



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1202977
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

1202977

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Valhalla Exploration LLC
Well Name	Hullman 1-14
Doc ID	1202977

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Form	ACO1 - Well Completion
Operator	Valhalla Exploration LLC
Well Name	Hullman 1-14
Doc ID	1202977

Tops

Name	Top	Datum
HEEB	3249	-1352
BR LM	3382	-1485
LANS	3402	-1505
STARK	3581	-1684
BKC	3613	-1716
CONG	3678	-1781
VIOL	3696	-1799
SIMP	3739	-1842
ARB	3794	-1897



PAGE 1 of 1	CUST NO 1007761	INVOICE DATE 10/29/2013
INVOICE NUMBER 1718 - 91323504		

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

J LEASE NAME Hullman 1-14
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40656443	19843		Net - 30 days	11/28/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 10/25/2013 to 10/25/2013				
0040656443				
17184358AZ Cement-New Well Casing/Pi 10/25/2013				
Cement 8 5/8 Surface				
Common Cement	300.00	EA	8.80	2,640.00 T
Celloflake	150.00	EA	2.04	305.25 T
Calcium Chloride	846.00	EA	0.58	488.57 T
Cement Gel	564.00	EA	0.14	77.55 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	88.00	88.00
"Unit Mileage Chg (PU, cars one way)"	40.00	MI	2.34	93.50
Heavy Equipment Mileage	80.00	MI	3.85	308.00
"Proppant & Bulk Del. Chgs., per ton mil	564.00	EA	0.88	496.32
Depth Charge; 0-500'	1.00	EA	550.00	550.00
Blending & Mixing Service Charge	300.00	BAG	0.77	231.00
Plug Container Util. Chg.	1.00	EA	137.50	137.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,511.94
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	251.06
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,763.00
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

RECEIVED NOV 14 2013



PAGE 1 of 1	CUST NO 1007761	INVOICE DATE 11/05/2013
INVOICE NUMBER 1718 - 91329429		

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

J LEASE NAME Hullman 1-14
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40658852	19905		Net - 30 days	12/05/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 11/02/2013 to 11/02/2013				
0040658852				
171809393A Cement-New Well Casing/Pi 11/02/2013 Cement 5 1/2" Longstring				
50/50 POZ	125.00	EA	8.25	1,031.18 T
60/40 POZ	80.00	EA	9.00	719.95 T
Celloflake	32.00	EA	2.77	88.79 T
C-41P	27.00	EA	3.00	80.99 T
Calcium Chloride	210.00	EA	0.79	165.36 T
Cement Friction Reducer	32.00	EA	4.50	143.99 T
Gypsum	625.00	EA	0.56	951.54 T
FLA-322	84.00	EA	5.62	472.47 T
Mud Flush	500.00	EA	0.64	322.48 T
Cement Gel	210.00	EA	0.19	39.37 T
Gilsonite	625.00	EA	0.50	314.04 T
Claymax KCL Substitute	4.00	EA	26.25	104.99 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	299.98	299.98
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	269.98	269.98
"Turbolizer, 5 1/2" (Blue)"	8.00	EA	82.49	659.95
"5 1/2" Basket (Blue)"	1.00	EA	217.48	217.48
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.19	143.43
Heavy Equipment Mileage	90.00	MI	5.25	472.47
"Proppant & Bulk Del. Chgs., per ton mil	392.00	EA	1.20	470.37
Depth Charge; 3001-4000'	1.00	EA	1,619.89	1,619.89
Blending & Mixing Service Charge	205.00	BAG	1.05	215.23
Plug Container Util. Chg.	1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,522.66
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	274.21
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,796.87
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploratoin LLC.**

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

ATTN: Adam Nighswonger

Hullman 1-14

14-22s-13w-Stafford

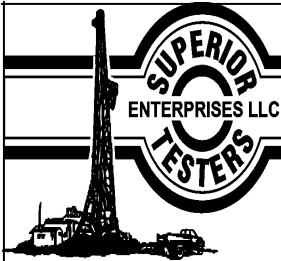
Start Date: 2013.10.29 @ 09:05:00

End Date: 2013.10.29 @ 16:38:30

Job Ticket #: 18528 DST #: 1

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

Printed: 2013.10.29 @ 14:55:32



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.
 8100 East 22nd St. N BLDG.
 1800-2 Wichita Kansas
 67226
 ATTN: Adam Nighswonger

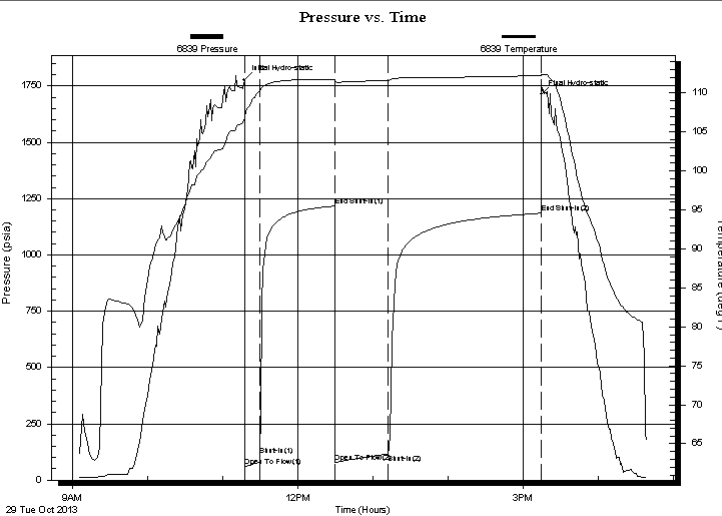
14-22s-13w-Stafford
Hullman 1-14
 Job Ticket: 18528 **DST#: 1**
 Test Start: 2013.10.29 @ 09:05:00

GENERAL INFORMATION:

Formation: **Lansin I-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:18:00
 Time Test Ended: 16:38:30
 Interval: **3534.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-36
 Reference Elevations: 1897.00 ft (KB)
 1889.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839 Outside
 Press @ RunDepth: 116.80 psia @ 3597.83 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.29 End Date: 2013.10.29 Last Calib.: 2013.10.29
 Start Time: 09:05:00 End Time: 16:38:30 Time On Btm: 2013.10.29 @ 11:17:30
 Time Off Btm: 2013.10.29 @ 15:14:30

TEST COMMENT: 1st Open 10 minutes Fair building blow built to 3 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Fair building blow built to 4.5 inches.
 2nd Shut in 120 minutes No blow back



PRESSURE SUMMARY

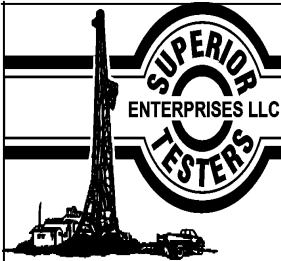
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1776.38	106.68	Initial Hydro-static
1	60.71	106.89	Open To Flow (1)
13	109.15	110.27	Shut-In(1)
72	1216.82	111.74	End Shut-In(1)
73	78.36	111.45	Open To Flow (2)
115	116.80	111.63	Shut-In(2)
237	1184.98	112.23	End Shut-In(2)
237	1712.47	112.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Water 100%	0.42
41.00	Muddy water -Mud 15% Water 85%	0.58
0.00	Chlorides 18,000 .2ohms @58degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18528

DST#: 1

Test Start: 2013.10.29 @ 09:05:00

GENERAL INFORMATION:

Formation: **Lansin I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:18:00

Time Test Ended: 16:38:30

Interval: 3534.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-36

Reference Elevations: 1897.00 ft (KB)

1889.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8524 Inside

Press @ RunDepth: 1188.88 psia @ 3596.83 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.29

End Date: 2013.10.29

Last Calib.: 2013.10.29

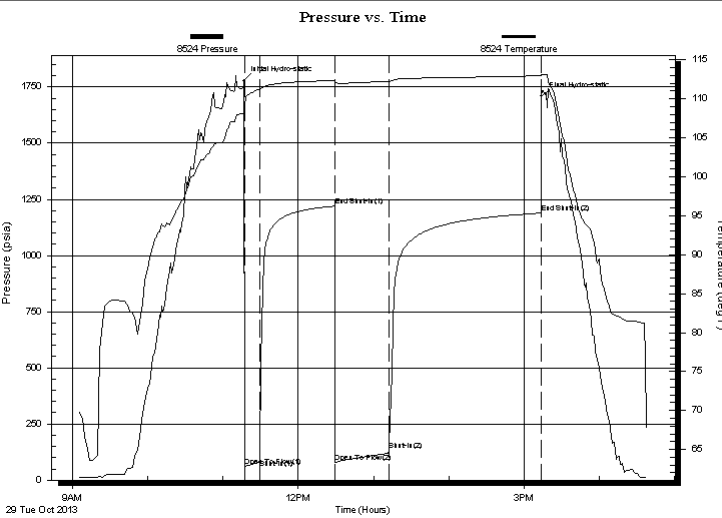
Start Time: 09:05:00

End Time: 16:38:00

Time On Btm: 2013.10.29 @ 11:17:00

Time Off Btm: 2013.10.29 @ 15:14:00

TEST COMMENT: 1st Open 10 minutes Fair building blow built to 3 inches into a 5 gallon bucket of water.
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair building blow built to 4.5 inches.
2nd Shut in 120 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1777.95	108.66	Initial Hydro-static
1	61.64	108.95	Open To Flow (1)
13	92.93	111.22	Shut-In(1)
72	1219.59	112.35	End Shut-In(1)
73	80.68	112.03	Open To Flow (2)
115	133.04	112.23	Shut-In(2)
237	1188.88	112.97	End Shut-In(2)
238	1707.97	113.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Water 100%	0.42
41.00	Muddy water -Mud 15% Water 85%	0.58
0.00	Chlorides 18,000 .2ohms @58degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18528

DST#: 1

Test Start: 2013.10.29 @ 09:05:00

Tool Information

Drill Pipe:	Length: 3543.00 ft	Diameter: 3.80 inches	Volume: 49.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 49.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3534.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.83 ft			
Tool Length:	86.83 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3519.00	
Hydraulic Tool	5.00			3524.00	
Packer	5.00			3529.00	20.00 Bottom Of Top Packer
Packer	5.00			3534.00	
Anchor	5.00			3539.00	
Change Over Sub	0.75			3539.75	
Drill Pipe	31.33			3571.08	
Change Over Sub	0.75			3571.83	
Anchor	24.00			3595.83	
Recorder	1.00	8524	Inside	3596.83	
Recorder	1.00	6839	Outside	3597.83	
Bull Plug	3.00			3600.83	66.83 Bottom Packers & Anchor

Total Tool Length: 86.83



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18528

DST#: 1

ATTN: Adam Nighswonger

Test Start: 2013.10.29 @ 09:05:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 7400.00 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
30.00	Water 100%	0.421
41.00	Muddy water -Mud 15% Water 85%	0.575
0.00	Chlorides 18,000 .2ohms @58degrees	0.000

Total Length: 71.00 ft Total Volume: 0.996 bbl

Num Fluid Samples: 0

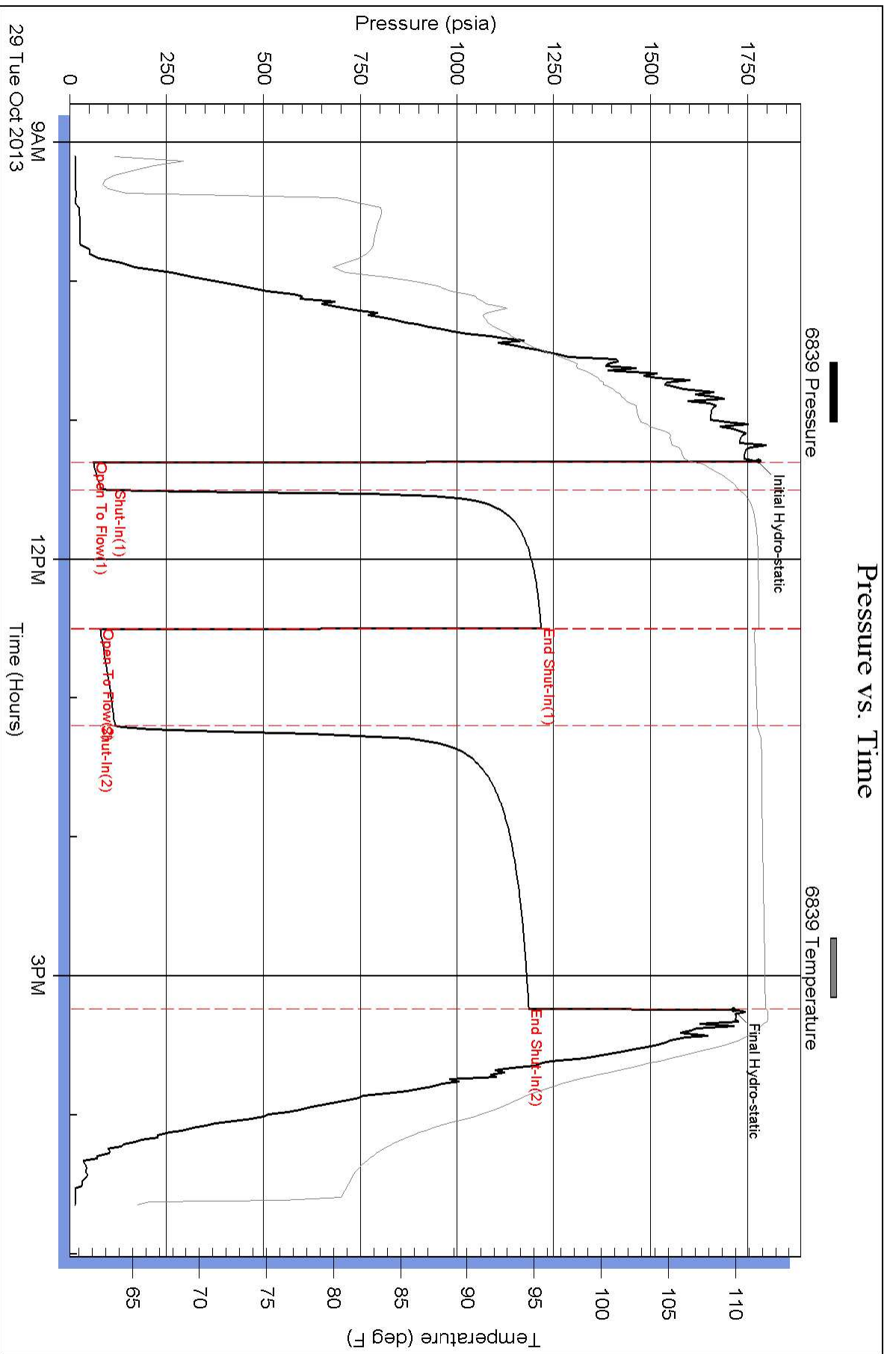
Num Gas Bombs: 0

Serial #:

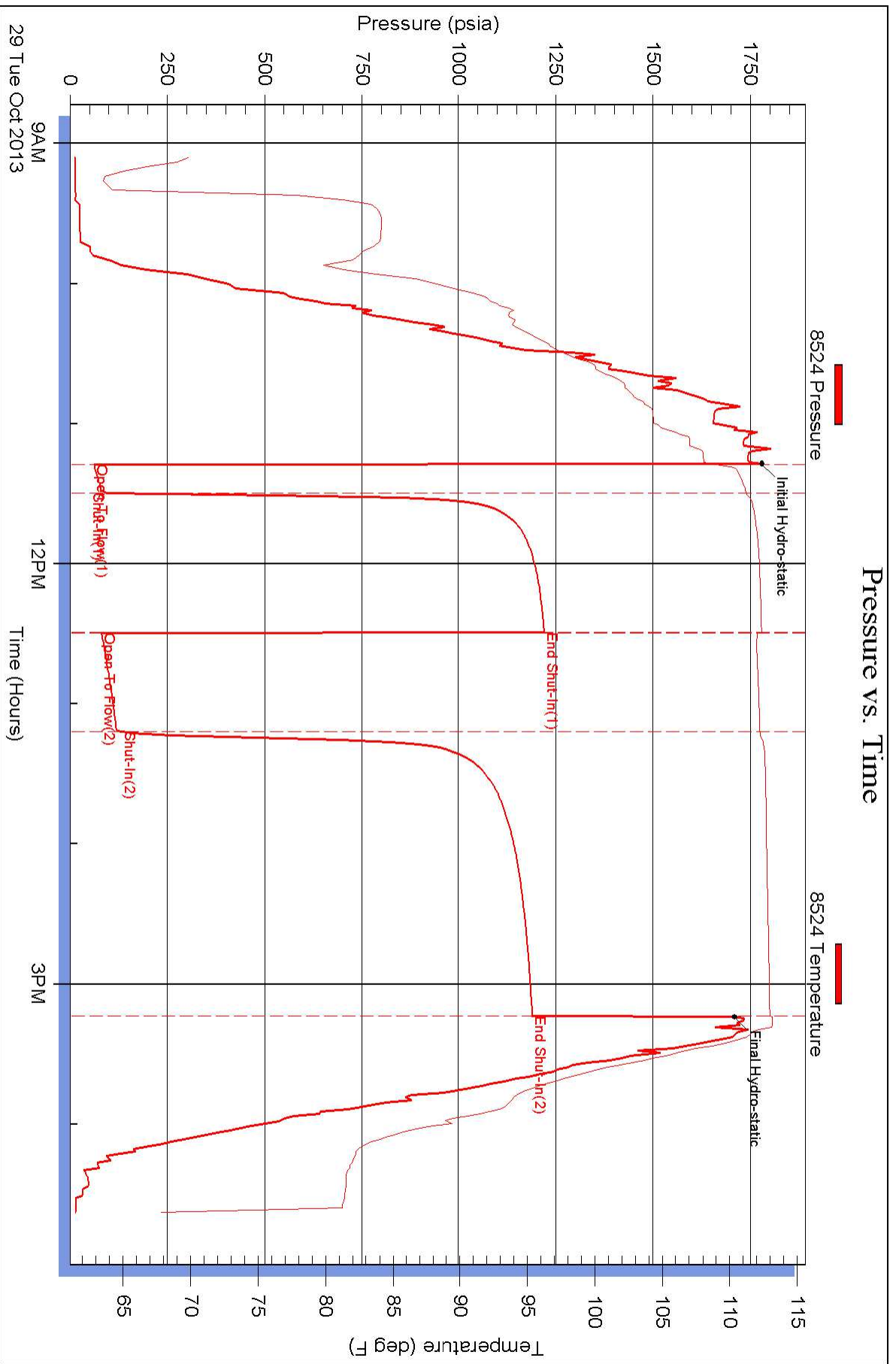
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploratoin LLC.**

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

ATTN: Adam Nighswonger

Hullman 1-14

14-22s-13w-Stafford

Start Date: 2013.10.30 @ 10:16:00

End Date: 2013.10.30 @ 16:34:00

Job Ticket #: 18529 DST #: 2

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

Printed: 2013.10.30 @ 14:57:52



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18529

DST#: 2

Test Start: 2013.10.30 @ 10:16:00

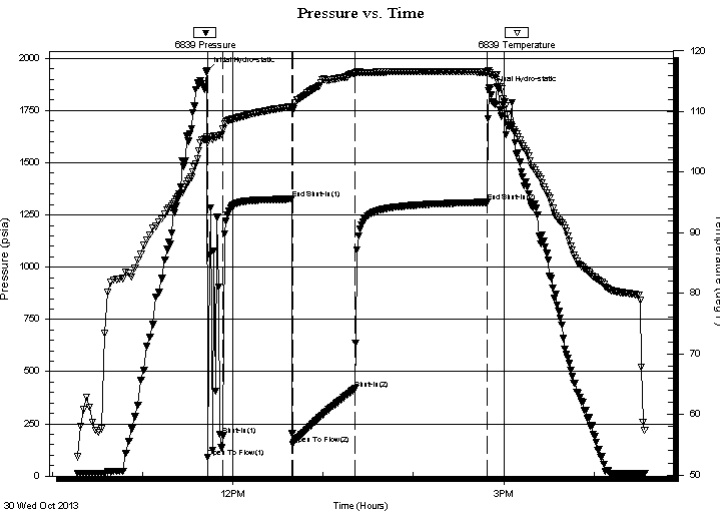
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:43:30
 Time Test Ended: 16:34:00
 Interval: **3730.00 ft (KB) To 3802.00 ft (KB) (TVD)**
 Total Depth: 3802.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-35
 Reference Elevations: 1897.00 ft (KB)
 1889.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839 Outside

Press @ RunDepth: 418.18 psia @ 3799.49 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.30 End Date: 2013.10.30 Last Calib.: 2013.10.30
 Start Time: 10:17:00 End Time: 16:34:00 Time On Btm: 2013.10.30 @ 11:43:00
 Time Off Btm: 2013.10.30 @ 14:50:00

TEST COMMENT: 1st Open 10 minutes Good building blow built to 9.5 inches
 1st Shut in 45 minutes No blow back
 2nd Open 45 minutes Strong building blow blew off bottom bucket in 7.5 minutes.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1938.33	105.77	Initial Hydro-static
1	89.70	104.84	Open To Flow (1)
11	193.53	107.07	Shut-In(1)
56	1325.90	110.81	End Shut-In(1)
57	153.35	110.50	Open To Flow (2)
98	418.18	116.32	Shut-In(2)
186	1311.34	116.53	End Shut-In(2)
187	1844.86	116.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
366.00	Very slighty oil spotted mud mud100%	5.13
427.00	Very slighty oil spotted w ater	5.99
0.00	Water 100%	0.00
0.00	Chlorides 29,000 .2ohms @56degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18529

DST#: 2

ATTN: Adam Nighswonger

Test Start: 2013.10.30 @ 10:16:00

Tool Information

Drill Pipe:	Length: 3737.00 ft	Diameter: 3.80 inches	Volume: 52.42 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 52.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3730.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.49 ft				
Tool Length:	92.49 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

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

Shut-In Tool	5.00			3715.00	
Hydraulic Tool	5.00			3720.00	
Packer	5.00			3725.00	20.00 Bottom Of Top Packer
Packer	5.00			3730.00	
Anchor	5.00			3735.00	
Change Over Sub	0.75			3735.75	
Drill Pipe	31.99			3767.74	
Change Over Sub	0.75			3768.49	
Anchor	29.00			3797.49	
Recorder	1.00	8524	Inside	3798.49	
Recorder	1.00	6839	Outside	3799.49	
Bull Plug	3.00			3802.49	72.49 Bottom Packers & Anchor

Total Tool Length: 92.49



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18529

DST#: 2

ATTN: Adam Nighswonger

Test Start: 2013.10.30 @ 10:16:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 8800.00 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
366.00	Very slighty oil spotted mud mud100%	5.134
427.00	Very slighty oil spotted w ater	5.990
0.00	Water 100%	0.000
0.00	Chlorides 29,000 .2ohms @56degrees	0.000

Total Length: 793.00 ft Total Volume: 11.124 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

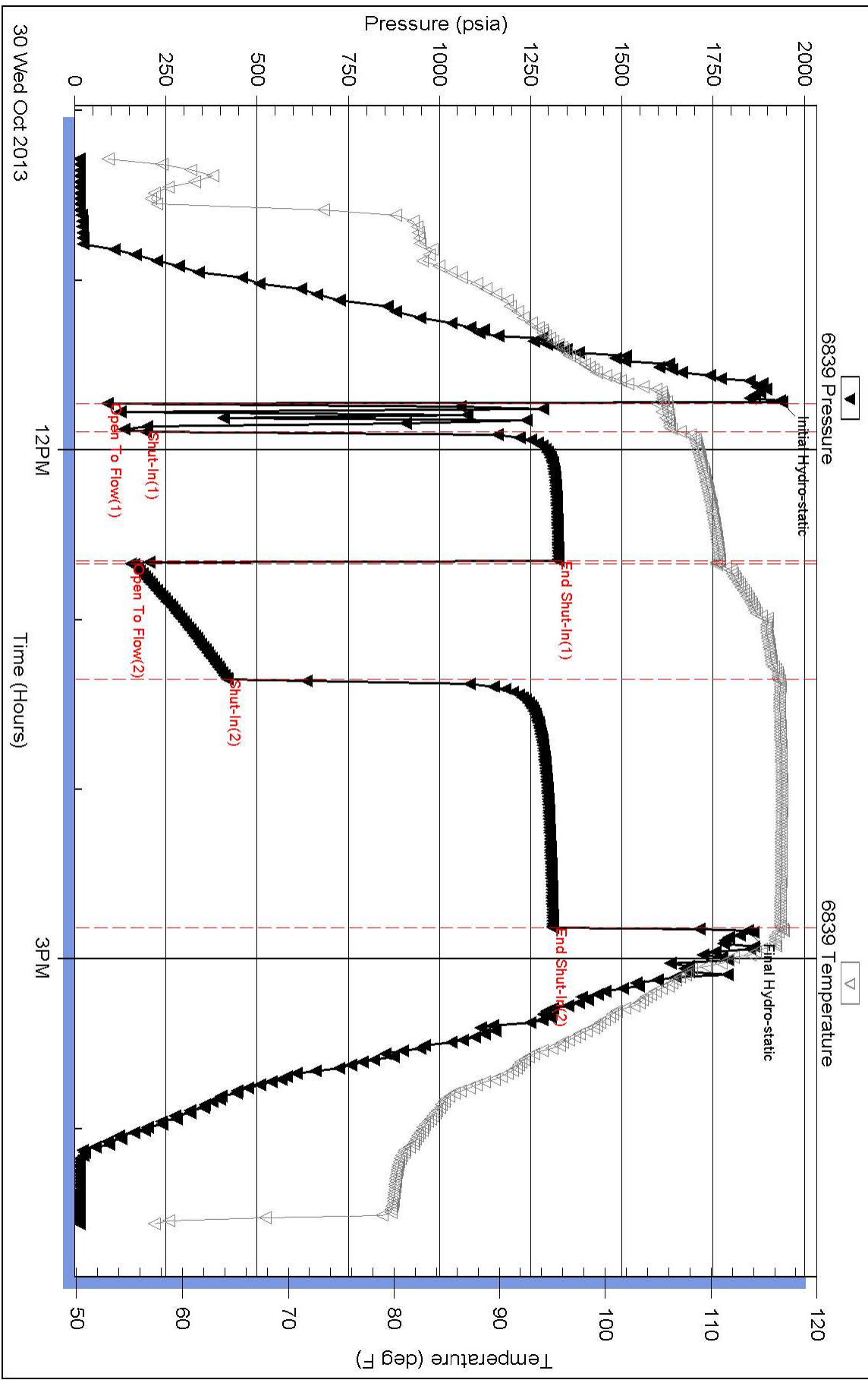
Serial #:

Laboratory Name:

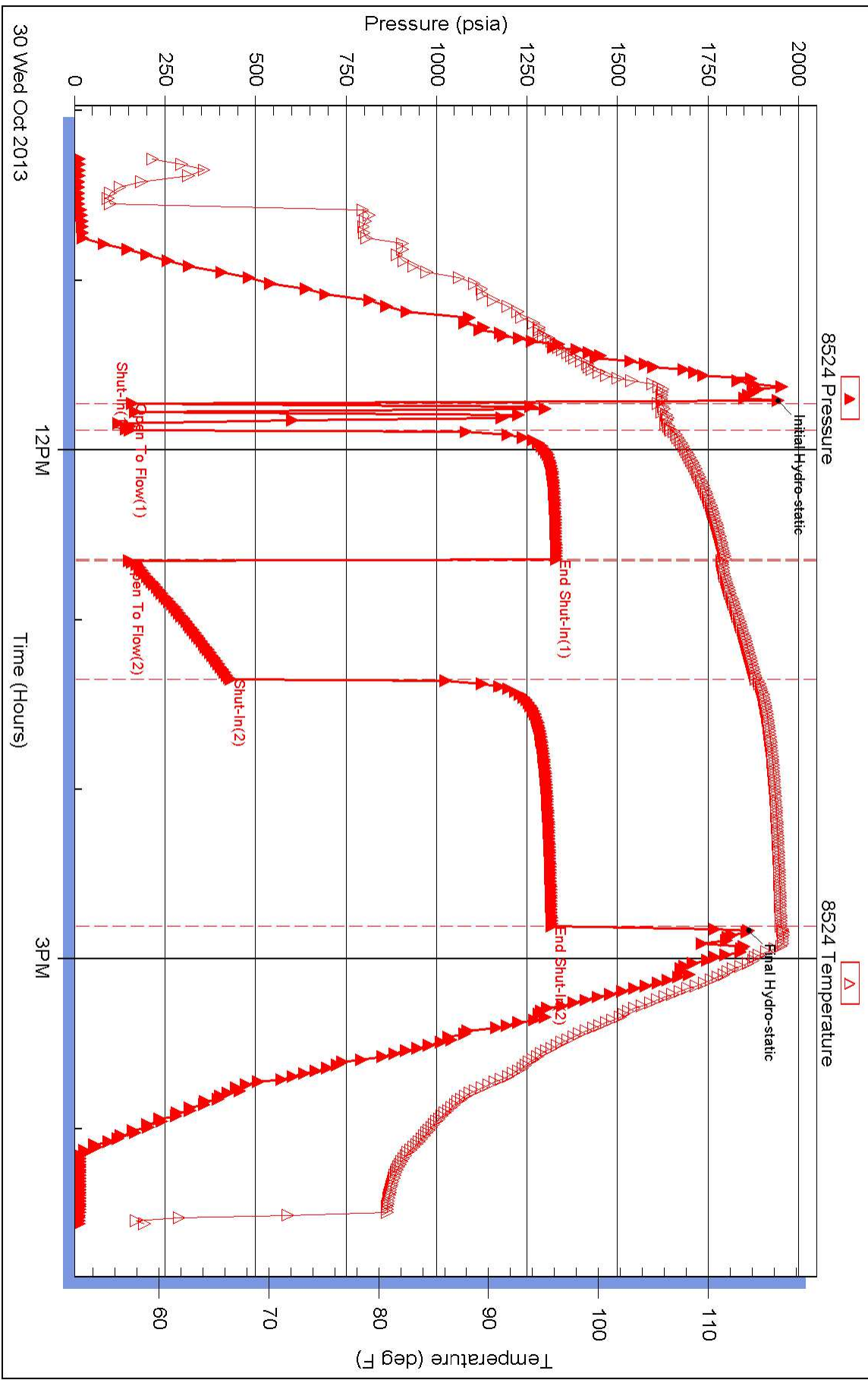
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploratoin LLC.**

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

ATTN: Adam Nighswonger

Hullman 1-14

14-22s-13w-Stafford

Start Date: 2013.10.30 @ 11:45:00

End Date: 2013.10.30 @ 18:48:00

Job Ticket #: 18530 DST #: 3

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

Printed: 2013.10.31 @ 05:13:41



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18530

DST#: 3

Test Start: 2013.10.30 @ 11:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:27:30

Time Test Ended: 18:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Interval: 3801.00 ft (KB) To 3808.00 ft (KB) (TVD)

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3808.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Inside

Press @ RunDepth: 144.92 psia @ 3804.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.30

End Date: 2013.10.30

Last Calib.: 2013.10.31

Start Time: 11:45:00

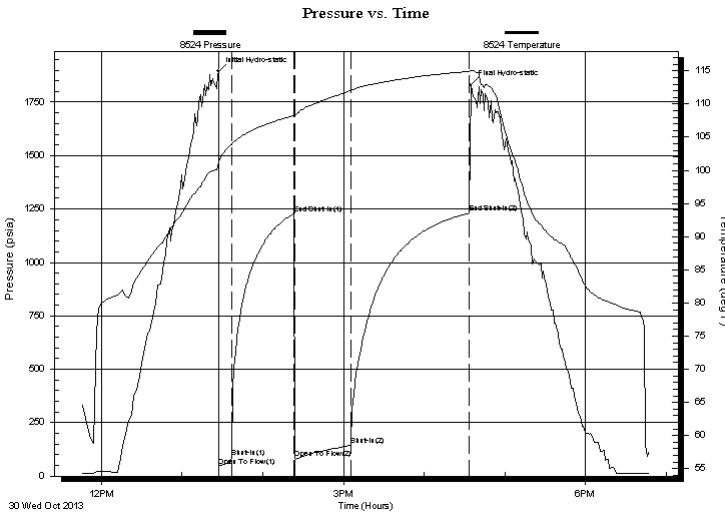
End Time: 18:48:00

Time On Btm: 2013.10.30 @ 13:27:00

Time Off Btm: 2013.10.30 @ 16:34:30

TEST COMMENT: 1st Open 10 minutes Good building blow blew off the bottom bucket in 6.5 minutes.
1st Shut in 45 minutes No blow back
2nd Open 45 minutes Good building blow built to bottom bucket 18 minutes.
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1894.95	101.17	Initial Hydro-static
1	44.24	101.28	Open To Flow (1)
10	88.53	103.91	Shut-In(1)
56	1227.46	108.25	End Shut-In(1)
57	83.92	108.07	Open To Flow (2)
99	144.92	112.03	Shut-In(2)
187	1230.91	114.92	End Shut-In(2)
188	1830.35	115.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
366.00	Clean Oil 100%	5.13
30.00	Oil cut mud Oil 97% Mud3%	0.42
0.00	Gravity of oil 30 Corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18530

DST#: 3

Test Start: 2013.10.30 @ 11:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:27:30

Time Test Ended: 18:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Interval: 3801.00 ft (KB) To 3808.00 ft (KB) (TVD)

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3808.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6839 Outside

Press @ RunDepth: 1225.27 psia @ 3805.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.30

End Date: 2013.10.30

Last Calib.: 2013.10.31

Start Time: 11:45:00

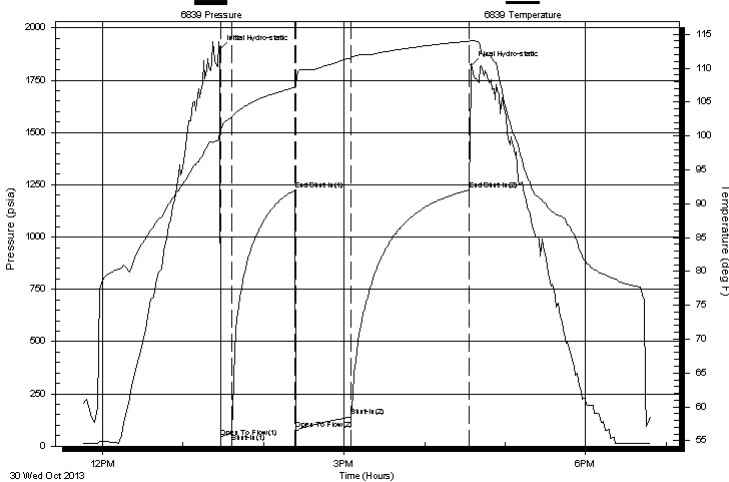
End Time: 18:49:00

Time On Btm: 2013.10.30 @ 13:27:30

Time Off Btm: 2013.10.30 @ 16:35:00

TEST COMMENT: 1st Open 10 minutes Good building blow blew off the bottom bucket in 6.5 minutes.
1st Shut in 45 minutes No blow back
2nd Open 45 minutes Good building blow built to bottom bucket 18 minutes.
2nd Shut in 90 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1897.54	100.74	Initial Hydro-static
1	41.73	100.66	Open To Flow (1)
9	63.10	102.89	Shut-In(1)
56	1224.01	107.16	End Shut-In(1)
57	79.51	107.65	Open To Flow (2)
98	140.34	111.55	Shut-In(2)
186	1225.27	113.98	End Shut-In(2)
188	1821.67	114.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
366.00	Clean Oil 100%	5.13
30.00	Oil cut mud Oil 97% Mud3%	0.42
0.00	Gravity of oil 30 Corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18530

DST#: 3

ATTN: Adam Nighswonger

Test Start: 2013.10.30 @ 11:45:00

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 53.19 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3801.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3778.00	
Hydraulic Tool	5.00			3783.00	
Jars	6.00			3789.00	
Safety Joint	2.00			3791.00	
Packer	5.00			3796.00	28.00 Bottom Of Top Packer
Packer	5.00			3801.00	
Anchor	2.00			3803.00	
Recorder	1.00	8524	Inside	3804.00	
Recorder	1.00	6839	Outside	3805.00	
Bull Plug	3.00			3808.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18530

DST#: 3

ATTN: Adam Nighswonger

Test Start: 2013.10.30 @ 11:45:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

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
366.00	Clean Oil 100%	5.134
30.00	Oil cut mud Oil 97% Mud3%	0.421
0.00	Gravity of oil 30 Corrected	0.000

Total Length: 396.00 ft Total Volume: 5.555 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

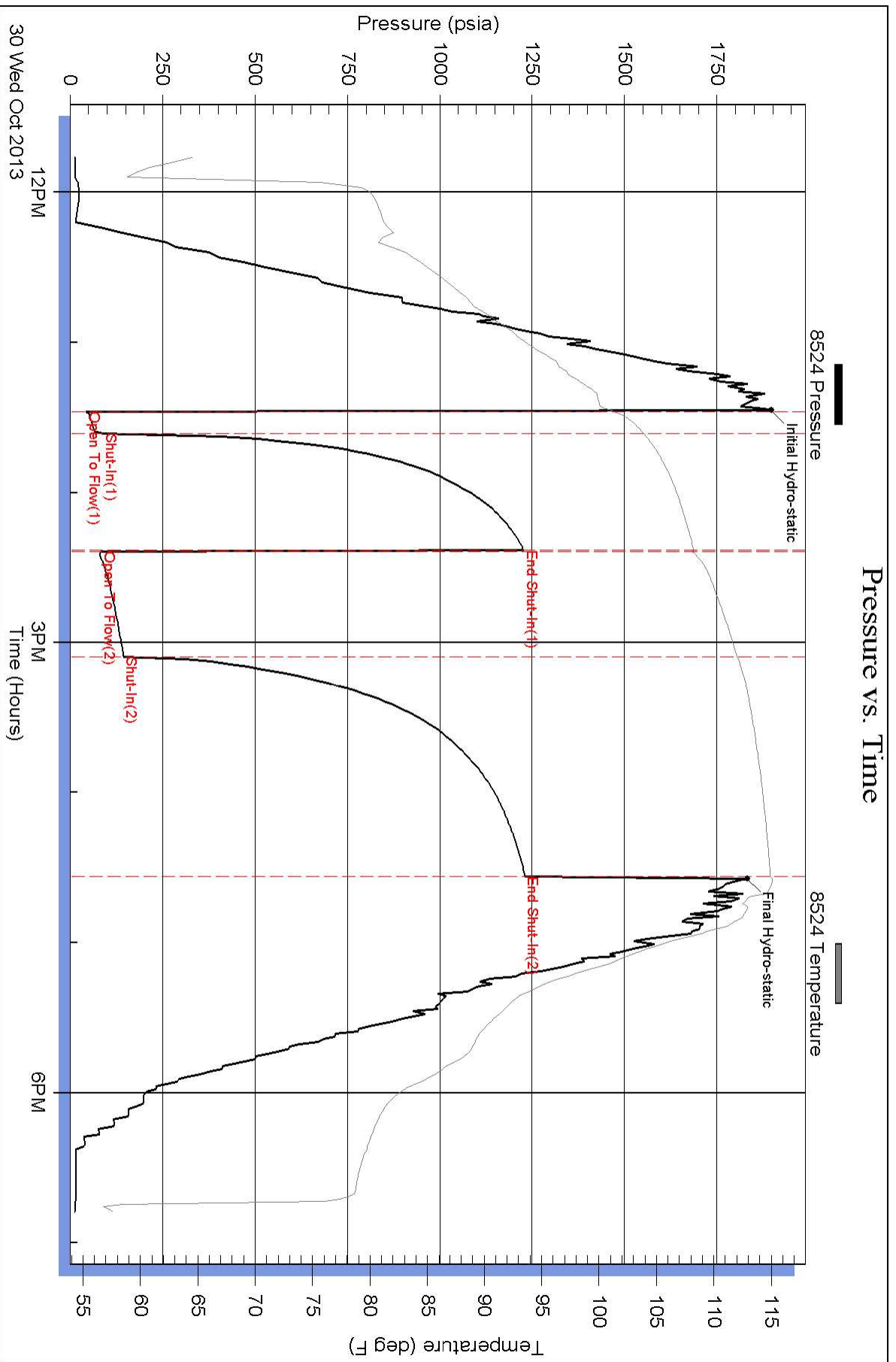
Serial #:

Laboratory Name:

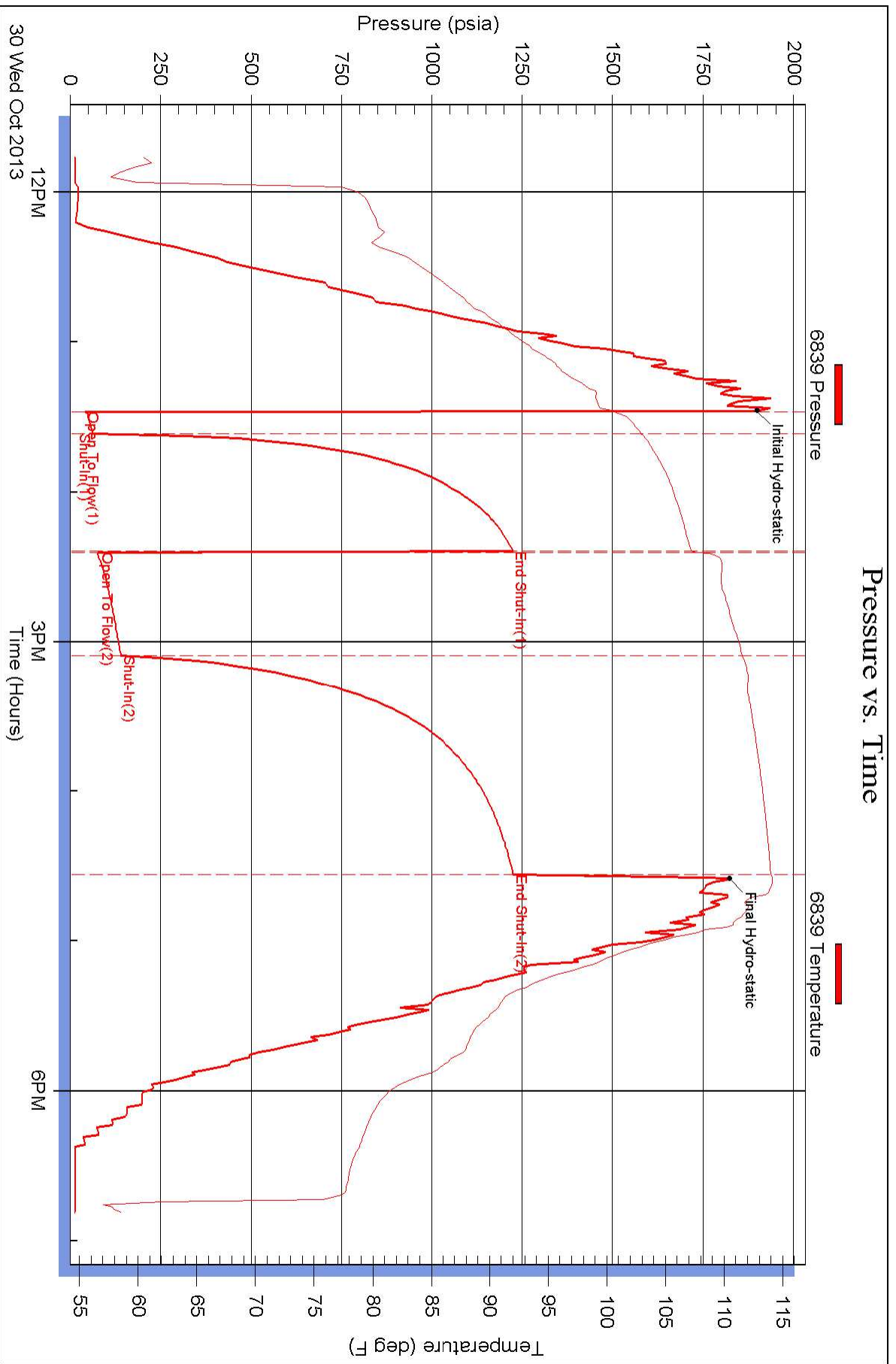
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploratoin LLC.**

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

ATTN: Adam Nighswonger

Hullman 1-14

14-22s-13w-Stafford

Start Date: 2013.10.31 @ 02:27:00

End Date: 2013.10.31 @ 08:26:00

Job Ticket #: 18531 DST #: 4

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

Printed: 2013.10.31 @ 18:40:53



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.
 8100 East 22nd St. N BLDG.
 1800-2 Wichita Kansas
 67226
 ATTN: Adam Nighswonger

14-22s-13w-Stafford
Hullman 1-14
 Job Ticket: 18531 **DST#: 4**
 Test Start: 2013.10.31 @ 02:27:00

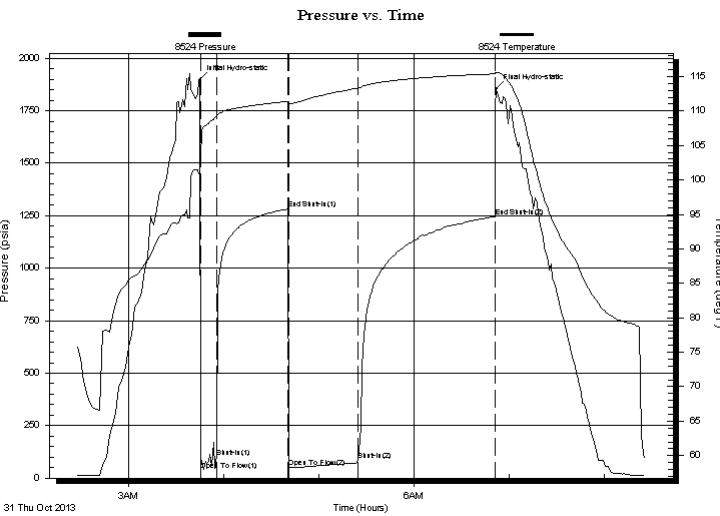
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:46:00
 Time Test Ended: 08:26:00
Interval: 3808.00 ft (KB) To 3816.00 ft (KB) (TVD)
 Total Depth: 3816.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-35
 Reference Elevations: 1897.00 ft (KB)
 1889.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524

Press @ RunDepth: 1244.04 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.31 End Date: 2013.10.31 Last Calib.: 2013.10.31
 Start Time: 02:27:00 End Time: 08:26:00 Time On Btm: 2013.10.31 @ 03:45:00
 Time Off Btm: 2013.10.31 @ 06:52:00

TEST COMMENT: 1st Open 10 minutes Fair building blow reached 2 inches into a 5 gallon bucket of water.
 1st Shut in 45 minutes No blow back
 2nd Open 45 minutes Fair building blow built ot 2.5 inches then died back off to 1 inch.
 2nd Shut in 90 minutes No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1897.40	101.33	Initial Hydro-static
1	36.09	102.97	Open To Flow (1)
11	101.49	109.20	Shut-In(1)
56	1281.74	111.39	End Shut-In(1)
56	49.39	111.10	Open To Flow (2)
100	84.64	113.31	Shut-In(2)
186	1244.04	115.40	End Shut-In(2)
187	1853.97	115.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Clean oil 100%	0.84
60.00	Oil cut mud Oil 90% Mud 10%	0.84
0.00	Gravity of oil 29 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18531

DST#: 4

ATTN: Adam Nighswonger

Test Start: 2013.10.31 @ 02:27:00

Tool Information

Drill Pipe:	Length: 3797.00 ft	Diameter: 3.80 inches	Volume: 53.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 53.26 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3808.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3785.00	
Hydraulic Tool	5.00			3790.00	
Jars	6.00			3796.00	
Safety Joint	2.00			3798.00	
Packer	5.00			3803.00	28.00 Bottom Of Top Packer
Packer	5.00			3808.00	
Anchor	3.00			3811.00	
Recorder	1.00	8524	Inside	3812.00	
Recorder	1.00	6839	Outside	3813.00	
Bull Plug	3.00			3816.00	8.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18531

DST#: 4

ATTN: Adam Nighswonger

Test Start: 2013.10.31 @ 02:27:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 12800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Clean oil 100%	0.842
60.00	Oil cut mud Oil 90% Mud 10%	0.842
0.00	Gravity of oil 29 corrected	0.000

Total Length: 120.00 ft

Total Volume: 1.684 bbl

Num Fluid Samples: 0

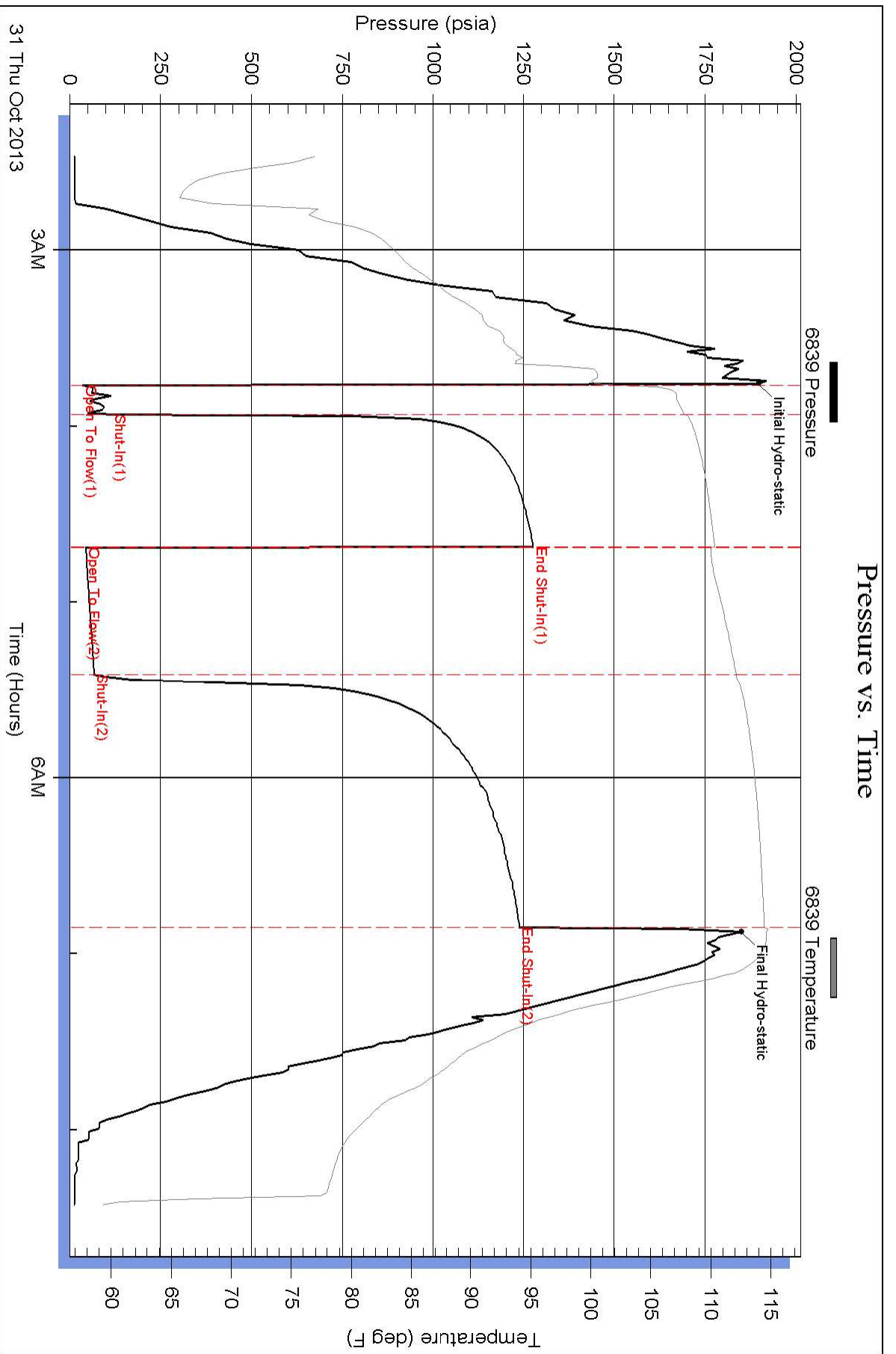
Num Gas Bombs: 0

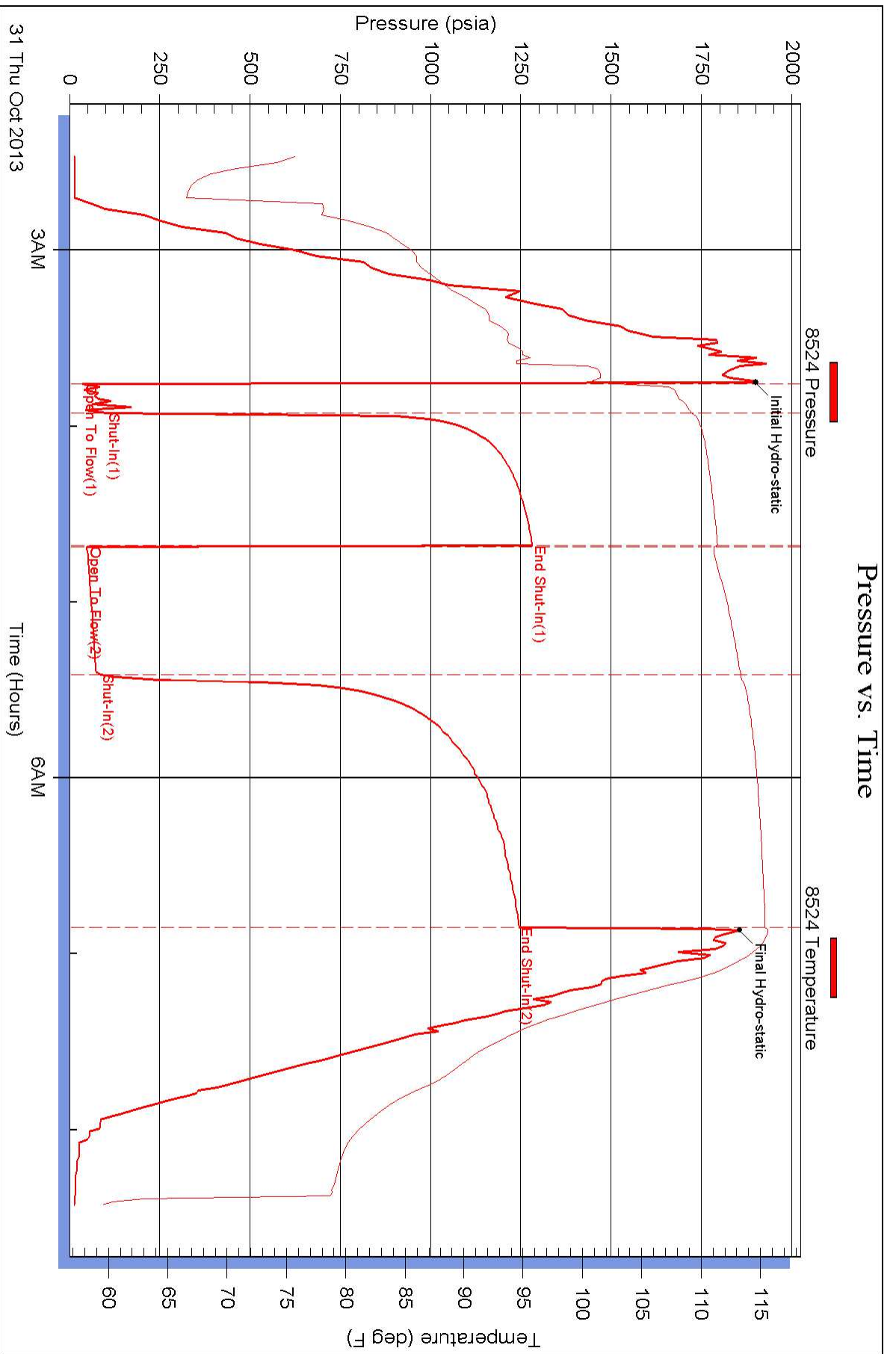
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploratoin LLC.**

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

ATTN: Adam Nighswonger

Hullman 1-14

14-22s-13w-Stafford

Start Date: 2013.11.01 @ 03:55:00

End Date: 2013.11.01 @ 10:50:30

Job Ticket #: 18532 DST #: 5

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

Printed: 2013.11.01 @ 09:23:39



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18532

DST#: 5

Test Start: 2013.11.01 @ 03:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:53:30

Time Test Ended: 10:50:30

Interval: 3816.00 ft (KB) To 3824.00 ft (KB) (TVD)

Total Depth: 3824.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Reference Elevations: 1897.00 ft (KB)

1889.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6839 Outside

Press @ RunDepth: 112.46 psia @ 3821.00 ft (KB)

Start Date: 2013.11.01

End Date: 2013.11.01

Start Time: 03:55:00

End Time: 10:50:30

Capacity: 5000.00 psia

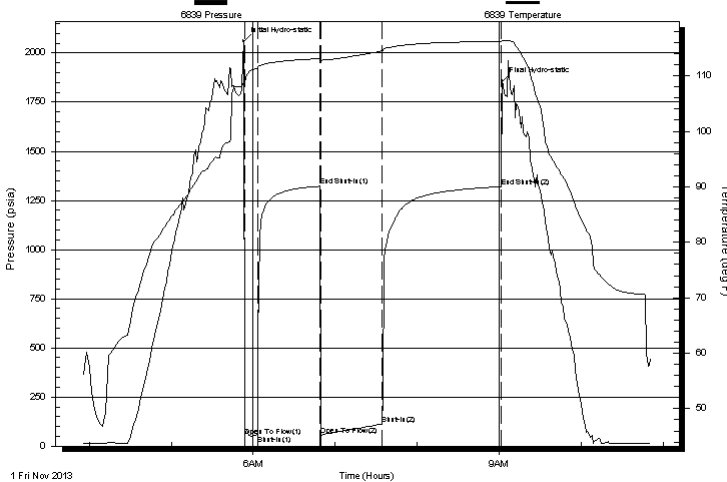
Last Calib.: 2013.11.01

Time On Btm: 2013.11.01 @ 05:53:00

Time Off Btm: 2013.11.01 @ 09:02:00

TEST COMMENT: 1st Open 10 minutes Weak blow built to 1.5 inches
1st Shut in 45 minutes No blow back
2nd Open 45 minutes Weak 1/2 inch blow through out
2nd Shut in 90 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2060.29	108.65	Initial Hydro-static
1	51.91	108.58	Open To Flow (1)
10	56.66	111.33	Shut-In(1)
56	1322.51	113.09	End Shut-In(1)
57	56.66	112.74	Open To Flow (2)
101	112.46	114.48	Shut-In(2)
189	1320.04	116.22	End Shut-In(2)
189	1856.23	116.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Clean oil 100%	1.26
123.00	Oil cut muddy water	1.73
0.00	Oil 55% Mud 40% Water 5%	0.00
0.00	Gravity of oil 30 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226
ATTN: Adam Nighswonger

Hullman 1-14

Job Ticket: 18532

DST#: 5

Test Start: 2013.11.01 @ 03:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:53:30

Time Test Ended: 10:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Interval: 3816.00 ft (KB) To 3824.00 ft (KB) (TVD)

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3824.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Inside

Press @ RunDepth: 1326.03 psia @ 3820.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.01

End Date: 2013.11.01

Last Calib.: 2013.11.01

Start Time: 03:55:00

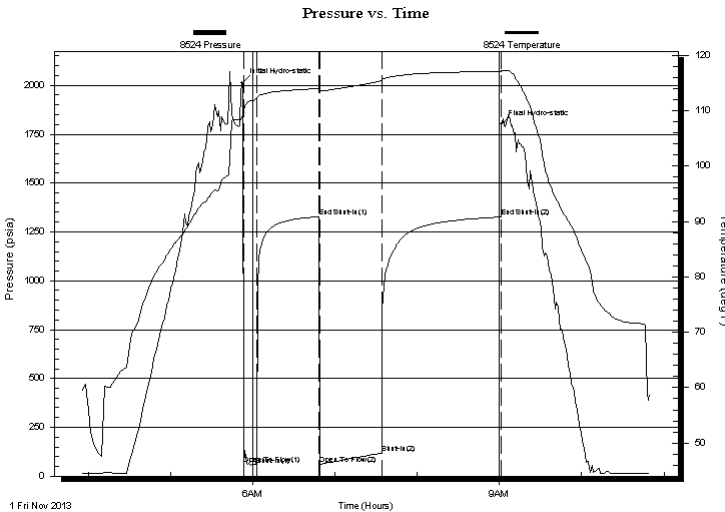
End Time: 10:50:00

Time On Btm: 2013.11.01 @ 05:52:30

Time Off Btm: 2013.11.01 @ 09:01:30

TEST COMMENT: 1st Open 10 minutes Weak blow built to 1.5 inches
1st Shut in 45 minutes No blow back
2nd Open 45 minutes Weak 1/2 inch blow through out
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2011.73	109.32	Initial Hydro-static
1	60.63	109.88	Open To Flow (1)
11	100.59	112.19	Shut-In(1)
56	1327.91	113.97	End Shut-In(1)
57	63.03	113.49	Open To Flow (2)
102	118.12	115.36	Shut-In(2)
189	1326.03	117.09	End Shut-In(2)
189	1799.31	117.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Clean oil 100%	1.26
123.00	Oil cut muddy water	1.73
0.00	Oil 55% Mud 40% Water 5%	0.00
0.00	Gravity of oil 30 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18532

DST#: 5

ATTN: Adam Nighswonger

Test Start: 2013.11.01 @ 03:55:00

Tool Information

Drill Pipe:	Length: 3816.00 ft	Diameter: 3.80 inches	Volume: 53.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.53 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3816.00 ft			Final 5700.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3793.00	
Hydraulic Tool	5.00			3798.00	
Jars	6.00			3804.00	
Safety Joint	2.00			3806.00	
Packer	5.00			3811.00	28.00 Bottom Of Top Packer
Packer	5.00			3816.00	
Anchor	3.00			3819.00	
Recorder	1.00	8524	Inside	3820.00	
Recorder	1.00	6839	Outside	3821.00	
Bull Plug	3.00			3824.00	8.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploratoion LLC.

14-22s-13w-Stafford

8100 East 22nd St. N BLDG.
1800-2 Wichita Kansas
67226

Hullman 1-14

Job Ticket: 18532

DST#: 5

ATTN: Adam Nighswonger

Test Start: 2013.11.01 @ 03:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 72.00 sec/qt
Water Loss: 11.60 in³
Resistivity: ohm.m
Salinity: 12800.00 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
90.00	Clean oil 100%	1.262
123.00	Oil cut muddy w ater	1.725
0.00	Oil 55% Mud 40% Water 5%	0.000
0.00	Gravity of oil 30 corrected	0.000

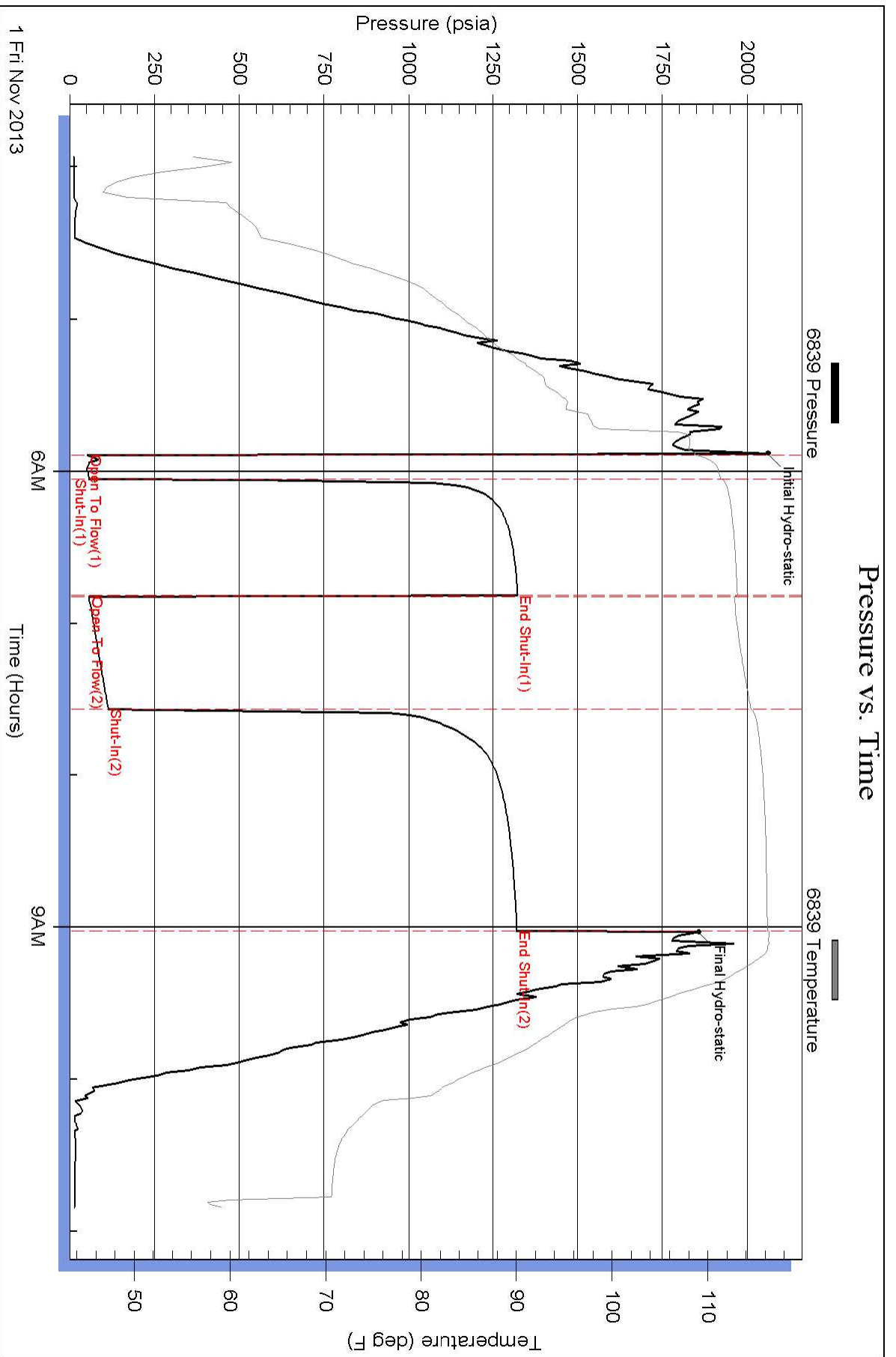
Total Length: 213.00 ft Total Volume: 2.987 bbl

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

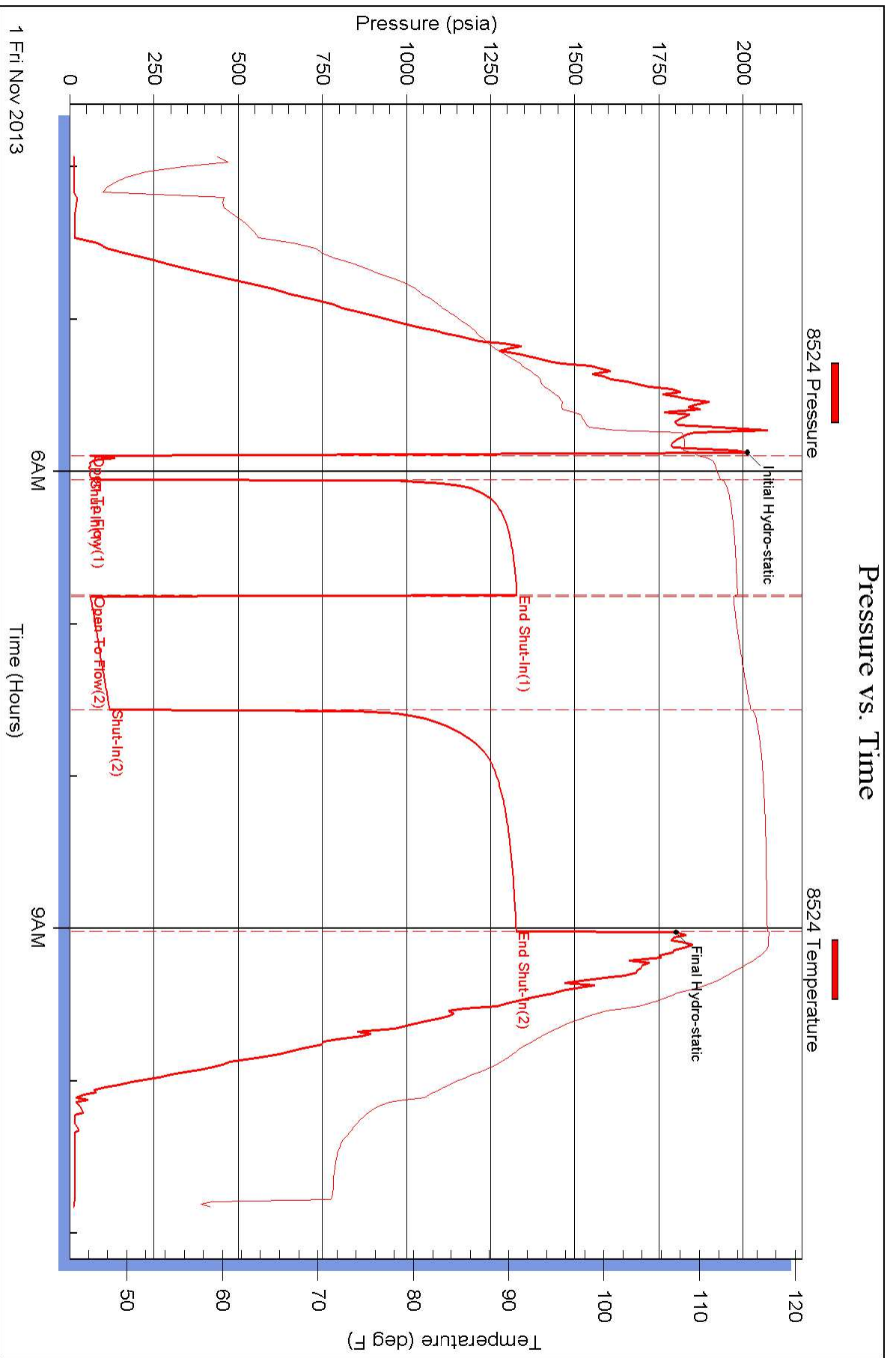
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

May 12, 2014

Adam Kennedy
Valhalla Exploration LLC
8100 E 22ND ST N BLDG 1800-2
WICHITA, KS 67208-4022

Re: ACO-1
API 15-185-23837-00-00
Hullman 1-14
SW/4 Sec.14-22S-13W
Stafford County, Kansas

Dear Adam Kennedy:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/24/2013 and the ACO-1 was received on May 05, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

Valhalla Exploration

RIG No. 6

Well Name: Hullman #1-14
 Location: 1175' FSL & 650' FWL
 Section: 14-22S-13W
 County: Stafford
 API: 15-185-23837-00-00

Elevation: GL 1889'
 KB 1897'
 Est. TD: 3900'

Rig No. 6 (Pusher Wes Pfaff) 620 566-7094
 Rig No. 6 (Doghouse) 620 566-7056
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 6 joints of new 23#, 8 5/8" casing, Tally @ 250', Set @ 260', used 300 sacks of Common, 2% gel, 3% cc, 1/2 celflake, cement circulated, by Basic (Ticket #04358), plug down @ 2:15 am on 10.25.13.

Production Info: Ran 95 joints of new 15.5#, 5 1/2" casing, Tally @ 3941', Set @ 3948', used 175 sacks total, 50 sacks of 60/40 Scavenger, 125 sacks of Econo Bond, cemented, by Basic (Ticket #9393), job complete @ 2:45 pm on 11.02.13.

Rotary Total Depth: 3949'
 Log Total Depth: 3948' Geologist: Adam Kennedy

7:00 A.M. Depth: 3949' 7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time: 10/24/2013 @ 7:45 PM	10/24/13 Day 1	10/25/13 Day 2	10/26/13 Day 3	10/27/13 Day 4	10/28/13 Day 5	10/29/13 Day 6	10/30/13 Day 7	10/31/13 Day 8	11/01/13 Day 9	11/02/13 Day 10	Total
Total Depth (7:00am)	0	260	1323	2425	3255	3600	3802	3808	3824	3949	
Daily Progress	260	1063	1102	830	345	202	6	16	125		3949
Ft. Per Hr.	0.00	26.00	67.85	115.48	255.29	400.00	15208.00	7616.00	899.76	#DIV/0!	49.36
Current Operation (7:00am)	Rig Up	WOC	Drilling	Drilling	Drilling	TOWB	CFS	TIWB	DST #5	LDDP	
Formation	Surface	Surface	Sand / Shale	Shale	Topeka	Lansing / KC	Kansas City	Arbuckle	Arbuckle	Arbuckle	
Fuel Used	132.17	226.75	438.13	430.68	409.19	273.97	179.85	228.16	137.42	136.95	2593.25
Survey (degree & depth)	3/4" @ 260'				3/4" @ 3600'				1" @ 3949'		
Mud Cost	\$0.00	\$0.00	\$5,406.00	\$0.00	\$887.60	\$1,666.45	\$53.85	-\$121.90	\$780.10	\$0.00	\$8,672.10
Weight (# / Gal)		9.1	9.8	8.9	9.1	9.3	9.3	9.1	9.0		
Vis (Funnel)		28	28	51	59	53	60	75	53		
Water Loss (cc)					8.0	8.0	8.8	11.6	20.4		
Bit #1											
Bit Make / Type	JZ Tooth ReTip										
Bit Size	12 1/4										
Bit Hours	2.75										2.75
Bit #2											
Bit Make / Type		JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q	
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	
Bit Hours		10.00	19.50	21.00	12.75	9.00	0.25	0.50	4.25		77.25
Bit Cumulative Hours	2.75	10.00	19.50	21.00	12.75	9.00	0.25	0.50	4.25	0.00	80.00
Weight on Bit (WOB)	20,000	30,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000		
RPM	100	90	80	80	80	80	75	75	80		
Pump Pressure	400	800	900	900	900	950	950	900	950		
Drilling (Rotating) Hours	2.75	10.00	19.50	21.00	12.75	9.00	0.25	0.50	4.25	0.00	80.00

Daywork Hrs. (Operator's time)											
Rat Hole (>.75 Hrs)											0.00
Wait on Cement	4.75	3.25									8.00
Trip		0.25			1.50	6.75	11.50	11.25	7.00		38.25
Circulate					8.75	2.50	4.00	5.50	3.00	1.50	25.25
Tool						1.00	1.50	1.00	0.25		3.75
Testing						4.00	6.50	4.50	2.00		17.00
Clean Floor after DST							0.25	1.00	0.25		1.50
Wait on Storm (weather)											0.00
Logging									5.25		5.25
LDDP / LDDC / Tally Casing									1.25	2.25	3.50
Run Casing / Circ / Cement	2.00									3.00	5.00
Plug Well											0.00
Set Slips										0.75	0.75
Wait on Casing Crew											0.00
Wait on Orders											0.00
Nipple Down/Jet Cellar										0.75	0.75
Billable Hours	6.75	3.50	0.00	0.00	10.25	14.25	23.75	23.25	19.00	8.25	109.00

Non-Billable Hours (Southwind's time)											
Rig Up / Tear Down	11.25									7.25	18.50
Drill Mouse Hole											0.00
Drill Rat Hole (<.75 hrs)	0.25										0.25
Drill Plug		0.50									0.50
Circulate / Trip (Surface)	0.75										0.75
Rig Repair	0.75	6.50	1.00					0.25			8.50
Wait on Parts											0.00
Connections	1.00	3.25	2.75	2.00	0.75	0.75			0.25		10.75
Jet/Displace	0.25	0.25	0.75	1.00					0.25		2.50
Surveys	0.25				0.25				0.25		0.75
Rig Check											0.00
Lost Circulation (< 2 hrs)											0.00
Lay Down Kelly / MH & RH										0.50	0.50
Mix Mud											0.00
Hole in Pipe											0.00
Non-Billable Hrs.	14.50	10.50	4.50	3.00	1.00	0.75	0.00	0.25	0.75	7.75	43.00
	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	16.00	

Footage Cost	\$ 3,770.00	\$ 15,413.50	\$ 15,979.00	\$ 12,035.00	\$ 5,002.50	\$ 2,929.00	\$ 87.00	\$ 232.00	\$ 1,812.50	\$ -	\$ 57,260.50
Daywork Cost	\$ 2,362.50	\$ 1,225.00	\$ -	\$ -	\$ 3,587.50	\$ 4,987.50	\$ 8,312.50	\$ 8,137.50	\$ 6,650.00	\$ 2,887.50	\$ 38,150.00
Combined Est. Cost*	\$ 6,132.50	\$ 16,638.50	\$ 15,979.00	\$ 12,035.00	\$ 8,590.00	\$ 7,916.50	\$ 8,399.50	\$ 8,369.50	\$ 8,462.50	\$ 2,887.50	\$ 95,410.50

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info - Footage Interval: 3534' - 3600' Recovery: 71' Muddy Water	DST #2 Info - Footage Interval: 3730' - 3802' Recovery: 366' Very Light Oil Spotted Mud 427' Very Light Oil Spotted Water
DST #3 Info - Footage Interval: 3800' - 3808' "Arbuckle" Recovery: 366' Oil 30' Oil Cut Mud	DST #4 Info - Footage Interval: 3808' - 3816' "Arbuckle" Recovery: 60' Clean Oil 60' Oil Cut Mud
DST #5 Info - Footage Interval: 3816' - 3824' "Arbuckle" Recovery: 90' Clean Oil 116' Oil Cut Mud 7' Water	DST #6 Info - Footage Interval: Recovery:

Anhydrite @ 741' - 765'

Displaced @