



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1258450
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1258450

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Advantage Resources, Inc.
Well Name	Frank Pettijohn 1
Doc ID	1258450

All Electric Logs Run

Compensated Neutron/Density
Microlog
Phased Induction
Sonic

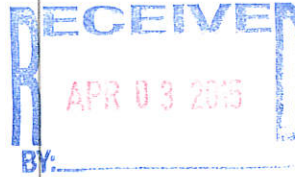
Elite Cementing & Acidizing of KS, LLC

810 E 7th, PO Box 92
Eureka, KS 67045



Date	Invoice #
3/31/2015	2209

Bill To	
Advantage Resources Inc. 1775 Sherman St., Suite 1700 Denver, CO 80203	
Customer ID#	1154



Job Date	3/30/2015
Lease Information	
Frank Pellijon #1	
County	Elk
Foreman	SM

Item	Description	Qty	Terms	Net 30
			Rate	Amount
C101	Cement Pump-Surface	1	840.00	840.00
C107	Pump Truck Mileage (one way)	20	3.95	79.00
C200	Class A Cement-94# sack	125	15.00	1,875.00T
C205	Calcium Chloride	350	0.60	210.00T
C206	Gel Bentonite	235	0.20	47.00T
C209	Flo-Seal	25	2.25	56.25T
C108A	Ton Mileage (min. charge)	1	345.00	345.00

We appreciate your business!

Phone #	Fax #
620-583-5561	620-583-5524
E-mail	
rene@elitecementing.com	

Subtotal	\$3,452.25
Sales Tax (7.15%)	\$156.46
Total	\$3,608.71
Payments/Credits	\$0.00
Balance Due	\$3,608.71

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report

Ticket No. 2209
 Foreman Steve Mead
 Camp EuroKaks

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
3-30-13	1104	Frank Pelliachon #1	20	28S	12E	EIK	KS	
Customer Advantage Resources Inc			Safety Meeting		Unit #	Driver	Unit #	Driver
Mailing Address 1775 Sherman St. Ste 1700					104	Alan M.		
City Denver					110	Chris B.		
State CO.		Zip Code 80203						

Job Type Surface Hole Depth 236' Slurry Vol. _____ Tubing _____
 Casing Depth 227' Hole Size 12 1/4 Slurry Wt. _____ Drill Pipe _____
 Casing Size & Wt. 8 5/8 28# Cement Left in Casing 15' Water Gal/SK _____ Other _____
 Displacement 14 bbls Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting. Rig up to 8 5/8 casing. Break circulation w/ fresh water, Pump 7 bbls ahead. Mix 125 SK's Class A Cement w/ 3% CaCl₂, 2% Gel & 1/4 Flo-Seal per/sk. Displace w/ 14 bbls fresh water. Shut well in. Good cement returns to surface. 6 bbl slurry to pit.
Job Complete Rig down

AFE # 001

Thank you

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C161	1	Pump Charge	840.00	840.00
C167	20	Mileage	3.95	79.00
C200	125 SK's	Class A Cement	15.00	1875.00
C205	350#	Calcium Chloride 3%	1.60	210.00
C206	235#	Gel 2%	0.20	47.00
C209	25#	Flo-Seal 1/4# per/sk	2.25	56.25
C103A	5.87 ton	Ten mileage Bulk Truck	m/c	345.00
			Sub Total	3452.25
			Sales Tax 7.15%	156.46

Authorization [Signature] Title _____ Total 3608.71

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

13924

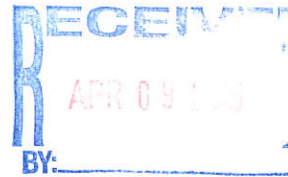
Elite Cementing & Acidizing of KS, LLC

810 E 7th, PO Box 92
Eureka, KS 67045



Date	Invoice #
4/6/2015	2155

Bill To	
Advantage Resources Inc. 1775 Sherman St., Suite 1700 Denver, CO 80203	
Customer ID#	1154



Job Date	4/4/2015
Lease Information	
Frank Pettijohn #1	
County	Elk
Foreman	RL

Item	Description	Qty	Terms	Net 30
			Rate	Amount
C102	Cement Pump-Longstring	1	1,050.00	1,050.00
C107	Pump Truck Mileage (one way)	20	3.95	79.00
C201	Thick Set Cement	155	19.50	3,022.50T
C208	Pheno Seal	155	1.25	193.75T
C217	Caustic Soda	100	1.60	160.00T
C108A	Ton Mileage (min. charge)	1	345.00	345.00
C113	80 Bbl Vac Truck	4	85.00	340.00
C224	City Water	3,300	0.01	33.00T
C420	4 1/2" Latch Down Plug	1	200.00	200.00T
C503	4 1/2" Centralizer	4	44.00	176.00T
C660	4 1/2" AFU Float Shoe	1	275.00	275.00T

We appreciate your business!

Phone #	Fax #
620-583-5561	620-583-5524
E-mail	
rene@elitecementing.com	

Subtotal	\$5,874.25
Sales Tax (7.15%)	\$290.31
Total	\$6,164.56
Payments/Credits	\$0.00
Balance Due	\$6,164.56

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. 2155
 Foreman Rice Ledford
 Camp Eureka KS

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
4-4-15		Frank Pettigrove # 1	20	28S	12E	EIK	Ks
Customer Advantage Resources Inc.			Unit #	Driver	Unit #	Driver	
Mailing Address 1775 Sherman St Ste 1700			105	Alban B.			
City Denver			110	Russm.			
State CO			141	Ed S.			
Zip Code 80203							

Job Type L/S Hole Depth 2124 K.B Slurry Vol. 41 Bbl Tubing _____
 Casing Depth 2122' K.B Hole Size 7 7/8" Slurry Wt. 13.7# Drill Pipe _____
 Casing Size & Wt. 4 1/2" 10.5# Cement Left in Casing 0' Water Gal/SK 9.0 Other _____
 Displacement 34 1/2 Bbls Displacement PSI 500 Bump Plug to 1000 BPM _____

Remarks: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 10 Bbl water. Pump 2 sks caustic soda pre-flush w/ 12 Bbl water, 10 Bbl water spacer. Mixed 125 sks class A thickset cement w/ 1# phenazal /sk @ 13.7#/gal. = 41 Bbl slurry. Washout pump & lines, release 4 1/2" latch down plug. Displace w/ 34 1/2 Bbl fresh water. Final pump pressure 500 PSI. Bump plug to 1000 PSI. wait 2 minutes, release pressure, float & plug held. Good circulation @ all times while cementing. Job complete. Rig down.

note 15 sks Rathole
 15 sks mousehole

Centralizers on jt 1, 8, 12, 15
 Plugged rathole w/ 20 sks
 Plugged mousehole w/ 10 sks

"Thank You"

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	1050.00	1050.00
C107	20	Mileage	3.95	79.00
C201	155 sks	Class A thickset cement	19.50	3022.50
C208	155#	1# phenazal /sk	1.25	193.75
C217	100#	Caustic Soda pre-flush	1.60	160.00
C1084	8.53	ton mileage break tk	m/c	345.00
C113	4 hrs	80 Bbl vac tek	85.00	340.00
C224	3,300 gals	city water	10.00/1000	33.00
C420	1	4 1/2" latch down plug	200.00	200.00
C503	4	4 1/2" x 7 7/8" centralizers	44.00	176.00
C460	1	4 1/2" AFV float shoe	275.00	275.00
			Subtotal	5874.25
			7.5% Sales Tax	290.31
Authorization <u>[Signature]</u> Title _____			Total	6164.56

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Advantage Res. Inc.
1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317
ATTN: Pete

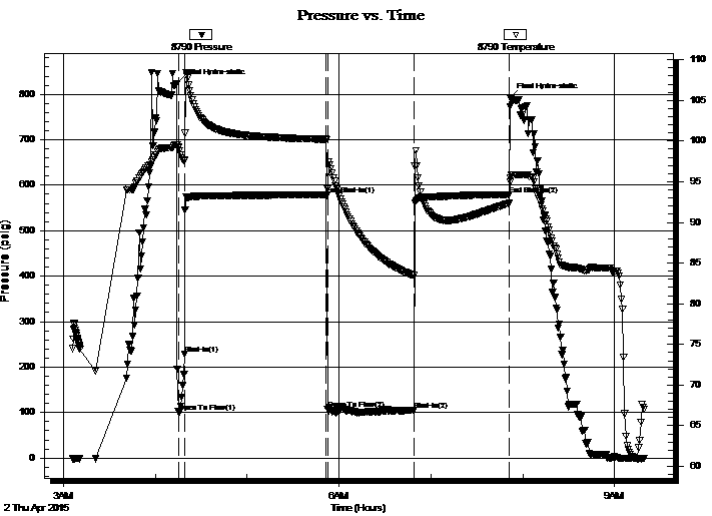
20-28s-12e Elk Co., KS
Frank Pettijohn 1
Job Ticket: 59969 **DST#: 1**
Test Start: 2015.04.02 @ 03:05:53

GENERAL INFORMATION:

Formation: **Miss./Osage**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 04:15:08
Time Test Ended: 09:19:23
Interval: **1724.00 ft (KB) To 1739.00 ft (KB) (TVD)**
Total Depth: 1739.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 1083.00 ft (KB)
1074.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: 105.27 psig @ 1725.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.04.02 End Date: 2015.04.02 Last Calib.: 2015.04.02
Start Time: 03:05:58 End Time: 09:19:22 Time On Btm: 2015.04.02 @ 04:13:38
Time Off Btm: 2015.04.02 @ 07:51:53

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 4 min.
IS: No blow .
FF: Strong blow . BOB immed. Gauged gas.
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	823.85	99.60	Initial Hydro-static
2	101.00	99.17	Open To Flow (1)
6	229.00	97.61	Shut-In(1)
98	578.56	100.21	End Shut-In(1)
99	107.26	94.13	Open To Flow (2)
155	105.27	83.46	Shut-In(2)
218	578.96	92.34	End Shut-In(2)
219	793.05	95.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drig mud 100%m	0.15
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.63	35.00	528.62
Last Gas Rate	0.63	42.00	603.52
Max. Gas Rate	0.63	42.00	603.52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Advantage Res. Inc.

20-28s-12e Elk Co., KS

1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317

Frank Pettijohn 1

Job Ticket: 59969

DST#: 1

ATTN: Pete

Test Start: 2015.04.02 @ 03:05:53

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:

500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	Drig mud 100%m	0.148
0.00	GTS	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbf

Num Fluid Samples: 0

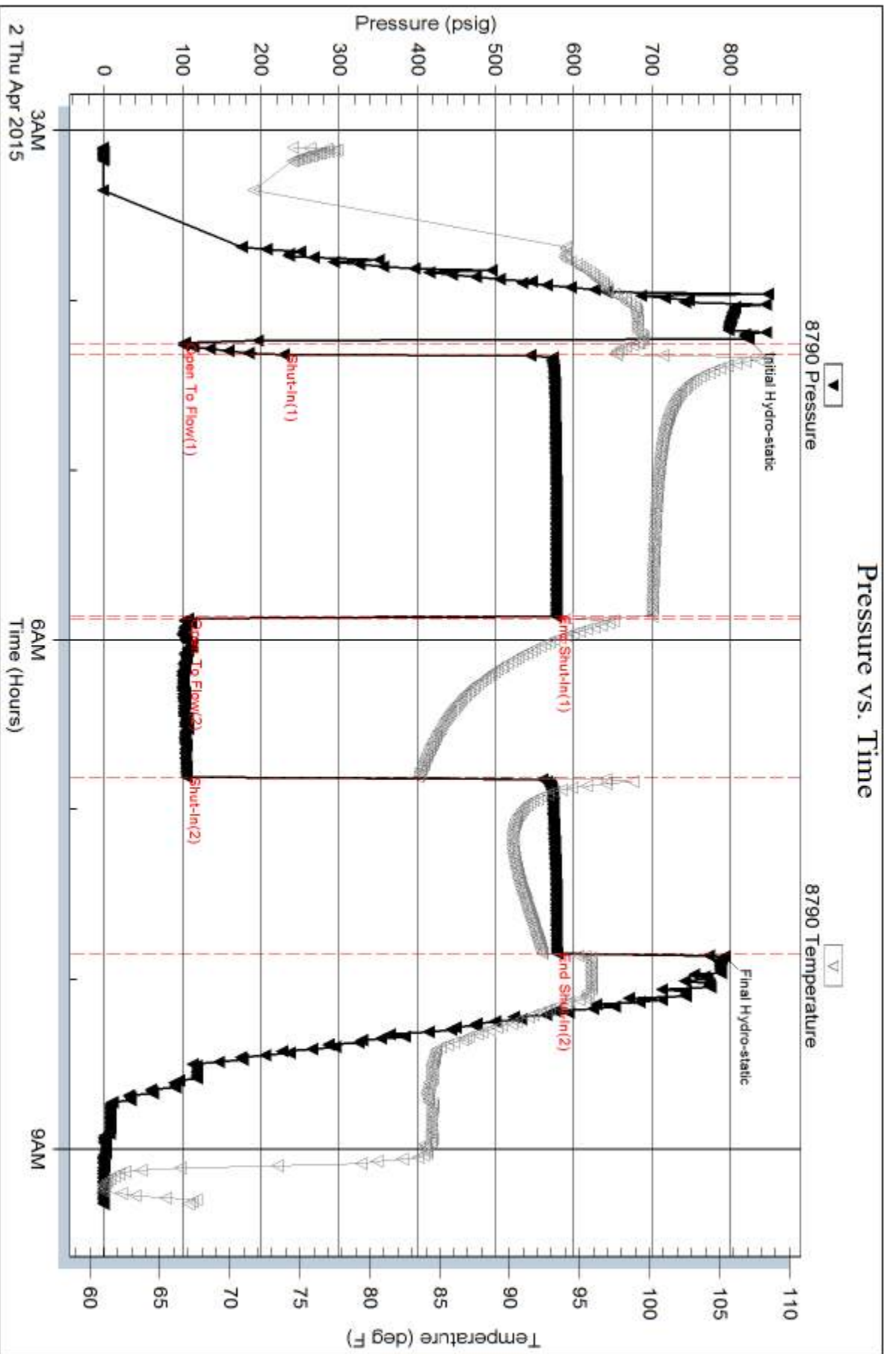
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Advantage Res. Inc.
 1775 Sherman St. Ste. 1700
 Denver, CO. 80203-4317
 ATTN: Pete Lauer

20-28s-12e Elk Co., KS
Frank Pettijohn 1
 Job Ticket: 59970 **DST#: 2**
 Test Start: 2015.04.02 @ 15:20:03

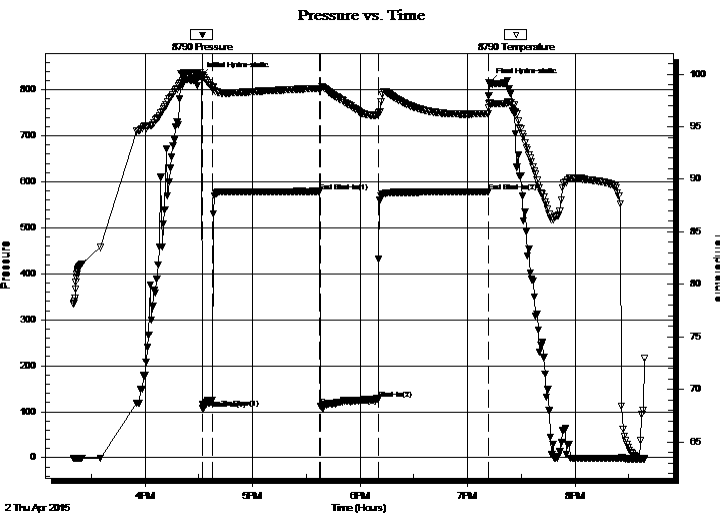
GENERAL INFORMATION:

Formation: **Miss./Osage**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:32:18
 Time Test Ended: 20:39:03
 Interval: **1740.00 ft (KB) To 1776.00 ft (KB) (TVD)**
 Total Depth: 1776.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1083.00 ft (KB)
 1074.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8790

Press @ RunDepth: 127.27 psig @ 1741.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.02 End Date: 2015.04.02 Last Calib.: 2015.04.02
 Start Time: 15:20:08 End Time: 20:39:02 Time On Btm: 2015.04.02 @ 16:31:03
 Time Off Btm: 2015.04.02 @ 19:12:03

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 4min.
 IS: No blow .
 FF: Strong blow . BOB immed. Guaged gas.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	829.62	100.16	Initial Hydro-static
2	107.77	99.86	Open To Flow (1)
7	124.98	98.67	Shut-In(1)
67	579.06	98.66	End Shut-In(1)
67	112.33	98.65	Open To Flow (2)
99	127.27	96.14	Shut-In(2)
161	578.32	96.25	End Shut-In(2)
161	814.52	97.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drig mud 100%m	0.61

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.63	38.00	560.72
Last Gas Rate	0.63	38.00	560.72
Max. Gas Rate	0.63	38.00	560.72



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Advantage Res. Inc.

20-28s-12e Elk Co., KS

1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317

Frank Pettijohn 1

Job Ticket: 59970

DST#: 2

ATTN: Pete Lauer

Test Start: 2015.04.02 @ 15:20:03

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:

480 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Drig mud 100%m	0.615

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 1

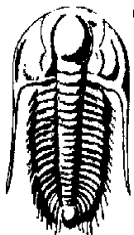
Num Gas Bombs: 1

Serial #: RR-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Advantage Res. Inc.

20-28s-12e Elk Co., KS

1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317

Frank Pettijohn 1

Job Ticket: 59970

DST#: 2

ATTN: Pete Lauer

Test Start: 2015.04.02 @ 15:20:03

Gas Rates Information

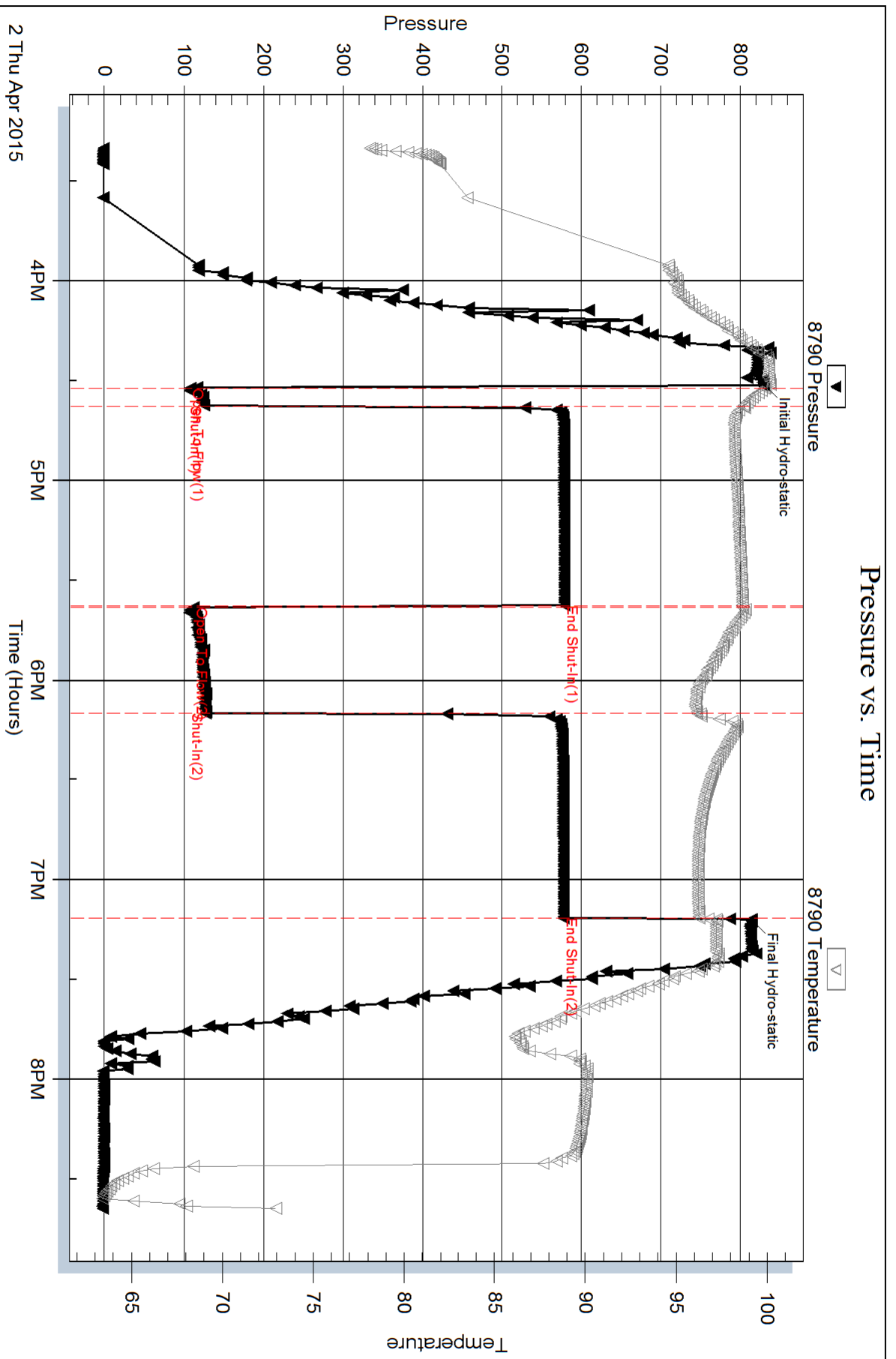
Temperature: 59 (deg F)

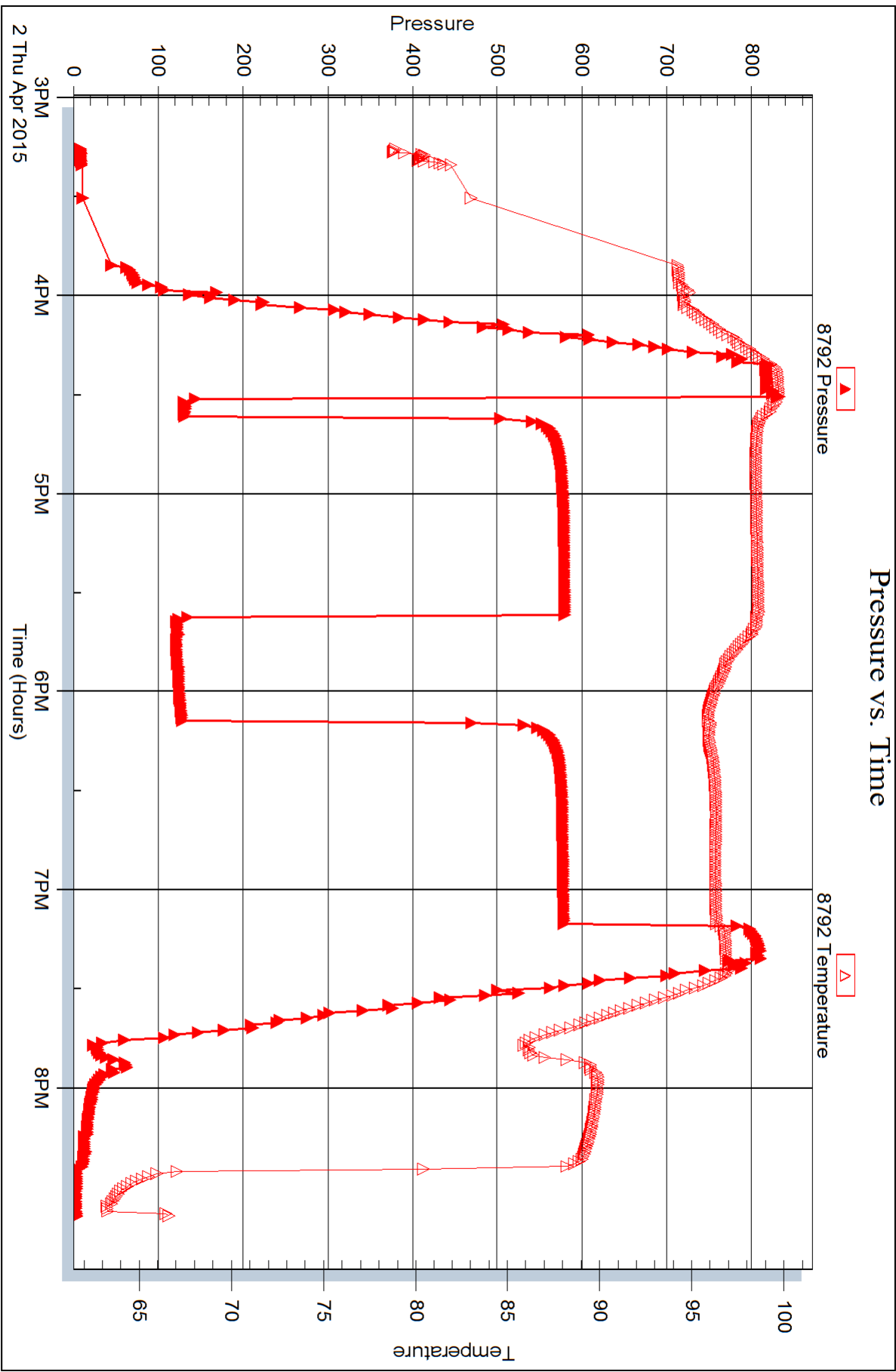
Relative Density: 0.65

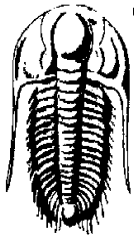
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.63	38.00	560.72
2	20	0.63	38.00	560.72
2	30	0.63	38.00	560.72







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Advantage Res. Inc.
1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317
ATTN: Pete Lauer

20-28s-12e Elk Co., KS
Frank Pettijohn 1
Job Ticket: 59970 **DST#: 2**
Test Start: 2015.04.02 @ 15:20:03

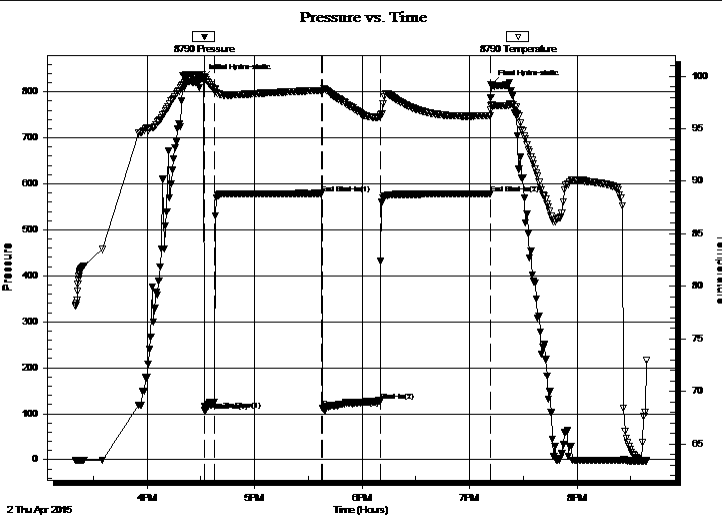
GENERAL INFORMATION:

Formation: **Miss./Osage**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 16:32:18
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Interval: **1740.00 ft (KB) To 1776.00 ft (KB) (TVD)**
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Serial #: 8790

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Start Time: 15:20:08 End Time: 20:39:02 Time On Btm: 2015.04.02 @ 16:31:03
Time Off Btm: 2015.04.02 @ 19:12:03

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 4min.
IS: No blow .
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7	124.98	98.67	Shut-In(1)
67	579.06	98.66	End Shut-In(1)
67	112.33	98.65	Open To Flow (2)
99	127.27	96.14	Shut-In(2)
161	578.32	96.25	End Shut-In(2)
161	814.52	97.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drig mud 100%m	0.61

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.63	38.00	560.72
Last Gas Rate	0.63	38.00	560.72
Max. Gas Rate	0.63	38.00	560.72



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Advantage Res. Inc.

20-28s-12e Elk Co., KS

1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317

Frank Pettijohn 1

Job Ticket: 59970

DST#: 2

ATTN: Pete Lauer

Test Start: 2015.04.02 @ 15:20:03

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:

480 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	Drig mud 100%m	0.615

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 1

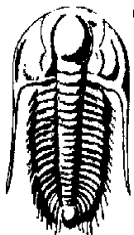
Num Gas Bombs: 1

Serial #: RR-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Advantage Res. Inc.

20-28s-12e Elk Co., KS

1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317

Frank Pettijohn 1

Job Ticket: 59970

DST#: 2

ATTN: Pete Lauer

Test Start: 2015.04.02 @ 15:20:03

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	0.63	38.00	560.72
2	20	0.63	38.00	560.72
2	30	0.63	38.00	560.72

