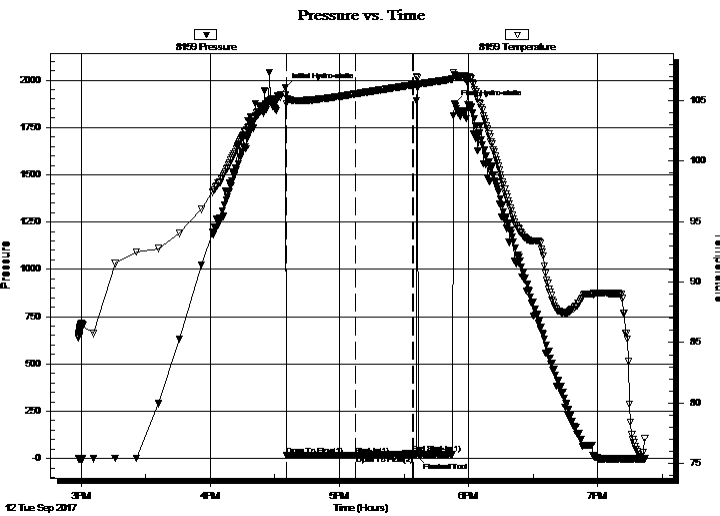
Last Calib.: 2017.09.12

Start Time: 14:58:52 End Time: 19:21:51

Time On Btm: 2017.09.12 @ 16:35:06

Time Off Btm: 2017.09.12 @ 17:53:21

TEST COMMENT: IF: Weak Surface Blow , Dead @ 20 minutes
IS: No Blow Back
FF: No Blow , Flushed Tool, No Blow , Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.87	105.50	Initial Hydro-static
1	16.38	104.71	Open To Flow (1)
33	17.91	105.54	Shut-In(1)
59	24.96	106.27	End Shut-In(1)
60	16.37	106.27	Open To Flow (2)
61	16.89	106.31	Flushed Tool
79	1873.10	107.09	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

4-22S-14W Stafford,KS

100 S Main
Plainville, KS 67663

Radium East #4-1

Job Ticket: 57827

DST#: 2

ATTN: Marc Downing

Test Start: 2017.09.12 @ 14:58:51

Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.80 inches	Volume: 51.12 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.71 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3778.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3764.00	
Hydraulic tool	5.00			3769.00	
Packer	5.00			3774.00	19.00 Bottom Of Top Packer
Packer	4.00			3778.00	
Stubb	1.00			3779.00	
Recorder	0.00	8159	Inside	3779.00	
Recorder	0.00	6806	Outside	3779.00	
Perforations	28.00			3807.00	
Bullnose	3.00			3810.00	32.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

4-22S-14W Stafford,KS

100 S Main
Plainville, KS 67663

Radium East #4-1

Job Ticket: 57827

DST#: 2

ATTN: Marc Downing

Test Start: 2017.09.12 @ 14:58:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

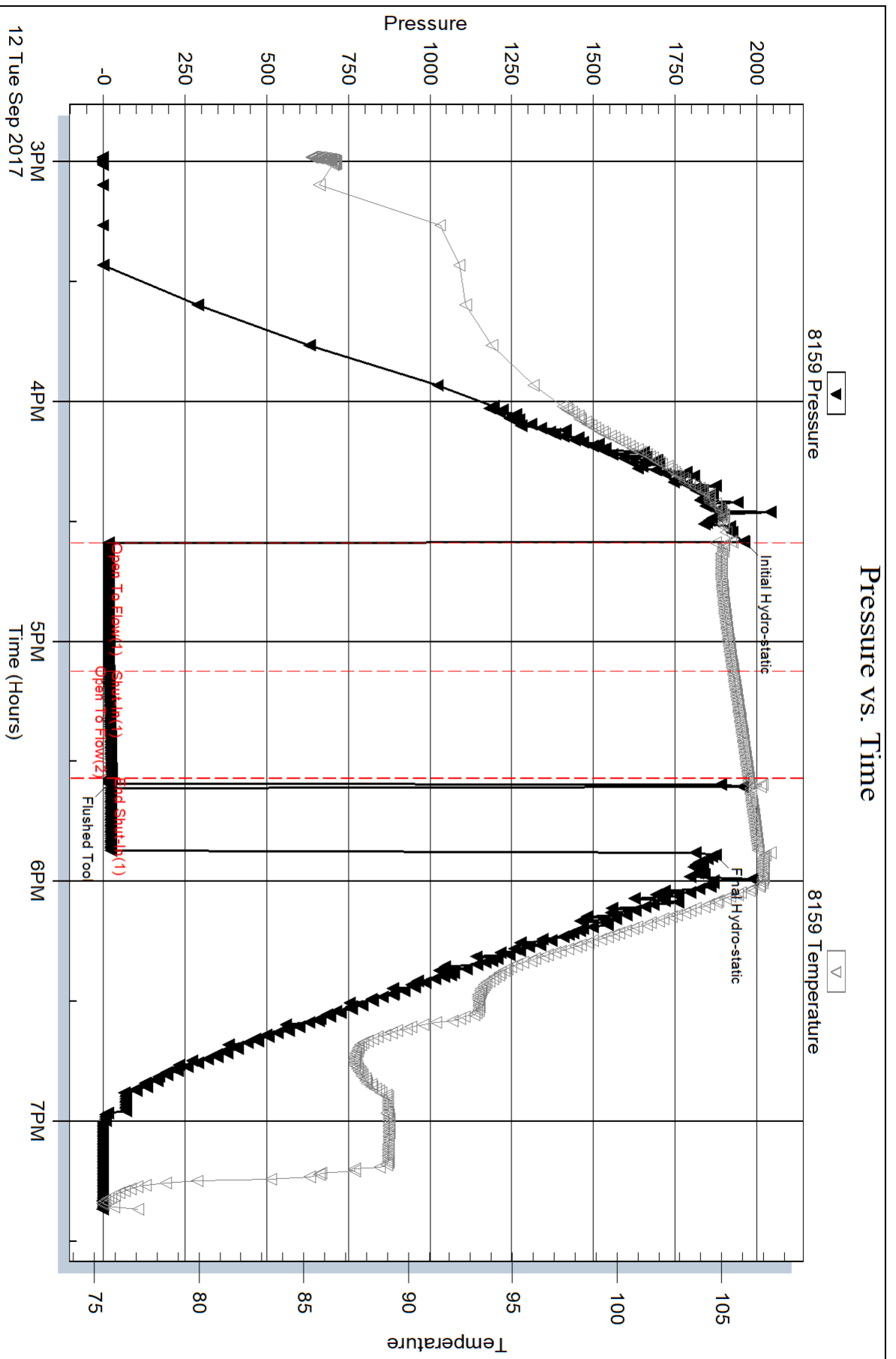
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

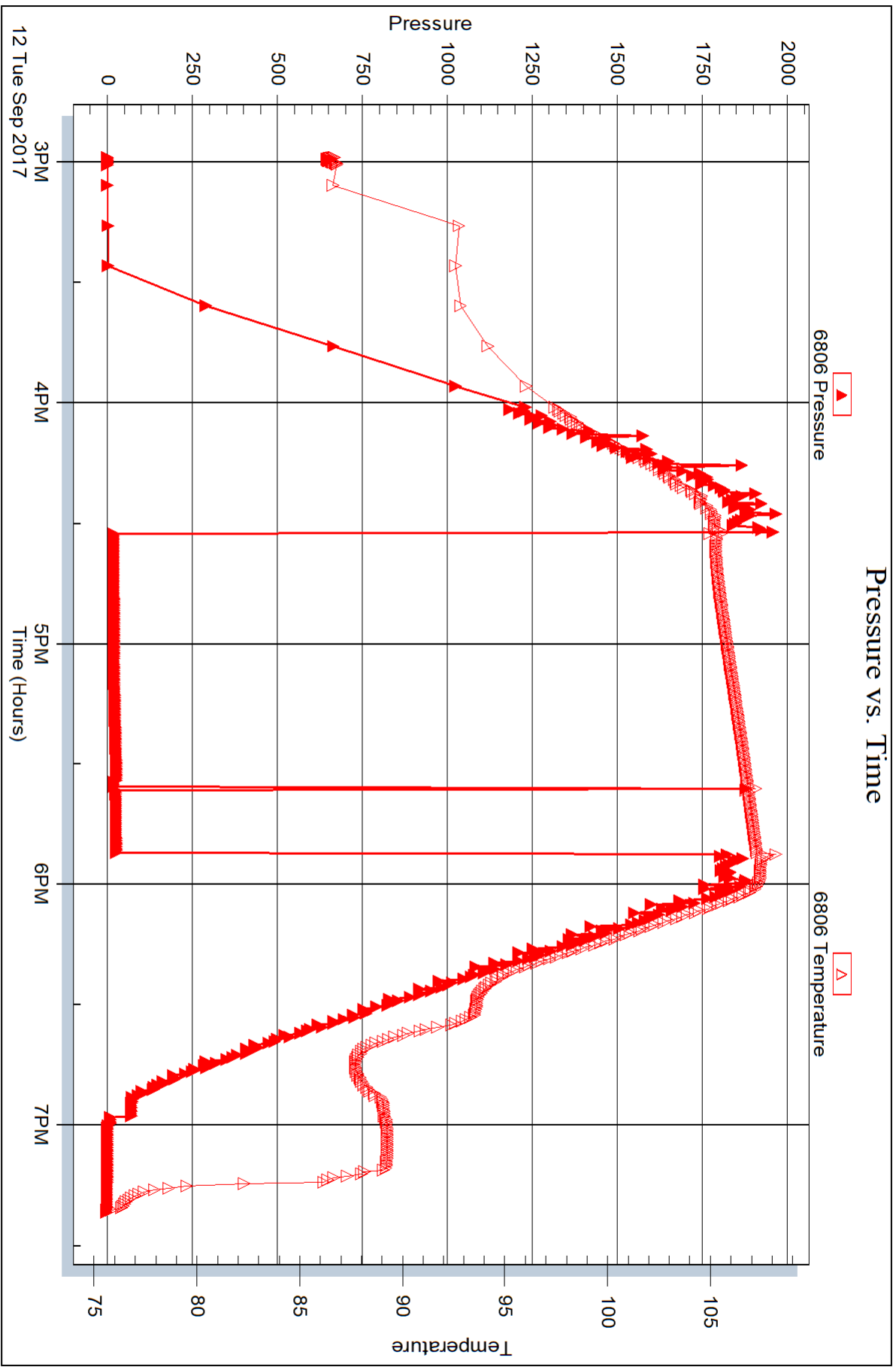


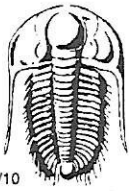
Serial #: 6806

Outside StrataKan Exploration

Radium East #4-1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57826

Well Name & No. Radium East 4-1 Test No. 1 Date 09/11/17
 Company Siratakan Exploration Elevation 1950 KB 1943 GL
 Address 100 S. Main Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig WW 4
 Location: Sec. 4 Twp. 22S Rge. 14W Co. Stafford State KS

Interval Tested 3681 - 3787 Zone Tested Viola
 Anchor Length 106 Drill Pipe Run 3547 Mud Wt. 9.4
 Top Packer Depth 3676 Drill Collars Run 120 Vis 53
 Bottom Packer Depth 3681 Wt. Pipe Run 0 WL 8
 Total Depth 3787 Chlorides 5000 ppm System LCM 1'12

Blow Description TF: strong Blow BOB in 30 seconds
ISF: NO Blow Back
FF: strong Blow, BOB in 30 seconds Died off to 8 inches
FSF: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>226</u>	<u>50CM</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>5</u>
<u>372</u>	<u>GMWCO</u>	<u>20</u>	<u>56</u>	<u>12</u>	<u>12</u>
<u>310</u>	<u>GMWCO</u>	<u>40</u>	<u>30</u>	<u>16</u>	<u>14</u>
<u>1116</u>	<u>60MCW</u>	<u>20</u>	<u>5</u>	<u>70</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud

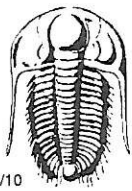
Rec Total 2024 BHT 113 Gravity NIL API RW .13 @ 80 ° F Chlorides 53000 ppm

(A) Initial Hydrostatic 1893 Test 1050 T-On Location 21:15
 (B) First Initial Flow 606 Jars _____ T-Started 22:45
 (C) First Final Flow 789 Safety Joint _____ T-Open 01:47
 (D) Initial Shut-In 919 Circ Sub _____ T-Pulled 04:05
 (E) Second Initial Flow 825 Hourly Standby _____ T-Out 08:10
 (F) Second Final Flow 890 Mileage (90) 67.50 Comments H2S peaked @
 (G) Final Shut-In 917 Sampler _____ 124 ppm
 (H) Final Hydrostatic 1799 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 15 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1117.50
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1117.50

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. 57827

Well Name & No. Radium East 4-1 Test No. 2 Date 09/12/17
 Company Siratakan Exploration Elevation 1950 KB 1943 GL
 Address 100 S. Main Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig WW4
 Location: Sec. 4 Twp. 22S Rge. 14W Co. Stafford State KS

Interval Tested 3778 - 3810 Zone Tested Simpson
 Anchor Length ~~32~~ Drill Pipe Run 3644 Mud Wt. 9.4
 Top Packer Depth 3773 Drill Collars Run 120 Vis 56
 Bottom Packer Depth 3778 Wt. Pipe Run 0 WL 8.8
 Total Depth 3810 Chlorides 4800 ppm System LCM 1

Blow Description IF: weak surface blow, dead @ 20 minutes
ISI: NO Blow Back
FF: NO Blow, Flushed Tool, NO Blow, Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 107 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 1961 Test 1050 T-On Location 14:30
 (B) First Initial Flow 16 Jars _____ T-Started 14:58
 (C) First Final Flow 18 Safety Joint _____ T-Open 16:35
 (D) Initial Shut-In 25 Circ Sub _____ T-Pulled 17:35
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 19:21
 (F) Second Final Flow N/A Mileage (90) 67.50 Comments _____
 (G) Final Shut-In N/A Sampler _____
 (H) Final Hydrostatic 1873 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1117.50 Sub Total 0
 Total 1117.50 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 405

Date	9-13-17	Sec.	4	Twp.	22	Range	14	County	Stafford	State	Ks	On Location		Finish	11:00PM
								Location 281 + K-19 - 7W to 70rd, 1/2N, E/S							

Lease	Radium East	Well No.	4-1	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			Charge To	Stacatan Exploration
Type Job	Longstring	T.D.	3930'	Street	
Hole Size	7 7/8"	Depth	3878.27'	City	
Csg.	5 1/2" New 15' 6"	Depth		State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	190 Q Pro-C 10% Salt 5%
Cement Left in Csg.	44.96'	Shoe Joint	44.96'	Common	190 Q pro-c
Meas Line		Displace	9 1/4 BLS	Gilsonite - 500 gal mud Clear 48,	110 BLS KCL

EQUIPMENT

Pumptrk	16	No.		Cementor Helper	Rick	Poz. Mix	
Bulktrk	14	No.		Driver	Tony	Gel.	
Bulktrk	p.u.	No.		Driver	Travis	Calcium	KCL 11 gal

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	17
Mouse Hole		Flowseal	
Centralizers	1-7	Kol-Seal	800 #
Baskets	pipe on bottom break Circulation	Mud CLR 48	500 gal
D/V or Port Collar	pump 500 gal mud clear 48	CFL-117 or CD110 CAF 38	
	pump 20 BLS KCL spacer. plug	Sand	
	Rathole w/ 30 ex. Hook to 53'	Handling	215
	Casing + mix 160 sy Cement, shut	Mileage	
	down Wash pump + lines.	FLOAT EQUIPMENT	
	Released + Displaced plug	Guide Shoe	
	w/ 91 1/4 BLS of KCL water.	Centralizer	7
	Released + held.	Baskets	
	Lift pressure 700 #	AFU Inserts	
	Land plug to 1500 #	Float Shoe	1
		Latch Down	1

Pumptrk Charge	prod string	Tax	
Mileage	23	Discount	
		Total Charge	

X Signature *Randy [Signature]*

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, ~~CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.~~

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WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 401

Date	9-8-17	Sec.	4	Twp.	22	Range	14	County	Stafford	State	Ks	On Location		Finish	6:30 PM
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Lease **Radium East** Location **281 + K-A Jct - 7W to 70 rd**

Well No.	4-1	Owner	1/2 N, ELS
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Contractor	WW #4	To	Quality Oilwell Cementing, Inc.
Type Job	Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	

Hole Size	12 1/4"	T.D.	875'	Charge To	Stratagem Exploration
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Csg.	8 3/8"	Depth	871"	Street	
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Tbg. Size		Depth		City		State	
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Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg.	27'	Shoe Joint	27'	Cement Amount Ordered	450 sx ⁸⁰ / ₂₀
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Meas Line		Displace	53 3/4		39cc 22 Gel 1/2 H Flo-seal
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EQUIPMENT

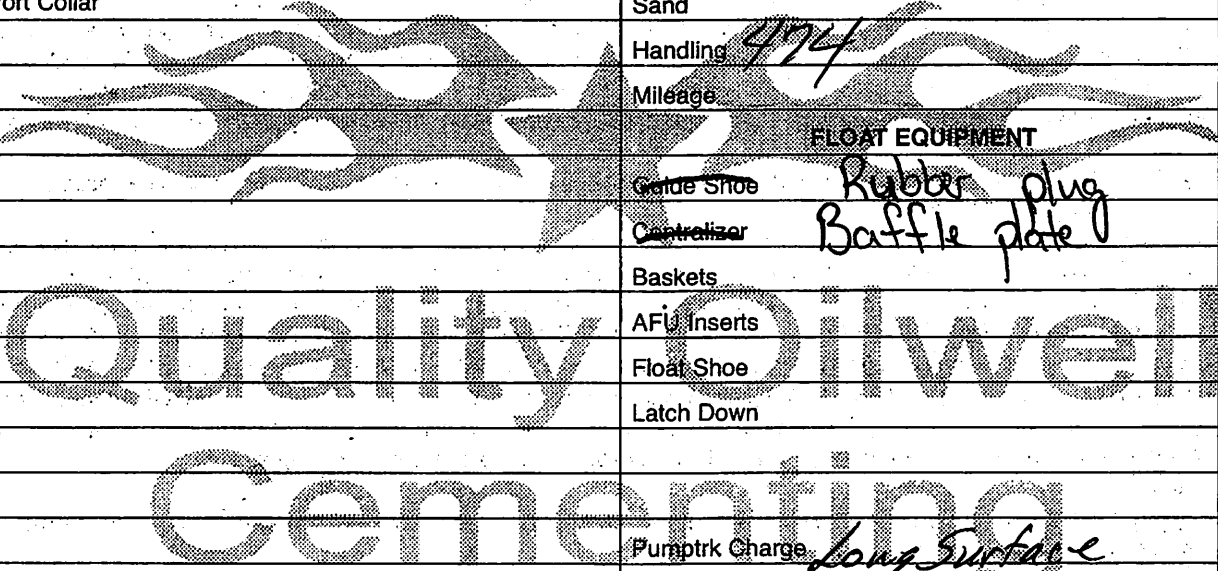
Pumptrk	16	No.		Cementer	Glenn	Common	360
				Helper		Poz. Mix	90
Bulktrk	19	No.		Driver	Doug	Gel.	8
				Driver		Calcium	16
Bulktrk	pu.	No.		Driver	Pick		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	225
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	

FLOAT EQUIPMENT

Guide Shoe	Rubber plug
Centralizer	Baffle plate
Baskets	
AFI Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	long surface
Mileage	23

X Signature <i>Walter Brown</i>	Tax	
	Discount	
	Total Charge	

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

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

Sam Brownback, Governor

January 11, 2018

Justin R. Prater
StrataKan Exploration, LLC
100 S MAIN
PLAINVILLE, KS 67663

Re: ACO-1
API 15-185-23996-00-00
RADIUM EAST 4-1
NW/4 Sec.04-22S-14W
Stafford County, Kansas

Dear Justin R. Prater :

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

The above referenced well was spudded on 9/6/2017 and the ACO-1 was received on January 11, 2018 (not within the 120 days timely requirement).

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

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

Sincerely,

Production Department