



**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: \_\_\_\_\_



1095216

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
---	---

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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**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: 2/10/2012  
 Invoice # 230

P.O.#:

Due Date: 3/11/2012

Division: Russell

# Invoice

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

**Reference:**  
 RINGWALD 1-33

**Description of Work:**  
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,530.82	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$182.76	No
Common-Class A	175	\$ 2,386.18	Yes	KCL	2	\$66.75	Yes
Gilsonite	875	\$ 1,466.91	Yes				
5 1/2" Turbolizer	9	\$ 583.41	Yes				
Mud Clear	500	\$ 413.53	Yes				
Bulk Truck Matl-Material Service Charge	198	\$ 442.59	No				
Auto Fill Float Shoe, 5 1/2"	1	\$ 342.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 312.32	No				
5 1/2" Basket	1	\$ 257.06	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 250.35	Yes				
Salt (Fine)	15	\$ 234.04	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 8,468.70  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (1,270.31)

SubTotal for Taxable Items:	\$ 5,100.19
SubTotal for Non-Taxable Items:	\$ 2,098.21
<b>Total:</b>	<b>\$ 7,198.40</b>
<b>Tax:</b>	<b>\$ 372.31</b>

7.30% Rice County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 7,570.71**  
**Applied Payments:**  
**Balance Due: \$ 7,570.71**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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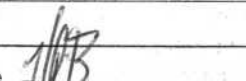
# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 230

Date	2/9/12	Sec.	33	Twp.	18	Range	10	County	Rice	State	KS	On Location		Finish	11:45 AM								
Lease	Ringwald	Well No.	1-33		Location Clafin, E to 4 Rd, S to FRD, 1/4 W, S, into																		
Contractor	H2 Drilling Rig #3							Owner 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.															
Type Job								Charge To VALHALLA EXPLORATION															
Hole Size	7 7/8"	T.D.	3213'		Street																		
Csg.	5 1/2" 15.50'	Depth	3212'		City																		
Tbg. Size								State															
Tool								The above was done to satisfaction and supervision of owner agent or contractor.															
Cement Left in Csg.	21'	Shoe Joint	21'		Cement Amount Ordered 175 sx Com 10% Salt																		
Meas Line								Displace 76 Bbls.															
<b>EQUIPMENT</b>																							
Pumptrk	9	No.	Cement Helper	Paul																			
Bulktrk	14	No.	Driver	Matt																			
Bulktrk	PV	No.	Driver	Brian																			
<b>JOB SERVICES &amp; REMARKS</b>																							
Remarks:								5% Gilsonite															
Rat Hole	30 sx							Common 175															
Mouse Hole								Poz. Mix															
Centralizers	1, 3, 5, 7, 9, 11, 13, 15, 17							Gel.															
Baskets	18							Calcium KCL 2 gal															
D/V or Port Collar								Hulls															
Est. Circ. - 1 hour								Salt 15															
Pump 500 gal Mud Clear - 48								Flowseal															
Plug Ret Hole								Kol-Seal 875#															
Mix 145 sx								Mud CLR 48 500 gal / 20 Bbls. KCL															
Displace - First 20 Bbls = KCL								CFL-117 or CD110 CAF 38															
Land Plug								Sand															
Float Hold								Handling 198															
<b>FLOAT EQUIPMENT</b>																							
<p>Thank You!!</p>																Mileage 5 1/2"							
																Guide Shoe							
																Centralizer 9 - Turbos							
																Baskets 1							
																AFU Inserts							
Float Shoe 1																							
Latch Down w / Plug																							
Pumptrk Charge																							
Mileage 28																							
Tax																							
Discount																							
Total Charge																							
<p>X Signature </p>																							



**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: 2/7/2012  
 Invoice # 360

P.O.#:  
 Due Date: 3/8/2012  
 Division: Russell

# Invoice

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

**Reference:**  
 RINGWALD 1-33

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	180	\$ 2,384.23	Yes				
Bulk Truck Matl-Material Service Charge	190	\$ 412.57	No				
Calcium Chloride	7	\$ 286.22	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 303.39	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 177.54	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 4,608.36  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (691.25)

SubTotal for Taxable Items:	\$ 2,314.95
SubTotal for Non-Taxable Items:	\$ 1,602.15
<b>Total:</b>	<b>\$ 3,917.10</b>
<b>Tax:</b>	<b>\$ 168.99</b>

7.30% Rice County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 4,086.10**  
**Applied Payments:**  
**Balance Due: \$ 4,086.10**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 360

Date	2-3-12	Sec.	33	Twp.	18	Range	10	County	RICE	State	KANSAS	On Location		Finish	10:00 PM		
Lease	RINGWALD		Well No.		1-33		Location									CLAFIN EAST TO Hwy 4 TO 4th ST TO F.RA-W <sup>th</sup> ST TO	
Contractor	H2 DRILLING #3						Owner									VALHALLA EXPLORATION	
Type Job	SHORT 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.		350'		Charge To									VALHALLA EXPLORATION	
Csg.	8 7/8		Depth		344.77		Street									133 N. GLENDALE	
Tbg. Size			Depth				City									WICHITA State KS	
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.			Shoe Joint		15'		Cement Amount Ordered									180 com 3 1/2" - 2 1/2"	
Meas Line			Displace		21 BLS												

**EQUIPMENT**

Pumptrk	9	No.	Cement Helper	MATT	Common	180
Bulktrk	8	No.	Driver	MICHAEL	Poz. Mix	
Bulktrk	P/U	No.	Driver	CISCO	Gel.	3
<b>JOB SERVICES &amp; REMARKS</b>					Calcium	7

Remarks:	Hulls	
Rat Hole	Salt	
Mouse Hole	Flowseal	
Centralizers	Kol-Seal	
Baskets	Mud CLR 48	
D/V or Port Collar	CFL-117 or CD110 CAF 38	
ESTABLISHED CIRCULATION; MIXED	Sand	
180 SKS CEMENT, DISPLACED	Handling	190
CEMENT DID CIRCULATE	Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

THANK YOU!

Pumptrk Charge Surface  
Mileage 28

X Signature *Randy*

Tax  
Discount  
Total Charge



## DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C**  
133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

**Ringwald #1-33**

**33-18s-10w Rice**

Start Date: 2012.02.06 @ 10:53:00

End Date: 2012.02.06 @ 15:01:00

Job Ticket #: 18738                      DST #: 1

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

Printed: 2012.02.06 @ 15:15:20

Valhalla Exploration L.L.C

33-18s-10w Rice

Ringwald #1-33

DST # 1

Topeka (Plattsmouth)

2012.02.06



# DRILL STEM TEST REPORT

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18738 **DST#: 1**  
 Test Start: 2012.02.06 @ 10:53:00

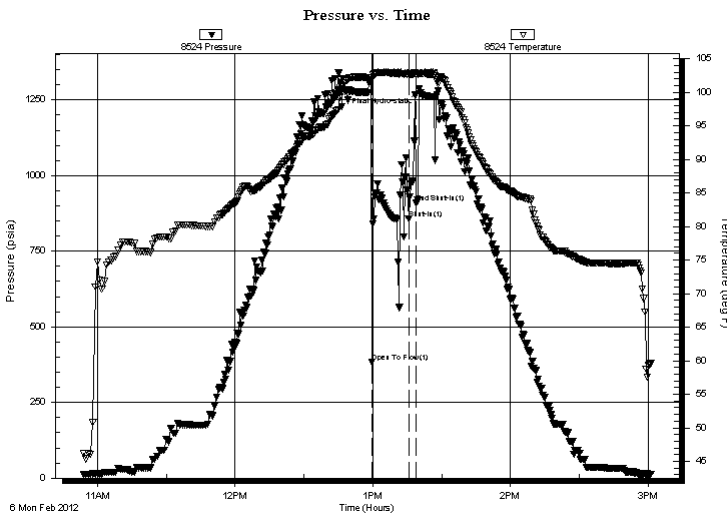
## GENERAL INFORMATION:

Formation: **Topeka (Plattsmouth)**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:59:30  
 Time Test Ended: 15:01:00  
 Interval: **2664.00 ft (KB) To 2690.00 ft (KB) (TVD)**  
 Total Depth: 2690.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Inflate Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-GB-70  
 Reference Elevations: 1743.00 ft (KB)  
 1735.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8524

Press @ RunDepth: 856.23 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.02.06 End Date: 2012.02.06 Last Calib.: 2012.02.06  
 Start Time: 10:53:00 End Time: 15:01:00 Time On Btm: 2012.02.06 @ 12:58:30  
 Time Off Btm: 2012.02.06 @ 13:20:00

TEST COMMENT: 1st Opening 20 Minutes-chased tool 11 feet to bottom no blow flushed tool good surge pulled tool  
 1st Shut-in -Pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1307.45	102.24	Initial Hydro-static
1	383.13	101.85	Open To Flow (1)
18	856.23	102.68	Shut-In(1)
21	910.62	102.74	End Shut-In(1)
22	1285.72	102.80	Final Hydro-static

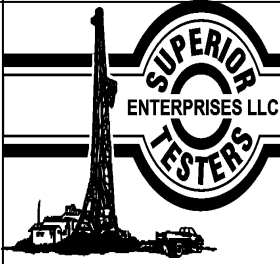
## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32

## Gas Rates

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





# DRILL STEM TEST REPORT

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18738 **DST#: 1**  
 Test Start: 2012.02.06 @ 10:53:00

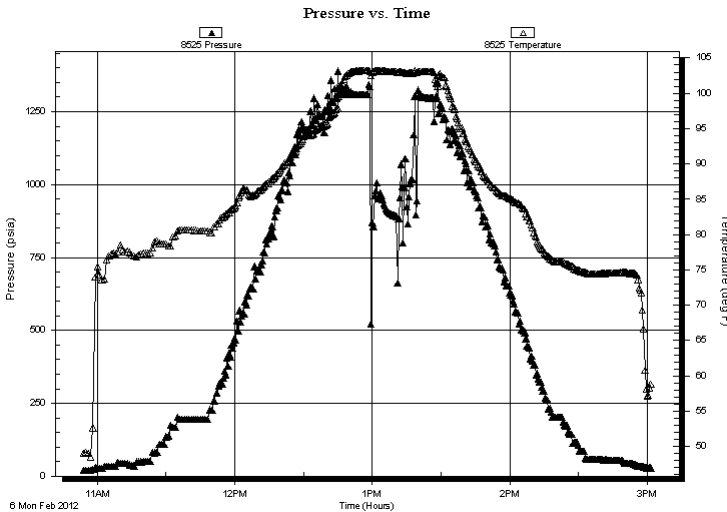
## GENERAL INFORMATION:

Formation: **Topeka (Plattsmouth)**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Inflate Bottom Hole (Initial)  
 Time Tool Opened: 12:59:30 Tester: Jared Scheck  
 Time Test Ended: 15:01:00 Unit No: 3320-GB-70  
 Interval: **2664.00 ft (KB) To 2690.00 ft (KB) (TVD)** Reference Elevations: 1743.00 ft (KB)  
 Total Depth: 2690.00 ft (KB) (TVD) 1735.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

## Serial #: 8525

Press @ RunDepth: psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.02.06 End Date: 2012.02.06 Last Calib.: 2012.02.06  
 Start Time: 10:53:00 End Time: 15:01:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 1st Opening 20 Minutes-chased tool 11 feet to bottom no blow flushed tool good surge pulled tool  
 1st Shut-in -Pulled tool



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 A T T N : Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18738      **DST#: 1**  
 Test Start: 2012.02.06 @ 10:53:00

## Tool Information

Drill Pipe:	Length: 2364.00 ft	Diameter: 3.80 inches	Volume: 33.16 bbl	Tool Weight: 1000.00 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 34.64 bbl</u>	Tool Chased 11.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	2664.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	2641.00	
Hydraulic Tool	5.00			2646.00	
Jars	6.00			2652.00	
Safety Joint	2.00			2654.00	
Packer	5.00			2659.00	28.00      Bottom Of Top Packer
Packer	5.00			2664.00	
Anchor	21.00			2685.00	
Recorder	1.00	8524	Inside	2686.00	
Recorder	1.00	8525	Outside	2687.00	
Bullnose	3.00			2690.00	26.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Valhalla Exploration L.L.C  
133 N Glendale Wichita KS 67206  
ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
Job Ticket: 18738      **DST#: 1**  
Test Start: 2012.02.06 @ 10:53:00

### Mud and Cushion Information

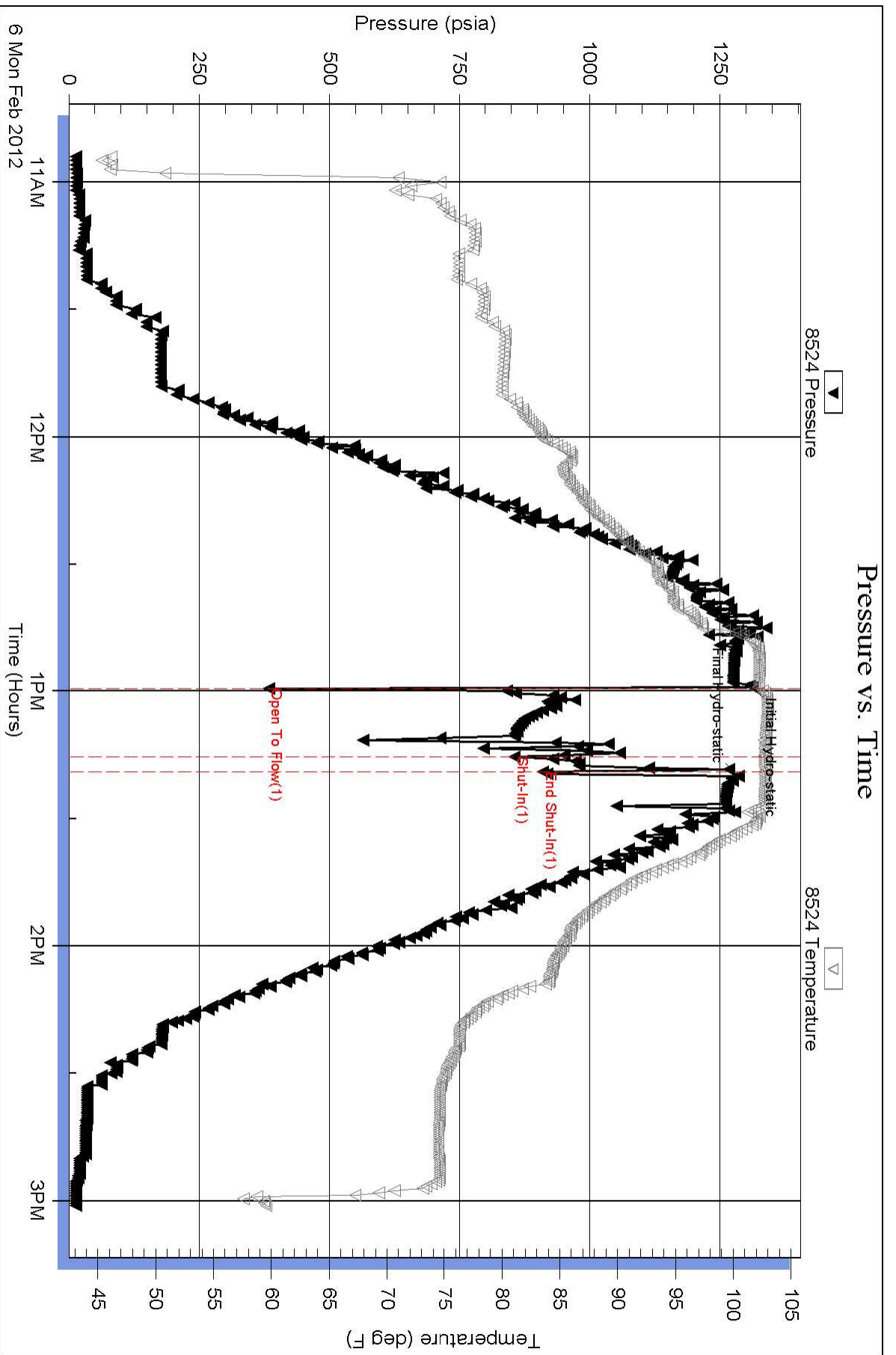
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5800.00 ppm			
Filter Cake: 1.00 inches			

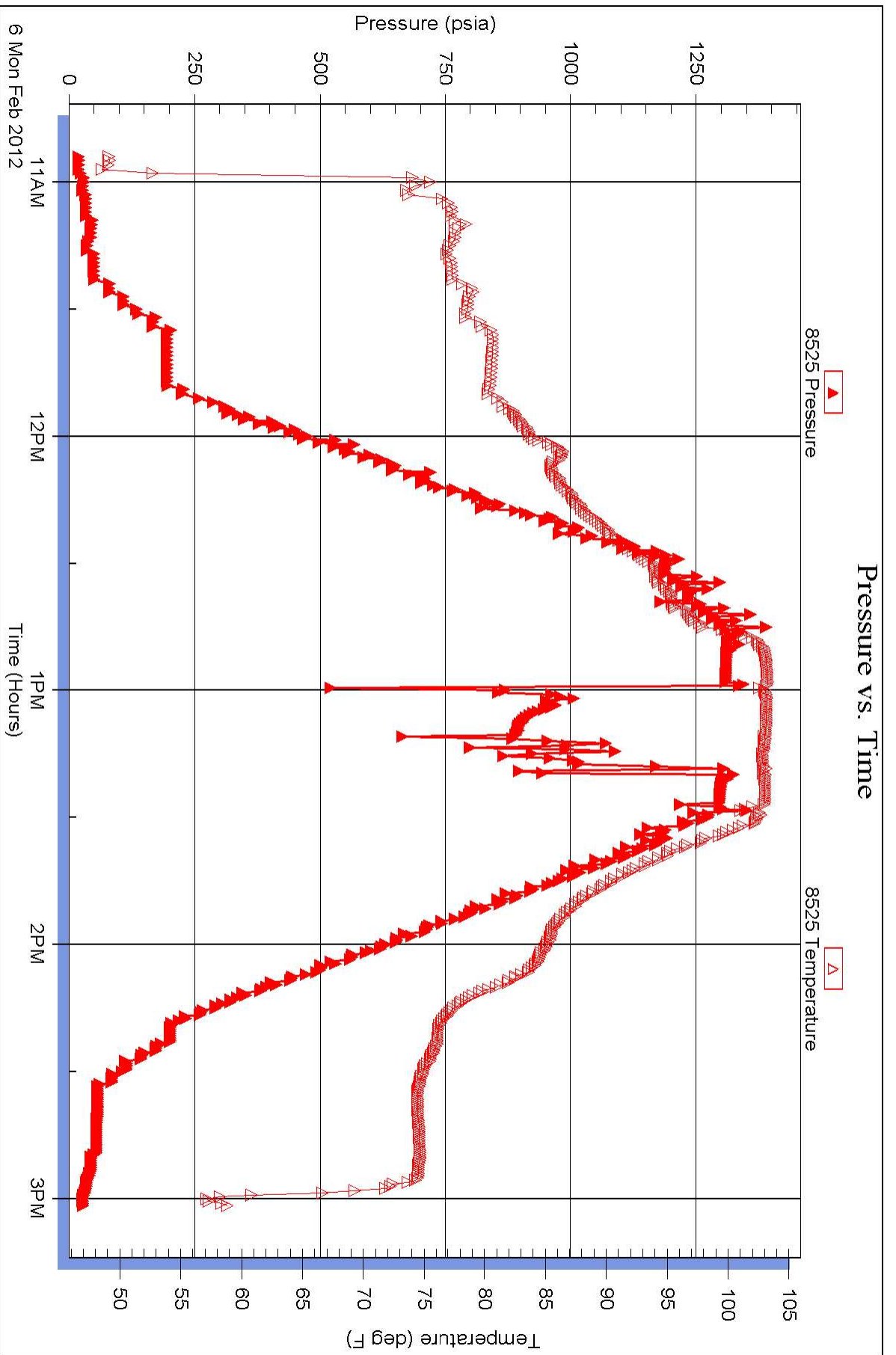
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: Miss run







## DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C**  
133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

### **Ringwald #1-33**

### **33-18s-10w Rice**

Start Date: 2012.02.06 @ 19:30:00

End Date: 2012.02.07 @ 01:32:00

Job Ticket #: 18739                      DST #: 2

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

Printed: 2012.02.07 @ 02:03:48

Valhalla Exploration L.L.C

33-18s-10w Rice

Ringwald #1-33

DST # 2

Topeka (Plattsmouth)

2012.02.06



# DRILL STEM TEST REPORT

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18739 **DST#: 2**  
 Test Start: 2012.02.06 @ 19:30:00

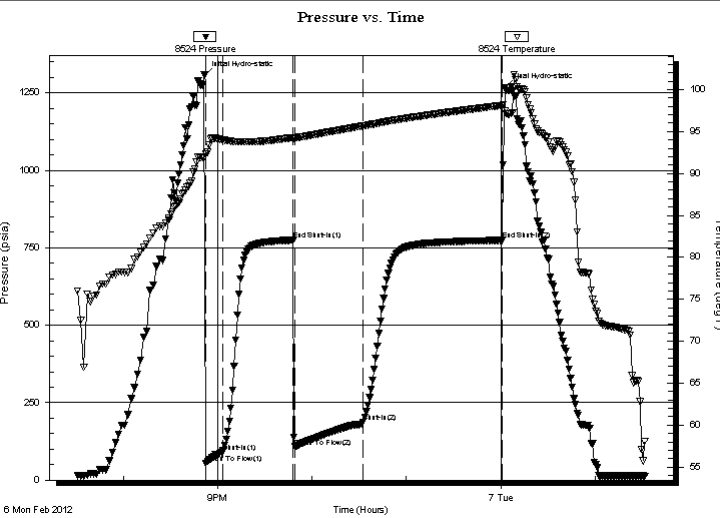
## GENERAL INFORMATION:

Formation: **Topeka (Plattsmouth)**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:52:30  
 Time Test Ended: 01:32:00  
 Interval: **2665.00 ft (KB) To 2690.00 ft (KB) (TVD)**  
 Total Depth: 2690.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-GB-70  
 Reference Elevations: 1743.00 ft (KB)  
 1735.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8524

Press @ RunDepth: 186.06 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.02.06 End Date: 2012.02.07 Last Calib.: 2012.02.07  
 Start Time: 19:30:00 End Time: 01:32:00 Time On Btm: 2012.02.06 @ 20:51:30  
 Time Off Btm: 2012.02.07 @ 00:02:30

**TEST COMMENT:** 1st Opening 10 Minutes-Fair blow built 9 inches into bucket w water in 10 minutes  
 1st Shut-in 45 Minutes-Very weak surface  
 2nd Opening 45 Minutes-Weak building blow built bottom of bucket in 23 minutes  
 2nd Shut-in 90 Minutes-1/4inch blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1307.42	91.94	Initial Hydro-static
1	54.36	92.30	Open To Flow (1)
12	89.19	94.03	Shut-In(1)
57	775.28	94.29	End Shut-In(1)
58	107.63	94.28	Open To Flow (2)
101	186.06	95.67	Shut-In(2)
190	774.13	98.11	End Shut-In(2)
191	1268.01	97.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassey Oil cut Mud	0.30
0.00	10% Gas 30% Oil 60% Mud	0.00
60.00	Gassey Oil cut Muddy Water	0.30
0.00	10% Gas 20% Oil 30% Mud 40% Water	0.00
180.00	Water 5 %Mud 95%Water	0.89
0.00	120 Feet Gas in pipe	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18739 **DST#: 2**  
 Test Start: 2012.02.06 @ 19:30:00

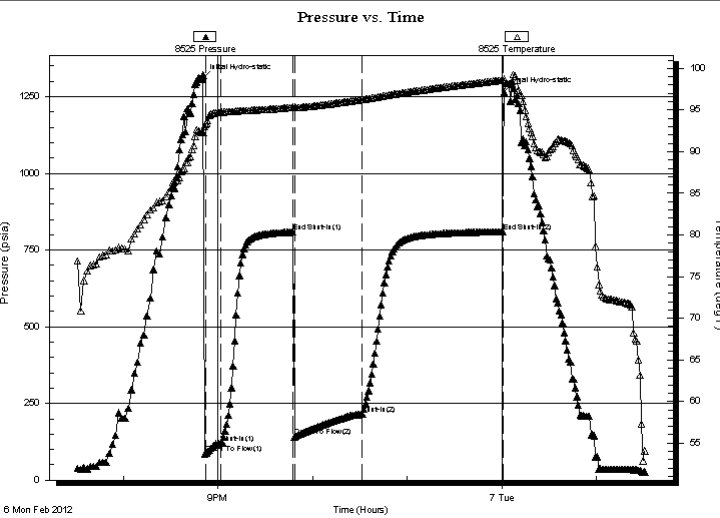
## GENERAL INFORMATION:

Formation: **Topeka (Plattsmouth)**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:52:30  
 Time Test Ended: 01:32:00  
 Interval: **2665.00 ft (KB) To 2690.00 ft (KB) (TVD)**  
 Total Depth: 2690.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-GB-70  
 Reference Elevations: 1743.00 ft (KB)  
 1735.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8525

Press @ RunDepth: 809.96 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.02.06 End Date: 2012.02.07 Last Calib.: 2012.02.07  
 Start Time: 19:30:00 End Time: 01:31:00 Time On Btm: 2012.02.06 @ 20:50:00  
 Time Off Btm: 2012.02.07 @ 00:01:30

**TEST COMMENT:** 1st Opening 10 Minutes-Fair blow built 9 inches into bucket w water in 10 minutes  
 1st Shut-in 45 Minutes-Very weak surface  
 2nd Opening 45 Minutes-Weak building blow built bottom of bucket in 23 minutes  
 2nd Shut-in 90 Minutes-1/4inch blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1309.64	92.25	Initial Hydro-static
2	86.65	93.29	Open To Flow (1)
12	121.40	94.75	Shut-In(1)
58	808.87	95.33	End Shut-In(1)
59	141.71	95.26	Open To Flow (2)
102	215.56	96.26	Shut-In(2)
191	809.96	98.60	End Shut-In(2)
192	1265.45	98.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassey Oil cut Mud	0.30
0.00	10% Gas 30% Oil 60% Mud	0.00
60.00	Gassey Oil cut Muddy Water	0.30
0.00	10% Gas 20% Oil 30% Mud 40% Water	0.00
180.00	Water 5 %Mud 95%Water	0.89
0.00	120 Feet Gas in pipe	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 A T T N : Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18739      **DST#: 2**  
 Test Start: 2012.02.06 @ 19:30:00

## Tool Information

Drill Pipe:	Length: 2365.00 ft	Diameter: 3.80 inches	Volume: 33.17 bbl	Tool Weight: 1000.00 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 34.65 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2665.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	2642.00	
Hydraulic Tool	5.00			2647.00	
Jars	6.00			2653.00	
Safety Joint	2.00			2655.00	
Packer	5.00			2660.00	28.00      Bottom Of Top Packer
Packer	5.00			2665.00	
Anchor	20.00			2685.00	
Recorder	1.00	8524	Inside	2686.00	
Recorder	1.00	8525	Outside	2687.00	
Bullnose	3.00			2690.00	25.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>53.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18739      **DST#: 2**  
 Test Start: 2012.02.06 @ 19:30:00

### Mud and Cushion Information

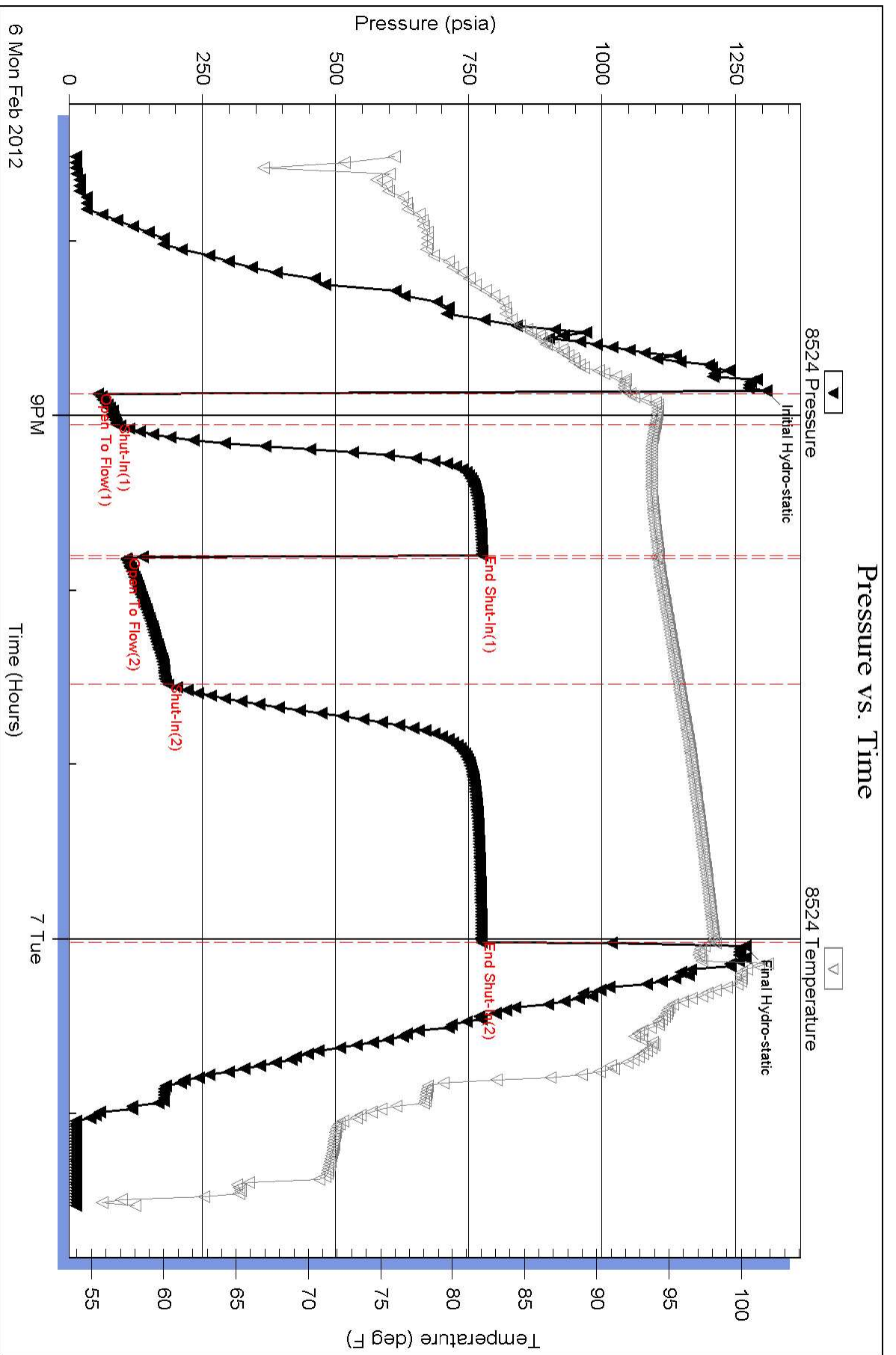
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5800.00 ppm			
Filter Cake: 1.00 inches			

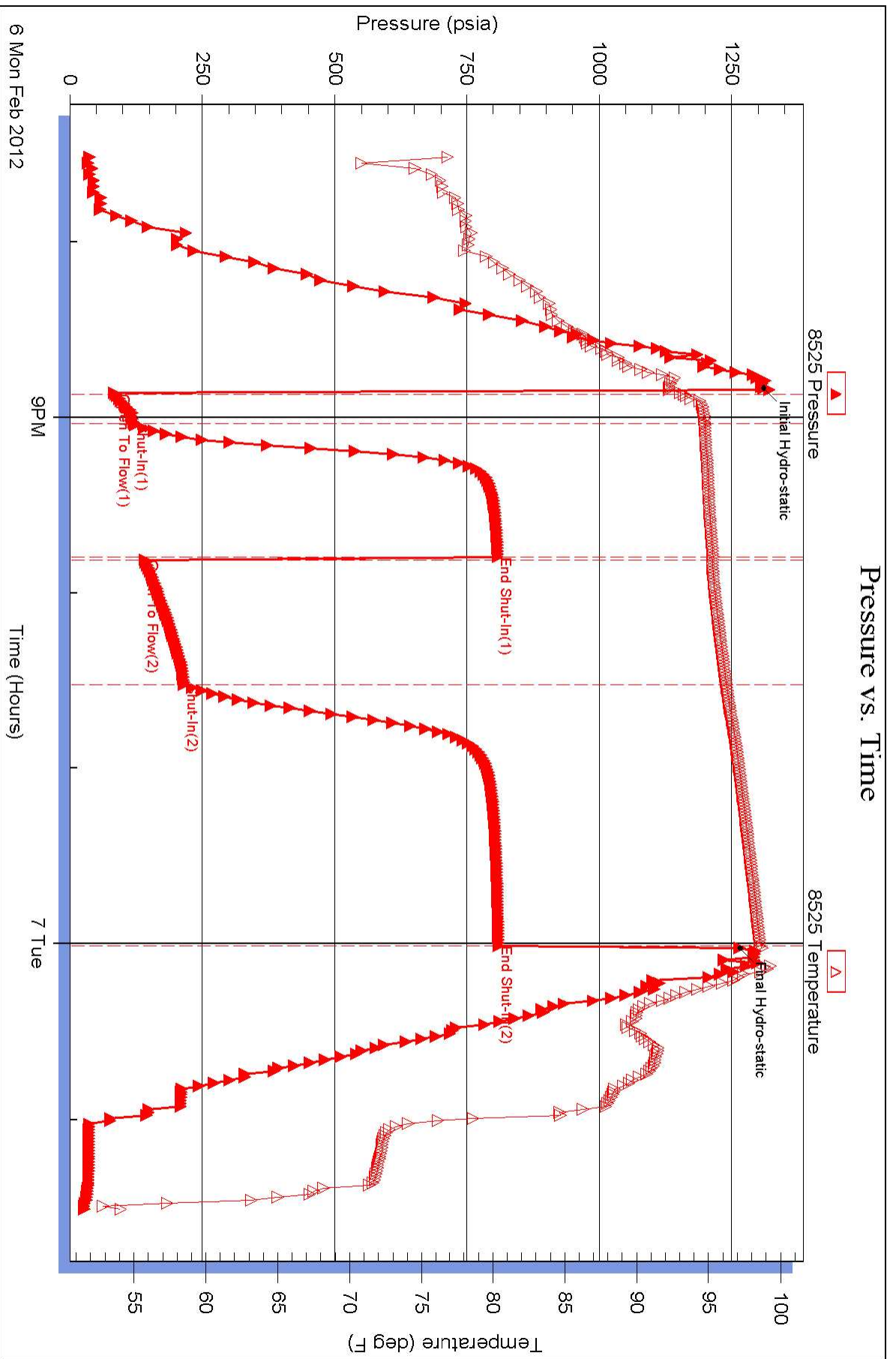
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gassey Oil cut Mud	0.295
0.00	10% Gas 30% Oil 60% Mud	0.000
60.00	Gassey Oil cut Muddy Water	0.295
0.00	10% Gas 20% Oil 30% Mud 40% Water	0.000
180.00	Water 5 %Mud 95%Water	0.885
0.00	120 Feet Gas in pipe	0.000
0.00	Chlorides 50,000 Resisivity .25 @56 deg	0.000

Total Length: 300.00 ft      Total Volume: 1.475 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C**  
133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

### **Ringwald #1-33**

### **33-18s-10w Rice**

Start Date: 2012.02.07 @ 19:40:00

End Date: 2012.02.08 @ 01:53:30

Job Ticket #: 18740                      DST #: 3

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

Printed: 2012.02.08 @ 01:06:24

Valhalla Exploration L.L.C  
33-18s-10w Rice  
Ringwald #1-33  
DST # 3  
Lansing "H"  
2012.02.07



# DRILL STEM TEST REPORT

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18740 **DST#: 3**  
 Test Start: 2012.02.07 @ 19:40:00

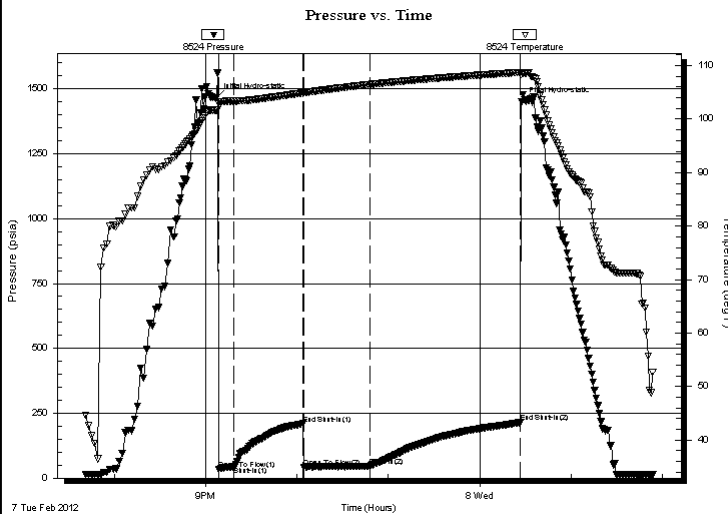
## GENERAL INFORMATION:

Formation: **Lansing "H"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:08:30 Tester: Jared Scheck  
 Time Test Ended: 01:53:30 Unit No: 3320-GB-70  
 Interval: **2987.00 ft (KB) To 3020.00 ft (KB) (TVD)** Reference Elevations: 1743.00 ft (KB)  
 Total Depth: 3020.00 ft (KB) (TVD) 1735.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8524

Press @ RunDepth: 46.75 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.02.07 End Date: 2012.02.08 Last Calib.: 2012.02.08  
 Start Time: 19:40:00 End Time: 01:53:30 Time On Btm: 2012.02.07 @ 21:07:00  
 Time Off Btm: 2012.02.08 @ 00:27:30

**TEST COMMENT:** 1st Opening 10 Minutes-Weak blow built 6 inches into bucket water in 10 minutes  
 1st shut-in 45 Minutes-No blow back  
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes  
 2nd Shut-in 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1465.94	101.66	Initial Hydro-static
2	34.72	102.92	Open To Flow (1)
12	43.81	103.35	Shut-In(1)
57	209.16	104.89	End Shut-In(1)
58	42.03	104.94	Open To Flow (2)
101	46.75	106.49	Shut-In(2)
200	213.82	108.73	End Shut-In(2)
201	1449.83	108.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18740 **DST#: 3**  
 Test Start: 2012.02.07 @ 19:40:00

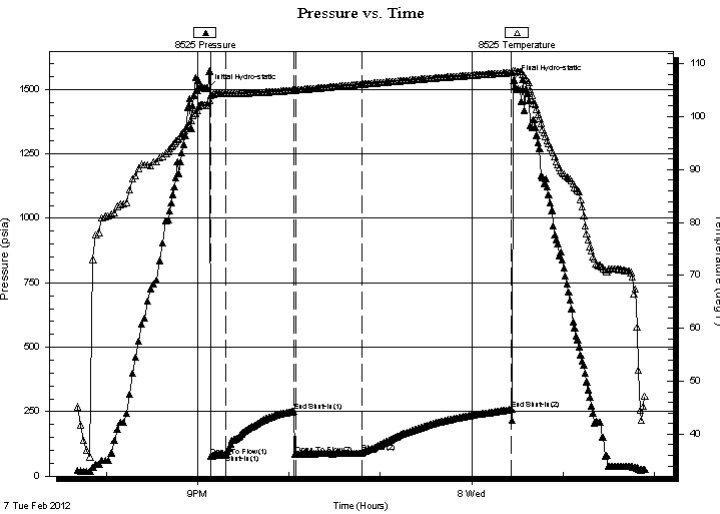
## GENERAL INFORMATION:

Formation: **Lansing "H"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:08:30 Tester: Jared Scheck  
 Time Test Ended: 01:53:30 Unit No: 3320-GB-70  
 Interval: **2987.00 ft (KB) To 3020.00 ft (KB) (TVD)** Reference Elevations: 1743.00 ft (KB)  
 Total Depth: 3020.00 ft (KB) (TVD) 1735.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8525

Press @ RunDepth: 258.94 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.02.07 End Date: 2012.02.08 Last Calib.: 2012.02.08  
 Start Time: 19:40:00 End Time: 01:53:30 Time On Btm: 2012.02.07 @ 21:06:30  
 Time Off Btm: 2012.02.08 @ 00:27:30

**TEST COMMENT:** 1st Opening 10 Minutes-Weak blow built 6 inches into bucket water in 10 minutes  
 1st shut-in 45 Minutes-No blow back  
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes  
 2nd Shut-in 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1504.36	102.16	Initial Hydro-static
2	76.03	104.03	Open To Flow (1)
12	85.43	104.40	Shut-In(1)
57	251.68	105.02	End Shut-In(1)
58	85.88	105.04	Open To Flow (2)
102	91.67	106.14	Shut-In(2)
200	258.94	108.34	End Shut-In(2)
201	1536.91	108.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 A T T N : Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18740      **DST#: 3**  
 Test Start: 2012.02.07 @ 19:40:00

## Tool Information

Drill Pipe:	Length: 2674.00 ft	Diameter: 3.80 inches	Volume: 37.51 bbl	Tool Weight:	1000.00 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: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 38.99 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	2987.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	2964.00	
Hydraulic Tool	5.00			2969.00	
Jars	6.00			2975.00	
Safety Joint	2.00			2977.00	
Packer	5.00			2982.00	28.00      Bottom Of Top Packer
Packer	5.00			2987.00	
Anchor	23.00			3010.00	
Recorder	1.00	8524	Inside	3011.00	
Recorder	1.00	8525	Outside	3012.00	
Bullnose	3.00			3015.00	28.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>56.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Valhalla Exploration L.L.C  
 133 N Glendale Wichita KS 67206  
 ATTN: Derek Patterson

**33-18s-10w Rice**  
**Ringwald #1-33**  
 Job Ticket: 18740      **DST#: 3**  
 Test Start: 2012.02.07 @ 19:40:00

### 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: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8800.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

