Confidentiality Requested: Yes No

### KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1191361

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
G OG GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used?
	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD     Permit #:	Location of fluid disposal if hauled offsite:
ENHR         Permit #:	Location of huid disposa in natied offsite.
GSW     Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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:					

	Page Two	1191361
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS: Chause important tang of formations paratrated	atail all aaraa Bapart all final	conice of drill stome tests giving interval tested, time test

**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 (Attach Additional Sh	eets)	Yes No		Log Formation (Top), Depth and Datum			
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-o	conductor, surface, inte	ermediate, producti	on, 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 / SQL	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
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 Specify Footage of Each Interval Perf				De			ement Squeeze Record of Material Used)	Depth	
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R		No	
Date of First, Resumed	l Product	ion, SWD or ENH	۶.	Producing		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSIT					METHOD	OF COMPLE			PRODUCTION IN	
Vented Sole	d 🗌 I	Used on Lease		Open Hole	Perf.	OF COMPLE Dually (Submit)	Comp.	Commingled (Submit ACO-4)		ILNVAL.
(If vented, Su	ibmit ACC	<i>ו</i> -18.)		Other (Specify	/)					

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	Тор	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

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

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.250	8.6250	23	220	Class A	3% cc, 2% gel
Production	7.8750	5.50	15.5	3750	ASC	mudd flush

ALLIED OIL & GAS	,
REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT: Rusself ks
DATE 12.19.13 4 11 20 Vegen Family Well# 4-1 LOCATION Ellis	LLED OUT ON LOCATION JOB START JOB FINISH 330 pm 400 pm COUNTY STATE 2//is //s y line 11 34 e 5 00 to
CONTRACTOR Wiskrn Star TYPE OF JOB DV - Product:22 HOLE SIZE T.D. CASING SIZE 5 2 DEPTH TUBING SIZE 278 DEPTH 1484 DRILL PIPE DEPTH TOOL DEPTH PRES. MAX MINIMUM	OWNER CEMENT AMOUNT ORDERED 3755K LO140 + 47. guf + 4910-Sect COMMON 1955K @ 17.9 \$3,490.50
MEAS.LINE SHOE JOINT CEMENT LEFT IN CSG. PERFS. DISPLACEMENT 8.60 49 m.0 EQUIPMENT	POZMIX $/3_{05}$ @ $/35$ \$ $/2/5.5$ GEL $/3_{5}$ $/2.25$ \$ $/2/5.5$ GEL $/3_{5}$ $/2.25$ \$ $/2/5.5$ CHLORIDE       @       @ $/2.54$ $/2.55$ ASC       @       @       @ $/2.54$ $/2.55$ # $/4$ $/1.75$ $/2.65$ $/2.54$ $/2.55$ $/2.54$ $/2.55$ @       @       @       @ $/2.54$ $/2.55$ $/2.54$ $/2.55$ # $/4$ $/1.756$ $/2.54$ $/2.56$ $/2.54$ $/2.556$ $/2.566$ $/2.566$ $/2.566$ $/2.566$ $/2.566$ $/2.566$ $/2.566$ $/2.5666$ $/2.56666$ $/2.5666666666666666666666666666666666666$
PUMPTRUCK CEMENTER Dang P # 409 HELPER Dang S BULK TRUCK # 473 DRIVER Jesce C BULK TRUCK # DRIVER	@@@@@@
REMARKS: A Cilculated 19-le 948 Mus- A Jested D & 750 ps: A Opened Tool O # 500 Psis A CA 325 St D 65 99My - Dis 816 A Washing group O 16 "19922 A Pressured to 4700 psi. Tested Cement to Surfaced	HANDLING $\frac{105}{105}$ . $\frac{147}{72}$ @ 2.48 $\frac{1}{2.60}$ $\frac{1}{51,073,19}$ TOTAL $\frac{1}{7},529$ GY SERVICE $\frac{1479}{100}$ $\frac{1479}{100}$ DEPTH OF JOB $\frac{1479}{100}$ PUMP TRUCK CHARGE $\frac{1479}{100}$ EXTRA FOOTAGE @ $\frac{1479}{100}$ $\frac{123.59}{100}$ MILEAGE $\frac{1290}{100}$ @ $\frac{170}{100}$ $\frac{223.39}{100}$ MANIFOLD $\frac{1392}{100}$ @ $\frac{149}{100}$ $\frac{127.59}{100}$ @ $\frac{1479}{100}$
CHARGE TO: <u>I.A. Operating</u> Inc. STREET	TOTAL 27600.19
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.	SALES TAX (If Any) TOTAL CHARGES $\neq 10, 130, 38$ DISCOUNT $\neq 2, 532, 59$ IF PAID IN 30 DAYS Yes 7597, 79
SIGNATURE Jon Becens	Yel 1597,79

# ALLIED OIL & GAS SERVICES, LLC 061076

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999

SERVICE POINT:

SOUTHLAKE, TEXAS 76092	Great Band
DATE 11-30-13 - 1 11 - 20	LLED OUT ON LOCATION JOB START JOB FINISH
ULASE MUST WELL # 4-1 LOCATION FILLS OLD OR NEW (Circle one) 3/4 E 5/2	N to colon Rd COUNTY'S STATE;
CONTRACTOR Discoury FZ TYPE OF JOB Surface	OWNER
HOLE SIZE 12.41 T.D. CASING SIZE 8.72 DEPTH 7.20, -13 TUBING SIZE DEPTH DRILL PIPE 44 DEPTH TOOL DEPTH	CEMENT AMOUNT ORDERED _ 150 SICS (1455 A 35%) 249 5 8 (
TOOL     DEPTH       PRES. MAX     MINIMUM       MEAS. LINE     SHOE JOINT       CEMENT LEFT IN CSG.     15 Et	COMMON 150 @ 17.90 2.685.00 POZMIX @ @ GEL 3 @ 23.40 70.20
DISPLACEMENT 13:08 661 Frither EQUIPMENT	CHLORIDE     423     50     338.40       ASC     @
PUMPTRUCK CEMENTER Doj (sea C # 366 HELPER Ben Never BULKTRUCK #344-172 DRIVER Kever weighbows	
BULK TRUCK # DRIVER	(e) HANDLING 162.50 (e) 2.48 403.00 MILEAGE 7.41 × 27 × 2.60 520.28
REMARKS: Dr. Loution - Rig of - hod Safter Weather for \$ 55 cost of - Break cit viation of hid mal pomp 5 bb Press water Alread	TOTAL 4.016. 88 SERVICE
Mix 150 SKS CLOSS A 300-00 2% gel Displace 13.08 bbl Fash Deter Shut in	DEPTH OF JOB PUMP TRUCK CHARGESI2 .25 EXTRA FOOTAGE@
Levent did Citalate	MILEAGE <u>Hum 27</u> @7-70 207.20 MANIFOLD @ <u>Lum 27</u> @ <u>4.40</u> 118.20
CHARGE TO: JA Operatolog	TOTAL 1.838.95
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
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	@ TOTAL
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any) TOTAL CHARGES <u>5. 855.</u> 1. 171. <u>16</u> DISCOUNT <u> </u>
SIGNATURE John Curr	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:

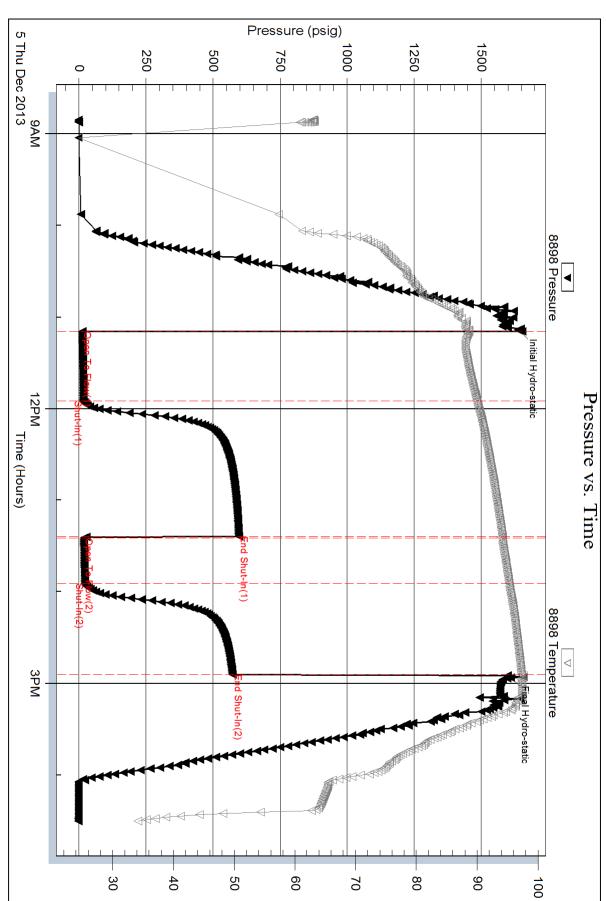
		NSAS 6766					-par	sell, m
DATE 12.8.13	SEC. 4	TWP.	RANGE ZO	CA	LLED OUT	ON LOCATION	JOB START	din the statement
Veact Fam		4-1		9.11	15 , K	٠. ۲	COUNTY E1115	STATE PCC
OLD OR NEW)(		11				- 1	5 into	
OLD ON CLEMA	-	_			F	1 -14 6	s into	
CONTRACTOR	1-	J'S COL	64 + 2		OWNER			
TYPE OF JOB		5- Pro	duction					
HOLESIZE	51		VT11 227/2	2/2/	CEMENT	RDERED 15	ner AS	0
CASING SIZE TUBING SIZE	5 12	DEP	тн 3775	5.60	AMOUNTO	KDEKED		0
DRILL PIPE		DEF						
TOOL		DEF		-				
PRES. MAX		MIN	IMUM	[	COMMON_			
MEAS, LINE	NI COO	SHO	DE JOINT 4	12.95	POZMIX _		_@	
CEMENT LEFT	IN CSG.	42.	45		GEL CHLORIDE		@ @	-
PERFS. DISPLACEMEN	т	88.	25 6 Aro		ASC Bile	nd 2 150516		\$3,135.00
DIGI LACLUILI		HPMENT			noc <u></u>			4-4-11
	EQU		_	(m1)	atte	and best ok	@25	-4-
PUMP,TRUCK	CEMENT	FR. HO.	MP.	Jake H	trup-			
# 417		Dan			60 11 001	ish 12 the	 	\$ 704.40
BULK TRUCK			0		Mudd Fr	ISA / COMB	_@	
# 378	DRIVER	Jesse	- C			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
BULK TRUCK						- I	@	
#	DRIVER				HANDLING	178.62 Ft3	@ 2.48	\$442.98
					MILEAGE 2	233.8125 TIM		\$607.91
		MARKS:	Mark	4			TOTA	L\$ 4;890.29
+ Ran F	wat Eg	u-pt- 5	ile PEF	equipt.	,		(a)	
* Cilculal	if las	le too	- YZ.HE.	-		SERVI	CE	
Disped	BANC	1 Routel	J FOR V.	2Hr.		200		3 750.10
2 Ran 12	64.11	- space	٢		DEPTH OF J	CK CHARGE		
ve Plused	KATIHO	16 = 3	Derc - M	ouse =/1	DAKTRA FOC	TAGE	@	- (P <, 3 × () × - 1-
KRON 15	Dele C	SC 21	26.001	March 1	MILEAGE	Alayo29m	@ 7.7	\$ 223.30
4 Displace	a 51/2	Latof	Down f	C SW	MANIFOLD	Light 29m	@ 4.4	\$127-40
80.254	the - L	anded	Physo	\$1,500	834	0. /	@	
		-					_@	
CHARGE TO:	-+ + I	OPerati	ing I	nc.				182909.15
STREET			<i>v</i>				TOTA	Legiol.
CIFY	CT.	ATT	VID	١				
CIFY	21	ATE	AIP	-LD		PLUG & FLOA	I EQUIPME	NT
			X	VW	IV 5/27	Float Stlve	∧ -	\$ 339.30
			$\mathbb{N}$		1×512	Ladett Down		\$ 398.75
				/		Port Collar	@	\$1531.25
To: Allied Oil &	& Gas Serv	ices, LLC.		/	9×5112		@	\$ 159.40
You are hereby	requested 1	to rent cen	nenting equip	pment	FIXOR	Centralizers	@ 40.70	\$ 198. 80
and furnish cen	enter and l	helper(s) to	o assist own	er or				
contractor to do							TOTA	L\$2,927.50
done to satisfac							1014	
contractor. I ha					SALES TAX	(If Any)		
TERMS AND (	CONDITIC	Ins" listed	1 on the reve	rse side.		671-6	054-1	0,127.44
					TOTAL CHA	A 1. J	0	
PRINTED NAM	3	A			DISCOUNT	-HOT3/	77.78 IF PA	ID IN 30 DAYS
	4					in in onn	nil	1
SIGNATURE	Nor.	pe	lez			yer Sill	1.44	
7								

	DRILL STEM TES		ORT			
	Imperial America Operating INC		4-1 <i>°</i>	1-20-Elli	s Co	
ESTING , INC	9915 W 21 st STE B		Vea	atcha Fa	amily Tru	ıst
	Wichita KS 67205		Job	Ticket: 55	5844	DST#: 2
	ATTN: Jeff Law ler		Test	Start: 20	)13.12.05 @	08:50:42
GENERAL INFORMATION:						
Formation:LKC E&FDeviated:NoWhipstock:Time Tool Opened:11:09:22Time Test Ended:16:30:32	ft (KB)		Test Test Unit	er:	Conventiona Tate Lang 49	al Bottom Hole (Reset)
Interval:3416.00 ft (KB) To343Total Depth:3437.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Refe	erence Ele KB t	evations: to GR/CF:	2055.00 ft (KB) 2047.00 ft (CF) 8.00 ft
Serial #: 8898OutsidePress@RunDepth:21.86 psigStart Date:2013.12.05Start Time:08:50:43TEST COMMENT:Weak surface blo Dead no blow ba	End Date: End Time: w built to 2 1/2 in ck	2013.12.05 16:30:32	Capacity: Last Calib Time On I Time Off	o.: Btm: 2		8000.00 psig 2013.12.05 @ 11:08:42 @ 14:56:02
Weak surface blo Dead no blow ba Pressure vs. Ti	сk		PF	RESSUR	RE SUMM	IARY
	25935 Temperature 100	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotati	on
1500		0	1640.56	88.68		
1270		1 46	12.26 17.18	88.01 89.96	· ·	. ,
		136	595.64	94.17	. ,	
			18.40		Open To F	. ,
700		166 226	21.86 571.82	95.27 97.30	Shut-In(2) End Shut-	
500 200 944 504 504 504 504 504 504 504 5		228	1611.11	97.48		
Recovery				Ga	s Rates	
Length (ft) Description	Volume (bbl)			Choke (i	nches) Press	ure (psig) Gas Rate (Mcf/d)
10.00 M w ith oil spots	0.05					

	DRI	LL STEM TEST REPOR	RT	FLL	JID SUMMARY
RILOBITE	Imperia	I America Operating INC	4-11-20-EI	is Co	
TESTING		V 21 st STE B a KS 67205		amily Trust	
	ATTN:	Jeff Law ler	Job Ticket: 5 Test Start: 2	013.12.05 @ 08:50	<b>ST#:2</b> :42
Mud and Cushion Information					
Mud Type:Gel ChemMud Weight:8.00 lb/galViscosity:50.00 sec/qtWater Loss:7.98 in³Resistivity:ohm.mSalinity:500.00 ppmFilter Cake:inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API ppm
Recovery Information		D			
	Length	Recovery Table Description	Volume	1	
	ft 10.00	M w ith oil spots	0.049		
Total Len		.00 ft Total Volume: 0.049 b	•	4	
Laborato	/ Comments:	Laboratory Location:			

Printed: 2013.12.05 @ 16:51:01

Ref. No: 55844



Temperature (deg F)

Trilobite Testing, Inc

Serial #: 8898 Outside Imperial America Operating INC

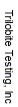
Veatcha Family Trust

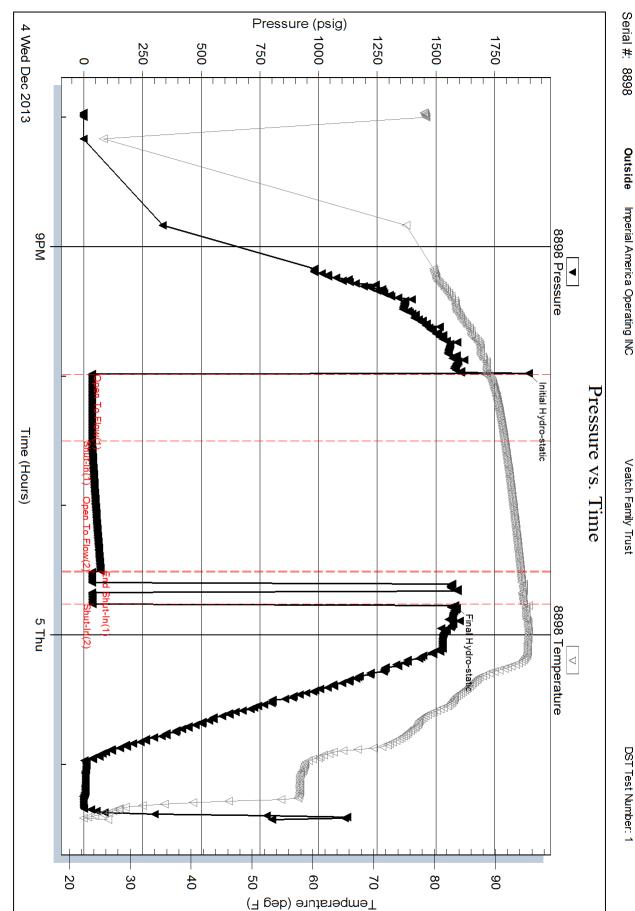
Test Tring, // function of person (gives)       Person (gives)       Person // function of person (gives)       Person (gives)       Person // function of person (gives)       Person // function (gives)       Person // function (gives)		RILL STEM TES	TREP	ORT			
Wichtia KS 67205     Job Ticket: 55843     DST#:       ATTN: Jeff Lawler     Test Start: 2013.12.04 @ 19:67:56       GENERAL INFORMATION:     Erorration:     LKC C&D       Deviated:     No     Withpistock:     ft (KB)       Time Tool Opened: 21:59:06     Test Type:     Conventional Bottom Ho       Time Tool Opened: 21:59:06     Test Type:     Conventional Bottom Ho       Total Depth:     3420.00 ft (KB) (TVD)     Reference Elevations:     2055.00       Total Depth:     3420.00 ft (KB) (TVD)     Reference Elevations:     2050.00       Serial #:     8893     Outside     Capacity:     8000.00       Start Date:     2013.12.05     Last Callb::     2013.12.04 @ 21:58:36       Test Town:     19:57:57     End Time:     01:25:56     Time On Birr:     2013.12.04 @ 21:38:36       Test Tool Nobus Alashed:     Dead no blow back     Dead no blow back     Dead no blow back     Dead no blow back       Dead no blow back     Dead no blow back     Dead no blow fushed tool surge blow then died     1007     1012     Dead no Flow(1)       32     35:14     94:13     Proster v. Time     Time     PRESSURE SUMMARY       Time     Time Tool Nobus fushed tool surge blow then died     1001     1083.151.34     94:13     Pointo Flow(1)       32     35:14		perial America Operating INC		4-11-2	0-Ellis Co	)	
ATTN: Jeff Law ler       Test Start: 2013.12.04 @ 19:57:56         GENERAL INFORMATION:         Formation:       LKC C&D         Deviated:       No       Whipstock:       ft (KB)       Test Type: Conventional Bottom Ho         Time Test Ended:       101 No: 4 49         Interval:       3375.00 ft (KB) TO       3420.00 ft (KB) (TVD)       Reference Elevations:       2055.00         Total Depth:       3375.00 ft (KB) (TVD)       Capacity:       8000.00         Serial #: 8898       Outside       Press@RunDepth:       357.6p psig       3384.00 ft (KB)       Capacity::       8000.00         Start Time:       2013.12.04       End Date:       2013.12.04 @ 21:58:36         Time On Bur:       2013.12.04 @ 21:58:36					-		.4. 1
Formation: LKC C&D Deviated: No Whipstock: ft (KB) Time Tool Opened: 21:59:06 Time Tool Opened: 21:59:06 Time Tool Opened: 21:59:06 Total Depth: 3375.00 ft (KB) To 3420.00 ft (KB) (TVD) Total Depth: 3420.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Good KB to GRVCF: 8.00 Serial #: 8898 Outside Press @RunDepth: 35.76 psig @ 3384.00 ft (KB) Start Dete: 2013.12.04 End Date: 2013.12.05 Start Time: 19:57:57 End Time: 01:25:56 Time Off Btm: 2013.12.04 @ 21:58:36 Time Off Btm: 2013.12.04 @ 21:58:36 Time Off Btm: 2013.12.04 @ 23:46:16 TEST COMMENT: Slid 10 ft w eak 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 Presser wither Presser wither Presser time off Btm: 2013.12.04 @ 23:46:16 TEST COMMENT: Slid 10 ft weak surface blow then died Pulled it Presser wither Presser time off Btm: 2013.12.04 @ 23:46:16 Test SUMMARY Pressure Termp (Min) 0 1393.46 MS open To Flow (1) 35:13 88.48 (Open To Flow (1) 35:13 88.48 (Open To Flow (1)) 93:53.19 94:12 (Open To Flow (2)) 108 1581.34 95:41 Final Hydro-static 108 1581.34 95:41 Final Hydro-static 108 1581.34 95:41 Final Hydro-static 109 36:29 94:62 Shut-h(1) Final Hydro-static Recovery <u>Croke (mchea) Pressure (pelg) G</u>	A A	ITN: Jeff Law ler					
Deviated:       No       Whipstock:       ft (KB)       Test Type:       Conventional Bottom Ho         Time Tool Opened: 21:59:06       Test Edded:       01:25:56       Test::::::::::::::::::::::::::::::::::::	ERAL INFORMATION:						
Total Depth:       3420.00 ft (KB) (TVD)       2047.00         Hole Danneter:       7.88 inchesHole Condition: Good       KB to GRVCF:       8.00         Serial #:       8898       Outside       2013.12.04       End Date:       2013.12.05       Last Calib.:       2013.12.04       2013.12.05         Start Date:       2013.12.04       End Date:       2013.12.05       Time On Btm:       2013.12.04 @ 2158.26       Time On Btm:       2013.12.04 @ 2158.26         TEST COMMENT:       Skid 10 ft weak surface blow started at 1 1/4 in and stayed Dead no blow back Dead no blow back Dead no blow back Dead no blow back Dead no blow flushed tool surge blow then died Pulled it       Time       Pressure Termp       Annotation         Image: the time in time in time in the time in time in the time in the time in the time in time in the tin the time in time in the time in time in time in the ti	ted: No Whipstock: Tool Opened: 21:59:06	ft (KB)		Tester:	Tate I		Hole (Initial)
Press@RunDepth: 35.76 psig @ 3384.00 ft (KB) Capacity: 8000.00 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 flushed tool surge blow then died Pulled it Pressure vs. Time Pressure vs. Time Pressure vs. Time Pressure vs. Time Recovery Capacity: 2013.12.04 @ 21:58:36 Time On Btm: 2013.12.04 @ 23:46:16 Time Off Btm: 2013.12.04 @ 21:58:36 Time Off Btm: 2013.12.04 @ 21:5	Depth: 3420.00 ft (KB) (TVD)			Referer		2047.	00 ft (KB) 00 ft (CF) 00 ft
Pressure vs. Time       PRESSURE SUMMARY         Time       PRESSURE SUMMARY         Image: colspan="2">Image: colspan="2">Image: colspan="2">Image: colspan="2">Image: colspan="2">PRESSURE SUMMARY         Image: colspan="2">Image: colspan="2" Colspan="2	@RunDepth:       35.76 psig       @         Date:       2013.12.04         Time:       19:57:57         T COMMENT:       Slid 10 ft w eak surfa         Dead no blow back	End Date: End Time: ce blow started at 1 1/4 in and	01:25:56	Last Calib.: Time On Btm		2013.12. 12.04 @ 21:58:	05 36
Imme       Pressure       Temp       Annotation         Imme       (Min.)       (Sig)       (deg F)       Initial Hydro-static         1       35.13       88.63       Initial Hydro-static         1       35.13       91.47       Shut-In(1)         92       70.98       94.12       Open To Flow (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         immedee       immedee       immedee       Shut-In(2)         Final Hydro-static       Shut-In(2)       Shut-In(2)         Final Hydro-static       Final Hydro-static       Final Hydro-static         immedee       immedee       Static       Shut-In(2)         Final Hydro-static       Final Hydro-static       Final Hydro-static         immedee       immedee       Static       Static         immedee       immedee       Static       Static         immedee       immedee       Static       Static         immedee       immedee       Static       Static         immedee       immedee       Static       Static       Sta	Pressure vs. Time		Ture	· · · · ·			
Length (ft)         Description         Volume (bbl)         Choke (inches)         Pressure (psig)         Ga			(Min.) 0 1 32 92 93 107	(psig) (d 1893.46 35.13 35.76 70.98 35.31 36.29	eg F) 88.63 Initia 88.48 Ope 91.47 Shu 94.13 End 94.12 Ope 94.62 Shu	al Hydro-static en To Flow (1) t-ln(1) Shut-ln(1) en To Flow (2) t-ln(2)	
	-				Gas Ra	ites	
					Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

	DRI	ILL STEM TEST RE	PORT	-		LUID S	JMMARY
RILOBITE	Imperia	al America Operating INC		4-11-20-EI			
TESTING , INC.	9915 V	W 21 st STE B		Veatch Fa	amily Trust		
		a KS 67205		Job Ticket: 5	-	DST#:1	
	ATTN:	: Jeff Law ler		Test Start: 2	2013.12.04 @ 19	):57:56	
Mud and Cushion Information							
Mud Type:Gel ChemMud Weight:8.00 lb/galViscosity:50.00 sec/qtWater Loss:7.99 in³Resistivity:ohm.m		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:		ft bbl psig	Oil API: Water Salinity:		deg API ppm
Salinity: 500.00 ppm Filter Cake: inches							
Recovery Information							
		Recovery Table			-		
Leng	th	Description		Volume bbl			
	15.00	Mud w ith oil spots		0.074	1		
Total Length:	15	5.00 ft Total Volume:	0.074 bbl				
Laboratory Nar Recovery Com		Laboratory Location:					

Printed: 2013.12.05 @ 08:13:02

Ref. No: 55843





Outside Imperial America Operating INC

Veatch Family Trust

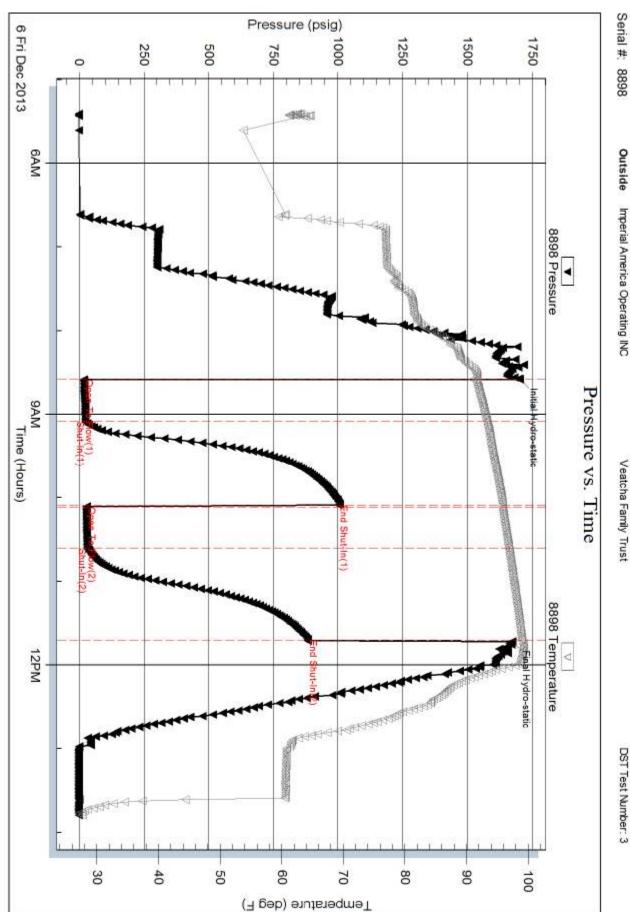
RILOBITE	DRILL STEM TE	ST REP	ORT			
	Imperial America Operating INC	;	4-1	1-20-Elli	is Co	
ESTING , INC	9915 W 21 st STE B Wichita KS 67205				amily Tru	
				Ticket: 55		DST#: 3
all all a second and a second	ATTN: Jeff Law ler		Tes	t Start: 20	)13.12.06 @	05:24:27
GENERAL INFORMATION:						
Formation:LKC H-LDeviated:NoWhipstock:Time Tool Opened:08:34:57Time Test Ended:13:47:27	ft (KB)		Tes	ter:	Conventiona Tate Lang 49	l Bottom Hole (Reset)
Interval:3490.00 ft (KB) To3Total Depth:3566.00 ft (KB) (ToHole Diameter:7.88 inches Hole			Refe	erence ⊟e KB t	evations:	2055.00 ft (KB) 2047.00 ft (CF) 8.00 ft
Serial #: 8898 Outside						
Press@RunDepth: 33.89 psig 2013.12.06	End Date:	2013.12.06	Capacity Last Calil	b.:		8000.00 psig 2013.12.06
Start Time: 05:24:28	End Time:	13:47:27	Time On Time Off		2013.12.06( 2013.12.06(	-
Dead no blow b			Pf	RESSUF	RE SUMM	ARY
1750	5558 Temperature	Time	Pressure	Temp	Annotatic	
1500		(Min.) 0	(psig) 1701.97	(deg F) 91.75	Initial Hydro	o-static
		1	18.64 24.55	90.97 93.32	· ·	low (1)
		91	1002.88	95.94	End Shut-Ir	
700			28.93 33.89	95.80 96.91	Open To Fl Shut-In(2)	low (2)
		92 122 188 188 189	884.75 1672.93	98.99 99.13	End Shut-Ir	
FriDec 2013 Time (House						
Recovery				-	s Rates	
Length (ft)         Description           5.00         100%O	Volume (bbl)			Choke (i	Pressu	re (psig) Gas Rate (Mcf/d)
10.00 30%O 70%M	0.05					
		1				
* Recovery from multiple tests						

10x-	RILOBITE	DRII	LL STEM TEST F	REPORT	-		FLUID S	UMMARY
		Imperial	America Operating INC		4-11-20-EI	lis Co		
	ESTING , INC.		21 st STE B		Veatcha F	amily Trust	t	
		Wichita	KS 67205		Job Ticket: 5	5845	DST#: 3	
NO.		ATTN:	Jeff Law ler		Test Start: 2	013.12.06 @ 0	5:24:27	
Mud and Cu	shion Information							
• •	el Chem		Cushion Type:			Oil API:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity: Water Loss:	41.00 sec/qt 9.59 in³		Cushion Volume: Gas Cushion Type:		bbl			
Resistivity:	ohm.m		Gas Cushion Pressure	<b>-</b> .	psig			
Salinity:	3000.00 ppm				pe.9			
Filter Cake:	inches							
Recovery In	formation							
	[		Recovery Table		\/-L.	1		
	Lengt ft	ih	Description		Volume bbl			
			100%O		0.025	-		
		10.00	30%O 70%M		0.049	<u>)</u>		
	Total Length:	15.0	00 ft Total Volume:	0.074 bbl				
	Recovery Com	nents:						
Trilobite Tes	ting, Inc	Re	ef. No: 55845		Printed	: 2013.12.06 @	) 14:13:29	

Printed: 2013.12.06 @ 14:13:29

Ref. No: 55845

Trilobite Testing, Inc



Outside Imperial America Operating INC

Veatcha Family Trust

RILOBITE	DRILL STEM TES	ST REP	ORT				
	Imperial America Operating INC		4-11	-20-Elli	s Co		
ESTING , IM	9915 W 21 st STE B Wichita KS 67205				amily Tru		
	ATTN: Jeff Law ler			Ficket: 55	6846 013.12.06 @	DST	
vi)	ATTIN. Jeri Lawier		Test	Start. 20	/13.12.00 @	g 22.10.1	I
GENERAL INFORMATION:							
Formation: Conglonmerate-J Deviated: No Whipstock: Fime Tool Opened: 00:15:07 Fime Test Ended: 05:05:37	ft (KB)		Test Teste Unit I	er: 7	Convention Tate Lang 49	al Bottom	Hole (Reset)
Total Depth: 3660.00 ft (KB) (	<b>3660.00 ft (KB) (TVD)</b> IVD) le Condition: Good		Refe	rence Ele KB to	evations: o GR/CF:	2047.	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 8898OutsidePress@RunDepth:66.76 psigStart Date:2013.12.06Start Time:22:10:18	End Date:	2013.12.07 05:05:37	Capacity: Last Calib Time On E Time Off E	.: Btm: 2	2013.12.07 2013.12.07	2013.12. @ 00:14:	:57
Dead no blow	oack olow built to 9 in oack	1					
Pressure vs	Time 2355 Imposite	Time	PR Pressure	ESSUR Temp	RE SUMM		
173 193 193 193 193 193 193 193 19		(Min.) 0 1 31 90 91 120	(psig) 1760.84 22.40 48.12 1157.36 51.38 66.76 1145.57 1683.12	(deg F) 89.12 88.32 94.50 97.18	Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut-	ro-static Flow (1) In(1) Flow (2) In(2)	
Recovery			Į_	Gas	s Rates		
Length (ft) Description	Volume (bbl)			Choke (ir	nches) Press	ure (psig)	Gas Rate (Mcf/d)
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           0.00         100 GIP	0.28						
Recovery from multiple tests	I						

RILOBITE	DRILL STEM TES	ST REP	ORT		
	Imperial America Operating INC		4-11-20-E	llis Co	
ESTING , INC	9915 W 21 SL SIE D		Veatcha	Family Tru	ıst
	Wichita KS 67205		Job Ticket:		DST#: 4
	ATTN: Jeff Law ler		Test Start:	2013.12.06 @	22:10:17
GENERAL INFORMATION:					
Formation:Conglormerate-AndDeviated:NoWhipstock:Time Tool Opened:00:15:07Time Test Ended:05:05:37	ft (KB)		Test Type: Tester: Unit No:	Conventiona Tate Lang 49	al Bottom Hole (Reset)
Total Depth: 3660.00 ft (KB) (T	660.00 ft (KB) (TVD) ∀D) e Condition: Good		Reference	Elevations: B to GR/CF:	2055.00 ft (KB) 2047.00 ft (CF) 8.00 ft
Serial #: 8897InsidePress@RunDepth:psigStart Date:2013.12.06Start Time:22:10:27	@ 3592.00 ft (KB) End Date: End Time:	2013.12.07 05:05:26	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2013.12.07
TEST COMMENT: Fair surface blo Dead no blow b Good surface bl Dead no blow b Pressure rs.	ack low built to 9 in ack		20500		
Fressine vs Bit/ Hessue	25W Impenance	Time	PRESS	JRE SUMM	
Dou 250		(Min.)	(psig) (deg l		
Recovery			0	as Rates	
Length (ft) Description	Volume (bbl)		Chol	æ (inches) Pressu	ure (psig) Gas Rate (Mcf/d)
62.00         5%G 5%O 90%M           62.00         10%G 45%O 45%M	0.60				
20.00 60%G 40%O	0.28				
0.00 100 GIP	0.00				
* Recovery from multiple tests	· · · · · · · · · · · · · · · · · · ·				

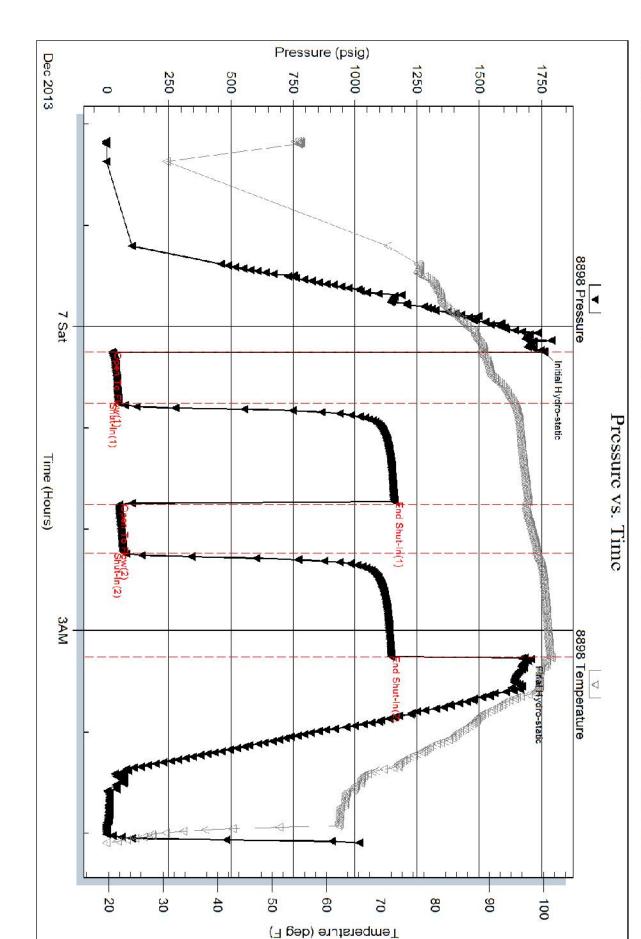
Trilobite Testing, Inc

(ON TR	ILOBITE		ILL STEM TEST REPOR	RE		FLUID SUMM
		Imperia	al America Operating INC	4-11-20-E	llis Co	
	ESTING , INC	3313 1	V 21 st STE B a KS 67205	Veatcha	Family Trust	DST#:4
		ATTN:	Jeff Law ler		2013.12.06 @ 2	-
lud and Cushic	on Information	ļ				
/ater Loss: esistivity:	em 9.00 lb/gal 50.00 sec/qt 7.19 in <sup>3</sup> ohm.m 000.00 ppm		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg A ppm
ilter Cake:	1.00 inches					
ecovery Inforn	nation					
			Recovery Table		_	
	Leng		Description	Volume bbl		
		62.00	5%G 5%O 90%M	0.59	16	
		62.00	10%G 45%O 45%M	0.87	-	
		~~ ~~	60%G 40%O	0.28	1	
		20.00			1	
	Total Length:	0.00	100 GIP	0.00	1	
	Total Length: Num Fluid Sam Laboratory Na Recovery Com	0.00 144 ples: 0 me:		0.00		
	Num Fluid Sam	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		
	Num Fluid Sam Laboratory Na	0.00 144 ples: 0 me:	100 GIP 1.00 ft Total Volume: 1.747 bt Num Gas Bombs: 0	0.00 bl		

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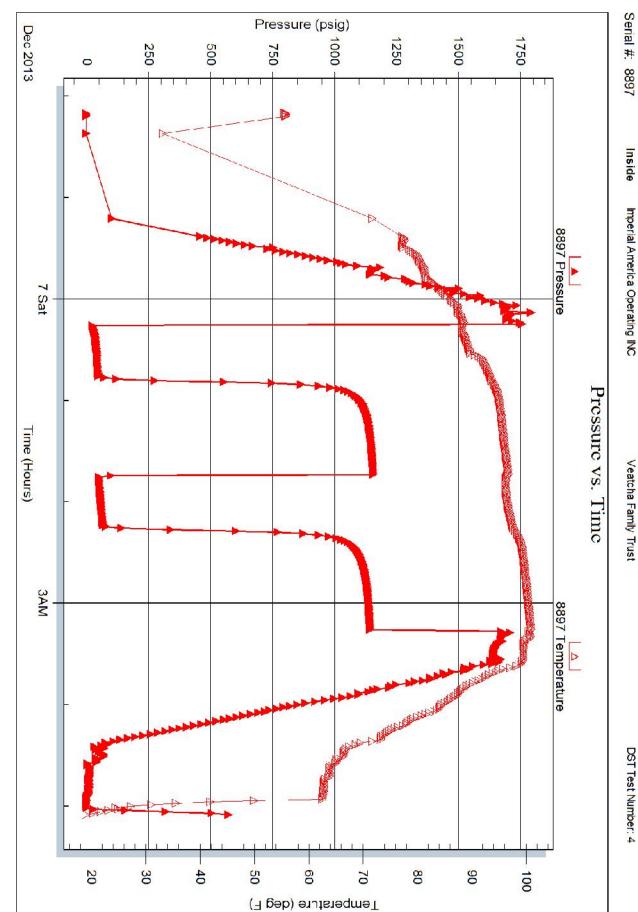
Serial #: 8898 Outside Imperial America Operating INC

Veatcha Family Trust

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Ref. No: 55846

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Imperial America Operating INC

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