



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1191361  
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: \_\_\_\_\_

1191361

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	IA Operating, Inc.
Well Name	Veatch Family Trust Unit 4-1
Doc ID	1191361

All Electric Logs Run

Geologist Well Report
Dual Induction Log
Micro Log
Dual Receiver Cement Bond Log
Compensated Density/Neutron Log

Form	ACO1 - Well Completion
Operator	IA Operating, Inc.
Well Name	Veatch Family Trust Unit 4-1
Doc ID	1191361

Tops

Name	Top	Datum
Anhydrite Top	Absent	
Base	Absent	
Topeka	3102	-1044
Heebner Shale	3310	-1252
Toronto	3334	-1276
LKC	3350	-1292
Cherty Congl	3610	-1552
Arbuckle	3652	-1594
Total Depth	3751	-1693



# ALLIED OIL & GAS SERVICES, LLC 056846

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell, Ks

DATE <u>12.19.13</u>	SEC <u>4</u>	TWP <u>11</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 pm</u>	JOB FINISH <u>4:00 pm</u>
LEASE <u>Veach Family</u>	WELL# <u>4-1</u>	LOCATION <u>Ellis, Ks</u>		COUNTY <u>Ellis</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>at 40 county line rd 34e S into</u>			

CONTRACTOR <u>Western Star</u>	OWNER _____
TYPE OF JOB <u>DV - Production</u>	
HOLE SIZE _____ T.D. _____	CEMENT AMOUNT ORDERED <u>375sk</u>
CASING SIZE <u>5 1/2</u> DEPTH _____	<u>6040 + 4% gel + 4 flo-seal</u>
TUBING SIZE <u>2 3/8</u> DEPTH <u>1484'</u>	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>195sk @ 17.9 \$3,490.50</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX <u>130sk @ 9.35 \$1,215.5</u>
CEMENT LEFT IN CSG. _____	GEL <u>13sk @ 23.4 \$304.20</u>
PERFS. _____	CHLORIDE @ _____
DISPLACEMENT <u>8.60 gpm</u>	ASC @ _____
EQUIPMENT	<u>#1/4 16 Flow Seal @</u>
PUMP TRUCK CEMENTER <u>Darryl P</u>	<u>81.23 lbs @ 2.97 \$241.25</u>
# <u>409</u> HELPER <u>Danny S</u>	
BULK TRUCK	
# <u>413</u> DRIVER <u>Jose C</u>	
BULK TRUCK	
# _____ DRIVER _____	
	HANDLING <u>405. Ft @ 2.48 \$1,004.40</u>
	MILEAGE <u>489.72 flom @ 2.60 \$1,273.79</u>
	TOTAL <u>\$7,529.69</u>

REMARKS:  
 \* Calculated Hole @ 48 gpm  
 \* Tested @ 750 psi  
 \* Opened tool @ 500 psi  
 \* Rcn 325sk @ 65 gpm - Dis 8.60 gpm  
 \* Washed group @ 16 gpm  
 \* Pressured to 4700 psi. Tested  
 Cement to Surface

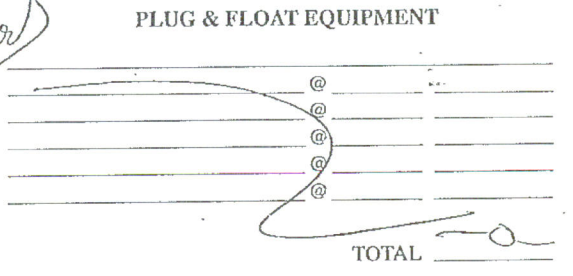
CHARGE TO: I.A. Operating Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE	
DEPTH OF JOB	<u>1484'</u>
PUMP TRUCK CHARGE	<u>\$2,249.84</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>Heavy 29m</u>	@ <u>7.70 \$223.30</u>
MANIFOLD <u>Light 29m</u>	@ <u>4.40 \$127.60</u>
	@ _____
	@ _____

TOTAL \$2,600.74

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Tom Bevens



SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \$10,130.38  
 DISCOUNT \$2,532.59 IF PAID IN 30 DAYS  
Net 7597.79

# ALLIED OIL & GAS SERVICES, LLC 061076

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE <u>11-30-13</u>	SEC. <u>4</u>	TWP. <u>11</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 am</u>	JOB FINISH <u>9 am</u>
VEATCH FAMILY LEASE UNIT	WELL # <u>4-1</u>	LOCATION <u>Ellis N to Colton Rd</u>	COUNTY <u>Ellis</u>	STATE <u>TX</u>			
OLD OR NEW (Circle one) <u>NEW</u>		<u>34 E Sinto</u>					

CONTRACTOR <u>Discrey #2</u>	OWNER
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D.
CASING SIZE <u>8 5/8</u>	DEPTH <u>220-48</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15 Ft</u>	
PERFS.	
DISPLACEMENT <u>13.08 bbl Fresh Water</u>	

**EQUIPMENT**

PUMP TRUCK # <u>366</u>	CEMENTER <u>Jose Guac</u>
BULK TRUCK # <u>244-170</u>	HELPER <u>Ben Newel</u>
BULK TRUCK #	DRIVER <u>Kevin Wickham</u>
BULK TRUCK #	DRIVER

**CEMENT**

AMOUNT ORDERED <u>150 SKS Class A 3% GEL</u>	
COMMON <u>150</u>	@ <u>17.90</u> <u>2,685.00</u>
POZMIX	@
GEL <u>3</u>	@ <u>23.40</u> <u>70.20</u>
CHLORIDE <u>423</u>	@ <u>.80</u> <u>338.40</u>
ASC	@
HANDLING <u>162.50</u>	@ <u>2.48</u> <u>403.90</u>
MILEAGE <u>7.41 x 27 x</u>	@ <u>2.60</u> <u>520.20</u>
<b>TOTAL</b> <u>4,016.80</u>	

**REMARKS:**  
On location - Rig up - had safety meeting  
Run 8 5/8 casing - Break circulation w/ big mud  
pump 5 bbl Fresh Water Ahead  
Mix 150 SKS Class A 3% GEL 2% GEL  
Displace 13.08 bbl Fresh Water  
Shut in 8 1/2 on  
Cement did Circulate  
Rig down

CHARGE TO: IA Operating

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	
PUMP TRUCK CHARGE <u>1512.25</u>	
EXTRA FOOTAGE	@
MILEAGE <u>Hum 27</u>	@ <u>7.70</u> <u>207.90</u>
MANIFOLD	@
<u>Hum 27</u>	@ <u>4.40</u> <u>118.80</u>

**TOTAL** 1,838.95

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	
<b>TOTAL</b> _____		

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Terrance Wickham

SIGNATURE Terrance Wickham

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 5,855.83

DISCOUNT 1,171.16 IF PAID IN 30 DAYS

4,684.66

# ALLIED OIL & GAS SERVICES, LLC 056840

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell, KS

DATE <u>12.8.13</u>	SEC. <u>4</u>	TWP. <u>11</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 Am</u>	JOB FINISH <u>7:30 Am</u>
LEASE <u>Veatch Family</u>	WELL# <u>4-1</u>		LOCATION <u>Ellis, KS</u>	COUNTY <u>Ellis</u>	STATE <u>KS</u>		
OLD OR (NEW) (Circle one)			<u>N to county line rd 3/4 e 5 into</u>				

CONTRACTOR <u>Discology #2</u>		OWNER
TYPE OF JOB <u>LS- Production</u>		
HOLE SIZE <u>7 7/8</u>	T.D.	CEMENT AMOUNT ORDERED <u>150sk ASC</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>3750.60'</u>	
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PREV. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT <u>42.45'</u>	
CEMENT LEFT IN CSG. <u>42.45'</u>		
PERFS.		
DISPLACEMENT <u>88.25 bbls</u>		

EQUIPMENT		
PUMP TRUCK # <u>417</u>	CEMENTER <u>Gary P. Jakeff</u>	<del>SAFETY</del> @ <del>25.00</del>
	HELPER <u>Danny S-</u>	@
BULK TRUCK # <u>378</u>	DRIVER <u>Jesse C</u>	Mudfl. 1250 @ 58.7 \$704.40
BULK TRUCK #	DRIVER	@
		HANDLING <u>178.62 Flt</u> @ <u>2.48</u> \$442.98
		MILEAGE <u>233.8125 Nm</u> @ <u>2.60</u> \$607.91
		TOTAL \$4,890.29

REMARKS:  
 \* Ran Float Equip - see "P&F equip."  
 \* Circulated Mud for 1/2 Hr.  
 \* Dropped Ball circulated for 1/2 Hr.  
 \* Ran 10 spacers  
 \* Ran 12 bbls mudfl. plug  
 \* Plugged KATHOLE = 30sk - Mouse = 10sk  
 \* Ran 150sk ASC @ 26.07 Nm  
 \* Displaced 5 1/2 Latch Down Plug @ 80.25 bbls - Landed Plug @ 1,500 psi.

CHARGE TO: IA Operating Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Tom Perez

SERVICE	
DEPTH OF JOB	<u>3750.60'</u>
PUMP TRUCK CHARGE	<u>\$2,558.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>Accy 29m</u>	@ <u>7.7</u> \$223.30
MANIFOLD <u>Light 29m</u>	@ <u>4.4</u> \$127.60
	@
	@
	TOTAL \$2,909.65

PLUG & FLOAT EQUIPMENT	
1x 5 1/2 Float Shoe	@ - \$399.30
1x 5 1/2 Latch Down	@ - \$398.75
1x 5 1/2 Port Collar	@ - \$183.25
4x 5 1/2 T3 Asket	@ - \$159.40
7x 5 1/2 Centralizers	@ 28.40 \$198.80
	@
	TOTAL \$2,921.50

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \$7,440.54 10,727.44  
 DISCOUNT \$1,910.13 1,949.98 IF PAID IN 30 DAYS  
 net 8777.46





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Imperial America Operating INC

4-11-20-Ellis Co

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

ATTN: Jeff Lawler

Job Ticket: 55844

**DST#: 2**

Test Start: 2013.12.05 @ 08:50:42

## GENERAL INFORMATION:

Formation: **LKC E&F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:09:22

Time Test Ended: 16:30:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3416.00 ft (KB) To 3437.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3437.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press @ Run Depth: 21.86 psig @ 3419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.05 End Date: 2013.12.05

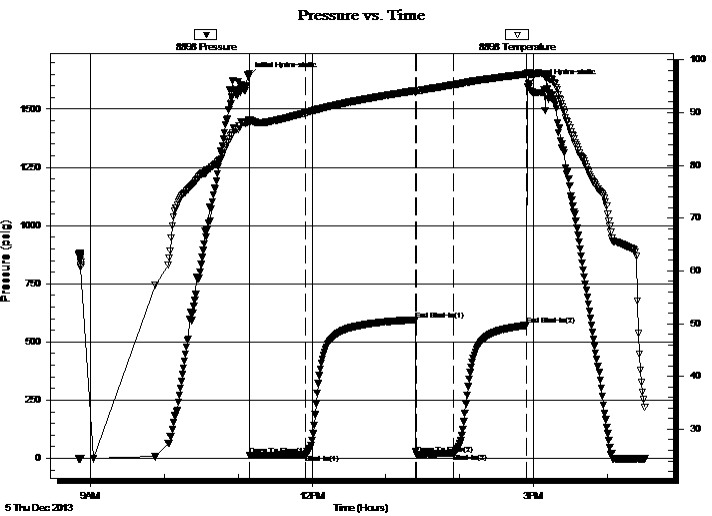
Last Calib.: 2013.12.05

Start Time: 08:50:43 End Time: 16:30:32

Time On Btm: 2013.12.05 @ 11:08:42

Time Off Btm: 2013.12.05 @ 14:56:02

**TEST COMMENT:** Weak surface blow built to 2 1/2 in  
Dead no blow back  
Weak surface blow built to 1/4 in  
Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.56	88.68	Initial Hydro-static
1	12.26	88.01	Open To Flow (1)
46	17.18	89.96	Shut-In(1)
136	595.64	94.17	End Shut-In(1)
136	18.40	94.09	Open To Flow (2)
166	21.86	95.27	Shut-In(2)
226	571.82	97.30	End Shut-In(2)
228	1611.11	97.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mw with oil spots	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

Job Ticket: 55844

**DST#: 2**

ATTN: Jeff Lawler

Test Start: 2013.12.05 @ 08:50:42

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M with oil spots	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

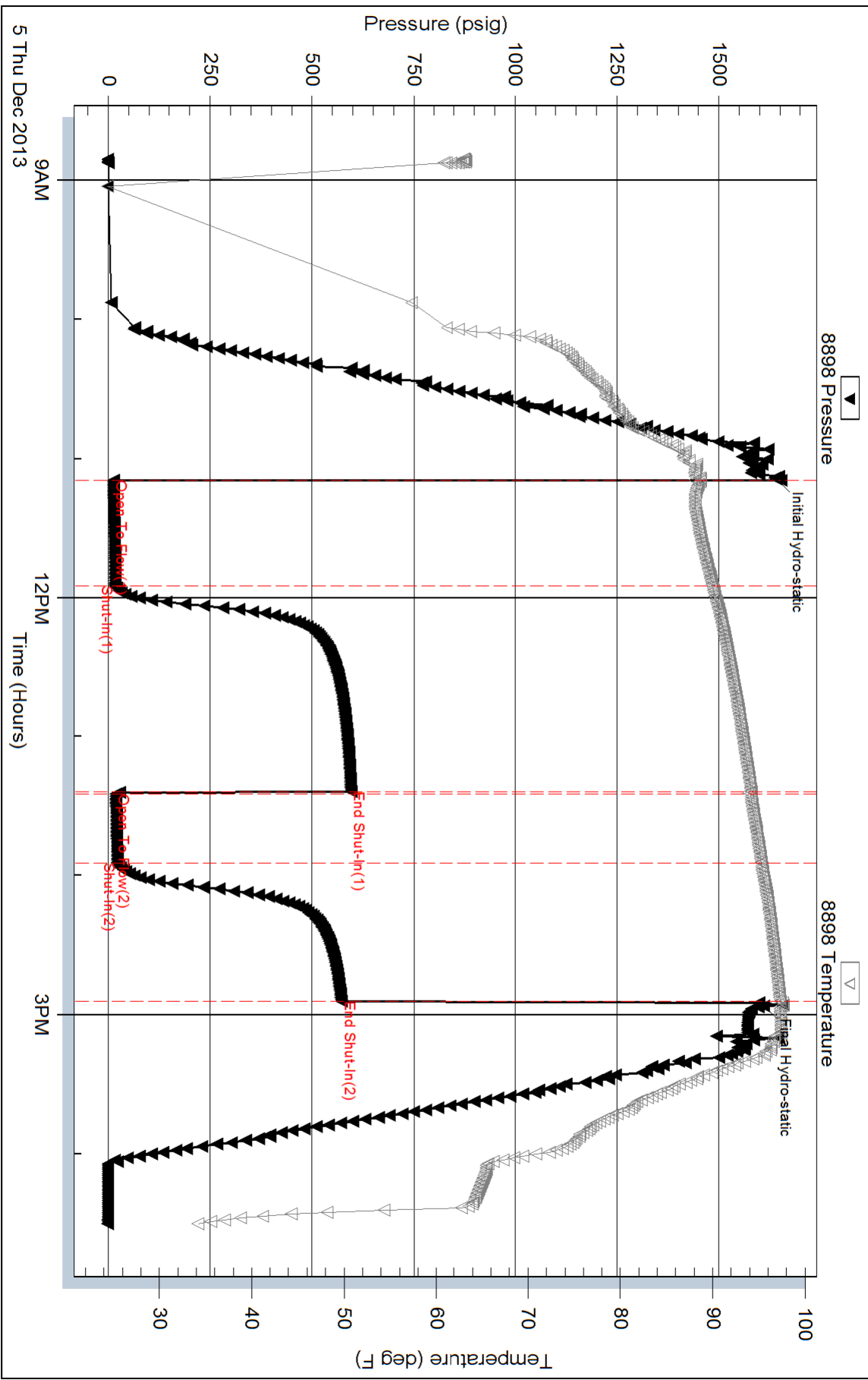
Serial #: 8898

Outside Imperial America Operating INC

Veatcha Family Trust

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 55844

Printed: 2013.12.05 @ 16:51:01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatch Family Trust**

ATTN: Jeff Lawler

Job Ticket: 55843

**DST#: 1**

Test Start: 2013.12.04 @ 19:57:56

## GENERAL INFORMATION:

Formation: **LKC C&D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:59:06

Time Test Ended: 01:25:56

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

**Interval: 3375.00 ft (KB) To 3420.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3420.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press @ Run Depth: 35.76 psig @ 3384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.04

End Date:

2013.12.05

Last Calib.: 2013.12.05

Start Time: 19:57:57

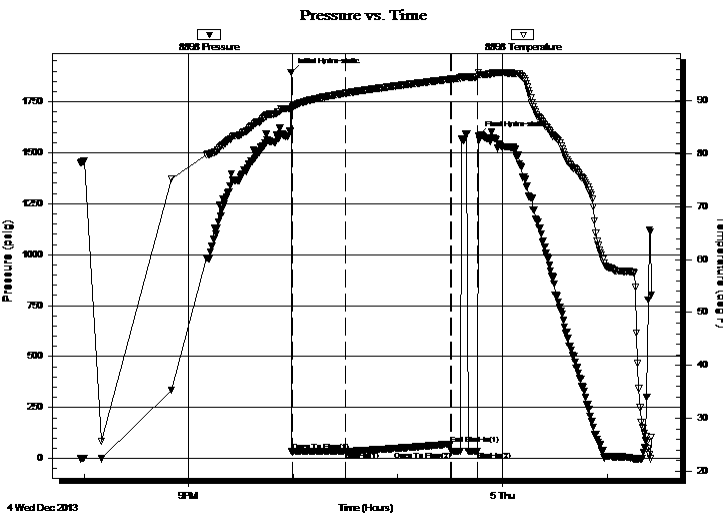
End Time:

01:25:56

Time On Btm: 2013.12.04 @ 21:58:36

Time Off Btm: 2013.12.04 @ 23:46:16

**TEST COMMENT:** Slid 10 ft weak surface blow started at 1 1/4 in and stayed Dead no blow back  
Dead no blow flushed tool surge blow then died  
Pulled it



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.46	88.63	Initial Hydro-static
1	35.13	88.48	Open To Flow (1)
32	35.76	91.47	Shut-In(1)
92	70.98	94.13	End Shut-In(1)
93	35.31	94.12	Open To Flow (2)
107	36.29	94.62	Shut-In(2)
108	1581.34	95.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w ith oil spots	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatch Family Trust**

Job Ticket: 55843

**DST#: 1**

ATTN: Jeff Lawler

Test Start: 2013.12.04 @ 19:57:56

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	Mud with oil spots	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

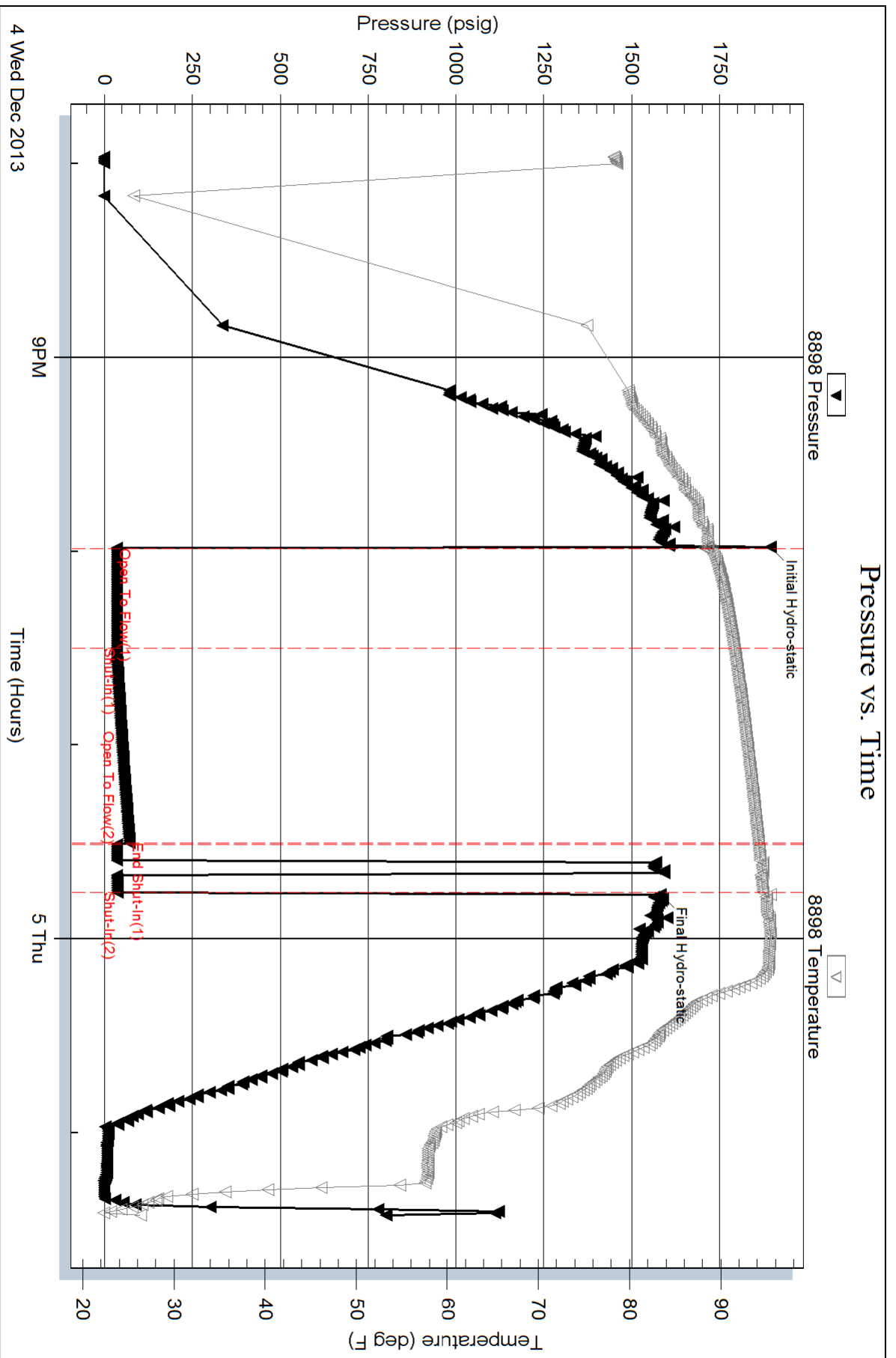
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

ATTN: Jeff Lawler

Job Ticket: 55845

**DST#: 3**

Test Start: 2013.12.06 @ 05:24:27

## GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:57

Time Test Ended: 13:47:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3490.00 ft (KB) To 3566.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3566.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898**

**Outside**

Press@RunDepth: 33.89 psig @ 3498.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.06

End Date:

2013.12.06

Last Calib.:

2013.12.06

Start Time: 05:24:28

End Time:

13:47:27

Time On Btm:

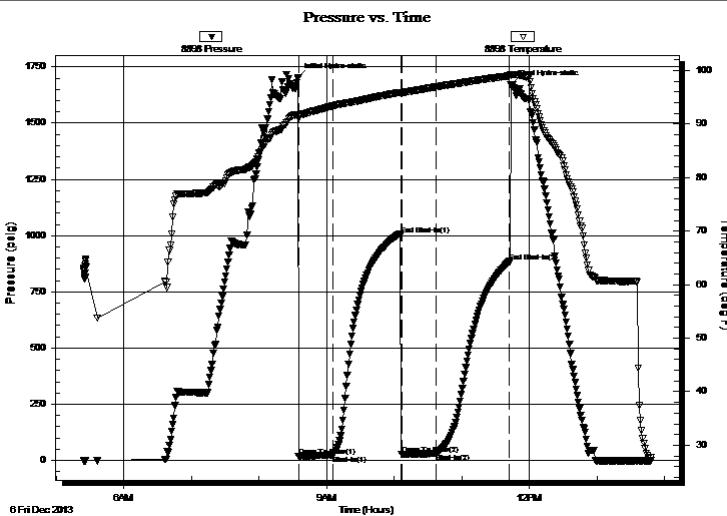
2013.12.06 @ 08:34:47

Time Off Btm:

2013.12.06 @ 11:43:17

**TEST COMMENT:** Weak surface blow built to 2 1/2 in  
Dead no blow back  
Weak surface blow built to 1 1/4 in  
Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.97	91.75	Initial Hydro-static
1	18.64	90.97	Open To Flow (1)
31	24.55	93.32	Shut-In(1)
91	1002.88	95.94	End Shut-In(1)
92	28.93	95.80	Open To Flow (2)
122	33.89	96.91	Shut-In(2)
188	884.75	98.99	End Shut-In(2)
189	1672.93	99.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%O	0.02
10.00	30%O 70%M	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

Job Ticket: 55845

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2013.12.06 @ 05:24:27

### 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:

ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%O	0.025
10.00	30%O 70%M	0.049

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

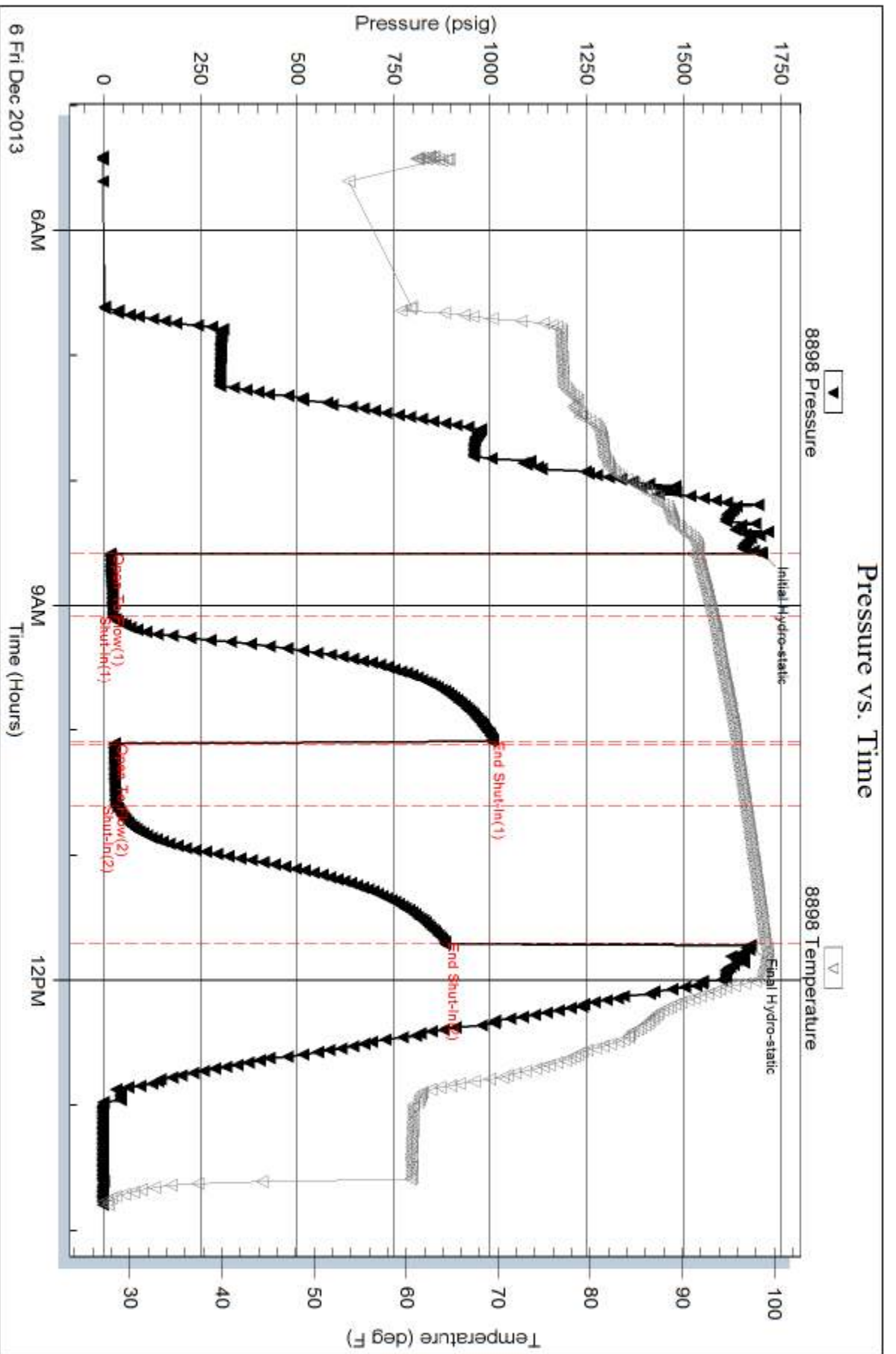
Serial #:

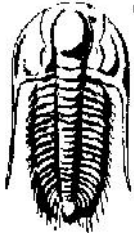
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

ATTN: Jeff Lawler

Job Ticket: 55846

**DST#: 4**

Test Start: 2013.12.06 @ 22:10:17

## GENERAL INFORMATION:

Formation: **Conglomerate-Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:07

Time Test Ended: 05:05:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

**Interval: 3579.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press @ Run Depth: 66.76 psig @ 3592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.06

End Date:

2013.12.07

Last Calib.: 2013.12.07

Start Time: 22:10:18

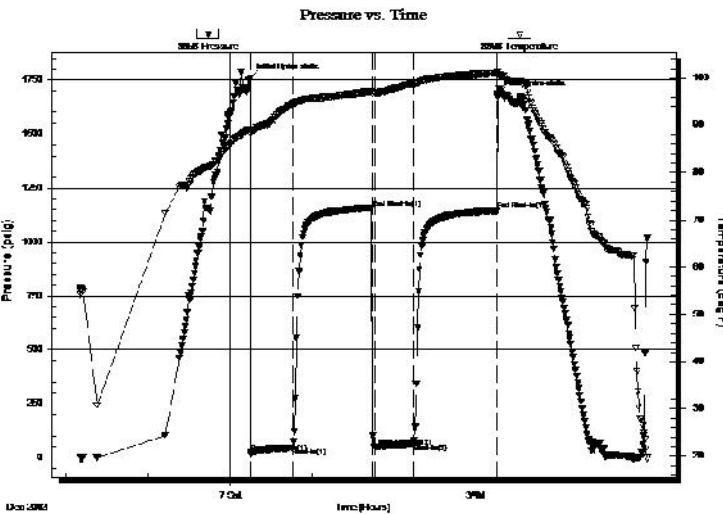
End Time:

05:05:37

Time On Btm: 2013.12.07 @ 00:14:57

Time Off Btm: 2013.12.07 @ 03:15:56

**TEST COMMENT:** Fair surface blow built to 6 1/2 in  
Dead no blow back  
Good surface blow built to 9 in  
Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.84	89.12	Initial Hydro-static
1	22.40	88.32	Open To Flow (1)
31	48.12	94.50	Shut-In(1)
90	1157.36	97.18	End Shut-In(1)
91	51.38	96.90	Open To Flow (2)
120	66.76	98.76	Shut-In(2)
181	1145.57	101.17	End Shut-In(2)
181	1683.12	101.34	Final Hydro-static

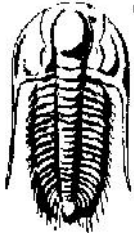
## Recovery

Length (ft)	Description	Volume (bbl)
62.00	5%G 5%O 90%M	0.60
62.00	10%G 45%O 45%M	0.87
20.00	60%G 40%O	0.28
0.00	100 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Imperial America Operating INC

4-11-20-Ellis Co

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

Job Ticket: 55846

**DST#: 4**

ATTN: Jeff Lawler

Test Start: 2013.12.06 @ 22:10:17

## GENERAL INFORMATION:

Formation: **Conglomerate-Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:07

Time Test Ended: 05:05:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: **3579.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Total Depth: 3660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2055.00 ft (KB)

2047.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8897**

**Inside**

Press@RunDepth: psig @ 3592.00 ft (KB)

Start Date: 2013.12.06

End Date:

2013.12.07

Start Time: 22:10:27

End Time:

05:05:26

Capacity: 8000.00 psig

Last Calib.:

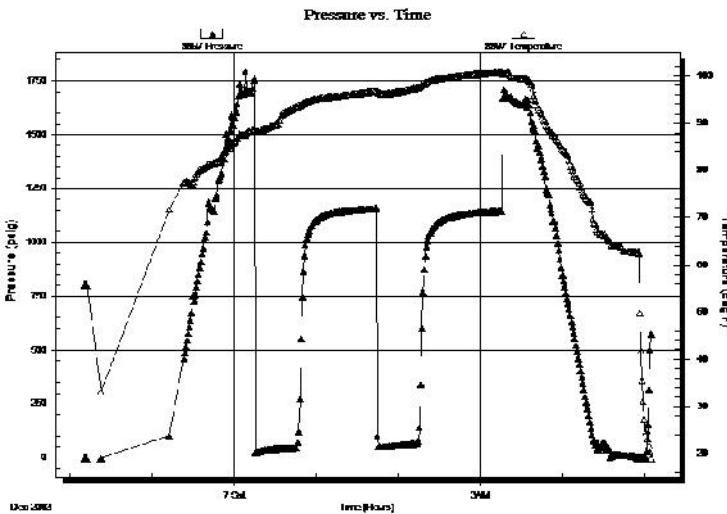
2013.12.07

Time On Btm:

Time Off Btm:

**TEST COMMENT:** Fair surface blow built to 6 1/2 in  
Dead no blow back  
Good surface blow built to 9 in  
Dead no blow back

## PRESSURE SUMMARY



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

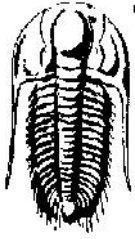
## Recovery

Length (ft)	Description	Volume (bbl)
62.00	5%G 5%O 90%M	0.60
62.00	10%G 45%O 45%M	0.87
20.00	60%G 40%O	0.28
0.00	100 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**

Imperial America Operating INC

**4-11-20-Ellis Co**

9915 W 21 st STE B  
Wichita KS 67205

**Veatcha Family Trust**

Job Ticket: 55846

**DST#: 4**

ATTN: Jeff Lawler

Test Start: 2013.12.06 @ 22:10:17

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.19 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	5%G 5%O 90%M	0.596
62.00	10%G 45%O 45%M	0.870
20.00	60%G 40%O	0.281
0.00	100 GIP	0.000

Total Length: 144.00 ft      Total Volume: 1.747 bbl

Num Fluid Samples: 0

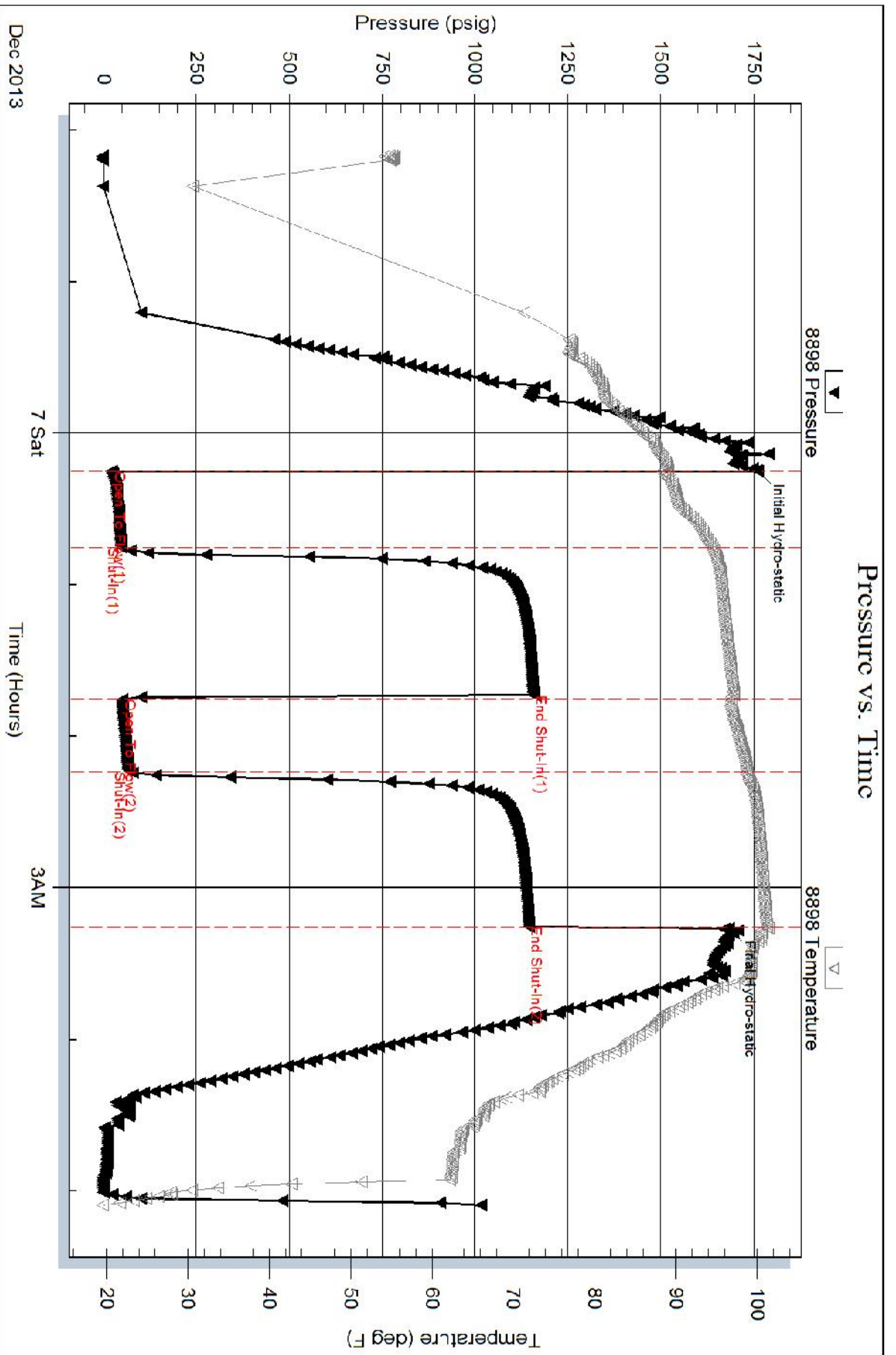
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8897

Inside

Imperial America Operating INC

Veatcha Family Trust

DST Test Number: 4

