

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Arcadian Resources, LLC
Well Name	Bateman 1
Doc ID	1273178

Tops

Name	Top	Datum
Anhydrite	2270	645
Anhydrite BASE	2290	625
Topeka	3673	-758
Heebner	3909	-994
Lansing	3950	-1035
Muncie Creek	4124	-1209
Stark Shale	4211	-1296
Hushpuckney	4258	-1343
Base KC	4302	-1387
Marmaton	4345	-1430
Pawnee	4420	-1505
Ft. Scott	4464	-1549
Cherokee Shale	4488	-1573
Johnson	4528	-1613
Mississippian	4559	-1644



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 10/26/2015
 Invoice # 1644
 P.O.#:
 Due Date: 11/25/2015
 Division: Russell

Invoice

ENTERED

Contact:

Address/Job Location:

Acadian Resources

Reference:

BATEMAN 1 SEC 25-17-31

Description of Work:

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 606.13	No				
Common-Class A	144	\$ 1,982.63	Yes				
Calcium Chloride	7	\$ 323.16	Yes				
Pump Truck Mileage-Job to Nearest Camp	55	\$ 250.90	No				
POZ Mix-Standard	36	\$ 209.01	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	55	\$ 159.66	No				
Bulk Truck Matl-Material Service Charge	190	\$ 157.59	No				
Premium Gel (Bentonite)	3	\$ 40.51	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,729.58

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (93.24)

SubTotal for Taxable Items: \$ 2,491.42

SubTotal for Non-Taxable Items: \$ 1,144.92

Total: \$ 3,636.34

Tax: \$ 211.77

8.50% Sheridan County Sales Tax

Amount Due: \$ 3,848.11

Applied Payments:

Balance Due: \$ 3,848.11

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

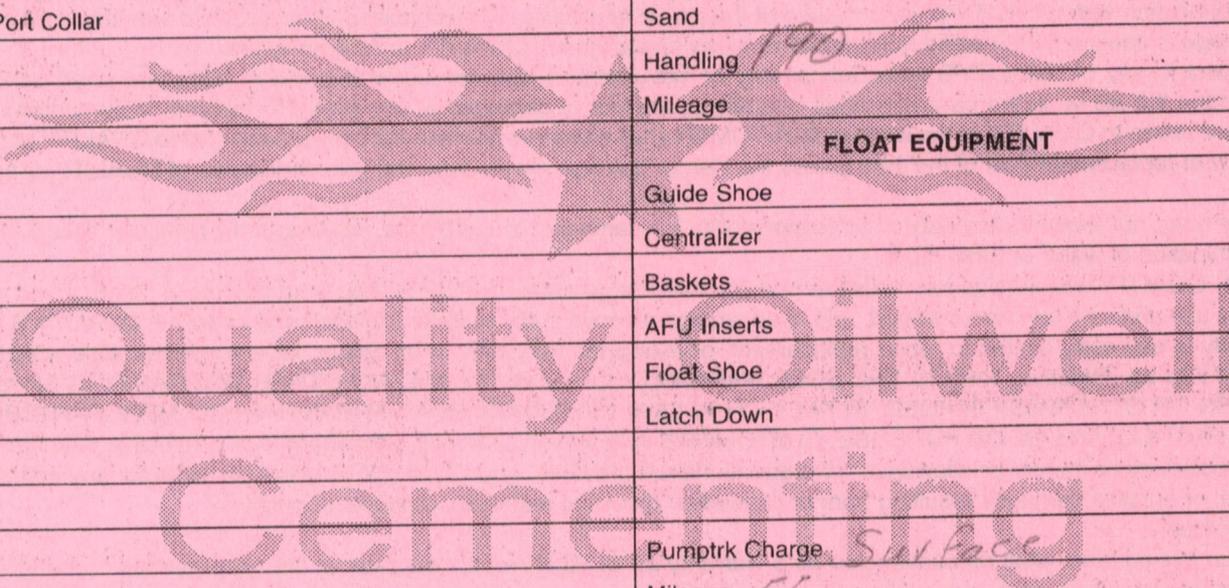
Federal Tax I.D.# 20-2886107

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

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

No. 164A

Date	10-26-15	Sec.	25	Twp.	17	Range	31	County	Scott	State	Ks	On Location		Finish	5:45 PM
Lease								Location		Healy Ks - 5 1/2 W to Venison Rd					
Bateman								Well No.		1					
Contractor								Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Southwind								8		45' to 190 Rd, 1 3/4 E, N Hato					
Type Job								Charge To		Surface					
Hole Size								T.D.		12 1/4" 339'					
Csg.								Depth		8 3/8" 338'					
Tbg. Size								Depth		Street 208 E 32nd					
Tool								City		Hays State Ks 67601					
Cement Left in Csg.								Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
15'								15'		Cement Amount Ordered 180 80/20 30% CC 2% Gel					
Meas Line								Displace		20 1/2 BLS					
EQUIPMENT								Common		144					
Pumptrk								No.		144					
20								Cementer		36					
								Helper		Craig					
Bulktrk								No.		3					
81								Driver		Nick					
								Driver		7					
Bulktrk								No.		7					
p.u.								Driver		Rick					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt		Cement dol. Circulate					
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling		190					
								Mileage							
FLOAT EQUIPMENT								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge		Surface					
								Mileage		55					
								Tax							
								Discount							
								Total Charge							
Signature															





QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 11/5/2015
 Invoice # 1285

P.O.#:

Due Date: 12/5/2015

Division: Russell

Invoice

Contact:

Address/Job Location:

Accadian Resources

Reference:

BATEMAN 1

Description of Work:

PROD STRING 2 STAGE BOTTOM STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 808.18	No	Bulk Truck Matl-Material Service Charge	199	\$165.05	No
Two Stage Cement Collar, 5 1/2"	1	\$ 2,969.29	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	55	\$159.66	No
Pro-C Cement	175	\$ 2,612.65	Yes	Flo Seal	43	\$71.33	Yes
Gilsonite	875	\$ 1,088.60	Yes				
5 1/2" Basket	2	\$ 427.98	Yes				
5 1/2" Turbolizer	8	\$ 384.85	Yes				
Mud Clear	500	\$ 306.88	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 253.80	Yes				
Pump Truck Mileage-Job to Nearest Camp	55	\$ 250.90	No				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 185.79	Yes				
Salt (Fine)	16	\$ 185.26	Yes				

SubTotal: \$ 9,870.22

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (246.76)

SubTotal for Taxable Items: \$ 8,274.26

SubTotal for Non-Taxable Items: \$ 1,349.20

Total: \$ 9,623.46

Tax: \$ 703.31

8.50% Scott County Sales Tax

Amount Due: \$ 10,326.77

Applied Payments:

Balance Due: \$ 10,326.77

Thank You For Your Business!

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1285

Date	11-4-15	Sec.	26	Twp.	17	Range	31	County	Scott	State	Ks	On Location		Finish	10:30pm			
Lease	Bateman							Well No.	1	Location Heaty, Ks - 5 1/2 W to Venison Rd, 4S								
Contractor	Southwind							8	Owner to 190 Rd, 1 3/4 E, N/S									
Type Job	Bottom Stage							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	7 7/8"							T.D.	Charge To Accadian Resources									
Csg.	5 1/2" New 17#							Depth	4700'									
Tbg. Size								Depth.	4696.58'									
Tool	DU Tool							Depth	2282'									
Cement Left in Csg.	29.66							Shoe Joint	29.66'									
Meas Line	Displace 108 1/4 BLS							The above was done to satisfaction and supervision of owner agent or contractor.										
EQUIPMENT													Cement Amount Ordered 175 @ Pro-C 10% Salt					
Pumptrk	20	No.	Cementer	Nick		Rick		Common 175 @ pro-c										
Bulktrk	9	No.	Driver	Travis		Craig		Poz. Mix										
Bulktrk	19	No.	Driver	Billy				Gel.										
JOB SERVICES & REMARKS													Calcium					
Remarks:	Salt 16													Hulls				
Rat Hole	Flowseal 43#																	
Mouse Hole	Kol-Seal 875#																	
Centralizers	1, 3, 5, 15, 25, 57, 62, 72							Mud CLR 48 500 gal										
Baskets	2, 58							CFL-117 or CD110 CAF 38										
D/V or Port Collar	58 -							Sand										
pipe on bottom break Circulation													Handling 199					
pump 500 gal mud clear 48													Mileage					
mix 17.5 sx Cement, Shut down													FLOAT EQUIPMENT					
Wash pump + lines Released plug													Guide Shoe					
+ Displaced w/ BLS													Centralizer 8					
Released + held. Land plug to													Baskets 2					
2000 #													AFU Inserts					
Lift pressure 900 #													Float Shoe 1					
Drop dart open tool w/ #													Latch Down DU Tool Assy					
Break. Circulation													Not of Hand					
BLS of mud 55 1/4							Pumptrk Charge						prod string 2 stage					
BLS of water 53							Mileage 55						Stage					
X Signature 													Tax					
													Discount					
													Total Charge					



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 11/5/2015
 Invoice # 1914
 P.O.#:
 Due Date: 12/5/2015
 Division: *Russell*

Invoice

Contact:

Address/Job Location:

Acadian Resources

Reference:
 BATEMAN 1

Description of Work:
 PROD STRIING 2 STAGE TOP STAGE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 808.18	No				
Multi Density- 80/20	450	\$ 6,531.62	Yes				
Flo Seal	225	\$ 373.24	Yes				
Bulk Truck Matl-Material Service Charge	450	\$ 373.24	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	55	\$ 159.66	No				

Invoice Terms:

Net 30

	SubTotal:	\$	8,245.93
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(206.15)
<hr/>			
	SubTotal for Taxable Items:	\$	6,732.23
	SubTotal for Non-Taxable Items:	\$	1,307.55
<hr/>			
	Total:	\$	8,039.78
	Tax:	\$	572.24
	Amount Due:	\$	8,612.02
	Applied Payments:		
	Balance Due:	\$	8,612.02

8.50% Scott County Sales Tax

Thank You For Your Business!

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1914

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-5-15	26	17	31	Scott	KS		1:15 A.M.

Location Heavy 5/2w to Jensen Rd 4s 190 Rd

Lease Rateman Well No. 1 Owner 1/2 E Ninto

Contractor Southwind #5
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job DV Tool Tap Stage cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8 T.D. 4700 Charge To Acadian Resources

Csg. 5 1/2 17# Depth 4696.58 Street

Tbg. Size Depth City State

Tool DV Tool Depth 2282 The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered 450 80/20 QMDC 1/2 #FB

Meas Line Displace 53BL

EQUIPMENT		Common
Pumptrk <u>20</u> No.	Cement Helper <u>Craig</u>	<u>430 QMDC - 80/20</u>
Bulktrk No.	Driver <u>Nick</u>	Poz. Mix
Bulktrk <u>19</u> No.	Driver <u>Bill</u>	Gel.
	Driver	Calcium
	Driver	Hulls

JOB SERVICES & REMARKS

Remarks: Salt

Rat Hole 305K Flowseal 225#

Mouse Hole 155K Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

DV Tool 2282 Handling 450

Phg Rathole & mouse hole. Mileage

Cement DV Tool with 4055K

Displace Phg

Cement Circulated.

Phg 1 and 1500#

QUALITY OILWELL CEMENTING

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

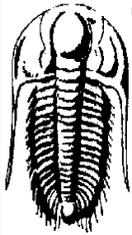
Latch Down

Pumptrk Charge Prod String 2 stage Tax

Mileage N/A Discount

X Signature William Landers

Total Charge



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-17-31 Scott, Ks

208 E. 32nd
Hays, Ks 67601

Bateman #1

Job Ticket: 61783

DST#: 1

ATTN: Eli Felts

Test Start: 2015.11.01 @ 00:50:40

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:40

Time Test Ended: 07:30:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4215.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 2915.00 ft (KB)

Total Depth: 4248.00 ft (KB) (TVD)

2905.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press @ Run Depth: 656.98 psig @ 4216.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.01 End Date: 2015.11.01

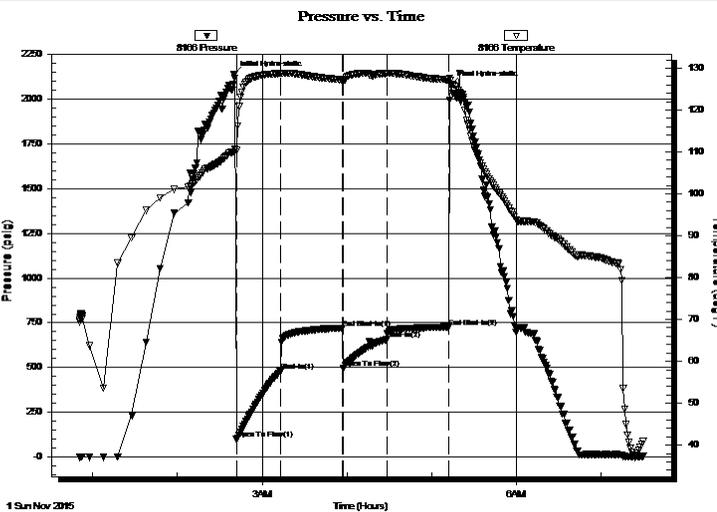
Last Calib.: 2015.11.01

Start Time: 00:50:45 End Time: 07:30:09

Time On Btm: 2015.11.01 @ 02:40:10

Time Off Btm: 2015.11.01 @ 05:13:40

TEST COMMENT: IF: 1/4 built to 3 died to 1/4.
IS: No return.
FF: Surface blow died in 2 min. Flushed tool no blow.
FS: No return. Had a loose hammer union.



PRESSURE SUMMARY

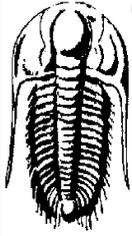
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.75	110.06	Initial Hydro-static
2	98.09	110.34	Open To Flow (1)
33	481.59	128.74	Shut-In(1)
77	720.69	127.20	End Shut-In(1)
78	497.38	126.89	Open To Flow (2)
108	656.98	128.72	Shut-In(2)
152	727.74	127.21	End Shut-In(2)
154	2079.99	127.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	mcw 95%w 5%m	7.83
248.00	mcw oil spots 80%w 20%m	3.48
603.00	ocw m 2%o 48%w 50%m	8.46

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-17-31 Scott, Ks

208 E. 32nd
Hays, Ks 67601

Bateman #1

Job Ticket: 61783

DST#: 1

ATTN: Eii Felts

Test Start: 2015.11.01 @ 00:50:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	mcw 95%w 5%m	7.827
248.00	mcw oil spots 80%w 20%m	3.479
603.00	ocw m 2%o 48%w 50%m	8.459

Total Length: 1409.00 ft Total Volume: 19.765 bbl

Num Fluid Samples: 0

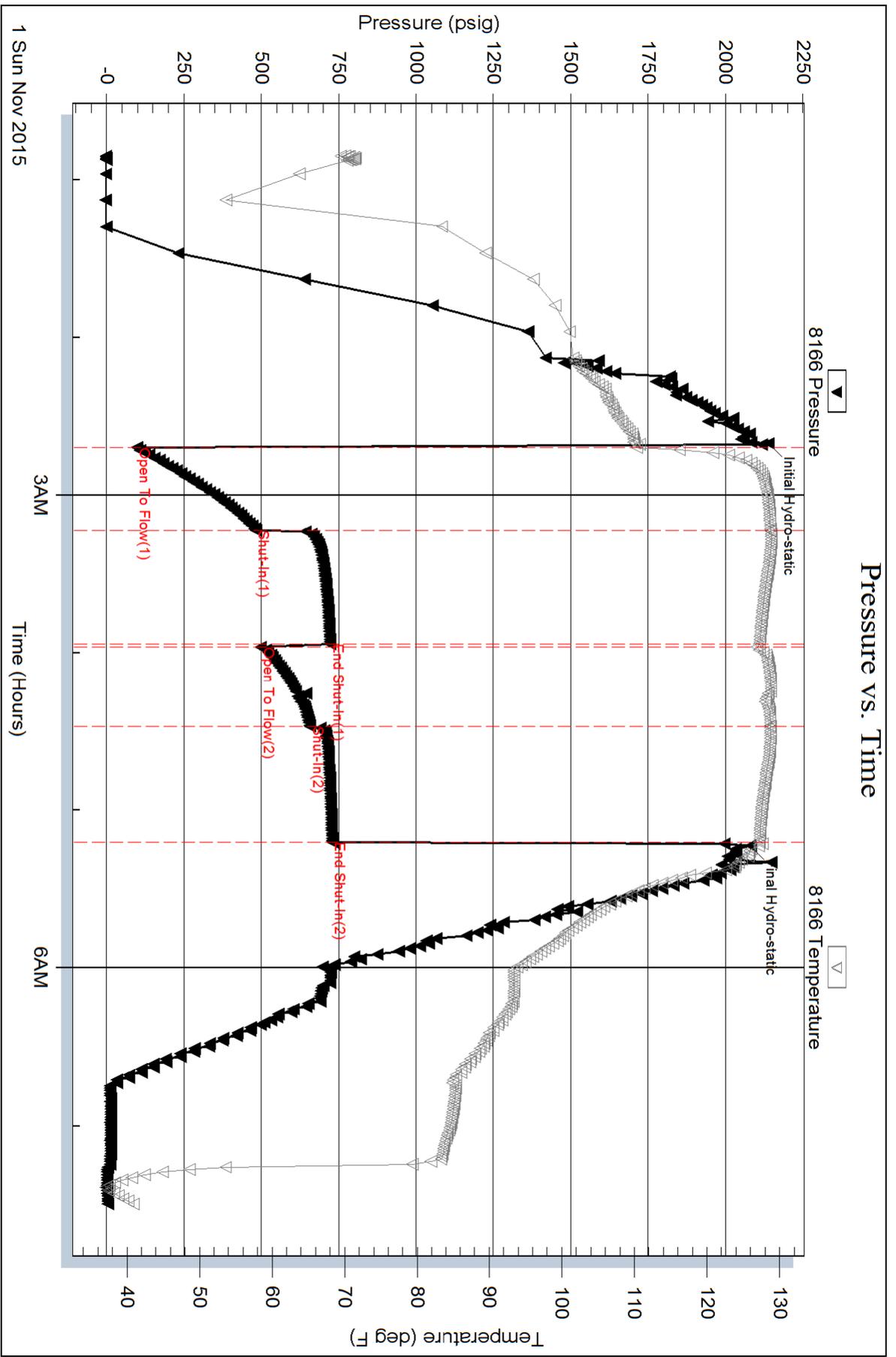
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .39@42=31000





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-17-31 Scott, Ks

208 E. 32nd
Hays, Ks 67601

Bateman #1

Job Ticket: 61784

DST#: 2

ATTN: Eli Felts- Garett Din

Test Start: 2015.11.02 @ 02:00:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:31:00

Time Test Ended: 08:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4362.00 ft (KB) To 4382.00 ft (KB) (TVD)

Reference Elevations: 2915.00 ft (KB)

Total Depth: 4382.00 ft (KB) (TVD)

2905.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 101.94 psig @ 4363.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.02

End Date:

2015.11.02

Last Calib.: 2015.11.02

Start Time: 02:00:05

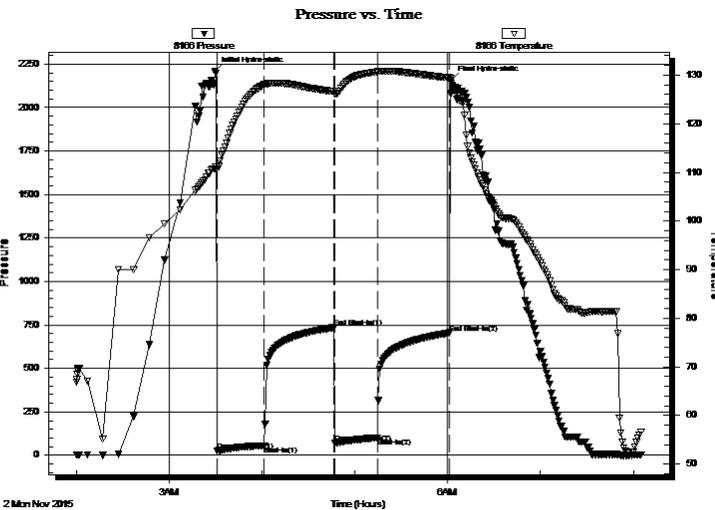
End Time:

08:04:59

Time On Btm: 2015.11.02 @ 03:29:30

Time Off Btm: 2015.11.02 @ 06:02:30

TEST COMMENT: IF: 1/4 blow built to 8.
IS: No return.
FF: Surface blow built to 5.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.46	110.75	Initial Hydro-static
2	26.33	110.73	Open To Flow (1)
32	55.67	128.03	Shut-In(1)
77	734.29	126.63	End Shut-In(1)
78	71.41	126.10	Open To Flow (2)
105	101.94	130.71	Shut-In(2)
152	703.87	129.45	End Shut-In(2)
153	2157.87	128.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mcw 85%w 15%m	0.87
124.00	ocw m 1%o 49%w 50%m	1.74
1.00	free oil 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-17-31 Scott, Ks

208 E. 32nd
Hays, Ks 67601

Bateman #1

Job Ticket: 61784

DST#: 2

ATTN: Eli Felts- Garett Din

Test Start: 2015.11.02 @ 02:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	mcw 85%w 15%m	0.870
124.00	ocw m 1%o 49%w 50%m	1.739
1.00	free oil 100%m	0.014

Total Length: 187.00 ft Total Volume: 2.623 bbl

Num Fluid Samples: 0

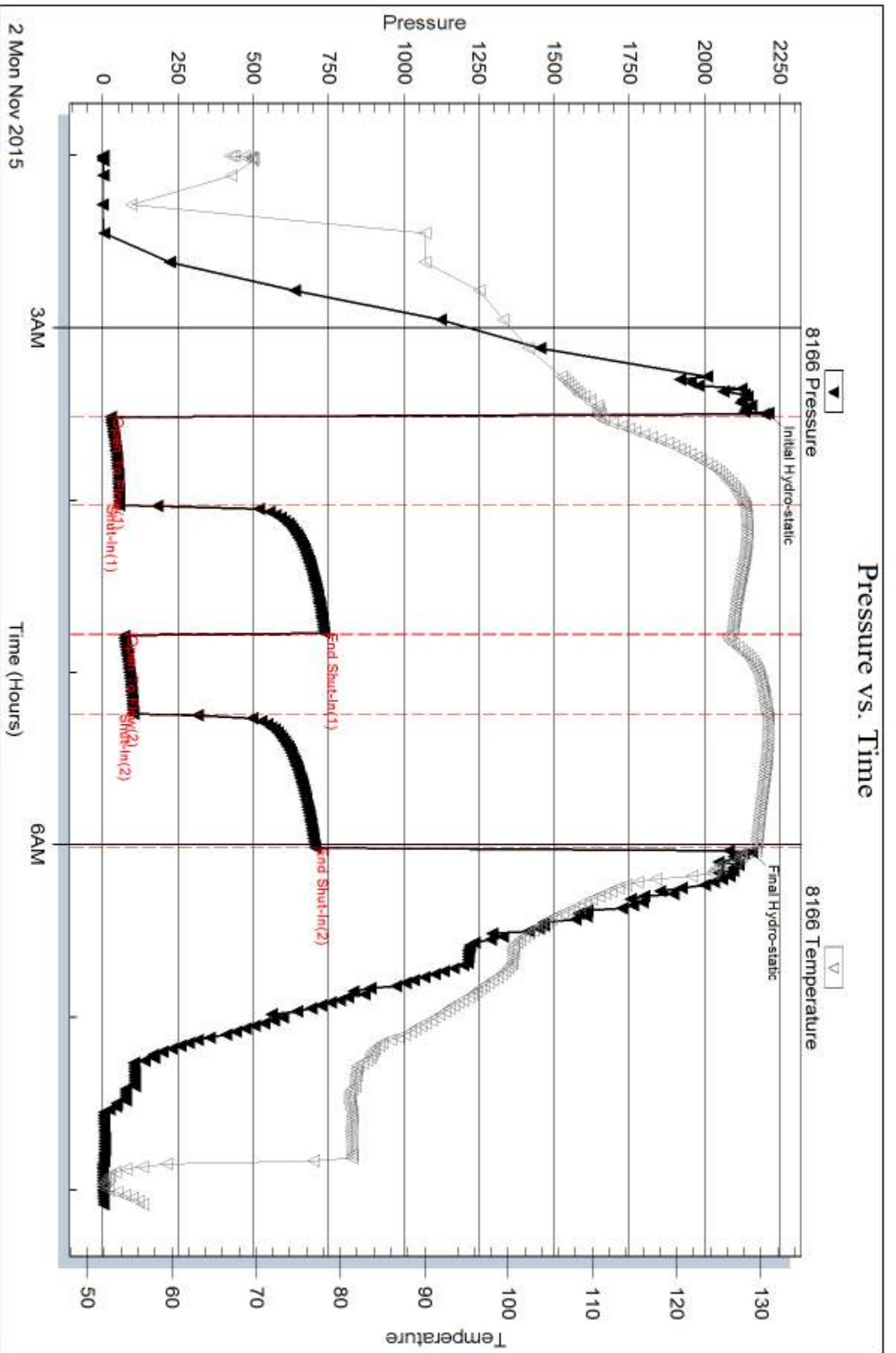
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .31@55=28000





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Arcadian Resources LLC

27-17-31 Scott, Ks

208 E. 32nd
Hays, Ks 67601

Bateman #1

Job Ticket: 61785

DST#: 3

ATTN: Eli Felts- Garett Din

Test Start: 2015.11.03 @ 03:13:57

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:56:27

Time Test Ended: 11:19:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4501.00 ft (KB) To 4550.00 ft (KB) (TVD)

Reference Elevations: 2915.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

2905.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 584.26 psig @ 4502.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.03

End Date:

2015.11.03

Last Calib.:

2015.11.03

Start Time: 03:14:02

End Time:

11:19:56

Time On Btm:

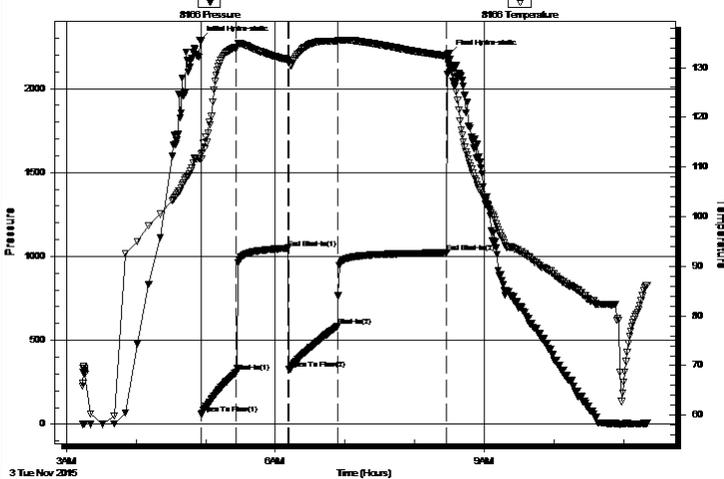
2015.11.03 @ 04:54:57

Time Off Btm:

2015.11.03 @ 08:29:27

TEST COMMENT: IF: BOB in 3 1/2 min.
IS: Surface blow built to 3.
FF: BOB in 4 min.
FS: Surface blow built to 1/2.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2289.22	111.64	Initial Hydro-static
2	58.45	111.64	Open To Flow (1)
32	311.83	134.11	Shut-In(1)
76	1049.31	131.55	End Shut-In(1)
77	330.16	131.14	Open To Flow (2)
119	584.26	135.38	Shut-In(2)
213	1021.68	132.35	End Shut-In(2)
215	2207.89	130.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	gocm 40%g 10%o 50%m	3.48
620.00	mcco 40%g 55%o 5%m	8.70
651.00	go 40%g 60%o	9.13
0.00	279 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Arcadian Resources LLC

27-17-31 Scott, Ks

208 E. 32nd
Hays, Ks 67601

Bateman #1

Job Ticket: 61785

DST#: 3

ATTN: Eli Felts- Garett Din

Test Start: 2015.11.03 @ 03:13:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	gocm 40%g 10%o 50%m	3.479
620.00	mcgo 40%g 55%o 5%m	8.697
651.00	go 40%g 60%o	9.132
0.00	279 GIP	0.000

Total Length: 1519.00 ft

Total Volume: 21.308 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 31@80=29

