

#### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1146277

Form ACO-1 June 2009 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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd.  CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:   Deepening Re-perf. Conv. to ENHR Conv. to SWD   Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	

#### **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						
Letter of Confidentiality Received						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

Side Two



Operator Name:			Lease Name: _			_ Well #:	
Sec Twp	S. R	East West	County:				
time tool open and cle recovery, and flow rate	osed, flowing and shu	nd base of formations pe at-in pressures, whether est, along with final chart well site report.	shut-in pressure rea	ched static level,	hydrostatic press	sures, bottom h	nole temperature, fluid
Drill Stem Tests Take		☐ Yes ☐ No		og Formatio	n (Top), Depth ar	nd Datum	Sample
Samples Sent to Geo	ological Survev	☐ Yes ☐ No	Nam	ne		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Cop	ed Electronically	Yes No Yes No Yes No					
List All E. Logs Run:							
			B RECORD No	ew Used ermediate, product	ion, 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
		ADDITIONA	L CEMENTING / SQI	JEEZE RECORD	1		
Purpose:  —— Perforate —— Protect Casing	Depth Top Bottom	Type of Cement	# Sacks Used Type and Percent Additives				
—— Plug Back TD —— Plug Off Zone							
Shots Per Foot	PERFORATI Specify	ON RECORD - Bridge Plu Footage of Each Interval Pe	gs Set/Type rforated		cture, Shot, Cemen mount and Kind of Ma		d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No	1	
Date of First, Resumed	d Production, SWD or EN	IHR. Producing Me		Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wat	ter B	bls.	Gas-Oil Ratio	Gravity
	ION OF GAS:		METHOD OF COMPLI			PRODUCTIO	ON INTERVAL:
Vented Sole	d Used on Lease	Open Hole	Perf. Dually (Submit		mmingled mit ACO-4)		



PO Box 93999 Southlake, TX 76092

Voice: Fax:

(817) 546-7282 (817) 246-3361

Bill To:

Werth Exploration Trust 1308 Schwaller Hays, KS 67601

Invoice Number: 136298

Invoice Date: May 17, 2013 1

Page:

Now Includes:



Customer ID	Field Ticket #	Payment Terms  Net 30 Days  Service Date  Due Date	
Werth	54197		
Job Location	Camp Location		
KS2-01	Russell	May 17, 2013	6/16/13

Quantity	Item	Description	Unit Price	Amount
		Worcester M #2		
175.00	MAT	Class A Common	17.90	3,132.5
3.00	MAT	Gel	23.40	70.2
6.00	MAT	Chloride	64.00	384.0
188.51	SER	Cubic Feet	2.48	467.
499.67	SER	Ton Mileage	2.60	1,299.
1.00	SER	Surface	1,512.25	1,512.
58.00	SER	Pump Truck Mileage	7.70	446.0
58.00	SER	Light Vehicle Mileage	4.40	255.
3.00	SER	Waiting on Location No Charge		
3.00	SER	Waiting on Location	440.00	1,320.
1.00	CEMENTER	Tony Pfannenstiel		
1.00	OPER ASSIST	Nathan Donner		
1.00	OPER ASSIST	Joe Goodson		
		Subtotal		8,887.

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

> \$ 2,221.85

ONLY IF PAID ON OR BEFORE Jun 11, 2013

Subtotal	8,887.40
Sales Tax	270.80
Total Invoice Amount	9,158.20
Payment/Credit Applied	
TOTAL	9,158.20

# ALLIED OIL & GAS SERVICES, LLC 054197 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 6766	55		SERV	VICE POINT:	ell ks
Worcester M #2		CALLED OUT	ON LOCATION	JOB START	LIOB FINISH
DATE 5 17 13 91 7	RANGE Z.				STATE
LEASE WELL#	LOCATION B	ogue its	171.0	COUNTY	165
OLD OR NEW (Circle one)	Ly 24 \$ 18	4 W to	rd 5/0 )n	H into	
CONTRACTOR ZUMILE K	132t	OWNER			
TYPE OF JOB SWEFACE HOLE SIZE /2/4 T.D.		CEMENT	400		, ,
CASING SIZE 8 % DEI	TH 223.40	AMOUNTO	CC 21/2	75 s/c C	ALL A
	PTH PTH		20 27.	)*1	
TOOL DEI	TH	COMMON_	175s16	@ 17.90	\$3,132.50
	NIMUM DE JOINT	POZMIX _		@	
CEMENT LEFT IN CSG.		GEL _	3 5/6	@ <u>23.90</u>	\$ 70.20
PERFS. DISPLACEMENT /3 28	1120	CHLORIDE _ ASC		@	7.30 7.00
EQUIPMENT				@	
	0	_			
PUMPTRUCK CEMENTER 12 HELPER NAM	an D				_
BULK TRUCK				@	
# 473 DRIVER JUBULK TRUCK	ne G			@	_
# DRIVER		— HANDLING	188.51 F/3	@22.48	\$ 467.51
		MILEAGE _	499.67 7/m	2.40	\$51,299.19
REMARKS:	r cotial			TOTA	L\$ 5,357.35
A circulated much		_	SERV	ICE	
	- 26.60 31M			12	3.48
Displaced animal of 1:	3.28 0.20	DEPTH OF J PUMP TRUC	OB CK CHARGE	7.0	B1,512.25
cenut circulated to	Sur fece.	EXTRA FOC	TAGE	_@	~
	Alan		LISA 58m	@ 4.40	\$ 446.60 \$255.20
	VV	<i></i>		@ @440w	
CHARGE TO: Werth Expl	=======================================	- 3her 1	way fine		. /
	772	TOTAL	3 hr. x4401	TOTA	L. B. 2, 274.05
STREET	Total de la constante de la co			• •	\$ 3,534.05
CITYSTATE	ZIP		PLUG & FLOA	AT EQUIPME	ENT
			. '	<u> </u>	
			)		
To: Allied Oil & Gas Services, LLC		**		@	
You are hereby requested to rent ce	menting equipmer	ıt —		@	
and furnish cementer and helper(s) contractor to do work as is listed. T	to assist owner or The above work wa	aš			
done to satisfaction and supervision	of owner agent of	Г	61179	7 TOTA	
contractor. I have read and understa TERMS AND CONDITIONS" liste	and the "GENERA	AL SALES TAX	(If Any)	8,887.4	<u>k</u> .
TERMS AND CONDITIONS Have	d on the levelse of	TOTAL CHA	ARGES 15-7	667-64O	
PRINTED NAME John & B.	e ken	DISCOUNT	# 2221		AID IN 30 DAYS
. ~		1.100		BS	5-20
SIGNATURE - Fal Bre	fu	_ volot	,	net 6	665.55
			1	,	
,		- 21			
					2

presented Federal Tax I.D.# 20-5975804 SERVICE POINT: REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 (Juster) Worcester CALLED DUT ON LOCATION 108 START 108 FINISH RANGE DATE 5.23.13 700 Am COUNTY LOCATION BOSNE KS EBASEL BrOOKER WHELE OLD OR NEW (Circle one) 30 27hite Knight OWNER CONTRACTOR TYPE OF JOB CEMENT T.D. HOLE SIZE AMOUNT ORDERED , 205 DEPTH CASING SIZE TUBING SIZE DEPTH DRILL PIPE DEPTH DEPTH TOOL 123 SE COMMON. PRES. MAX MINIMUM POZMIX MEAS, LINE SHOE JOINT CEL 0 234 CEMENT LEFT IN CSO. CHLORIDE 190 PERFS. See TREMANKE 69 ASC DISPLACEMENT EQUIPMENT 69 6 PUMP TRUCK CEMENTER 0 # 409 14/401 HELPER 0 BULK TRUCK 0 # 481 0 BULK TRUCK 69 @ 248 DRIVER HANDLING 220. MELEAGE 633.02 REMARKS: SERVICE DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE \$ 996.60 MILHAGE Degry 58 m @ 7.70 4010 1050 MANIPOLD 149 1 68 10 4.40 \$ 255.20 total In worden fly REGHOLE-BOOK STATE PLUG & FLOAT EQUIPMENT 1 x 8/2 wooden Plus 0 63 To: Allied Oil & Gas Services, LLC. 60 You are hereby requested to rent cementing equipment and furnish comenter and helper(s) to assist owner or TOTAL \$ 107-64 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 621.76 SALES TAX (If Any) TERMS AND CONDITIONS\* listed on the reverse side. IF PAID IN 30 DAYS PRINTED NAME, erry Chist

ALLIED OIL & GAS SERVICES, LLC 056608



Prepared For: Werth Exploration Trust LLC

1308 Schwaller Avenue Hays, Kansas 67601+2242

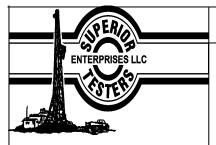
ATTN:

#### Worcester M#2

#### 21/7S/22W/Graham

Start Date: 2013.05.21 @ 18:00:00 End Date: 2013.05.22 @ 00:56:30 Job Ticket #: 17495 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902



Werth Exploration Trust LLC

1308 Schwaller Avenue Hays, Kansas 67601+2242

ATTN:

#### 21/7S/22W/Graham

#### Worcester M#2

Job Ticket: 17495 **DST#:1** 

Test Start: 2013.05.21 @ 18:00:00

#### **GENERAL INFORMATION:**

Formation: Lansing/Kansas City

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:30 Time Test Ended: 00:56:30

Interval: 3546.00 ft (KB) To 3573.00 ft (KB) (TVD)

Total Depth: 3573.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Sw inney

Unit No: 3325 Hays/118

Reference Elevations: 2264.00 ft (KB)

2259.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6749 Inside

Press@RunDepth: 434.58 psia @ 3569.00 ft (KB) Capacity: 5000.00 psia

 Start Date:
 2013.05.21
 End Date:
 2013.05.22
 Last Calib.:
 2013.05.22

 Start Time:
 18:00:00
 End Time:
 00:56:30
 Time On Btm:
 2013.05.21 @ 19:54:00

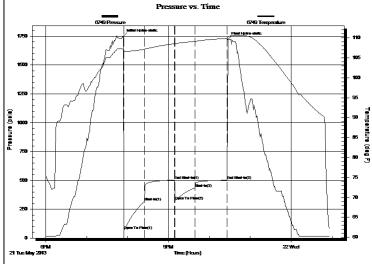
 Time Off Btm:
 2013.05.21 @ 22:27:00

TEST COMMENT: 1ST Open 30 Minutes/Good blow/Blow built to bottom of bucket in 3 minutes 30 seconds

1ST Shut In 45 Minutes/No blow back

2ND Open 30 Minutes/Fair blow/Blow built to bottom of bucket in 8 minutes

2ND Shut In 45 Minutes/No blow back



#### PRESSURE SUMMARY

1	Time	Pressure	Temp	Annotation
	(Min.)	(psia)	(deg F)	
	0	1749.42	107.17	Initial Hydro-static
	1	66.94	106.75	Open To Flow (1)
	31	316.64	107.16	Shut-In(1)
	75	503.68	108.57	End Shut-In(1)
	76	324.09	108.53	Open To Flow (2)
	105	434.58	109.16	Shut-In(2)
	152	502.16	109.88	End Shut-In(2)
,	153	1723.27	110.20	Final Hydro-static

#### Recovery

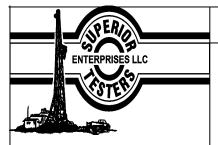
Length (ft)	Description	Volume (bbl)
868.00	868.00 Muddy Water with show of oil	
0.00	Mud 10% Water 90%	0.00
0.00	0.00 Recovery Chlorides 60,000 ppm	
0.00 Recov. Resist16 @ 65 deg		0.00

Ref. No: 17495

#### Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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Printed: 2013.05.22 @ 01:14:17



Werth Exploration Trust LLC

1308 Schwaller Avenue Hays, Kansas 67601+2242

ATTN:

#### 21/7S/22W/Graham

Worcester M#2

Unit No:

Job Ticket: 17495 DST#: 1

Test Start: 2013.05.21 @ 18:00:00

#### **GENERAL INFORMATION:**

Lansing/Kansas City

Deviated: Whipstock: ft (KB)

Time Tool Opened: 19:54:30 Time Test Ended: 00:56:30

3546.00 ft (KB) To 3573.00 ft (KB) (TVD) Interval:

Total Depth: 3573.00 ft (KB) (TVD)

7.80 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Tester: Ken Sw inney

3325 Hays/118

Reference Elevations:

2264.00 ft (KB) 2259.00 ft (CF)

> KB to GR/CF: 5.00 ft

Serial #: 6838 Outside

Press@RunDepth: 5000.00 psia 500.67 psia @ 3570.00 ft (KB) Capacity:

Start Date: 2013.05.21 End Date: 2013.05.22 Last Calib.: 2013.05.22

18:00:00 End Time: Start Time: 00:56:30 Time On Btm:

> 2013.05.21 @ 22:27:00 Time Off Btm:

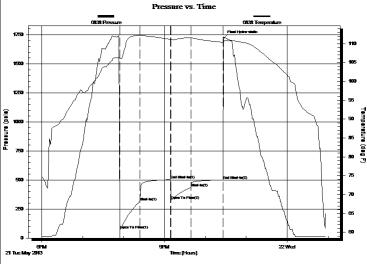
> > PRESSURE SUMMARY

TEST COMMENT: 1ST Open 30 Minutes/Good blow/Blow built to bottom of bucket in 3 minutes 30 seconds

> 1ST Shut In 45 Minutes/No blow back

2ND Open 30 Minutes/Fair blow/Blow built to bottom of bucket in 8 minutes

45 Minutes/No blow back 2ND Shut In



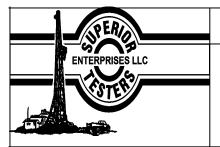
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psia)	(deg F)	
	0	70.40	106.12	Open To Flow (1)
	30	315.53	112.20	Shut-In(1)
	75	503.62	111.13	End Shut-In(1)
	75	325.32	111.20	Open To Flow (2)
	105	435.30	111.51	Shut-In(2)
	152	500.67	110.34	End Shut-In(2)
(d)	153	1724.69	110.66	Final Hydro-static
9				

#### Recovery

Description	Volume (bbl)
Muddy Water with show of oil	
Mud 10% Water 90%	0.00
0 Recovery Chlorides 60,000 ppm	
0.00 Recov. Resist16 @ 65 deg	
	Muddy Water with show of oil Mud 10% Water 90% Recovery Chlorides 60,000 ppm

#### Gas Rates Choke (inches) Pressure (psia) Gas Rate (Mcf/d)

Superior Testers Enterprises LLC Printed: 2013.05.22 @ 01:14:17 Ref. No: 17495



**TOOL DIAGRAM** 

DST#: 1

Werth Exploration Trust LLC

21/7S/22W/Graham

1308 Schwaller Avenue Hays, Kansas 67601+2242 Worcester M#2

Job Ticket: 17495

ATTN:

Test Start: 2013.05.21 @ 18:00:00

**Tool Information** 

Drill Pipe:Length:3552.00 ftDiameter:Heavy Wt. Pipe:Length:0.00 ftDiameter:Drill Collar:Length:0.00 ftDiameter:

 3.80 inches Volume:
 49.83 bbl

 0.00 inches Volume:
 0.00 bbl

 0.00 inches Volume:
 0.00 bbl

Tool Weight: 2000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 50000.00 lb
Tool Chased 0.00 ft

Printed: 2013.05.22 @ 01:14:18

Drill Pipe Above KB: 26.00 ft
Depth to Top Packer: 3546.00 ft

Total Volume: 49.83 bbl Tool Chased 0.00 ft
String Weight: Initial 44000.00 lb
Final 47000.00 lb

Depth to Bottom Packer: ft
Interval betw een Packers: 27.00 ft
Tool Length: 47.00 ft

Diameter: 6.75 inches

Ref. No: 17495

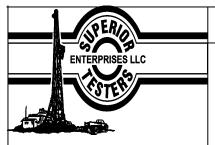
Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3531.00		
Hydrolic Tool	5.00			3536.00		
Packer	5.00			3541.00	20.00	Bottom Of Top Packer
Packer	5.00			3546.00		
Anchor	22.00			3568.00		
Recorder	1.00	6749	Inside	3569.00		
Recorder	1.00	6838	Outside	3570.00		
Bullnose	3.00			3573.00	27.00	Bottom Packers & Anchor

Total Tool Length: 47.00

2



**FLUID SUMMARY** 

Werth Exploration Trust LLC

21/7S/22W/Graham

1308 Schwaller Avenue Hays, Kansas 67601+2242 Worcester M#2

Job Ticket: 17495

DST#: 1

ATTN:

Test Start: 2013.05.21 @ 18:00:00

Printed: 2013.05.22 @ 01:14:18

#### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 7.09 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 400.00 ppm Filter Cake: 1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
868.00	Muddy Water with show of oil	12.176
0.00	Mud 10% Water 90%	0.000
0.00	Recovery Chlorides 60,000 ppm	0.000
0.00	Recov. Resist16 @ 65 deg	0.000

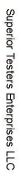
Total Length: 868.00 ft Total Volume: 12.176 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Ref. No: 17495

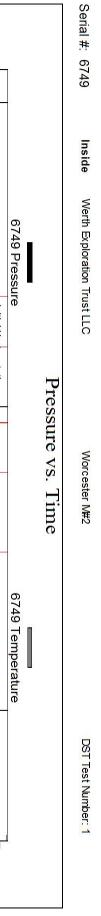
Recovery Comments:

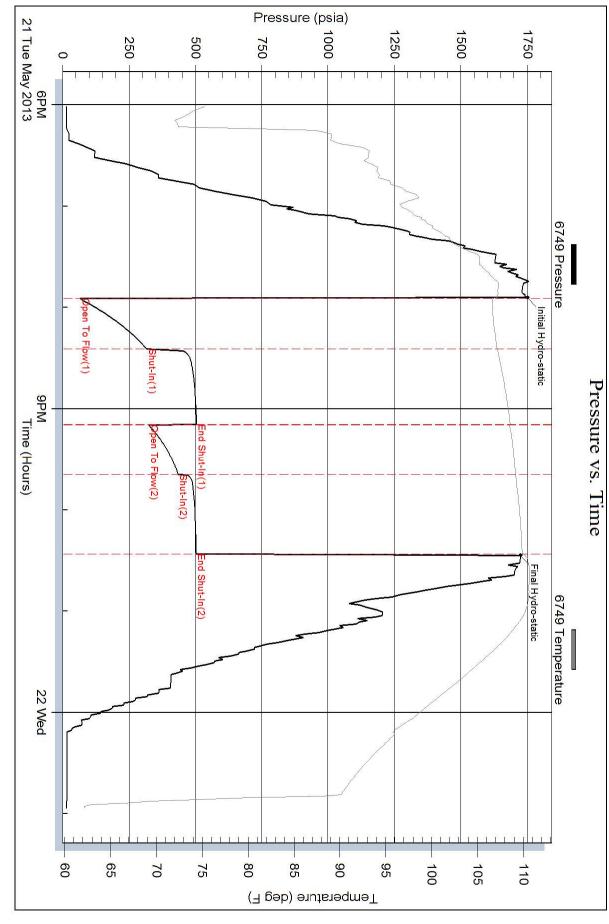


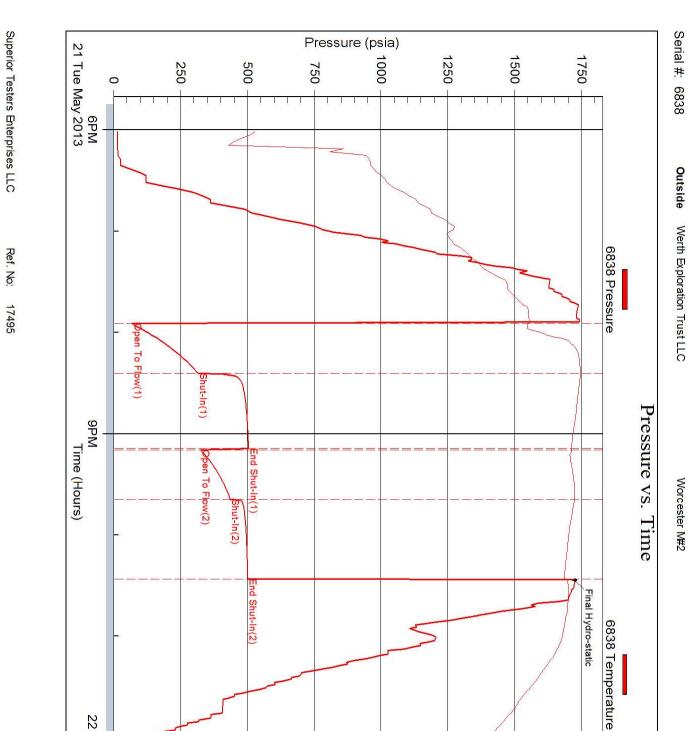




Printed: 2013.05.22 @ 01:14:18







Temperature (deg F)

DST Test Number: 1

22 Wed