



KANSAS CORPORATION COMMISSION 1098008
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 # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Derek W. Patterson
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 #: _____

<u>05/02/2012</u>	<u>05/10/2012</u>	<u>05/29/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23747-00-00
Spot Description: _____
NE_SW_NW_SE Sec. 1 Twp. 22 S. R. 12 East West
1900 Feet from North / South Line of Section
2150 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stafford
Lease Name: HELMERS Well #: 1-1
Field Name: _____
Producing Formation: Viola
Elevation: Ground: 1809 Kelly Bushing: 1814
Total Depth: 3711 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 582 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: 9300 ppm Fluid volume: 400 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 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: Deanna Garnick Date: 11/01/2012



1098008

Operator Name: Valhalla Exploration LLC Lease Name: HELMERS Well #: 1-1
 Sec. 1 Twp. 22 S. R. 12 East West County: Stafford

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: Dual Induction CDNL Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>3082</td> <td>-1268</td> </tr> <tr> <td>Lansing</td> <td>3239</td> <td>-1425</td> </tr> <tr> <td>Base Kansas City</td> <td>3462</td> <td>-1648</td> </tr> <tr> <td>Viola</td> <td>3485</td> <td>-1671</td> </tr> <tr> <td>Simpson</td> <td>3531</td> <td>-1717</td> </tr> <tr> <td>Arbuckle</td> <td>3584</td> <td>-1770</td> </tr> <tr> <td>RTD</td> <td>3711</td> <td>-1897</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3082	-1268	Lansing	3239	-1425	Base Kansas City	3462	-1648	Viola	3485	-1671	Simpson	3531	-1717	Arbuckle	3584	-1770	RTD	3711	-1897
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Arbuckle	3584	-1770																							
RTD	3711	-1897																							

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	24	582	60/40 Poz, 3% CaCl, 2% ge	450	
Production	7.875	5.5	15.5	3706	60/40 Poz, Commor	175	

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	-			
	-			

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
6	3486-3489, 3499-3504, 3506-3524	Perforation	
		Fracture, 1400bbl gelled water, 58000# 20/40 sand	3486-3489, 3499-3504

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3631</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>07/04/2012</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	Water Bbls.	Gas-Oil Ratio <u>3486</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>3486</u> <u>3524</u>
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QUALITY OILWELL CEMENTING, INC.

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

Date: 5/5/2012
 Invoice # 408

P.O.#:
 Due Date: 6/4/2012
 Division: Russell

Invoice

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

Reference:
 HELMERS 1-1

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,275.68	No				
Common-Class A	270	\$ 3,681.53	Yes				
Bulk Truck Matl-Material Service Charge	477	\$ 1,066.24	No				
POZ Mix-Standard	180	\$ 925.41	Yes				
Calcium Chloride	17	\$ 715.54	Yes				
Flo Seal	225	\$ 502.94	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 267.70	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 156.65	No				
Premium Gel (Bentonite)	8	\$ 145.56	Yes				
8 5/8" Top Rubber Plug	1	\$ 118.47	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 100.59	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,956.31
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,343.45)

SubTotal for Taxable Items:	\$ 5,261.54
SubTotal for Non-Taxable Items:	\$ 2,351.33
Total:	\$ 7,612.86
Tax:	\$ 384.09

7.30% Stafford County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,996.96
Applied Payments:
Balance Due: \$ 7,996.96

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.

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

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

No. 408

Date	5-3-12	Sec.	1	Twp.	22	Range	12	County	Stafford	State	Ks	On Location	Finish	3:30AM
Lease	Helmers		Well No.	1-1		Location	Ike + Joe's - 1 E, 3/8 N, W/Into							

Contractor	Southwind #4		Owner	To Quality Oilwell Cementing, Inc.	
Type Job	Surface		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size	12 1/4"	T.D.	582'	Charge To	
Csg.	8 5/8"	Depth	582'	Dalhalla Exploration, LLC	
Tbg. Size		Depth		Street	
Tool		Depth		City	
Cement Left in Csg.	28.16'	Shoe Joint	28.16'	State	
Meas Line		Displace	354 BLS	The above was done to satisfaction and supervision of owner agent or contractor.	
			Cement Amount Ordered		

EQUIPMENT			2# Flo-seal per sack		
Pumptrk	9	No. Cementer	Common		
		Helper	270		
Bulktrk	13	No. Driver	Poz. Mix		
		Driver	180		
Bulktrk	p.u.	No. Driver	Gel.		
		Driver	8		

JOB SERVICES & REMARKS			Calcium		
Remarks:	Cement did Circulate.		17		
Rat Hole			Hulls		
Mouse Hole			Salt		
Centralizers			Flowseal		
Baskets			225 #		
D/V or Port Collar			Kol-Seal		
			Mud CLR 48		
			CFL-117 or CD110 CAF 38		
			Sand		
			Handling		
			477		
			Mileage		

FLOAT EQUIPMENT					
			Guide Shoe		
			Centralizer		
			Baskets		
			AFU Inserts		
			Float Shoe		
			Latch Down		
			1- Baffle plate		
			1- Rubber plug		
			Pumptrk Charge		
			Long Surface		
			Mileage		
			24		

	Tax	
	Discount	
	Total Charge	

X Signature Robert Stevenson



PAGE	CUST NO	INVOICE DATE
1 of 1	1007761	05/14/2012
INVOICE NUMBER		
1718 - 90904059		

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 Helmers 1-1
 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
40463275	19843		Net - 30 days	06/13/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 05/12/2012 to 05/12/2012				
0040463275				
171806141A Cement-New Well Casing/Pi 05/12/2012 Cement 5 1/2" Longstring				
50/50 POZ	125.00	EA	8.80	1,099.92 T
60/40 POZ	80.00	EA	9.60	767.94 T
Celloflake	32.00	EA	2.96	94.71 T
Gypsum	525.00	EA	0.60	314.98 T
FLA-322	53.00	EA	6.00	317.98 T
Gilsonite	625.00	EA	0.54	334.98 T
Mud Flush	500.00	EA	0.69	343.97 T
Claymax KCL Substitute	4.00	EA	28.00	111.99 T
KCL Potassium Chloride	288.00	EA	1.20	345.57 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	319.98	319.98
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	287.98	287.98
"Turbolizer, 5 1/2" (Blue)"	8.00	EA	87.99	703.95
"5 1/2" Basket (Blue)"	1.00	EA	231.98	231.98
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.40	152.99
Heavy Equipment Mileage	90.00	MI	5.60	503.96
"Proppant & Bulk Del. Chgs., per ton mil	392.00	EA	1.28	501.72
Depth Charge: 3001-4000'	1.00	EA	1,727.88	1,727.88
Blending & Mixing Service Charge	205.00	BAG	1.12	229.58
Plug Container Util. Chg.	1.00	EA	199.99	199.99
"Service Supervisor, first 8 hrs on loc.	1.00	EA	139.99	139.99

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,732.04
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	272.44
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,004.48
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 06141 A

DATE _____ TICKET NO. _____

DATE OF JOB: 5-12-17 DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER: Valhalla Exploration LLC		LEASE: [unclear] WELL NO. 1-1								
ADDRESS:		COUNTY: Stafford STATE: KS								
CITY: STATE:		SERVICE CREW: [unclear]								
AUTHORIZED BY:		JOB TYPE: CNO - 5/12/17								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
2723	1						5-11-17			12:00
19831-19862	1									
						ARRIVED AT JOB				
						START OPERATION	5-12-17	AM	PM	12:00
						FINISH OPERATION	5-12-17	AM	PM	12:00
						RELEASED	5-12-17	AM	PM	12:00
						MILES FROM STATION TO WELL				4.5

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP104	50/50 P02	SK	175		1375.00
CP103	60/40 P02	SK	200		960.00
CC103	Calcium Chloride	Lb	32		118.40
CL113	Calcium Chloride	Lb	525		393.75
CC121	Calcium Chloride	Lb	53		397.50
CC201	Calcium Chloride	Lb	625		418.75
C200	KCL	Lb	288		432.00
CP607	Acetic Acid 11.11%	Gal	1		400.00
CP1251	Acetic Acid 11.11%	Gal	1		360.00
CP1651	Acetic Acid 11.11%	Gal	8		880.00
CP1651	Acetic Acid 11.11%	Gal	1		360.00
CP1651	Acetic Acid 11.11%	Gal	4		1440.00
CP181	Acetic Acid 11.11%	Gal	500		4300.00
CP181	Acetic Acid 11.11%	Gal	45		191.25
CP181	Acetic Acid 11.11%	Gal	36		630.00
CP181	Acetic Acid 11.11%	Gal	375		626.40
CP200	Acetic Acid 11.11%	Gal	1		2160.00
CP200	Acetic Acid 11.11%	Gal	200		277.00
CP200	Acetic Acid 11.11%	Gal	1		2500.00
					175.00
				SUB TOTAL	8732.04

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: [unclear] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [unclear]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer Valhalla Explorator	Lease No.	Date 5-10-13
Lease Holmers	Well # 1-1	
Field Order # 6011	Station P.anti	Casing 5 1/2
Type Job CNUW 5 1/2 L.S.	Depth	County St. Louis
	Formation	State MO
		Legal Description 1.00-1.0

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5 1/2		12-52		50/50 P02				
Depth	Depth	From	To	Pre Pad		Max		5 Min.
83.3				1.357.6				
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
				60/40 P02				
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
				1.264.12				
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load
86.86				87.7				

Customer Representative Kelly Beaman	Station Manager Dave Scott	Treater Steve Orlando
Service Units 07283 19959 19843 19831 19863		
Driver Names Orlando Marquez B195I		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:30 PM					On location - Safety Meeting
					Run 89 J to 5 1/2 13.5" Co.
					Centralize 1.357-9-11-13
					Back on p. #3 (21) 1.0
					Center on Bottom Break (w/1.0)
10:15	300		12	5	Mod Slush
10:17	300		5	5	1120 spacer
10:18	250		12	5	Mat 2000 L/140-112/10
10:20	250		30	5	1.357-9-11-13
					Shot down (1.357-9-11-13)
					Retain plug
10:30	2		4	6	Shot 1120 Drift (1.357-9-11-13)
10:36	300		45	5	1.357-9-11-13
10:43	500		78	4.5	Steve Katz
10:45	1500		88	4.5	Plug Down - Hold
2:15 PM					Plug Kit w 300-1.357-9-11-13
					Tube on plug
					Treat 1.357-9-11-13



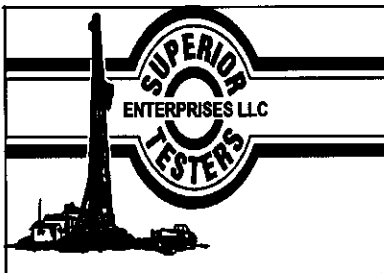
PAGE 1 of 1	CUST NO 1007761	INVOICE DATE 05/14/2012
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 I 133 NORTH GLENDALE
 L WICHITA
 L KS US 67208
 T
 O ATTN: KENNEDY

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PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,004.48
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17135 **DST#: 1**
 Test Start: 2012.05.07 @ 17:27:00

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.20 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	7200.00 ppm				
Filter Cake:	1.00 inches				

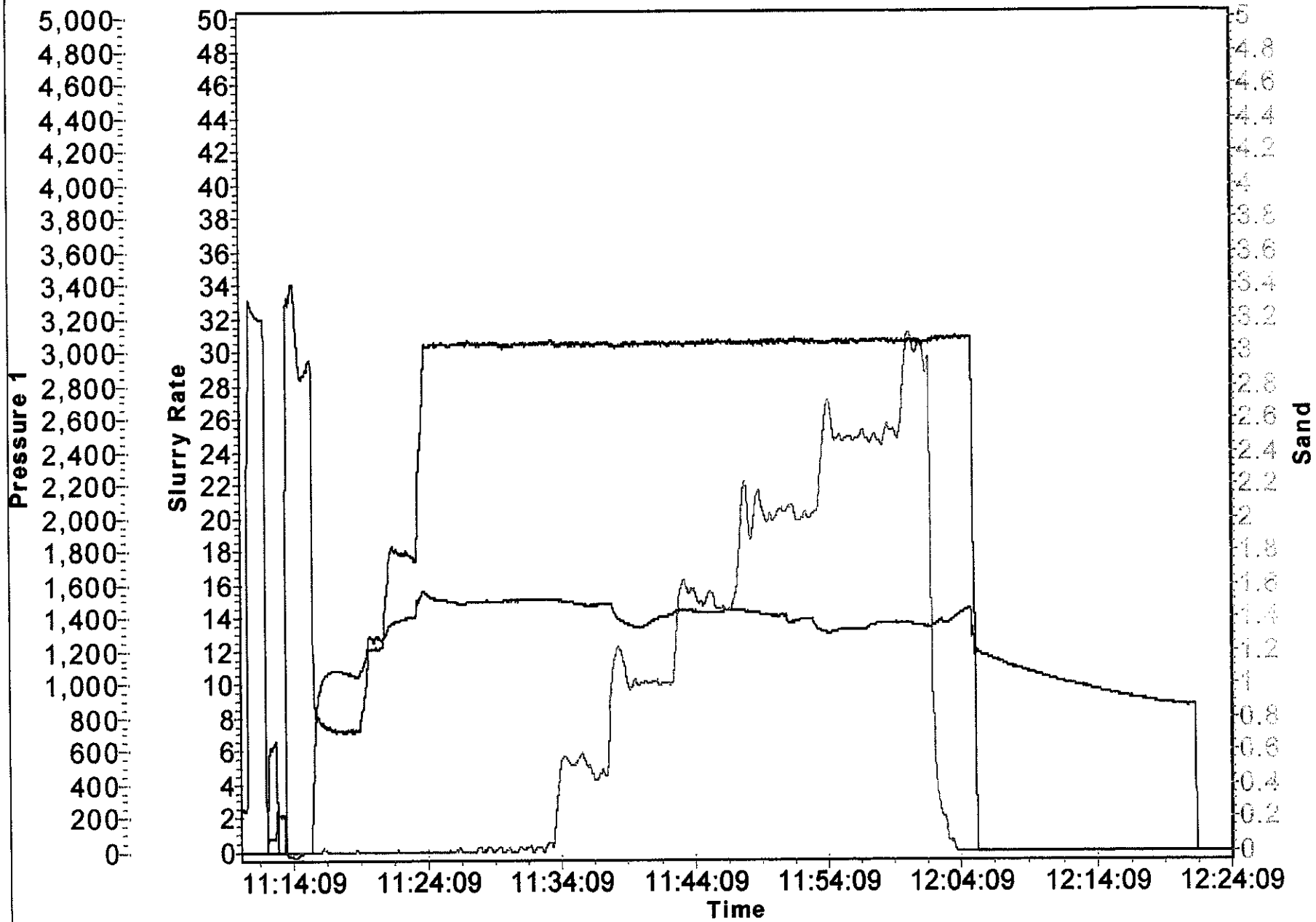
Recovery Information

Recovery Table

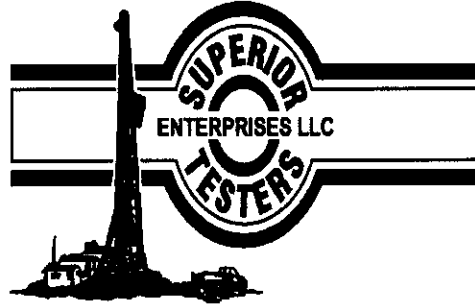
Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Valhalla Exploration Helmers #1-1



- PSI 1 - Sand Density - Slurry Rate



DRILL STEM TEST REPORT

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

133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

Helmerts#1-1

1-22s-12w Stafford

Start Date: 2012.05.07 @ 17:27:00

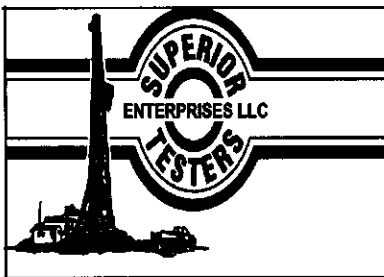
End Date: 2012.05.07 @ 22:37:30

Job Ticket #: 17135 DST #: 1

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

Printed: 2012.05.07 @ 23:06:33

Valhalla Exploration L.L.C 1-22s-12w Stafford Helmerts#1-1 DST # 1 Lansing 'H' 2012.05.07



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17135 **DST#: 1**
 Test Start: 2012.05.07 @ 17:27:00

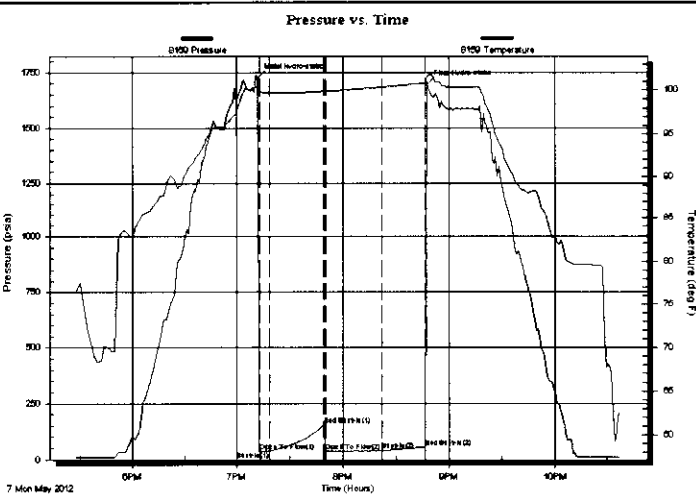
GENERAL INFORMATION:

Formation: **Lansing ' H '**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:13:00
 Time Test Ended: 22:37:30
 Interval: **3352.00 ft (KB) To 3372.00 ft (KB) (TVD)**
 Total Depth: **3372.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 40.82 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.07 End Date: 2012.05.07 Last Calib.: 2012.05.07
 Start Time: 17:27:00 End Time: 22:37:30 Time On Btm: 2012.05.07 @ 19:12:00
 Time Off Btm: 2012.05.07 @ 20:47:30

TEST COMMENT: 1st Open 5 Minutes-Very weak blow built 1/4 inch into water in 5 minutes
 1st Shut-in 30 Minutes No blow back
 2nd Open 30 Minutes-Very weak surge did not built
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

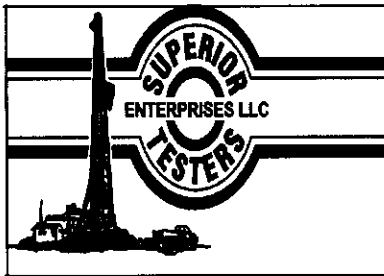
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1726.31	100.36	Initial Hydro-static
1	39.20	99.81	Open To Flow (1)
7	39.19	99.67	Shut-In(1)
37	155.85	99.91	End Shut-In(1)
38	39.03	99.88	Open To Flow (2)
70	40.82	100.37	Shut-In(2)
95	56.79	100.82	End Shut-In(2)
96	1697.80	101.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17135 **DST#: 1**
 Test Start: 2012.05.07 @ 17:27:00

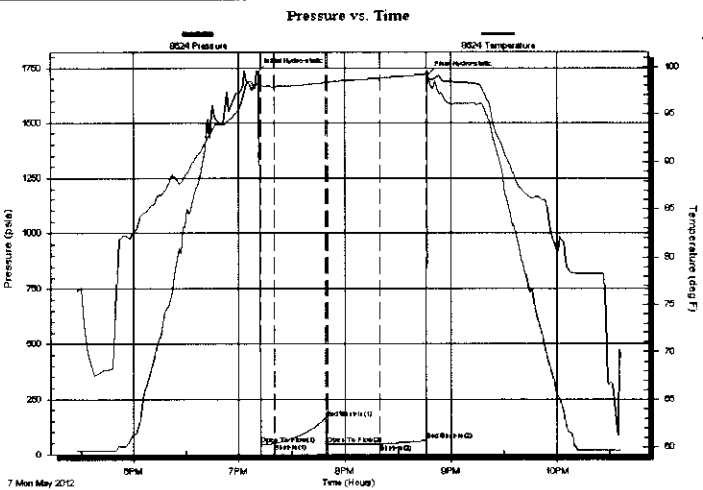
GENERAL INFORMATION:

Formation: **Lansing ' H '**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:13:00 Tester: Jared Scheck
 Time Test Ended: 22:37:30 Unit No: 3320-50-Great Bend
 Interval: **3352.00 ft (KB) To 3372.00 ft (KB) (TVD)** Reference Elevations: 1814.00 ft (KB)
 Total Depth: 3372.00 ft (KB) (TVD) 1807.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8524

Press@RunDepth: 63.39 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.07 End Date: 2012.05.07 Last Calib.: 2012.05.07
 Start Time: 17:27:00 End Time: 22:37:00 Time On Btm: 2012.05.07 @ 19:11:00
 Time Off Btm: 2012.05.07 @ 20:47:00

TEST COMMENT: 1st Open 5 Minutes-Very weak blow built 1/4 inch into water in 5 minutes
 1st Shut-in 30 Minutes No blow back
 2nd Open 30 Minutes-Very weak surge did not built
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

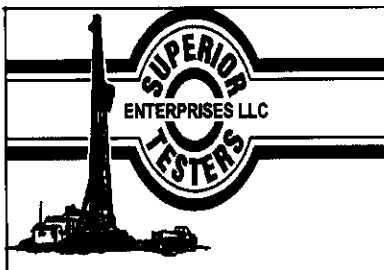
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1731.28	98.23	Initial Hydro-static
2	45.77	98.04	Open To Flow (1)
9	49.39	97.90	Shut-in(1)
38	163.69	98.33	End Shut-in(1)
39	46.66	98.37	Open To Flow (2)
69	47.05	98.80	Shut-in(2)
95	63.39	99.20	End Shut-in(2)
96	1719.67	98.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

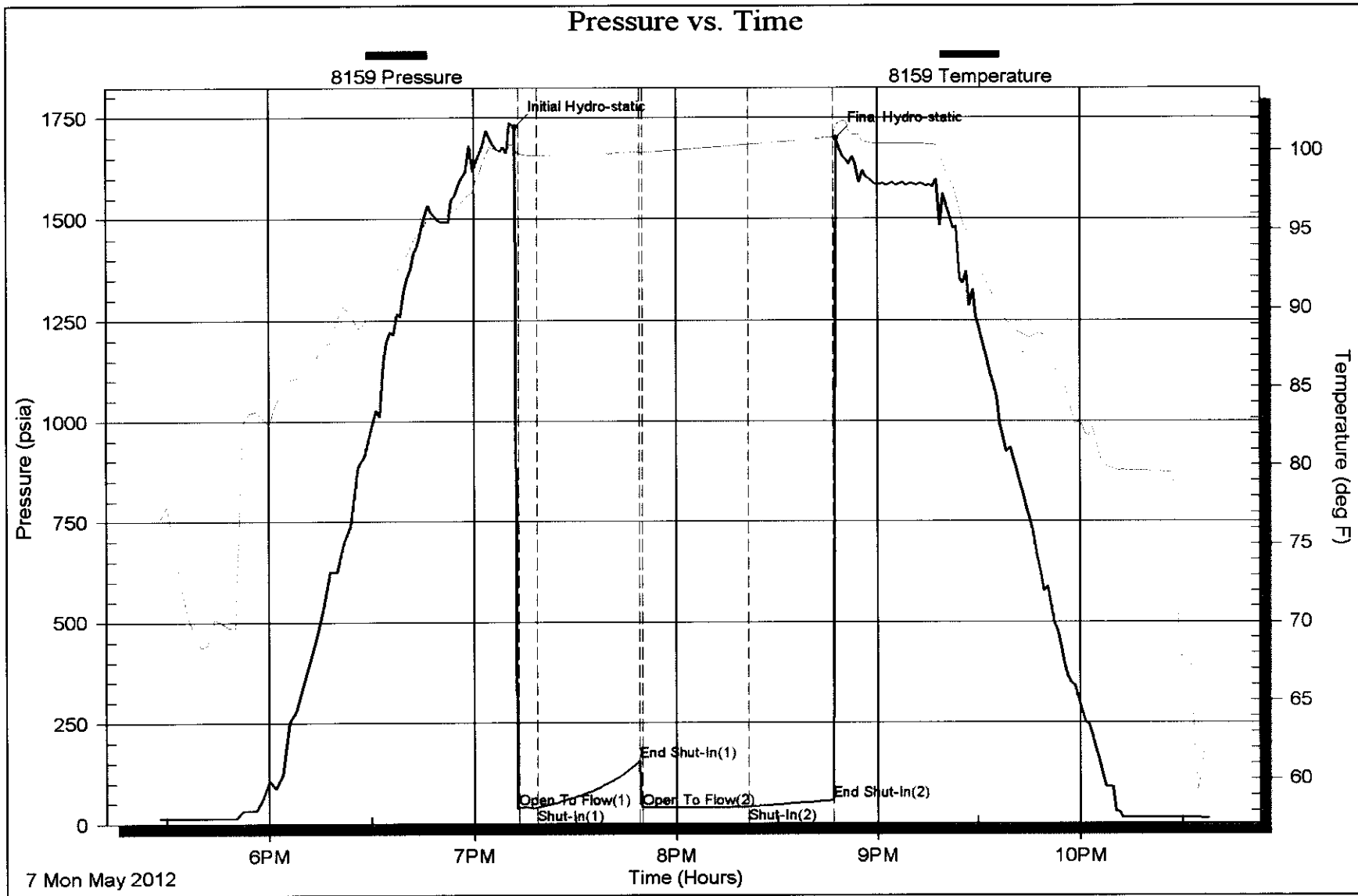
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17135 **DST#: 1**
 Test Start: 2012.05.07 @ 17:27:00

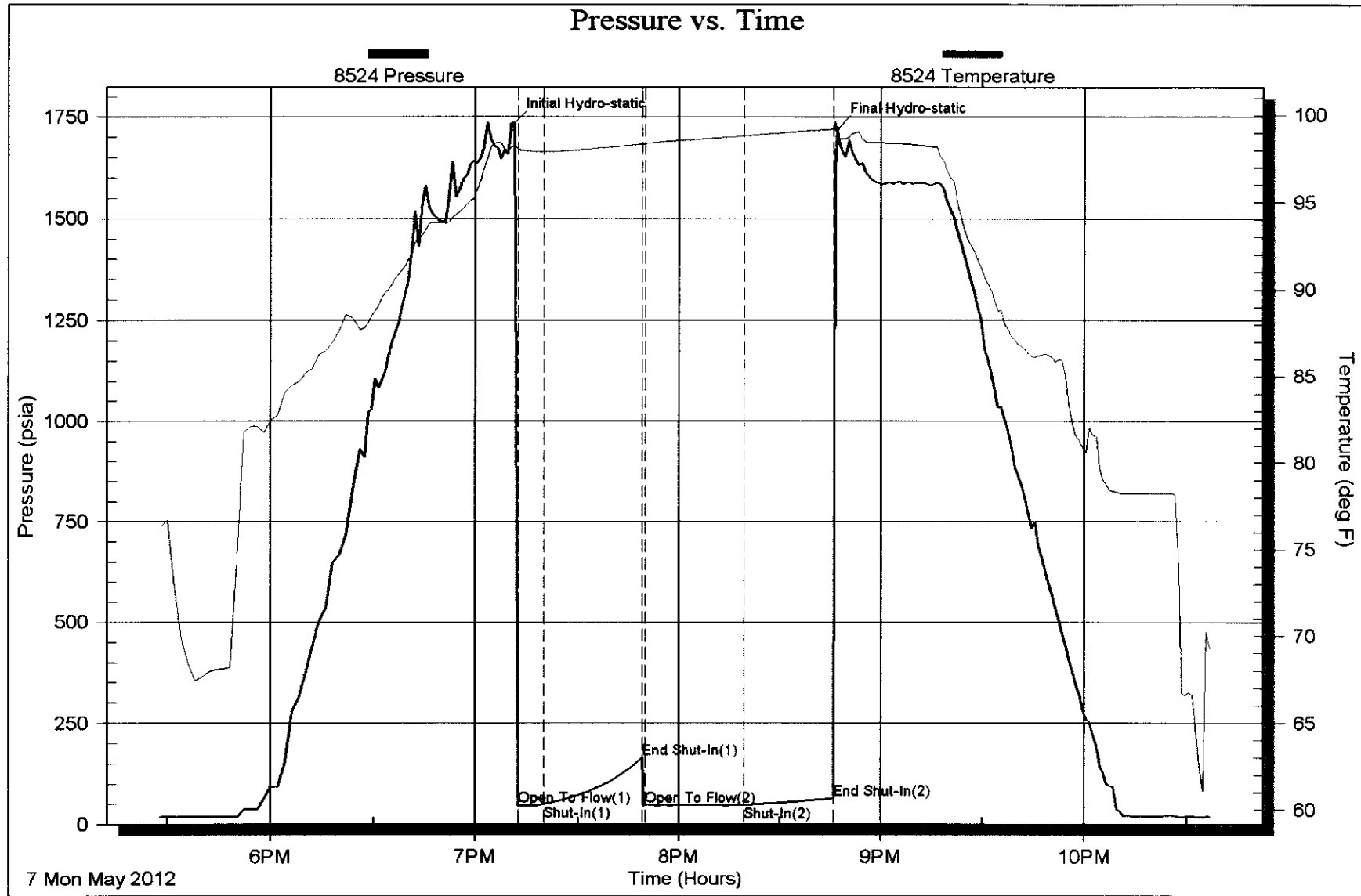
Tool Information

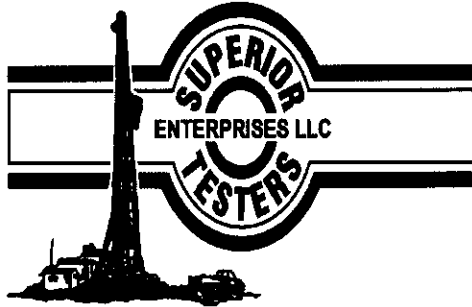
Drill Pipe:	Length: 3219.00 ft	Diameter: 3.80 inches	Volume: 45.15 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3352.00 ft			Final	46000.00 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	3329.00	
Hydraulic Tool	5.00			3334.00	
Jars	6.00			3340.00	
Safety Joint	2.00			3342.00	
Packer	5.00			3347.00	28.00 Bottom Of Top Packer
Packer	5.00			3352.00	
Anchor	15.00			3367.00	
Recorder	1.00	8159	Inside	3368.00	
Recorder	1.00	8524	Outside	3369.00	
Bullnose	3.00			3372.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				







DRILL STEM TEST REPORT

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

ATTN: Derek Patterson

Helmerts#1-1

1-22s-12w Stafford

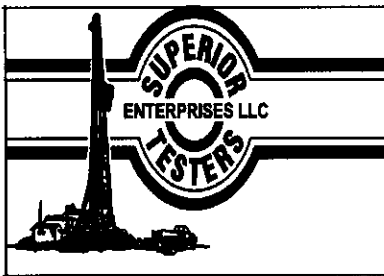
Start Date: 2012.05.08 @ 21:10:00

End Date: 2012.05.09 @ 03:14:30

Job Ticket #: 17136 DST #: 2

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

Printed: 2012.05.09 @ 03:42:35



DRILL STEM TEST REPORT

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

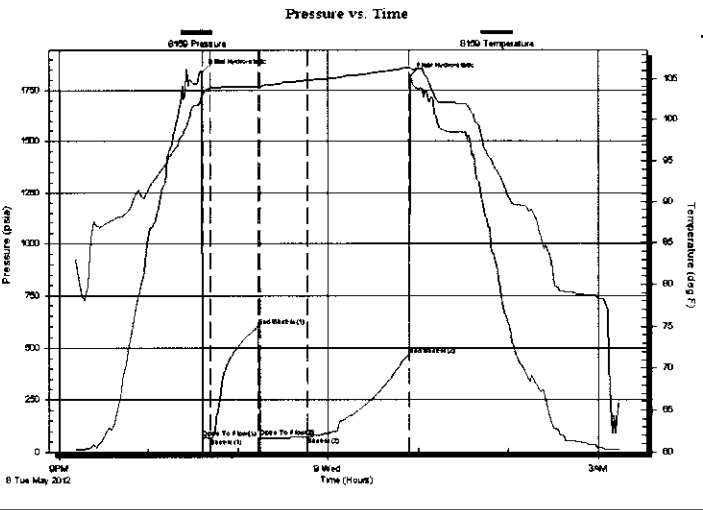
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17136 **DST#: 2**
 Test Start: 2012.05.08 @ 21:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:36:30
 Time Test Ended: 03:14:30
 Interval: **3524.00 ft (KB) To 3586.00 ft (KB) (TVD)**
 Total Depth: 3586.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159 Inside
 Press@RunDepth: 71.72 psia @ 3582.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.08 End Date: 2012.05.09 Last Calib.: 2012.05.09
 Start Time: 21:10:00 End Time: 03:14:30 Time On Btm: 2012.05.08 @ 22:35:30
 Time Off Btm: 2012.05.09 @ 00:54:30

TEST COMMENT: 1st Opening 5 Minutes-Weak blow built 1 1/4 in 5 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1 1/4 into bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

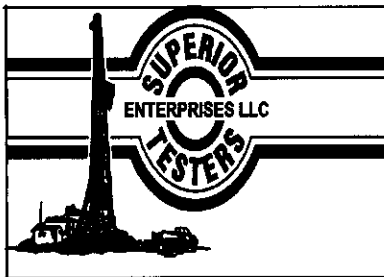
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1838.00	102.96	Initial Hydro-static
1	66.09	103.19	Open To Flow (1)
6	69.09	103.89	Shut-In(1)
38	599.20	104.07	End Shut-In(1)
39	71.23	103.94	Open To Flow (2)
71	71.72	104.83	Shut-In(2)
138	462.83	106.36	End Shut-In(2)
139	1818.22	106.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud Oil 20% Oil 80% Mud	0.10

Gas Rates

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



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17136 **DST#: 2**
 Test Start: 2012.05.08 @ 21:10:00

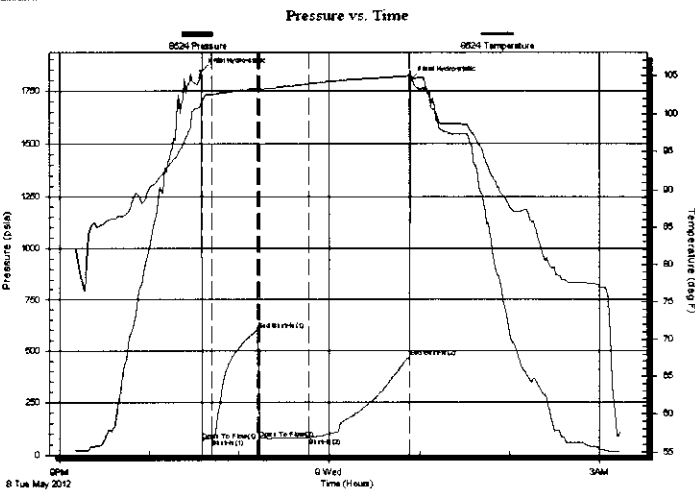
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:36:30
 Time Test Ended: 03:14:30
 Interval: **3524.00 ft (KB) To 3586.00 ft (KB) (TVD)**
 Total Depth: 3586.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8524 Outside
 Press@RunDepth: 467.46 psia @ 3583.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.08 End Date: 2012.05.09 Last Calib.: 2012.05.09
 Start Time: 21:10:00 End Time: 03:14:00 Time On Btm: 2012.05.08 @ 22:34:30
 Time Off Btm: 2012.05.09 @ 00:54:00

TEST COMMENT: 1st Opening 5 Minutes-Weak blow built 1 1/4 in 5 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak blow built 1 1/4 into bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

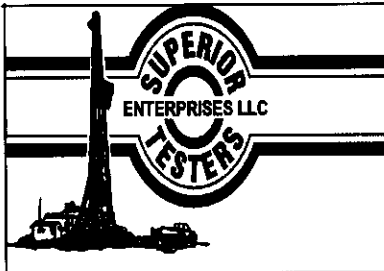
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1844.96	101.50	Initial Hydro-static
1	68.79	101.62	Open To Flow (1)
8	78.17	102.53	Shut-In(1)
38	601.76	103.30	End Shut-In(1)
39	77.69	103.14	Open To Flow (2)
72	81.82	103.92	Shut-In(2)
139	467.46	104.96	End Shut-In(2)
140	1799.78	105.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud Oil 20% Oil 80% Mud	0.10

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17136 **DST#: 2**
 Test Start: 2012.05.08 @ 21:10:00

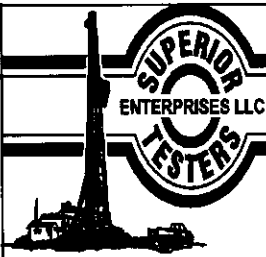
Tool Information

Drill Pipe:	Length: 3407.00 ft	Diameter: 3.80 inches	Volume: 47.79 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 48.38 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3524.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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	3501.00	
Hydraulic Tool	5.00			3506.00	
Jars	6.00			3512.00	
Safety Joint	2.00			3514.00	
Packer	5.00			3519.00	28.00 Bottom Of Top Packer
Packer	5.00			3524.00	
Anchor	0.00			3524.00	
Change Over Sub	0.75			3524.75	
Drill Pipe	30.50		Outside	3555.25	
Change Over Sub	0.75		Outside	3556.00	
Anchor	25.00			3581.00	
Recorder	1.00	8159	Inside	3582.00	
Recorder	1.00	8524	Outside	3583.00	
Bullnose	3.00			3586.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17136 **DST#: 2**
 Test Start: 2012.05.08 @ 21:10:00

Mud and Cushion Information

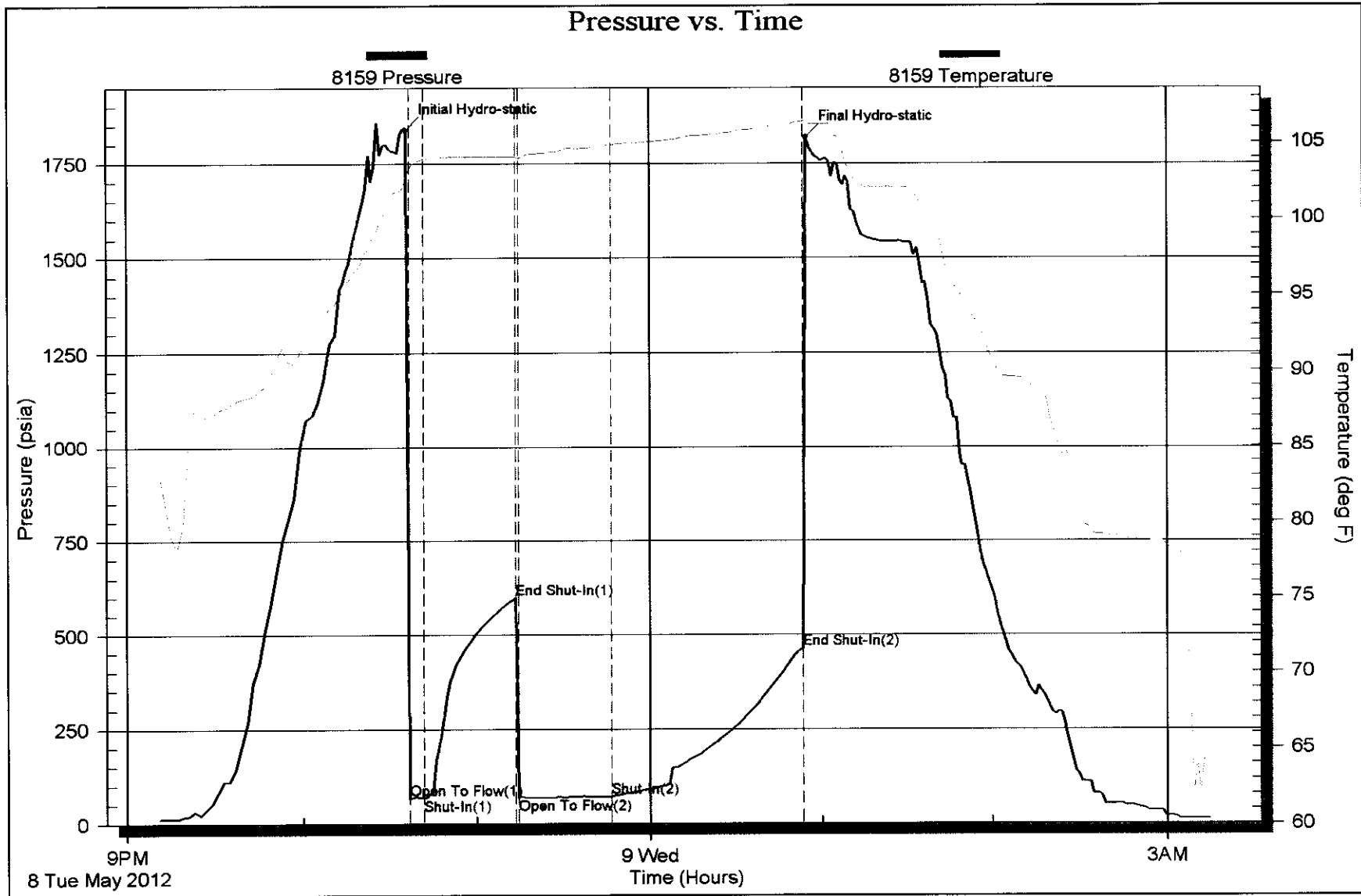
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7900.00 ppm			
Filter Cake: 1.00 inches			

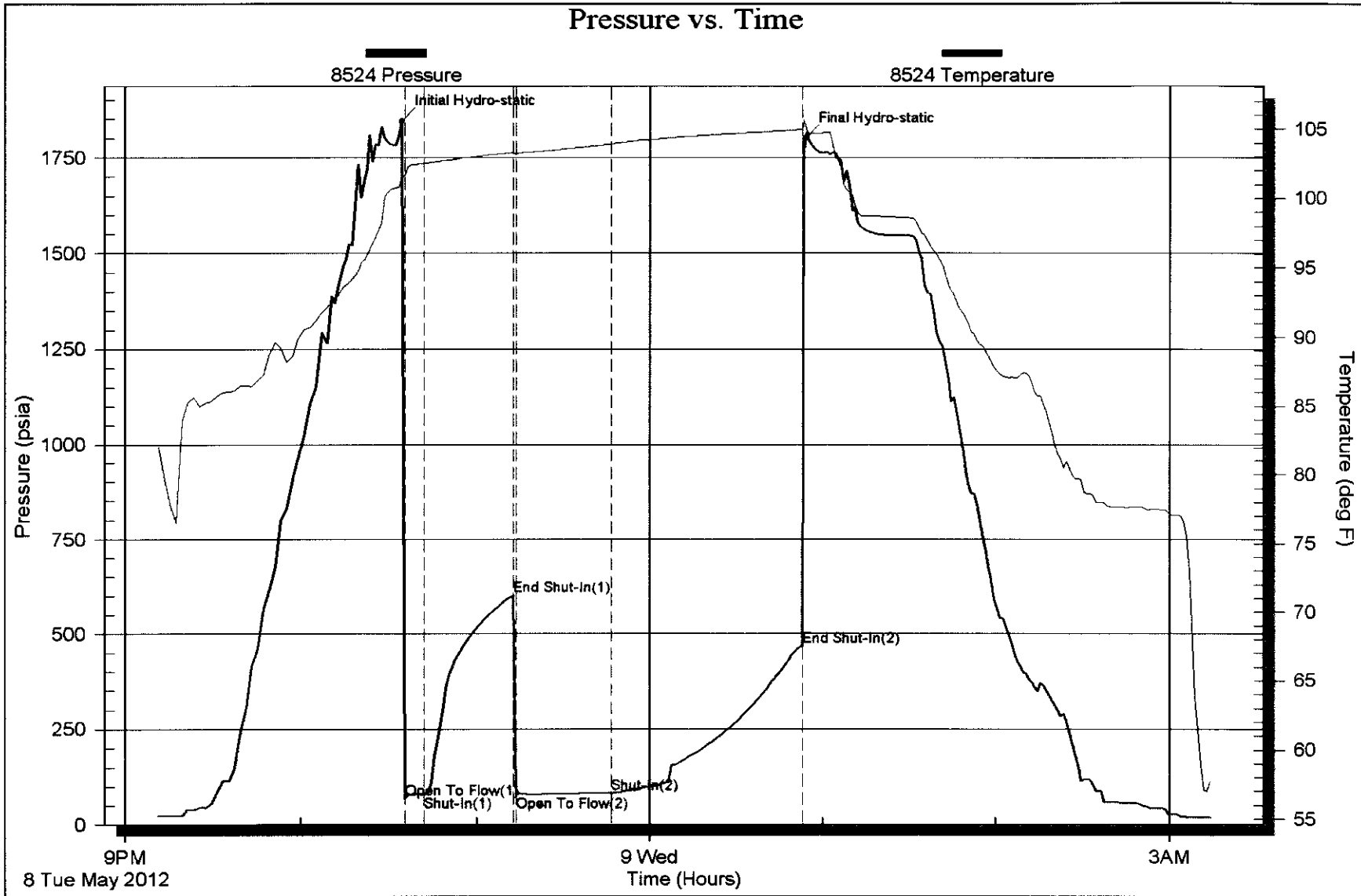
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud Oil 20%Oil 80%Mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

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

133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

Helmerts#1-1

1-22s-12w Stafford

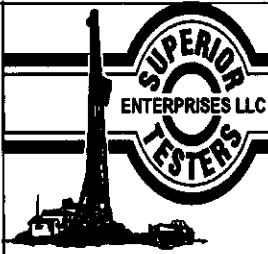
Start Date: 2012.05.09 @ 09:50:00

End Date: 2012.05.09 @ 14:40:00

Job Ticket #: 17137 DST #: 3

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

Printed: 2012.05.10 @ 03:28:56



DRILL STEM TEST REPORT

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

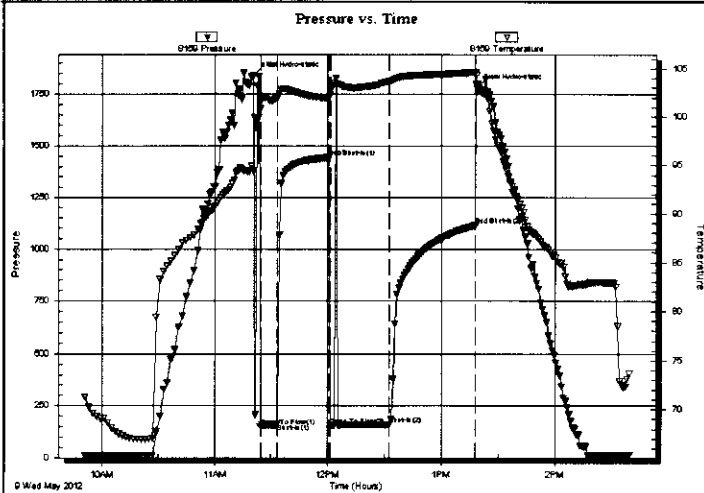
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17137 **DST#: 3**
 Test Start: 2012.05.09 @ 09:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:24:30
 Time Test Ended: 14:40:00
 Interval: **3586.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159 Inside
 Press@RunDepth: 158.96 psia @ 3588.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.09 End Date: 2012.05.09 Last Calib.: 2012.05.09
 Start Time: 09:51:00 End Time: 14:40:00 Time On Btm: 2012.05.09 @ 11:20:30
 Time Off Btm: 2012.05.09 @ 13:19:00

TEST COMMENT: 1st Opening 7 Minutes-Fair blow built 6 inches into water lost mud in hole so picked up reset tool fair blow built 4 inches onto water in 7 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build flushed tool weak surge did not build



PRESSURE SUMMARY

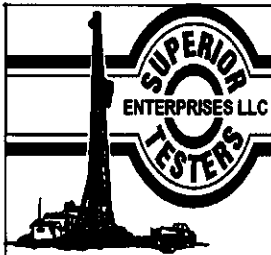
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.63	94.39	Initial Hydro-static
4	150.06	100.92	Open To Flow (1)
13	163.91	101.89	Shut-in(1)
40	1442.87	102.00	End Shut-in(1)
41	155.94	102.27	Open To Flow (2)
72	158.96	103.68	Shut-in(2)
118	1112.03	104.63	End Shut-in(2)
119	1784.11	103.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud	1.43
60.00	Mud with Spot oil 1%oil 99% mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

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

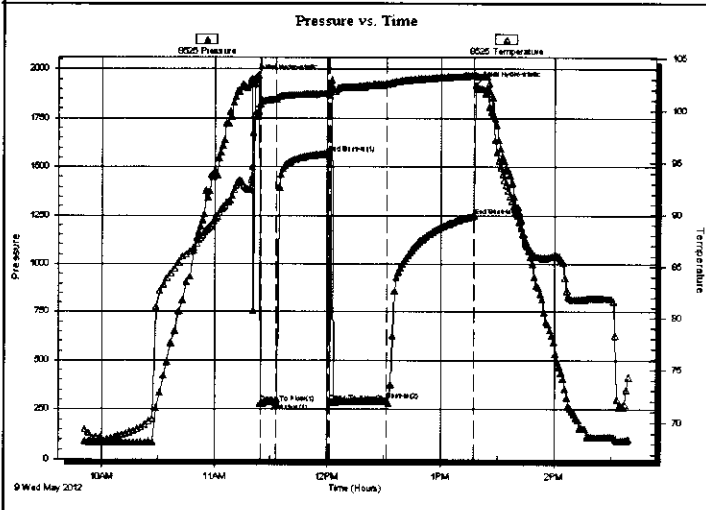
1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17137 **DST#: 3**
 Test Start: 2012.05.09 @ 09:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:24:30
 Time Test Ended: 14:40:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Interval: **3586.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 ft (KB) (TVD)
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 KB to GR/CF: 7.00 ft

Serial #: 8525 Outside
 Press@RunDepth: 1248.25 psia @ 3589.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.09 End Date: 2012.05.09 Last Calib.: 2012.05.09
 Start Time: 09:51:00 End Time: 14:39:30 Time On Btm: 2012.05.09 @ 11:20:00
 Time Off Btm: 2012.05.09 @ 13:18:30

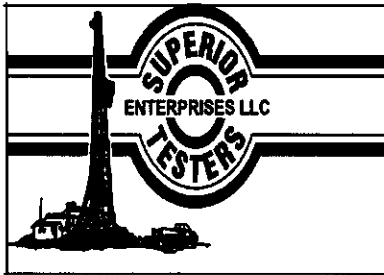
TEST COMMENT: 1st Opening 7 Minutes-Fair blow built 6 inches into water lost mud in hole so picked up reset tool fair blow built 4 inches onto water in 7 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build flushed tool weak surge didnot build



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1953.45	94.67	Initial Hydro-static
5	281.15	100.63	Open To Flow (1)
13	281.85	101.11	Shut-In(1)
41	1569.35	101.67	End Shut-In(1)
42	288.15	101.53	Open To Flow (2)
72	295.40	102.57	Shut-In(2)
118	1248.25	103.39	End Shut-In(2)
119	1920.28	103.40	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	Mud	1.43
60.00	Mud with Spot oil 1%oil 99%mud	0.84

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

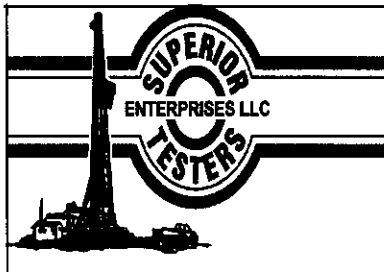
1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17137 **DST#: 3**
 Test Start: 2012.05.09 @ 09:50:00

Tool Information

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 49.24 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3586.00 ft			Final	50000.00 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 chased 5 feet to bottom /2nd open flushed tool weak surge did not build

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	3568.00	
Hydrolic Tool	5.00			3573.00	
Jars	6.00			3579.00	
Safety Joint	2.00			3581.00	
Packer	5.00			3586.00	23.00 Bottom Of Top Packer
Anchor	1.00			3587.00	
Recorder	1.00	8159	Inside	3588.00	
Recorder	1.00	8525	Outside	3589.00	
Bullnose	3.00			3592.00	6.00 Anchor Tool
Total Tool Length:	29.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17137 **DST#: 3**
 Test Start: 2012.05.09 @ 09:50:00

Mud and Cushion Information

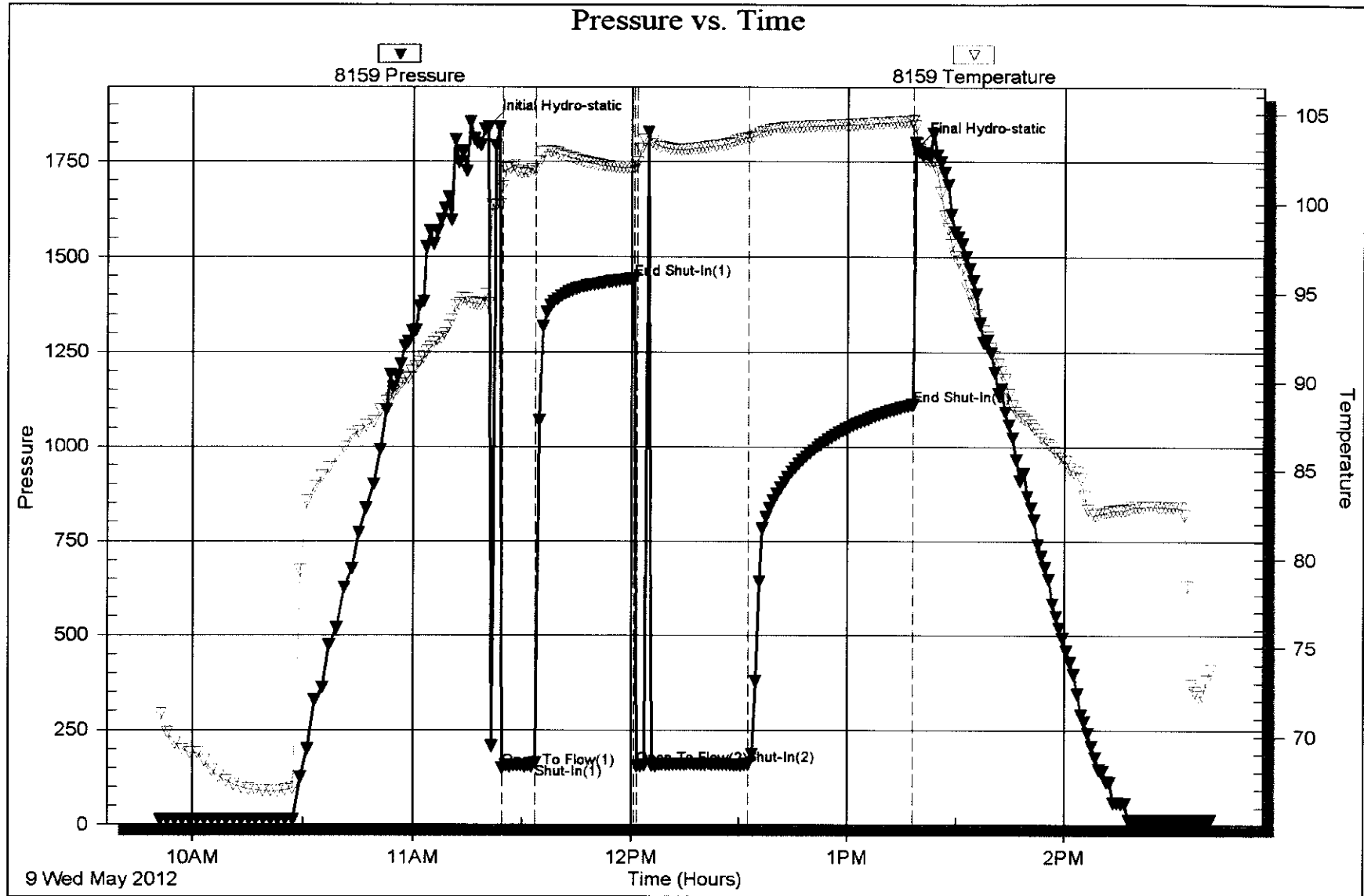
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9300.00 ppm			
Filter Cake: 1.00 inches			

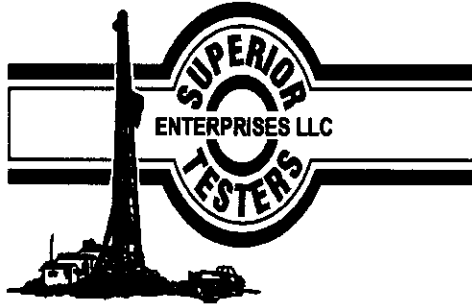
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud	1.432
60.00	Mud with Spot oil 1%oil 99%mud	0.842

Total Length: 240.00 ft Total Volume: 2.274 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

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

133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

Helmerts#1-1

1-22s-12w Stafford

Start Date: 2012.05.09 @ 20:00:00

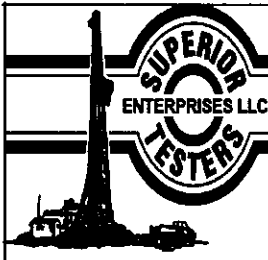
End Date: 2012.05.10 @ 02:21:30

Job Ticket #: 17138 DST #: 4

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

Printed: 2012.05.10 @ 03:26:28

Valhalla Exploration L.L.C
1-22s-12w Stafford
Helmerts#1-1
DST # 4
Arbuckle
2012.05.09



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17138 **DST#: 4**
 Test Start: 2012.05.09 @ 20:00:00

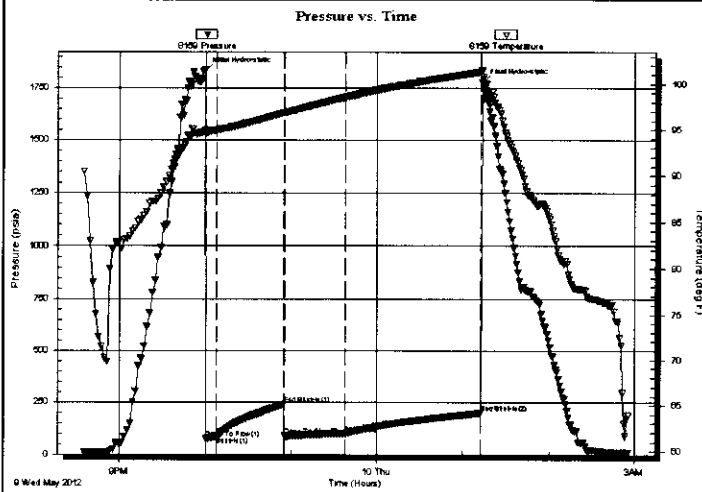
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:26:30
 Time Test Ended: 02:21:30
 Interval: **3522.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 100.54 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.09 End Date: 2012.05.10 Last Calib.: 2012.05.10
 Start Time: 20:34:00 End Time: 02:55:30 Time On Btm: 2012.05.09 @ 21:59:30
 Time Off Btm: 2012.05.10 @ 01:13:30

TEST COMMENT: 1st Opening 5 Minutes-Weak blow built 2 1/4 inches into water in 5 minutes Tool chased 2 feet
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

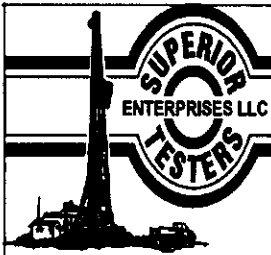
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1835.02	95.00	Initial Hydro-static
1	76.98	94.63	Open To Flow (1)
8	85.01	94.99	Shut-In(1)
55	240.39	96.85	End Shut-In(1)
56	88.32	96.85	Open To Flow (2)
99	100.54	98.56	Shut-In(2)
193	197.85	101.33	End Shut-In(2)
194	1779.00	101.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Muddy oil 20% Oil 80% Mud	0.44

Gas Rates

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



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmert#1-1
 Job Ticket: 17138 **DST#: 4**
 Test Start: 2012.05.09 @ 20:00:00

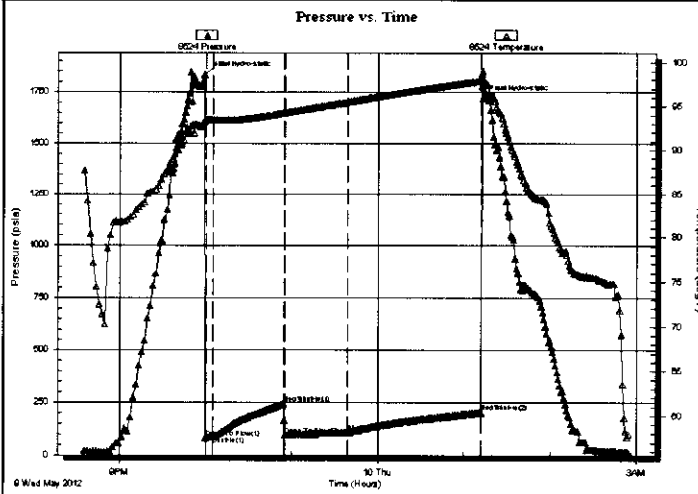
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:26:30
 Time Test Ended: 02:21:30
 Interval: **3522.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8524

Press@RunDepth: 203.13 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.09 End Date: 2012.05.10 Last Calib.: 2012.05.10
 Start Time: 20:34:00 End Time: 02:55:00 Time On Btm: 2012.05.09 @ 21:59:00
 Time Off Btm: 2012.05.10 @ 01:13:00

TEST COMMENT: 1st Opening 5 Minutes-Weak blow built 2 1/4 inches into water in 5 minutes Tool chased 2 feet
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

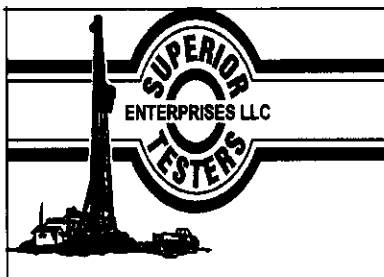
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1834.19	93.39	Initial Hydro-static
1	83.76	93.46	Open To Flow (1)
6	90.39	93.46	Shut-In(1)
55	244.45	94.24	End Shut-In(1)
56	94.95	94.28	Open To Flow (2)
100	107.87	95.51	Shut-In(2)
193	203.13	97.92	End Shut-In(2)
194	1719.56	99.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Muddy oil 20% Oil 80% Mud	0.44

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17138 **DST#: 4**
 Test Start: 2012.05.09 @ 20:00:00

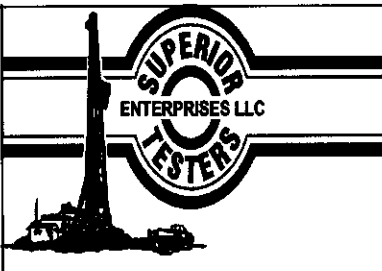
Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.27 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3522.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool chased 2 feet to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-In Tool	5.00		Inside	3499.00	
Hydraulic Tool	5.00			3504.00	
Jars	6.00			3510.00	
Safety Joint	2.00			3512.00	
Packer	5.00			3517.00	28.00 Bottom Of Top Packer
Packer	5.00			3522.00	
Anchor	0.00			3522.00	
Change Over Sub	0.75			3522.75	
Drill Pipe	30.50		Outside	3553.25	
Change Over Sub	0.75		Outside	3554.00	
Anchor	33.00			3587.00	
Recorder	1.00	8159	Inside	3588.00	
Recorder	1.00	8524	Outside	3589.00	
Bullnose	3.00			3592.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17138 **DST#: 4**
 Test Start: 2012.05.09 @ 20:00:00

Mud and Cushion Information

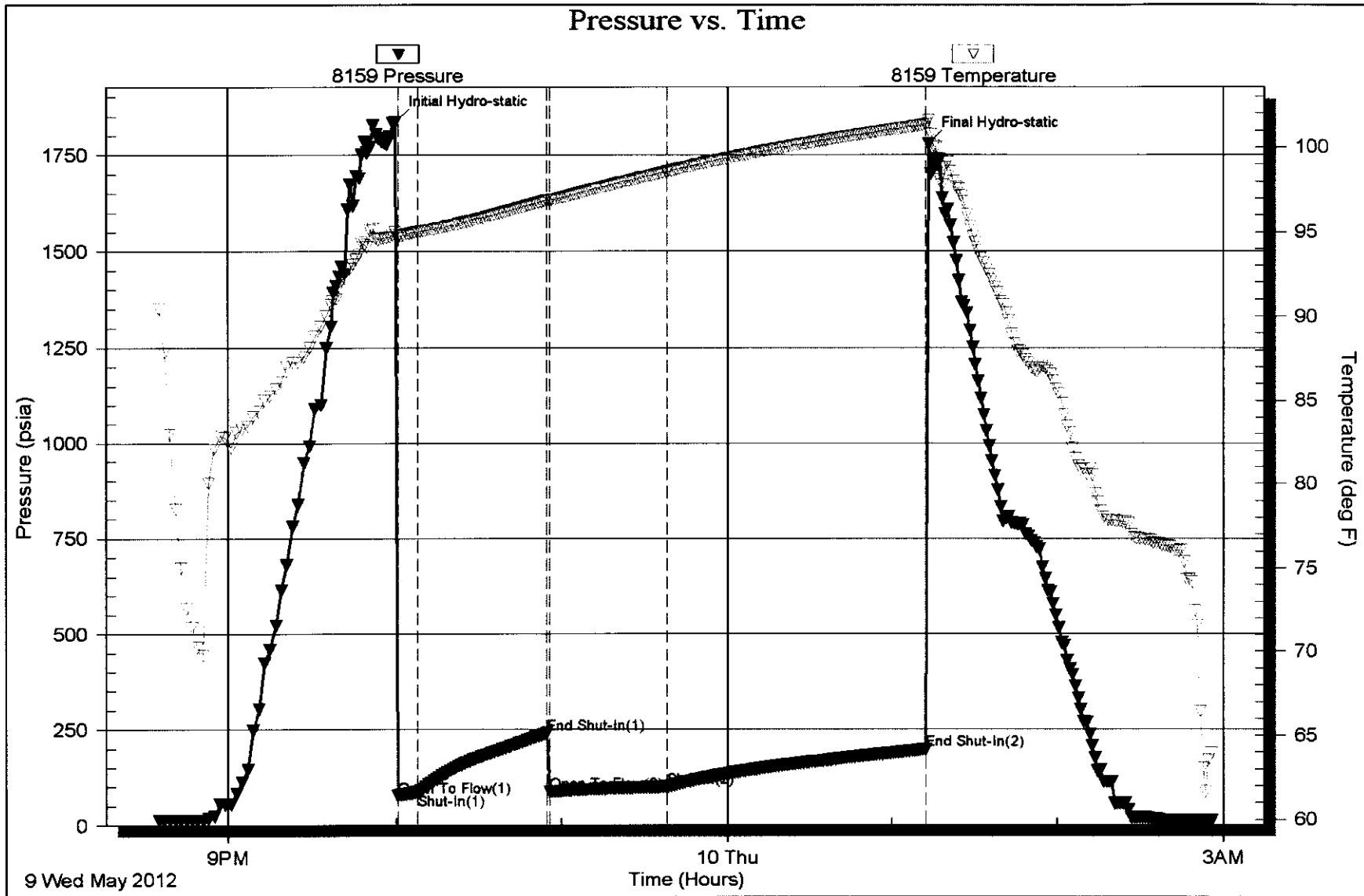
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9300.00 ppm			
Filter Cake: 1.00 inches			

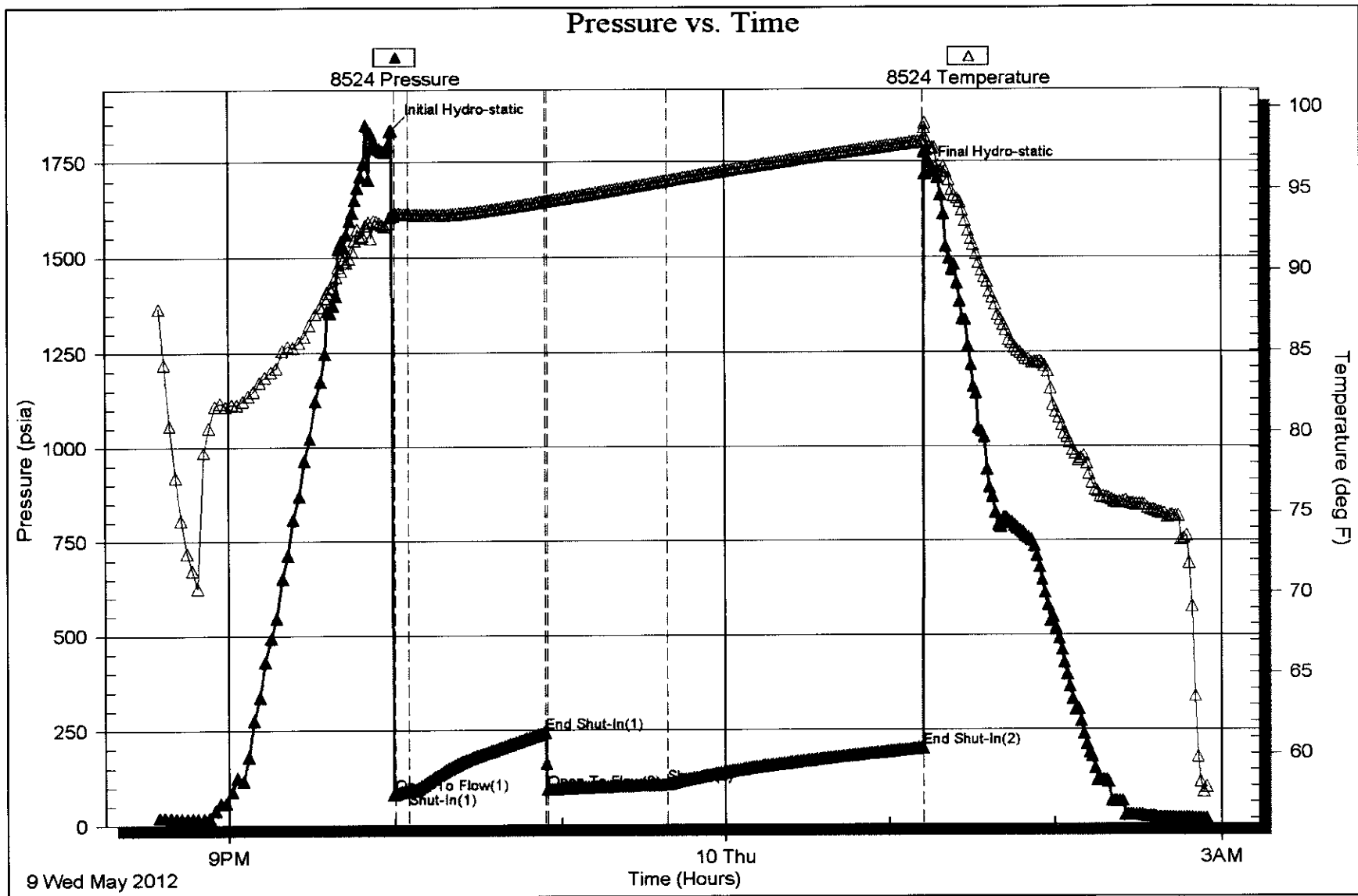
Recovery Information

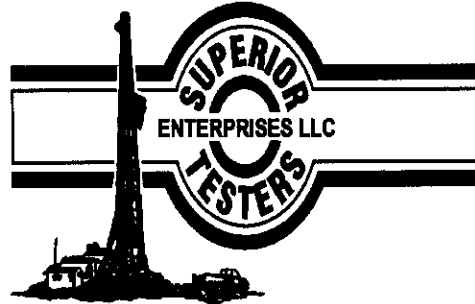
Recovery Table

Length ft	Description	Volume bbl
90.00	Muddy oil 20%Oil 80%Mud	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

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

ATTN: Derek Patterson

Helmers#1-1

1-22s-12w Stafford

Start Date: 2012.05.10 @ 20:45:00

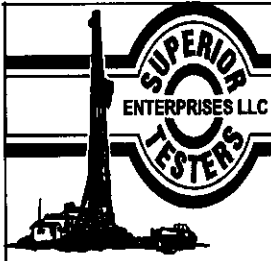
End Date: 2012.05.11 @ 04:09:00

Job Ticket #: 17140 DST #: 5

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

Printed: 2012.05.11 @ 05:12:15

Valhalla Exploration L.L.C 1-22s-12w Stafford Helmers#1-1 DST # 5 Viola 2012.05.10



DRILL STEM TEST REPORT

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

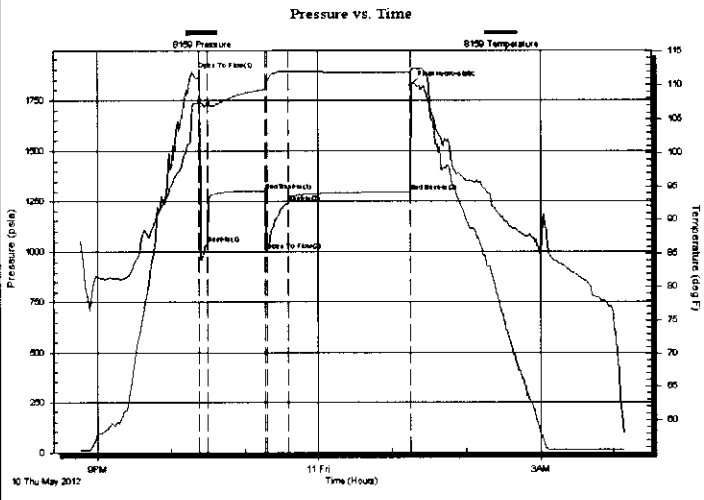
1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17140 **DST#: 5**
 Test Start: 2012.05.10 @ 20:45:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 22:23:00
 Time Test Ended: 04:09:00
 Test Type: Conventional Straddle (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-50
 Interval: **3460.00 ft (KB) To 3528.00 ft (KB) (TVD)** Reference Elevations: 1814.00 ft (KB)
 Total Depth: 3711.00 ft (KB) (TVD) 1807.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8159 **Inside**
 Press@RunDepth: 1239.72 psia @ 3534.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.10 End Date: 2012.05.11 Last Calib.: 2012.05.11
 Start Time: 20:45:00 End Time: 04:09:00 Time On Btm:
 Time Off Btm: 2012.05.11 @ 01:15:30

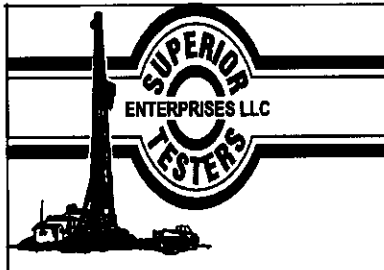
TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1898.60	107.38	Open To Flow (1)
7	1037.15	107.77	Shut-In(1)
54	1304.59	109.41	End Shut-In(1)
55	1005.82	110.12	Open To Flow (2)
73	1239.72	112.06	Shut-In(2)
172	1298.40	111.93	End Shut-In(2)
173	1823.16	112.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2640.00	muddy water 30% mud 70% water	35.94
0.00	Chlorides 25,000	0.00
0.00	Resistivity .3 @ 65 degrees	0.00

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



DRILL STEM TEST REPORT

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

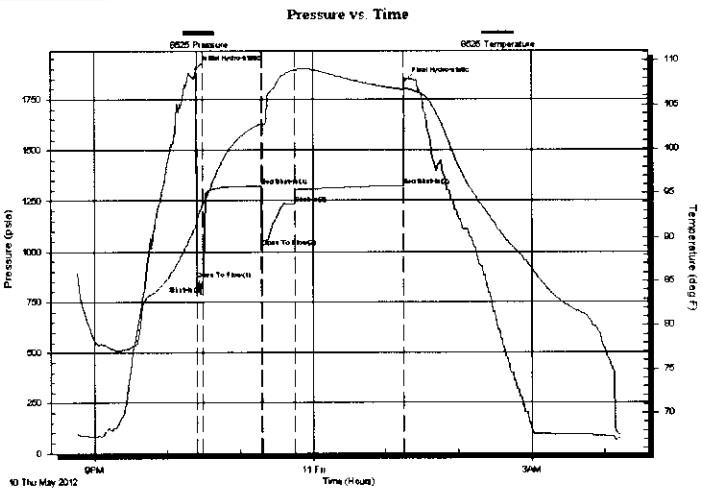
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17140 **DST#: 5**
 Test Start: 2012.05.10 @ 20:45:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:23:00
 Time Test Ended: 04:09:00
 Interval: **3460.00 ft (KB) To 3528.00 ft (KB) (TVD)**
 Total Depth: 3711.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-50
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8525 Outside
 Press@RunDepth: 1323.13 psia @ 3527.25 ft (KB) Capacity: psia
 Start Date: 2012.05.10 End Date: 2012.05.11 Last Calib.: 1899.12.30
 Start Time: 20:45:00 End Time: 04:14:00 Time On Btm: 2012.05.10 @ 22:24:00
 Time Off Btm: 2012.05.11 @ 01:16:00

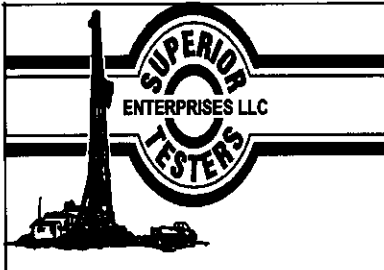
TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1899.69	91.42	Initial Hydro-static
1	863.02	91.94	Open To Flow (1)
6	832.05	93.60	Shut-In(1)
54	1323.75	102.78	End Shut-In(1)
55	1023.80	102.74	Open To Flow (2)
81	1232.27	108.93	Shut-In(2)
171	1323.13	106.69	End Shut-In(2)
172	1839.50	106.79	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2640.00	muddy water 30% mud 70% water	35.94
0.00	Chlorides 25,000	0.00
0.00	Resistivity .3 @ 85 degrees	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17140 **DST#: 5**
 Test Start: 2012.05.10 @ 20:45:00

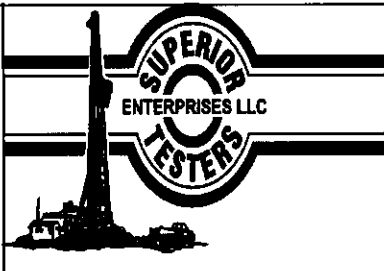
Tool Information

Drill Pipe:	Length: 3342.00 ft	Diameter: 3.80 inches	Volume: 46.88 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3460.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	3528.00 ft			
Interval between Packers:	68.00 ft			
Tool Length:	286.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3437.00	
Hydrolic Tool	5.00			3442.00	
Jars	6.00			3448.00	
Safety Joint	2.00			3450.00	
Packer	5.00			3455.00	28.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Anchor	66.50			3526.50	
Change Over Sub	0.75			3527.25	
Recorder	0.00	8525	Outside	3527.25	
blank off Sub	0.75		Outside	3528.00	68.00 Tool Interval
Packer	5.00			3533.00	
Recorder	1.00	8159	Inside	3534.00	
Recorder	1.00		Outside	3535.00	
tail pipe	183.00			3718.00	190.00 Bottom Packers & Anchor

Total Tool Length: 286.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-22s-12w Stafford
Helmers#1-1
 Job Ticket: 17140 **DST#: 5**
 Test Start: 2012.05.10 @ 20:45:00

Mud and Cushion Information

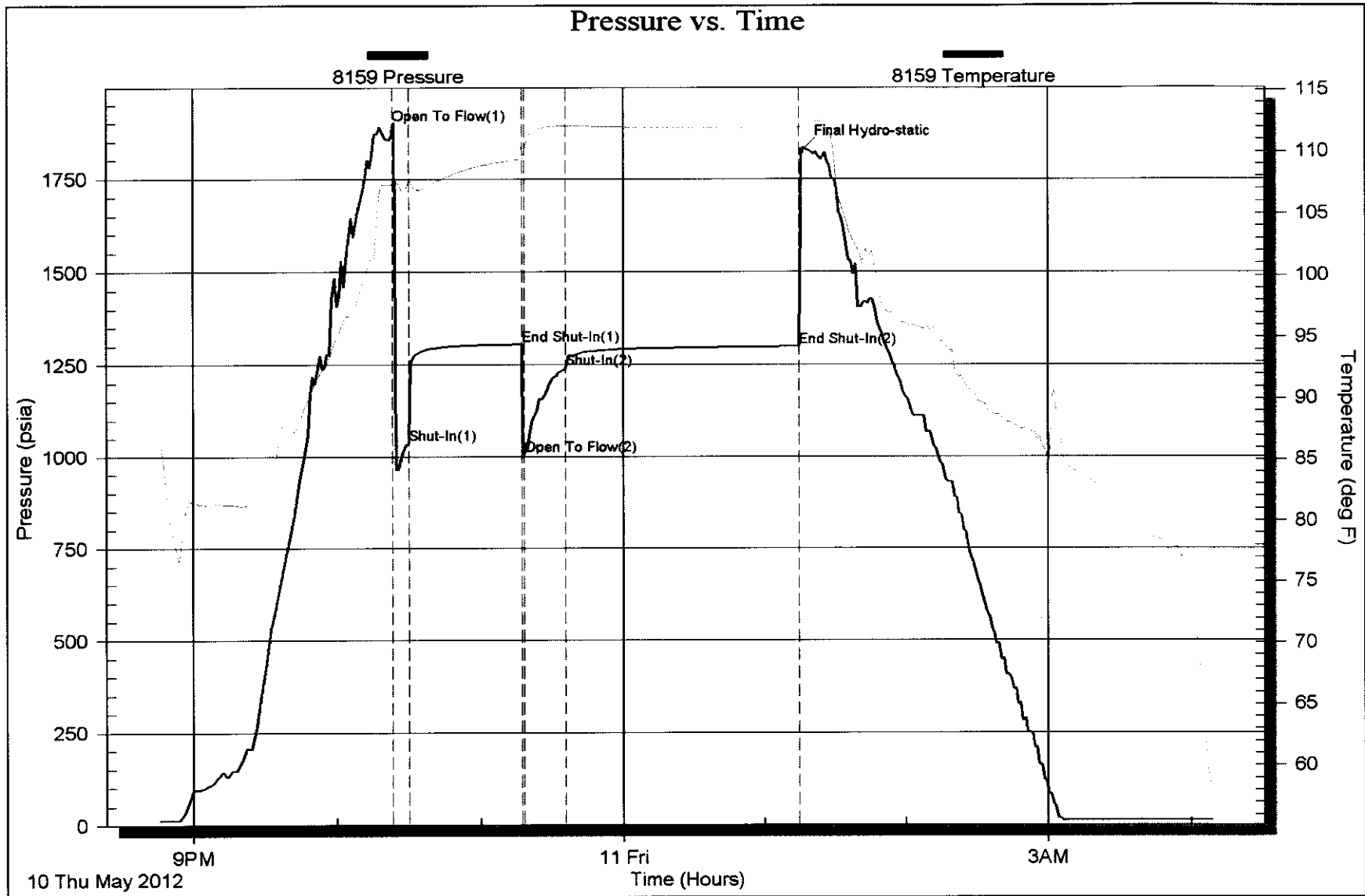
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9300.00 ppm			
Filter Cake: 1.00 inches			

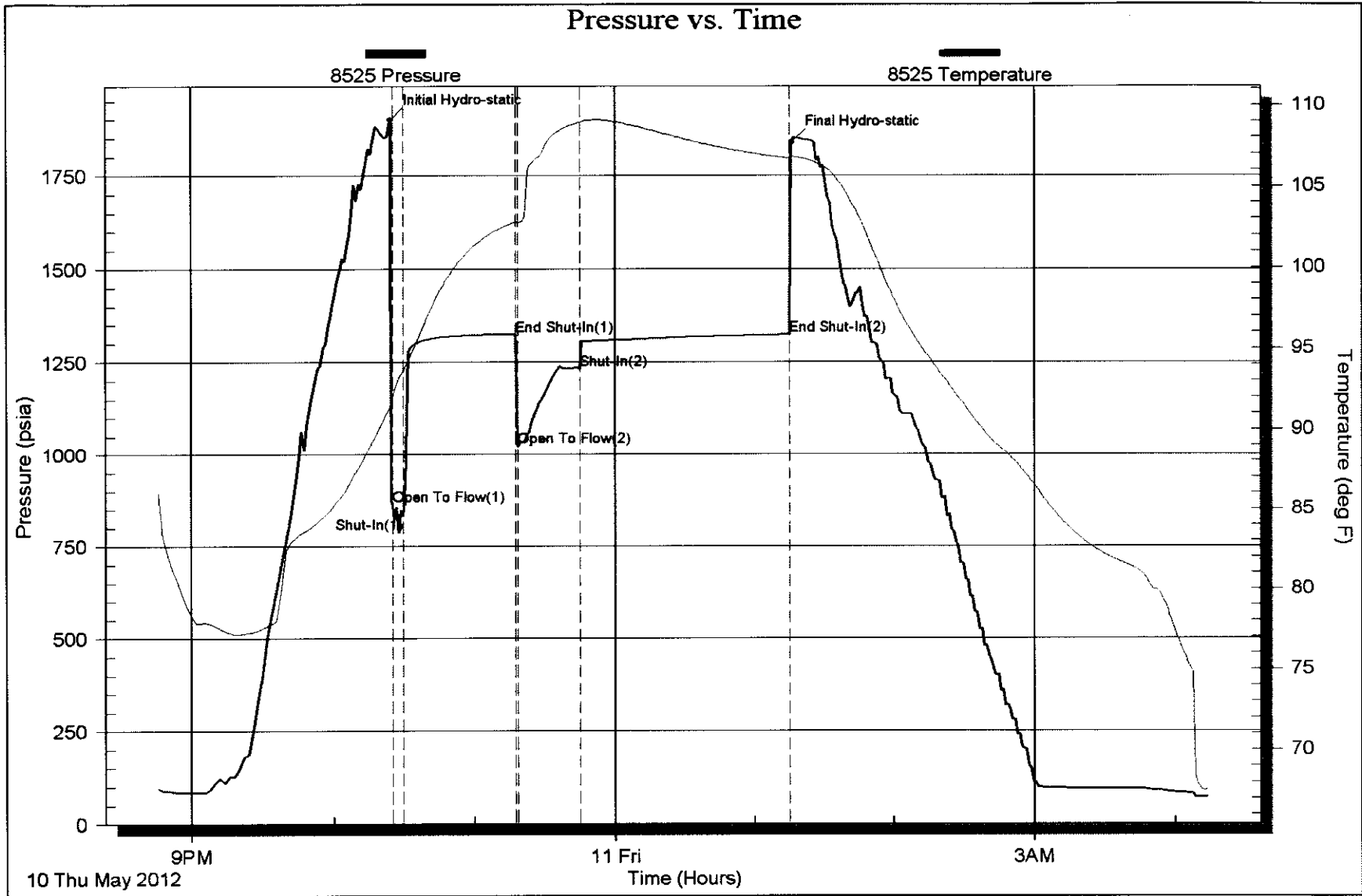
Recovery Information

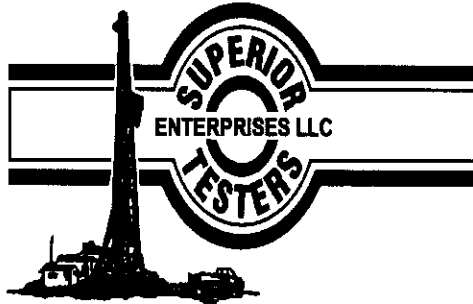
Recovery Table

Length ft	Description	Volume bbl
2640.00	muddy water 30% mud 70% water	35.939
0.00	Chlorides 25,000	0.000
0.00	Resistivity .3 @ 65 degrees	0.000

Total Length: 2640.00 ft Total Volume: 35.939 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

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

ATTN: Derek Patterson

Helmrs#1-1

1-22s-12w Stafford

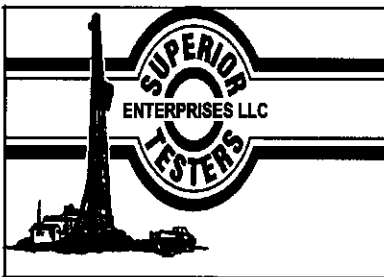
Start Date: 2012.05.11 @ 08:45:00

End Date: 2012.05.11 @ 15:04:00

Job Ticket #: 17141 DST #: 6

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

Printed: 2012.05.11 @ 15:05:52



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17141 **DST#: 6**
 Test Start: 2012.05.11 @ 08:45:00

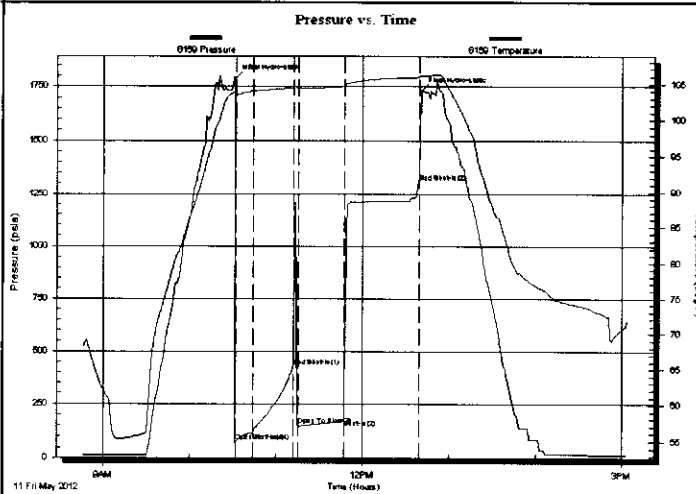
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:32:00
 Time Test Ended: 15:04:00
 Interval: **3440.00 ft (KB) To 3504.00 ft (KB) (TVD)**
 Total Depth: 3693.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition:
 Test Type: Conventional Straddle (Initial)
 Tester: Jared Scheck
 Unit No: 3320-GB-50
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 177.47 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.11 End Date: 2012.05.11 Last Calib.: 2012.05.11
 Start Time: 08:45:00 End Time: 15:04:00 Time On Btm: 2012.05.11 @ 10:31:00
 Time Off Btm: 2012.05.11 @ 12:40:30

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built 6 inches
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 minutes-Fair blow built bottom of bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

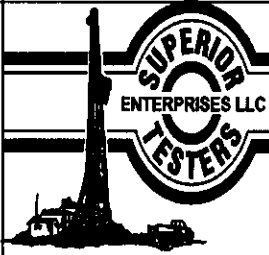
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1789.63	103.94	Initial Hydro-static
1	75.07	103.46	Open To Flow (1)
13	114.39	104.00	Shut-In(1)
41	429.19	104.43	End Shut-In(1)
44	149.86	104.38	Open To Flow (2)
76	177.47	104.64	Shut-In(2)
128	1306.68	105.96	End Shut-In(2)
130	1730.03	106.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	muddy oil cut gas 40%gas 10%oil 50%	2.27
0.00	240 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17141 **DST#: 6**
 Test Start: 2012.05.11 @ 08:45:00

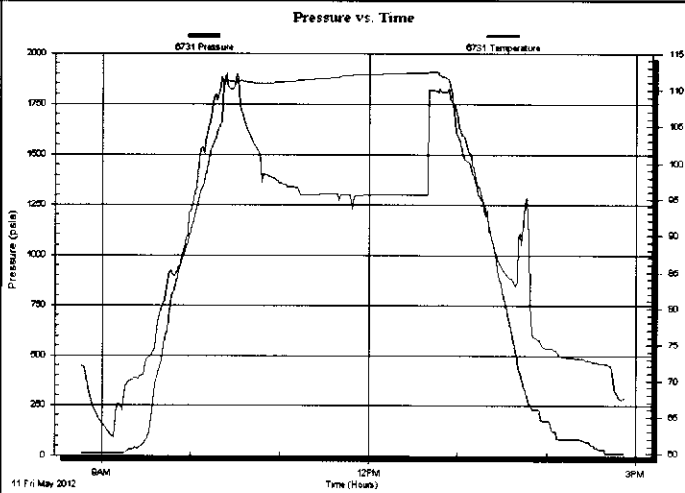
GENERAL INFORMATION:

Formation: Viola	Test Type: Conventional Straddle (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Jared Scheck
Time Tool Opened: 10:32:00	Unit No: 3320-GB-50
Time Test Ended: 15:04:00	Reference Elevations: 1814.00 ft (KB)
Interval: 3440.00 ft (KB) To 3504.00 ft (KB) (TVD)	1807.00 ft (CF)
Total Depth: 3693.00 ft (KB) (TVD)	KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Hole Condition:

Serial #: 6731

Press@RunDepth: psia @ ft (KB)	Capacity: 5000.00 psia
Start Date: 2012.05.11 End Date: 2012.05.11	Last Calib.: 2012.05.11
Start Time: 08:45:00 End Time: 14:53:00	Time On Btm:
	Time Off Btm:

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built 6 inches
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 minutes-Fair blow built bottom of bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

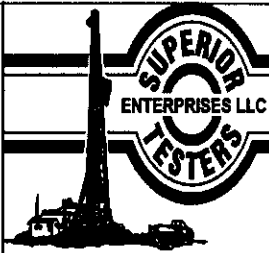
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
240.00	muddy oil cut gas 40%gas 10%oil 50%	2.27
0.00	240 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17141 **DST#: 6**
 Test Start: 2012.05.11 @ 08:45:00

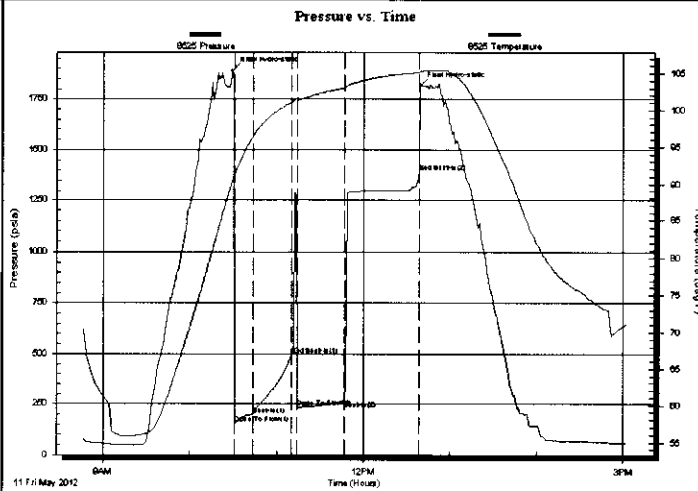
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Straddle (Initial)**
 Time Tool Opened: **10:32:00** Tester: **Jared Scheck**
 Time Test Ended: **15:04:00** Unit No: **3320-GB-50**
 Interval: **3440.00 ft (KB) To 3504.00 ft (KB) (TVD)** Reference Elevations: **1814.00 ft (KB)**
 Total Depth: **3693.00 ft (KB) (TVD)** **1807.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **KB to GR/CF: 7.00 ft**

Serial #: 8525

Press@RunDepth: **1393.35 psia @ ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2012.05.11** End Date: **2012.05.11** Last Calib.: **2012.05.11**
 Start Time: **08:45:00** End Time: **15:03:00** Time On Btm: **2012.05.11 @ 10:29:30**
 Time Off Btm: **2012.05.11 @ 12:39:30**

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built 6 inches
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 minutes-Fair blow built bottom of bucket in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

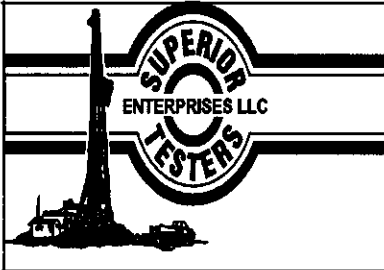
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1890.75	90.62	Initial Hydro-static
2	151.72	91.24	Open To Flow (1)
14	197.52	96.39	Shut-in(1)
41	494.39	101.03	End Shut-in(1)
45	234.63	101.35	Open To Flow (2)
77	264.50	103.01	Shut-in(2)
129	1393.35	105.16	End Shut-in(2)
130	1816.83	105.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	muddy oil cut gas 40%gas 10%oil 50%	2.27
0.00	240 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17141 **DST#: 6**
 Test Start: 2012.05.11 @ 08:45:00

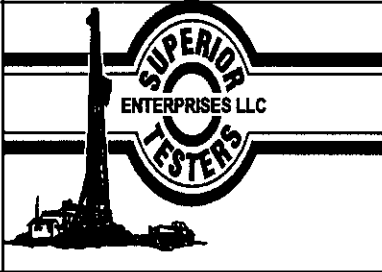
Tool Information

Drill Pipe:	Length: 3310.00 ft	Diameter: 3.80 inches	Volume: 46.43 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 47.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3440.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	3504.00 ft				
Interval between Packers:	64.00 ft				
Tool Length:	286.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Tool hit bridge 18 feet off bottom open tool did not get to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3417.00	
Hydraulic Tool	5.00			3422.00	
Jars	6.00			3428.00	
Safety Joint	2.00			3430.00	
Packer	5.00			3435.00	28.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Anchor	31.50			3471.50	
Change Over Sub	0.75			3472.25	
Drill Pipe	31.00		Outside	3503.25	
Change Over Sub	0.75		Outside	3504.00	64.00 Tool Interval
Packer	5.00			3509.00	
tail pipe	184.00			3693.00	
Recorder	1.00		Inside	3694.00	
Recorder	1.00		Outside	3695.00	
Bullnose	3.00			3698.00	194.00 Bottom Packers & Anchor

Total Tool Length: 286.00



DRILL STEM TEST REPORT

FLUID SUMMARY

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

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17141 **DST#: 6**
 Test Start: 2012.05.11 @ 08:45:00

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: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	muddy oil cut gas 40%gas 10%oil 50%mud	2.273
0.00	240 gas in pipe	0.000

Total Length: 240.00 ft Total Volume: bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

