

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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Sean Deenihan

Petroleum Geologist

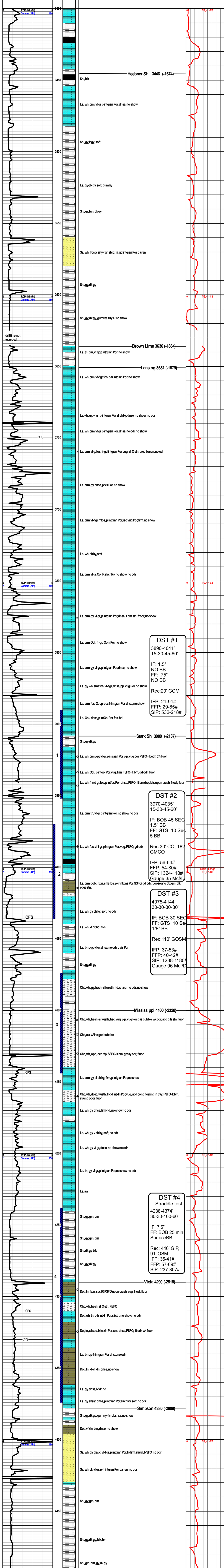
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	Arcadian Resources, LLC	ELEVATIONS	KB 1772'
LEASE	Green High #1-27	DF	
FIELD		GL 1760'	
LOCATION	732' FSL & 1327' FWL	Measurements Are All From Kelly Bushing	
SEC	27 TWP 27 S RGE 12 W		
COUNTY	Prairie STATE Kansas		
CONTRACTOR	Fossil Drilling Rig #3		
SPUD	COMP	CASING	CONDUCTOR
RTD	4500' LTD 4502'		
MUD UP	TYPE MUD Chemical		
SAMPLES SAVED FROM	3400' TO RTD		
DRILLING TIME KEPT FROM	3400' TO RTD		
SAMPLES EXAMINED FROM	3400' TO RTD		
GEOLOGICAL SUPERVISION FROM	3330'		
REFERENCE WELL	CND/DIL MIC		

REMARKS Based on sample analysis, log evaluation, and DST results, the Green High #1-27 was completed with 5.5" production casing.

Respectfully Submitted,
Sean P. Deenihan





HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
ARCADIAN RESOURCES LLC
1302 OLIVE ST
CONCORDIA, KS 66901

Invoice Date: 11/1/2019
Invoice #: 0344936
Lease Name: Green High
Well #: 1-27 (New)
County: Pratt
Job Number: ICT2698
District: El Dorado

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Heavy Eq Mileage	10.000	3.400	34.00
Light Eq Mileage	10.000	1.700	17.00
Ton Mileage-Minimum	1.000	255.000	255.00
Cement pump	1.000	637.500	637.50
H-325 <i>280 SXS.</i>	280.000	17.000	4,760.00

*Cement
Surface*

Total 5,703.50

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Customer	Arcadian Resources	Lease & Well #	Green High #1-27	Date	11.1.2019
Service District	El Dorado	County & State	Pratt Co., KS	Legals S/T/R	27-27S-17W
Job Type	Surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			

91	Fuzzy	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
189	Mark	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
248	Grant	<input checked="" type="checkbox"/> Safety Footwear	<input checked="" type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
289	Justin	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input checked="" type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
M010	Heavy Equipment Mileage	mi	10.00				\$34.00
M015	Light Equipment Mileage	mi	10.00				\$17.00
M025	Ton Mileage- Minimum	each	1.00				\$255.00
C010	Cement Pump	ea	1.00				\$637.50
CP015	H-325	sack	280.00				\$4,760.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

1 2 3 4 5 6 7 8 9 10 **Extremely Likely**

Gross:		Net:	\$5,703.50
Total Taxable	\$ -	Tax Rate:	
Sale Tax:	\$ -	Total:	\$ 5,703.50

State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.

HSI Representative:

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Arcadian Resources, LLC	Well: Green High 1-27	Ticket: ICT 2698
City, State: Concorida, KS	County: Pratt, KS	Date: 11/1/2019
Field Rep: John	S-T-R: 27/27/17	Service: Surface

Downhole Information

Hole Size:	17.5 in
Hole Depth:	224 ft
Casing Size:	13.375 in
Casing Depth:	224 ft
Landing Joint Depth:	8.625 in
Depth:	18 ft
Tool / Packer:	
Depth:	ft
Displacement:	32.4 bbls

Calculated Slurry

Weight:	14.7 # / sx
Water / Sx:	7.09 gal / sx
Yield:	1.44 ft ³ / sx
Bbls / Ft.:	0.1237
Depth:	224 ft
Annular Volume:	27.7088 bbls
Excess:	
Total Slurry:	27.7 bbls
Total Sacks:	108 sx

Product

Product	% / #	#
Class A	100.00	26320
Poz		
Gel	2.00	526
CaCl	3.00	790
Gypsum		
Metso		
Kol Seal		
Flo Seal	0.50	140
Salt (bww)		

TIME	RATE	PSI	BBLs	REMARKS	Total
6:30 PM				On location safety meeting. Spot in and rig up. Hook up to casing	27,776
7:15 PM	3.5	100.0	5.0	Break circulation with 5 BBL freshwater	
7:17 PM	3.5	100.0	71.8	Mix and pump 280 sacks H325	
				Stop cement	
7:38 PM	3.5	100.0		Start displacement	
7:44 PM		150.0	32.4	Stop displacement. Shut in well. Left approximately 25' of cement in casing.	
				Circulated 10 BBL cement to surface	
				WOC for 1 HR	
8:45 PM				Cement stayed at surface	
				Rig down and leave location	

CREW		UNIT	SUMMARY		
Cementer:	Justin	289	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Mark	189	3.5 bpm	113 psi	109 bbls
Bulk #1:	Grant	248			
Bulk #2:	Fuzzy	91			



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

ARCADIAN RESOURCES LLC
1302 OLIVE ST
CONCORDIA, KS 66901

Invoice Date: 11/9/2019
Invoice #: 0345128
Lease Name: Green High
Well #: 1-27 (New)
County: Pratt
Job Number: ICT2754
District: El Dorado

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Cement pump	1.000	1,275.000	1,275.00
Heavy Eq Mileage	10.000	3.400	34.00
Light Eq Mileage	10.000	1.700	17.00
Ton Mileage-Minimum	1.000	255.000	255.00
HSC Blend	200.000	20.400	4,080.00
Mud flush	500.000	0.850	425.00
Cement baskets 5 1/2"	1.000	255.000	255.00
5 1/2" Turbolizers	7.000	68.000	476.00
5 1/2" Floatshoe-Flapper AFU	1.000	318.750	318.75
5 1/2" LD Plug & Baffle	1.000	297.500	297.50

Total 7,433.25

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Customer	Arcadian Resources	Lease & Well #	Green High #1-27	Date	11/9/2019
Service District	El Dorado	County & State	Pratt Co., KS	Legals S/T/R	27-27S-12W
Job Type	Longstring	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Ticket #			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
91	Fuzzy	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
289	Justin	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
189	Mark	<input checked="" type="checkbox"/> Safety Footwear	<input checked="" type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input checked="" type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments	

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
C015	Cement Pump	ea	1.00				\$1,275.00
M010	Heavy Equipment Mileage	mi	10.00				\$34.00
M015	Light Equipment Mileage	mi	10.00				\$17.00
M025	Ton Mileage- Minimum	each	1.00				\$255.00
CP031	HSC	sack	200.00				\$4,080.00
CP170	Mud Flush	gal	500.00				\$425.00
FE130	5 1/2" Cement Basket	ea	1.00				\$255.00
FE135	5 1/2 Turbolizers	ea	7.00				\$476.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00				\$318.75
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00				\$297.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?				Gross:		Net:	
<p>Based on this job, how likely is it you would recommend HSI to a colleague?</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely</p>				<p>Total Taxable \$ - Tax Rate:</p>		<p>Total: \$ 7,433.25</p>	
<p>State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.</p>				<p>Sale Tax: \$ -</p>		<p>Total: \$ 7,433.25</p>	
<p>HSI Representative: <i>Fuzzy</i></p>							

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X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Arcadian Resources	Well: Green High 1-27	Ticket: ICT 2754
City, State: Concordia, KS	County: Pratt, KS	Date: 11/9/2019
Field Rep: Butch Drylie	S-T-R: 27.27.12	Service: Longstring

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4502 ft
Casing Size:	5.5 in
Casing Depth:	4504 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	104.5 bbbls

Calculated Slurry	
Weight:	14.6 # / sx
Water / Sx:	6.97 gal / sx
Yield:	1.56 ft ³ / sx
Bbls / Ft.:	0.0309
Depth:	4502 ft
Annular Volume:	41.6 bbbls
Excess:	
Total Slurry:	41.6 bbbls
Total Sacks:	150 sx

Product	% / #	#
Class A	100.00	18800
Poz		
Gel	2.00	376
CaCl		
Gypsum	6.00	1128
Metso		
Kol Seal	5.00	1000
Fluid loss	0.50	94
Salt (bww)	10.00	1163
Total		22,561

TIME	RATE	PSI	BBLs	REMARKS
8:00 AM				On location safety meeting. Sopt in and rig up
11:15 AM				Wait on rig and run float equipment
				Hook up rig to circulate
1:40 PM				Drop ball. Ball goes through and circulate 1 hour on bottom
3:15 PM	4.0	150.0	5.0	Pump 5 BBL water
	4.0	150.0	12.0	Pump 500 gal Mudflush
	4.0	150.0	5.0	Pump 5 BBL water
	2.0	50.0	13.9	Plug Rat and Mouse holes
3:30 PM	4.0	150.0		Start cement
	4.0	150.0	41.6	Mix and pump 150 sacks HSC cement
3:40 PM				Stop. Wash pump and lines
3:45 PM	5.0	40.0	1.0	Release plug. Start displacement
		800.0		Slow rate. 800 PSI for lift
4:10 PM	3.0	1,300.0	104.5	Bump plug
				Release pressure. Floats held. Wash up truck and rig down
				Thank you

CREW	UNIT	SUMMARY		
Cementer: Justin	289	Average Rate	Average Pressure	Total Fluid
Pump Operator: Mark	189	3.75 bpm	327 psi	183 bbbls
Bulk #1: Fuzzy	91			
Bulk #2:				



DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

1302 Olive St
Concordia, KS 66901

ATTN: Sean Deenihan

Green High #1-27

27-27s-12w Pratt,KS

Start Date: 2019.11.05 @ 23:59:09

End Date: 2019.11.06 @ 07:25:39

Job Ticket #: 65451 DST #: 1

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

Printed: 2019.11.11 @ 14:57:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65451

DST#: 1

Test Start: 2019.11.05 @ 23:59:09

GENERAL INFORMATION:

Formation: **Lansing/KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:39

Time Test Ended: 07:25:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3890.00 ft (KB) To 3941.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 3941.00 ft (KB) (TVD)

1760.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8931

Inside

Press@RunDepth: 85.03 psig @ 3891.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.05

End Date:

2019.11.06

Last Calib.:

2019.11.06

Start Time:

23:59:14

End Time:

07:25:38

Time On Btm:

2019.11.06 @ 03:17:09

Time Off Btm:

2019.11.06 @ 05:27:39

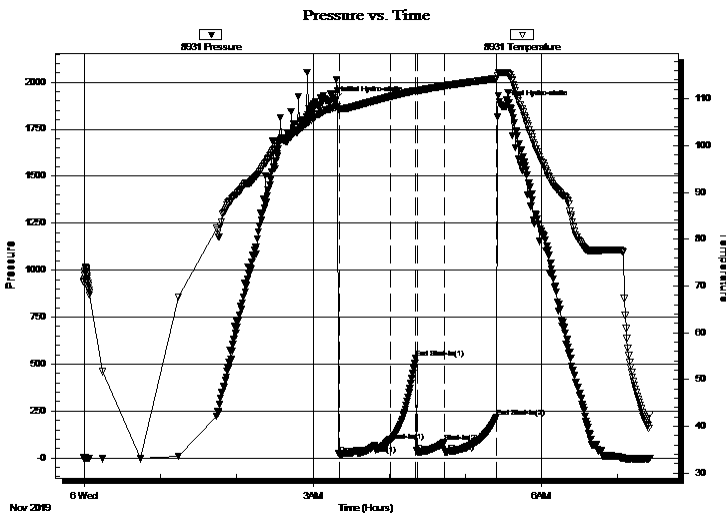
TEST COMMENT: IF: Weak Blow . Built to 1 1/2".

IS: No Blow .

FF: Weak Blow . Built to 3/4".

FS: No Blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.80	108.16	Initial Hydro-static
4	21.60	107.89	Open To Flow (1)
44	90.88	110.46	Shut-In(1)
64	532.08	111.78	End Shut-In(1)
65	28.87	111.73	Open To Flow (2)
87	85.03	112.75	Shut-In(2)
128	218.48	114.33	End Shut-In(2)
131	1881.00	115.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOspecM 2%g 98%m	0.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65451 **DST#: 1**

Test Start: 2019.11.05 @ 23:59:09

GENERAL INFORMATION:

Formation: **Lansing/KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:39

Time Test Ended: 07:25:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3890.00 ft (KB) To 3941.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 3941.00 ft (KB) (TVD)

1760.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8788 Outside

Press@RunDepth: psig @ 3891.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.05 End Date: 2019.11.06

Last Calib.: 2019.11.06

Start Time: 23:59:36 End Time: 07:26:00

Time On Btm:

Time Off Btm:

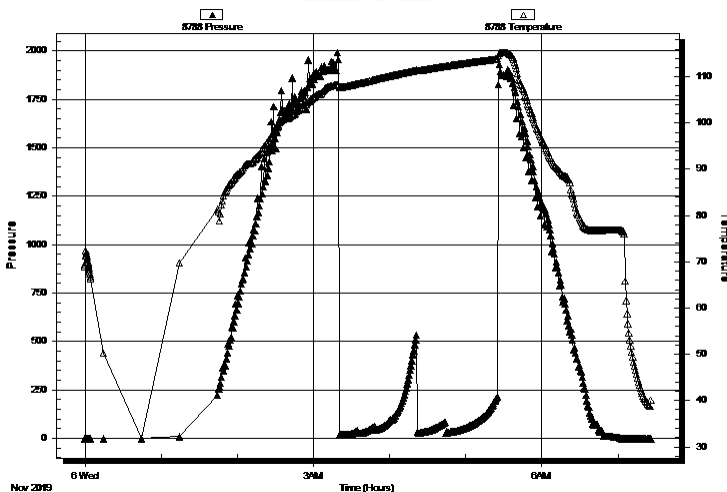
TEST COMMENT: IF: Weak Blow . Built to 1 1/2".

IS: No Blow .

FF: Weak Blow . Built to 3/4".

FS: No Blow .

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOspecM 2%g 98%m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65451

DST#: 1

ATTN: Sean Deenihan

Test Start: 2019.11.05 @ 23:59:09

Tool Information

Drill Pipe:	Length: 3768.00 ft	Diameter: 3.80 inches	Volume: 52.86 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: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 53.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3890.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	76.00 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			3866.00	
Shut In Tool	5.00			3871.00	
Hydraulic tool	5.00			3876.00	
Jars	5.00			3881.00	
Packer	4.00			3885.00	25.00 Bottom Of Top Packer
Packer	5.00			3890.00	
Stubb	1.00			3891.00	
Recorder	0.00	8931	Inside	3891.00	
Recorder	0.00	8788	Outside	3891.00	
Perforations	4.00			3895.00	
Change Over Sub	1.00			3896.00	
Blank Spacing	31.00			3927.00	
Change Over Sub	1.00			3928.00	
Perforations	10.00			3938.00	
Bullnose	3.00			3941.00	51.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-27s-12w Pratt,KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65451

DST#: 1

ATTN: Sean Deenihan

Test Start: 2019.11.05 @ 23:59:09

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:

4000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 4000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	GOspecM 2%g 98%m	0.152

Total Length: 20.00 ft Total Volume: 0.152 bbl

Num Fluid Samples: 0

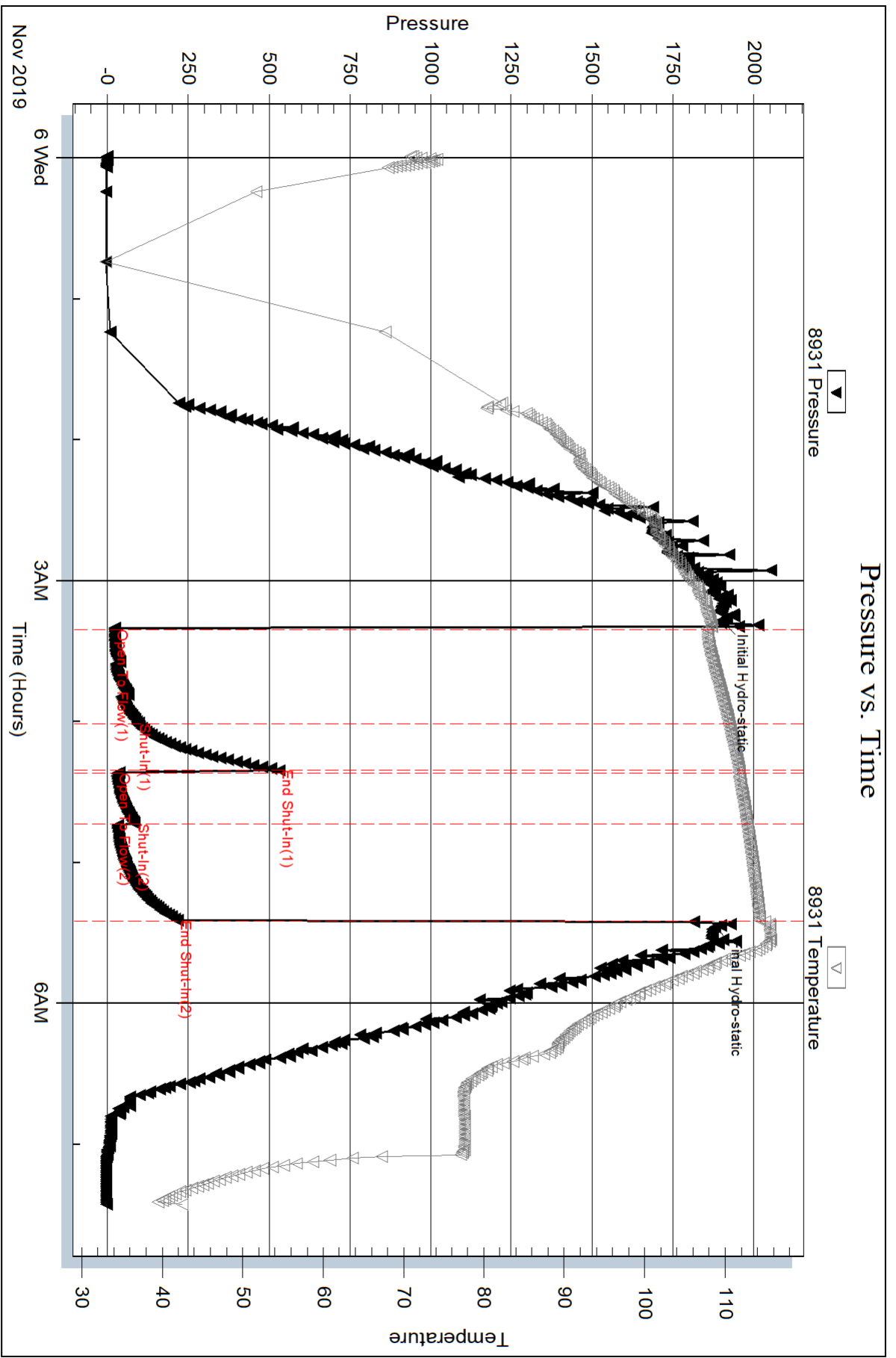
Num Gas Bombs: 0

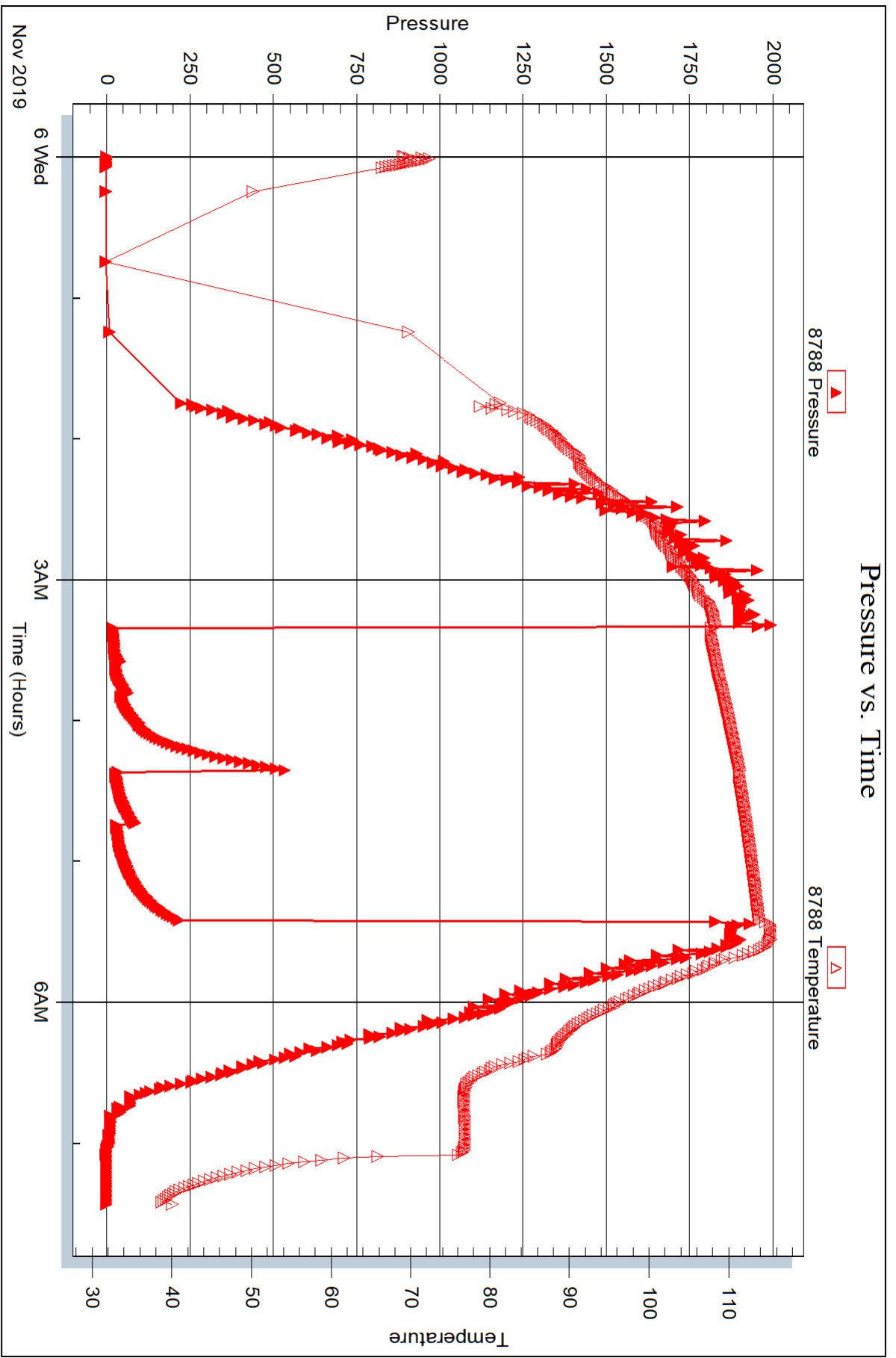
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 10# LCM.







DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

1302 Olive St
Concordia, KS 66901

ATTN: Sean Deenihan

Green High #1-27

27-27s-12w Pratt,KS

Start Date: 2019.11.06 @ 16:19:27

End Date: 2019.11.06 @ 23:06:12

Job Ticket #: 65452 DST #: 2

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

Printed: 2019.11.11 @ 14:52:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65452

DST#: 2

Test Start: 2019.11.06 @ 16:19:27

GENERAL INFORMATION:

Formation: **Marmontin**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:31:27

Time Test Ended: 23:06:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3970.00 ft (KB) To 4035.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 4035.00 ft (KB) (TVD)

1760.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8931

Inside

Press@RunDepth: 80.34 psig @ 3971.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.06

End Date: 2019.11.06

Last Calib.: 2019.11.06

Start Time: 16:19:32

End Time: 23:06:11

Time On Btm: 2019.11.06 @ 18:26:12

Time Off Btm: 2019.11.06 @ 21:00:42

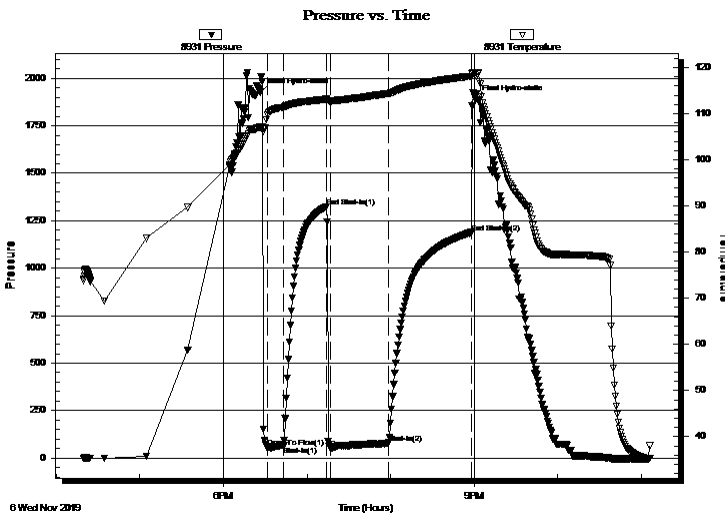
TEST COMMENT: IF: Strong Blow . B.O.B. in 45 secs. Built to 353.83".

IS: Weak Blow . Built to 1 1/2".

FF: Strong Blow . B.O.B. & G.T.S. immediately. Built to 216.52"., then Gauged Gas.

FS: Weak Blow . Built to 4.89".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.47	107.05	Initial Hydro-static
6	55.68	109.70	Open To Flow (1)
17	64.40	111.37	Shut-In(1)
48	1323.71	113.13	End Shut-In(1)
51	53.79	112.65	Open To Flow (2)
93	80.34	114.37	Shut-In(2)
152	1187.34	118.11	End Shut-In(2)
155	1886.37	118.93	Final Hydro-static

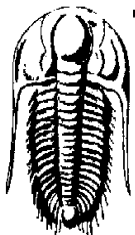
Recovery

Length (ft)	Description	Volume (bbl)
60.00	COCM 56%g 25%o 19%m	0.46
60.00	COCM 55%g 35%o 10%m	0.46
62.00	COCM 35%g 40%o 25%m	0.87
30.00	Clean Oil 100%o	0.42
0.00	G.I.P. 100%g 3739'	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.69	35.04
Last Gas Rate	0.25	6.67	33.43
Max. Gas Rate	0.25	7.69	35.04



**TRIOLOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt,KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65452

DST#: 2

Test Start: 2019.11.06 @ 16:19:27

GENERAL INFORMATION:

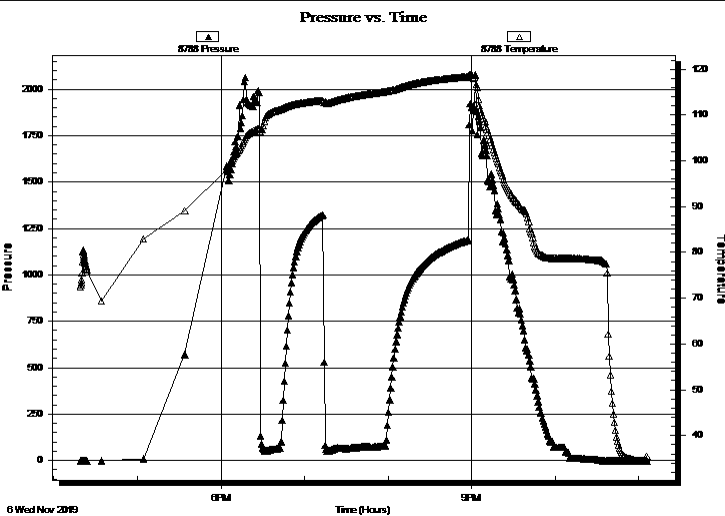
Formation: Marmontin
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:31:27
 Tester: Matt Smith
 Time Test Ended: 23:06:12
 Unit No: 68
Interval: 3970.00 ft (KB) To 4035.00 ft (KB) (TVD)
 Reference Elevations: 1772.00 ft (KB)
 Total Depth: 4035.00 ft (KB) (TVD) 1760.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 12.00 ft

Serial #: 8788

Outside

Press@RunDepth: psig @ 3971.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2019.11.06	End Date: 2019.11.06
Start Time: 16:19:13	End Time: 23:05:52
	Last Calib.: 2019.11.06
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 45 secs. Built to 353.83".
 IS: Weak Blow . Built to 1 1/2".
 FF: Strong Blow . B.O.B. & G.T.S. immediately. Built to 216.52"., then Gauged Gas.
 FS: Weak Blow . Built to 4.89".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	COCM 56%g 25%o 19%m	0.46
60.00	COCM 55%g 35%o 10%m	0.46
62.00	COCM 35%g 40%o 25%m	0.87
30.00	Clean Oil 100%o	0.42
0.00	G.I.P. 100%g 3739'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.69	35.04
Last Gas Rate	0.25	6.67	33.43
Max. Gas Rate	0.25	7.69	35.04

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65452

DST#: 2

ATTN: Sean Deenihan

Test Start: 2019.11.06 @ 16:19:27

Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 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: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3970.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	90.00 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			3946.00	
Shut In Tool	5.00			3951.00	
Hydraulic tool	5.00			3956.00	
Jars	5.00			3961.00	
Packer	4.00			3965.00	25.00 Bottom Of Top Packer
Packer	5.00			3970.00	
Stubb	1.00			3971.00	
Recorder	0.00	8931	Inside	3971.00	
Recorder	0.00	8788	Outside	3971.00	
Perforations	7.00			3978.00	
Change Over Sub	1.00			3979.00	
Blank Spacing	31.00			4010.00	
Change Over Sub	1.00			4011.00	
Perforations	21.00			4032.00	
Bullnose	3.00			4035.00	65.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-27s-12w Pratt,KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65452

DST#: 2

ATTN: Sean Deenihan

Test Start: 2019.11.06 @ 16:19:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: 9000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	COCM 56%g 25%o 19%m	0.457
60.00	COCM 55%g 35%o 10%m	0.457
62.00	COCM 35%g 40%o 25%m	0.870
30.00	Clean Oil 100%o	0.421
0.00	G.I.P. 100%g 3739'	0.000

Total Length: 212.00 ft

Total Volume: 2.205 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: MAS PRATT

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity is 34.6 @ 60 Degrees Corrected.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65452

DST#: 2

ATTN: Sean Deenihan

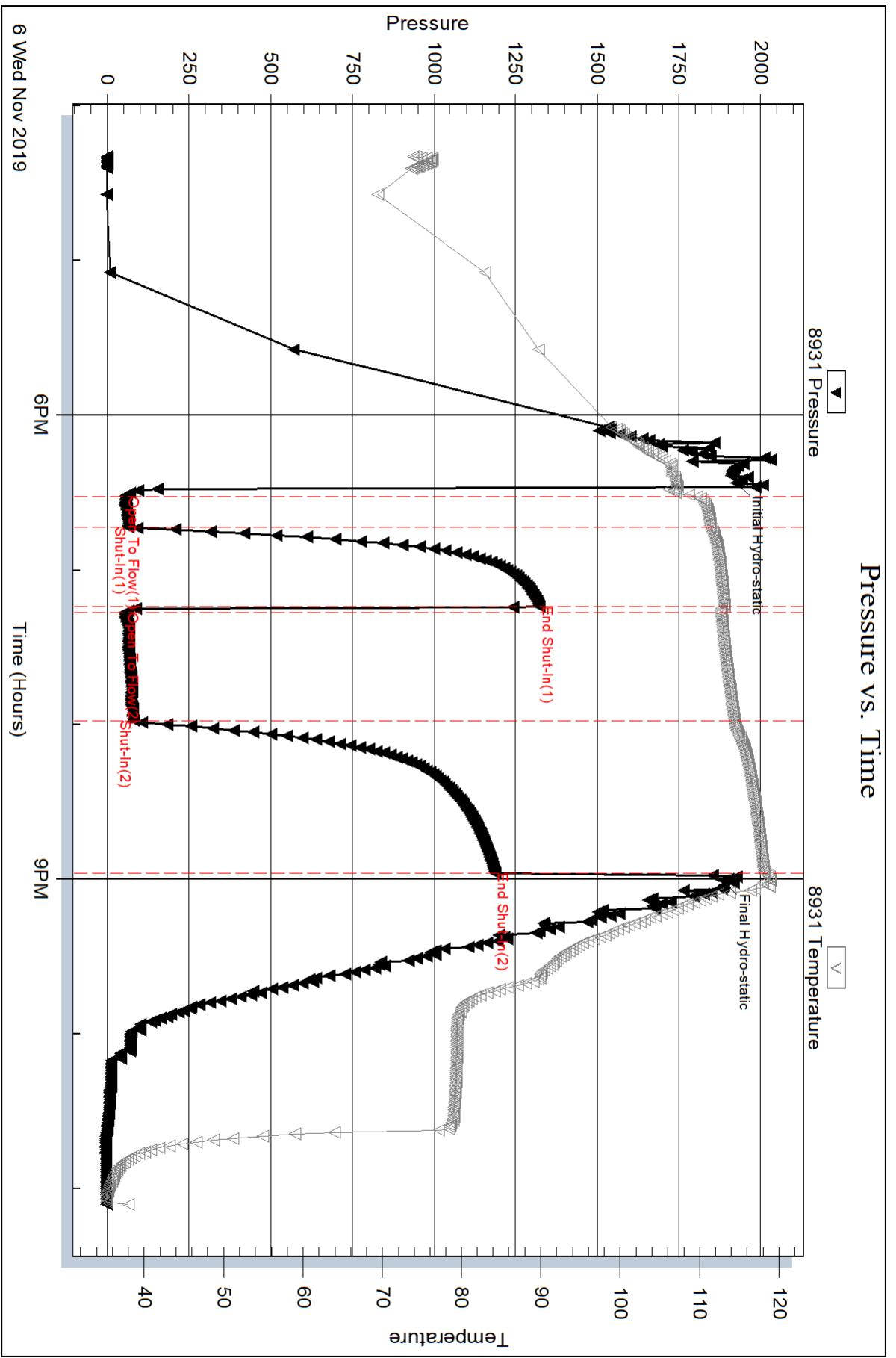
Test Start: 2019.11.06 @ 16:19:27

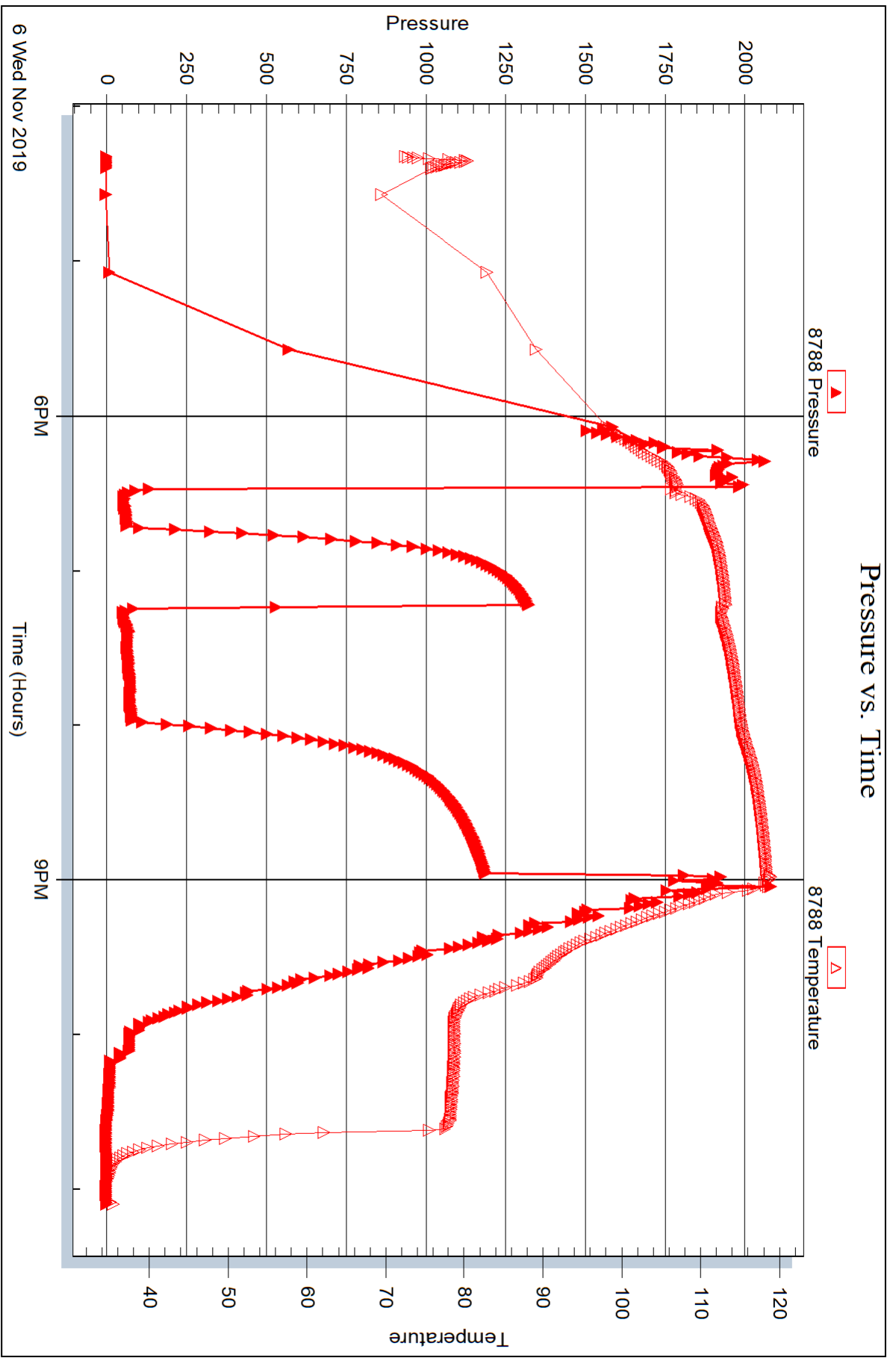
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	7.69	35.04
2	10	0.25	7.69	35.04
2	20	0.25	7.57	34.85
2	30	0.25	6.99	33.93
2	40	0.25	6.67	33.43







DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

1302 Olive St
Concordia, KS 66901

ATTN: Sean Deenihan

Green High #1-27

27-27s-12w Pratt,KS

Start Date: 2019.11.08 @ 16:17:16

End Date: 2019.11.09 @ 01:31:16

Job Ticket #: 65454 DST #: 4

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

Printed: 2019.11.11 @ 15:01:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65454

DST#: 4

Test Start: 2019.11.08 @ 16:17:16

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:41:46
 Time Test Ended: 01:31:16
 Interval: **4238.00 ft (KB) To 4374.00 ft (KB) (TVD)**
 Total Depth: 4500.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1772.00 ft (KB)
 1760.00 ft (CF)
 KB to GR/CF: 12.00 ft

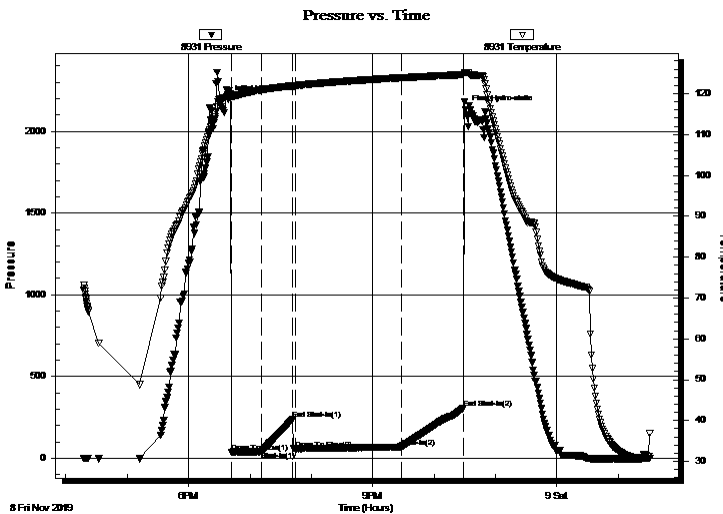
Serial #: 8931

Inside

Press@RunDepth: 69.26 psig @ 4257.00 ft (KB)
 Start Date: 2019.11.08 End Date: 2019.11.09
 Start Time: 16:17:21 End Time: 01:31:16
 Capacity: 8000.00 psig
 Last Calib.: 2019.11.09
 Time On Btm: 2019.11.08 @ 18:38:46
 Time Off Btm: 2019.11.08 @ 22:30:46

TEST COMMENT: IF: Fair Blow . Built to 7.56".
 IS: No Blow .
 FF: Strong Blow . B.O.B. in 25 mins. Built to 27.20".
 FS: Weak Blow . Surface - 1/8".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.64	119.46	Initial Hydro-static
3	34.77	119.28	Open To Flow (1)
33	40.57	120.94	Shut-In(1)
63	237.36	121.93	End Shut-In(1)
66	57.04	121.94	Open To Flow (2)
169	69.26	123.88	Shut-In(2)
230	306.96	124.68	End Shut-In(2)
232	2133.44	125.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GVSOCM 5%g 3%o 92%m	0.46
30.00	OspecM 100%m	0.23
0.00	446' G.I.P. 100%g	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC
1302 Olive St
Concordia, KS 66901
ATTN: Sean Deenihan

27-27s-12w Pratt, KS

Green High #1-27

Job Ticket: 65454 **DST#: 4**
Test Start: 2019.11.08 @ 16:17:16

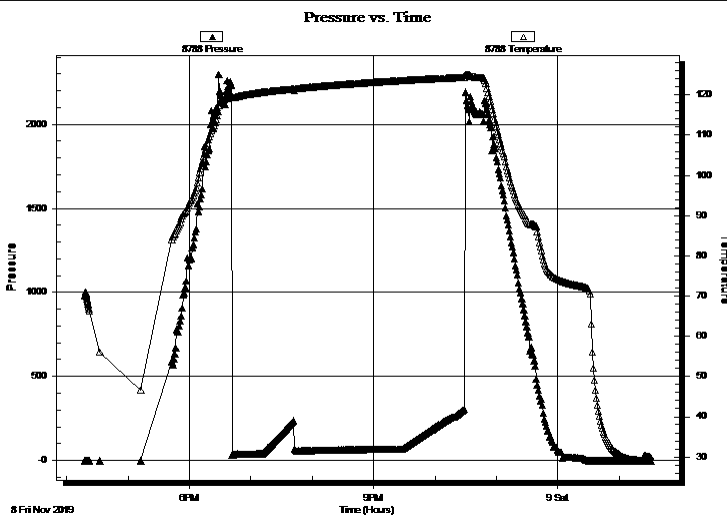
GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:41:46
Time Test Ended: 01:31:16
Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68
Interval: 4238.00 ft (KB) To 4374.00 ft (KB) (TVD)
Reference Elevations: 1772.00 ft (KB)
Total Depth: 4500.00 ft (KB) (TVD) 1760.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8788 Outside
Press@RunDepth: psig @ 4257.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.11.08 End Date: 2019.11.09 Last Calib.: 2019.11.09
Start Time: 16:17:33 End Time: 01:31:28 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair Blow . Built to 7.56".
IS! No Blow .
FF: Strong Blow . B.O.B. in 25 mins. Built to 27.20".
FS! Weak Blow . Surface - 1/8".

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GV SOCM 5%g 3%o 92%m	0.46
30.00	OspecM 100%m	0.23
0.00	446' G.I.P. 100%g	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt,KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65454

DST#: 4

Test Start: 2019.11.08 @ 16:17:16

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:46

Time Test Ended: 01:31:16

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4238.00 ft (KB) To 4374.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

1760.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8737

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.08

End Date: 2019.11.09

Last Calib.: 2019.11.09

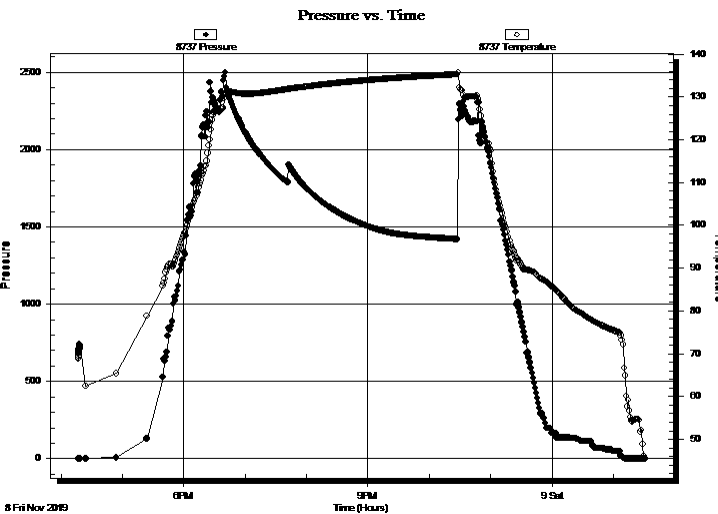
Start Time: 16:17:10

End Time: 01:30:58

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair Blow . Built to 7.56".
IS: No Blow .
FF: Strong Blow . B.O.B. in 25 mins. Built to 27.20".
FS: Weak Blow . Surface - 1/8".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GVSOCM 5%g 3%o 92%m	0.46
30.00	OspecM 100%m	0.23
0.00	446' G.I.P. 100%g	0.00

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 LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65454

DST#: 4

ATTN: Sean Deenihan

Test Start: 2019.11.08 @ 16:17:16

Tool Information

Drill Pipe:	Length: 4117.00 ft	Diameter: 3.80 inches	Volume: 57.75 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: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4238.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	262.00 ft			
Tool Length:	287.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Straddle Test

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4214.00	
Shut In Tool	5.00			4219.00	
Hydraulic tool	5.00			4224.00	
Jars	5.00			4229.00	
Packer	5.00			4234.00	25.00 Bottom Of Top Packer
Packer	4.00			4238.00	
Stubb	1.00			4239.00	
Perforations	17.00			4256.00	
Change Over Sub	1.00			4257.00	
Recorder	0.00	8931	Inside	4257.00	
Recorder	0.00	8788	Outside	4257.00	
Blank Spacing	96.00			4353.00	
Change Over Sub	1.00			4354.00	
Perforations	15.00			4369.00	
Blank Off Sub	1.00			4370.00	
Packer	3.00			4373.00	262.00 Tool Interval
Packer	3.00			4376.00	
Stubb	1.00			4377.00	
Perforations	15.00			4392.00	
Change Over Sub	1.00			4393.00	
Blank Spacing	96.00			4489.00	
Change Over Sub	1.00			4490.00	
Perforations	7.00			4497.00	
Bullnose	3.00			4500.00	1000286.00 Bottom Packers & Anchor
Total Tool Length:	287.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65454

DST#: 4

ATTN: Sean Deenihan

Test Start: 2019.11.08 @ 16:17:16

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:

8000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 8000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	GVSOCM 5%g 3%o 92%m	0.465
30.00	OspecM 100%m	0.228
0.00	446' G.I.P. 100%g	0.000

Total Length: 91.00 ft Total Volume: 0.693 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

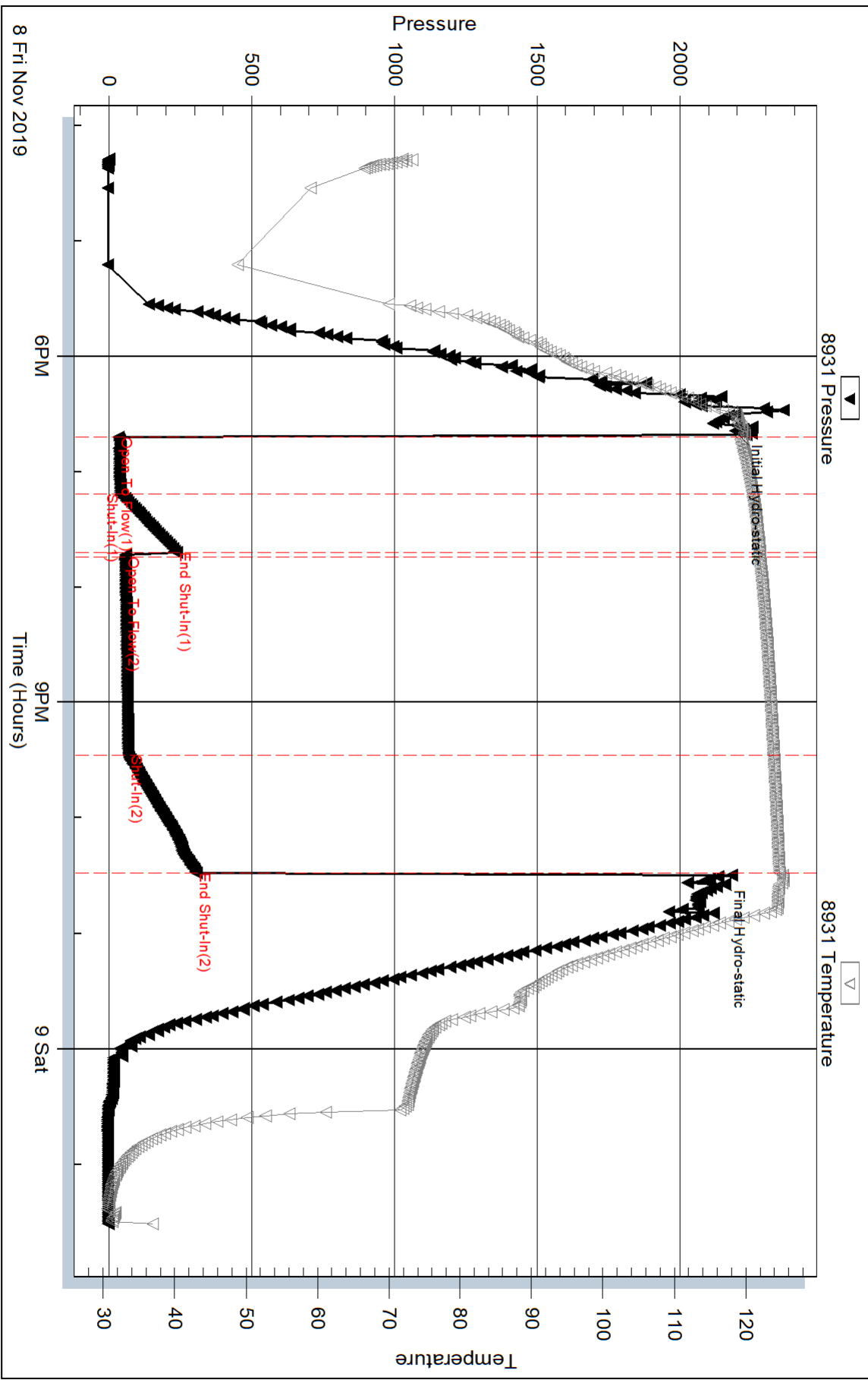
Serial #: None

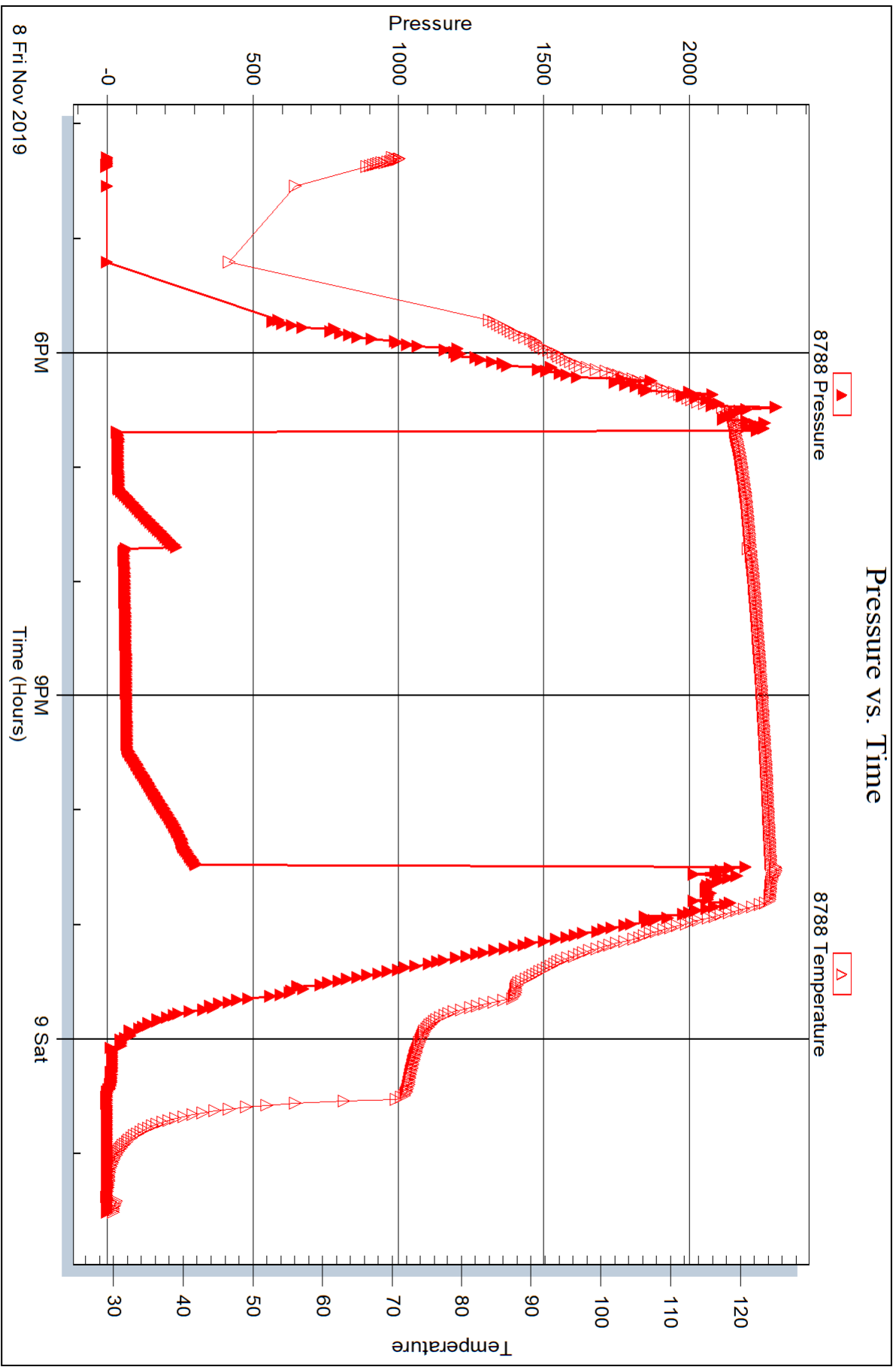
Laboratory Name:

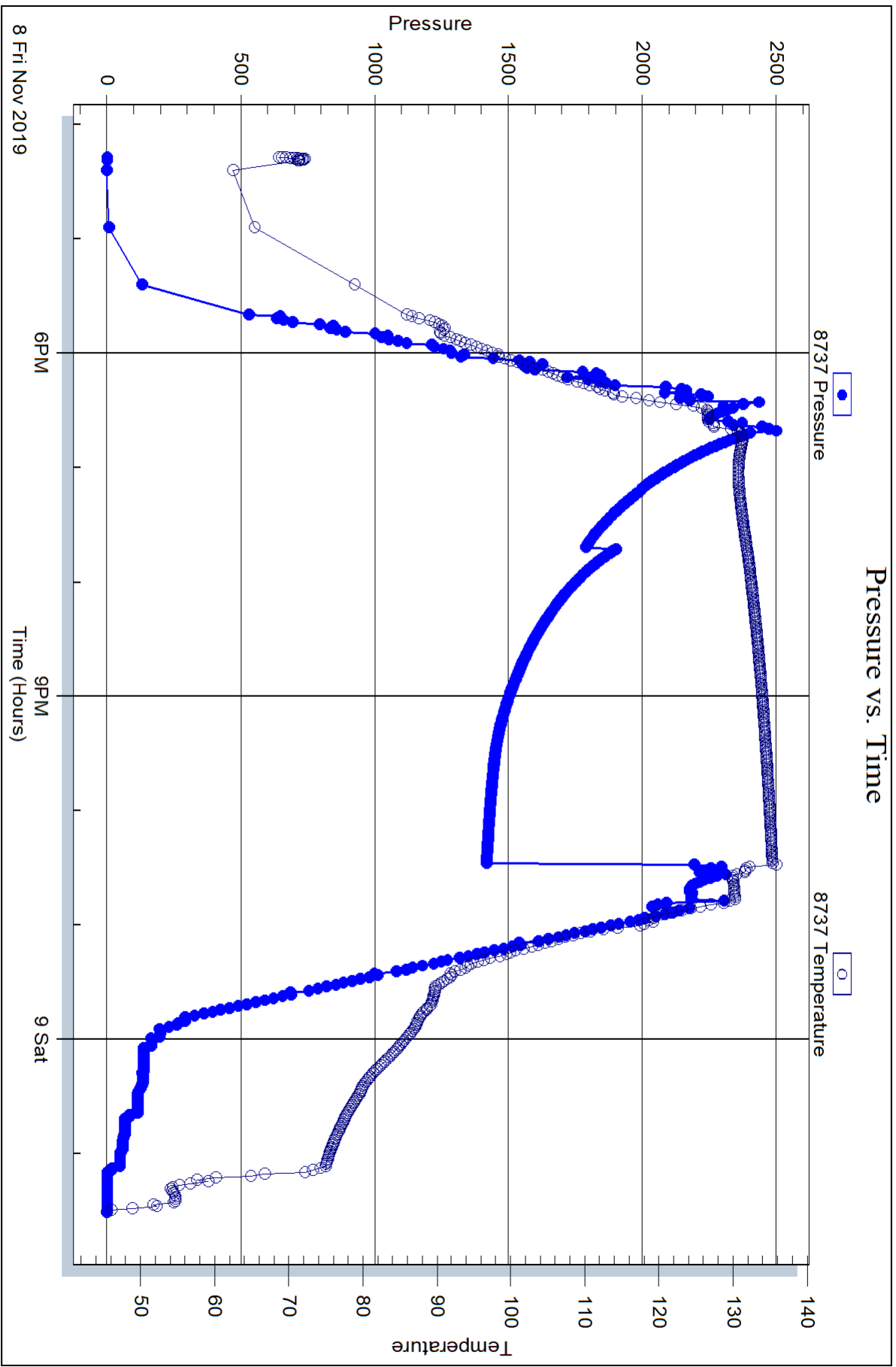
Laboratory Location:

Recovery Comments: 446 Ft of G.I.P.

Pressure vs. Time









DRILL STEM TEST REPORT

Prepared For: **Arcadian Resources LLC**

1302 Olive St
Concordia, KS 66901

ATTN: Sean Deenihan

Green High #1-27

27-27s-12w Pratt,KS

Start Date: 2019.11.07 @ 08:16:15

End Date: 2019.11.07 @ 15:02:00

Job Ticket #: 65452 DST #: 3

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

Printed: 2019.11.11 @ 14:30:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-27s-12w Pratt,KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

ATTN: Sean Deenihan

Job Ticket: 65452

DST#: 3

Test Start: 2019.11.07 @ 08:16:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:03:15

Time Test Ended: 15:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4075.00 ft (KB) To 4144.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 4144.00 ft (KB) (TVD)

1760.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8931

Inside

Press@RunDepth: 41.67 psig @ 4076.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.11.07

End Date: 2019.11.07

Last Calib.: 2019.11.07

Start Time: 08:16:20

End Time: 15:01:59

Time On Btm: 2019.11.07 @ 10:59:45

Time Off Btm: 2019.11.07 @ 13:19:15

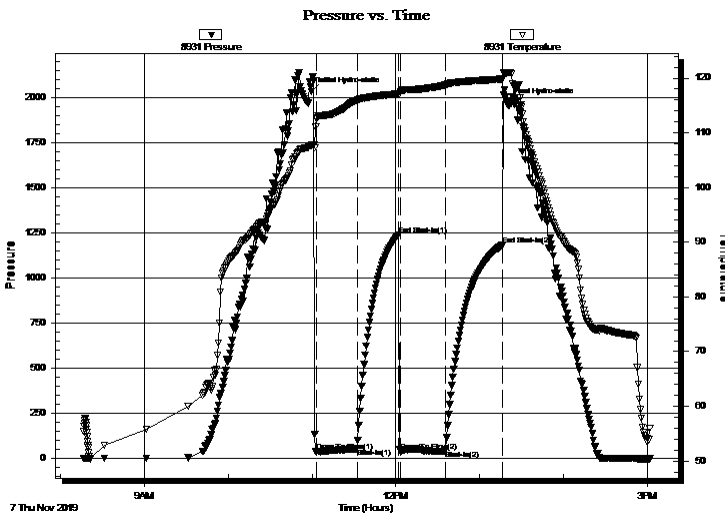
TEST COMMENT: IF: Strong Blow . B.O.B. in 30-45 secs. Built to 340.52".

IS: Weak Blow . Surface to 1/4".

FF: Strong Blow . B.O.B. & G.T.S., immediate. Built to 388" then Gauged Gas.

FSI: Weak Blow . Surface t 1/8".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.86	107.72	Initial Hydro-static
4	37.30	112.51	Open To Flow (1)
33	53.26	115.91	Shut-In(1)
63	1238.02	117.13	End Shut-In(1)
64	39.92	117.60	Open To Flow (2)
96	41.67	118.72	Shut-In(2)
137	1179.99	119.82	End Shut-In(2)
140	1971.22	120.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	GOSM 5%g 95%m	0.84
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	12.00	96.71
Last Gas Rate	0.25	1.01	24.45
Max. Gas Rate	0.38	12.00	96.71



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65452

DST#: 3

ATTN: Sean Deenihan

Test Start: 2019.11.07 @ 08:16:15

Tool Information

Drill Pipe:	Length: 3957.00 ft	Diameter: 3.80 inches	Volume: 55.51 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: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4075.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4051.00	
Shut In Tool	5.00			4056.00	
Hydraulic tool	5.00			4061.00	
Jars	5.00			4066.00	
Packer	4.00			4070.00	25.00 Bottom Of Top Packer
Packer	5.00			4075.00	
Stubb	1.00			4076.00	
Recorder	0.00	8931	Inside	4076.00	
Recorder	0.00	8788	Outside	4076.00	
Perforations	6.00			4082.00	
Change Over Sub	1.00			4083.00	
Blank Spacing	32.00			4115.00	
Change Over Sub	1.00			4116.00	
Perforations	25.00			4141.00	
Bullnose	3.00			4144.00	69.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-27s-12w Pratt,KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65452

DST#: 3

ATTN: Sean Deenihan

Test Start: 2019.11.07 @ 08:16:15

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:

8500 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 8500.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	GOSM 5%g 95%m	0.838
0.00	GTS	0.000

Total Length: 110.00 ft Total Volume: 0.838 bbl

Num Fluid Samples: 1

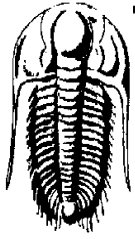
Num Gas Bombs: 1

Serial #: MASPRATT

Laboratory Name:

Laboratory Location:

Recovery Comments: G.T.S. 3847 FT



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Arcadian Resources LLC

27-27s-12w Pratt, KS

1302 Olive St
Concordia, KS 66901

Green High #1-27

Job Ticket: 65452

DST#: 3

ATTN: Sean Deenihan

Test Start: 2019.11.07 @ 08:16:15

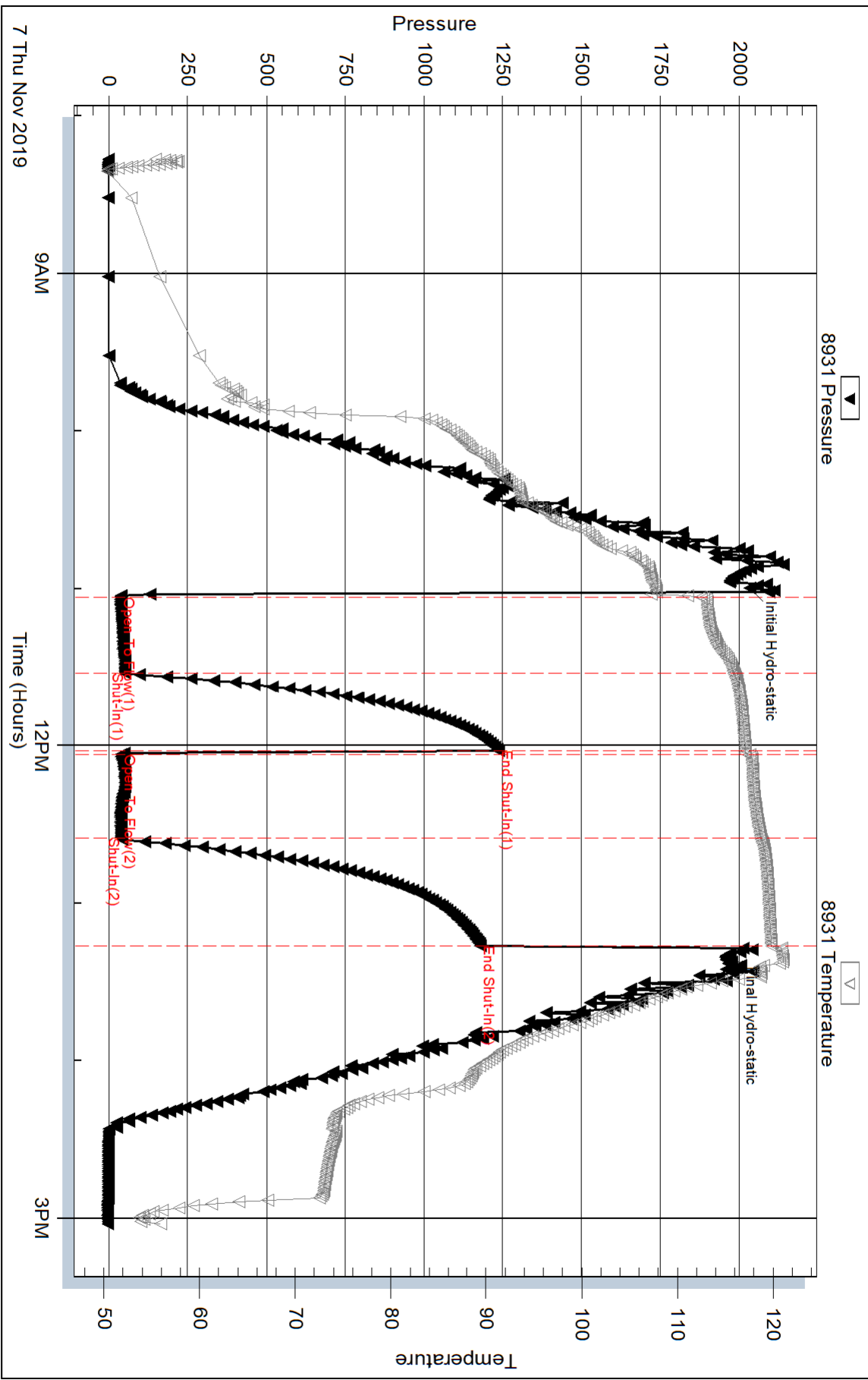
Gas Rates Information

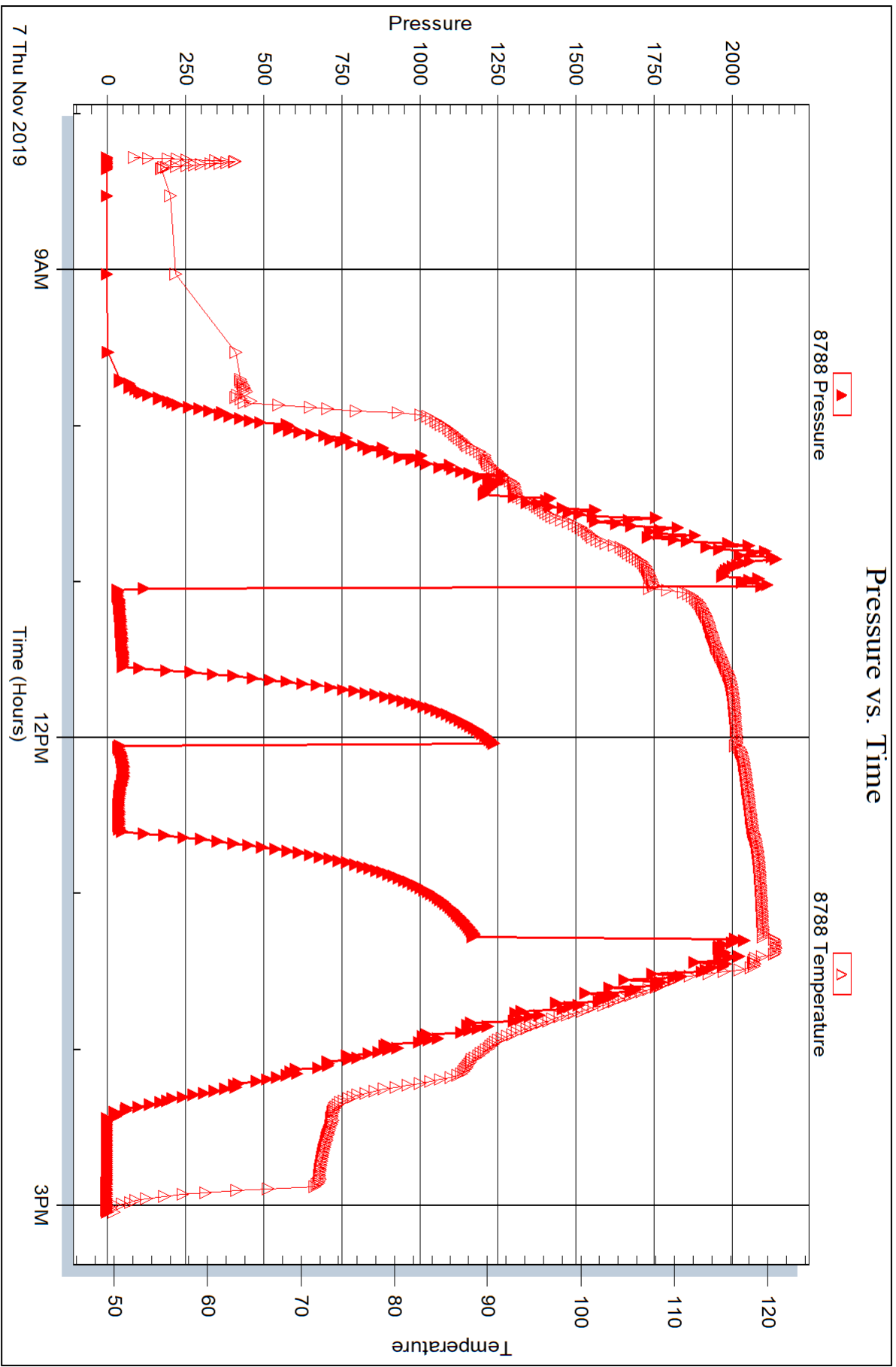
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.38	12.00	96.71
2	20	0.38	2.69	62.61
2	30	0.25	1.01	24.45

Pressure vs. Time







TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65451**

Well Name & No. Green High # 1-27 Test No. 1 Date 11/05/19
 Company Arcadian Resources, LLC Elevation 1772 KB 1760 GL
 Address 1302 Olive St. Concordia, KS. 66901
 Co. Rep / Geo. Sean Deenihan Rig Fossil #3
 Location: Sec. 27 Twp 27S Rgs. 12W Co. Pratt State KS.

Interval Tested 3890 - 3941 Zone Tested Lansing/KC.
 Anchor Length 51' Drill Pipe Run 3768 Mud Wt. 8.8
 Top Packer Depth 3885 Drill Collars Run 120 Vls 53
 Bottom Packer Depth 3890 WL Pipe Run 0 WL 8.8
 Total Depth 3941 Chlorides 4000 ppm System LCM 10⁴

Blow Description IF: Weak Blow. Built to 1 1/2".
ISI: NO Blow.
FF: Weak Blow. Built to 3/4".
FSI: NO Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>60 spec M</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' Fluid BHT 108° Gravity N/A API RW N/A °F Chlorides 4000 ppm

(A) Initial Hydrostatic <u>1901</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>2040</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2359</u>
(C) First Final Flow <u>91</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0320</u>
(D) Initial Shut-In <u>532</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0530</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0725</u>
(F) Second Final Flow <u>85</u>	<input checked="" type="checkbox"/> Mileage <u>20</u> → 20	Comments <u>Pulled Tight - Circled</u>
(G) Final Shut-In <u>219</u>	<input type="checkbox"/> Sampler	<u>1 1/2 hrs.</u>
(H) Final Hydrostatic <u>1881</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1470

Sub Total 0
 Total 1470

Approved By _____ Our Representative W. Deenihan MP/DST Disc 1

Tribolite 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. 65452

Well Name & No. Green High #1-27 Test No. 2 Date 11/06/19
 Company ARCADIAN RESOURCES, LLC Elevation 1772 KB 1760 GL
 Address 1302 Olive St. Concordia, KS. 66901
 Co. Rep / Geo. Sean Deenihan Rig Fossil #3
 Location: Sec. 27 Twp 27S Rge. 12W Co. Pratt State KS.

Interval Tested 3970 - 4035 Zone Tested Mississippi - Marmartin
 Anchor Length 65' Drill Pipe Run 3831 Mud Wt. 9.2
 Top Packer Depth 3965 Drill Collars Run 120 Vis SI
 Bottom Packer Depth 3970 Wt. Pipe Run 8 WL 11.2
 Total Depth 4035 Chlorides 9000 ppm System LCM 10#

Blow Description IF: Strong Blow. B.O.B. in 45sec. Built to 353.83"
ISI: Weak blow. Built to 1 1/2"
FF: Strong Blow. B.O.B. immediate & G.I.S.I. immediate. Built to 216.52" Caused G.B.
FSI: Weak Blow. Built to 4.89"

Rec	Feet of	%gas	%oil	%water	%mud
3739'	G.I.P.	100			
30'	Clean Oil		100		
62'	GOCM	35	40		25
60'	GOCM	55	35		10
60'	GOCM	56	25		19

Rec Total 212' Fluid BHT 109° Gravity 34.6 @ 60° API RW N/A @ — ° F Chlorides 9000 ppm

(A) Initial Hydrostatic <u>1926</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1525</u>
(B) First Initial Flow <u>56</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1619</u>
(C) First Final Flow <u>64</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1831</u>
(D) Initial Shut-In <u>1324</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2105</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2306</u>
(F) Second Final Flow <u>80</u>	<input checked="" type="checkbox"/> Mileage <u>209</u> 20	Comments _____
(G) Final Shut-In <u>1187</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1886</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool

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

Approved By _____

Our Representative Matthew J. Smith

Tritobite 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

TKT# 65452
Gas Volume Report

11/06/19

Arcadian Resources, LLC. Fossil #3
Operator

Green High #1-27 Pratt Co. (MARM)
Flow #2 Well Name and No.

2
DST No.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	M CF/D	ATMS 2000
				10	7.690	1/4"	32.75	35.04
				20	7.57	1/4"	32.22	34.85
				30	6.99	1/4"	31.24	33.93
				40	6.67	1/4"	30.72	33.43
				45	5.99	1/4"	30.12	32.35

Remarks:

Matthew J. Smith



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65453

Well Name & No. Green High # 1-27 Test No. 3 Date 11/02/19
 Company Arcadian Resources, LLC. Elevation 1772 KB 1760 GL
 Address 1302 Olive St. Concordia, KS. 66901
 Co. Rep / Geo. Sean Deenihan Rig Fossil #3
 Location: Sec. 27 Twp 27S Rge. 12W Co. Pratt State KS.

Interval Tested 4075 - 4144 Zone Tested Mississippi
 Anchor Length 69' Drill Pipe Run 3957 Mud Wt. 9.3
 Top Packer Depth 4070 Drill Collars Run 120 Vis 62
 Bottom Packer Depth 4075 Wt. Pipe Run 8 WL 10.0
 Total Depth 4144 Chlorides 8500 ppm System LCM 10#

Blow Description IF: Strong Blow. B.O.B. in 30-45 sec. Built to 340.52".
ISI: Weak Blow. Surface to 1/4".
FF: Strong Blow. B.O.B. at GITSI immediate. Built to 388" then gauged Gas.
FSI: Weak Blow. Surface to 1/8".

Rec	Feet of	%gas	%oil	%water	%mud
<u>3847</u>	<u>G.I.P.</u>	<u>100</u>			
<u>110</u>	<u>GOSM</u>	<u>5</u>			<u>95</u>

Rec Total 110' Fluid BHT 112° Gravity N/A API RW N/A @ — °F Chlorides 8500 ppm

- (A) Initial Hydrostatic 2033
- (B) First Initial Flow 37
- (C) First Final Flow 53
- (D) Initial Shut-In 1238
- (E) Second Initial Flow 40
- (F) Second Final Flow 42
- (G) Final Shut-In 1180
- (H) Final Hydrostatic 1971

- Test 1300
- Jars 250
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 209 20
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1570

- T-On Location 0732
- T-Started 0816
- T-Open 1103
- T-Pulled 1320
- T-Out 1502

- Comments _____
- EM Tool
 - Ruined Shale Packer
 - Ruined Packer
 - Extra Copies
 - Sub Total 0
 - Total 1570

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative Matthew A. Smith

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

TKT # 65453
Gas Volume Report

11/07/19

Arcadian Resources, LLC. Foss: 1[#]3
Operator

Green High #1-27 Pratt Co. (Miss)
Well Name and No.

3
DST No.

Flow 2

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D	Atmos 2000
				10	12.04	3/8"	40.23	96.71
				20	2.69	3/8"	59.80	62.61
				30	1.01	1/4"	53.03	24.45

Remarks:

(Handwritten Signature)



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65454

Well Name & No. Green High # 1-27 Test No. 4 Date 11/08/19
 Company Acadian Resources, LLC. Elevation 1772 KB 1760 GL
 Address 1302 Olive St. Concordia, KS. 66901
 Co. Rep / Geo. Sean Deenihan Rig Fossil #3
 Location: Sec. 27 Twp 27S Rge. 12W Co. Pratt State Ks.

Interval Tested 4238 - 4374 Zone Tested Viola
 Anchor Length 136' / Tail 126' Drill Pipe Run 4117 Mud Wt. 9.3
 Top Packer Depth 4233 Drill Collars Run 120 Vls 56
 Bottom Packer Depth 4238 Wt. Pipe Run 2 WL 9.6
 Total Depth 4500 Chlorides 8000 ppm System LCM 7th

Blow Description IF: Fair Blow. Built to 7.56"
ISI: No Blow.
FF: Strong Blow. B.O.B. in 25 mins. Built to 27.20"
FSI: Weak Blow. Surface to 1/8"

Rec	Feet of	%gas	%oil	%water	%mud
<u>446</u>	<u>G.I.Pi</u>	<u>100</u>			
<u>30</u>	<u>Dspec m</u>				<u>100</u>
<u>61</u>	<u>GVSOCm</u>	<u>5</u>	<u>3</u>		<u>92</u>

Rec Total 91' fluid BHT 119° Gravity N/A API RW N/A @ - °F Chlorides 8000 ppm
 (A) Initial Hydrostatic 2194 Test 1300 T-On Location 1500
 (B) First Initial Flow 35 Jars 250 T-Started 1617
 (C) First Final Flow 41 Safety Joint _____ T-Open 1841
 (D) Initial Shut-In 237 Circ Sub _____ T-Pulled 2245
 (E) Second Initial Flow 57 Hourly Standby _____ T-Out 0131
 (F) Second Final Flow 69 Mileage 207 20 +20 Comments @ 3:20 pm went to get more pens @ shop.
 (G) Final Shut-In 307 Sampler _____ Geo Request
 (H) Final Hydrostatic 2133 Straddle 600 EM Tool _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 105 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Sub Total 2190 Accessibility _____
 Total 2190 MP/DST Disc't _____

Approved By _____ Our Representative Matthew S. [Signature]

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