



KANSAS CORPORATION COMMISSION 1095205
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 # 33483
Name: Valhalla Exploration LLC
Address 1: 133 N GLENDALE ST
Address 2: _____
City: WICHITA State: KS Zip: 67208 + 4022
Contact Person: Kris Kennedy
Phone: (316) 558-5202
CONTRACTOR: License # 33793
Name: H2 Drilling LLC
Wellsite Geologist: Adam T. Kennedy
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 #: _____

12/02/2011 12/09/2011 12/27/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-009-25642-00-00

Spot Description: _____

SW SE SW Sec. 2 Twp. 17 S. R. 13 East West
330 Feet from North / South Line of Section
1650 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Barton

Lease Name: MORGENSTERN Well #: 1-2

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 1862 Kelly Bushing: 1867

Total Depth: 3450 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 773 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: 5100 ppm Fluid volume: 3000 bbls

Dewatering method used: Evaporated

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 regulations 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: Deanna Garriso Date: 10/17/2012



1095205

Operator Name: Valhalla Exploration LLC Lease Name: MORGENSTERN Well #: 1-2
 Sec. 2 Twp. 17 S. R. 13 East West County: Barton

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>2987</td> <td>-1123</td> </tr> <tr> <td>Brown Lime</td> <td>3075</td> <td>-1208</td> </tr> <tr> <td>Lansing</td> <td>3089</td> <td>-1222</td> </tr> <tr> <td>Base Kansas City</td> <td>3305</td> <td>-1438</td> </tr> <tr> <td>Arbuckle</td> <td>3325</td> <td>-1458</td> </tr> <tr> <td>RTD</td> <td>3450</td> <td>-1583</td> </tr> </table>	Name	Top	Datum	Heebner	2987	-1123	Brown Lime	3075	-1208	Lansing	3089	-1222	Base Kansas City	3305	-1438	Arbuckle	3325	-1458	RTD	3450	-1583
Name	Top	Datum																				
Heebner	2987	-1123																				
Brown Lime	3075	-1208																				
Lansing	3089	-1222																				
Base Kansas City	3305	-1438																				
Arbuckle	3325	-1458																				
RTD	3450	-1583																				

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	773	Common	375	2% gel 3% CC
Production	7.875	5.5	15.5	3447	Common	150	10% salt 5% gilsonite

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
4	3332-3334	Acid 1000gal 28% NE Ffe	3332-3334
6	3326-3328	Acid 800gal 15% Acetic	3326-3328

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3324</u> Packer At: <u>N/A</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR: <u>02/01/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u> Gas Mcf <u>0</u> Water Bbls. <u>0</u> Gas-Oil Ratio _____ Gravity <u>40</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3326</u> <u>3334</u>
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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

Thank You For Your Business!

Amount Due: \$ 7,420.42
Applied Payments:
Balance Due: \$ 7,420.42

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.

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 Susan K, 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'												
Csg.	5" New 15#		Depth	3452.45'												
Tbg. Size			Depth													
Tool			Depth													
Cement Left In Csg.	22.56'		Shoe Joint	22.56'												
Meas Line			Displace	8 1/2 BLS												
EQUIPMENT								Gilsonite - 500 Gal Mud Clear 48 - 20 Bl KCL								
Pumptrk	1	No.	Cement	Cisto												
			Helper													
Bulktrk	14	No.	Driver	Brian												
			Driver													
Bulktrk	pm	No.	Driver	Rick												
			Driver													
JOB SERVICES & REMARKS								Common 175								
Remarks:								Poz. Mix								
Rat Hole 30 SX								Gel.								
Mouse Hole N/A								Calcium								
Centralizers 1, 3, 5, 7, 9, 11, 13, 15, 17								Hulls KCL - 2								
Baskets 12								Salt 15								
D/V or Port Collar								Flowseal								
pipe on bottom break Circulation								Kol-Seal 875#								
pump 500 gal Mud Clear 48								Mud CLR 48 500 gal								
plug Rat hole w/ 30 SX								CFL-117 or CD110 CAF 38								
Cement 5" casing w/ 145 SX								Sand								
Common 10% salt, 5% Gilsonite								Handling 198								
Shut down, wash pump & lines								Mileage								
Released plug & Displaced with								FLOAT EQUIPMENT								
8 1/2 BLS Released & held								Guide Shoe								
Lift pressure 1750 # on mud pump								Centralizer 9 turbo's								
Land plug to 2500 #								Baskets 1								
Rigged down								AFU Inserts								
Will Run Wireline on 12-12-11								Float Shoe 1								
to determine footage of the plug								Latch Down 1								
Signature								Pumptrk Charge								
								Mileage 18								
								Tax								
								Discount								
								Total Charge								

Quality Oilwell Cementing, Inc.

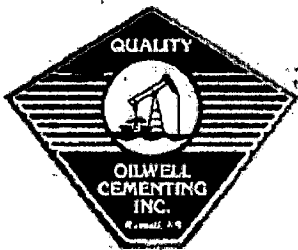
Invoice #: 135 \$6957.74 (surface)

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.
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 134

Date	12-3-11	Sec.	Twsp.	Range	County	State	On Location	Finish
Lease	Morganstern	Well No.	1-2	Location	Susank 35 24E	Winds		
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	Charge To	Vadivilla Exploration					
Hole Size	12 1/4	T.D.	773					
Csg.	8 3/8 236	Depth	773					
Tbg. Size		Depth						
Tool		Depth		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	375 Common 300 200			

EQUIPMENT

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

JOB SERVICES & REMARKS

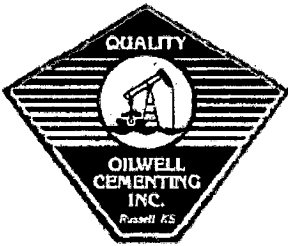
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
DV or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 395
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Long Surface
	Mileage 18

Tax
Discount
Total Charge

X Signature *Kinda Soren*



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 Mat-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: <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (438.88)
<hr/>		
	SubTotal for Taxable Items:	\$ 2,486.99
	SubTotal for Non-Taxable Items:	\$ -
<hr/>		
	Total:	\$ 2,486.99
	Tax:	\$ 181.55
	Amount Due:	\$ 2,668.54
	Applied Payments:	
	Balance Due:	\$ 2,668.54

7.30% Barton County Sales Tax

Thank You For Your Business!

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QUALITY OILWELL CEMENTING, INC.

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

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

No. 493

Date <u>4-23-12</u>	Sec.	Twp.	Range	County <u>Barton</u>	State <u>Kansas</u>	On Location	Finish <u>11:00 PM</u>
Lease <u>Macquinstern</u>	Well No. <u>1-2</u>			Location <u>Heisington 3N 24E N1/4</u>			
Contractor <u>D.S. & W</u>				Owner			
Type Job <u>Squeeze</u>				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		T.D.		Charge To <u>Valhalla</u>			
Csg. <u>5 1/2</u>		Depth		Street			
Tbg. Size <u>2 3/8</u>		Depth		City			
Tool <u>Dom's</u>		Depth <u>3212</u>		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 <u>100 Common 2% CC on side</u>			

EQUIPMENT

Pumptrk <u>5</u>	No.	Cementer <u>Steve</u>	Helper <u>Steve</u>	Common <u>100</u>
Bulktrk <u>8</u>	No.	Driver <u>P. Smith</u>	Driver <u>P. Smith</u>	Poz. Mix
Bulktrk	No.	Driver <u>L. Smith</u>	Driver <u>L. Smith</u>	Gel.

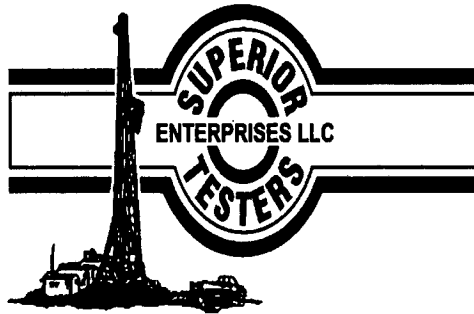
JOB SERVICES & REMARKS

Remarks:	Calcium
Rat. Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<u>Puffs @ 3376-3328</u>	CFL-117 or CD110 CAF 38
<u>Packer @ 3212 to squeeze</u>	Sand
<u>Try rate 2. BPM @ 800ps</u>	Handling <u>100</u>
	Mileage

FLOAT EQUIPMENT

<u>Mix 50sx Com followed by 50sx 2% CC</u>	Guide Shoe
<u>Held 2000 ps</u>	Centralizer
<u>Pull 10fts & Stud in @ 400ps</u>	Baskets
<u>Thank you</u>	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge <u>Squeeze</u>
	Mileage <u>18</u>

Signature <u>[Signature]</u>	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

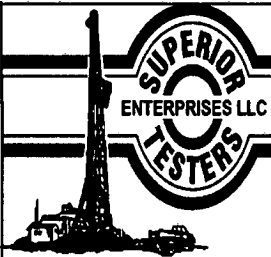
End Date: 2011.12.06 @ 00:00:00

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

Valhalla Exploration L.L.C. 2-17s-13w Barton Morgenstern #1-2 DST # 1 Kansa scity "A" 2011.12.06



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C.
 133 North Glendale
 Wichita, Kansas 67208
 ATTN: Adam Kennedy

2-17s-13w Barton
Morgenstern #1-2
 Job Ticket: 17663 **DST#: 1**
 Test Start: 2011.12.06 @ 07:00:00

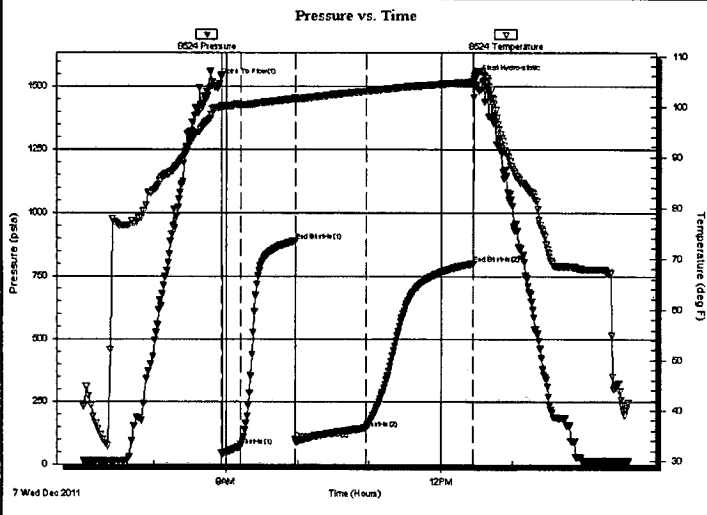
GENERAL INFORMATION:

Formation: **Kansas City "A"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 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@RunDepth: 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



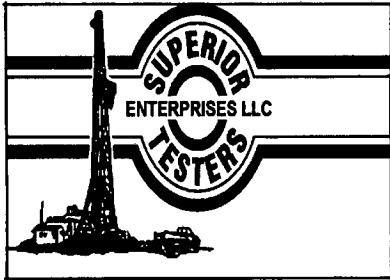
PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1545.44	100.08	Open To Flow (1)
16	71.65	100.37	Shut-in(1)
62	887.95	101.53	End Shut-in(1)
62	98.53	101.40	Open To Flow (2)
122	143.48	103.03	Shut-in(2)
211	799.46	104.84	End Shut-in(2)
212	1530.52	106.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of Gas in the pipe	0.00
40.00	Clean gassy oil 35%Gaas 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@RunDepth: 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

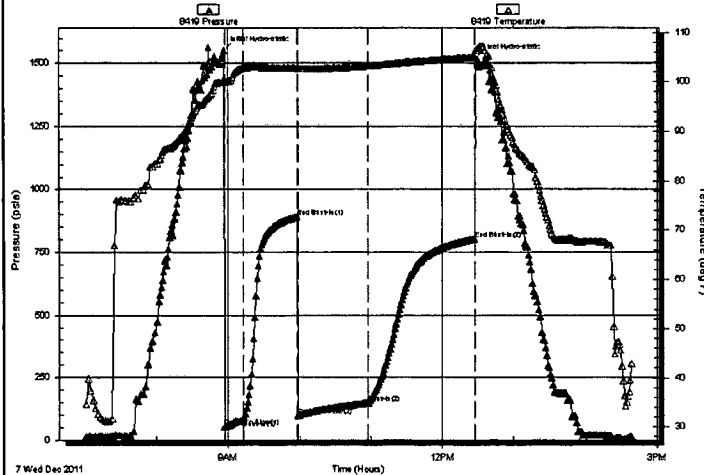
End Time: 14:38:30

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 vs. Time



PRESSURE SUMMARY

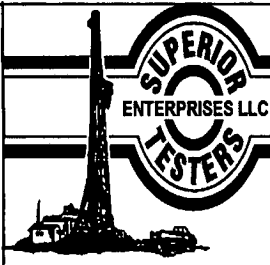
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1551.94	100.42	Initial Hydro-static
1	54.75	100.15	Open To Flow (1)
16	80.42	102.84	Shut-in(1)
62	890.97	102.78	End Shut-In(1)
63	97.76	102.63	Open To Flow (2)
122	148.10	103.23	Shut-in(2)
211	802.63	104.92	End Shut-In(2)
212	1520.99	106.34	Final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

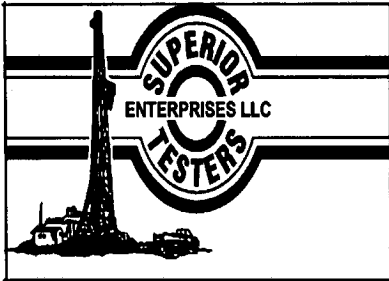
Test Start: 2011.12.06 @ 07:00:00

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	
Hydrolic 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

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: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

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

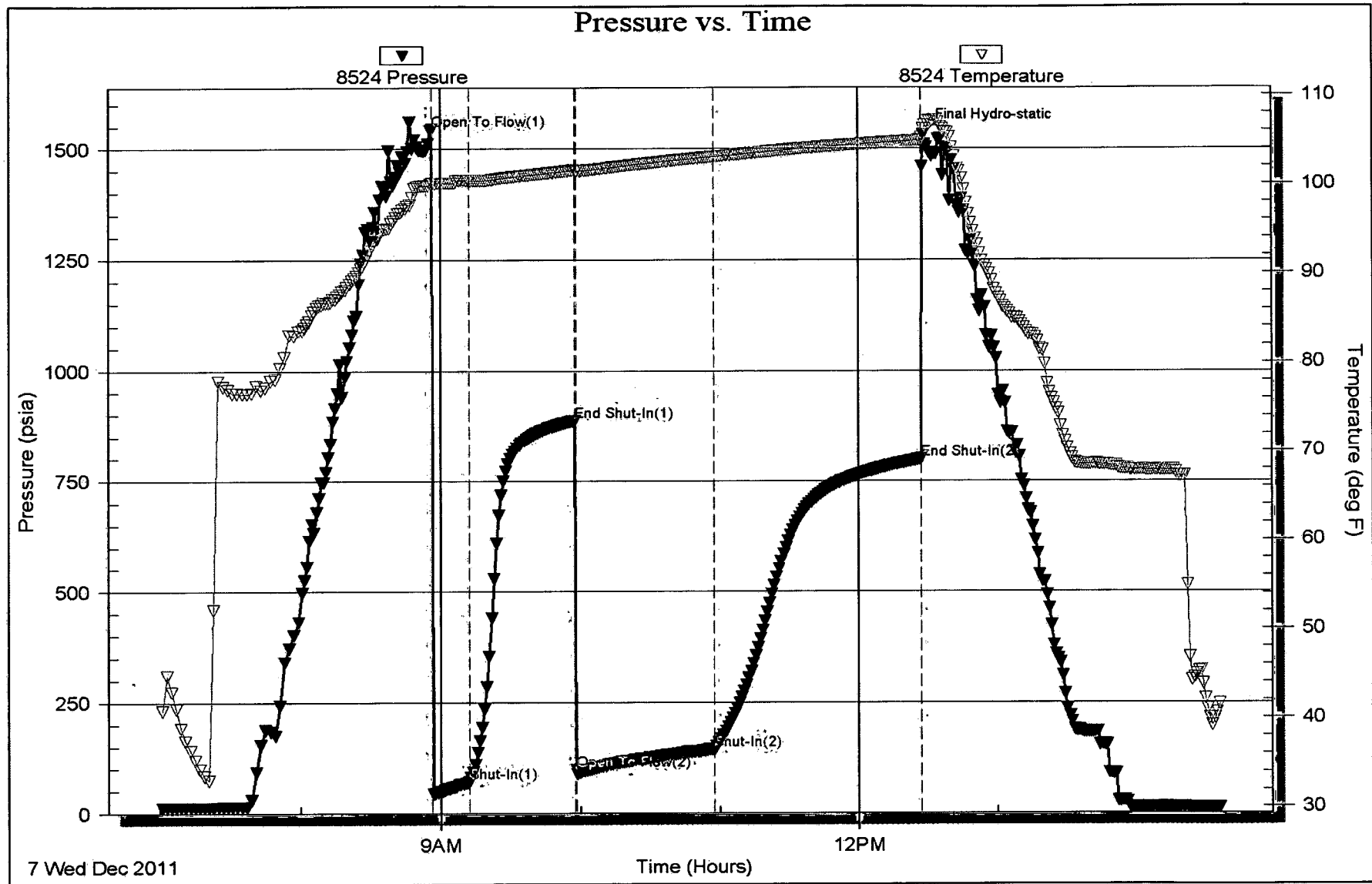
Num Gas Bombs: 0

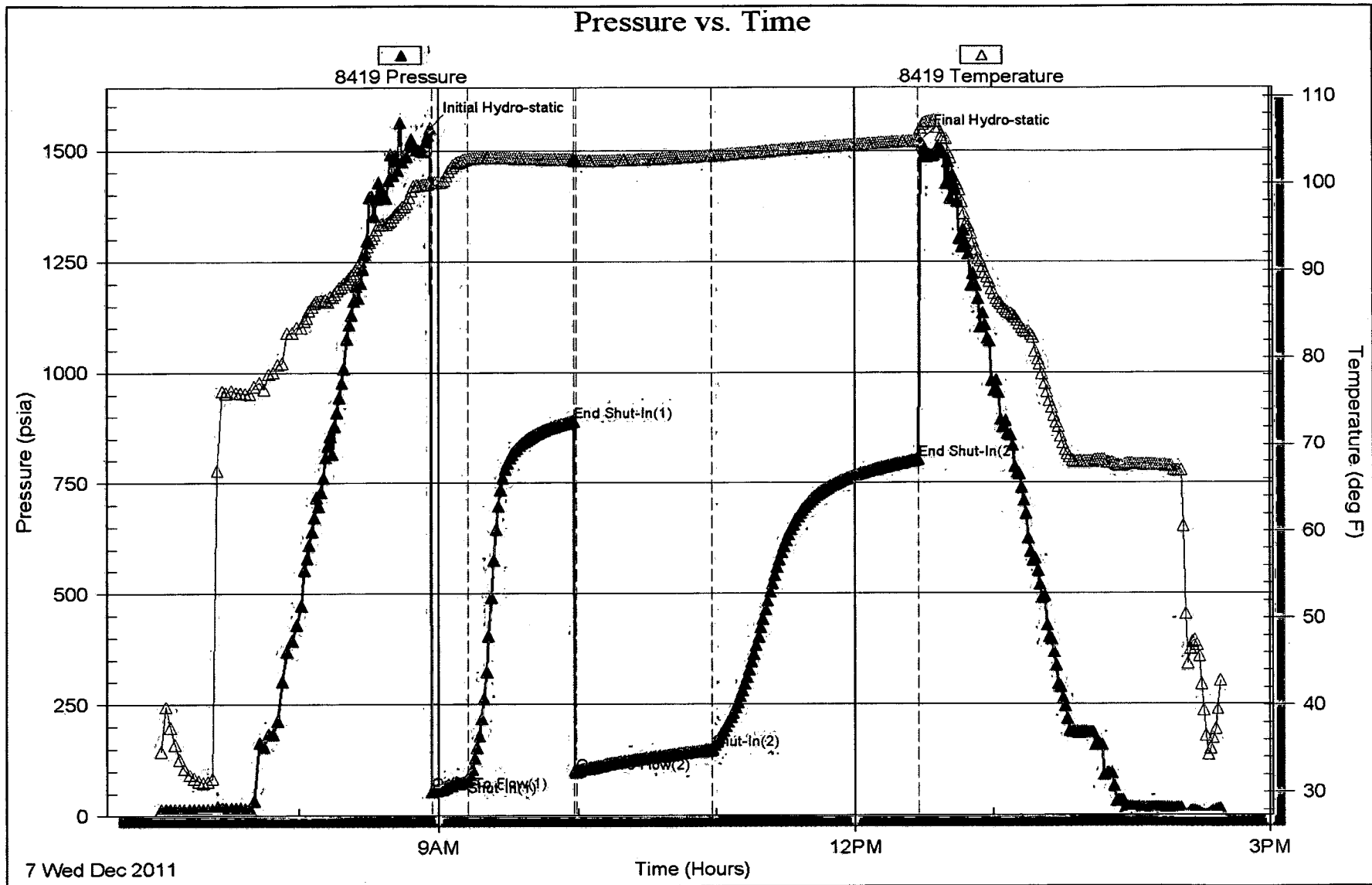
Serial #:

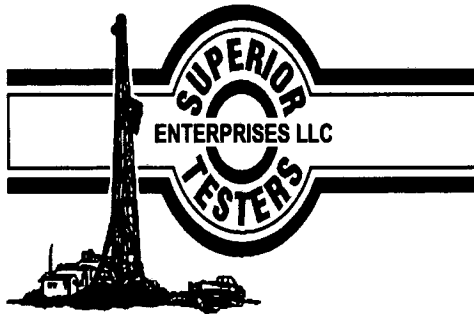
Laboratory Name:

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

Valhalla Exploration L.L.C. 2-17s-13w Barton Morgenstern #1-2 DST # 2 Arbuckle 2011.12.08



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

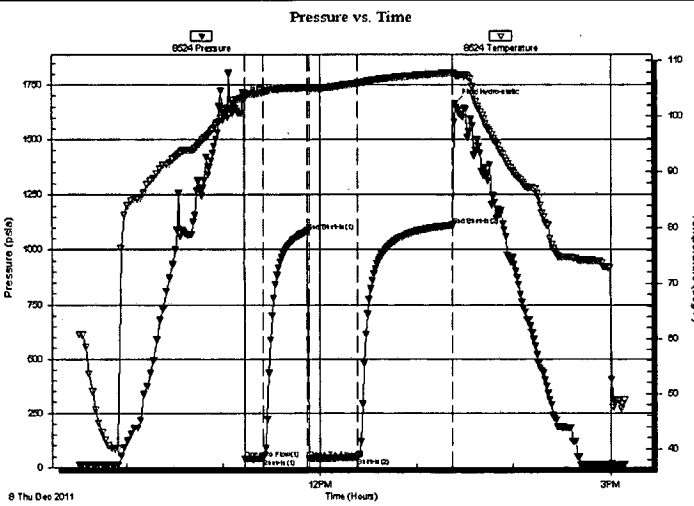
Test Start: 2011.12.08 @ 09:30:00

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 #: 8524 Outside
 Press@RunDepth: 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

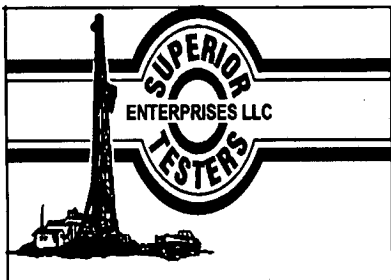
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1681.63	103.92	Initial Hydro-static
1	38.57	103.78	Open To Flow (1)
12	38.50	104.23	Shut-In(1)
40	1083.89	105.10	End Shut-In(1)
41	39.18	104.93	Open To Flow (2)
70	44.65	105.86	Shut-In(2)
130	1110.51	107.77	End Shut-In(2)
131	1665.25	107.39	Final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

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335-42

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

Reference Elevations: 1867.00 ft (KB)

1859.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8419

Inside

Press@RunDepth: 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

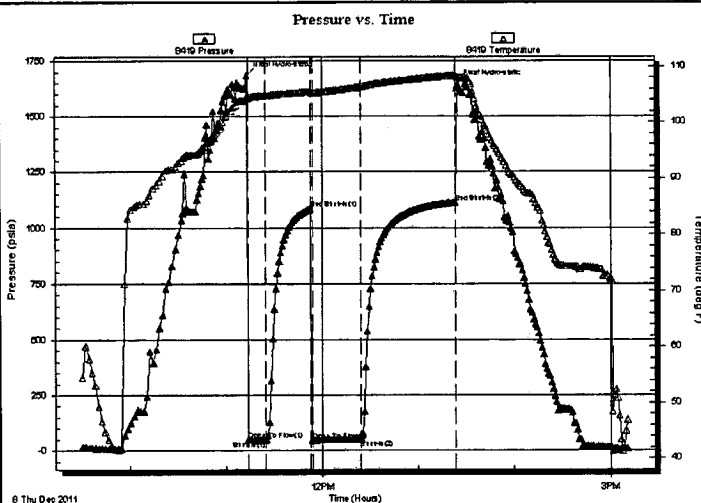
Time Off Btm: 2011.12.08 @ 13:25:00

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

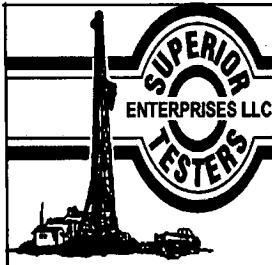
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1685.89	104.50	Initial Hydro-static
1	48.85	104.27	Open To Flow (1)
12	45.97	104.71	Shut-in(1)
40	1085.44	105.49	End Shut-in(1)
41	46.51	105.30	Open To Flow (2)
71	50.49	106.31	Shut-in(2)
130	1114.07	108.40	End Shut-in(2)
132	1644.26	108.08	Final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

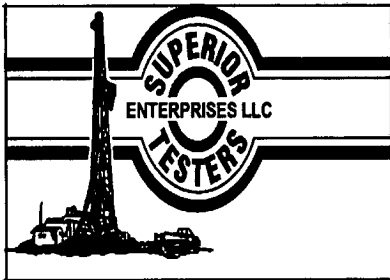
Test Start: 2011.12.08 @ 09:30:00

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
			Total Volume: - bbl	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:

Water Salinity: ppm

deg API

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

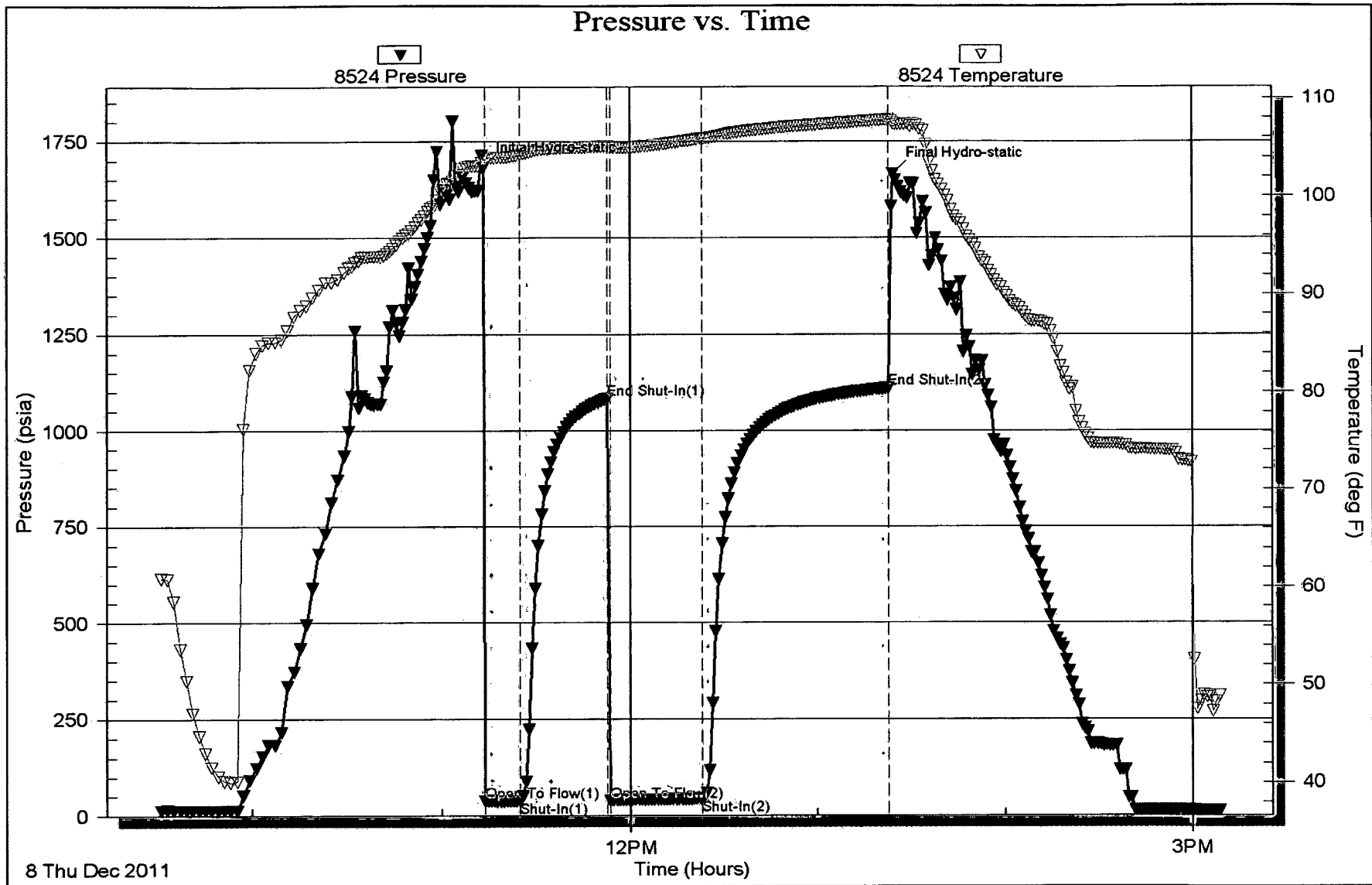
Num Gas Bombs: 0

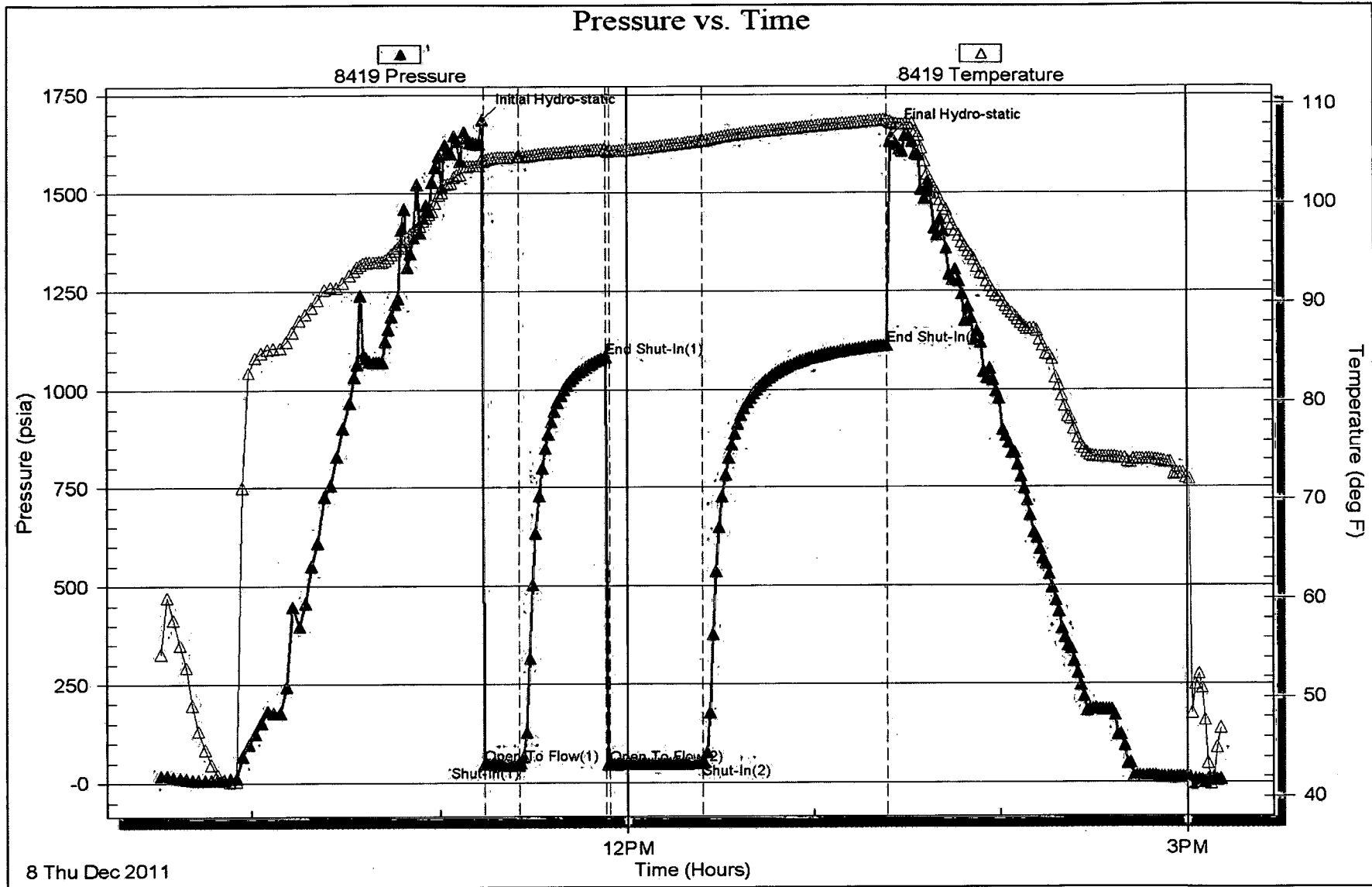
Serial #:

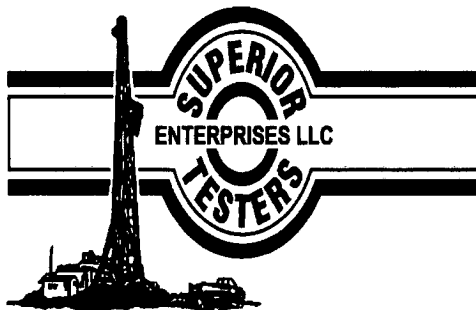
Laboratory Name:

Laboratory Location:

Recovery Comments:







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

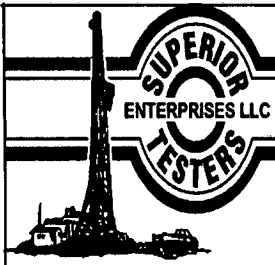
End Date: 2011.12.08 @ 00:00:00

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

Valhalla Exploration L.L.C. 2-17s-13w Barton Morgenstern #1-2 DST # 3 Arbuckle 2011.12.08



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)**

Total Depth: 3332.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1867.00 ft (KB)

1859.00 ft (CF)

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

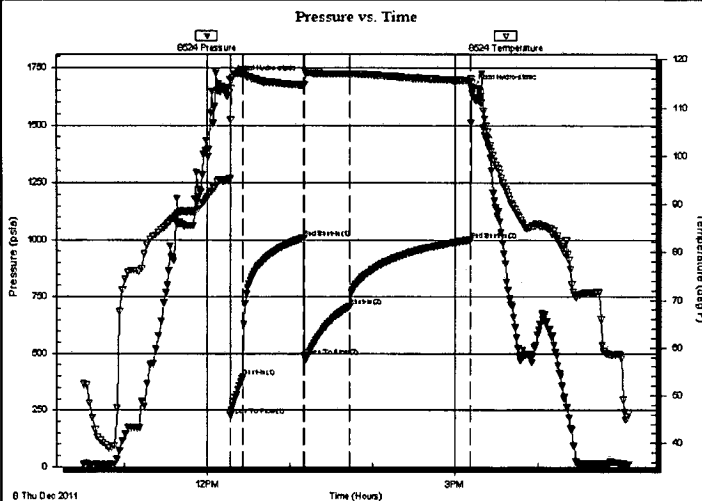
Start Time: 10:30:00

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

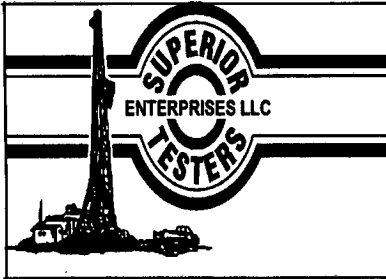
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1698.57	95.17	Initial Hydro-static
1	227.56	107.49	Open To Flow (1)
10	395.98	117.11	Shut-In(1)
54	1007.93	114.59	End Shut-In(1)
54	488.13	114.80	Open To Flow (2)
88	709.39	116.97	Shut-In(2)
175	998.62	115.60	End Shut-In(2)
176	1662.37	115.11	Final 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% Gas 30% 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.
 133 North Glendale
 Wichita, Kansas 67208
 ATTN: Adam Kennedy

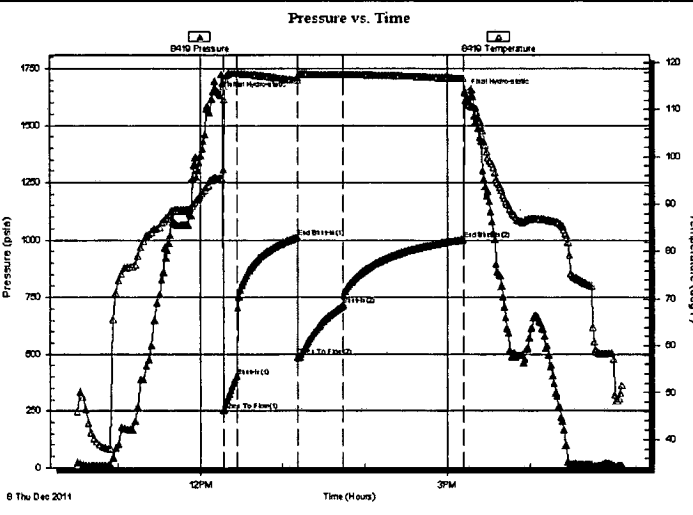
2-17s-13w Barton
Morgenstern #1-2
 Job Ticket: 18665 **DST#: 3**
 Test Start: 2011.12.08 @ 10:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3326.00 ft (KB) To 3332.00 ft (KB) (TVD)**
 Total Depth: 3332.00 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@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

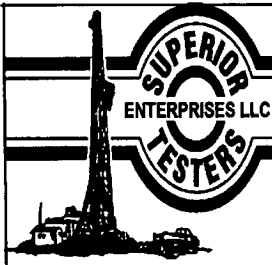
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1629.35	95.35	Initial Hydro-static
2	250.51	97.23	Open To Flow (1)
12	402.54	117.67	Shut-In(1)
56	1010.59	116.22	End Shut-In(1)
56	488.67	116.86	Open To Flow (2)
89	715.95	117.44	Shut-In(2)
177	1001.50	116.66	End Shut-In(2)
178	1644.89	113.86	Final 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%Gas 30%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

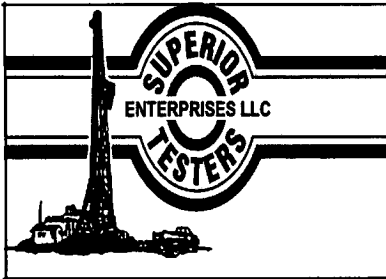
Test Start: 2011.12.08 @ 10:30:00

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:

