



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1098008

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

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

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

| | | | | | |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

| | | |
|---|--|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|---|--|--|



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 | | <i>SubTotal:</i> \$ 8,956.31 |
| | <i>Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:</i> | \$ (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 |
| | Amount Due: | \$ 7,996.96 |
| | Applied Payments: | |
| | Balance Due: | \$ 7,996.96 |

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

7.30% Stafford County Sales Tax

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 408

Date 5-3-12 Sec. 1 Twp. 22 Range 12 County Stafford State Ks On Location _____ Finish 3:30AM

Lease Helmets Well No. 1-1 Location Ike + Joe's - 1 E, 3/8 N, w/Into

Contractor Southwind #4 Owner _____

Type Job Surface To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 582' Charge To Ualhalla Exploration, LLC

Csg. 8 5/8" Depth 582' Street _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____

Cement Left in Csg. 28.16' Shoe Joint 28.16' The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line _____ Displace 354 BLS Cement Amount Ordered 4505x 60140 30% CC 2% Gel

EQUIPMENT

Pumptrk 9 No. 9 Cementer Matt Common 270

Bulktrk 13 No. 13 Driver Lonnie Poz. Mix 180

Bulktrk p.m. No. p.m. Driver Rick Gel. 8

JOB SERVICES & REMARKS

Remarks: Cement did Circulate Calcium 17

Rat Hole _____ Hulls _____

Mouse Hole _____ Salt _____

Centralizers _____ Flowseal 225 #

Baskets _____ Kol-Seal _____

D/V or Port Collar _____ 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" (Blue)" | 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 | | |



BASICSM
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: 5-12-12 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: Helmers WELL NO. 1-1 | | | | | | | | |
| ADDRESS: | | COUNTY: Stafford STATE: KS | | | | | | | | |
| CITY: STATE: | | SERVICE CREW: Orlando, Marguez, Blaszi | | | | | | | | |
| AUTHORIZED BY: | | JOB TYPE: CNW - 5 1/2 L.S. | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME |
| 27283 | 1 | | | | | | 5-11-12 | | | 6:00 |
| 19959-19843 | 1 | | | | | | | | | 8:30 |
| 19831-19862 | 1 | | | | | | 5-12-12 | | | 12:00 |
| | | | | | | | 5-12-12 | | | 12:45 |
| | | | | | | | 5-12-12 | | | 12:45 |
| | | | | | | | | | | |
| | | | | | | MILES FROM STATION TO WELL | | | | 45 |

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 po2 | Sk | 125 | | 1375 00 |
| CP103 | 60/40 po2 | Sk | 80 | | 960 00 |
| CC102 | Celloflake | Lb | 32 | | 118 40 |
| CC113 | Gypsum | Lb | 525 | | 393 75 |
| CC129 | FLA-322 | Lb | 53 | | 397 50 |
| CC201 | Gilsonite | Lb | 625 | | 418 75 |
| C700 | KCL | Lb | 288 | | 432 00 |
| CF607 | Latch Down Plug + Baffle 5 1/4 | ea | 1 | | 400 00 |
| CF1251 | Auto Kill float shoe 5 1/4 | ea | 1 | | 360 00 |
| CF1681 | Turbolizer 5 1/4 | ea | 8 | | 880 00 |
| CF1989 | Basket 5 1/4 | ea | 1 | | 290 00 |
| C704 | KCL | Gal | 4 | | 140 00 |
| CC151 | Mud Plug | gal | 500 | | 4300 00 |
| E100 | Pickup mileage | mi | 45 | | 191 25 |
| E101 | Heavy Equipment mileage | mi | 90 | | 630 00 |
| E113 | Bulk Delivery | Tm | 392 | | 626 40 |
| CE204 | Depth Charge 3001-4000' | ea | 1 | | 2160 00 |
| CE240 | Blending & mixing | Sk | 205 | | 287 00 |
| CE504 | Plug Container | ea | 1 | | 250 00 |
| S003 | Service Supervisor | ea | 1 | | 175 00 |
| SUB TOTAL | | | | | 8732 04 |
| DLS | | | | | |
| SERVICE & EQUIPMENT | | | | %TAX ON \$ | |
| MATERIALS | | | | %TAX ON \$ | |
| TOTAL | | | | | |

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

| | |
|---|--|
| SERVICE REPRESENTATIVE: Steve Orlando | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Robert Stevenson |
| (WELL OWNER OPERATOR CONTRACTOR OR AGENT) | |

FIELD SERVICE ORDER NO.



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 | | DISTRICT | | NEW WELL <input type="checkbox"/> | | OLD WELL <input type="checkbox"/> | | PROD <input type="checkbox"/> | | INJ <input type="checkbox"/> | | WDW <input type="checkbox"/> | | CUSTOMER ORDER NO.: | |
| CUSTOMER | | | | LEASE | | | | WELL NO. | | | | | | | |
| ADDRESS | | | | COUNTY | | | | STATE | | | | | | | |
| CITY | | | | STATE | | | | SERVICE CREW | | | | | | | |
| AUTHORIZED BY | | | | JOB TYPE: | | | | | | | | | | | |
| EQUIPMENT# | HRS | EQUIPMENT# | HRS | EQUIPMENT# | HRS | TRUCK CALLED | DATE | AM | PM | TIME | | | | | |
| | | | | | | ARRIVED AT JOB | | | | | | | | | |
| 19952-19845 | | | | | | START OPERATION | | | | | | | | | |
| | | | | | | FINISH OPERATION | | | | | | | | | |
| | | | | | | RELEASED | | | | | | | | | |
| | | | | | | MILES FROM STATION TO WELL | | | | | | | | | |

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 |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| C2100 | ... | ... | 1 | ... | 1375.00 |
| C2100 | ... | ... | ... | ... | 960.00 |
| C2100 | ... | ... | 33 | ... | 1184.00 |
| C2100 | ... | ... | 525 | ... | 373.75 |
| C2100 | ... | ... | ... | ... | 377.50 |
| C2100 | ... | ... | ... | ... | 418.75 |
| C2100 | ... | ... | ... | ... | 432.00 |
| C2100 | ... | ... | 1 | ... | 400.00 |
| C2100 | ... | ... | 1 | ... | 360.00 |
| C2100 | ... | ... | ... | ... | 880.00 |
| C2100 | ... | ... | ... | ... | 270.00 |
| C2100 | ... | ... | ... | ... | 140.00 |
| C2100 | ... | ... | ... | ... | 430.00 |
| C2100 | ... | ... | ... | ... | 191.25 |
| C2100 | ... | ... | ... | ... | 630.00 |
| C2100 | ... | ... | ... | ... | 626.40 |
| C2100 | ... | ... | 1 | ... | 2160.00 |
| C2100 | ... | ... | ... | ... | 287.00 |
| C2100 | ... | ... | 1 | ... | 350.00 |
| SUB TOTAL | | | | | 175.00 |

| CHEMICAL / ACID DATA: | | | |
|-----------------------|--|--|--|
| | | | |
| | | | |
| | | | |

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

| | |
|-------------------------|---|
| SERVICE REPRESENTATIVE | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Robert [Signature]</u> |
| FIELD SERVICE ORDER NO. | (WELL OWNER OPERATOR CONTRACTOR OR AGENT) |

| | | | | | |
|---------------------------------|------------------|------------------------------|-------|---------------------|-------------|
| Customer Valhalla Explorator | Lease No. | Date 5-12-13 | | | |
| Lease Halmers | Well # 1-1 | | | | |
| Field Order # 6011 | Station Pinti | Casing 5 1/2" | Depth | County St. Louis | State KS |
| Type Job CNW 5/12/13 | Formation | Legal Description 1.00-13 | | | |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------------|-----------------------|------------------|----|--------------------|--|------------------|-------|------------------|
| Casing Size 5 1/2" | Tubing Size 5 1/2" | Shots/Ft 1255 | | Acid 50/50 POZ | | RATE | PRESS | ISIP |
| Depth 5206 | Depth | From | To | Pre Pad 1.354:6 | | Max | | 5 Min. |
| Volume 880 | Volume | From | To | Pad | | Min | | 10 Min. |
| Max Press 1200 | Max Press | From | To | Frac 60/40 POZ | | Avg | | 15 Min. |
| Well Connection | Annulus Vol. | From | To | 1.264:10 | | HHP Used | | Annulus Pressure |
| Plug Depth 5206 | Packer Depth | From | To | Flush 87.7 | | Gas Volume | | Total Load |

| | | |
|--|-------------------------------|--------------------------|
| Customer Representative Kelly Bingham | Station Manager Dave Scott | Treater Steve Orlando |
|--|-------------------------------|--------------------------|

| | | | | | | | | | |
|---------------|---------|---------|-------|-------|-------|--|--|--|--|
| Service Units | 07283 | 19959 | 19843 | 19831 | 19862 | | | | |
| Driver Names | Orlando | Marguez | Blasi | | | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|---------|-----------------|-----------------|--------------|------|--------------------------------|
| 8:30 PM | | | | | On location - Safety Meeting |
| | | | | | Run 89 Jts 5 1/2" 15.5" Csg |
| | | | | | Centralize 1-3-5-7-9-11-13-15 |
| | | | | | Basket on p. #3 collar #2 |
| | | | | | Casing on Bottom Break circled |
| 10:15 | 300 | | 12 | 5 | Mod Slush |
| 10:17 | 300 | | 5 | 5 | H2O Spacer |
| 10:18 | 250 | | 12 | 5 | Mix 50% 60/40 POZ 13" / 2" |
| 10:20 | 250 | | 30 | 5 | Run 175 Jts 5 1/2" p. #11 |
| | | | | | Shot Down (long pump) |
| | | | | | Balance Plug |
| 10:30 | λ | | λ | 6 | Start H2O Displacement w 20000 |
| 10:36 | 300 | | 45 | 5 | K.C. Pressure |
| 10:43 | 500 | | 78 | 4 | Slow Rate |
| 10:45 | 1500 | | 88 | 4 | Plug Down - H2O |
| 2:15 PM | | | | | Plug Kit w 30% 60/40 POZ |
| | | | | | Sub Comp |
| | | | | | Trank. Stop |



| | | |
|-----------------|---------|--------------|
| 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 |

For Service Dates: 05/12/2012 to 05/12/2012

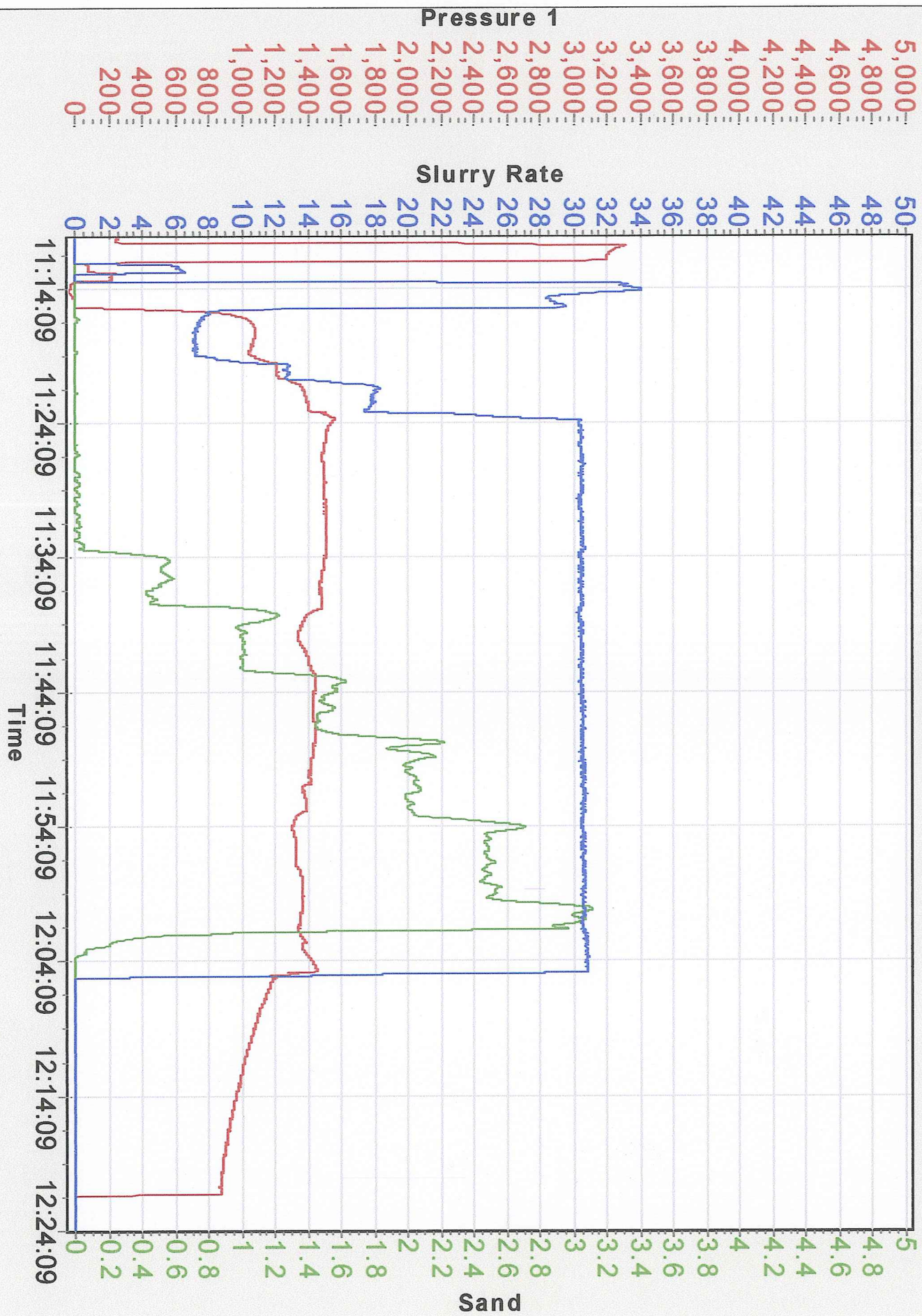
0040463275

171806141A Cement-New Well Casing/Pi 05/12/2012
 Cement 5 1/2" Longstring

| | QTY | U of M | UNIT PRICE | INVOICE AMOUNT |
|---|--------|--------|------------|----------------|
| 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" (Blue)" | 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 | | |

Valhalla Exploration Helmers #1-1





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



DRILL STEM TEST REPORT

Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17135

DST#: 1

ATTN: Derek Patterson

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

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

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 #: 8159

Press @ RunDepth: 40.82 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.05.07 End Date: 2012.05.07

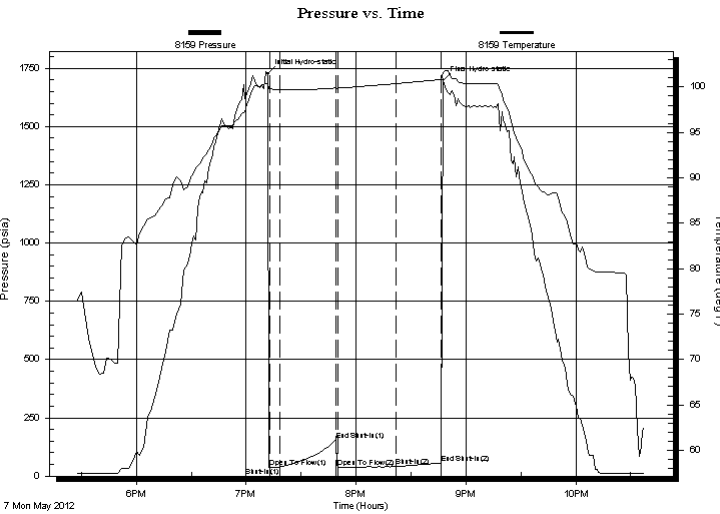
Last Calib.: 2012.05.07

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
Helmerts#1-1
 Job Ticket: 17135 **DST#: 1**
 Test Start: 2012.05.07 @ 17:27:00

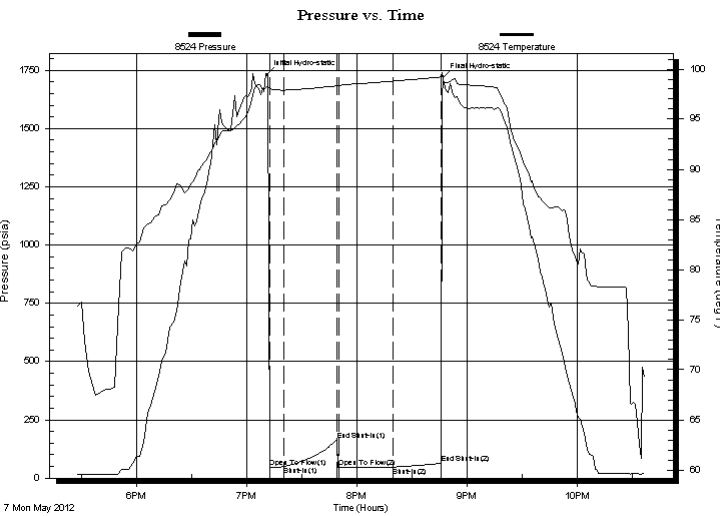
GENERAL INFORMATION:

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 #: 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

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: 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

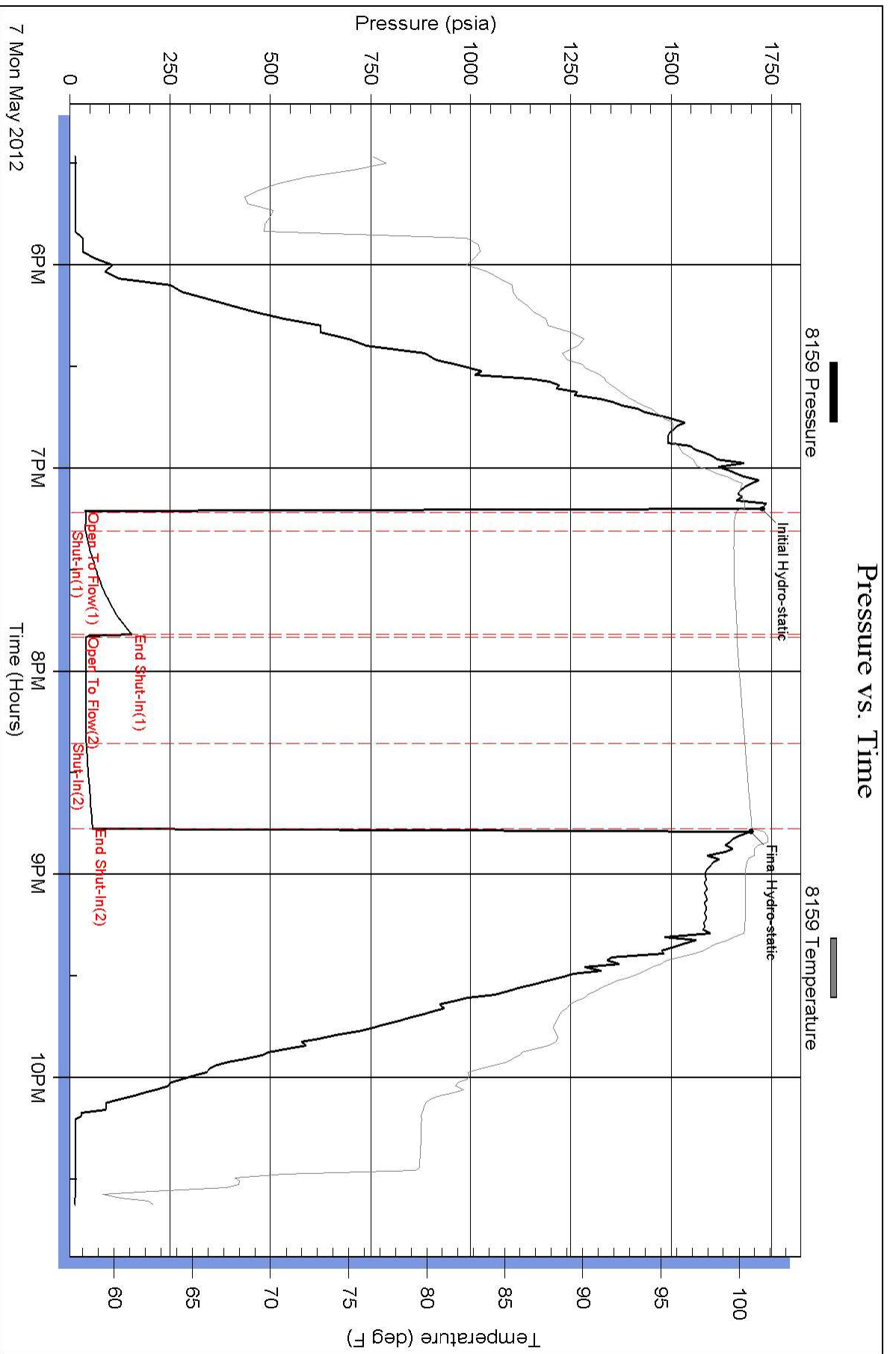
Num Gas Bombs: 0

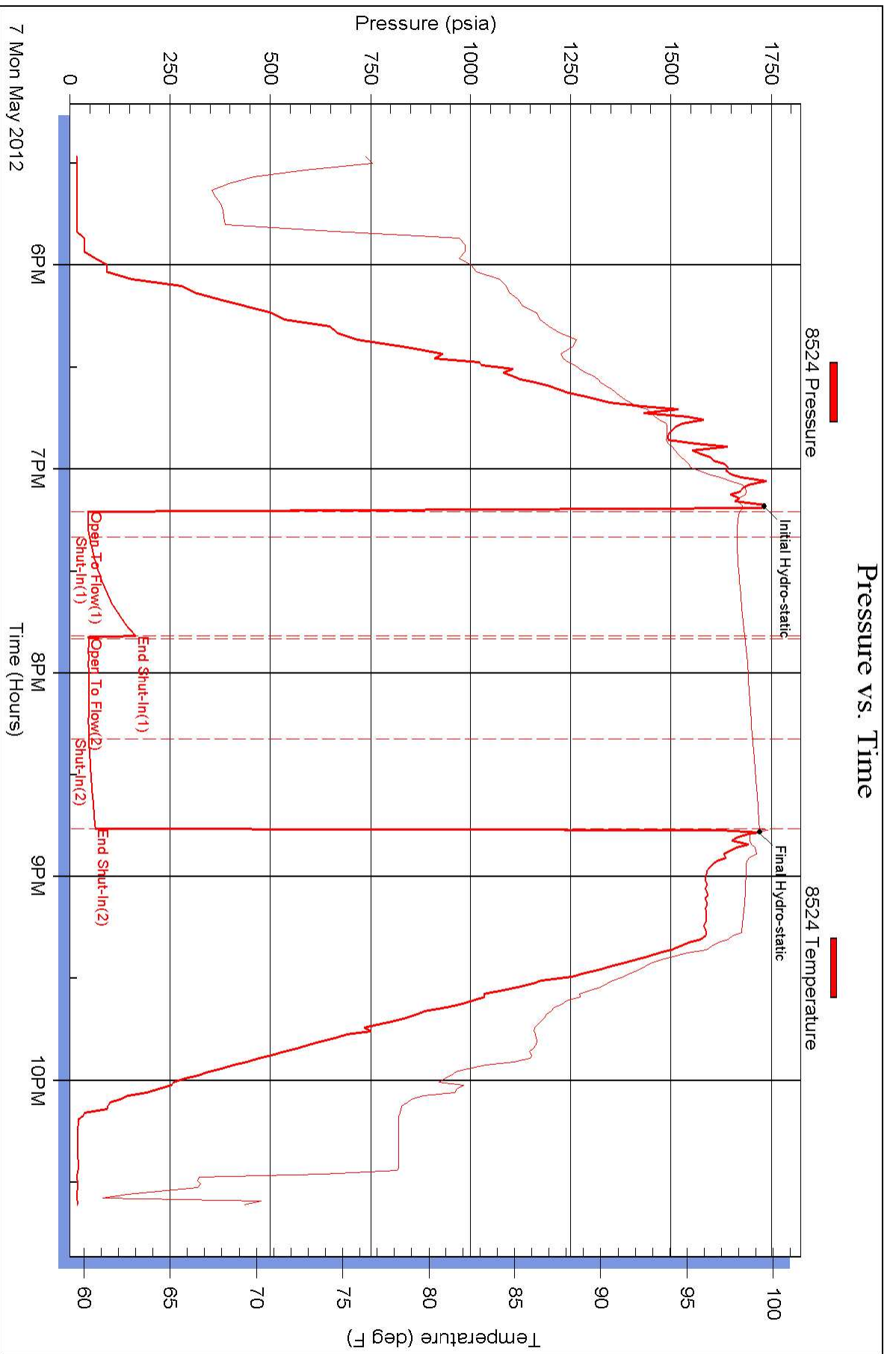
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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

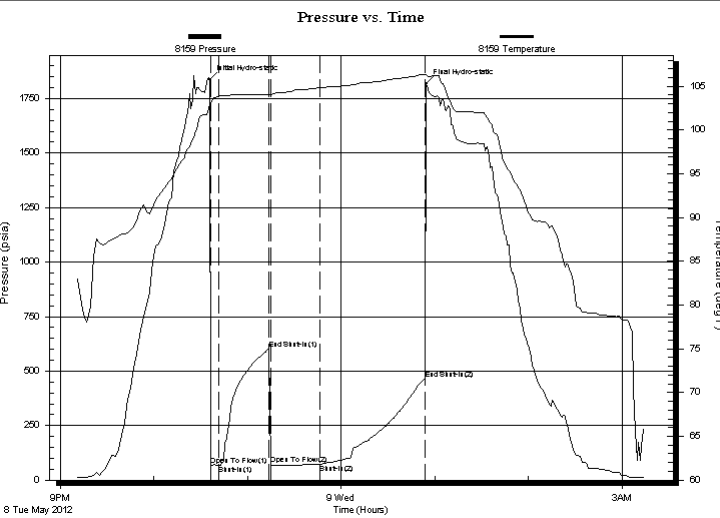
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17136 **DST#: 2**
 Test Start: 2012.05.08 @ 21:10:00

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 @ Run Depth: 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

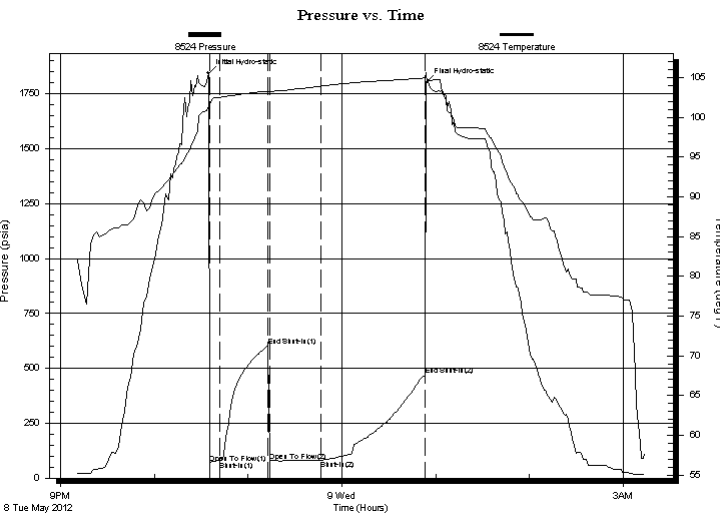
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17136 **DST#: 2**
 Test Start: 2012.05.08 @ 21:10:00

GENERAL INFORMATION:

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

Serial #: 8524 Outside
 Press @ Run Depth: 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
Helmers#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

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17136

DST#: 2

ATTN: Derek Patterson

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 in³

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

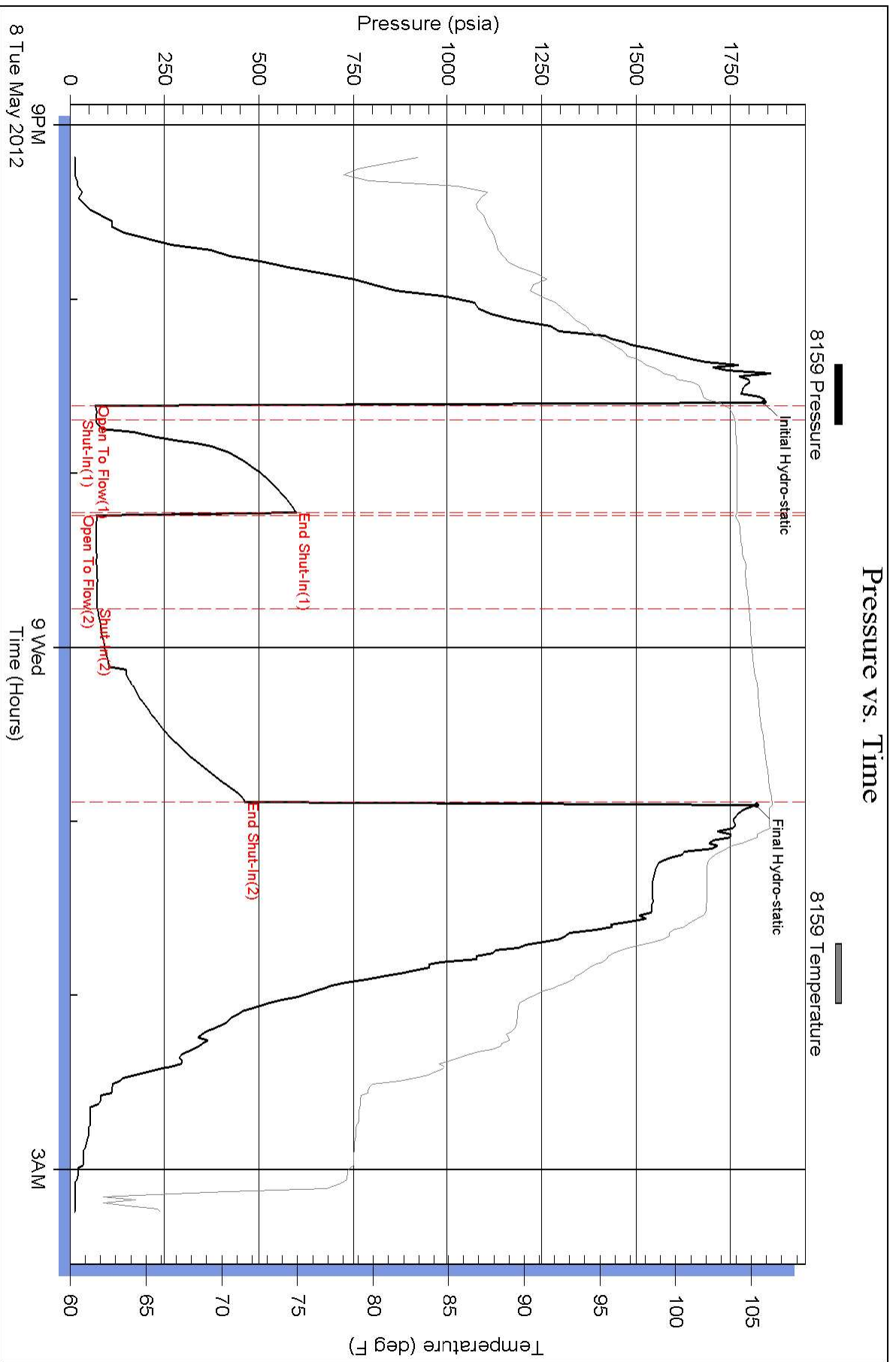
Serial #:

Laboratory Name:

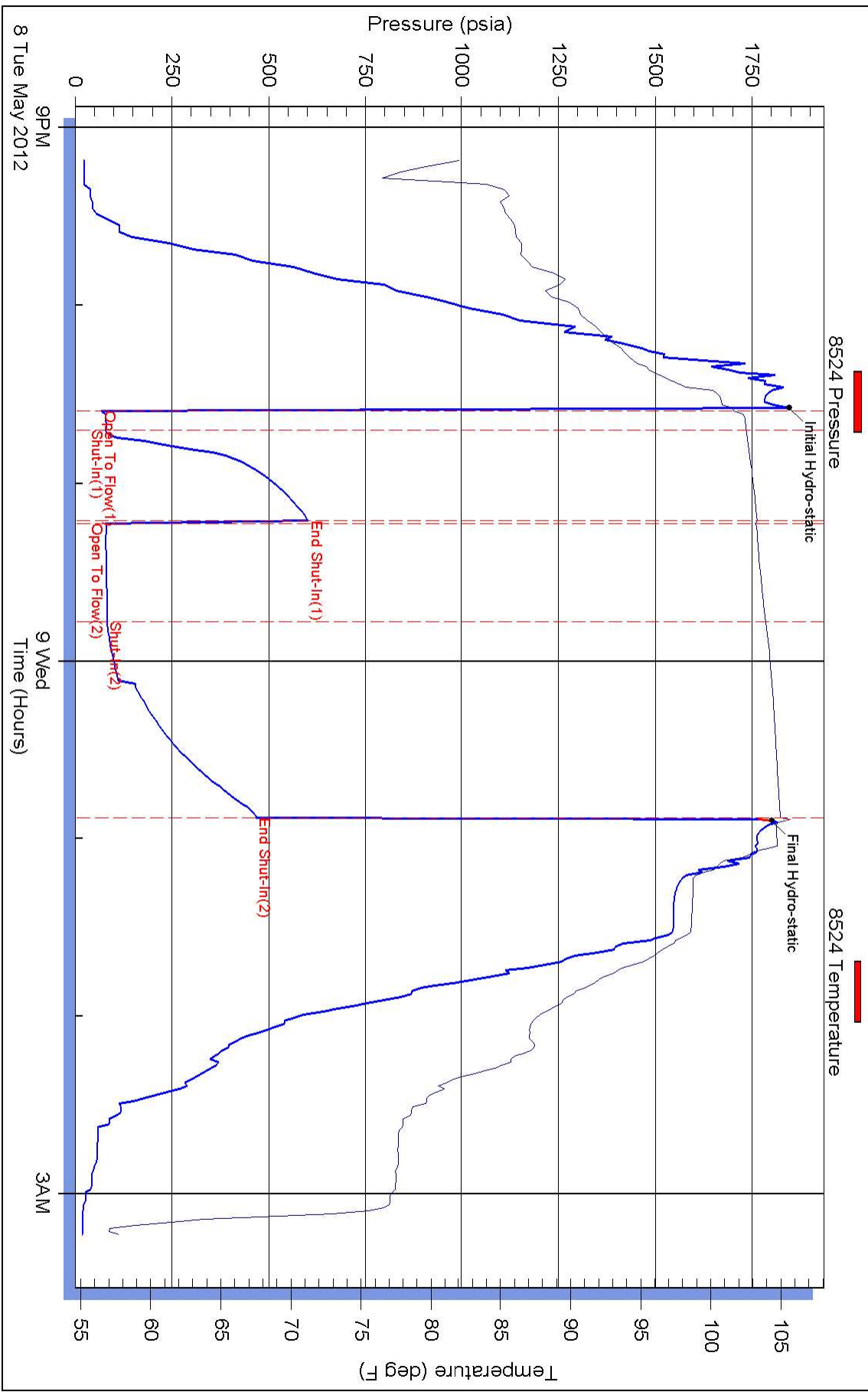
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





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

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: 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-InTool | 5.00 | | Inside | 3568.00 | |
| Hydraulic 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

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17137

DST#: 3

ATTN: Derek Patterson

Test Start: 2012.05.09 @ 09:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 9300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------|---------------|
| 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

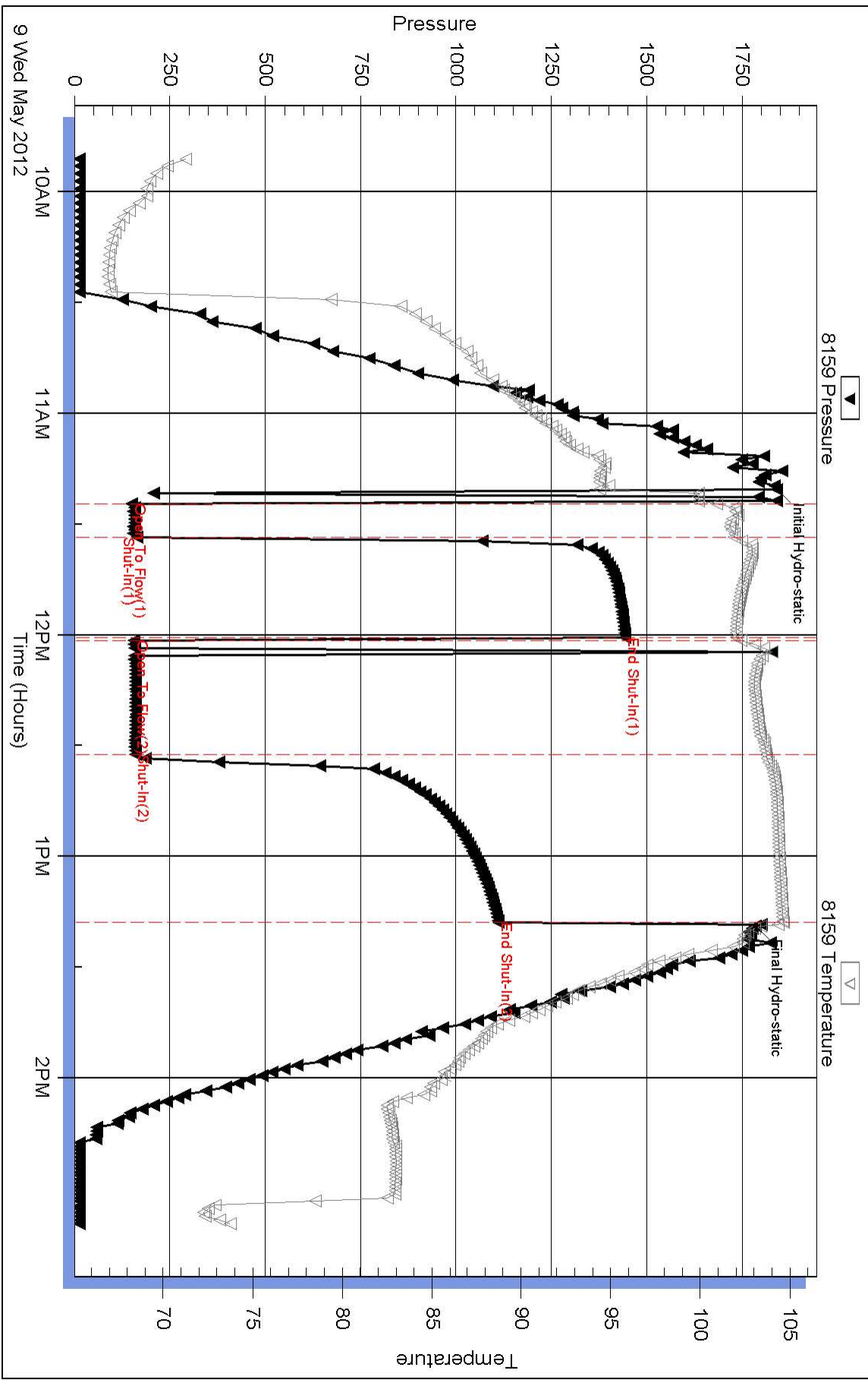
Serial #:

Laboratory Name:

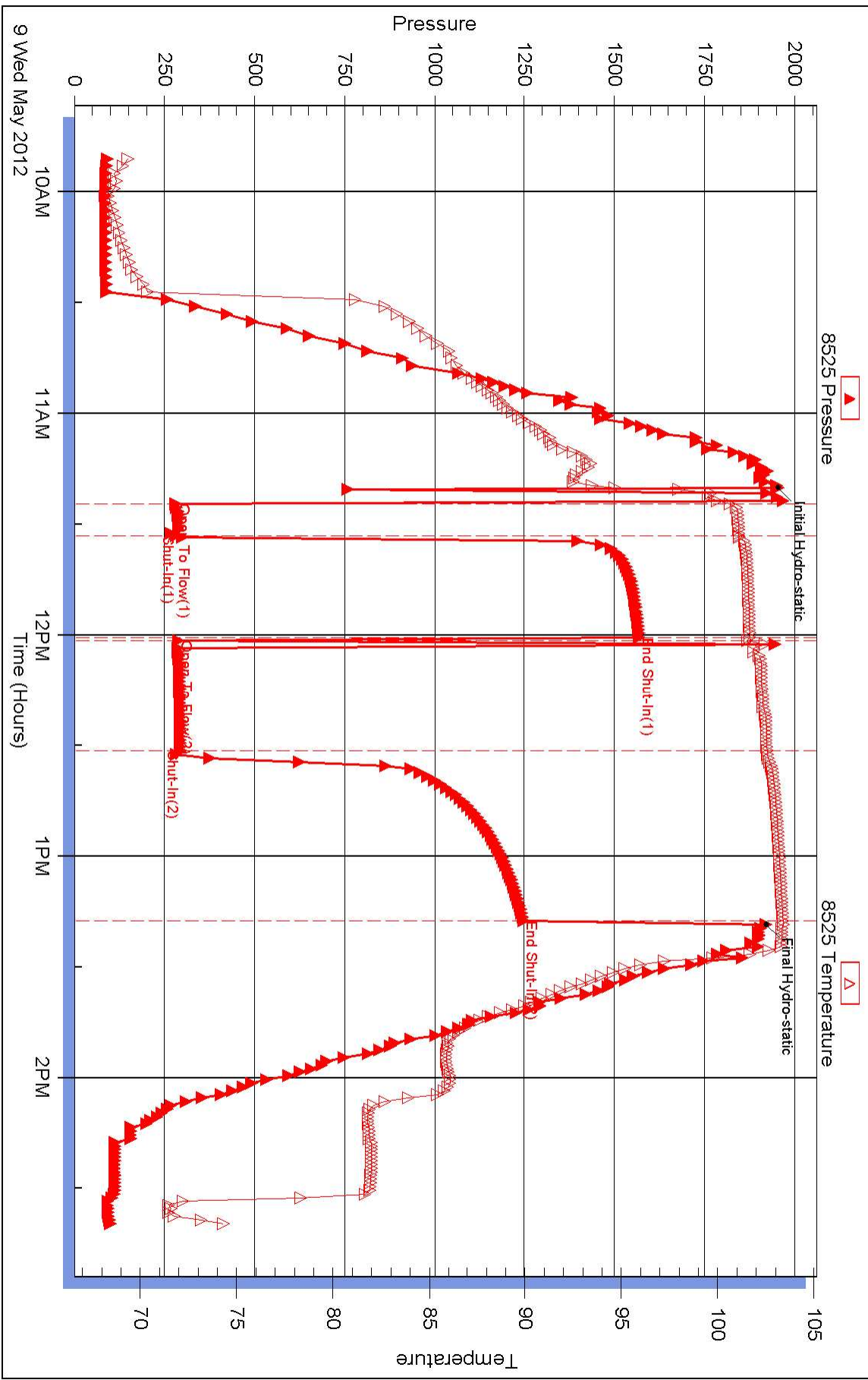
Laboratory Location:

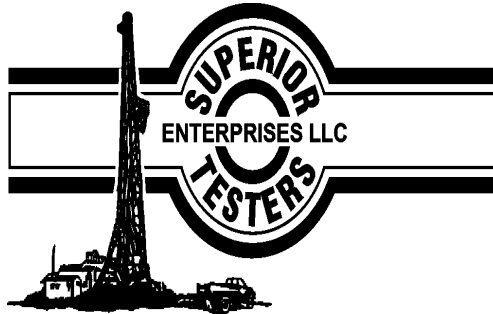
Recovery Comments:

Pressure vs. Time



Pressure vs. Time





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



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

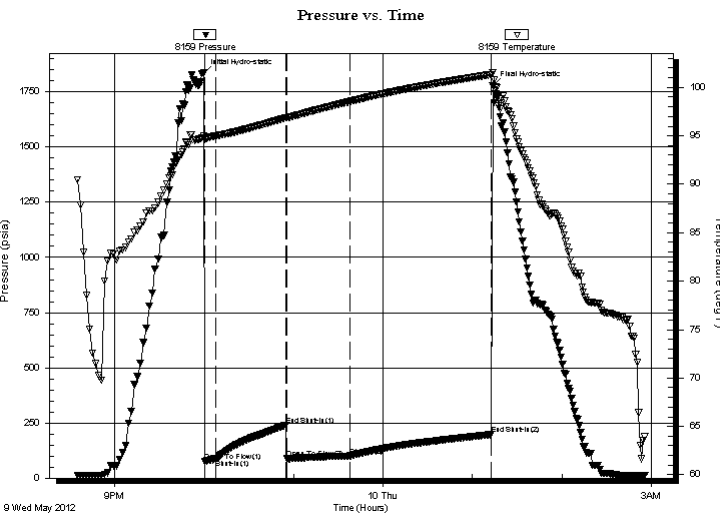
GENERAL INFORMATION:

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
Helmerts#1-1
 Job Ticket: 17138 **DST#: 4**
 Test Start: 2012.05.09 @ 20:00:00

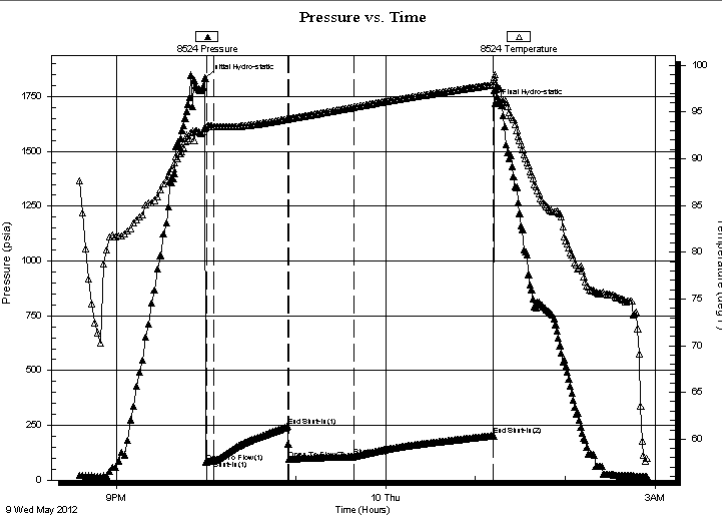
GENERAL INFORMATION:

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

1-22s-12w Stafford
Helmerts#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-InTool | 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
 A T T N : 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

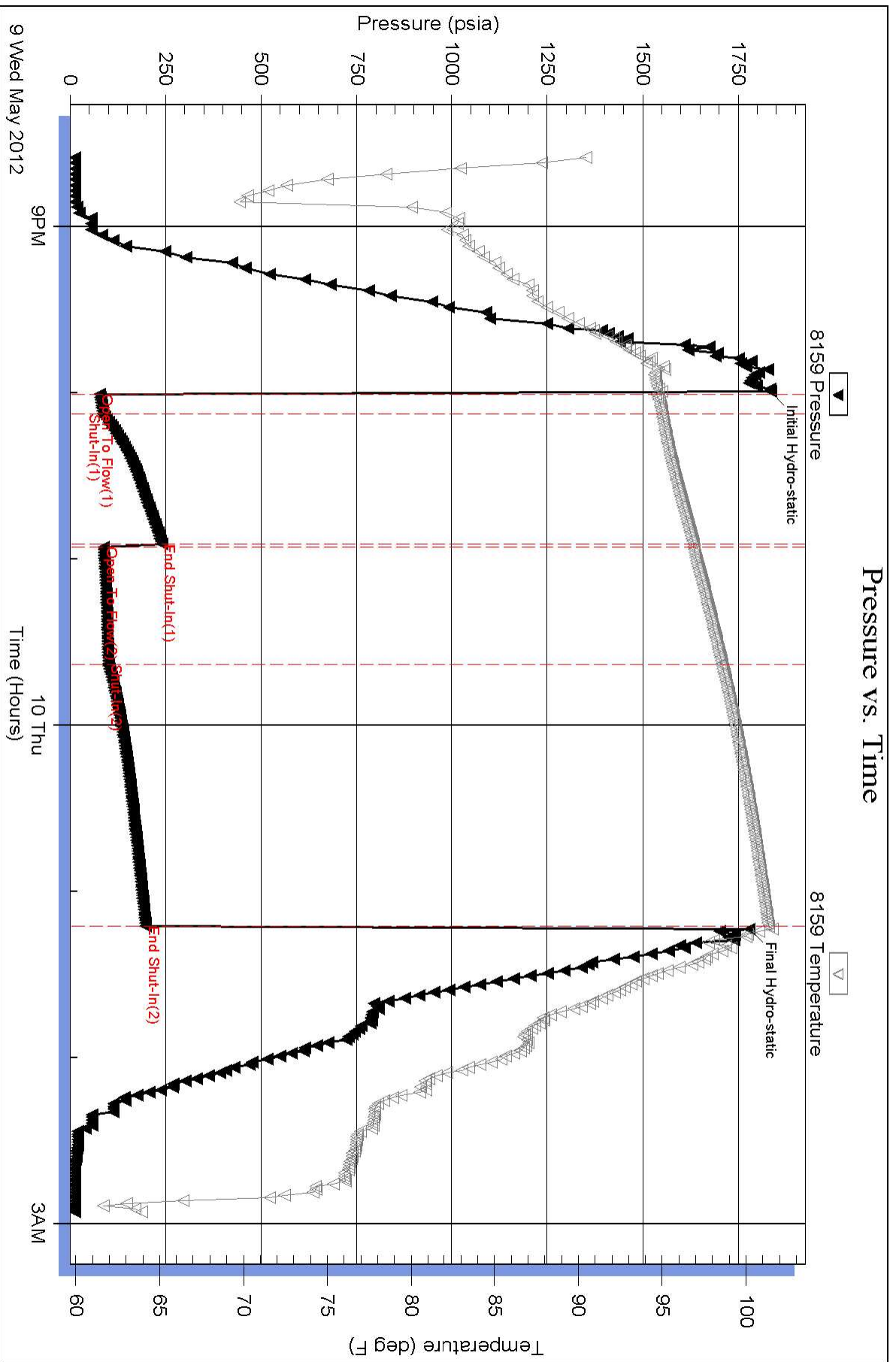
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: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

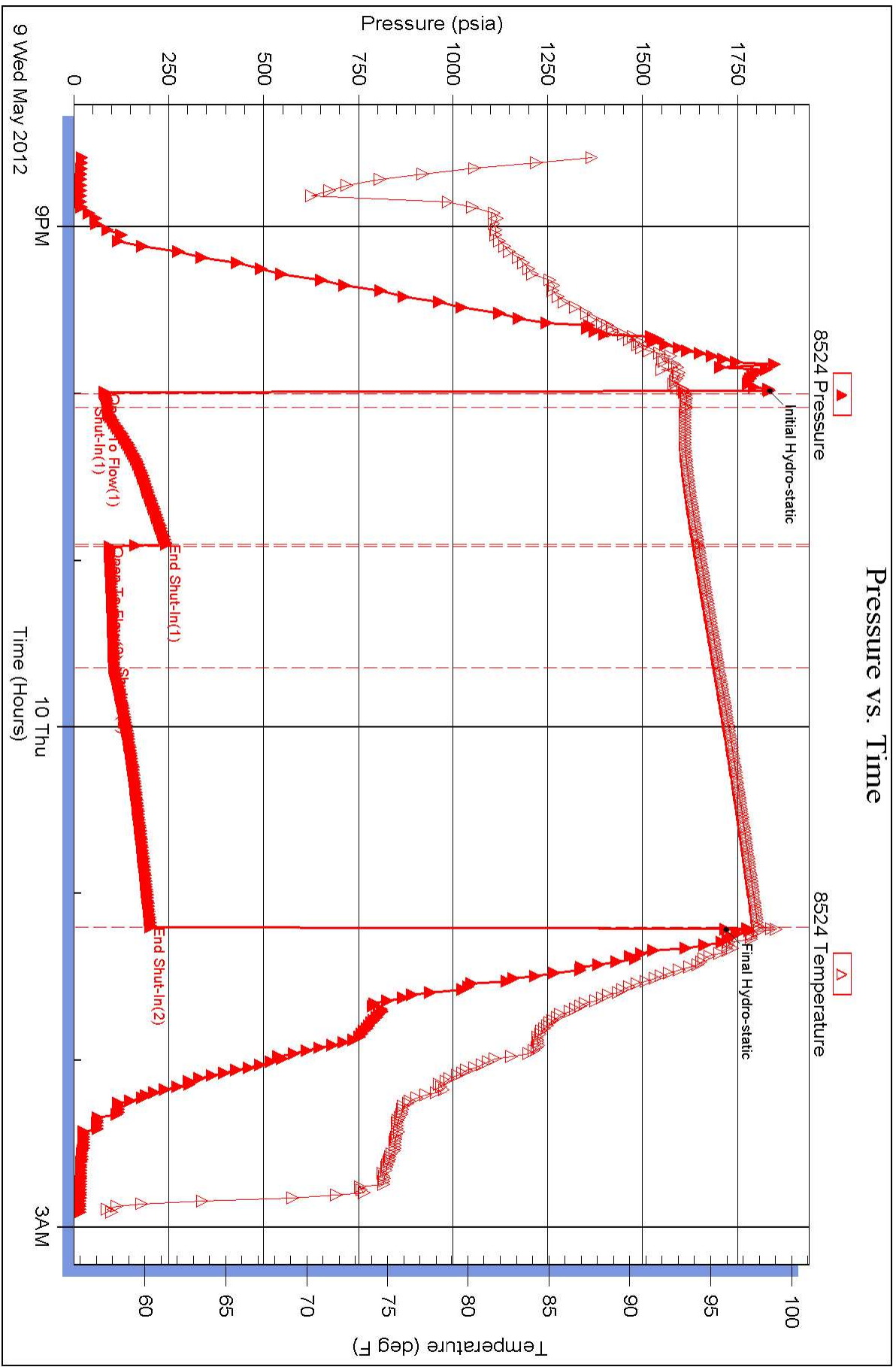
Recovery Information

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

Helmets#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
Helmets#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

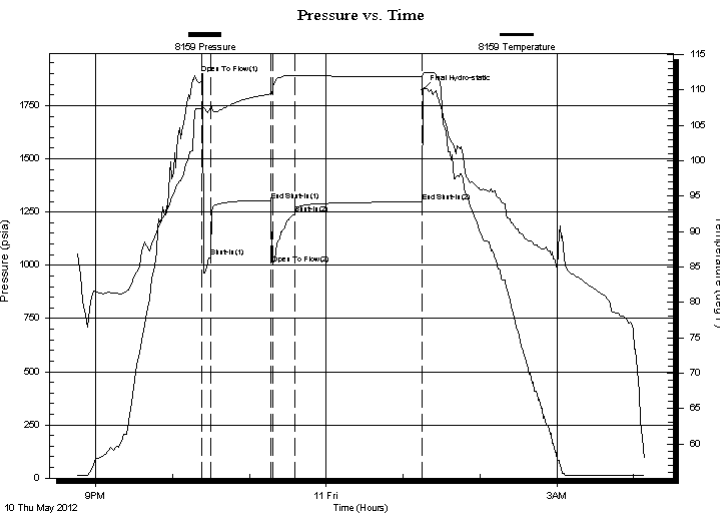
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17140 **DST#: 5**
 Test Start: 2012.05.10 @ 20:45:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 22:23:00
 Tester: Jared Scheck
 Time Test Ended: 04:09:00
 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% w ater | 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

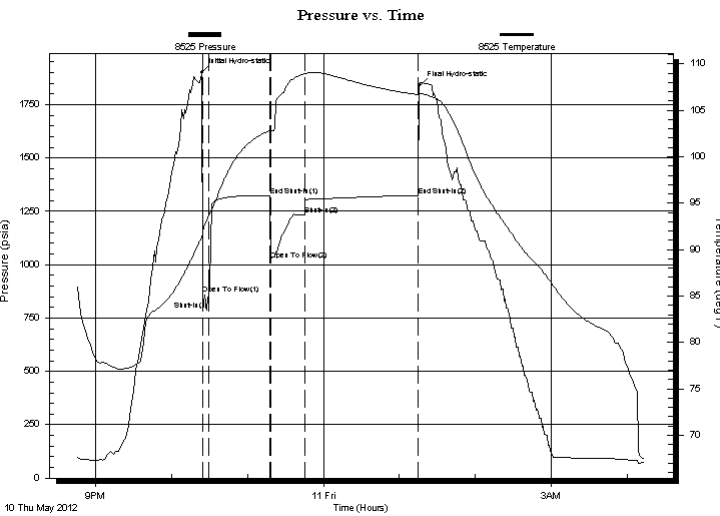
1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17140 **DST#: 5**
 Test Start: 2012.05.10 @ 20:45:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 22:23:00 Tester: Jared Scheck
 Time Test Ended: 04:09:00 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 #: 8525 Outside
 Press @ Run Depth: 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 @ 65 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
 A T T N : 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 | |
| Hydraulic 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

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17140

DST#: 5

ATTN: Derek Patterson

Test Start: 2012.05.10 @ 20:45:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 50.00 sec/qt
 Water Loss: 8.00 in³
 Resistivity: ohm.m
 Salinity: 9300.00 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 |
|--------------|-------------------------------|---------------|
| 2640.00 | muddy w ater 30%mud 70%w ater | 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

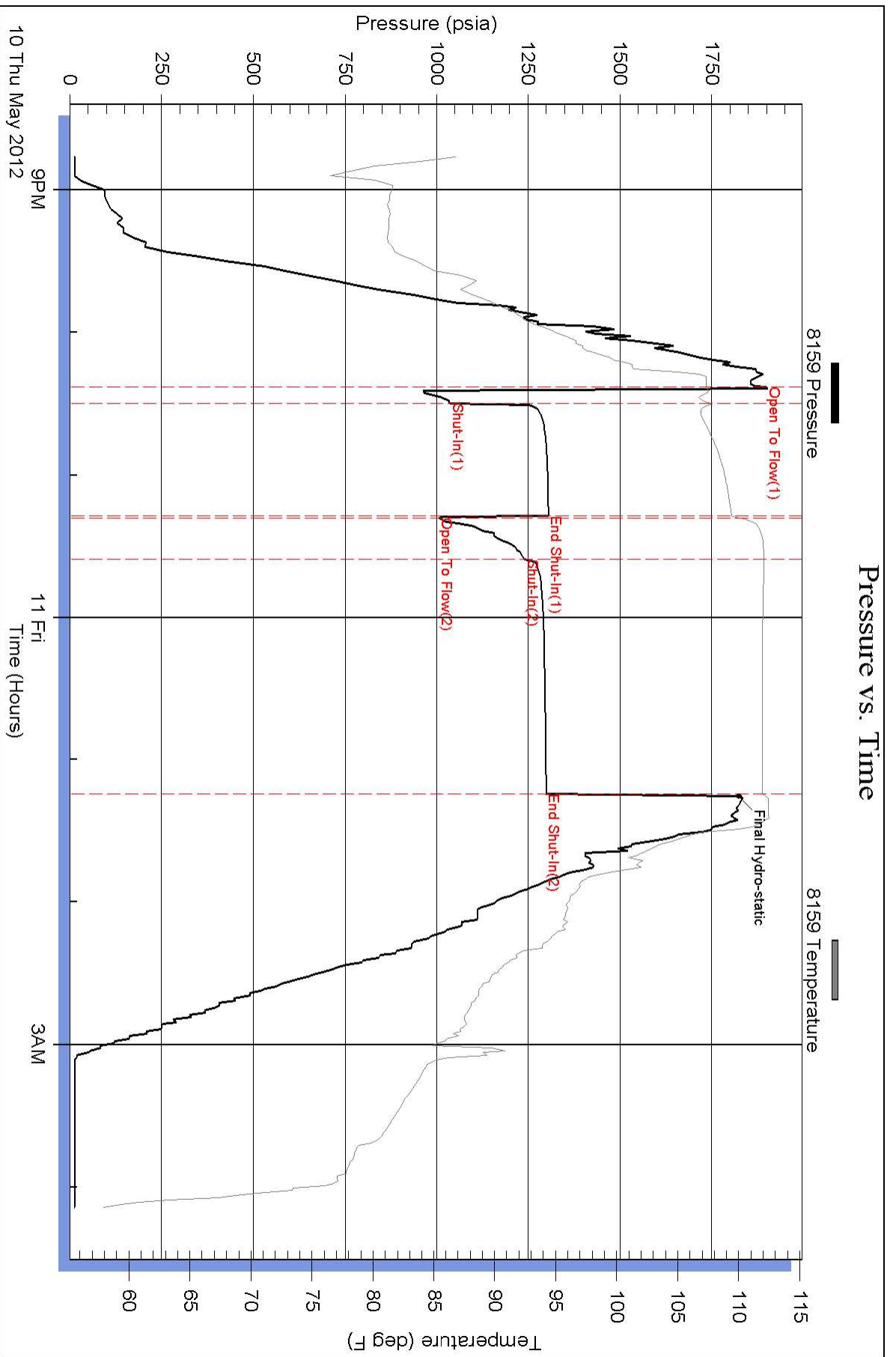
Serial #:

Laboratory Name:

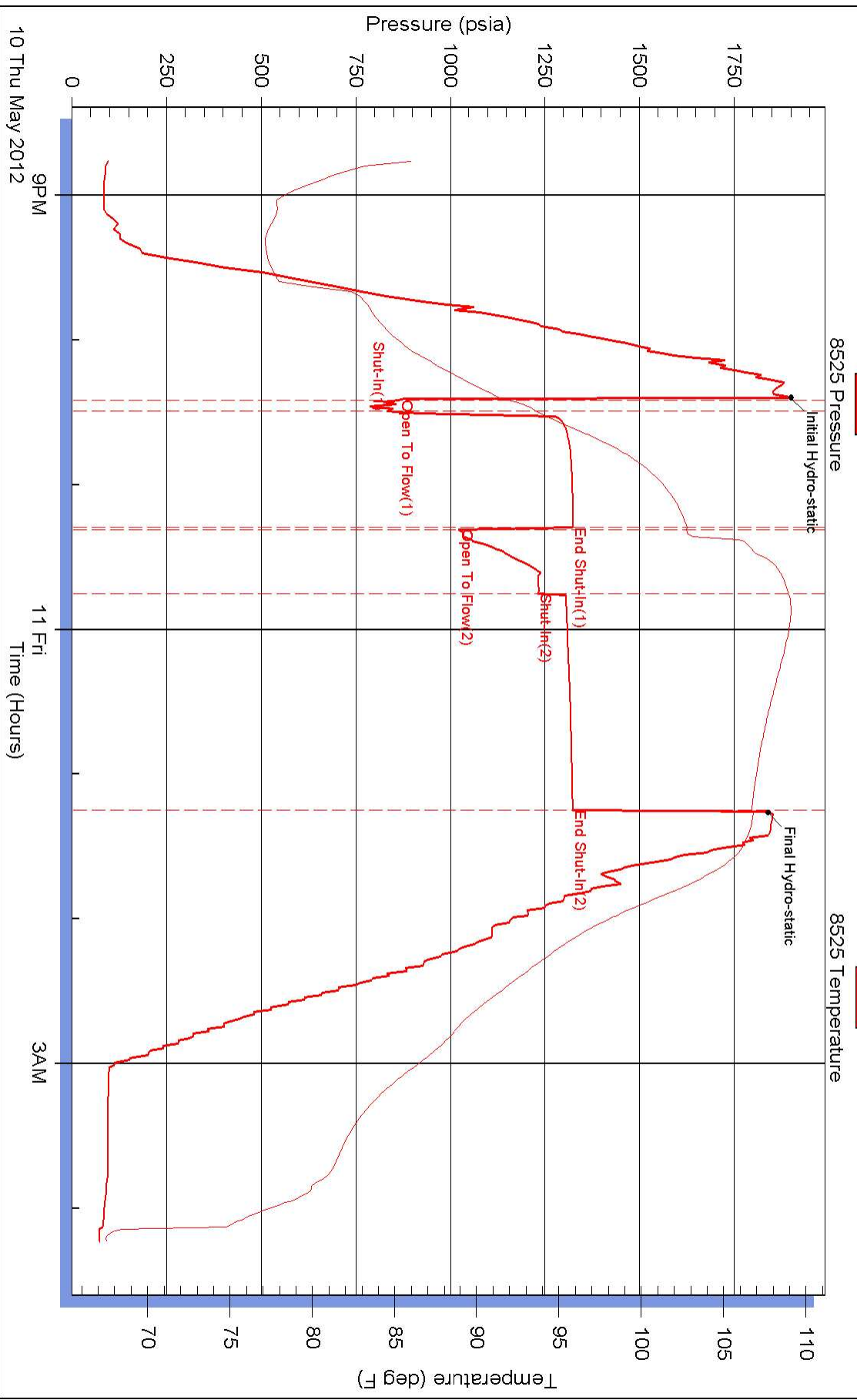
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





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: 2012.05.11 @ 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

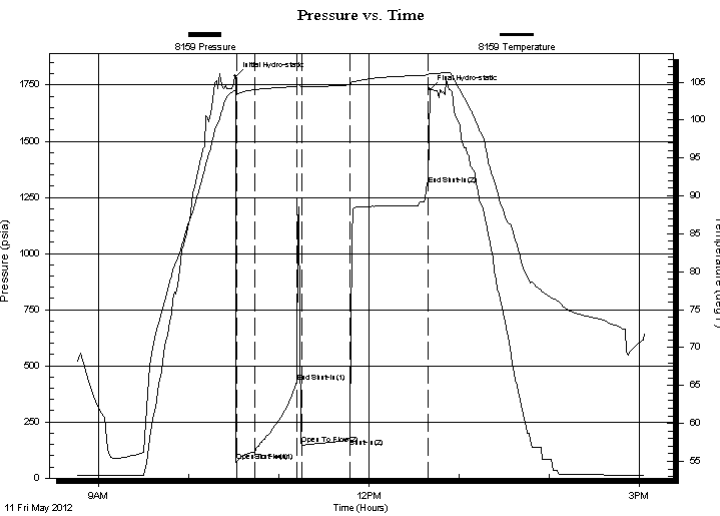
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 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 #: 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

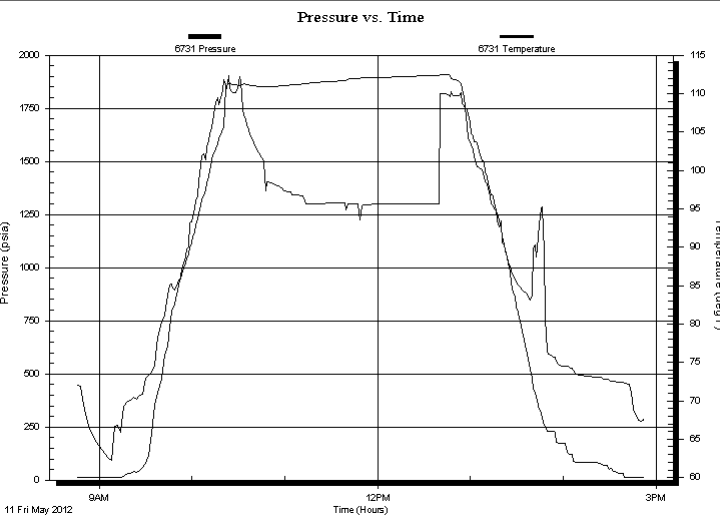
GENERAL INFORMATION:

Formation: **Viola**
 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 #: 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

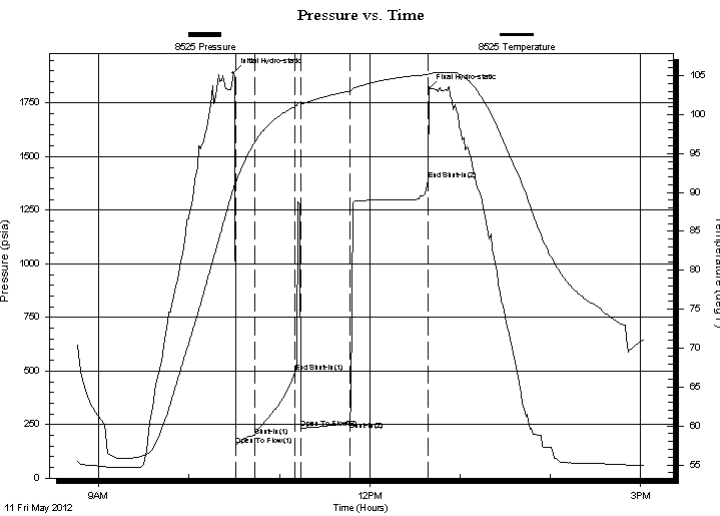
GENERAL INFORMATION:

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
 A T T N : Derek Patterson

1-22s-12w Stafford
Helmers#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 |
| | | | <u>Total Volume: 47.02 bbl</u> | 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
Helmers#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:

