



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: _____



1095205

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
-----------------------------------	-----------	---------	-------------	---------------	---------

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Valhalla Exploration LLC
Well Name	MORGENSTERN 1-2
Doc ID	1095205

All Electric Logs Run

Dual Induction
Sonic
Micro
Neutron-Density



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: 1/25/2012
 Invoice # 195

P.O.#:

Due Date: 2/24/2012

Division: Russell

Invoice

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

Reference:
 MORGENSTERN 1-2

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	18	\$117.49	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				
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				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 200.77	No				

Invoice Terms:

Net 30

SubTotal: \$ 8,291.89

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,243.78)

SubTotal for Taxable Items: \$ 5,100.19

SubTotal for Non-Taxable Items: \$ 1,947.92

Total: \$ 7,048.11

Tax: \$ 372.31

7.30% Barton County Sales Tax

Amount Due: \$ 7,420.42

Applied Payments:

Balance Due: \$ 7,420.42

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
Cell 785-324-1041

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

No. 195

Date	12-9-11	Sec.	2	Twp.	17	Range	13	County	Barton	State	Ks	On Location		Finish	7:00 pm
Lease	Morgenstern	Well No.	1-2		Location		Susank, Ks - 35 to 160 Rd, 2 1/4 E								
Contractor	H-2 Drilling Rig #3				Owner		N/A info								
Type Job	Production				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	7 7/8"		T.D.		3450'		Charge To								
Csg.	5 1/2" New 15 1/2"		Depth		3452.45'		Valhalla Exploration								
Tbg. Size			Depth				Street 133 N. Glendale								
Tool			Depth				City Wichita State Ks 67208								
Cement Left in Csg.	22.56'		Shoe Joint		22.56'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		81 1/2 BLS		Cement Amount Ordered 175 sx Common 10% Salt, 5% Gilsonite - 500 Gal Mud Clear 48 - 20 Bl K'CL								

EQUIPMENT

Pumptrk	1	No.	Cementer Helper	Cisco	Common	175
Bulktrk	14	No.	Driver	Brian	Poz. Mix	
Bulktrk	pu	No.	Driver	Rick	Gel.	

JOB SERVICES & REMARKS

Remarks:	Hulls	KCL - 2
Rat Hole	30 SX	Salt 15
Mouse Hole	N/A	Flowseal
Centralizers	1, 3, 5, 7, 9, 11, 13, 15, 17	Kol-Seal 875#
Baskets	12	Mud CLR 48 500 gal
DAV or Port Collar		CFL-117 or CD110 CAF 38
pipe on bottom, break Circulation	Sand	
pump 500 gal Mud Clear 48	Handling	198
plug Rat hole w/ 30 SX	Mileage	

FLOAT EQUIPMENT

Cement 5 1/2" Casing w/ 145 SX	Guide Shoe	
Common 10% Salt, 5% Gilsonite	Centralizer	9 turbo's
Shut down, wash pump + lines	Baskets	1
Released plug + Displaced with 81 1/2 BLS. Released + held.	AFU Inserts	
Lift + pressure 750 # on mud pump	Float Shoe	1
Land plug to 2500 #	Latch Down	1

Rigged down.

Will Run Wireline on 12-12-11	Pumptrk Charge	pool Long String
to determine footage of the plug	Mileage	18
	Tax	
	Discount	
	Total Charge	

X Signature

Quality Oilwell Cementing, Inc.

Invoice #: 135 \$6957.74 (surface)

Invoice #: 195 \$7420.42 (Production long string)

Total \$14,378.16

Total for repair: \$15,657.15

Invoices: \$14,378.16
\$1,278.99 owed



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: 12/10/2011
 Invoice # 134

P.O.#:
 Due Date: 1/9/2012
 Division: Russell

Invoice

Contact:
 Valhalla Exploration
Address/Job Location:
 Valhalla Exploration
 133 N Glendale St
 Wichita KS 67208

Reference:
 MORGENSTERN 1-2

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	375	\$ 4,829.17	Yes				
Bulk Truck Matl-Material Service Charge	395	\$ 833.89	No				
Calcium Chloride	13	\$ 516.78	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 189.62	No				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 110.96	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 7,771.44
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,165.72)

SubTotal for Taxable Items:	\$ 4,822.16
SubTotal for Non-Taxable Items:	\$ 1,783.57
Total:	\$ 6,605.73
Tax:	\$ 352.02

7.30% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 6,957.74
Applied Payments:
Balance Due: \$ 6,957.74

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. 134

Cell 785-324-1041

Date	12-3-11	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Morganstern	Well No.	1-2	Location	Susank 3S 24E 11nd			
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	Surface	Hole Size	12 1/4	T.D.	773	Charge To	Kathalla Exploration	
Csg.	88 236	Depth	773	Street				
Tbg. Size		Depth		City	State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered 375 Common 300 200				
Meas Line		Displace						

EQUIPMENT

Pumptrk	5	No.	Cementer	Steve	Common	375
			Helper			
Bulktrk	12	No.	Driver	Calvin	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Dave	Gel.	7
			Driver		Calcium	13

JOB SERVICES & REMARKS

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
	Sand
	Handling 395
	Mileage

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	Baffle Plate
	88 Rubber Plug
Pumptrk Charge	Long Surface
Mileage	18

X Signature <i>Randy Soren</i>	Tax
	Discount
	Total Charge



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: 4/26/2012
 Invoice # 493

P.O.#:

Due Date: 5/26/2012
 Division: Russell

Invoice

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

Reference:
 MORGENSTERN 1-2

Description of Work:
 SQUEEZ JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	100	\$ 1,363.53	Yes				
Bulk Truck Matl-Material Service Charge	100	\$ 223.53	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 200.77	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 117.49	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 2,925.87

Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (438.88)

SubTotal for Taxable Items: \$ 2,486.99

SubTotal for Non-Taxable Items: \$ -

Total: \$ 2,486.99

Tax: \$ 181.55

7.30% Barton County Sales Tax

Amount Due: \$ 2,668.54

Applied Payments:

Balance Due: \$ 2,668.54

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
Cell 785-324-1041

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

No. 493

Date	4-23-12	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Marquastern	Well No.	1-2	Location	Heisington	3N 24E N1/4		11:00 PM
Contractor	D.S. & W	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	Squeeze	Hole Size	T.D.	Csg.	Depth	Charge To	Valhalla	
Tbg. Size	2 3/8	Depth		Street				
Tool	Dani's	Depth	3212	City		State		
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line		Displace		Cement Amount Ordered	100 Common 2% CC on side			

EQUIPMENT

Pumptrk	5	No.	Cementer	Steve	Common	100
			Helper			
Bulktrk	8	No.	Driver	Becht	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Lanier	Gel.	
			Driver			

JOB SERVICES & REMARKS

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
Parts @ 3326-3328	Sand
Packer @ 3212 to squeeze	Handling 100
	Mileage

FLOAT EQUIPMENT

Try make 2 1/2 BPM @ 800psi	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Mix 30sx Com followed by 30sx 2% CC

Held 2000 psi Wash clean

Pull 10' to 9' Stud in @ 400psi

Signature: *[Handwritten Signature]*

Pumptrk Charge	Squeeze
Mileage	18
Tax	
Discount	
Total Charge	



DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C.**

133 North Glendale
Wichita, Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-2

2-17s-13w Barton

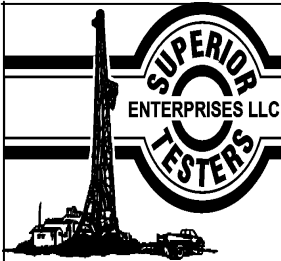
Start Date: 2011.12.06 @ 07:00:00

End Date: 2011.12.06 @ 00:00:00

Job Ticket #: 17663 DST #: 1

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

Printed: 2011.12.07 @ 03:20:00



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 17663

DST#: 1

ATTN: Adam Kennedy

Test Start: 2011.12.06 @ 07:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-44

Interval: 3072.00 ft (KB) To 3103.00 ft (KB) (TVD)

Reference Elevations: 1867.00 ft (KB)

Total Depth: 3103.00 ft (KB) (TVD)

1859.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524

Press @ Run Depth: 799.46 psia @ ft (KB)

Capacity: psia

Start Date: 2011.12.07

End Date: 2011.12.07

Last Calib.: 1899.12.30

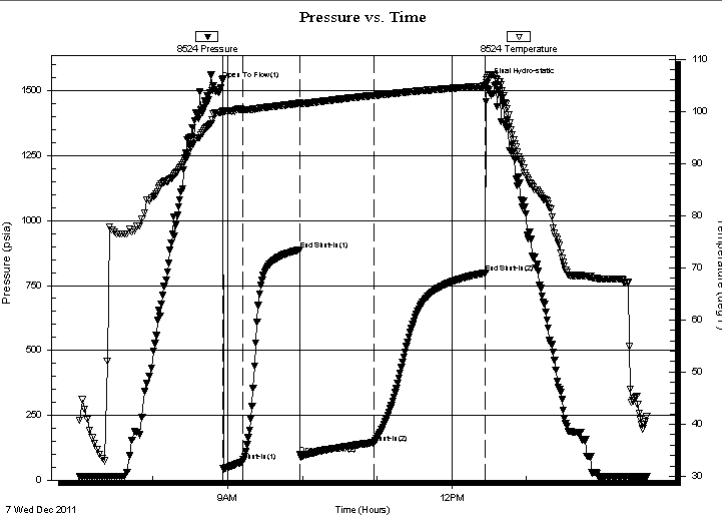
Start Time: 07:00:00

End Time: 14:37:00

Time On Btm:

Time Off Btm: 2011.12.07 @ 12:28:00

TEST COMMENT: 1st Opening 19 Minutes Weak blow for 3 minutes and died to weak intermittent than built to the bottom of a 5 gallon bucket in 12 minutes
1st Shut-In 45 Minutes-No blow back
2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1545.44	100.08	Open To Flow (1)
16	71.65	100.37	Shut-In(1)
62	887.95	101.53	End Shut-In(1)
62	98.53	101.40	Open To Flow (2)
122	143.48	103.03	Shut-In(2)
211	799.46	104.84	End Shut-In(2)
212	1530.52	106.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of Gas in the pipe	0.00
40.00	Clean gassy oil 35%Gas 65%Oil	0.20
90.00	mud cut gassy oil	0.44
0.00	35%Gas 45%Oil 20%Mud	0.00
60.00	Muddy Gassy Oil	0.30
0.00	30%Gas 30%Oil 40% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 17663

DST#: 1

ATTN: Adam Kennedy

Test Start: 2011.12.06 @ 07:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-44

Interval: 3072.00 ft (KB) To 3103.00 ft (KB) (TVD)

Reference Elevations: 1867.00 ft (KB)

Total Depth: 3103.00 ft (KB) (TVD)

1859.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8419

Press @ Run Depth: 802.63 psia @ ft (KB)

Capacity: psia

Start Date: 2011.12.07

End Date: 2011.12.07

Last Calib.: 1899.12.30

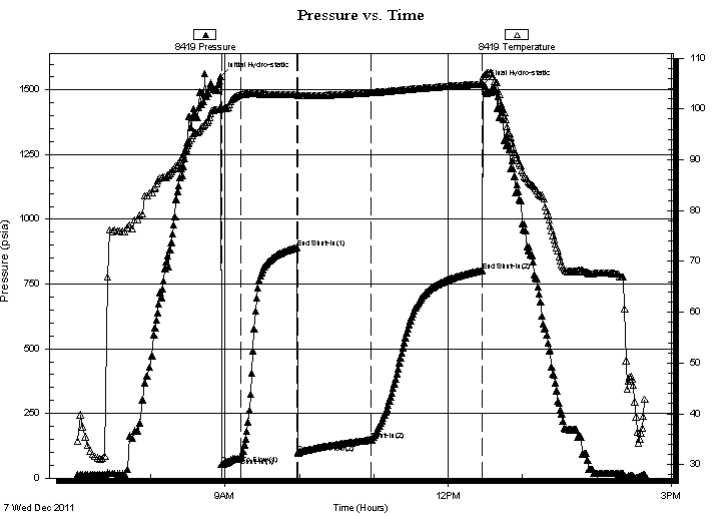
Start Time: 07:00:00

End Time: 14:38:30

Time On Btm: 2011.12.07 @ 08:56:30

Time Off Btm: 2011.12.07 @ 12:28:30

TEST COMMENT: 1st Opening 19 Minutes Weak blow for 3 minutes and died to weak intermittent than built to the bottom of a 5 gallon bucket in 12 minutes
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1551.94	100.42	Initial Hydro-static
1	54.75	100.15	Open To Flow (1)
16	80.42	102.84	Shut-In(1)
62	890.97	102.78	End Shut-In(1)
63	97.76	102.63	Open To Flow (2)
122	148.10	103.23	Shut-In(2)
211	802.63	104.92	End Shut-In(2)
212	1520.99	106.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of Gas in the pipe	0.00
40.00	Clean gassy oil 35%Gas 65%Oil	0.20
90.00	mud cut gassy oil	0.44
0.00	35%Gas 45%Oil 20%Mud	0.00
60.00	Muddy Gassy Oil	0.30
0.00	30%Gas 30%Oil 40% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 17663

DST#: 1

ATTN: Adam Kennedy

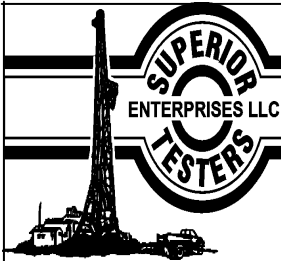
Test Start: 2011.12.06 @ 07:00:00

Tool Information

Drill Pipe:	Length: 2759.00 ft	Diameter: 3.80 inches	Volume: 38.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 40.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3072.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 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	3049.00	
Hydraulic Tool	5.00			3054.00	
Jars	6.00			3060.00	
Safety Joint	2.00			3062.00	
Packer	5.00			3067.00	28.00 Bottom Of Top Packer
Packer	5.00			3072.00	
Anchor	26.00			3098.00	
Recorder	1.00	8419	Inside	3099.00	
Recorder	1.00	8524	Outside	3100.00	
Bullnose	3.00			3103.00	31.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 17663

DST#: 1

ATTN: Adam Kennedy

Test Start: 2011.12.06 @ 07:00:00

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: 4700.00 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
0.00	200 feet of Gas in the pipe	0.000
40.00	Clean gassy oil 35%Gaas 65%Oil	0.197
90.00	mud cut gassy oil	0.443
0.00	35%Gas 45%Oil 20%Mud	0.000
60.00	Muddy Gassy Oil	0.295
0.00	30%Gas 30%Oil 40% Mud	0.000
60.00	Muddy Gassy Oil	0.295
0.00	30%Gas 35%Oil 35%Mud	0.000

Total Length: 250.00 ft Total Volume: 1.230 bbl

Num Fluid Samples: 0

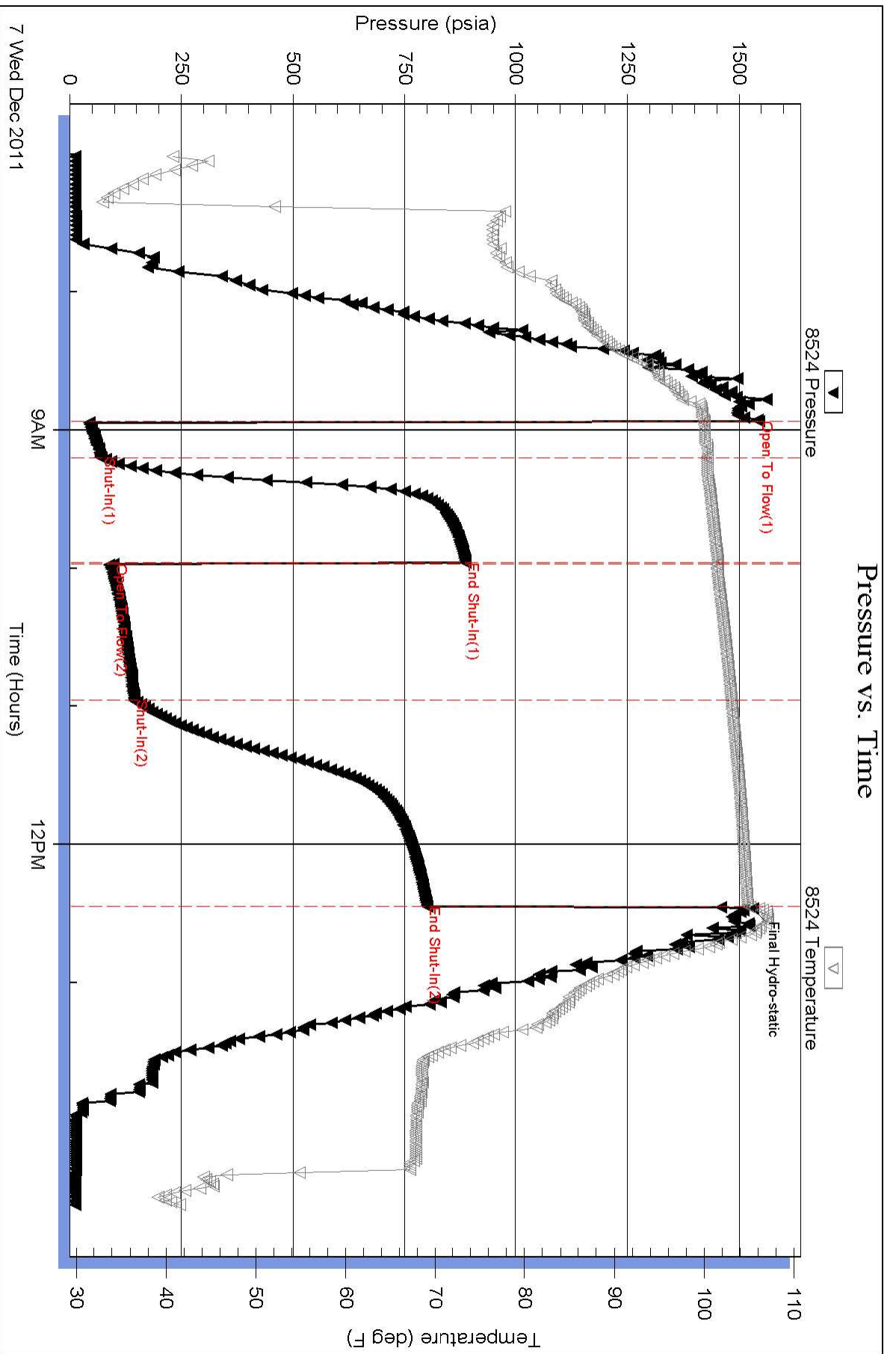
Num Gas Bombs: 0

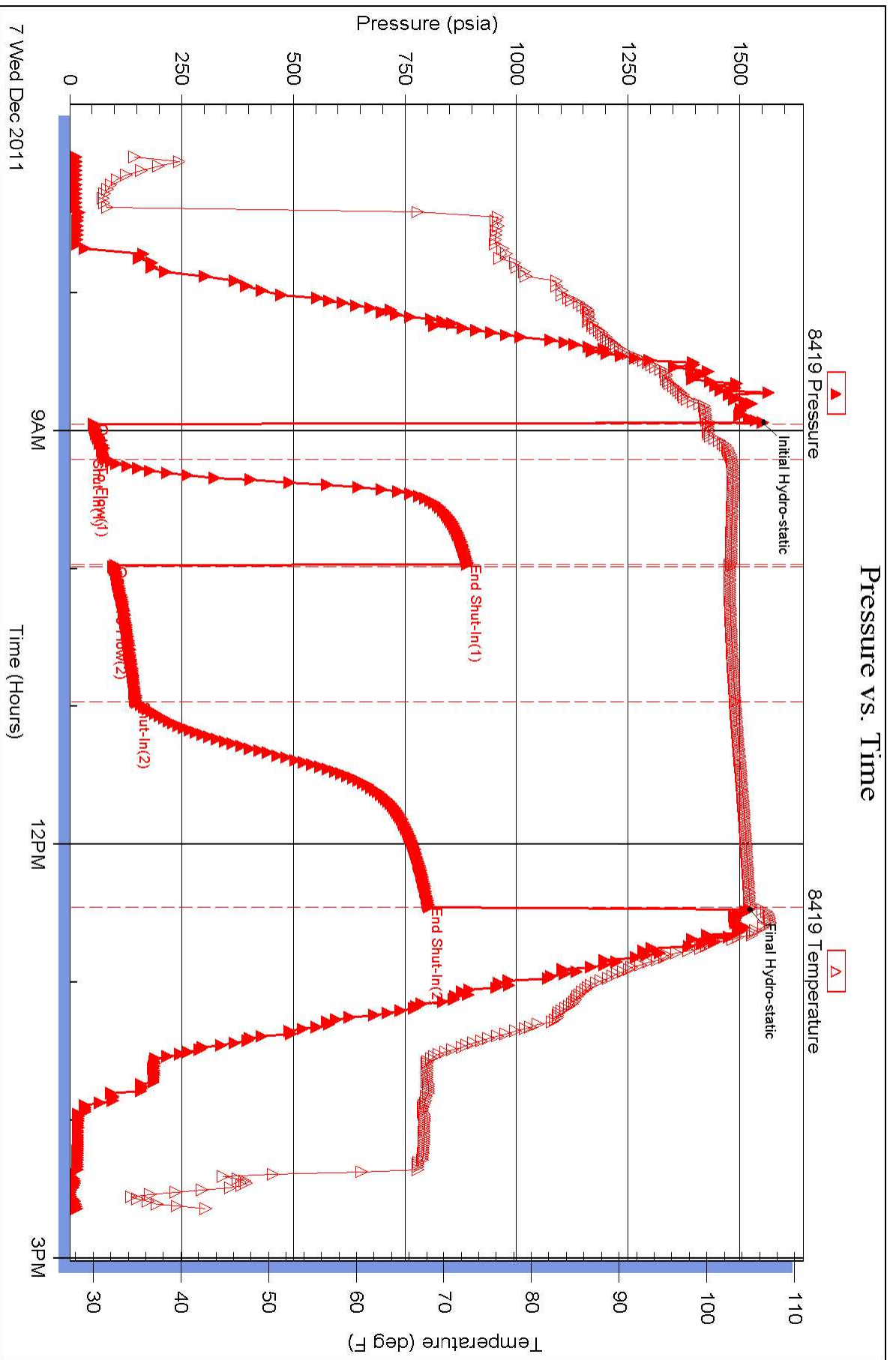
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C.**

133 North Glendale
Wichita, Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-2

2-17s-13w Barton

Start Date: 2011.12.08 @ 09:30:00

End Date: 2011.12.08 @ 00:00:00

Job Ticket #: 18664 DST #: 2

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

Printed: 2011.12.08 @ 03:14:52



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18664

DST#: 2

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 09:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

Interval: 3307.00 ft (KB) To 3327.00 ft (KB) (TVD)

Reference Elevations: 1867.00 ft (KB)

Total Depth: 3327.00 ft (KB) (TVD)

1859.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press @ Run Depth: 1110.51 psia @ 3324.00 ft (KB)

Capacity: psia

Start Date: 2011.12.08

End Date: 2011.12.08

Last Calib.: 1899.12.30

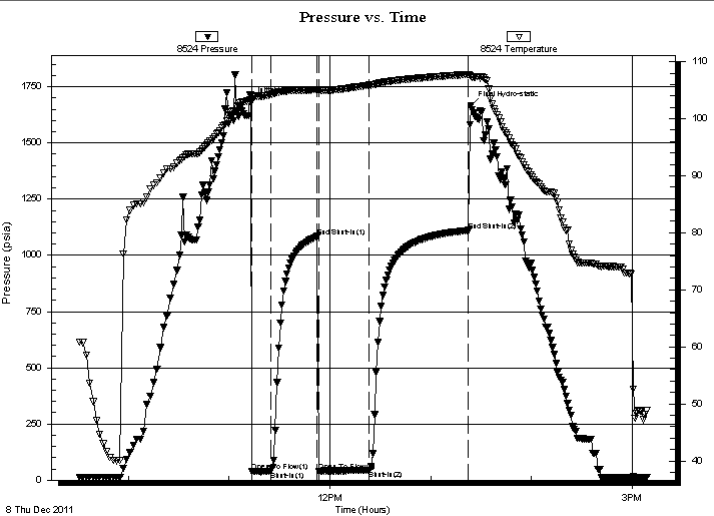
Start Time: 09:30:00

End Time: 15:09:00

Time On Btm: 2011.12.08 @ 11:13:00

Time Off Btm: 2011.12.08 @ 13:24:00

TEST COMMENT: 1st Opening 10 Minutes-Weak blow for 7 minutes and died
1st Shut-In 30 Minutes-No blow back
2nd Opening 30 Minutes-No blow
2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1681.63	103.92	Initial Hydro-static
1	38.57	103.78	Open To Flow (1)
12	38.50	104.23	Shut-In(1)
40	1083.89	105.10	End Shut-In(1)
41	39.18	104.93	Open To Flow (2)
70	44.65	105.86	Shut-In(2)
130	1110.51	107.77	End Shut-In(2)
131	1665.25	107.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Clean Gass Oil	0.07
5.00	Oil and Gas Cut Mud	0.02
0.00	15%Gas 45%Oil 40%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18664

DST#: 2

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 09:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3307.00 ft (KB) To 3327.00 ft (KB) (TVD)**
 Total Depth: 3327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335-42
 Reference Elevations: 1867.00 ft (KB)
 1859.00 ft (CF)
 KB to GR/CF: 8.00 ft

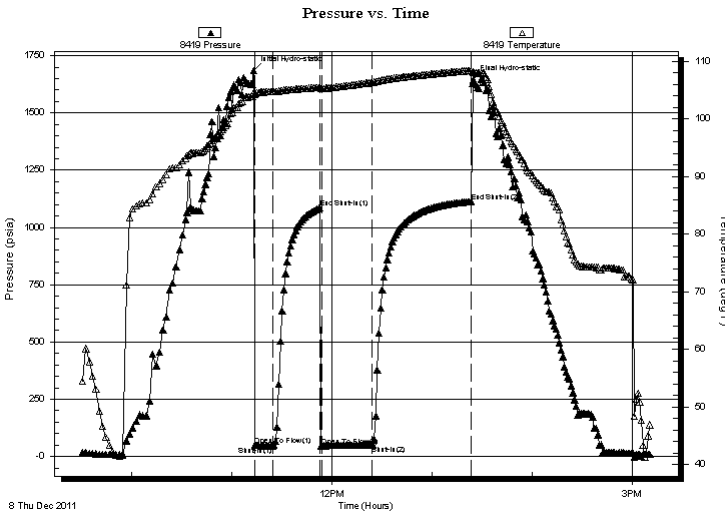
Serial #: 8419

Inside

Press @ Run Depth: 1114.07 psia @ 3323.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.12.08 End Date: 2011.12.08 Last Calib.: 2011.12.08
 Start Time: 09:30:00 End Time: 15:11:00 Time On Btm: 2011.12.08 @ 11:13:30
 Time Off Btm: 2011.12.08 @ 13:25:00

TEST COMMENT: 1st Opening 10 Minutes-Weak blow for 7 minutes and died
 1st Shut-In 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow
 2nd Shut-In 60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1685.89	104.50	Initial Hydro-static
1	48.85	104.27	Open To Flow (1)
12	45.97	104.71	Shut-In(1)
40	1085.44	105.49	End Shut-In(1)
41	46.51	105.30	Open To Flow (2)
71	50.49	106.31	Shut-In(2)
130	1114.07	108.40	End Shut-In(2)
132	1644.26	108.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Clean Gass Oil	0.07
5.00	Oil and Gas Cut Mud	0.02
0.00	15%Gas 45%Oil 40%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18664

DST#: 2

ATTN: Adam Kennedy

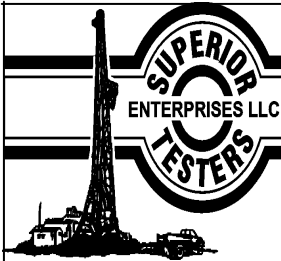
Test Start: 2011.12.08 @ 09:30:00

Tool Information

Drill Pipe:	Length: 2979.00 ft	Diameter: 3.80 inches	Volume: 41.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.86 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3307.00 ft			Final 62000.00 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-InTool	5.00		Inside	3284.00	
Hydraulic Tool	5.00			3289.00	
Jars	6.00			3295.00	
Safety Joint	2.00			3297.00	
Packer	5.00			3302.00	28.00 Bottom Of Top Packer
Packer	5.00			3307.00	
Anchor	15.00			3322.00	
Recorder	1.00	8419	Inside	3323.00	
Recorder	1.00	8524	Outside	3324.00	
Bullnose	3.00			3327.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18664

DST#: 2

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 09:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 7100.00 ppm
Filter Cake: 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
15.00	Clean Gass Oil	0.074
5.00	Oil and Gas Cut Mud	0.025
0.00	15%Gas 45%Oil 40%Mud	0.000

Total Length: 20.00 ft Total Volume: 0.099 bbl

Num Fluid Samples: 0

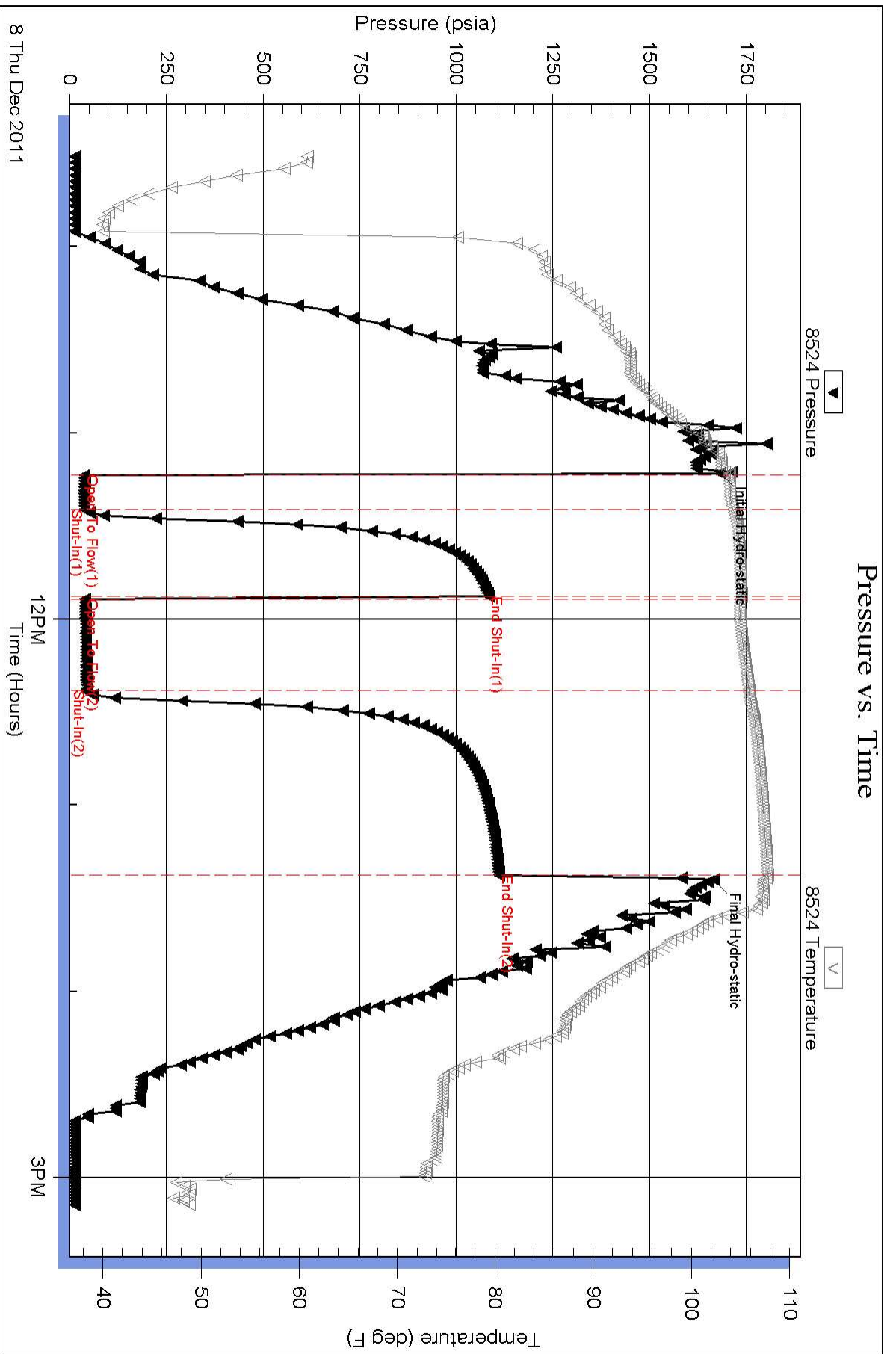
Num Gas Bombs: 0

Serial #:

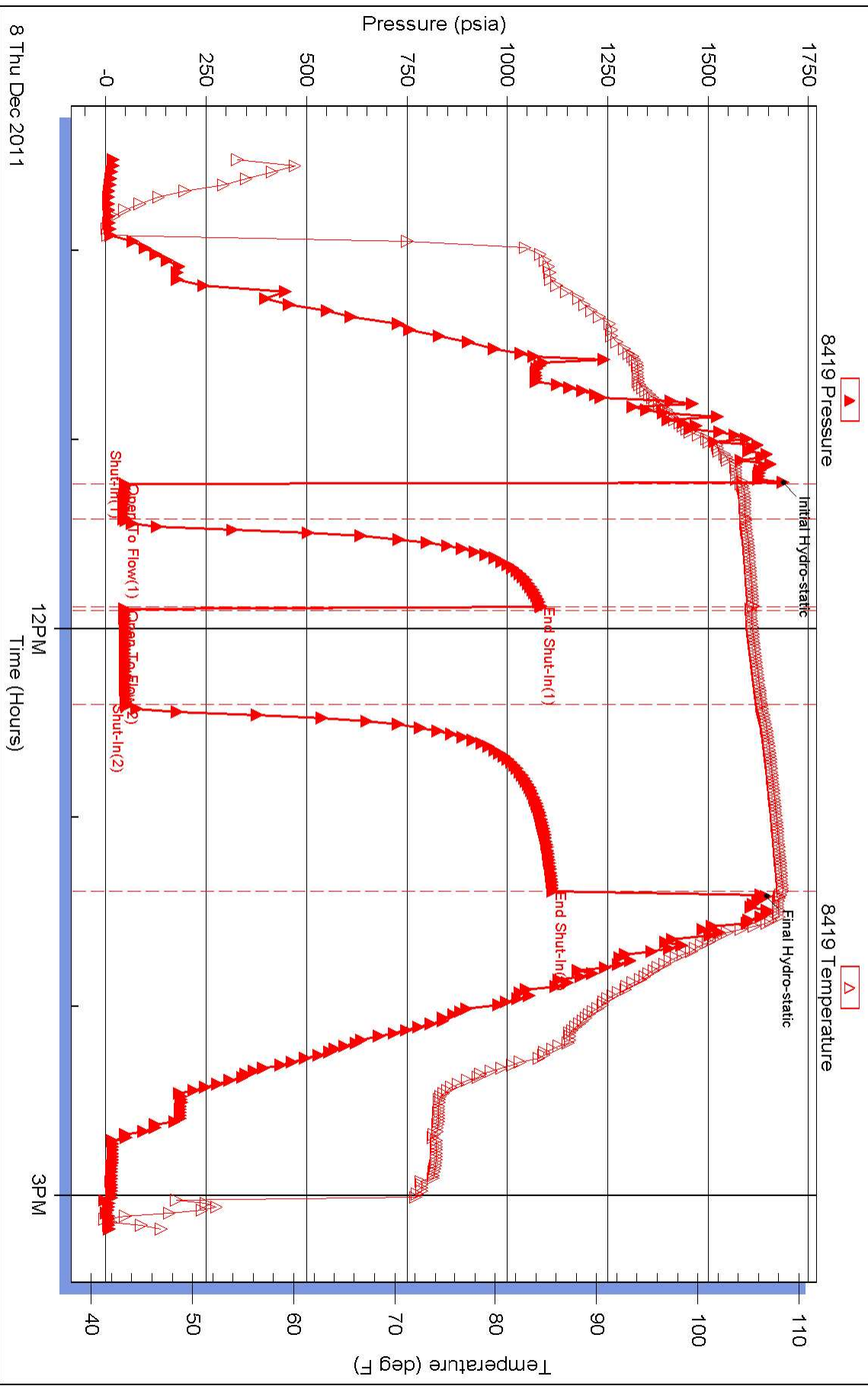
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C.**

133 North Glendale
Wichita, Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-2

2-17s-13w Barton

Start Date: 2011.12.08 @ 10:30:00

End Date: 2011.12.08 @ 00:00:00

Job Ticket #: 18665 DST #: 3

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

Printed: 2011.12.08 @ 17:15:14



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18665

DST#: 3

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 10:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

Interval: 3326.00 ft (KB) To 3332.00 ft (KB) (TVD)

Reference Elevations: 1867.00 ft (KB)

Total Depth: 3332.00 ft (KB) (TVD)

1859.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press @ RunDepth: 998.62 psia @ 3329.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.12.08

End Date: 2011.12.08

Last Calib.: 2011.12.08

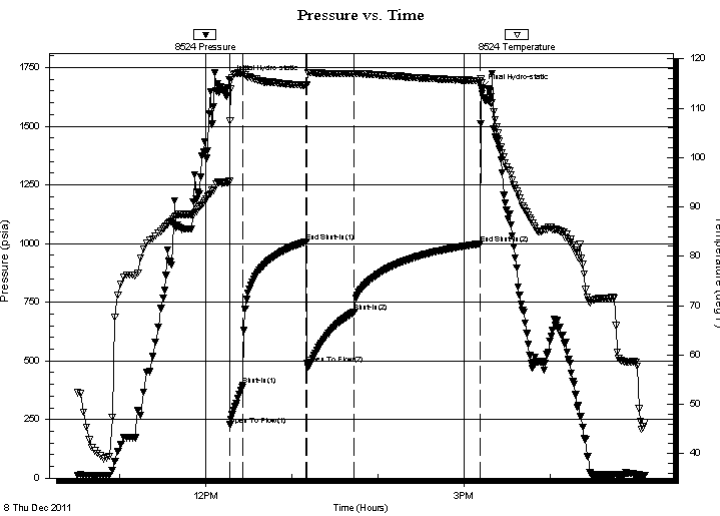
Start Time: 10:30:00

End Time: 17:06:00

Time On Btm: 2011.12.08 @ 12:16:30

Time Off Btm: 2011.12.08 @ 15:12:00

TEST COMMENT: 1st Opening 10 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 30 Minutes-good blow built to the bottom of a 5 gallon bucket in 1 minute
 2nd Shut-In 90 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1698.57	95.17	Initial Hydro-static
1	227.56	107.49	Open To Flow (1)
10	395.98	117.11	Shut-In(1)
54	1007.93	114.59	End Shut-In(1)
54	488.13	114.80	Open To Flow (2)
88	709.39	116.97	Shut-In(2)
175	998.62	115.60	End Shut-In(2)
176	1662.37	115.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Clean Oil 5%Gas 95%Oil Gravity 39	0.74
60.00	Oil cut muddy w ater	0.30
0.00	5%Gas30%Oil 20%Mud 45%w ater	0.00
60.00	Oil cut muddy w ater	0.30
0.00	5%Gas 10%Oil 20%Mud 65%w ater	0.00
180.00	Slightly oil and mud cut w ater	2.16

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18665

DST#: 3

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 10:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

Interval: 3326.00 ft (KB) To 3332.00 ft (KB) (TVD)

Reference Elevations: 1867.00 ft (KB)

Total Depth: 3332.00 ft (KB) (TVD)

1859.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8419 Inside

Press @ RunDepth: 1001.50 psia @ 3328.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.12.08

End Date: 2011.12.08

Last Calib.: 2011.12.08

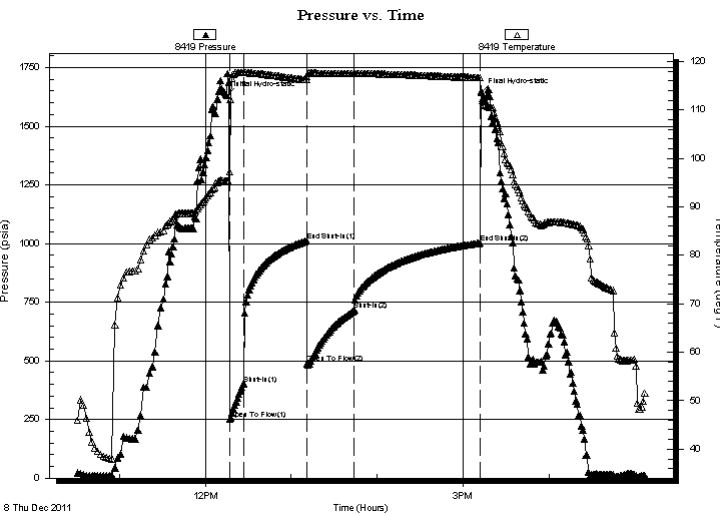
Start Time: 10:30:00

End Time: 17:07:00

Time On Btm: 2011.12.08 @ 12:15:00

Time Off Btm: 2011.12.08 @ 15:12:30

TEST COMMENT: 1st Opening 10 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minute
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 30 Minutes-good blow built to the bottom of a 5 gallon bucket in 1 minute
 2nd Shut-In 90 Minutes- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1629.35	95.35	Initial Hydro-static
2	250.51	97.23	Open To Flow (1)
12	402.54	117.67	Shut-In(1)
56	1010.59	116.22	End Shut-In(1)
56	488.67	116.86	Open To Flow (2)
89	715.95	117.44	Shut-In(2)
177	1001.50	116.66	End Shut-In(2)
178	1644.89	113.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Clean Oil 5%Gas 95%Oil Gravity 39	0.74
60.00	Oil cut muddy w ater	0.30
0.00	5%Gas30%Oil 20%Mud 45%w ater	0.00
60.00	Oil cut muddy w ater	0.30
0.00	5%Gas 10%Oil 20%Mud 65%w ater	0.00
180.00	Slightly oil and mud cut w ater	2.16

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18665

DST#: 3

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 10:30:00

Tool Information

Drill Pipe:	Length: 3008.00 ft	Diameter: 3.80 inches	Volume: 42.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.86 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3326.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	29.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3308.00	
Hydraulic Tool	5.00			3313.00	
Jars	6.00			3319.00	
Safety Joint	2.00			3321.00	
Packer	5.00			3326.00	23.00 Bottom Of Top Packer
Anchor	1.00			3327.00	
Recorder	1.00	8419	Inside	3328.00	
Recorder	1.00	8524	Outside	3329.00	
Bullnose	3.00			3332.00	6.00 Anchor Tool
Total Tool Length:	29.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration L.L.C.

2-17s-13w Barton

133 North Glendale
Wichita, Kansas 67208

Morgenstern #1-2

Job Ticket: 18665

DST#: 3

ATTN: Adam Kennedy

Test Start: 2011.12.08 @ 10:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 6300.00 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
150.00	Clean Oil 5%Gas 95%Oil Gravity 39	0.738
60.00	Oil cut muddy w ater	0.295
0.00	5%Gas30%Oil 20%Mud 45%w ater	0.000
60.00	Oil cut muddy w ater	0.295
0.00	5%Gas 10%Oil 20%Mud 65%w ater	0.000
180.00	Slightly oil and mud cut w ater	2.161
0.00	8%Oil 10%Mud 82%Water	0.000
240.00	Slightly oil cut w ater	3.367
0.00	3%Oil 2%Mud 95%w ater	0.000
1050.00	Water chlorides 18000	14.729
0.00	Resistivity 3.75 @58 Degrees	0.000

Total Length: 1740.00 ft Total Volume: 21.585 bbl

Num Fluid Samples: 0

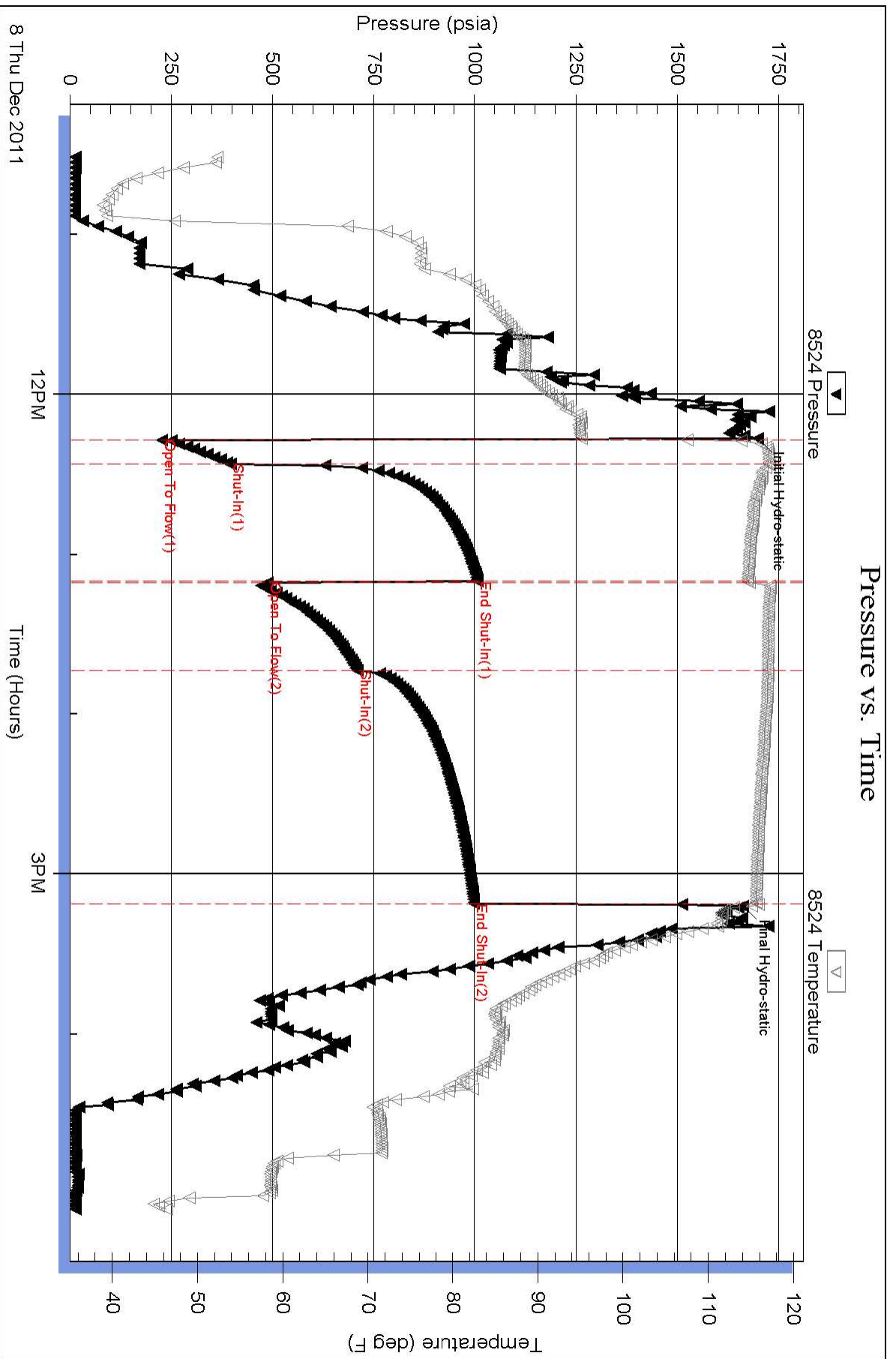
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time

