



KANSAS CORPORATION COMMISSION 1108683
OIL & GAS CONSERVATION DIVISION

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 # _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1108683

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Valhalla Exploration LLC
Well Name	Morgenstern 1-33
Doc ID	1108683

All Electric Logs Run

DIL
MICRO
CDNL
SONIC



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

Date: 10/13/2012
 Invoice # 5385
 P.O.#:
 Due Date: 11/12/2012
 Division: *Russell*

Invoice

Contact:
 VALHALLA EXPLORATION
Address/Job Location:
 VALHALLA EXPLORATION
 133 N GLENDALE STREET
 WICHITA, KS 67208

Reference:
 MORGENSTERN 1-33

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	375	\$ 5,105.57	Yes				
Bulk Truck Mat-Material Service Charge	386	\$ 838.17	No				
Calcium Chloride	14	\$ 724.43	Yes				
Pump Truck Mileage-Job to Nearest Camp	13	\$ 140.86	No				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	13	\$ 82.43	No				

Invoice Terms:

Net 30		<i>SubTotal:</i> \$ 8,219.38
	<i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (1,232.91)
<hr/>		
	SubTotal for Taxable Items:	\$ 5,241.55
	SubTotal for Non-Taxable Items:	\$ 1,744.92
<hr/>		
	Total:	\$ 6,986.47
	Tax:	\$ 382.63
	Amount Due:	\$ 7,369.10
	Applied Payments:	
	Balance Due:	\$ 7,369.10

7.30% Barton County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 5385

Cell 785-324-1041

Date	10-10-12	Sec.	33	Twp.	17	Range	13	County	Barton	State	KS	On Location		Finish	4:30 PM
Lease	Morgenstern	Well No.	1-33		Location		Hoisington, KS - 1/2 N on Susank								
Contractor	Southwind #6				Owner		Rd. E/Into								
Type Job	Surface				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4"		T.D.		810'		Charge To								
Csg.	8 5/8"		Depth		811'		Valhalla Exploration								
Tbg. Size			Depth		Street										
Tool			Depth		City State										
Cement Left in Csg.	40'		Shoe Joint		40'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		49 BLS		Cement Amount Ordered 375 SX Common 3%cc 2 1/2 cc								

EQUIPMENT

Pumptrk	15	No.	Cementer	Nick	Common	375
			Helper			
Bulktrk	13	No.	Driver	Doug	Poz. Mix	
			Driver			
Bulktrk	p.u.	No.	Driver	Rick	Gel.	7
			Driver			

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	Calcium	14
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	386
		Mileage	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 - Baffle plate
	1 - Rubber plug
	Pumptrk Charge Long Surface
	Mileage 13

X Signature *[Handwritten Signature]*

Tax
Discount
Total Charge



PAGE	CUST NO	INVOICE DATE
1 of 1	1007761	10/17/2012
INVOICE NUMBER		
1718 - 91027810		

Pratt (620) 672-1201
 B VALHALLA EXPLORATION LLC
 I 133 NORTH GLENDALE
 L WICHITA
 L KS US 67208
 T
 O ATTN: KENNEDY

J LEASE NAME Morgenstern 1-33
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

RECEIVED OCT 23 2012

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40524151	20920		Net - 30 days	11/16/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 10/16/2012 to 10/16/2012</i>				
0040524151				
171806595A Cement-New Well Casing/Pi 10/16/2012				
Cement 5 1/2" Longstring				
50/50 POZ	150.00	EA	8.25	1,237.50 T
60/40 POZ	80.00	EA	9.00	720.00 T
Celloflake	38.00	EA	2.78	105.45 T
Gypsum	630.00	EA	0.56	354.38 T
FLA-322	63.00	EA	5.63	354.38 T
Gilsonite	750.00	EA	0.50	376.88 T
Mud Flush	500.00	EA	0.65	322.50 T
KCL Potassium Chloride	346.00	EA	1.13	389.25
Claymax KCL Substitute	4.00	EA	26.25	105.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	300.00	300.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	270.00	270.00
"Turbolizer, 5 1/2" (Blue)"	8.00	EA	82.50	660.00
"5 1/2" Basket (Blue)"	1.00	EA	217.50	217.50
"Unit Mileage Chg (PU, cars one way)"	60.00	MI	3.19	191.25
Heavy Equipment Mileage	120.00	MI	5.25	630.00
"Proppant & Bulk Del. Chgs., per ton mil	585.00	EA	1.20	702.00
Depth Charge; 3001-4000'	1.00	EA	1,619.99	1,619.99
Blending & Mixing Service Charge	230.00	BAG	1.05	241.50
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,116.33
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	261.05
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,377.38
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

RECEIVED NOV 19 2012



PAGE	CUST NO	INVOICE DATE
1 of 1	1007761	11/15/2012
INVOICE NUMBER		
1718 - 91051455		

Pratt (620) 672-1201
 B VALHALLA EXPLORATION LLC
 I 133 NORTH GLENDALE
 L WICHITA
 L KS US 67208
 T
 O ATTN: KENNEDY

J LEASE NAME Morgenstern 1-33
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40534669	20920		Net - 30 days	12/15/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/12/2012 to 11/12/2012</i>				
0040534669				
171807033A Cement-New Well Casing/Pi 11/12/2012 Cement Squeeze				
Common Cement	50.00	EA	12.00	600.00 T
C-53L	5.00	EA	90.00	450.00 T
"Unit Mileage Chg (PU, cars one way)"	60.00	MI	3.19	191.25
Heavy Equipment Mileage	120.00	MI	5.25	630.00
"Proppant & Bulk Del. Chgs., per ton mil	141.00	EA	1.20	169.20
Depth Charge; 3001-4000'	1.00	EA	1,620.00	1,620.00
Blending & Mixing Service Charge	50.00	BAG	1.05	52.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,844.20
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	76.65
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	3,920.85
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 07033 A

DATE _____ TICKET NO. _____

DATE OF JOB <i>11-12-12</i>	DISTRICT <i>KANSAS</i>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER <i>VALHALLA Exploration LLC</i>	LEASE	COUNTY <i>Morgansteron #1-33</i>					WELL NO.			
ADDRESS	CITY <i>Barton 33-11-13</i>		STATE <i>Ks.</i>		SERVICE CREW <i>Allen Joe, Steve</i>					
AUTHORIZED BY	EQUIPMENT#		HRS	EQUIPMENT#	HRS	JOB TYPE: <i>ASPH/EEZE</i>				
EQUIPMENT#		HRS	EQUIPMENT#		HRS	TRUCK CALLED	DATE	AM	PM	TIME
<i>28443</i>		<i>3 1/2</i>				ARRIVED AT JOB	<i>11-11-12</i>			<i>8:30</i>
<i>33768-26420</i>		<i>3 1/2</i>				START OPERATION	<i>11-12-12</i>			<i>9:30</i>
<i>19959-21010</i>		<i>3 1/2</i>				FINISH OPERATION	<i>11-12-12</i>			<i>1:00</i>
						RELEASED	<i>11-12-12</i>			<i>1:30</i>
						MILES FROM STATION TO WELL	<i>11-12-12</i>			<i>60-miles</i>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>EP100C</i>	<i>Common Cement</i>	<i>SK</i>	<i>50</i>		<i>\$ 800.00</i>
<i>CC132</i>	<i>C-53L</i>	<i>gal</i>	<i>5</i>		<i>\$ 600.00</i>
<i>E100</i>	<i>Unit Mileage Charge P.H.</i>	<i>Mi</i>	<i>60</i>		<i>\$ 255.00</i>
<i>E101</i>	<i>Heavy Equip. Mileage</i>	<i>Mi</i>	<i>120</i>		<i>\$ 840.00</i>
<i>E113</i>	<i>Bulk Del. Chg.</i>	<i>TW</i>	<i>141</i>		<i>\$ 225.60</i>
<i>CE204</i>	<i>Depth Charge 3001-4000'</i>	<i>4-hr</i>	<i>1</i>		<i>\$ 2160.00</i>
<i>CE240</i>	<i>Bleeding & Mixing Service Chg.</i>	<i>SK</i>	<i>50</i>		<i>\$ 70.00</i>
<i>S003</i>	<i>Service Supervisor first 8hrs.</i>	<i>EA</i>	<i>1</i>		<i>\$ 175.00</i>

SUB TOTAL *16* *\$ 3844.20*

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <i>Alan F. Weirich</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

Customer VAL HALLA Explor LLC		Lease No.		Date	
Lease Morgenstern		Well # 1-33		11-12-12	
Field Order # 070330	Station Pratt	Casing 3 1/2"	Depth	County Barton	State KS
Type Job DSQUEEZE		Formation Cmw	Arbuckle	Legal Description 33-17-13	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 3 1/2"	Tubing Size 2 1/8"	Shots/Ft 50 SR		Acid Common @ 14 # gal	RATE	PRESS	ISIP	
Depth	Depth	From 3344'	To 3345'	Pre Pad	Max		5 Min.	
Volume 32	Volume 10.93	From 3360'	To 3361'	Pad	Min		10 Min.	
Max Press 500 #	Max Press 2000 #	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	DISP-OIL	HHP Used		Annulus Pressure	
Plug Depth	Packer Depth 3770	From	To	Flush SALT & WATER	Gas Volume		Total Load	

Customer Representative Kelly Branum			Station Manager scotty			Treater Allen		
Service Units	28443	33708	20920	19959	21010			
Driver Names	Allen Joe	Molson Steve	Yoon					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:15 AM					ON Loc. Discuss Safety, Setup Plan Job
9:38			65		CIR Hole @ 3302 Long way.
10:21	500 #		8		Load ANN @ 3270 PSF 500 #
10:30		400 #		2 1/4	TAKE inj Rate
10:40					Pump 4 BBL OIL
				2	st mix 50 sks com. @ 14 #
			12		Finish mix
10:57		200 #	2		st Disp. Pump 2 BBL OIL
				1 1/2	start SALT water.
11:07		100 #	14		shut down 14 BBL TOTAL out
11:13					move cmt
11:18			18		shut down 18 BBL TOTAL out
11:39		2000 #			Bump Sp. 2000 # + stage
					Release to TRUCK - Dry
12:19 pm					Run 4 Its PKR @ 3397 Rev out
12:30			28	2	Pumped 28 BBLs clean.
					Pull 10 Its PKR @ 3081 (swing)
12:50		400 #			PSF up to 400 # + Shut IN
					washup + Rackup Equip
1:30					Job complete.
					Thanks Allen, Joe, Steve



DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration LLC.**

133 North Glendale ST.
Wichita Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-33

33-17s-13w-Barton

Start Date: 2012.10.13 @ 11:36:00

End Date: 2012.10.13 @ 17:29:30

Job Ticket #: 17856 DST #: 1

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

Printed: 2012.10.14 @ 03:48:24



DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17856

DST#: 1

Test Start: 2012.10.13 @ 11:36:00

GENERAL INFORMATION:

Formation: **Lansing H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:26:00
 Time Test Ended: 17:29:30
 Interval: **3260.00 ft (KB) To 3335.00 ft (KB) (TVD)**
 Total Depth: 3335.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-25
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

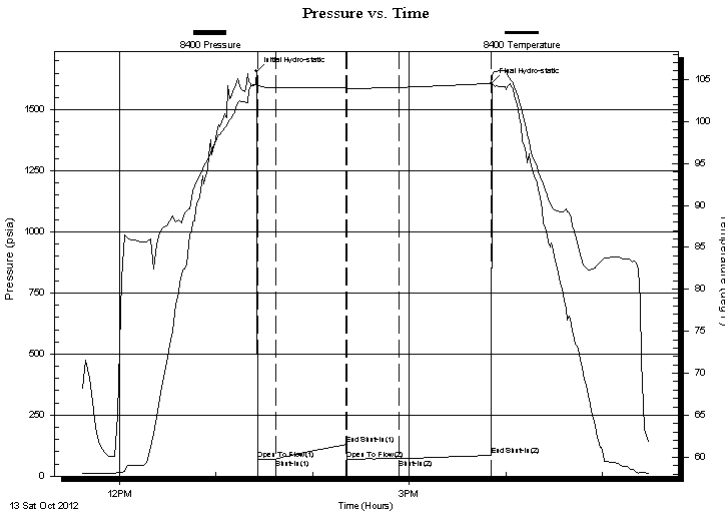
Serial #: 8400

Outside

Press @ RunDepth: 70.87 psia @ 3332.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.13 End Date: 2012.10.13 Last Calib.: 2012.10.14
 Start Time: 11:36:00 End Time: 17:29:30 Time On Btm: 2012.10.13 @ 13:25:00
 Time Off Btm: 2012.10.13 @ 15:51:30

TEST COMMENT: 1st Open 10 minutes Weak surface blow
 1st Shut in 45 minutes No blow back
 2nd Open 30 minutes Weak surface blow died off after 7 minutes.
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1658.01	104.51	Initial Hydro-static
1	67.25	104.24	Open To Flow (1)
12	69.48	104.04	Shut-In(1)
56	129.52	103.98	End Shut-In(1)
57	70.18	103.95	Open To Flow (2)
89	70.87	104.04	Shut-In(2)
146	84.99	104.53	End Shut-In(2)
147	1610.00	105.37	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Very lightly oil spotted mud 100%	0.07

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



DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17856

DST#: 1

Test Start: 2012.10.13 @ 11:36:00

GENERAL INFORMATION:

Formation: **Lansing H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:26:00

Time Test Ended: 17:29:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-25

Interval: 3260.00 ft (KB) To 3335.00 ft (KB) (TVD)

Reference Elevations: 1877.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

1869.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Inside

Press @ RunDepth: 85.19 psia @ 3331.98 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.13

End Date:

2012.10.13

Last Calib.: 2012.10.14

Start Time: 11:36:00

End Time:

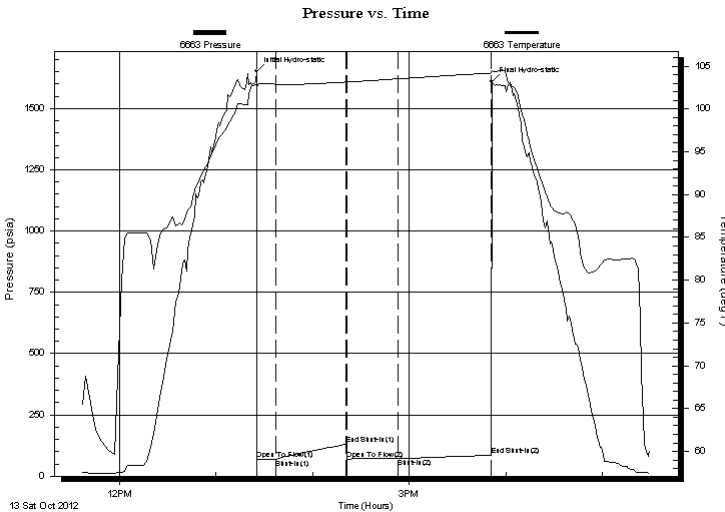
17:29:30

Time On Btm: 2012.10.13 @ 13:25:00

Time Off Btm: 2012.10.13 @ 15:51:30

TEST COMMENT: 1st Open 10 minutes Weak surface blow
 1st Shut in 45 minutes No blow back
 2nd Open 30 minutes Weak surface blow died off after 7 minutes.
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1652.14	102.80	Initial Hydro-static
1	66.84	102.51	Open To Flow (1)
12	69.33	102.90	Shut-In(1)
56	129.45	103.16	End Shut-In(1)
57	70.21	103.15	Open To Flow (2)
88	71.07	103.52	Shut-In(2)
146	85.19	104.20	End Shut-In(2)
147	1609.73	104.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Very lightly oil spotted mud 100%	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17856

DST#: 1

ATTN: Adam Kennedy

Test Start: 2012.10.13 @ 11:36:00

Tool Information

Drill Pipe:	Length: 3271.00 ft	Diameter: 3.80 inches	Volume: 45.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.88 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3260.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.98 ft			
Tool Length:	95.98 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3245.00	
Hydraulic Tool	5.00			3250.00	
Packer	5.00			3255.00	20.00 Bottom Of Top Packer
Packer	5.00			3260.00	
Anchor	6.00			3266.00	
Change Over Sub	0.75			3266.75	
Drill Pipe	31.48			3298.23	
Change Over Sub	0.75			3298.98	
Anchor	32.00			3330.98	
Recorder	1.00	6663	Inside	3331.98	
Recorder	1.00	8400	Outside	3332.98	
Bull Plug	3.00			3335.98	75.98 Bottom Packers & Anchor

Total Tool Length: 95.98



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17856

DST#: 1

ATTN: Adam Kennedy

Test Start: 2012.10.13 @ 11:36:00

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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Very lightly oil spotted mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

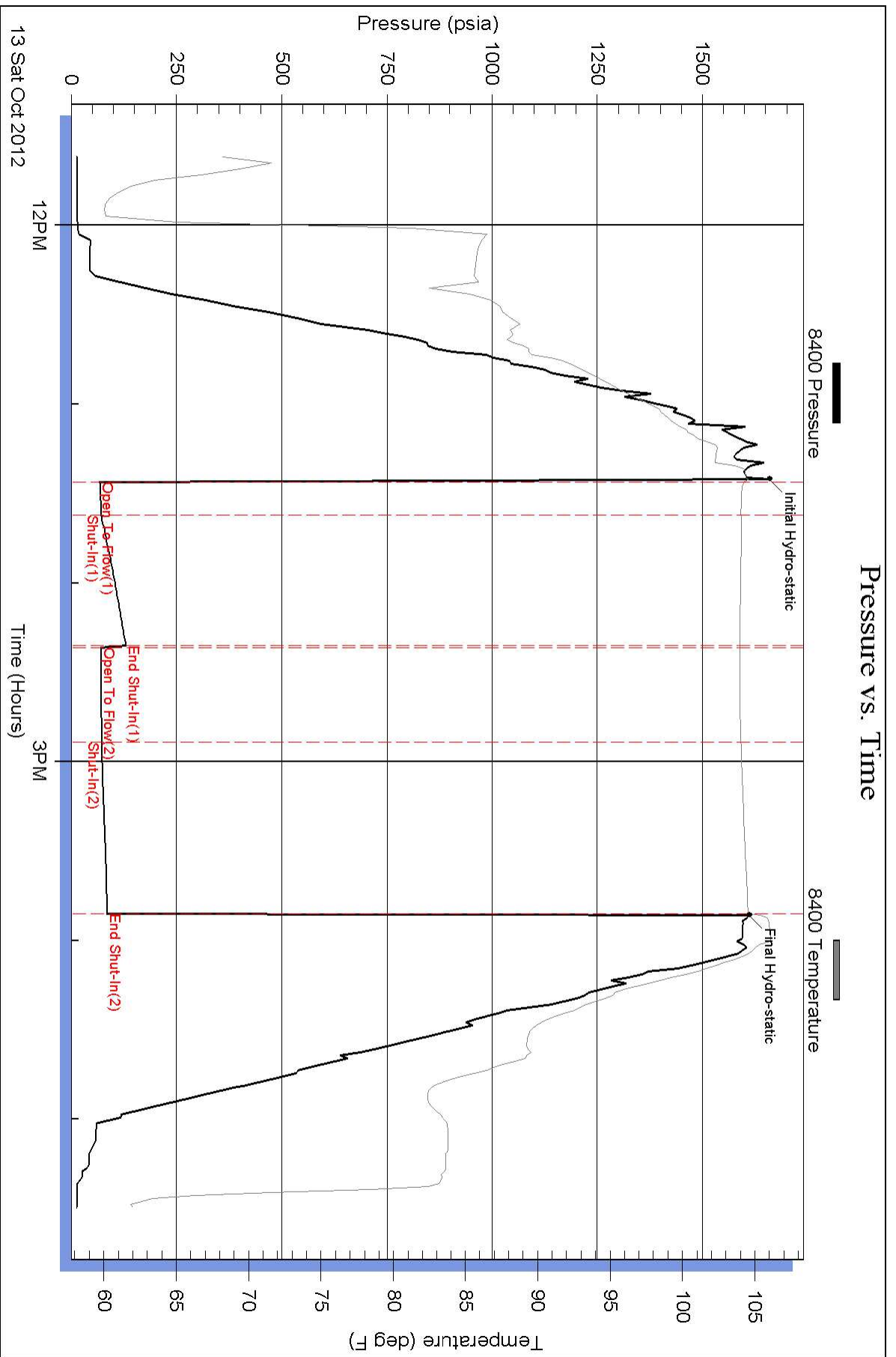
Num Gas Bombs: 0

Serial #:

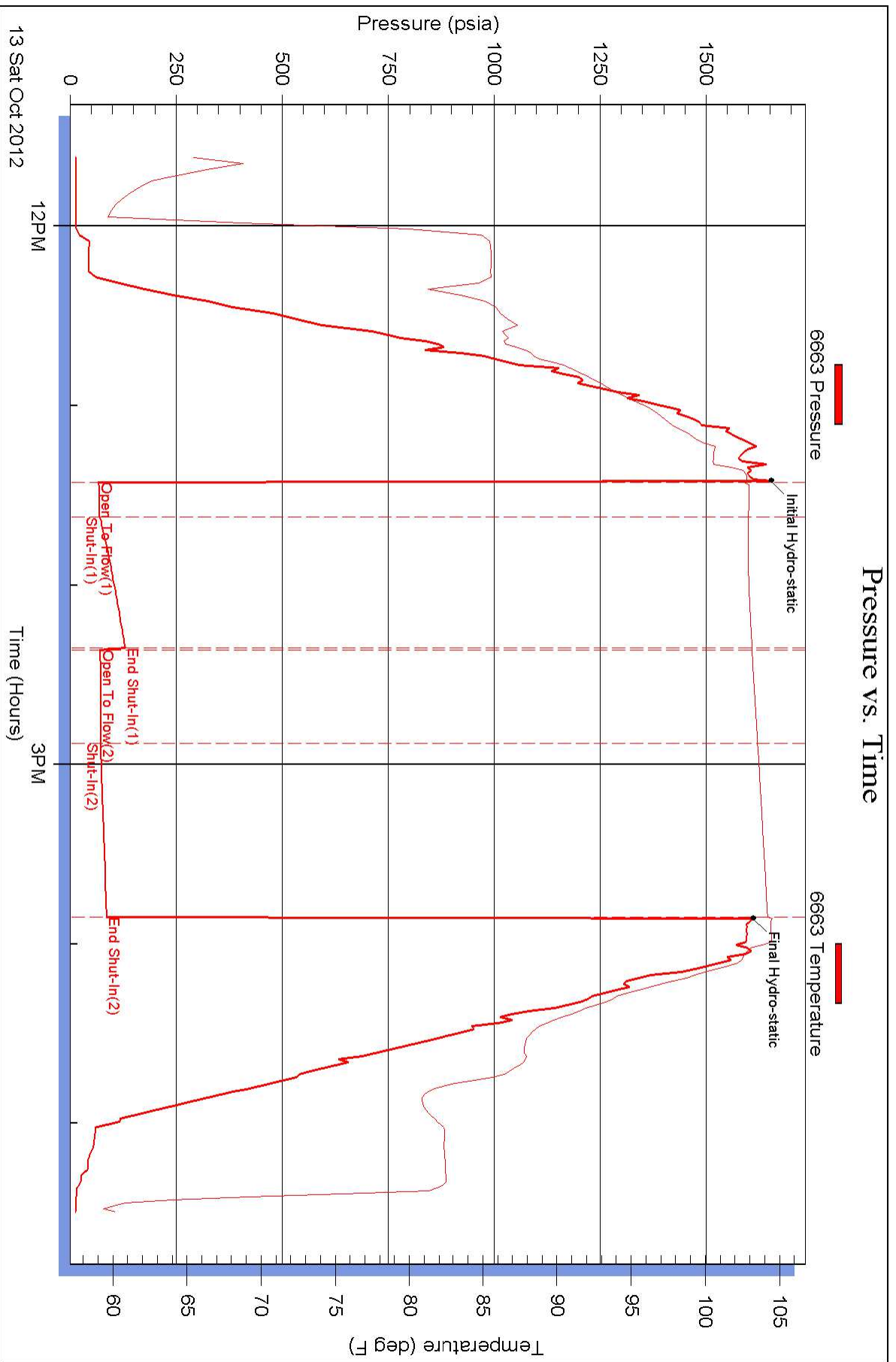
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration LLC.**

133 North Glendale ST.
Wichita Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-33

33-17s-13w-Barton

Start Date: 2012.10.14 @ 02:25:00

End Date: 2012.10.14 @ 08:42:30

Job Ticket #: 17857 DST #: 2

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

Printed: 2012.10.14 @ 19:08:56



DRILL STEM TEST REPORT

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17857

DST#: 2

ATTN: Adam Kennedy

Test Start: 2012.10.14 @ 02:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:53:30

Time Test Ended: 08:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-25

Interval: 3344.00 ft (KB) To 3364.00 ft (KB) (TVD)

Reference Elevations: 1877.00 ft (KB)

Total Depth: 3364.00 ft (KB) (TVD)

1869.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 308.81 psia @ 3361.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.14

End Date:

2012.10.14

Last Calib.:

2012.10.14

Start Time: 02:25:00

End Time:

08:42:30

Time On Btm:

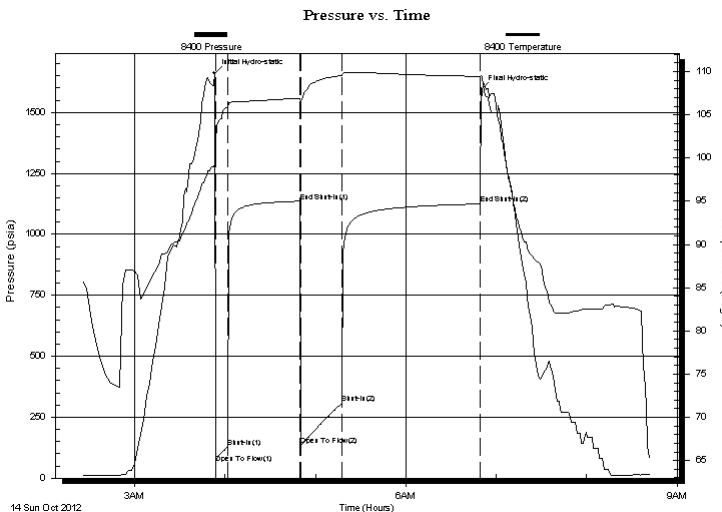
2012.10.14 @ 03:53:00

Time Off Btm:

2012.10.14 @ 06:50:00

TEST COMMENT: 1st Open 10 minutes Fair building blow blew bottom bucket 5 minutes.
1st Shut in 45 minutes No blow
2nd Open 30 minutes Fair building blow blew bottom bucket 5 minutes.
2nd Shut in 90 minutes No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1661.22	99.27	Initial Hydro-static
1	60.30	101.74	Open To Flow (1)
9	127.13	105.89	Shut-In(1)
57	1135.67	106.89	End Shut-In(1)
58	134.51	106.55	Open To Flow (2)
85	308.81	109.55	Shut-In(2)
177	1124.86	109.45	End Shut-In(2)
177	1595.21	109.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Oil cut watery mud	3.48
0.00	Oil 35%Mud30%Water35%	0.00
360.00	Water cut mud Water 95% Mud 5%	5.05
0.00	Chlorides 36,000@ 68 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17857

DST#: 2

Test Start: 2012.10.14 @ 02:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:53:30 Tester: Dustin Ellis
 Time Test Ended: 08:42:30 Unit No: 3315-Great Bend-25
 Interval: **3344.00 ft (KB) To 3364.00 ft (KB) (TVD)** Reference Elevations: 1877.00 ft (KB)
 Total Depth: 3364.00 ft (KB) (TVD) 1869.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

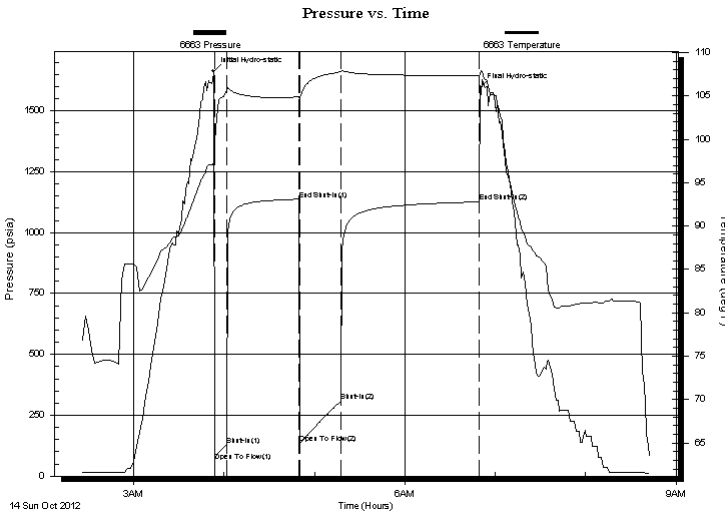
Serial #: 6663

Inside

Press @ Run Depth: 1124.80 psia @ 3360.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.14 End Date: 2012.10.14 Last Calib.: 2012.10.14
 Start Time: 02:25:00 End Time: 08:42:30 Time On Btm: 2012.10.14 @ 03:53:00
 Time Off Btm: 2012.10.14 @ 06:50:00

TEST COMMENT: 1st Open 10 minutes Fair building blow blew bottom bucket 5 minutes.
 1st Shut in 45 minutes No blow
 2nd Open 30 minutes Fair building blow blew bottom bucket 5 minutes.
 2nd Shut in 90 minutes No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1662.68	97.42	Initial Hydro-static
1	59.23	99.61	Open To Flow (1)
9	126.70	105.63	Shut-In(1)
57	1136.69	104.87	End Shut-In(1)
57	134.03	104.59	Open To Flow (2)
85	309.24	107.79	Shut-In(2)
177	1124.80	107.32	End Shut-In(2)
177	1596.74	107.44	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
248.00	Oil cut watery mud	3.48
0.00	Oil 35%Mud30%Water35%	0.00
360.00	Water cut mud Water 95% Mud 5%	5.05
0.00	Chlorides 36,000@ 68 degrees	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17857

DST#: 2

ATTN: Adam Kennedy

Test Start: 2012.10.14 @ 02:25:00

Tool Information

Drill Pipe:	Length: 3326.00 ft	Diameter: 3.80 inches	Volume: 46.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 46.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3344.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3321.00	
Hydraulic Tool	5.00			3326.00	
Jars	6.00			3332.00	
Safety Joint	2.00			3334.00	
Packer	5.00			3339.00	28.00 Bottom Of Top Packer
Packer	5.00			3344.00	
Anchor	15.00			3359.00	
Recorder	1.00	6663	Inside	3360.00	
Recorder	1.00	8400	Outside	3361.00	
Bull Plug	3.00			3364.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17857

DST#: 2

ATTN: Adam Kennedy

Test Start: 2012.10.14 @ 02:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.80 in³
Resistivity: 0.40 ohm.m
Salinity: 6700.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Oil cut watery mud	3.479
0.00	Oil 35%Mud30%Water35%	0.000
360.00	Water cut mud Water 95% Mud 5%	5.050
0.00	Chlorides 36,000@ 68 degrees	0.000

Total Length: 608.00 ft Total Volume: 8.529 bbl

Num Fluid Samples: 0

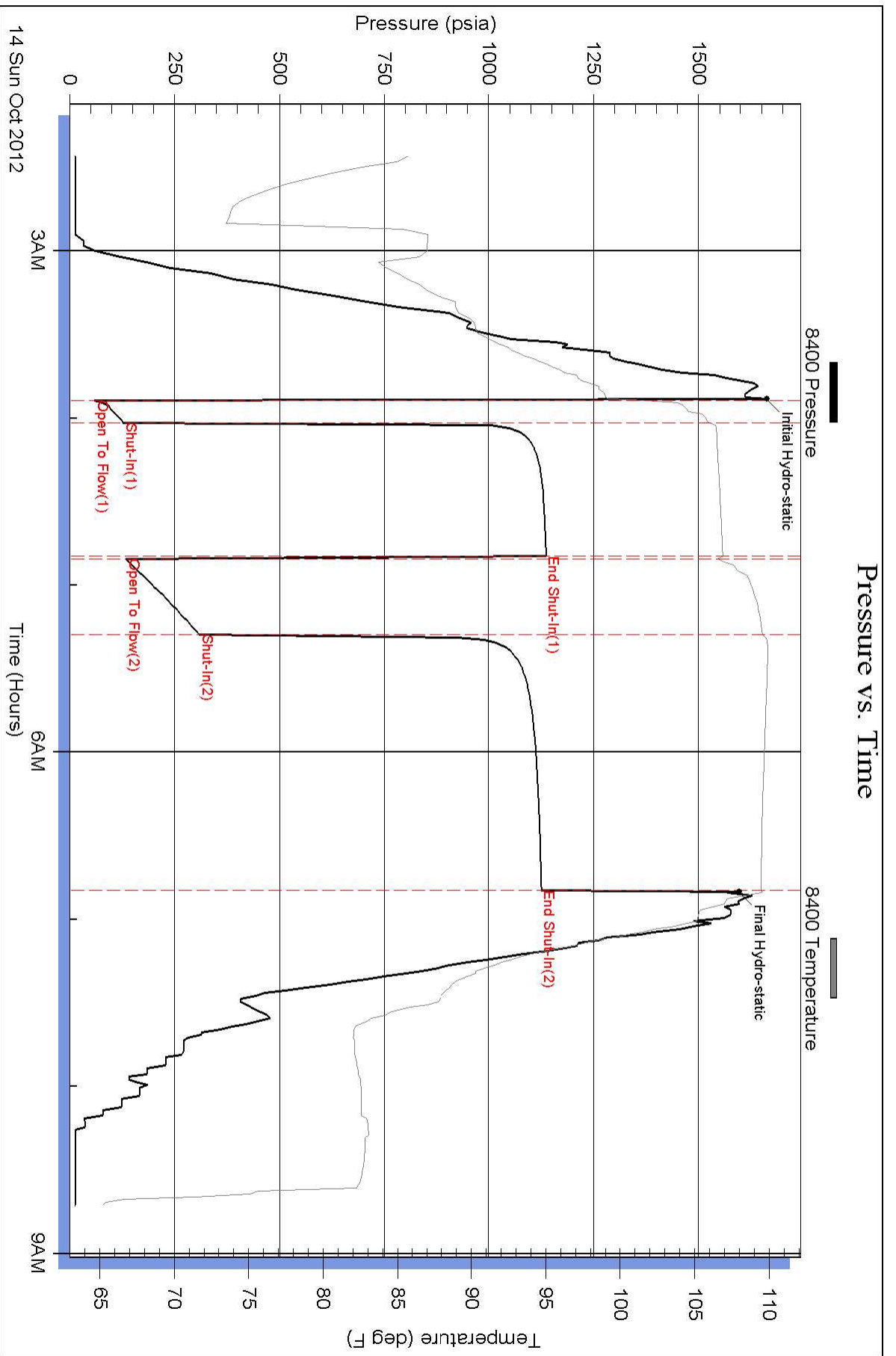
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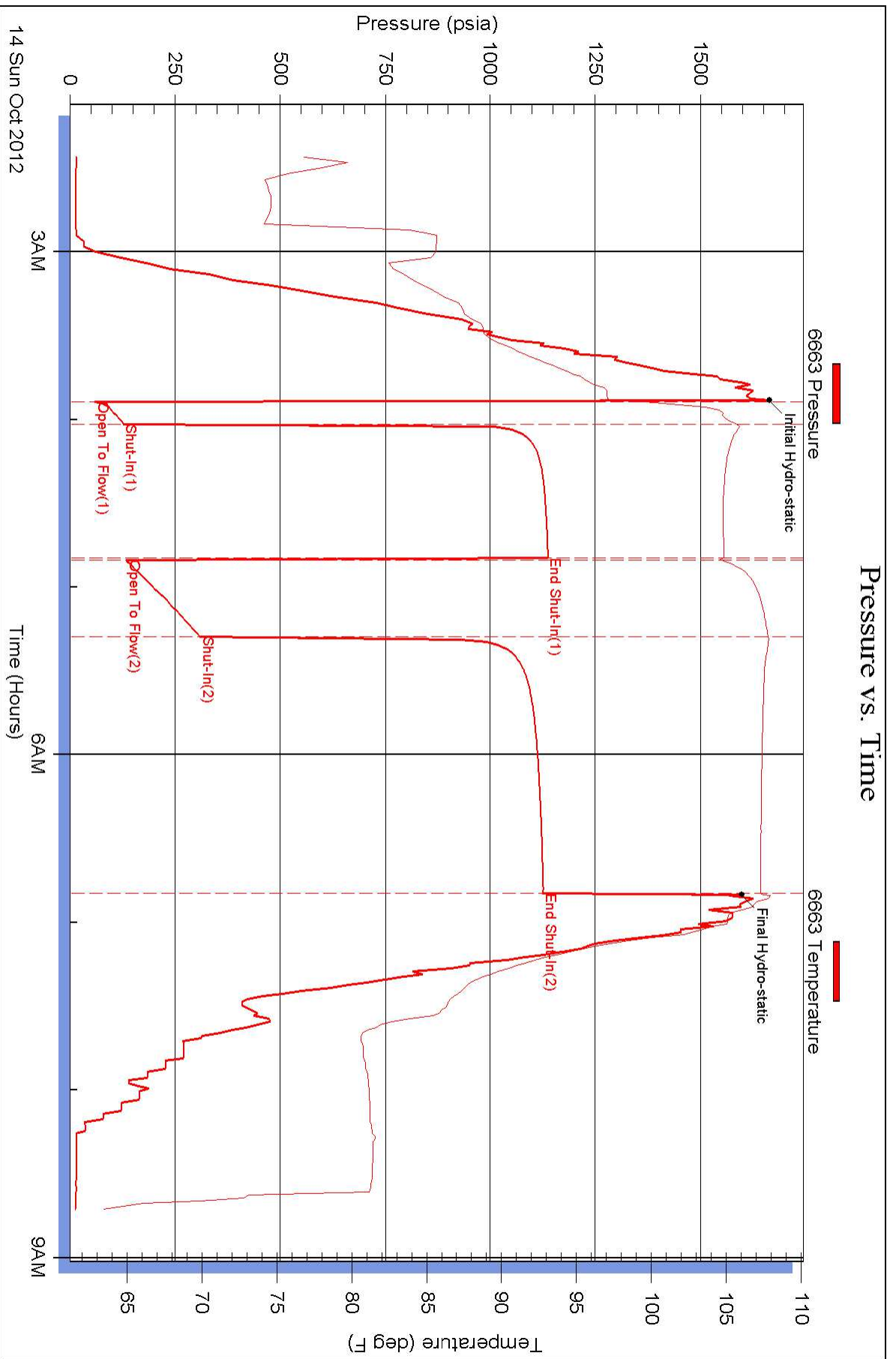
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration LLC.**

133 North Glendale ST.
Wichita Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-33

33-17s-13w-Barton

Start Date: 2012.10.15 @ 03:12:00

End Date: 2012.10.15 @ 08:50:30

Job Ticket #: 17858 DST #: 3

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

Printed: 2012.10.15 @ 07:06:30



DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17858

DST#: 3

Test Start: 2012.10.15 @ 03:12:00

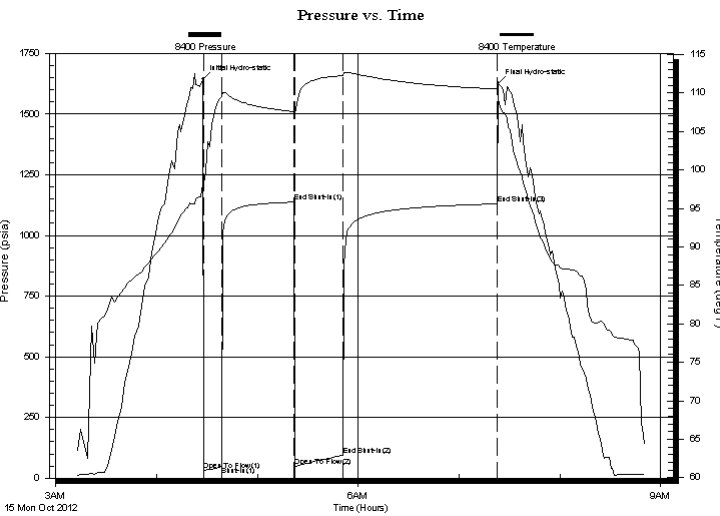
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:28:00
 Time Test Ended: 08:50:30
 Interval: **3365.00 ft (KB) To 3371.00 ft (KB) (TVD)**
 Total Depth: 3371.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-25
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8400

Press @ Run Depth: 46.94 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.15 End Date: 2012.10.15 Last Calib.: 2012.10.15
 Start Time: 03:12:00 End Time: 08:50:30 Time On Btm: 2012.10.15 @ 04:27:30
 Time Off Btm: 2012.10.15 @ 07:23:30

TEST COMMENT: 1st Open 10 minutes Fair building blow blew 2.5 inches
 1st Shut in 45 minutes No blow back
 2nd Open 30 minutes Fair building blow 28 minutes bottom bucket
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1643.06	98.20	Initial Hydro-static
1	31.86	98.42	Open To Flow (1)
11	46.94	109.49	Shut-In(1)
55	1137.86	107.61	End Shut-In(1)
55	48.34	107.32	Open To Flow (2)
84	95.77	112.26	End Shut-In(2)
175	1130.06	110.50	End Shut-In(3)
176	1626.71	109.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Water cut mud Mud 30% Water 70%	1.82
0.00	Chlorides 36,000 @56 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17858

DST#: 3

ATTN: Adam Kennedy

Test Start: 2012.10.15 @ 03:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:28:00

Time Test Ended: 08:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-25

Interval: 3365.00 ft (KB) To 3371.00 ft (KB) (TVD)

Reference Elevations: 1877.00 ft (KB)

Total Depth: 3371.00 ft (KB) (TVD)

1869.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ Run Depth: 1132.40 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.10.15

End Date: 2012.10.15

Last Calib.: 2012.10.15

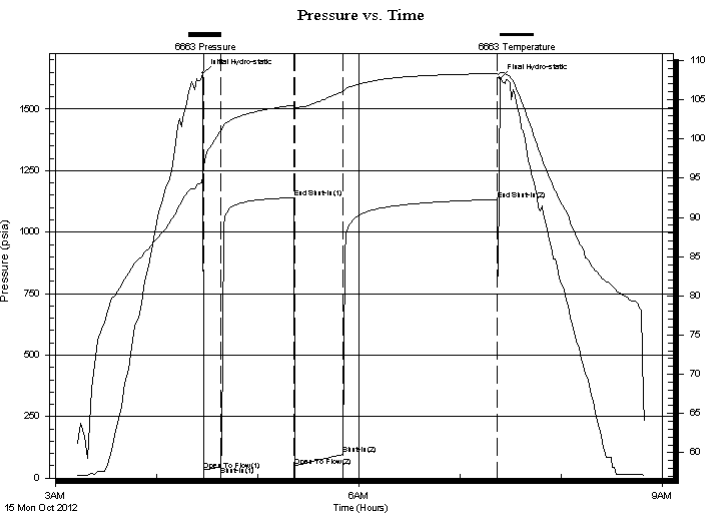
Start Time: 03:12:00

End Time: 08:50:00

Time On Btm: 2012.10.15 @ 04:27:30

Time Off Btm: 2012.10.15 @ 07:23:30

TEST COMMENT: 1st Open 10 minutes Fair building blow blew 2.5 inches
1st Shut in 45 minutes No blow back
2nd Open 30 minutes Fair building blow 28 minutes bottom bucket
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1646.07	95.17	Initial Hydro-static
1	33.88	96.46	Open To Flow (1)
11	47.35	101.06	Shut-In(1)
54	1140.22	104.31	End Shut-In(1)
55	49.69	104.03	Open To Flow (2)
83	95.30	106.01	Shut-In(2)
175	1132.40	108.36	End Shut-In(2)
176	1625.52	108.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Water cut mud Mud 30% Water 70%	1.82
0.00	Chlorides 36,000 @56 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17858

DST#: 3

ATTN: Adam Kennedy

Test Start: 2012.10.15 @ 03:12:00

Tool Information

Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 47.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3365.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3342.00	
Hydraulic Tool	5.00			3347.00	
Jars	6.00			3353.00	
Safety Joint	2.00			3355.00	
Packer	5.00			3360.00	28.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Anchor	1.00			3366.00	
Recorder	1.00	6663	Inside	3367.00	
Recorder	1.00	8400	Outside	3368.00	
Bull Plug	3.00			3371.00	6.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17858

DST#: 3

ATTN: Adam Kennedy

Test Start: 2012.10.15 @ 03:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.40 ohm.m

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Water cut mud Mud 30% Water 70%	1.824
0.00	Chlorides 36,000 @56 degrees	0.000

Total Length: 130.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0

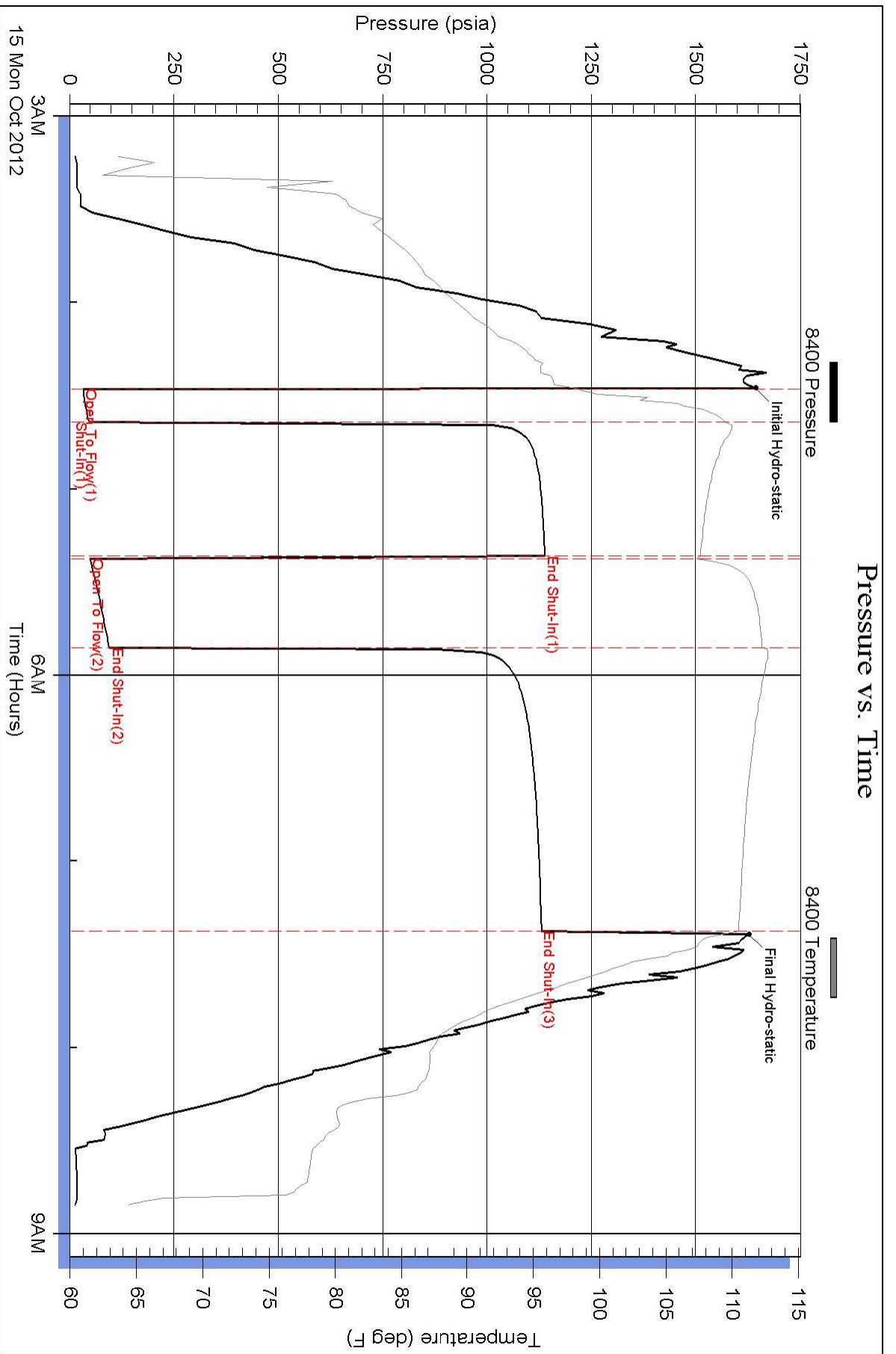
Num Gas Bombs: 0

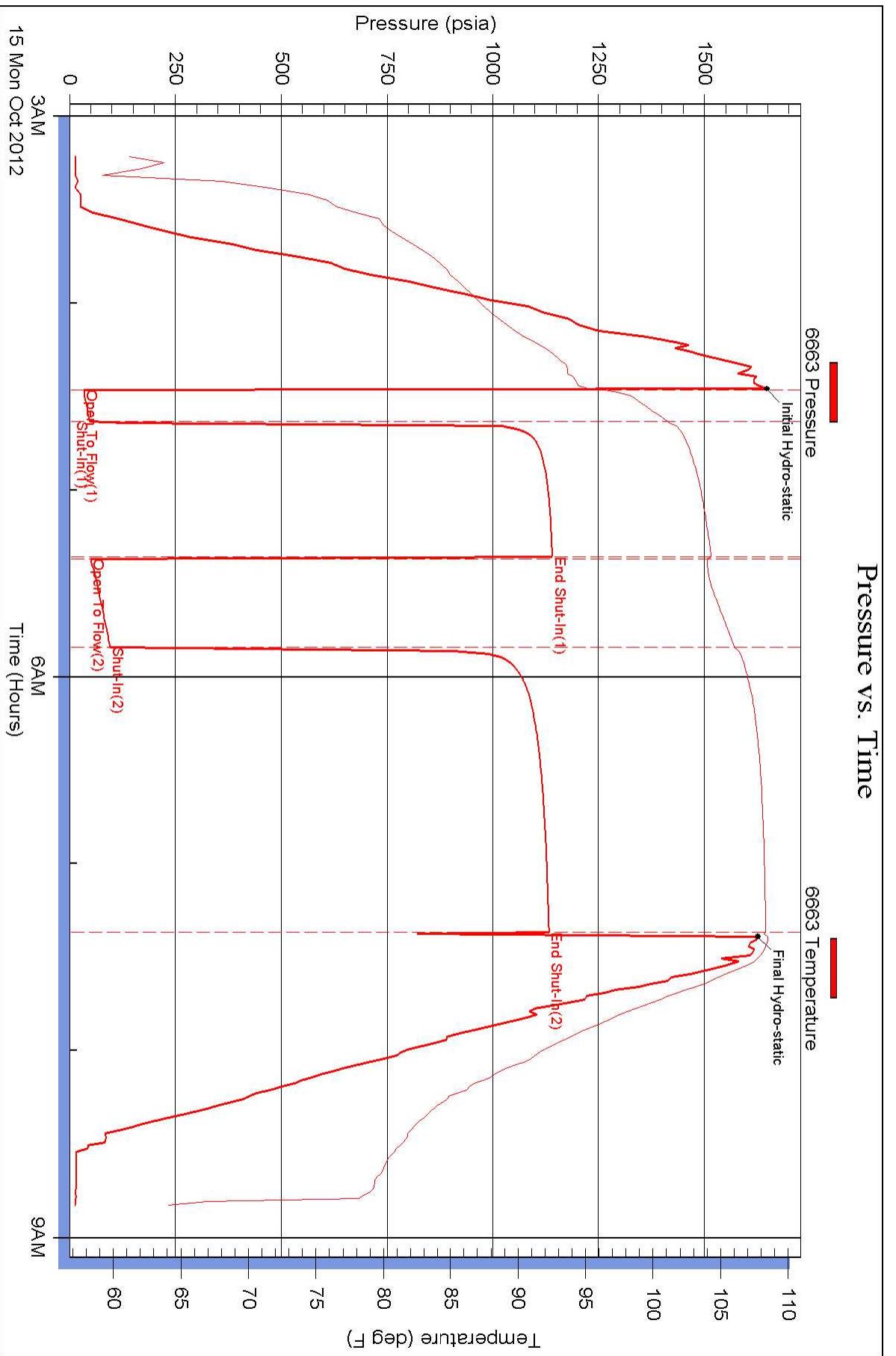
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration LLC.**

133 North Glendale ST.
Wichita Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-33

33-17s-13w-Barton

Start Date: 2012.10.15 @ 09:15:00

End Date: 2012.10.15 @ 17:20:00

Job Ticket #: 17859 DST #: 4

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

Printed: 2012.10.16 @ 03:42:57



DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17859

DST#: 4

Test Start: 2012.10.15 @ 09:15:00

GENERAL INFORMATION:

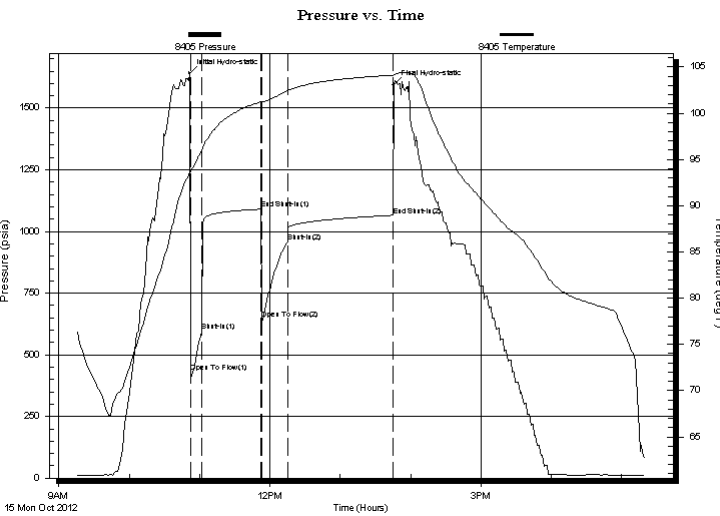
Formation: **Arbukle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:52:30
 Time Test Ended: 17:20:00
 Interval: **3332.00 ft (KB) To 3348.00 ft (KB) (TVD)**
 Total Depth: 3454.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-25
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8405

Outside

Press @ Run Depth: 958.74 psia @ 3334.16 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.15 End Date: 2012.10.15 Last Calib.: 2012.10.16
 Start Time: 09:15:00 End Time: 17:20:00 Time On Btm: 2012.10.15 @ 10:51:30
 Time Off Btm: 2012.10.15 @ 13:45:30

TEST COMMENT: 1st Open 10 minutes Strong building blow blew bottom bucket 1 minute.
 1st Shut in 45 minutes Yes blow back
 2nd Open 30 minutes Strong building blow blew bottom bucket 1 minute.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1641.74	93.57	Initial Hydro-static
1	431.20	93.63	Open To Flow (1)
10	597.29	95.94	Shut-In(1)
61	1090.56	101.24	End Shut-In(1)
62	643.24	101.15	Open To Flow (2)
84	958.74	102.42	Shut-In(2)
174	1065.41	104.12	End Shut-In(2)
174	1594.85	104.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2418.00	Clean Gassy oil 95%Oil 5%Gas	33.92
0.00	Gravity of oil 34 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17859

DST#: 4

Test Start: 2012.10.15 @ 09:15:00

GENERAL INFORMATION:

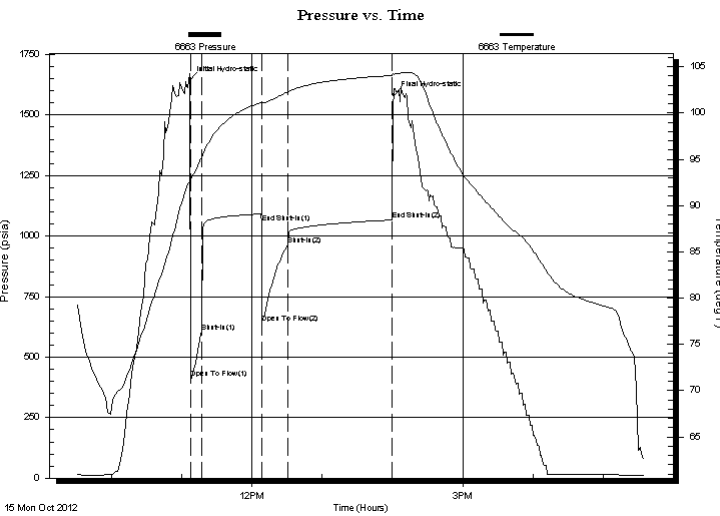
Formation: **Arbukle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:52:30
 Time Test Ended: 17:20:00
 Interval: **3332.00 ft (KB) To 3348.00 ft (KB) (TVD)**
 Total Depth: 3454.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-25
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6663

Outside

Press @ Run Depth: 1066.44 psia @ 3334.16 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.15 End Date: 2012.10.15 Last Calib.: 2012.10.16
 Start Time: 09:30:00 End Time: 17:35:30 Time On Btm: 2012.10.15 @ 11:07:00
 Time Off Btm: 2012.10.15 @ 14:01:00

TEST COMMENT: 1st Open 10 minutes Strong building blow blew bottom bucket 1 minute.
 1st Shut in 45 minutes Yes blow back
 2nd Open 30 minutes Strong building blow blew bottom bucket 1 minute.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1644.42	92.75	Initial Hydro-static
1	412.03	92.77	Open To Flow (1)
10	605.24	95.22	Shut-In(1)
61	1056.47	101.12	End Shut-In(1)
62	640.47	101.05	Open To Flow (2)
84	962.53	102.28	Shut-In(2)
173	1066.44	104.07	End Shut-In(2)
174	1582.24	104.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2418.00	Clean Gassy oil 95%Oil 5%Gas	33.92
0.00	Gravity of oil 34 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

33-17s-13w-Barton

Morgenstern #1-33

Job Ticket: 17859

DST#: 4

Test Start: 2012.10.15 @ 09:15:00

Tool Information

Drill Pipe:	Length: 3323.00 ft	Diameter: 3.80 inches	Volume: 46.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 46.61 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.61 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3332.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	3348.37 ft			
Interval between Packers:	16.37 ft			
Tool Length:	43.28 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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P.O. Sub	0.31			3309.70	
C.O. Sub	0.31			3310.01	
P.O. Sub	0.31			3310.32	
Recorder	1.80		Fluid	3312.12	
Conv. S.I. Tool	1.52			3313.64	
Sampler	1.10			3314.74	
HMV	2.10			3316.84	
Recorder	1.80		Inside	3318.64	
Telemetry Tool	7.01			3325.65	
Jars	2.05			3327.70	
Bypass Hanger	0.32			3328.02	
Safety Joint	0.78			3328.80	
Packer	1.78			3330.58	22.61 Bottom Of Top Packer
Packer	1.42			3332.00	
Stubb	0.36			3332.36	
Recorder Carrier	1.80			3334.16	
Recorder	0.00	6663	Outside	3334.16	
Recorder	0.00	8405	Outside	3334.16	
Perforations	13.00			3347.16	
Bypass Receiver	0.85			3348.01	
Blank Spacing	0.00			3348.01	
Stubb	0.36			3348.37	16.37 Tool Interval
Packer	1.42			3349.79	
Bypass Hanger	0.30			3350.09	
Recorder	1.80	8400	Below	3351.89	
Collar	0.00			3351.89	



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration LLC.

33-17s-13w-Barton

133 North Glendale ST.
Wichita Kansas 67208

Morgenstern #1-33

Job Ticket: 17859

DST#: 4

ATTN: Adam Kennedy

Test Start: 2012.10.15 @ 09:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2418.00	Clean Gassy oil 95%Oil 5%Gas	33.918
0.00	Gravity of oil 34 corrected	0.000

Total Length: 2418.00 ft Total Volume: 33.918 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

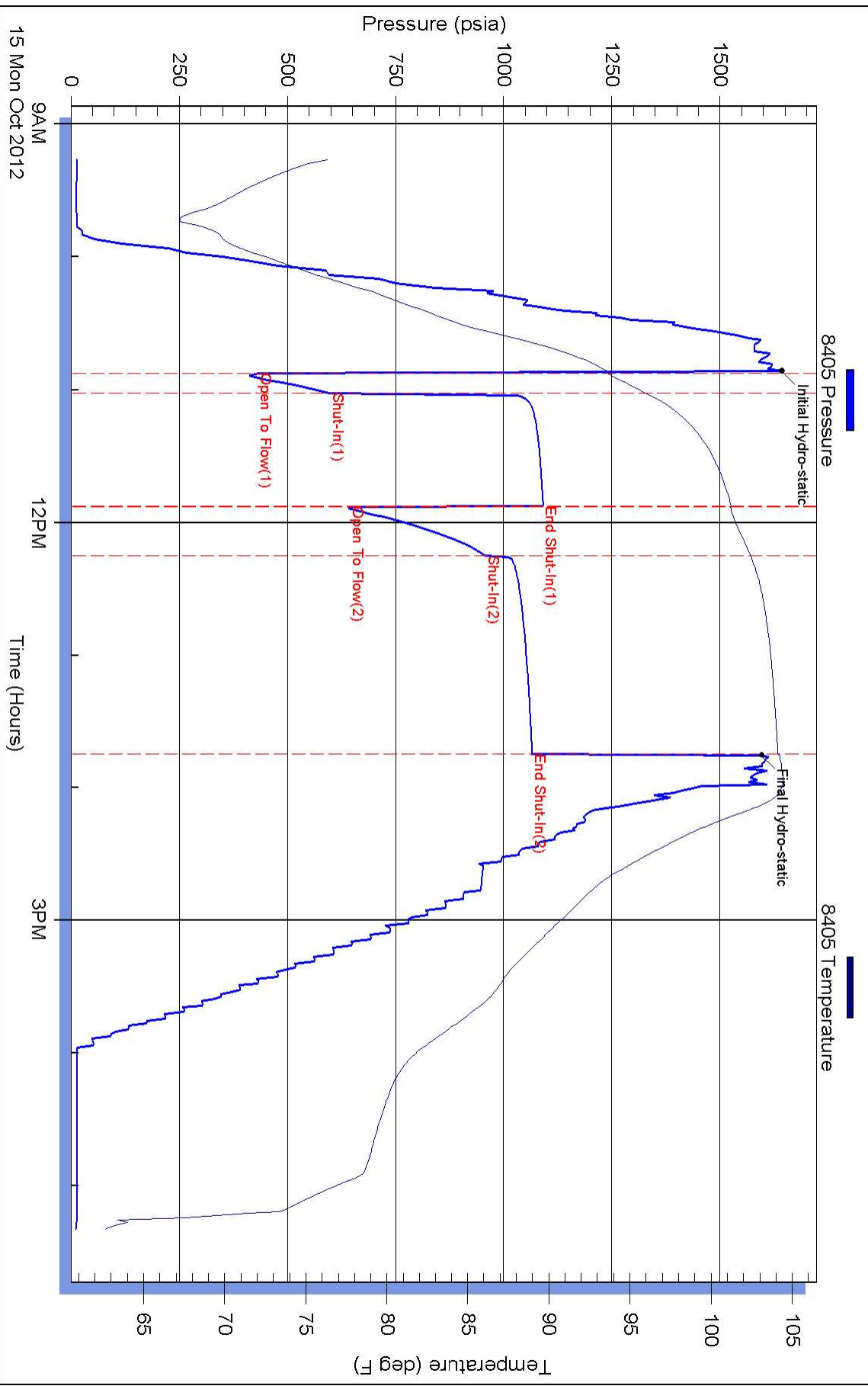
Serial #:

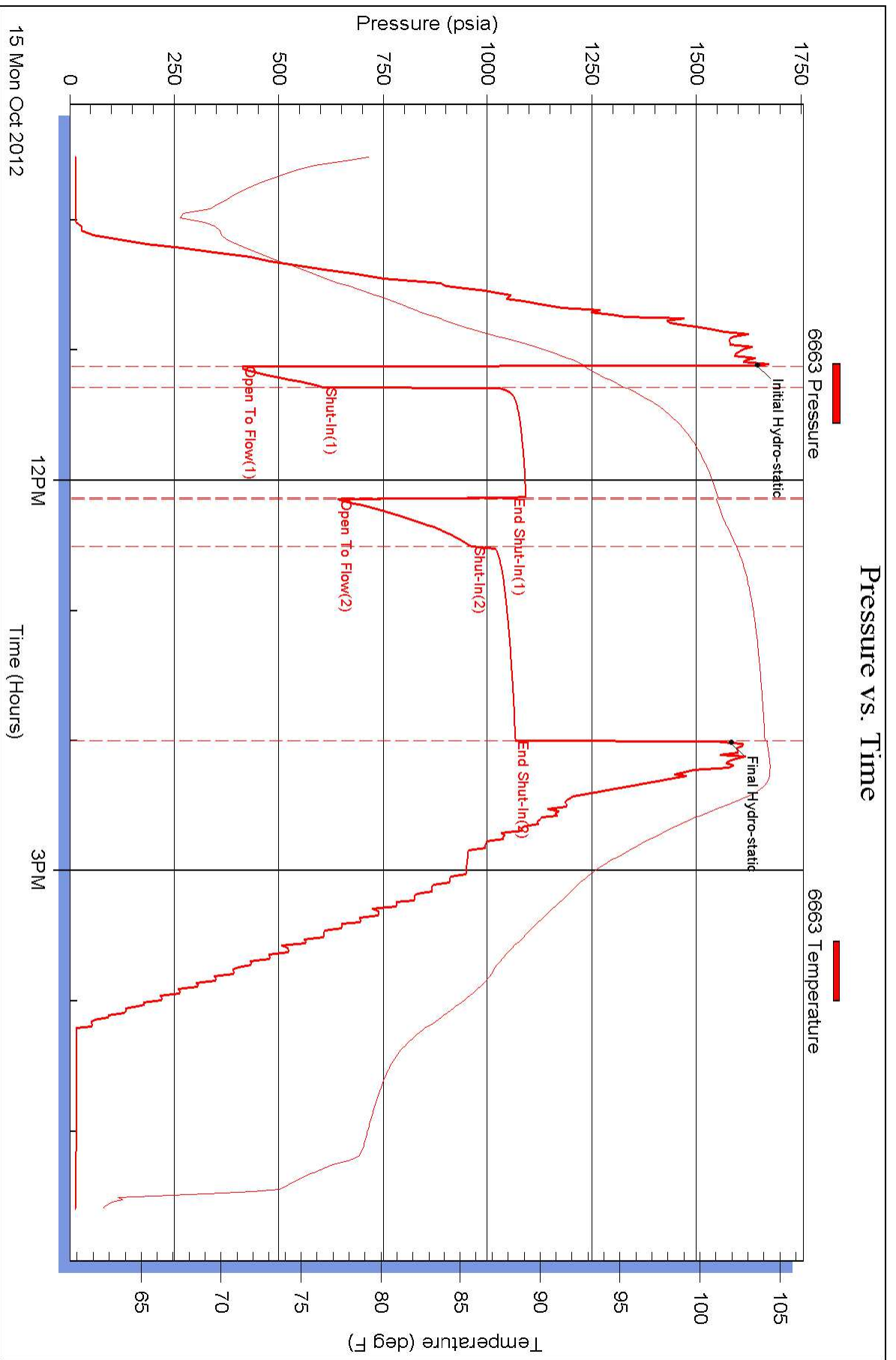
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





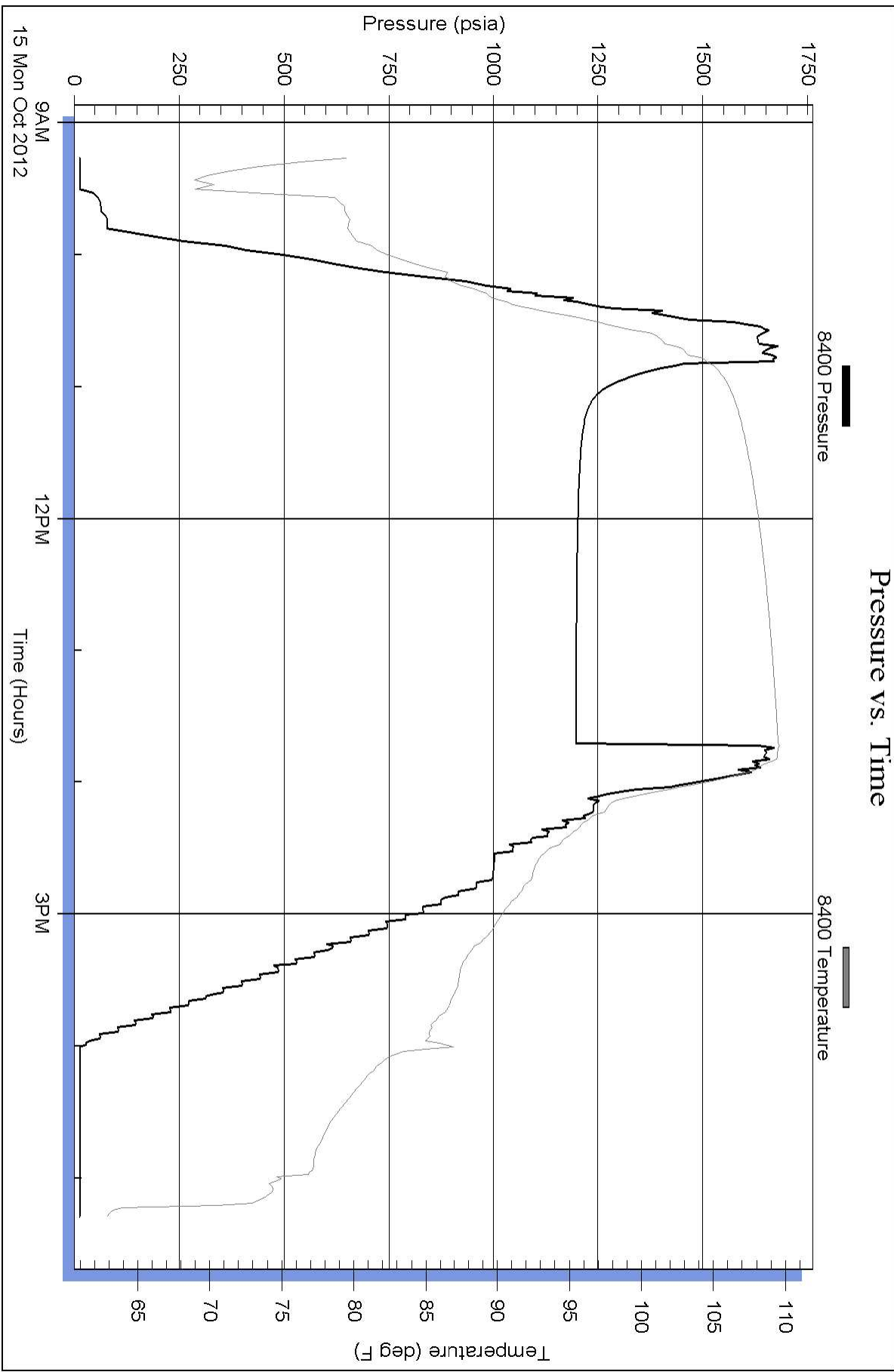
Serial #: 8400

Below

Valhalla Exploration LLC.

Morgenstern #1-33

DST Test Number: 4



Superior Testers Enterprises LLC

Ref. No: 17859

Printed: 2012.10.16 @ 03:42:58