

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
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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)</i> <i>(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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Form	ACO1 - Well Completion
Operator	Arcadian Resources, LLC
Well Name	TINLEY 1-24
Doc ID	1466490

Tops

Name	Top	Datum
Anhydrite	2156	+504
Base/Anhydrite	2189	+470
Howard	3271	-612
Topeka	3311	-652
Oread	3356	-697
Heebner	3479	-820
Toronto	3511	-852
Lansing	3520	-861
Base/KC	N.L.	N.L.
Marmaton	N.L.	N.L.
Ft. Scott	N.L.	N.L.
Cherokee Shale	N.L.	N.L.
Basal Penn SD	N.L.	N.L.
Granite Wash	N.L.	N.L.
Total Depth	N.L.	N.L.







# Schippers Oilfield Services LLC

1255 E HWY 24  
Hoxie, KS 67740

# Invoice

Phone # 785-675-8974      sosllc@ruraltel.net  
Fax # 785-675-9938

Date 2/11/2019  
Invoice # 652

Bill To
ARCADIAN RESOURCE, LLC 1302 OLIVE STREET CONCORDIA, KS 66901

Ship To

P.O. #      Tinley  
Terms      Net 30

Ship Date      2/11/2019  
Due Date      3/13/2019  
Other

Item	Description	Qty	Price	Amount
Cement	Common	180	18.00	3,240.00T
Gel		4	22.00	88.00T
chloride	calcium chloride	9	52.00	468.00T
Handling of mater...	per sack	193	2.10	405.30
MILEAGE		58	15.44	895.52T
PUMP TRUCK CHA...	TRI-PLEX PUMP CHARGE		1,150.00	1,150.00
Bulk truck	MILEAGE	58	6.00	348.00
Light vehicle mile...	One way to Location	58	2.00	116.00

*Surface*

*10% Discount  
if paid in 20 days*

Schippers Oilfield Services LLC

<b>Subtotal</b>	\$6,710.82
<b>Sales Tax (8.0%)</b>	\$375.32
<b>Total</b>	\$7,086.14
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$7,086.14

*total 6378.14  
w/ discount*



REMIT TO  
 RR 1 BOX 90 D  
 HOXIE, KS 67740

**SCHIPPERS OIL FIELD SERVICE L.L.C.**

NO 000652

DATE <i>7/7/15</i>	SEC. <i>24</i>	RANGE/TWP. <i>2-27</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Tinker</i>			WELL # <i>1-2-1</i>			
					COUNTY <i>DC</i>	STATE <i>KS</i>

CONTRACTOR		OWNER <i>Accordia</i>		
TYPE OF JOB				
HOLE SIZE <i>13 3/8</i>	T.D. <i>264</i>	CEMENT		
CASING SIZE <i>8 5/8</i>	DEPTH	AMOUNT ORDERED		
TUBING SIZE	DEPTH			
DRILL PIPE <i>4 1/2</i>	DEPTH			
TOOL	DEPTH			
PRES. MAX	MINIMUM	COMMON	<i>180</i>	@ <i>18"</i>
DISPLACEMENT <i>15.516</i>	SHOE JOINT	POZMIX		@
CEMENT LEFT IN CSG.		GEL	<i>4</i>	@ <i>22"</i>
PERFS		CHLORIDE	<i>9</i>	@ <i>52"</i>
		ASC		@
EQUIPMENT				@
				@
PUMP TRUCK				@
#				@
BULK TRUCK				@
#				@
BULK TRUCK				@
#				@
		HANDLING	<i>193</i>	@ <i>2"</i> <i>405"</i>
		MILEAGE	<i>58</i>	@ <i>15.44</i> <i>895.52</i>
		TOTAL		

REMARKS	SERVICE <i>Surf</i>		
<i>Plug Down @ 6:15 PM</i>	DEPT OF JOB	@	
	PUMP TRUCK CHARGE	@	<i>1150"</i>
	EXTRA FOOTAGE	@	
<i>Line Co. to Pit</i>	MILEAGE	<i>58</i>	@ <i>6.00</i> <i>348"</i>
	MANIFOLD	@	
	<i>Light Valve</i>	<i>58</i>	@ <i>2"</i> <i>116</i>
	TOTAL		

CHARGES TO: <i>Accordia Revenue 116</i>	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Services L.L.C.  
 You are hereby requested to rent cementing equipment and furnish staff 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 "TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL	
TAX	
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

SIGNATURE *Accordia Revenue*

PRINTED NAME





Schippers Oilfield Services LLC

1255 E HWY 24  
Hoxie, KS 67740

# Invoice

Phone # 785-675-8974      sosllc@ruraltel.net  
Fax # 785-675-9938

Date 2/18/2019  
Invoice # 653

Bill To
ARCADIAN RESOURCE, LLC 1302 OLIVE STREET CONCORDIA, KS 66901

Ship To

P.O. #      *Liam T Sinley*  
Terms      Net 30

Ship Date      2/18/2019  
Due Date      2/17/2019  
Other

Item	Description	Qty	Price	Amount
Cement	Common	174	18.00	3,132.00T
Pozmix		116	10.00	1,160.00T
Gel		10	22.00	220.00T
Flo Seal		72.5	2.25	163.13T
Handling of mater...	per sack	300	2.10	630.00
Bulk truck		58	24.00	1,392.00
PUMP TRUCK CHA...	TRI-PLEX PUMP CHARGE		1,850.00	1,850.00
PUMPTRUCK MILE...	ONE WAY TO LOCATION	58	6.00	348.00
Wooden plug	Dry hole plug 85/8	1	60.00	60.00T

*-10% discount  
if Paid 20days*

Subtotal	\$8,955.13
Sales Tax (8.0%)	\$378.81
<b>Total</b>	<b>\$9,333.94</b>
Payments/Credits	\$0.00
<b>Balance Due</b>	<b>\$9,333.94</b>

Schippers Oilfield Services LLC

*total with Discant* 8400.74



REMIT TO  
RR 1 BOX 90 D  
HOXIE, KS 67740

**SCHIPPERS OIL FIELD SERVICE L.L.C.**

NO 000653

DATE <i>2/17/19</i> SEC. <i>24</i>	RANGE/TWP. <i>2-27</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Tixley</i>		WELL# <i>1-24</i>			
		COUNTY <i>DC</i>		STATE <i>KS</i>	

CONTRACTOR <i>Dake 4</i>	OWNER <i>Aracoma</i>				
TYPE OF JOB <i>Rotary Plug</i>					
HOLE SIZE	T.D. <i>3997</i>	CEMENT			
CASING SIZE	DEPTH	AMOUNT ORDERED			
TUBING SIZE	DEPTH				
DRILL PIPE <i>4 1/2</i>	DEPTH				
TOOL	DEPTH				
PRES. MAX	MINIMUM	COMMON	<i>174</i>	@ <i>18"</i>	<i>3,132'</i>
DISPLACEMENT	SHOE JOINT	POZMIX	<i>116</i>	@ <i>10"</i>	<i>1,160'</i>
CEMENT LEFT IN CSG.		GEL	<i>10</i>	@ <i>22"</i>	<i>220'</i>
PERFS		CHLORIDE		@	
		ASC		@	
EQUIPMENT		<i>Fluorol</i>	<i>72"</i>	@ <i>2"</i>	<i>1,632'</i>
				@	
PUMP TRUCK				@	
#				@	
BULK TRUCK				@	
#				@	
BULK TRUCK				@	
#				@	
		HANDLING	<i>300</i>	@ <i>2"</i>	<i>600'</i>
		MILEAGE <i>Bulk</i>	<i>58</i>	@ <i>24"</i>	<i>1,392'</i>
		TOTAL			

*Plugged 4:30 AM  
2/17/19*

*90 Degree*

REMARKS	SERVICE <i>Rotary Plug</i>		
<i>50sx @ 3870</i>	DEPT OF JOB	@	
<i>50sx @ 2180</i>	PUMP TRUCK CHARGE <i>Dug Plug</i>	@	<i>1850'</i>
<i>100sx @ 1460</i>	EXTRA FOOTAGE	@	
<i>50sx @ 320</i>	MILEAGE <i>58"</i>	@ <i>6"</i>	<i>348'</i>
<i>10x Wiper Plug</i>	MANIFOLD	@	
		@	
<i>30 Rest Hole</i>	TOTAL		

CHARGES TO:	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Services L.L.C.

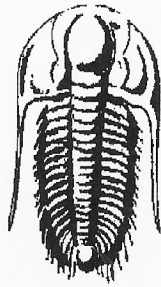
You are hereby requested to rent cementing equipment and furnish staff to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT	
<i>1 Wiper Plug</i>	@ <i>50"</i>
	@
	@
	@
	@
	@
TOTAL	
TAX	
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

SIGNATURE *Hector Torres*

PRINTED NAME





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources, Inc**

1302 Olive St.  
Concordia, KS 66901

ATTN: Pat Deenihan

**Tinley #2-24**

**24-2s-27w Decatur,KS**

Start Date: 2019.02.14 @ 01:56:00

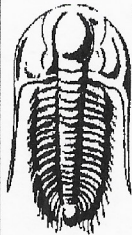
End Date: 2019.02.14 @ 09:01:00

Job Ticket #: 65317                      DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65317

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 01:56:00

## GENERAL INFORMATION:

Formation: **LKC "E - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:30

Time Test Ended: 09:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

**Interval: 3554.00 ft (KB) To 3682.00 ft (KB) (TVD)**

Reference Elevations: 2659.00 ft (KB)

Total Depth: 3682.00 ft (KB) (TVD)

2650.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: 281.24 psig @ 3555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.02.14

End Date: 2019.02.14

Last Calib.: 2019.02.14

Start Time: 01:56:05

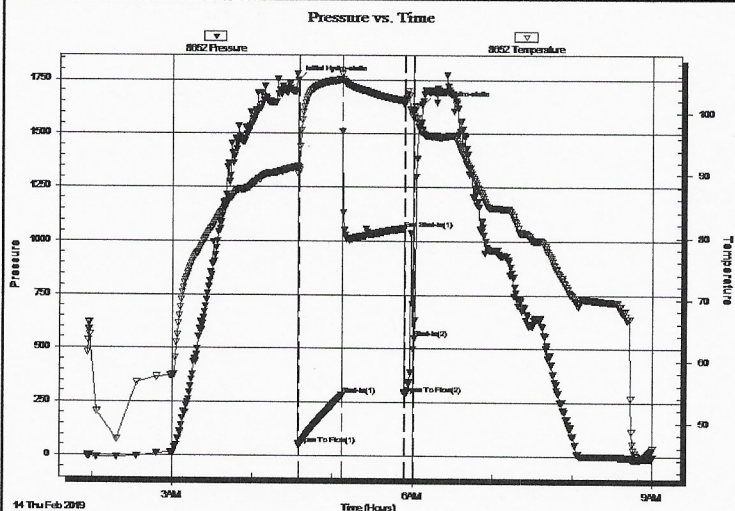
End Time: 09:00:59

Time On Btm: 2019.02.14 @ 04:34:00

Time Off Btm: 2019.02.14 @ 06:07:00

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 4 1/4 min., built to 68"  
45 - IS: Very weak surface blow back  
10 - FF: Blow built to BOB at 4 1/4 min., lost packer seat  
Pulled tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.97	91.41	Initial Hydro-static
1	50.79	90.79	Open To Flow (1)
33	281.24	105.54	Shut-In(1)
80	1058.65	102.06	End Shut-In(1)
80	288.65	101.71	Open To Flow (2)
88	545.74	100.58	Shut-In(2)
93	1632.35	97.50	Final Hydro-static

## Recovery

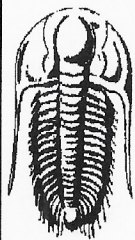
Length (ft)	Description	Volume (bbl)
185.00	Mud 100%	2.60
685.00	WCM 73% <sub>m</sub> , 27% <sub>w</sub>	9.61
435.00	MCW 87% <sub>w</sub> , 13% <sub>m</sub>	6.10
125.00	WM 53% <sub>m</sub> , 47% <sub>w</sub>	1.75
0.00	Oil spots in tool	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65317

**DST#:1**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 01:56:00

### Tool Information

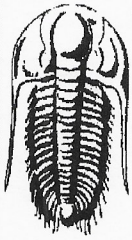
Drill Pipe:	Length: 3534.00 ft	Diameter: 3.80 inches	Volume: 49.57 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 49.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3554.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	128.00 ft			
Tool Length:	161.00 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	
Jars	5.00			3537.00	
EM Tool	4.00			3541.00	
Safety Joint	3.00			3544.00	
Packer	5.00			3549.00	33.00 Bottom Of Top Packer
Packer	5.00			3554.00	
Packer - Shale	0.00			3554.00	
Stubb	1.00			3555.00	
Recorder	0.00	6625	Inside	3555.00	
Recorder	0.00	8652	Outside	3555.00	
Perforations	25.00			3580.00	
Blank Spacing	96.00			3676.00	
Perforations	3.00			3679.00	
Bullnose	3.00			3682.00	128.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>161.00</b>				





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65317

**DST#: 1**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 01:56:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

75000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Mud 100%	2.595
685.00	WCM 73%m, 27%w	9.609
435.00	MCW 87%w, 13%m	6.102
125.00	VM 53%m, 47%w	1.753
0.00	Oil spots in tool	0.000

Total Length: 1430.00 ft

Total Volume: 20.059 bbl

Num Fluid Samples: 0

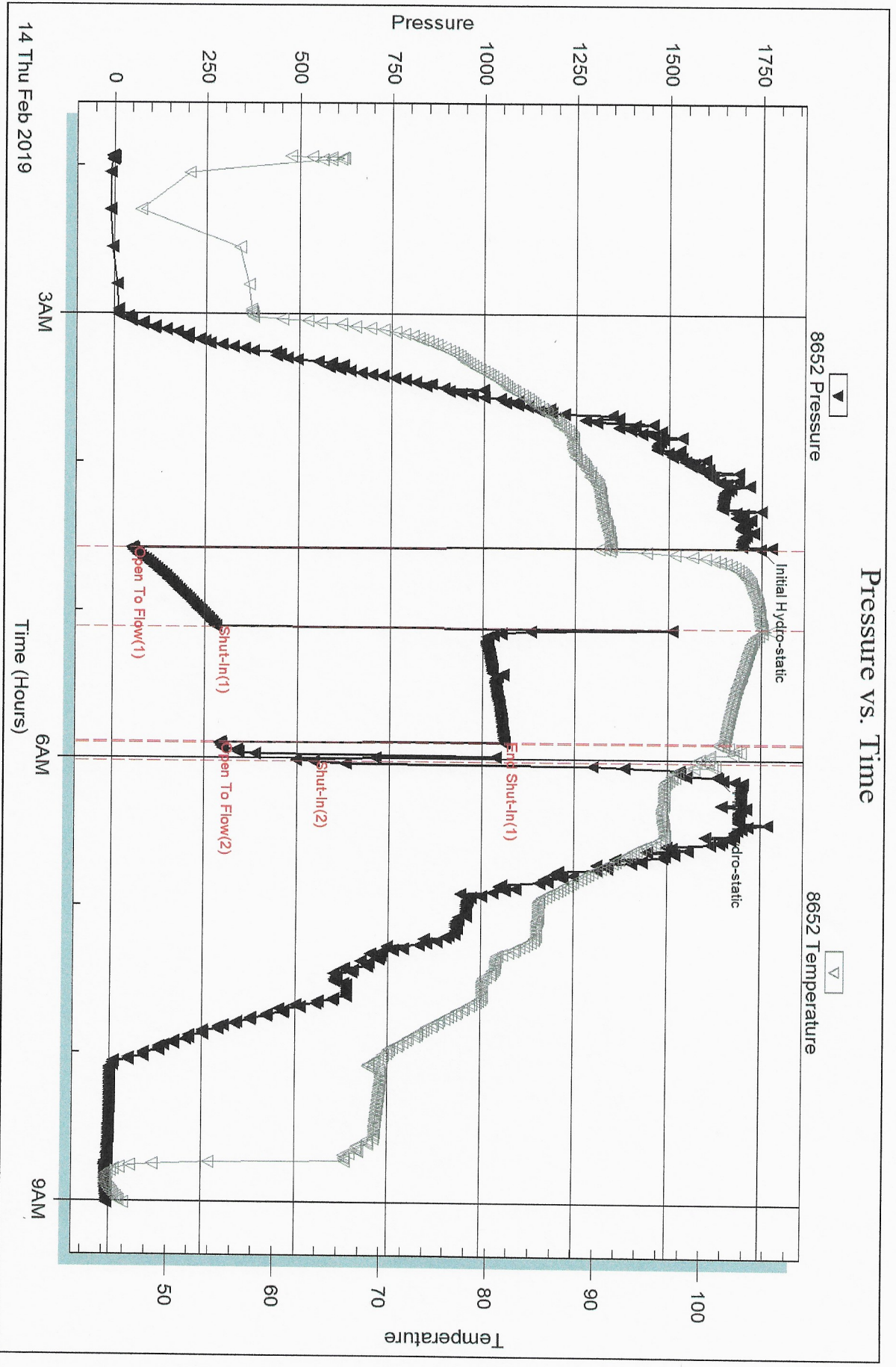
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .163 ohms @ 46.3 deg F Chlorides = 75,000 ppm





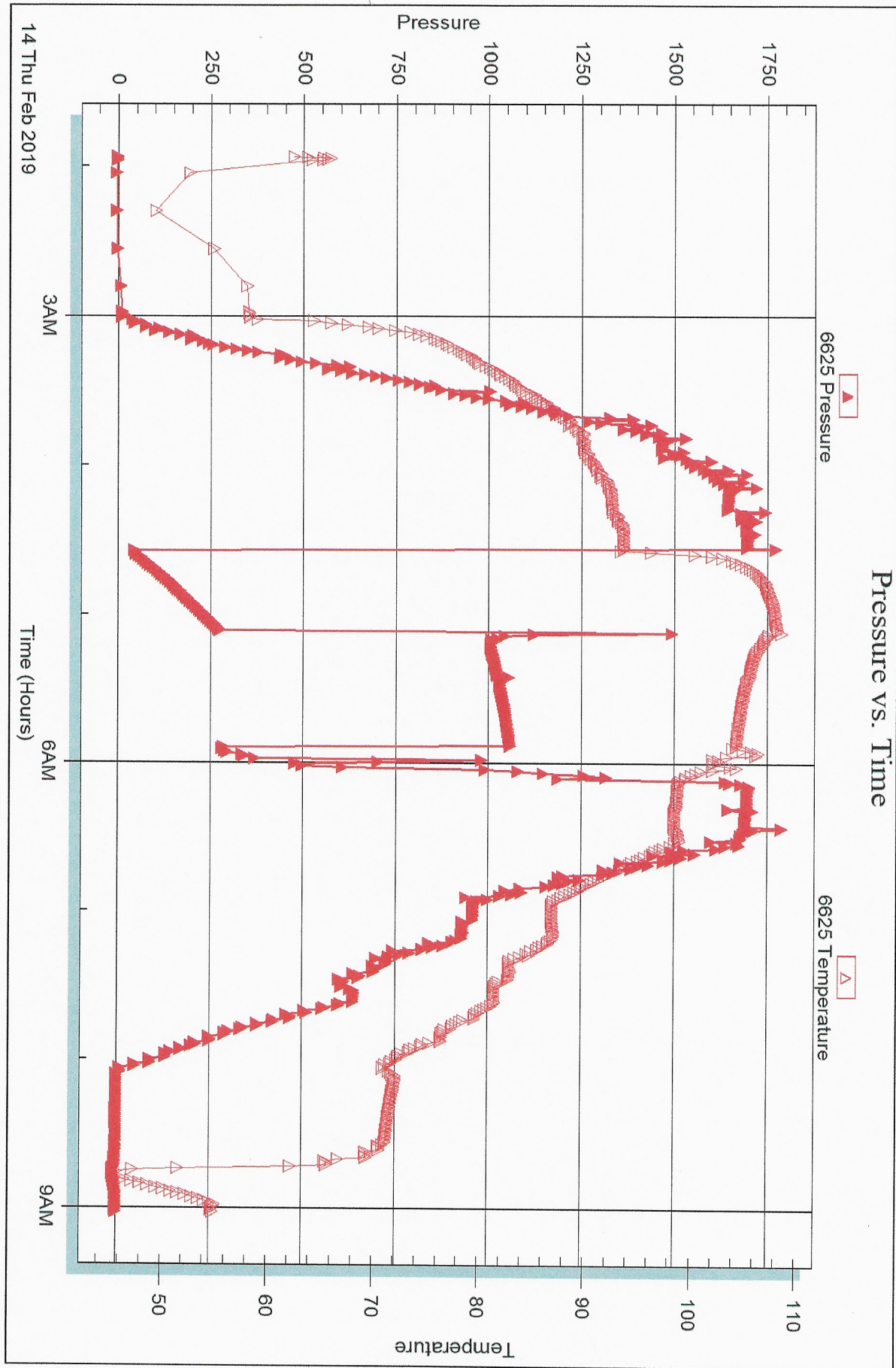
Serial #: 6625

Inside

Arcadian Resources, Inc

Tinley #2-24

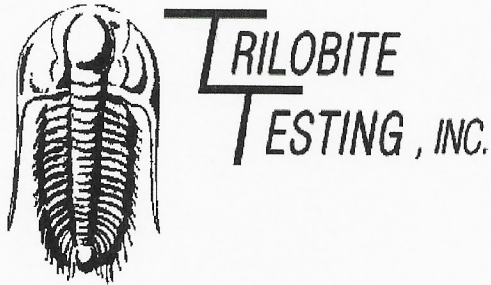
DST Test Number: 1



Trijobite Testing, Inc

Ref. No: 65317

Printed: 2019.02.18 @ 10:46:57



## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources, Inc**

1302 Olive St.  
Concordia, KS 66901

ATTN: Pat Deenihan

### **Tinley #2-24**

#### **24-2s-27w Decatur,KS**

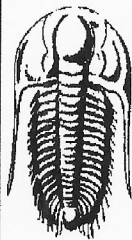
Start Date: 2019.02.14 @ 18:23:00

End Date: 2019.02.15 @ 02:39:45

Job Ticket #: 65318                      DST #: 2

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65318

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 18:23:00

## GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:00

Time Test Ended: 02:39:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3677.00 ft (KB) To 3698.00 ft (KB) (TVD)**

Total Depth: 3698.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2659.00 ft (KB)

2650.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 6625 Inside**

Press@RunDepth: 1158.85 psig @ 3678.00 ft (KB)

Start Date: 2019.02.14

End Date: 2019.02.15

Start Time: 18:23:05

End Time: 02:39:44

Capacity: 8000.00 psig

Last Calib.: 2019.02.15

Time On Btm: 2019.02.14 @ 20:34:15

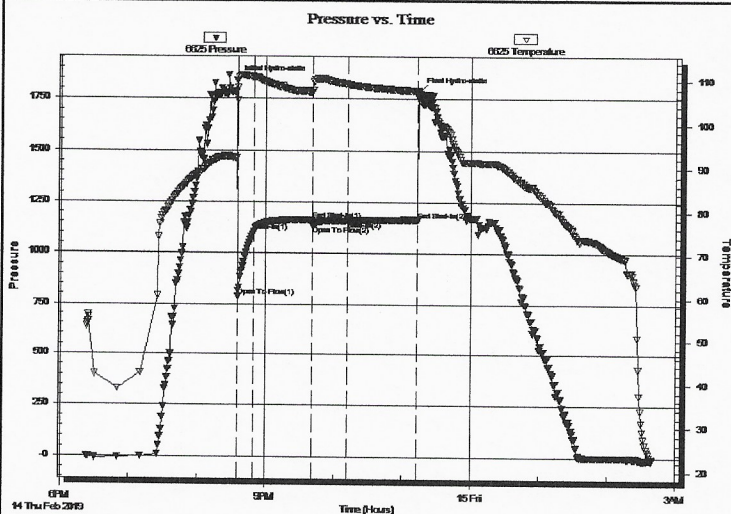
Time Off Btm: 2019.02.14 @ 23:15:00

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") in 15 sec or less, built to 584 1/2"

45 - IS: No blow back

30 - FF: Blow built to BOB at 1 min., built to 71"

60 - FSI: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.65	92.37	Initial Hydro-static
1	785.65	105.41	Open To Flow (1)
16	1101.96	110.74	Shut-In(1)
67	1163.82	107.24	End Shut-In(1)
67	1131.60	107.24	Open To Flow (2)
97	1158.85	109.16	Shut-In(2)
159	1164.75	107.69	End Shut-In(2)
161	1785.33	105.37	Final Hydro-static

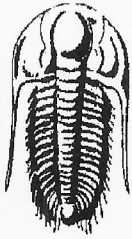
## Recovery

Length (ft)	Description	Volume (bbl)
2055.00	Water 97%w, 3%m	28.83
185.00	MCW 75%w, 25%m	2.60
235.00	WM 52%m, 48%w	3.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Arcadian Resources, Inc

24-2s-27w Decatur, KS

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65318

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 18:23:00

### GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:00

Time Test Ended: 02:39:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3677.00 ft (KB) To 3698.00 ft (KB) (TVD)**

Total Depth: 3698.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2659.00 ft (KB)

2650.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8652 Outside**

Press@RunDepth: psig @ 3678.00 ft (KB)

Start Date: 2019.02.14 End Date: 2019.02.15

Start Time: 18:23:05 End Time: 02:39:29

Capacity: 8000.00 psig

Last Calib.: 2019.02.15

Time On Btm:

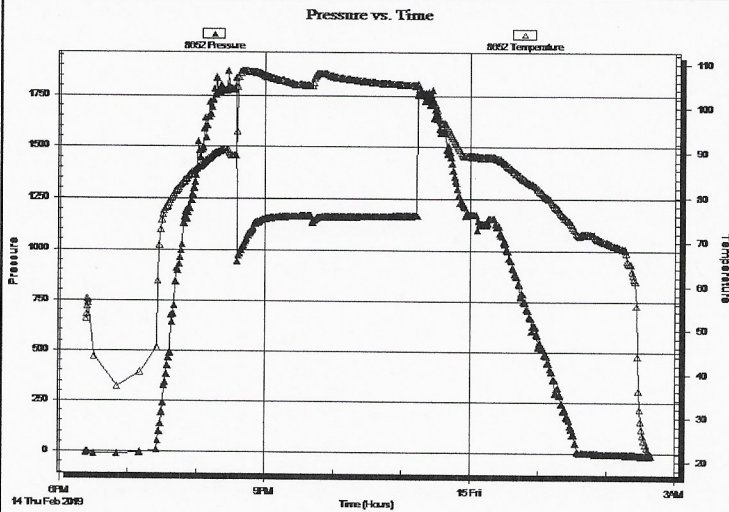
Time Off Btm:

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") in 15 sec or less, built to 584 1/2"

45 - IS: No blow back

30 - FF: Blow built to BOB at 1 min., built to 71"

60 - FS: No blow back



### PRESSURE SUMMARY

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

### Recovery

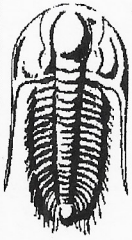
Length (ft)	Description	Volume (bbl)
2055.00	Water 97%w, 3%w	28.83
185.00	MOW 75%w, 25%w	2.60
235.00	MOW 52%w, 48%w	3.30

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65318

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 18:23:00

## Tool Information

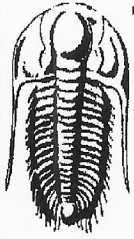
Drill Pipe:	Length: 3661.00 ft	Diameter: 3.80 inches	Volume: 51.35 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 51.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3677.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			3650.00	
Shut In Tool	5.00			3655.00	
Hydraulic tool	5.00			3660.00	
EM Tool	4.00			3664.00	
Safety Joint	3.00			3667.00	
Packer	5.00			3672.00	28.00 Bottom Of Top Packer
Packer	5.00			3677.00	
Packer - Shale	0.00			3677.00	
Stubb	1.00			3678.00	
Recorder	0.00	6625	Inside	3678.00	
Recorder	0.00	8652	Outside	3678.00	
Perforations	17.00			3695.00	
Bullnose	3.00			3698.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65318

**DST#: 2**

ATTN: Pat Deenihan

Test Start: 2019.02.14 @ 18:23:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

97000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2055.00	Water 97%w, 3%m	28.826
185.00	MCW 75%w, 25%m	2.595
235.00	WM 52%m, 48%w	3.296

Total Length: 2475.00 ft      Total Volume: 34.717 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

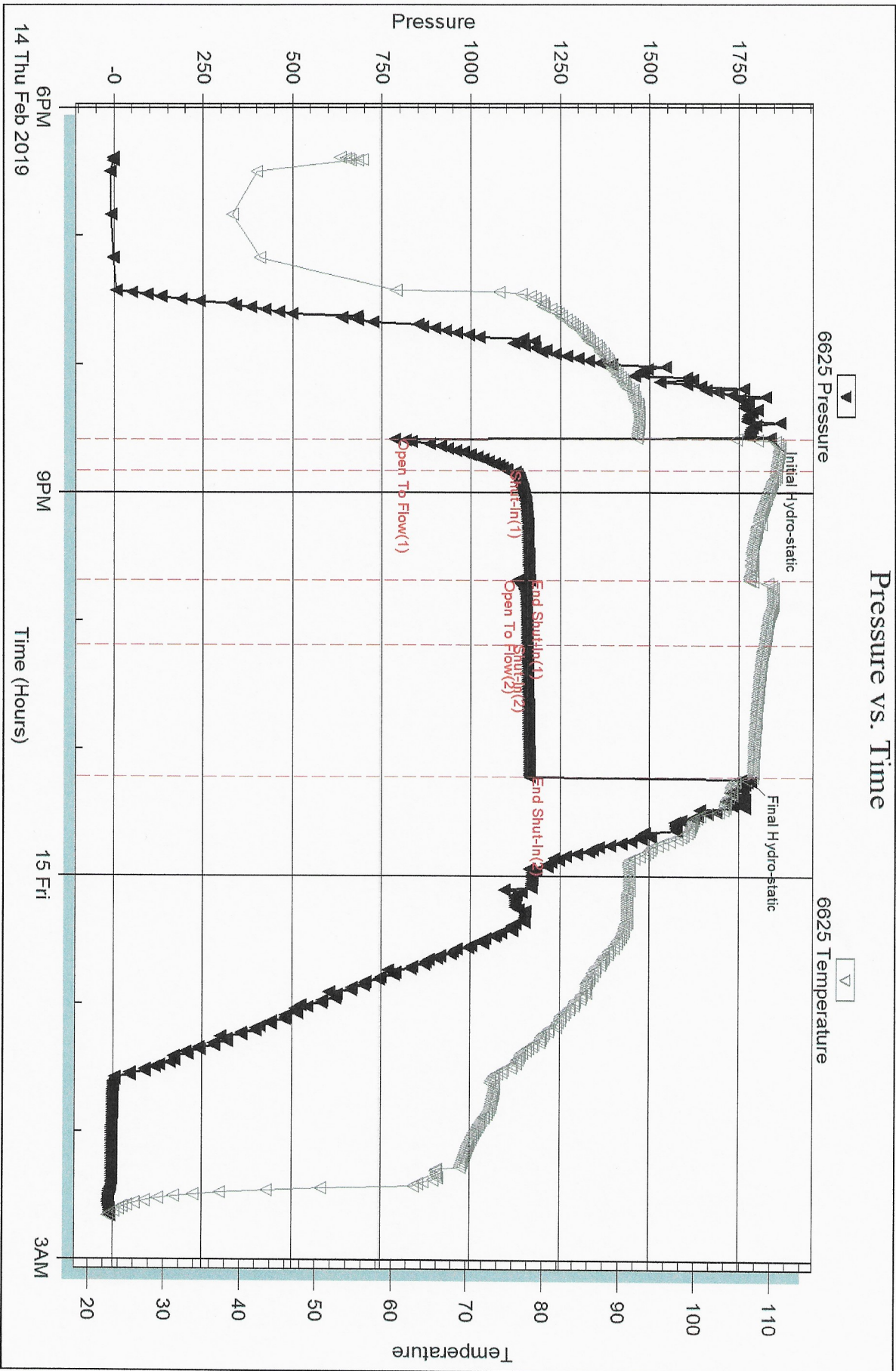
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .218 ohms @ 26 deg F Chlorides = 97,000 ppm



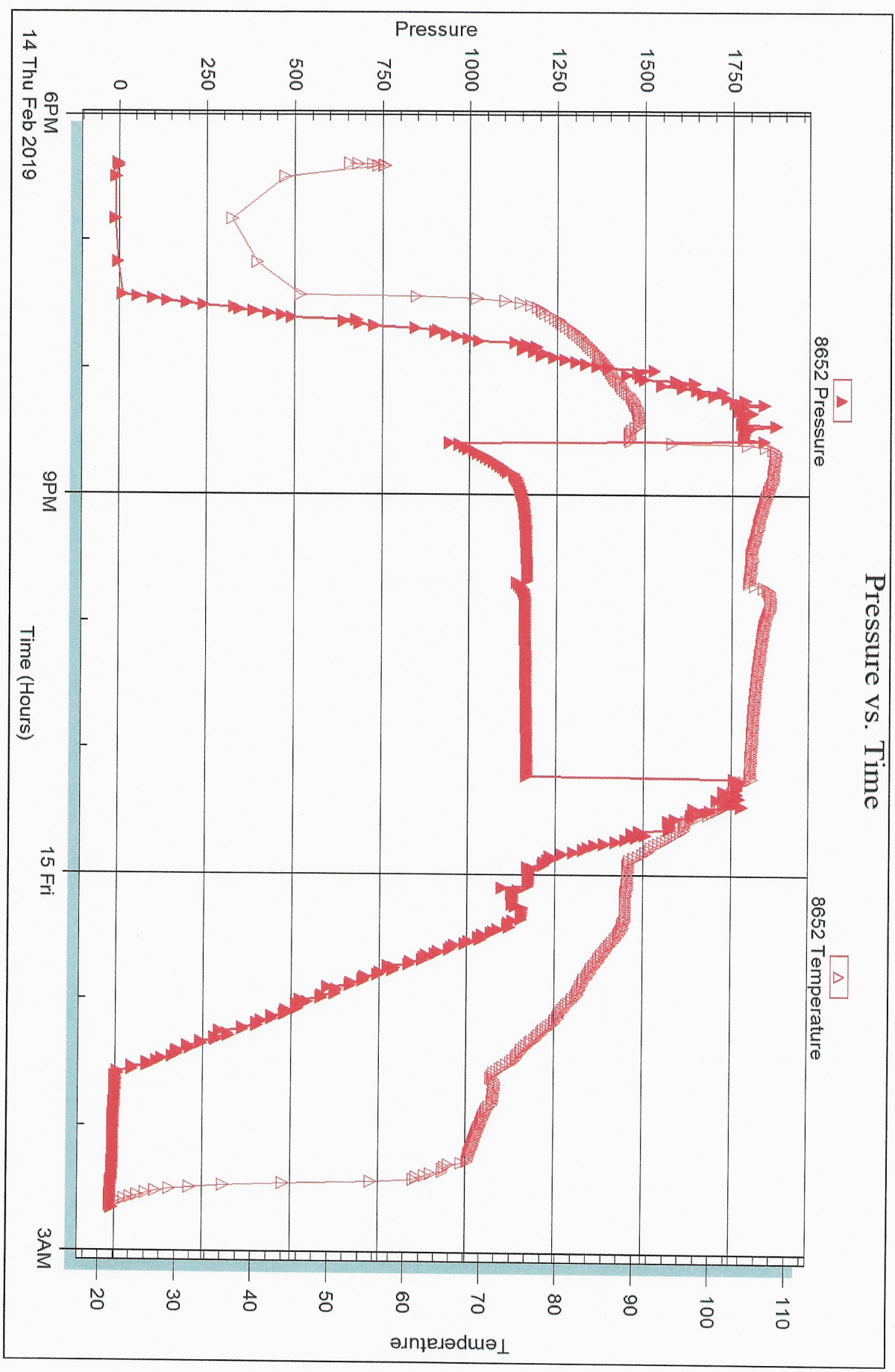


Serial #: 8652

Outside Arcadian Resources, Inc

Tinley #2-24

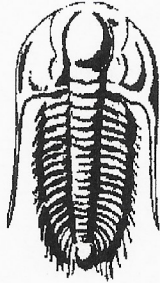
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65318

Printed: 2019.02.18 @ 10:46:30



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources, Inc**

1302 Olive St.  
Concordia, KS 66901

ATTN: Pat Deenihan

**Tinley #2-24**

**24-2s-27w Decatur,KS**

Start Date: 2019.02.16 @ 13:27:00

End Date: 2019.02.16 @ 20:54:15

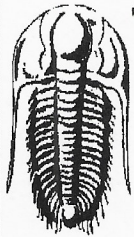
Job Ticket #: 65319                      DST #: 3

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65319

**DST#: 3**

ATTN: Pat Deenihan

Test Start: 2019.02.16 @ 13:27:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:30

Time Test Ended: 20:54:15

**Interval: 3475.00 ft (KB) To 3528.00 ft (KB) (TVD)**

Total Depth: 3943.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

Reference Elevations: 2659.00 ft (KB)

2650.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8652**

**Outside**

Press@RunDepth: 45.60 psig @ 3476.00 ft (KB)

Start Date: 2019.02.16

End Date: 2019.02.16

Start Time: 13:27:05

End Time: 20:54:14

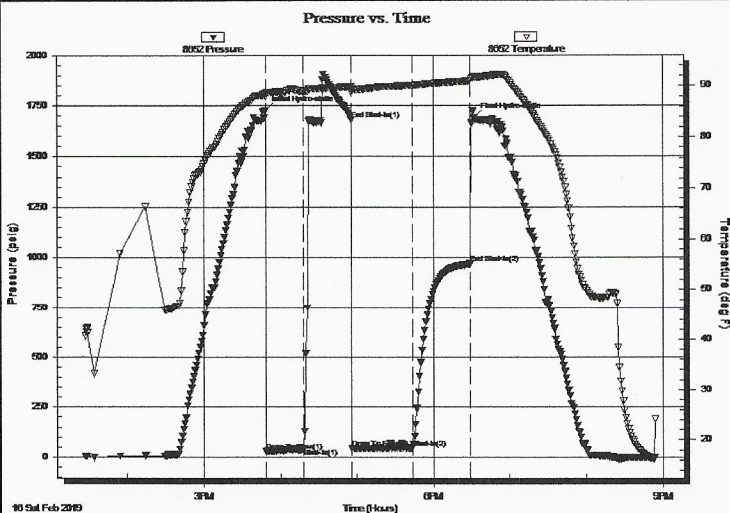
Capacity: 8000.00 psig

Last Calib.: 2019.02.16

Time On Btm: 2019.02.16 @ 15:48:15

Time Off Btm: 2019.02.16 @ 18:32:00

**TEST COMMENT:** 30 - IF: Blow built to 4"  
35 - IS: No blow back  
45 - FF: Blow built to 1"  
45 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.46	88.51	Initial Hydro-static
1	29.33	87.93	Open To Flow (1)
31	41.21	88.98	Shut-In(1)
68	1681.13	89.88	End Shut-In(1)
68	44.41	88.76	Open To Flow (2)
116	45.60	90.10	Shut-In(2)
162	969.51	91.02	End Shut-In(2)
164	1688.32	91.88	Final Hydro-static

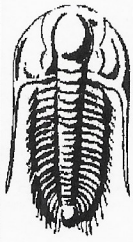
## Recovery

Length (ft)	Description	Volume (bbl)
55.00	WCM 89%m, 11%w	0.77

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Arcadian Resources, Inc

1302 Olive St.  
Concordia, KS 66901

ATTN: Pat Deenihan

**24-2s-27w Decatur,KS**

**Tinley #2-24**

Job Ticket: 65319

DST#: 3

Test Start: 2019.02.16 @ 13:27:00

### GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:30

Time Test Ended: 20:54:15

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

**Interval: 3475.00 ft (KB) To 3528.00 ft (KB) (TVD)**

Total Depth: 3943.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2659.00 ft (KB)

2650.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 6625 Inside**

Press@RunDepth: psig @ 3476.00 ft (KB)

Start Date: 2019.02.16

End Date:

2019.02.16

Capacity: 8000.00 psig

Last Calib.: 2019.02.16

Start Time: 13:27:05

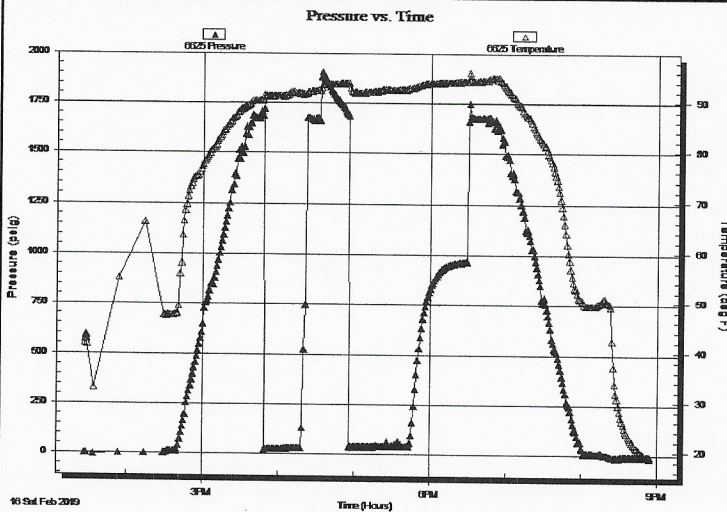
End Time:

20:54:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 4"  
 35 - IS: No blow back  
 45 - FF: Blow built to 1"  
 45 - FS: No blow back



### PRESSURE SUMMARY

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

### Recovery

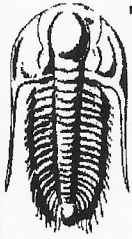
Length (ft)	Description	Volume (bbl)
55.00	WCM 89%w, 11%w	0.77

### Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65319

**DST#: 3**

ATTN: Pat Deenihan

Test Start: 2019.02.16 @ 13:27:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:30

Time Test Ended: 20:54:15

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 83

Reference Elevations: 2659.00 ft (KB)

2650.00 ft (CF)

**Interval: 3475.00 ft (KB) To 3528.00 ft (KB) (TVD)**

Total Depth: 3943.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8167 Below (Straddle)**

Press@RunDepth: psig @ 3529.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.02.16 End Date: 2019.02.16

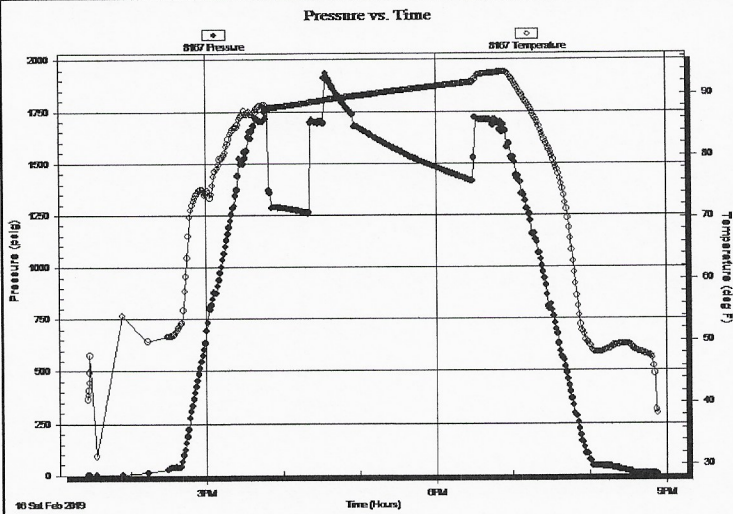
Last Calib.: 2019.02.16

Start Time: 13:27:05 End Time: 20:53:14

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF: Blow built to 4"  
35 - IS: No blow back  
45 - FF: Blow built to 1"  
45 - FS: No blow back



## PRESSURE SUMMARY

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

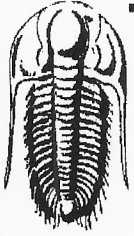
## Recovery

Length (ft)	Description	Volume (bbl)
55.00	WCM 89% <sub>m</sub> , 11% <sub>w</sub>	0.77

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Arcadian Resources, Inc

**24-2s-27w Decatur, KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65319

**DST#: 3**

ATTN: Pat Deenihan

Test Start: 2019.02.16 @ 13:27:00

## Tool Information

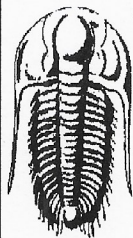
Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3475.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3528.00 ft			
Interval between Packers:	53.00 ft			
Tool Length:	501.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: tool settled after turning for Initial Shut In and lost packer seat

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3443.00	
Shut In Tool	5.00			3448.00	
Hydraulic tool	5.00			3453.00	
Jars	5.00			3458.00	
EM Tool	4.00			3462.00	
Safety Joint	3.00			3465.00	
Packer	5.00			3470.00	33.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Packer - Shale	0.00			3475.00	
Stubb	1.00			3476.00	
Recorder	0.00	6625	Inside	3476.00	
Recorder	0.00	8652	Outside	3476.00	
Perforations	10.00			3486.00	
Blank Spacing	33.00			3519.00	
Perforations	4.00			3523.00	
Blank Off Sub	1.00			3524.00	
Blank Spacing	4.00			3528.00	53.00 Tool Interval
Packer	0.00			3528.00	
Packer - Shale	0.00			3528.00	
Stubb	1.00			3529.00	
Recorder	0.00	8167	Below	3529.00	
Perforations	5.00			3534.00	
Blank Spacing	404.00			3938.00	
Perforations	2.00			3940.00	
Bullnose	3.00			3943.00	415.00 Bottom Packers & Anchor

**Total Tool Length: 501.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Arcadian Resources, Inc

**24-2s-27w Decatur,KS**

1302 Olive St.  
Concordia, KS 66901

**Tinley #2-24**

Job Ticket: 65319

**DST#: 3**

ATTN: Pat Deenihan

Test Start: 2019.02.16 @ 13:27:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	WCM 89%m, 11%w	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

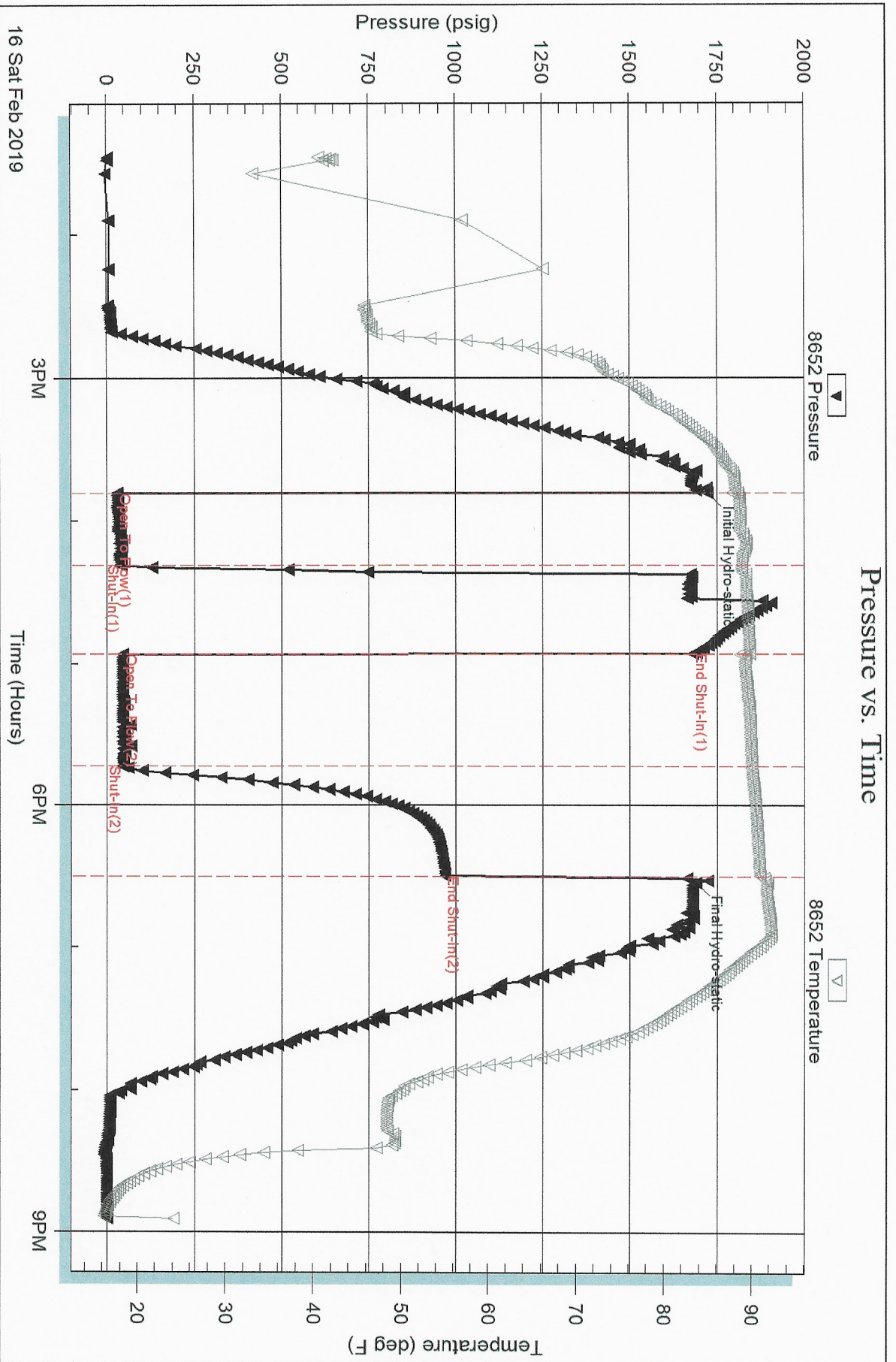
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool slid 2 minutes into initial shutin





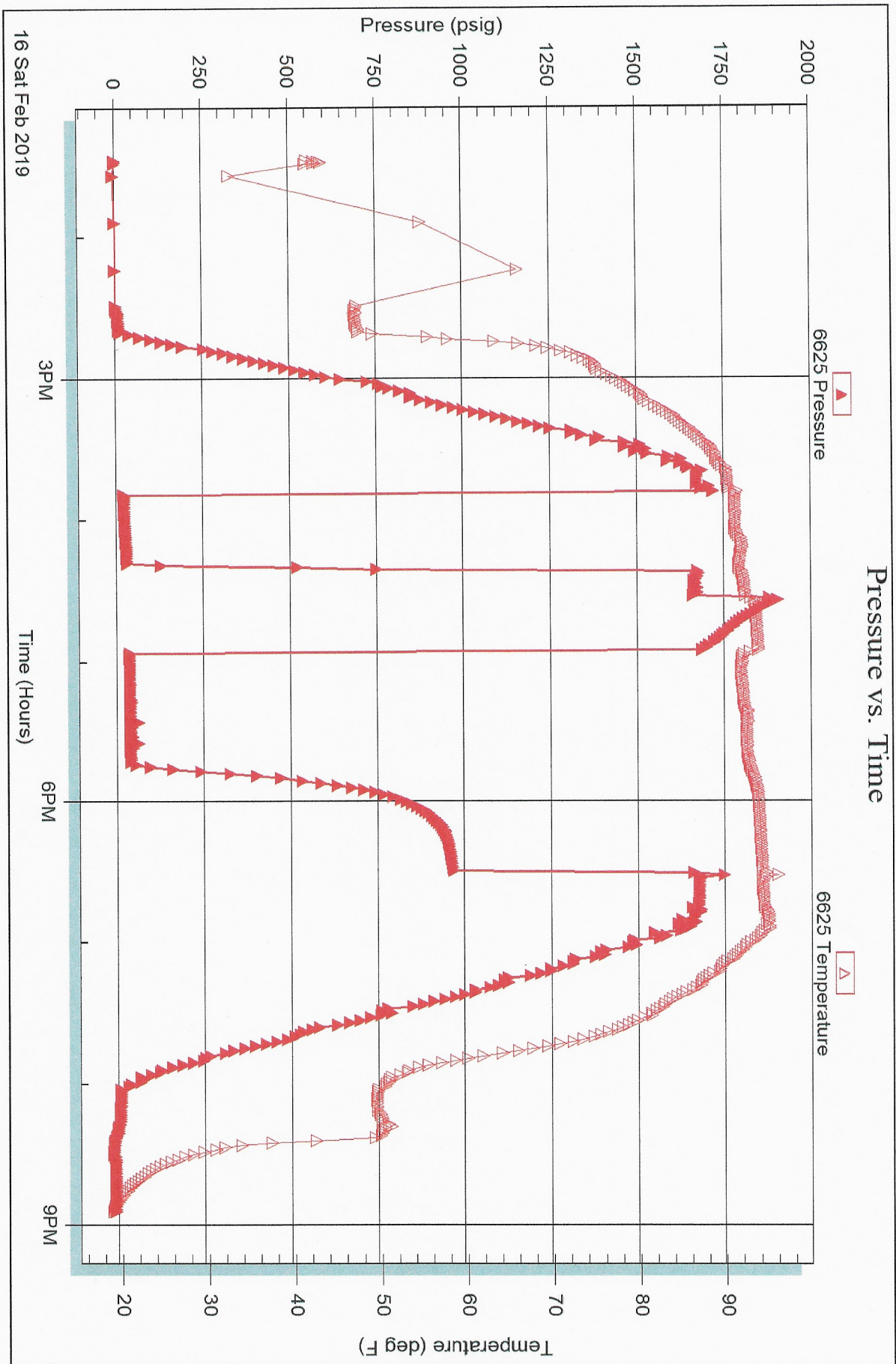
Serial #: 6625

Inside

Arcadian Resources, Inc

Trinley #2-24

DST Test Number: 3



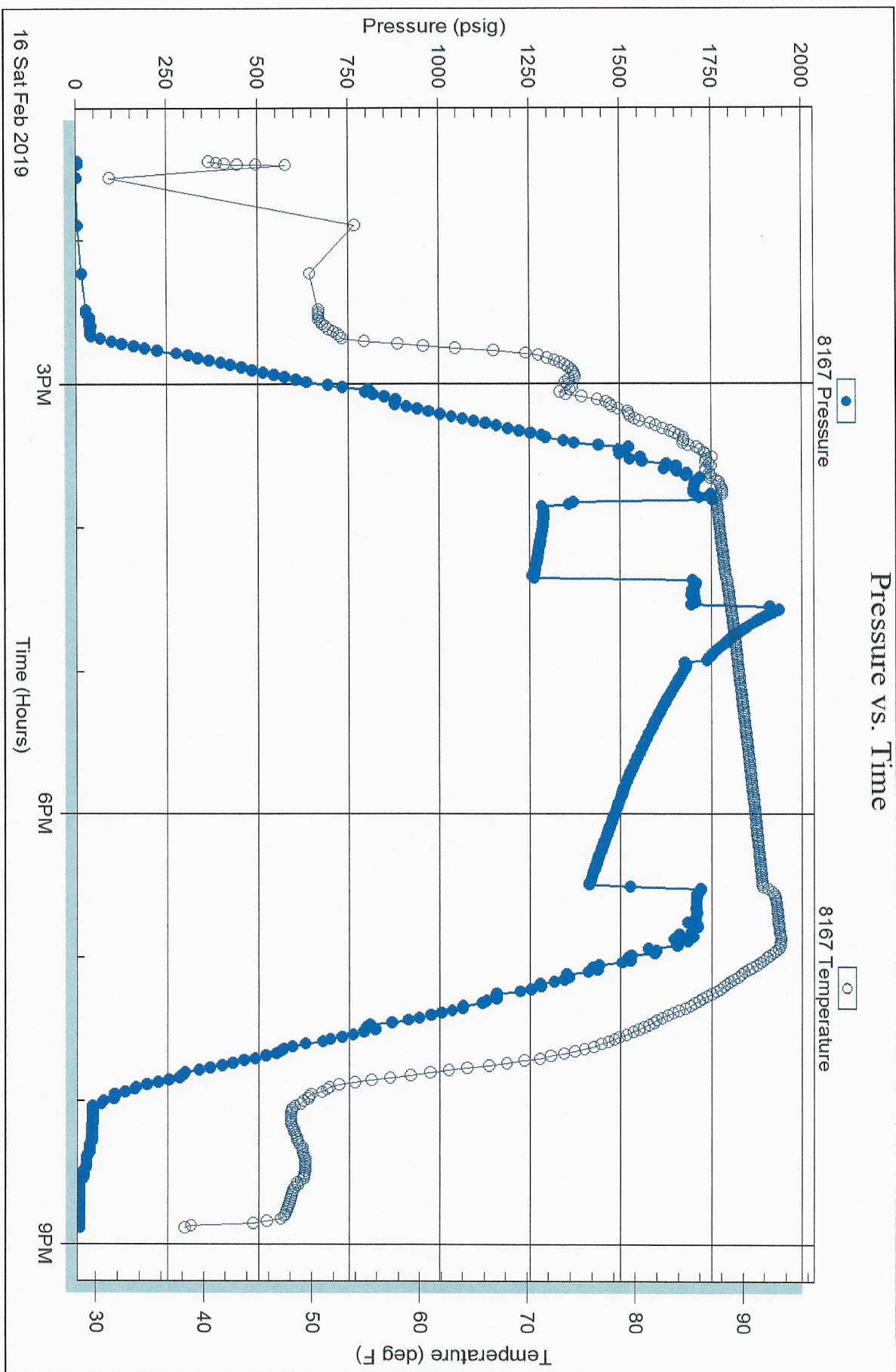


Serial #: 8167

Below (Strat) Arabian Resources, Inc

Tinley #2-24

DST Test Number: 3

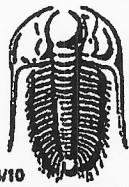


Trilobite Testing, Inc

Ref. No: 65319

Printed: 2019.02.18 @ 10:45:58





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65317

Well Name & No. Tinley #2-24 Test No. 1 Date 2-13-19  
 Company Arcadian Resources Inc. Elevation 2659 KB 2650 GL  
 Address 1302 Olive St Concordia KS 66901  
 Co. Rep / Geo. Pat Deenihan Rig Duke #4  
 Location: Sec. 24 Twp 2s Rge. 27w Co. Decatur State KS

Interval Tested 3554 - 3682 Zone Tested Lans "E-K"  
 Anchor Length 128 Drill Pipe Run 3534 Mud Wt. 9.3  
 Top Packer Depth 3549 Drill Collars Run - Vls 55  
 Bottom Packer Depth 3554 (Shale) Wt. Pipe Run - WL 7.2  
 Total Depth 3682 Chlorides 750 ppm System LCM 4  
 Blow Description IF: Blow built to BOB(11") at 4 1/4 min., built to 68"  
ISI: Very weak surface blowback  
FF: Blow built to BOB at 4 1/4 min., lost packer seat  
Pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>LWM</u>		<u>47</u>	<u>53</u>	
<u>435</u>	<u>MCLW</u>		<u>87</u>	<u>13</u>	
<u>685</u>	<u>WCM</u>		<u>27</u>	<u>73</u>	
<u>185</u>	<u>Mud</u>			<u>100</u>	
	<u>Oil Spots in tool</u>				

Rec Total 1430 BHT 101 Gravity \_\_\_\_\_ API RW .163 @ 46.3 °F Chlorides 75,000 ppm

(A) Initial Hydrostatic <u>1747</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>21:30</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:56</u> <u>4.4</u>
(C) First Final Flow <u>281</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:34</u>
(D) Initial Shut-In <u>1059</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>6:01</u>
(E) Second Initial Flow <u>289</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:00</u>
(F) Second Final Flow <u>546</u>	<input checked="" type="checkbox"/> Mileage <u>34RT</u> <u>34</u>	Comments _____
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1632</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>10?</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>-</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1659</u>
	Sub Total <u>1659</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative James Winder  
 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.





# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65318

Well Name & No. Tinley #2-24 Test No. 2 Date 2-14-19  
 Company Arcadian Resources Inc Elevation 2659 KB 2650 GL  
 Address 1302 Olive St Concordia, KS 66901  
 Co. Rep / Geo. Pat Deenihan Rig Duke #4  
 Location: Sec. 24 Twp 2s Rge. 27w Co. Decatur State KS

Interval Tested 3677 - 3698 Zone Tested Lans. "L"  
 Anchor Length 21 Drill Pipe Run 3661 Mud Wt. 9.2  
 Top Packer Depth 3672 Drill Collars Run - Vis 61  
 Bottom Packer Depth 3677 (Shale) Wt. Pipe Run - WL 7.6  
 Total Depth 3698 Chlorides 2500 ppm System LCM 3

Blow Description IF: Blow built to BOB in 15 sec or less, built to 584 1/2"  
ISI: No blowback  
FF: Blow built to BOB at 1 min., built to 71"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>235</u>	<u>Wm</u>		<u>48</u>	<u>52</u>	
<u>185</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
<u>2055</u>	<u>Water</u>		<u>97</u>	<u>3</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2475 BHT 108 Gravity \_\_\_\_\_ API RW 218 @ 26 °F Chlorides 97,000 ppm  
 (A) Initial Hydrostatic 1838  Test 1050 T-On Location 17:35 2/14  
 (B) First Initial Flow 786  Jars \_\_\_\_\_ T-Started 18:23  
 (C) First Final Flow 1102  Safety Joint Run for Emtool T-Open 20:35  
 (D) Initial Shut-In 1163  Circ Sub \_\_\_\_\_ T-Pulled 23:13  
 (E) Second Initial Flow 1132  Hourly Standby \_\_\_\_\_ T-Out 2:35 2/15  
 (F) Second Final Flow 1159  Mileage 34RT 34 Comments \_\_\_\_\_  
 (G) Final Shut-In 1165  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1785  Straddle \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 60

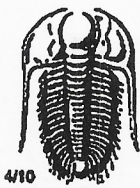
Shale Packer 250  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1334  
 EM Tool 350  
 Ruined Shale Packer 350  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 700  
 Total 2034  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative James Winder

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65319

Well Name & No. Tinley #2-24 Test No. 3 Date 2-16-19  
 Company Arcadian Resources Inc. Elevation 2659 KB 2650 GL  
 Address 1302 Olive St. Concordia, KS 66901  
 Co. Rep / Geo. Pat Deenihan Rig Duke #4  
 Location: Sec. 24 Twp 2S Rge. 27W Co. Decatur State KS

Interval Tested 3475 - 3528 Zone Tested Lans. "A"  
 Anchor Length 53 Anchor 415 Tail Drill Pipe Run 3446 Mud Wt. 9.5  
 Top Packer Depth 3470 - 3475 (shale) Drill Collars Run - Vis 48  
 Bottom Packer Depth 3528 (shale) Wt. Pipe Run - WL 8.8  
 Total Depth 3943 Chlorides 4000 ppm System LCM 2 1/2

Blow Description IF: Blow built to 4"  
ISI: No blowback  
FF: Blow built to 1"  
FSI: No blowback

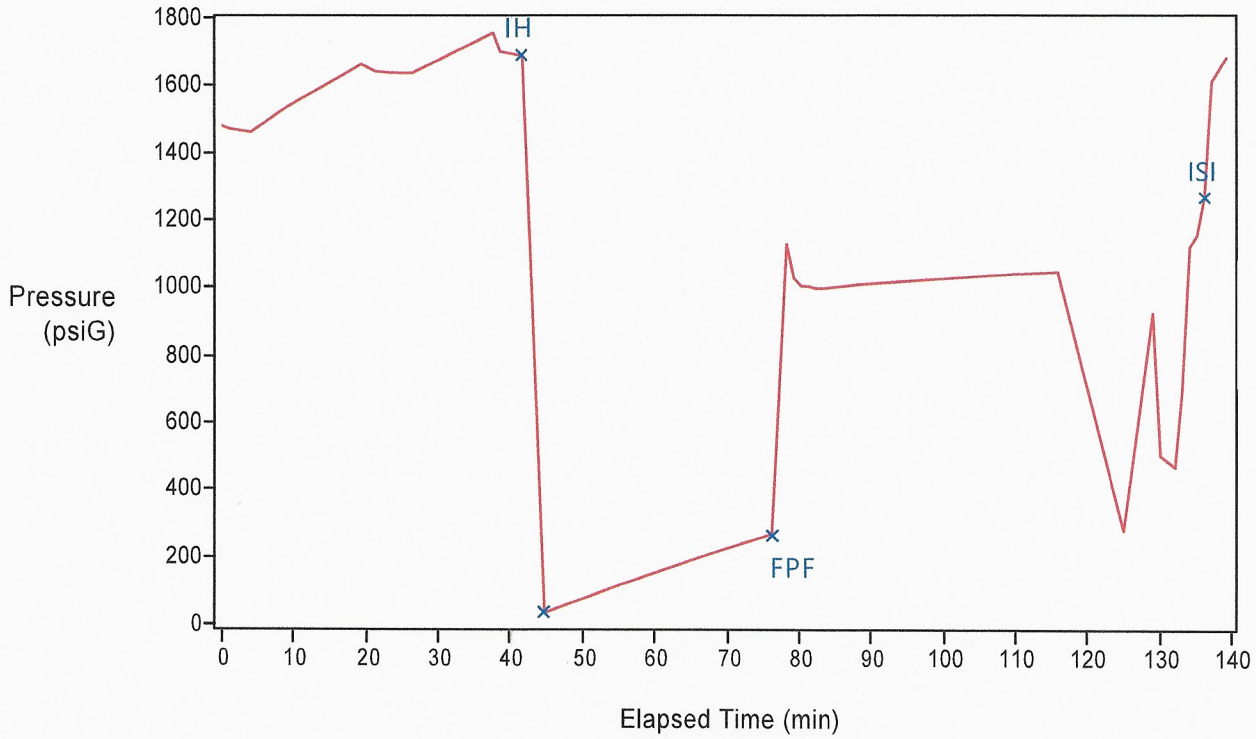
Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>WCM</u>		<u>11</u>	<u>89</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 55 BHT 91 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1723  Test 1050 T-On Location 10:45  
 (B) First Initial Flow 29  Jars 250 T-Started 13:27  
 (C) First Final Flow 41  Safety Joint 75 T-Open 15:48  
 (D) Initial Shut-In lost packer seat 1681  Circ Sub T-Pulled 18:29  
 (E) Second Initial Flow 44  Hourly Standby T-Out 21:30  
 (F) Second Final Flow 46  Mileage 34 RT 34 Comments \_\_\_\_\_  
 (G) Final Shut-In 970  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1688  Straddle 600  EM Tool 350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2509 Sub Total 2859 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative James Winder  
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Pressure Plot



Company Name: Arcadian Resources Inc.  
 Ticket Number: 65317  
 Test Number: 1  
 Well Name: Tinley #2-24  
 Location: 24/2s/27w Decatur  
 Date: 2019/02/14  
 Formation Name: Lans. "E - K"  
 Formation Interval: 3554 - 3682  
 Gauge Depth: 3539  
 Atmospheric Pressure: 14.00 psi  
 Start Time: 03:50:58

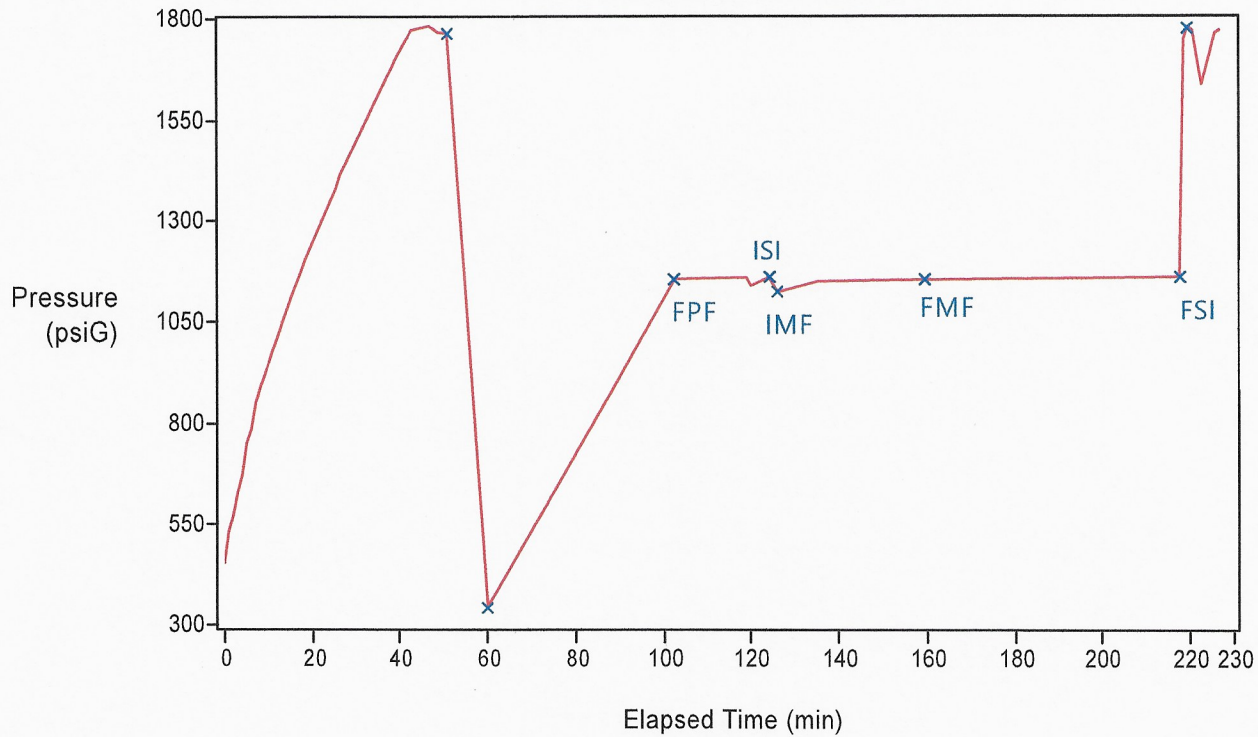
Tag	Time (h:m:s)	Pressure (psiG)
Initial Hydrostatic (IH)	04:32:39	1687.20
Initial Pre-Flow (IPF)	04:35:42	33.60
Final Pre-Flow (FPF)	05:07:13	266.40
Initial Shut-In (ISI)	06:07:12	1266.00
Initial Main Flow (IMF)		
Final Main Flow (FMF)		
Final Shut-In (FSI)		
Final Hydrostatic (FH)		

Notes:

Phase	Duration (h:m:s)
Entire Test	02:19:17
Pre-Flow	00:31:31
First Shut-In	00:59:59
Main Flow	
Second Shut-In	



Pressure Plot



Company Name: Arcadian Resources Inc.  
 Ticket Number: 65318  
 Test Number: 2  
 Well Name: Tinley #2-24  
 Location: 24/2s/27w Decatur, KS  
 Date: 2019/02/14  
 Formation Name: Lans. "L"  
 Formation Interval: 3677 - 3698  
 Gauge Depth: 3662  
 Atmospheric Pressure: 14.00 psi  
 Start Time: 19:35:37

Tag	Time (h:m:s)	Pressure (psiG)
Initial Hydrostatic (IH)	20:26:27	1763.90
Initial Pre-Flow (IPF)	20:35:36	344.90
Final Pre-Flow (FPF)	21:18:18	1154.50
Initial Shut-In (ISI)	21:39:39	1158.10
Initial Main Flow (IMF)	21:41:41	1121.80
Final Main Flow (FMF)	22:15:14	1153.10
Final Shut-In (FSI)	23:13:12	1159.60
Final Hydrostatic (FH)	23:15:14	1778.00

Notes:

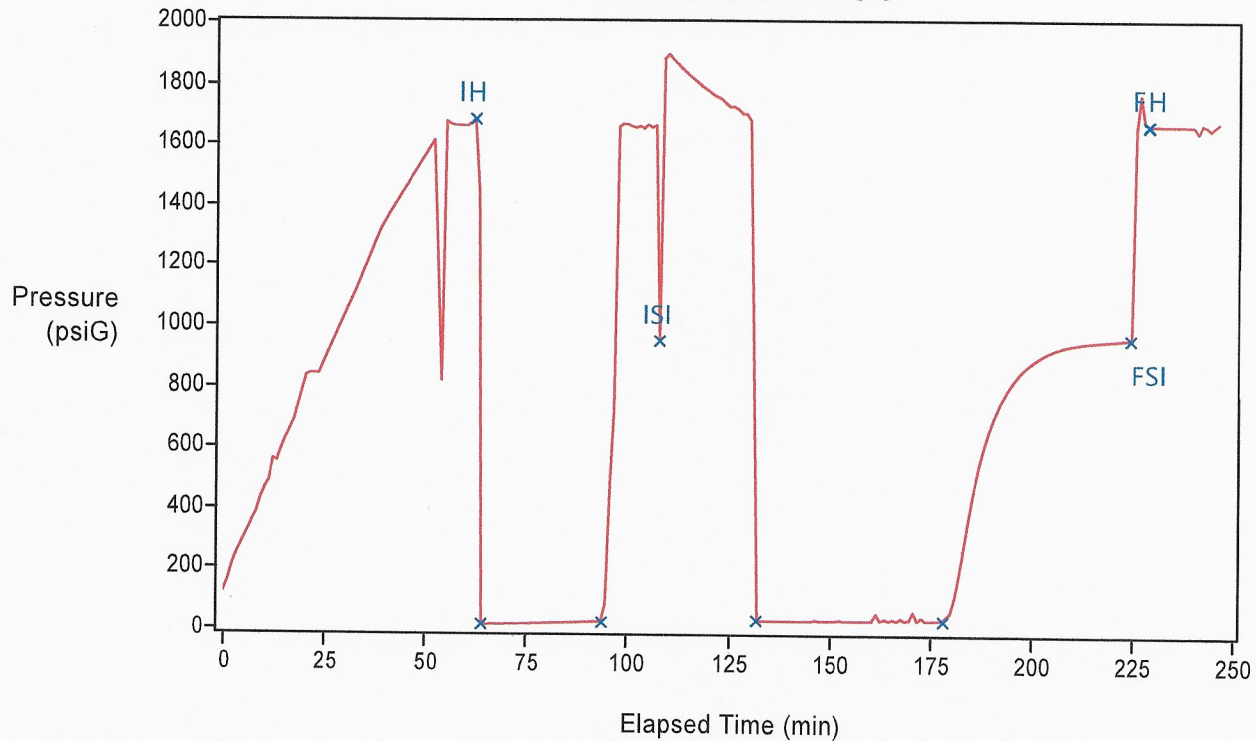
Phase	Duration (h:m:s)
Entire Test	03:46:44
Pre-Flow	00:42:42
First Shut-In	00:21:21
Main Flow	00:33:33
Second Shut-In	00:57:58



# GeoPSI Data Monitoring ResPlot RT™

## Test Information

### Pressure Plot



Company Name: Arcadian Resources, Inc.  
 Ticket Number: 65319  
 Test Number: 3  
 Well Name: Tinley #2-24  
 Location: 24/2s/27w Decatur KS  
 Date: 2019/02/16  
 Formation Name: Lans. "A"  
 Formation Interval: 3475-3528  
 Gauge Depth: 3455  
 Atmospheric Pressure: 14.00 psi  
 Start Time: 14:45:31

Tag	Time (h:m:s)	Pressure (psiG)
Initial Hydrostatic (IH)	15:47:32	1682.20
Initial Pre-Flow (IPF)	15:49:34	14.00
Final Pre-Flow (FPF)	16:19:03	26.20
Initial Shut-In (ISI)	16:33:17	953.80
Initial Main Flow (IMF)	16:57:42	30.50
Final Main Flow (FMF)	17:43:27	34.30
Final Shut-In (FSI)	18:30:13	961.20
Final Hydrostatic (FH)	18:34:17	1668.90

Notes:

Phase	Duration (h:m:s)
Entire Test	04:06:03
Pre-Flow	00:29:29
First Shut-In	00:14:14
Main Flow	00:45:45
Second Shut-In	00:46:46

**OPERATOR**

Company: Arcadian Resources, LLC  
 Address: 1302 Olive Street  
 Concordia, KS 66901-4900

Contact Geologist: James Deverman  
 Contact Phone Nbr: (785)-639-1808  
 Well Name: Tinley #1-24  
 Location: Section 24-2S-27W  
 API: 15-039-21258-00-00  
 Pool: Wildcat  
 State: Kansas

Field: Unnamed  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Tinley #1-24  
 Surface Location: Section 24-2S-27W  
 Bottom Location: 760' FNL 910' FEL  
 API: 15-039-21258-00-00  
 License Number: 35252  
 Spud Date: 2/6/2019 Time: 12:00 AM  
 Region: Decatur County, Kansas  
 Drilling Completed: 2/13/2019 Time: 6:30 PM  
 Surface Coordinates: 760' FNL & 910' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2650.00ft  
 K.B. Elevation: 2659.00ft  
 Logged Interval: 0.00ft To: 0.00ft  
 Total Depth: 0.00ft  
 Formation: Lansing/Kansas City  
 Drilling Fluid Type: Chemical / Polymer

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 760' FNL  
 E/W Co-ord: 910' FEL

**LOGGED BY**

Company: Arcadian Resources, LLC  
 Address: 1407 N. Stratford Ln.  
 Wichita, KS 67206

Phone Nbr: (316)-619-5574  
 Logged By: Geologist

Name: Patrick J Denihan

**CONTRACTOR**

Contractor: Duke Drilling Company, Inc.  
 Rig #: 4  
 Rig Type: mud rotary  
 Spud Date: 2/6/2019  
 TD Date: 2/13/2019  
 Rig Release: 2/17/2019

Time: 12:00 AM  
 Time: 6:30 PM  
 Time: 3:30 AM

**ELEVATIONS**

K.B. Elevation: 2659.00ft  
 K.B. to Ground: 9.00ft

Ground Elevation: 2650.00ft

**NOTES**

Surface Casing: 8-5/8" at 264'

Prod. Casing: Not Applicable

ARCADIAN RESOURCES, LLC  
 DECATUR CO., KS.

LOC : SEC.24-T2S-R27W 760' FNL & 910' FEL  
 ELEVATION= GL. 2650' KB. 2659'

Daily Penetration: 02/06/19 MIRU

02/07/19	264'	SPUD @ 12:40 AM -- Set Surface @264'	
02/08/19	264'	Drilled out Plug @ 1:45 PM	
02/09/19	1541'		
02/10/19	2385'	Pulled Leaking Kelly 3889'	****
02/11/19	2889'	Put New Kelly on at 1:30 PM	****
02/12/19	3052'		****
02/13/19	3564'		****
02.14/19	3680'		****
02/15/19	3710'		****
02/16/19	3943'	Run Pipe in Hole	****
02/17/19	3943'	Pulling out pipe and laying Down Pipe For Plugging Well	*

### DRILL STEM TESTS

DST #1 (3554' - 3682') (Lans. D-J) (30"- 45" - 10" -Packer Failure)  
 IF: BOB in 11" Built to 68  
 ISI: Very Weak surface Blow Back  
 FF: BOB in 4.25 Miutes-Lost Packer seat. Pulled Tool  
 REC: Oil Spots in Test Tool: 125' WM (53% Mud; 47% Wtr.): 435' of MCW (87% Wtr; 13% Mud) 685 WCM  
 ( 73% Mud;27% Wtr: 185' Mud.  
 IFP: 51#/281# FFP: 289#/ 303# ISIP: 1059# FSIP: 436# ( Losing Packer Seat )  
 IHP: 1747# FHP 1632#

DST #2 (3677' - 3698') (Lans. K) (15"- 45" - 30" - 60")  
 IF: BOB in 11 Sec. Built to584.5" in 15 Sec or Less  
 ISI: No Blow Back  
 FF: BOB in 1Min. Built to 71"  
 FSI: No Blow Back  
 REC: 2055' MW (97% Wtr; 3% Mud) 185' MCW (75% Wtr.; 25% Mud) 235' WM (52% Mud; 45% Wtr.)  
 IFP: 785#/1182# FFP: 1132#/1159# ISIP: 1164# FSIP: 1165#  
 IHP: 1837# FHP: 1785#

DST # 3 (STRADDLE) (3475' - 3528') (Lans. A) (35" - 35" - 45" - 45")  
 IF: Blow built to 4"  
 ISI: No Blow Back.  
 FF: Built to 1"  
 FSI: Bo Blow Back  
 REC: 55' WCM (80% Mud; 11% Wtr.)  
 IFP: 29#/41# FFP:44#/46# PKR Slipped (Re-Set) ISIP: 1681# FSIP: 969#  
 IHP: 1723# FHP: 1688#







### GEOLOGICAL TOPS

Formation	Sample Top	Datum	Log	Datum
-----------	------------	-------	-----	-------



Formation	Sample Top	Bottom	Log	Bottom
Anhydrite	2155	(+504)	2156	(+505)
Base/Anhy.	2190	(+469)	2189	(+470)
Howard	3263	(-604)	3271	(-612)
Topeka	3300	(-647)	3311	(-652)
Oread	3342	(-783)	3356	(-697)
Heebner	3466	(-807)	3479	(-820)
Toronto	3496	(-837)	3511	(-852)
Lansing	3507	(-848)	3520	(-861)
B/KC	3721	-1068	N. L.	N. L.
Marm.	3734	-1075	N. L.	N. L.
Ft.Scott	3800	-1141	N. L.	N. L.
Cher. Sh.	3828	-1169	N. L.	N. L.
Basal Penn SD	3880	-1221	N. L.	N. L.
Granite Wash.	3885	-1226	N. L.	N. L. .
Total Depth	3943	-1284	N. L.	N. L. Lost Circ.

### ROCK TYPES





 Anhy vert	 Lmst fw7>	 Ss
 Coal	 shale, gry	 Meta

### OTHER SYMBOLS

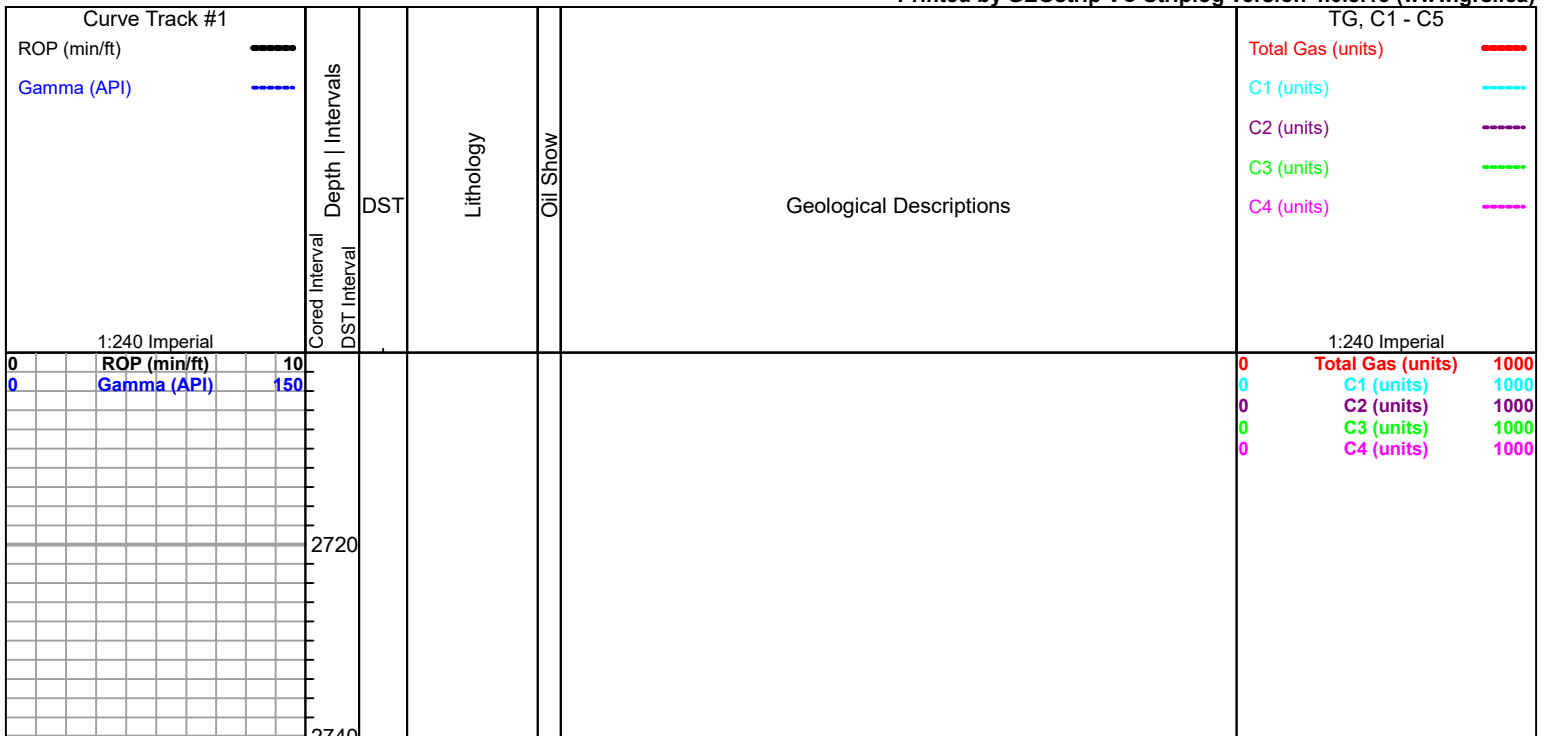
#### Oil Show

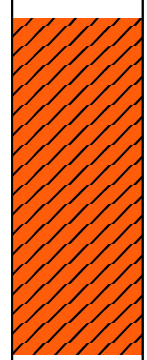
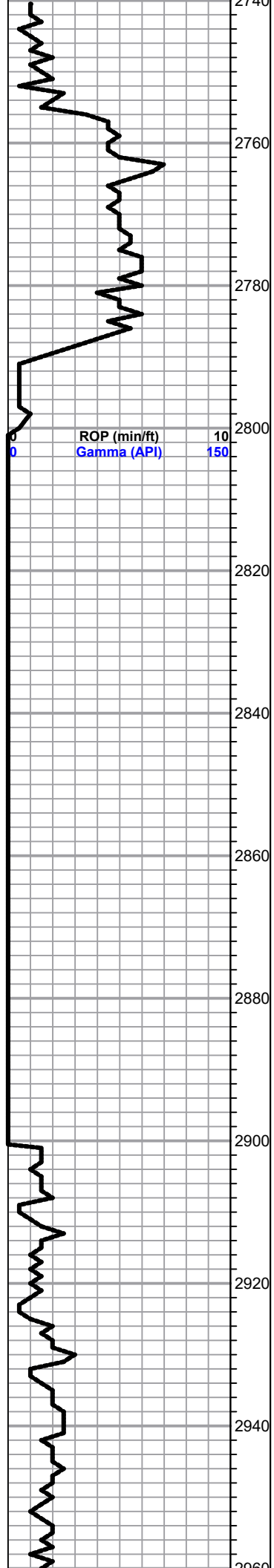
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- D Dead Oil Strn
- Fluorescence
- \* Gas

#### DST

-  DST Int
-  DST alt
-  Core
-  tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Anhydrite 2156 (+505 )

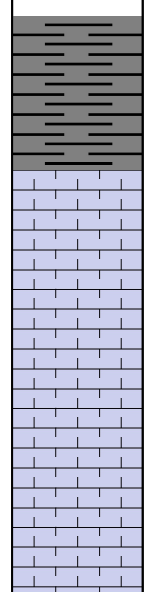
Base/Anhy. 2188 (+471 )

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

Kelly Leaking ( tried to weld 4 times )

On 2-10-19 At 6:30pm we pulled the Kelly at 2889'  
The new Kelly Showed up about 1:20pm On 2-11-19

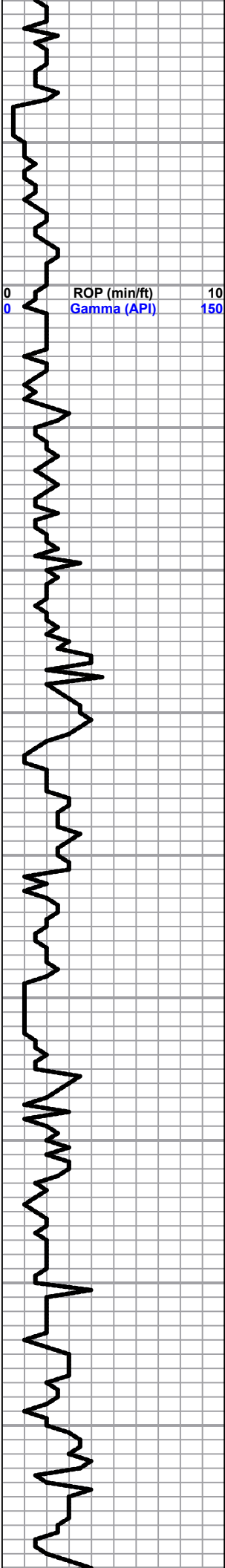
On 2-11-19 the new Kelly showed up around  
1:20pm began drillin at 4:50pm.



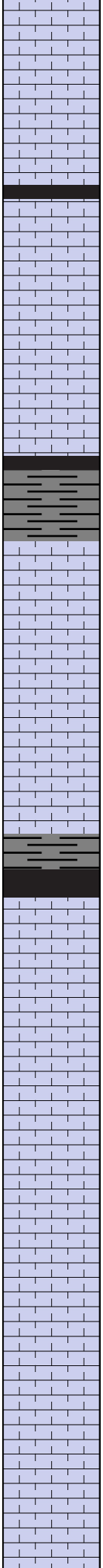
Neva 2916 (-257 )

2900  
2980  
3000  
3020  
3040  
3060  
3080  
3100  
3120  
3140  
3160  
3180

ROP (min/ft) 10  
Gamma (API) 150



Displaced Mud @ 2971'



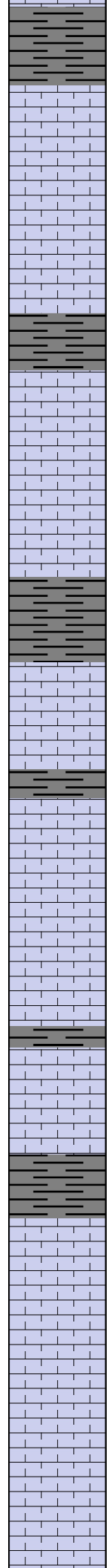
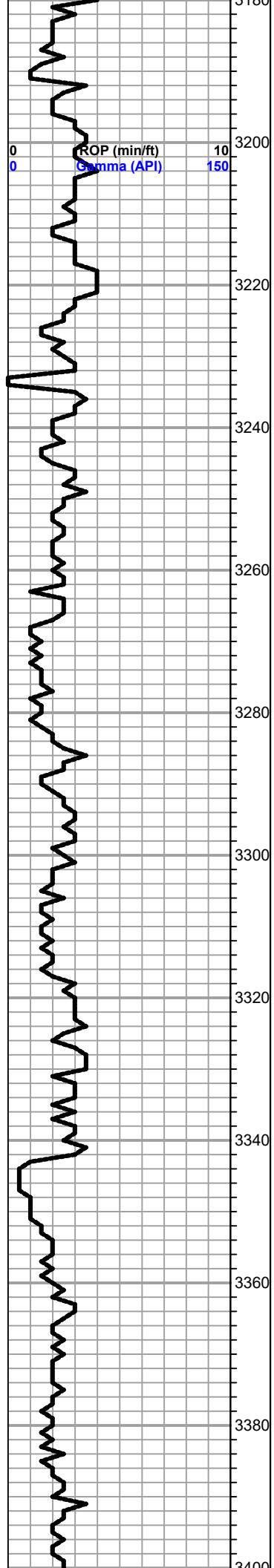
Total Gas (units) 1000  
C1 (units) 1000  
C2 (units) 1000  
C3 (units) 1000  
C4 (units) 1000

Mud Check @ 3000'  
Vis: 66  
WT: 8.7  
LCM: 6#

Foracre 3036 (-377 )







Sh., Lime Grn., Brn gummy to Argil.

Ls., Tan to Brn., ry to Dk-Gry., Micro to Fn-xln., Trc. of Cherty Lm. and P-Fssl. No show.

Ls., Gry., Tan., Brn., Micro., and Fn-xln Dense No., Show

Sh., Gry., Grn., Brn., Argil to Gummy

**Elmont 3240 (- 573)**

Ls Gry., Tan., Crm., Dense Fn-xln. No Show.

Ls., Wht., Tan, Lt-Gry Fn-xln., Chalky. P-Ool por.

Sh., Gr.,Dk-Gry Tan., Brn., Grn. Argil.

Sh.,Gry., Grn., Brn. Aril.

**Howard 3272 (-613)**

Ls., Abund Wht., Chalk., with Gry Dense Micro -xln., trc of Fra. Fssl. No show.

Sh., Vari-Color. (Lt-Gry., Blk. Lime Grn) Argil. Brn. very gummy..

Ls., Gry., Tan, Fn-xln. Dense. Trc. of P-ool to sib-Cherty Lm No show

**Topeka 3311 (-652)**

Ls., Lt. to Med-Gry., Tan. to Brn.Dense Fn-xln. to blocky. Trc of P-Ool. Por. No Show.

Ls., Wht. Chalky to Fn-xln. Crm to Brn Fn-xln to Ool.

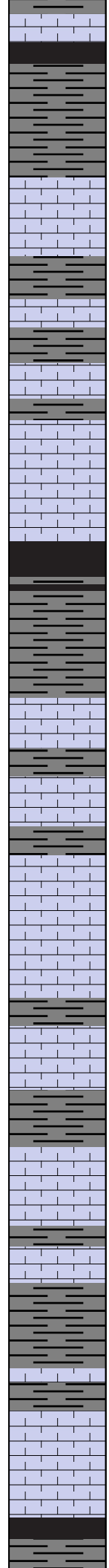
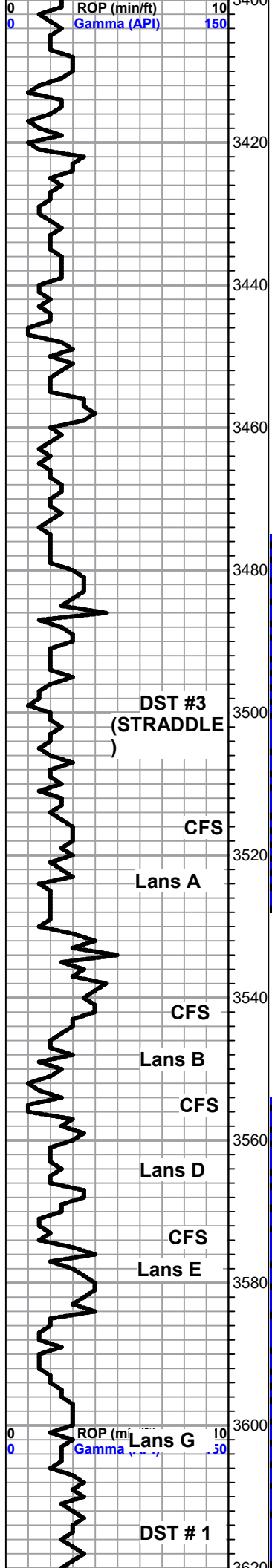
Sh., Vari-Color. Silty and Aril.

Ls., Wht., Crn., Lt-Cry., Fn-xln to Chalky. No Show

Ls., As/Above. No show.

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

**Andy's Mud Check @ 3262'**  
**Vis: 65**  
**WT: 8.9**  
**WL: 7.2**  
**CHL: 750**  
**Lcm: 3.5 #**



Sh., Gry. to Dk-Gry. Argil.

**Queen Anne Shale 3406 (-747)**

Sh., Black Carb.

Sh., Gry to Dk-Gry, Maroon, Lime Grn. Brn., and Trc of Blk. Argill., Calc., Gummy.

**Oread 3426 (-767)**

Ls., Crm., Tan., Dense Micto to Fn-xln. No show.

Sh., Gry., Grn. Argil. Brn Gummy.

Ls., Crm., Lt-Brn., Fn-xln., to sub-Chalky. No show.

Sh., Gry., Grn. & Brn.

Sh., Vari-Color.

Ls., as/above with Crm fresh opaque chert.V-P-Ool Porosity., Sub Chalky. No Show

**Heebner 3476 (-817)**

Sh., Black Carb.

Sh., Vari-Colored.Aril to Gummy Trc. of Carb. Blk and Gry.,

Ls., Crm., Tan., Fn-cln with Trc of V-Fssl.Por. No show

**Toronto 3511 (- 852)**

Ls Crm., Lt-Gry. Dense Micro-xln., No Vis. Por., No show.

Sh., Predom. Brn.- Gummy with Lime Green and Gry. Argil.

**Lansing 3520 (-861)**

Ls., Tan to Lt.-Gry., Fn- xln., Sli-Fssl. very small oolites carrying Black oil Spots. Very Friable. No Free oil

Ls., Lt-Gry to Gry Dense Micro-to Fn-xln Por. No Show

Sh., Gry., Lime Grn. to Grn. Argil. Reddish Brn.Gummy

Ls., Wht., Fn-xln., F-Fssl Por. Fra to Ool. shallow small vugular Porosity., Sub-Chalky Fair to G. Odor Barren to Scattered Oil LFO beads., Dk Brn to Black., No Fluor

Sh., Brn and Gry.

Ls., Crm., Fn-xln. to Fssl. Sli-Ool

Sh., Gry., Brn., Aril.

Ls., Lt-Gry to Gry. modded Dense Micro-xln. No Vis show of Porosity. No Show

Sh.,Vari-Color. Aril to Brn. Gummy

Sh., Gry and Brn.

Ls., Wht., Lt-Gry. Fn-xln to Micro-xln. No show.

Sh., Black Carb.

Sh., Gry to Dark Gry. Aril, Abund. Brn., Aril. No show

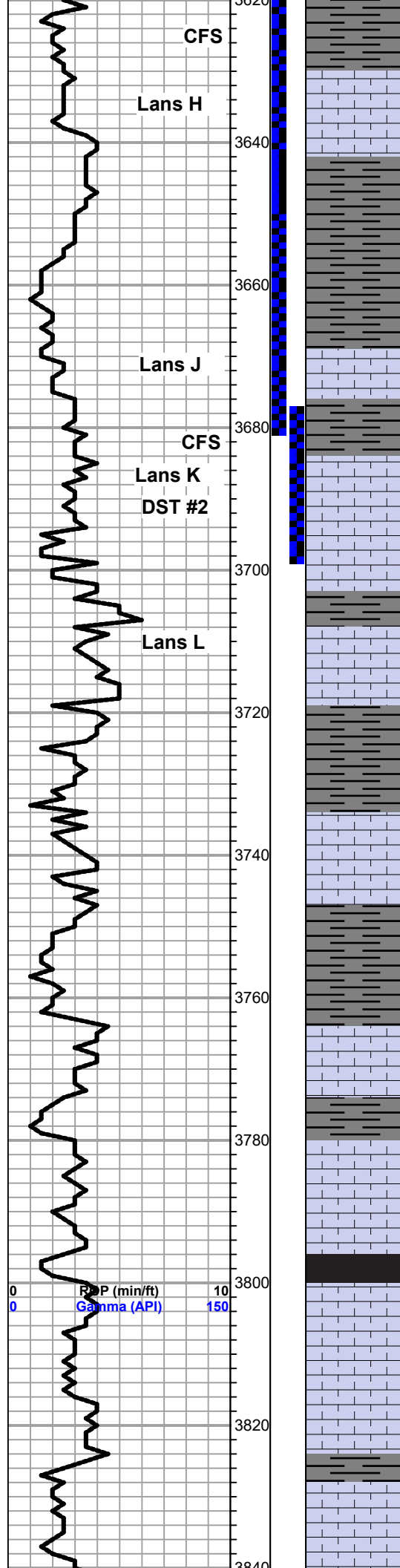
0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

**Rig Mud Check @ 3450'**  
Vis: 61  
WT: 9.0  
LCM: 3#

**Rig Mud Check @ 3575'**  
Vis: 59  
WT: 9.1  
LCM: 3#

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000





Ls., Wht., Crm. Sli-Fssl., abund.Wht. Fn-xln., to Sli-Fssl. por. Trc of good vugular por with oil Stn., Trc of Liht Brn Free Oil. Abund wht Barren Fn-xln Ls.

Sh., B lack Carb.

Ls., Wht., Crm., Dense Fn-xln., Trc. of Fssk sub chalky No Show

Sh., Black., Brn. and Gry., Argil.

Ls., Chert-Dolo. to Edge Tripolitic. G-Inter-granular Porosity with Lt-Brn. Free Oil and abund Gilsonitic to Black Tarry oil. Diesel Odor as above. Zone Torqued while drillin it

Ls., Lt-Gry., Gry. Micro-xln. No Show.

**BKC 3718 (-1059)**

Sh., Abund. Vari-Color,

**Marmaton 3734 (-1075 )**

Ls., Lt-Gry. Dense Fn-xln. No show.

Sh., Gry., Brn., Grn. Samples washing Brn.

Ls., Brn., Gry. Dense Fn-xln., Sub-Chalky. No show.

Sh., Gry., Grn., Brn. Aril

Ls., Lt-Gry to Gry. Dense Micro-xln. No show.

**Labette Sh. 3796 (-1137)**

**Ft. Scott 3800 (1141)**

Ls., Crm to Lt-Brn., Dense Fn-xln., Trc of Frag. Fssl. Sub-Chalky with depth. No Show.

**Cher. Sh. 3828 (-1169)**

Ls., Wht., Crm., Lt-Brn., & Lt-Gry. Dense Micro to Fn-xln. sub-Chalkt to Chalky with depth. No Show

**Andy's Mud Check @ 3625'**

Vis: 55 WT: 9.3  
 WL: 7.7 CHL:  
 750  
 LCM: 4#

Replaced 40' Kelly with 35,5' long Kelly (Including 2' sub) At 2688' was never corrected and Pipe Strap was 6'short to Board after test. Net Gain is 2' Short to board)

**Andy's Mud Check @ 3680**

Vis: 61 WT: 9.2  
 WL: 7.6 CHL:  
 2500  
 LCM: 3#

**Andy's Mud check @ 3786'**

Vis: 57 WT: 9.3  
 WL: 7.6 CHL:  
 3500  
 Lcm: 3 #

0	Total Gas (units)	1000
0	C1 (units)	1000
0	C2 (units)	1000
0	C3 (units)	1000
0	C4 (units)	1000

3840  
3860  
3880  
3900  
3920  
3940  
3960  
3980



**Cher. Lm. 3859 (-1200)**

Sh., Black Carb.  
Ls., Crm., Lt-Brn., Lt Gry., Fn-xln to P-Fssl., Frag. No Show.

**Basal Penn. Sand 3880 (-1221)**

SS, Wht. frosty to Clear., Sorted, Free Qtz. Some Clusters, Well Rd. to Sub-angular. Friable. No Show, No Odor No Fluor.

**Granite Wash 3885 (-1226)**

Granite., Pink to Red., Feldspar. Quartz Non Friable., Silic-Matrix. Dense Micro-xln and Domitic. No Odor No Fluor. No show

A/A

A/A

A/A with med Grained SS., Not Friable and attached to Feldspar and Granite. No odor No Fluor. No show.

**LOST CIRCULATION @  
3943' while Circulating  
For Samples. Pulled Off  
Bottom Got Circ. Back.  
Came out of hole For  
Log. Logged Past last  
Sample Show. To 3700'**