



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1192121  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1192121

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	H & B Petroleum Corp.
Well Name	Suppes 1
Doc ID	1192121

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microresistivity
Sonic Bond

Form	ACO1 - Well Completion
Operator	H & B Petroleum Corp.
Well Name	Suppes 1
Doc ID	1192121

Tops

Name	Top	Datum
Heebner	3945	
Toronto	3960	
Lansing	3987	
Stark Shale	4277	
Base Kansas City	4388	
Marmaton	4421	
Pawnee	4488	
Ft Scott	4528	
Cherokee Shale	4550	
Mississippian Spergen	4651	

Form	ACO1 - Well Completion
Operator	H & B Petroleum Corp.
Well Name	Suppes 1
Doc ID	1192121

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	325	Common	250	3%cc, 2%gel
Production	7.875	5.5	15.5	4707	Scavenger	50	
Production	7.875	5.5	15.5	4707	Common	150	2%gel,2% plaster
DV Tool	7.875	5.5	15.5	2304	60/40 Poz	530	6% gel

# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1095

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT:  
Russell, KS - Horse, KS

DATE <u>8-30-13</u>	SEC. <u>23</u>	TWP. <u>19</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>8:45pm</u>	JOB FINISH <u>9:45pm</u>
LEASE <u>Suppes</u>	WELL #. <u>1</u>	LOCATION		COUNTY <u>Scott</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR Southwind #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 300psi MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20 ft

PERFS

DISPLACEMENT 19 1/2

EQUIPMENT

PUMP TRUCK CEMENTER Heath

# P1 HELPER Cody

BULK TRUCK

# B3 DRIVER Ryan

BULK TRUCK

# DRIVER

OWNER

CEMENT AMOUNT ORDERED 25051 Com 3%CC

2%ogel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran 7 hrs of 8 5/8 casing and landing  
It - est circulation - Hook up and mix  
25051 - D. Sp/42661 at H2O - Shut in  
@ 300psi.

Cement did circulate!!

CHARGE TO: H&B Petroleum

STREET

CITY STATE ZIP

Schippers Oil Field Services, L.L.C.,  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

Thank you!

PRINTED NAME

SIGNATURE William Anderson

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1101

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell, KS - Hoxie, KS

DATE <u>9-10-13</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>7:15am</u>	JOB FINISH <u>7:45am</u>
LEASE <u>Suppes</u>	WELL #. <u>1</u>	LOCATION			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR <u>Southwind #2</u>	OWNER
TYPE OF JOB <u>Pipe Job</u>	
HOLE SIZE _____ T.D.	
CASING SIZE <u>5 1/2</u>	DEPTH <u>4705</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL <u>DV Tool</u>	DEPTH _____
PRES. MAX <u>1500psi</u>	MINIMUM <u>300psi</u>
MEAS. LINE _____	SHOE JOINT _____
CEMENT LEFT IN CSG. _____	
PERFS _____	
DISPLACEMENT <u>114 bbl on bottom 5-5 bbl = top</u>	
EQUIPMENT	
PUMP TRUCK _____	CEMENTER <u>Heath</u>
# <u>P1</u>	HELPER <u>Cody</u>
BULK TRUCK _____	
# <u>B1</u>	DRIVER <u>Jay</u>
BULK TRUCK _____	
# _____	DRIVER _____

CEMENT	
AMOUNT ORDERED <u>150 sk com 2% gel</u>	
<u>2% plaster</u>	
<u>580 sk 60/40 6% gel</u>	
COMMON _____ @ _____	
POZMIX _____ @ _____	
GEL _____ @ _____	
CHLORIDE _____ @ _____	
ASC _____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
HANDLING _____ @ _____	
MILEAGE _____ @ _____	
TOTAL _____	

REMARKS:  
Ran 105 JTS of 5 1/2 casing and landing  
JT - EST Circulation for 1 hr - mixed 50  
sk Swager cement and failed in with 150sk  
com 2% plaster 2% gel - shut down washed pump  
and lines clean - disp 112 bbl of H2O - plug landed  
@ 1500psi - released and float held - opened  
DV tool and circulated for 2 hrs - hooked up  
and mixed 5-30 sk down casing - washed pump and  
lines clean and disp 56 bbl H2O - plug landed @ 1300psi  
plug RH = 30 sk MH = 20 sk  
 CHARGE TO: HAB Petro  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE	
DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	
EXTRA FOOTAGE _____ @ _____	
MILEAGE _____ @ _____	
MANIFOLD _____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL _____	

Schippers Oil Field Services, L.L.C.,  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Hammel Smith  
 SIGNATURE Mike Hammel Smith

PLUG & FLOAT EQUIPMENT	
<u>DV Tool &amp; latch drum</u> @ _____	
<u>4-5 1/2 baskets</u> @ _____	
<u>10-5 1/2 turbo</u> @ _____	
<u>1- AELL shoe</u> @ _____	
<u>16-5 1/2 Scratcher's</u> @ _____	
TOTAL _____	

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1144

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell, US - Hoxie, US

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-29-13						2:30pm	3:30pm
LEASE	WELL #.		LOCATION	COUNTY		STATE	
Suppes	1			Scott		115	
<input checked="" type="radio"/> OLD <input type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR CO Tools  
 TYPE OF JOB Squeeze  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE 5 1/2 DEPTH \_\_\_\_\_  
 TUBING SIZE 2 3/8 DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1200ps MINIMUM 1000ps  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS 4280-4295 & 4318-4322  
 DISPLACEMENT 16.24 = T 2.26 = C

EQUIPMENT  
 PUMP TRUCK CEMENTER Heath  
 # P1 HELPER Cody  
 BULK TRUCK  
 # R4 DRIVER Eric  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
Run tubing down to 4197' and est  
calc @ 2 3/8" @ 800ps - pressured up backside  
to 500ps. - held - threaded up to tubing and mixed  
150ps - washed pump and lines clean and disp  
16 3/4 bbl of H2O - squeezed to 1200ps - released  
and dried up - washed clean and pulled  
225 - pressured up to 500ps - shut in

CHARGE TO: HOB  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Schippers Oil Field Services, L.L.C.,  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. T-hanc 104.c

PRINTED NAME \_\_\_\_\_  
 SIGNATURE [Signature]

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 150SKCOM  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

SERVICE  
 DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



# SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1153

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell US

DATE <u>11-11-13</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>12:00pm</u>	JOB FINISH <u>1:00pm</u>
LEASE <u>Supper</u>	WELL #. <u>1</u>	LOCATION				COUNTY	STATE
<input checked="" type="radio"/> OLD OR NEW (CIRCLE ONE)							

CONTRACTOR CO Tools  
 TYPE OF JOB Squeeze  
 HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL Retainer plug DEPTH 4330  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS 4270-95 4310-22 4350  
 DISPLACEMENT 16 3/4 = T

EQUIPMENT  
 PUMP TRUCK CEMENTER Kath  
 # P1 HELPER Lady  
 BULK TRUCK  
 # B1 DRIVER Mark  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 150sx 101M  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

REMARKS:  
Set cement retainer plug @ 4330' - hooked up to tubing and est rate @ 600psi - mixed 150sx and washed pump and lines clean. Disp 12 bbl of H2O and pressured up to 1000psi - released and closed up - pull out of retainer plug and tried to wash clean - top perfs were open and could not get circulation. Come out of hole with tubing.

CHARGE TO: HOB Petro  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Schippers Oil Field Services, L.L.C.,  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_

TOTAL \_\_\_\_\_  
 SERVICE  
 DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 97 @ \_\_\_\_\_  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.05 @ 11:15:00

End Date: 2013.09.05 @ 17:20:30

Job Ticket #: 52861                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:10:45

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 1 " 1 " 2013.09.05



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

## GENERAL INFORMATION:

Formation: "I"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:13:45

Time Test Ended: 17:20:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Interval: 4275.00 ft (KB) To 4300.00 ft (KB) (TVD)

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2955.00 ft (KB)

2946.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8845**

**Outside**

Press@RunDepth: 66.24 psig @ 4276.00 ft (KB)

Start Date: 2013.09.05

End Date:

2013.09.05

Capacity: 8000.00 psig

Last Calib.: 2013.09.05

Start Time: 11:15:05

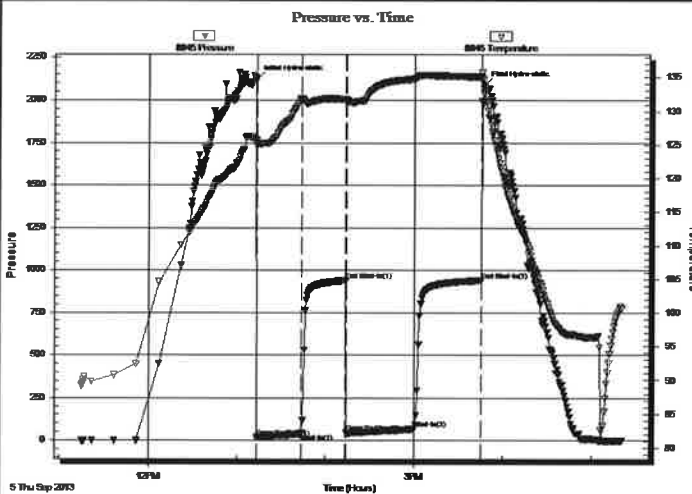
End Time:

17:20:29

Time On Btm: 2013.09.05 @ 13:13:30

Time Off Btm: 2013.09.05 @ 15:46:45

**TEST COMMENT:** IF: 1/4" Blow died back to a Weak Surface Blow.  
IS: No Return.  
FF: Weak Surface Blow died @ 31 min.  
FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.26	125.71	Initial Hydro-static
1	17.42	124.86	Open To Flow (1)
31	37.74	131.85	Shut-In(1)
61	938.84	131.77	End Shut-In(1)
61	44.18	131.27	Open To Flow (2)
107	66.24	134.83	Shut-In(2)
152	938.86	135.12	End Shut-In(2)
154	2090.03	133.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 5g 5o 90m	0.84
50.00	GO 10g 90o	0.70

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

### Tool Information

Drill Pipe:	Length: 4277.00 ft	Diameter: 3.80 inches	Volume: 60.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4275.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	28.00 Bottom Of Top Packer
Packer	4.00			4275.00	
Stubb	1.00			4276.00	
Recorder	0.00	6772	Outside	4276.00	
Recorder	0.00	8845	Outside	4276.00	
Perforations	19.00			4295.00	
Bullnose	5.00			4300.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52861

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.09.05 @ 11:15:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 5g 5o 90m	0.842
50.00	GO 10g 90o	0.701

Total Length: 110.00 ft      Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

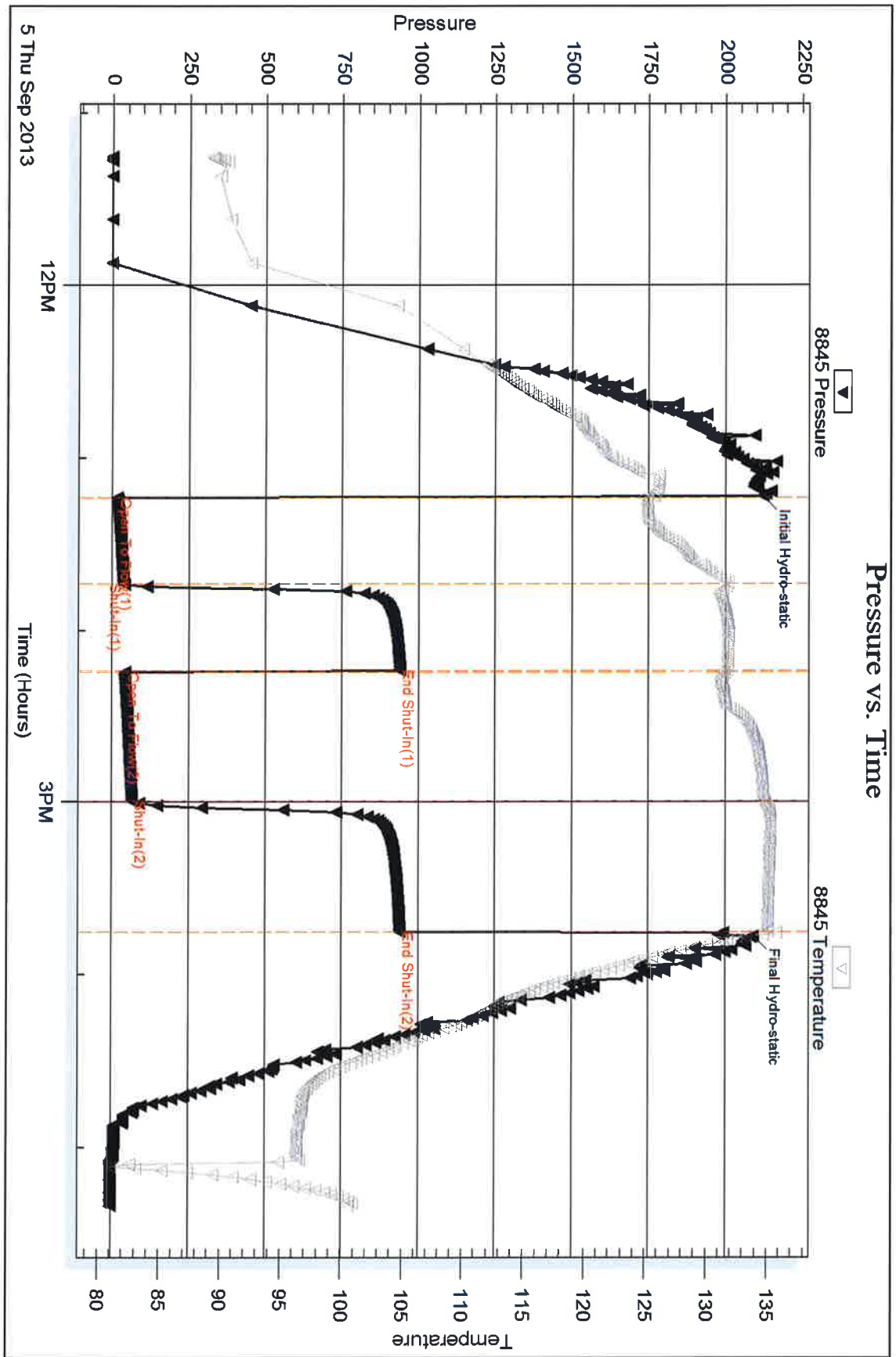
Recovery Comments: Oil API: 31 @ 100 Degrees= 27 deg API

Serial #: 8845

Outside H & B Petroleum Corp.

Slippes #1

DST Test Number: 1



Trioble Testing, Inc

Ref. No: 52861

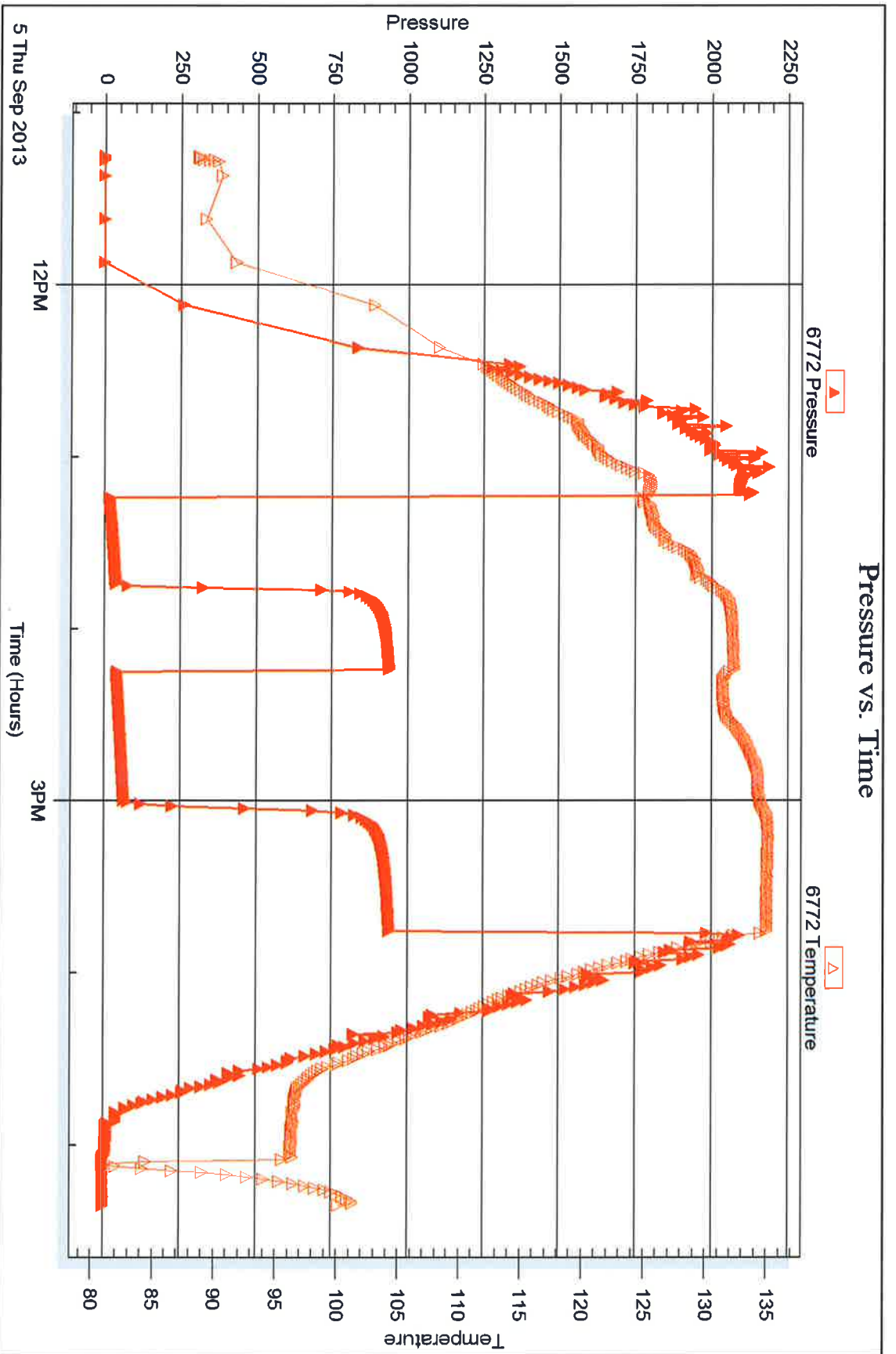
Printed: 2013.09.10 @ 10:10:47

Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 1







## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.06 @ 03:30:00

End Date: 2013.09.06 @ 10:47:30

Job Ticket #: 52862                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:10:13

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 2 "K" 2013.09.06



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52862

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2013.09.06 @ 03:30:00

### GENERAL INFORMATION:

Formation: **"K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:58:30  
 Time Test Ended: 10:47:30  
 Interval: **4313.00 ft (KB) To 4343.00 ft (KB) (TVD)**  
 Total Depth: 4343.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2955.00 ft (KB)  
 2946.00 ft (CF)  
 KB to GR/CF: 9.00 ft

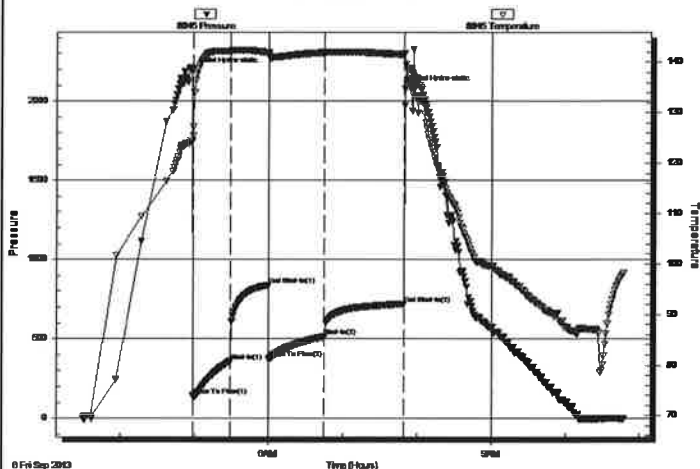
### Serial #: 8845

Outside

Press@RunDepth: 513.62 psig @ 4315.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.09.06 End Date: 2013.09.06 Last Calib.: 2013.09.06  
 Start Time: 03:30:05 End Time: 10:47:29 Time On Btm: 2013.09.06 @ 04:58:00  
 Time Off Btm: 2013.09.06 @ 07:50:00

TEST COMMENT: IF: BOB @ 1 1/2 min.  
 IS: Bled off for 5 min. 1/2" Return.  
 FF: BOB @ 5 min.  
 FSI: Bled off for 5 min. No Return.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.25	124.27	Initial Hydro-static
1	142.03	125.41	Open To Flow (1)
31	359.80	142.18	Shut-In(1)
62	837.11	141.90	End Shut-In(1)
62	375.62	141.54	Open To Flow (2)
107	513.62	141.89	Shut-In(2)
171	718.55	141.47	End Shut-In(2)
172	2076.69	141.82	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
190.00	GOMCW 5g 5o 20m 70w	2.67
250.00	GMVCO 5m 5w 20g 70o	3.51
830.00	GO 20g 80o	11.64
0.00	250' GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52862

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2013.09.06 @ 03:30:00

### Tool Information

Drill Pipe:	Length: 4311.00 ft	Diameter: 3.80 inches	Volume: 60.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	4314.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4287.00	
Shut In Tool	5.00			4292.00	
Hydraulic tool	5.00			4297.00	
Jars	5.00			4302.00	
Safety Joint	3.00			4305.00	
Packer	5.00			4310.00	28.00 Bottom Of Top Packer
Packer	4.00			4314.00	
Stubb	1.00			4315.00	
Recorder	0.00	6772	Outside	4315.00	
Recorder	0.00	8845	Outside	4315.00	
Perforations	23.00			4338.00	
Bullnose	5.00			4343.00	29.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>57.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

**23-19s-31w Scott,KS**  
**Suppes #1**  
Job Ticket: 52862      **DST#: 2**  
Test Start: 2013.09.06 @ 03:30:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 40000 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GOMCW 5g 5o 20m 70w	2.665
250.00	GMMCO 5m 5w 20g 70o	3.507
830.00	GO 20g 80o	11.643
0.00	250' GIP	0.000

Total Length: 1270.00 ft      Total Volume: 17.815 bbl

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

Laboratory Name:      Laboratory Location:

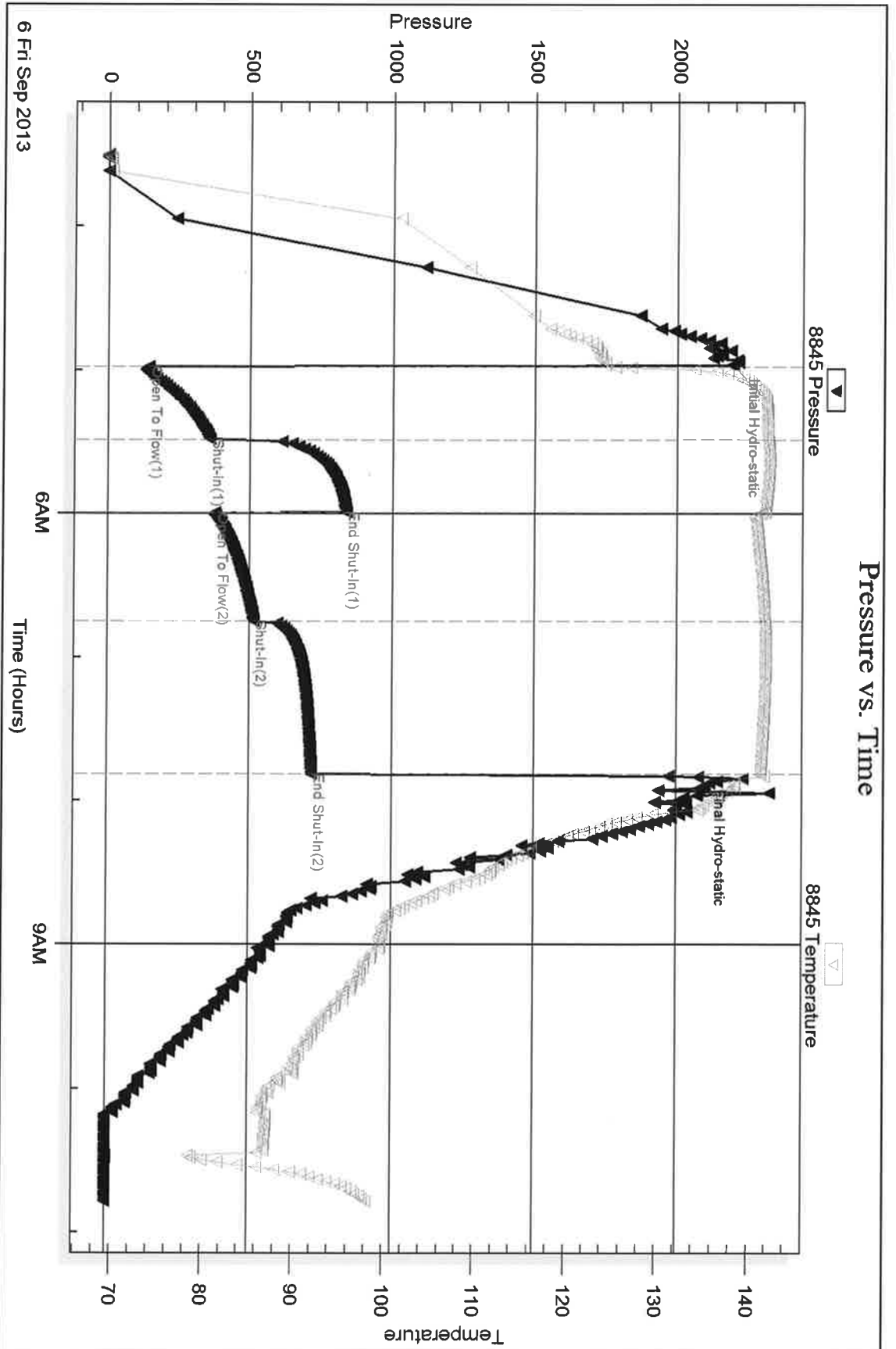
Recovery Comments: Oil API: 31 @ 90 degrees = 28 deg API  
Water Salinity: .146 @ 83 degrees = 40,000 ppm

Serial #: 8845

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52862

Printed: 2013.09.10 @ 10:10:14

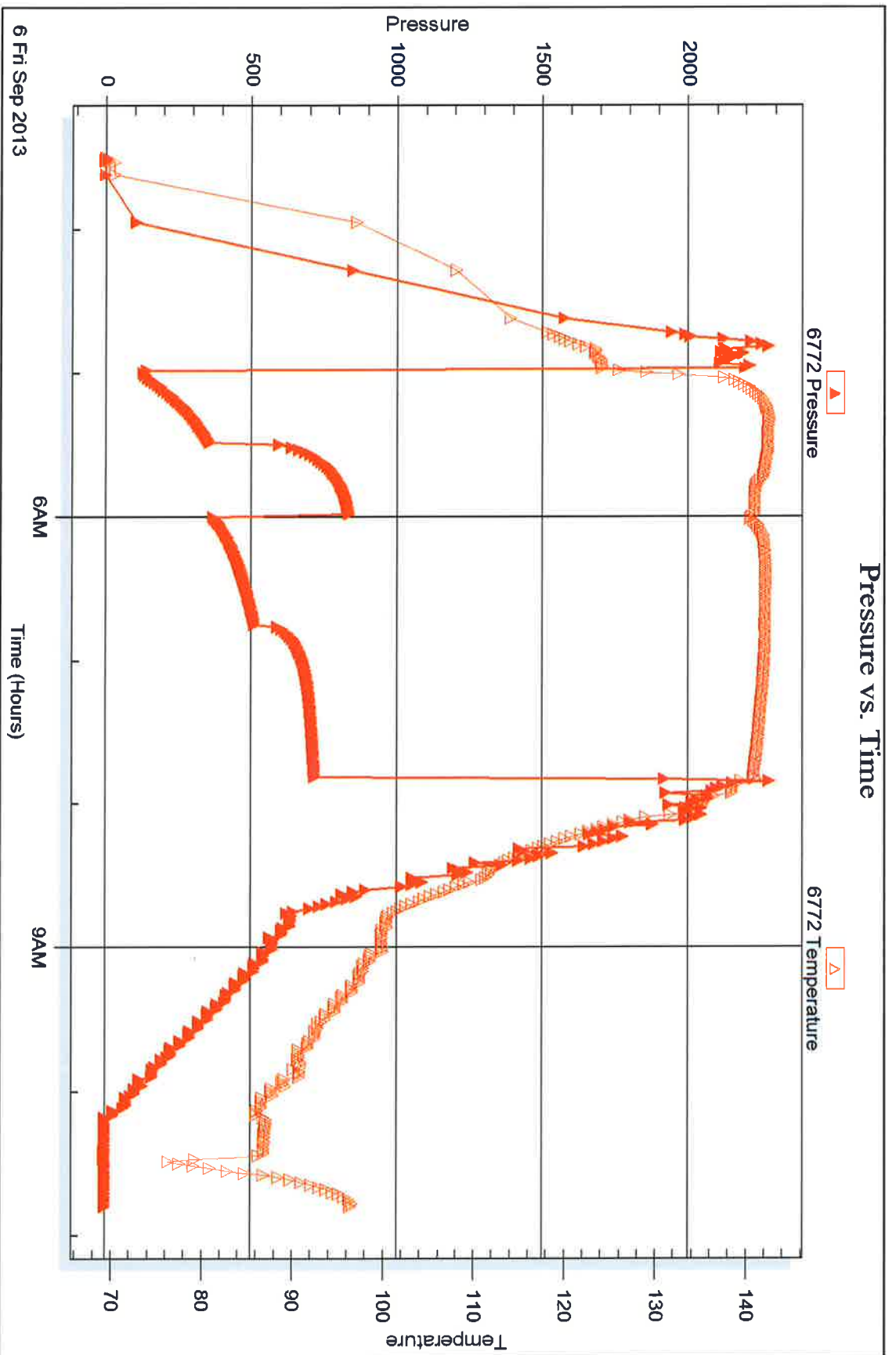
Serial #: 6772

Outside

H & B Petroleum Corp.

Suppes #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52862

Printed: 2013.09.10 @ 10:10:14



## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.07 @ 01:17:00

End Date: 2013.09.07 @ 07:20:30

Job Ticket #: 52863                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:09:37

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 3 Marmaton 2013.09.07





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

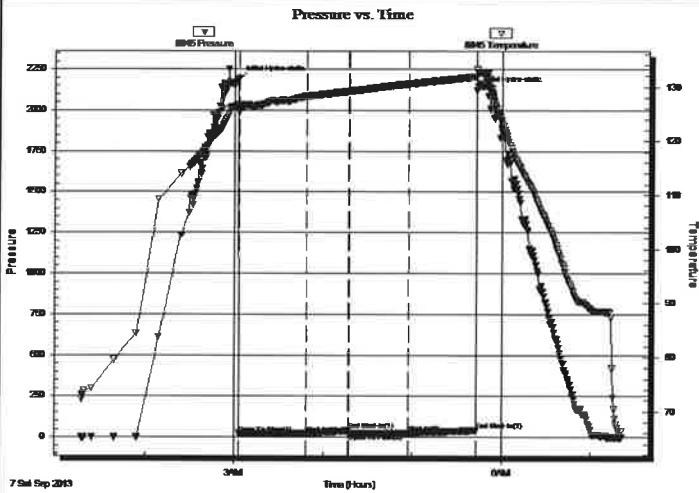
**23-19s-31w Scott,KS**  
**Suppes #1**  
Job Ticket: 52863      **DST#: 3**  
Test Start: 2013.09.07 @ 01:17:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No      Whipstock:                      ft (KB)  
Time Tool Opened: 03:03:00  
Time Test Ended: 07:20:30  
Interval: **4417.00 ft (KB) To 4447.00 ft (KB) (TVD)**  
Total Depth: 4447.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 64  
Reference Elevations: 2955.00 ft (KB)  
2946.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8845      Outside**  
Press@RunDepth: 22.58 psig @ 4418.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.09.07      End Date: 2013.09.07      Last Calib.: 2013.09.07  
Start Time: 01:17:05      End Time: 07:20:29      Time On Btm: 2013.09.07 @ 03:02:45  
Time Off Btm: 2013.09.07 @ 05:43:00

TEST COMMENT: IF: 3/4" Blow.  
IS: No Return.  
FF: No Blow.  
FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.65	126.76	Initial Hydro-static
1	20.32	125.36	Open To Flow (1)
46	20.75	128.25	Shut-In(1)
74	38.77	129.17	End Shut-In(1)
75	22.61	129.18	Open To Flow (2)
115	22.58	130.54	Shut-In(2)
160	39.91	131.91	End Shut-In(2)
161	2120.89	133.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 20o 80m ( Oil Scum on top )	0.21

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52863

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.09.07 @ 01:17:00

### Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 61.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4417.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4390.00	
Shut In Tool	5.00			4395.00	
Hydraulic tool	5.00			4400.00	
Jars	5.00			4405.00	
Safety Joint	3.00			4408.00	
Packer	5.00			4413.00	28.00 Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	6772	Outside	4418.00	
Recorder	0.00	8845	Outside	4418.00	
Perforations	24.00			4442.00	
Bullnose	5.00			4447.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52863

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2013.09.07 @ 01:17:00

### 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:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 20o 80m ( Oil Scum on top )	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

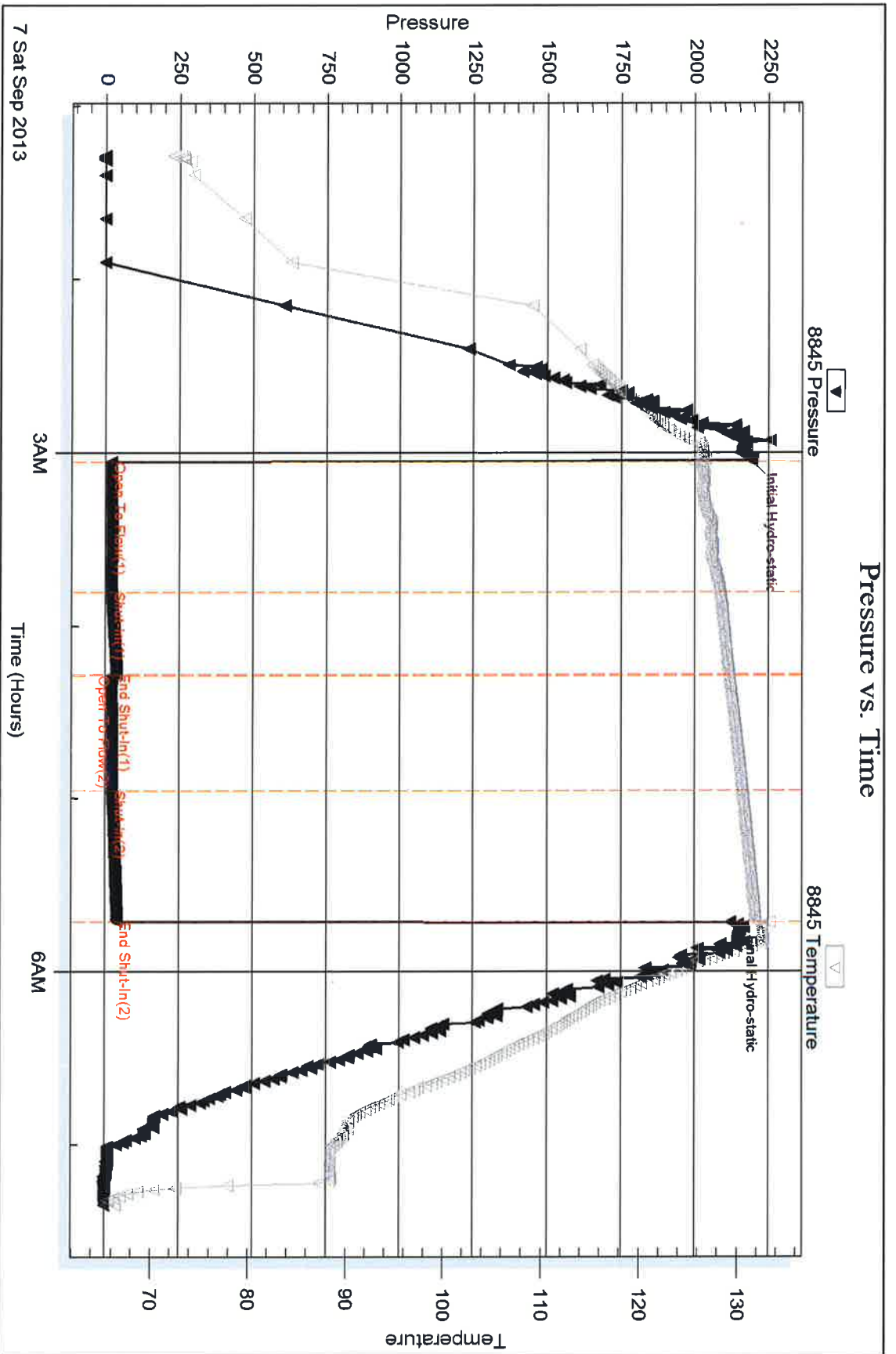
Recovery Comments:

Serial #: 8845

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 52863

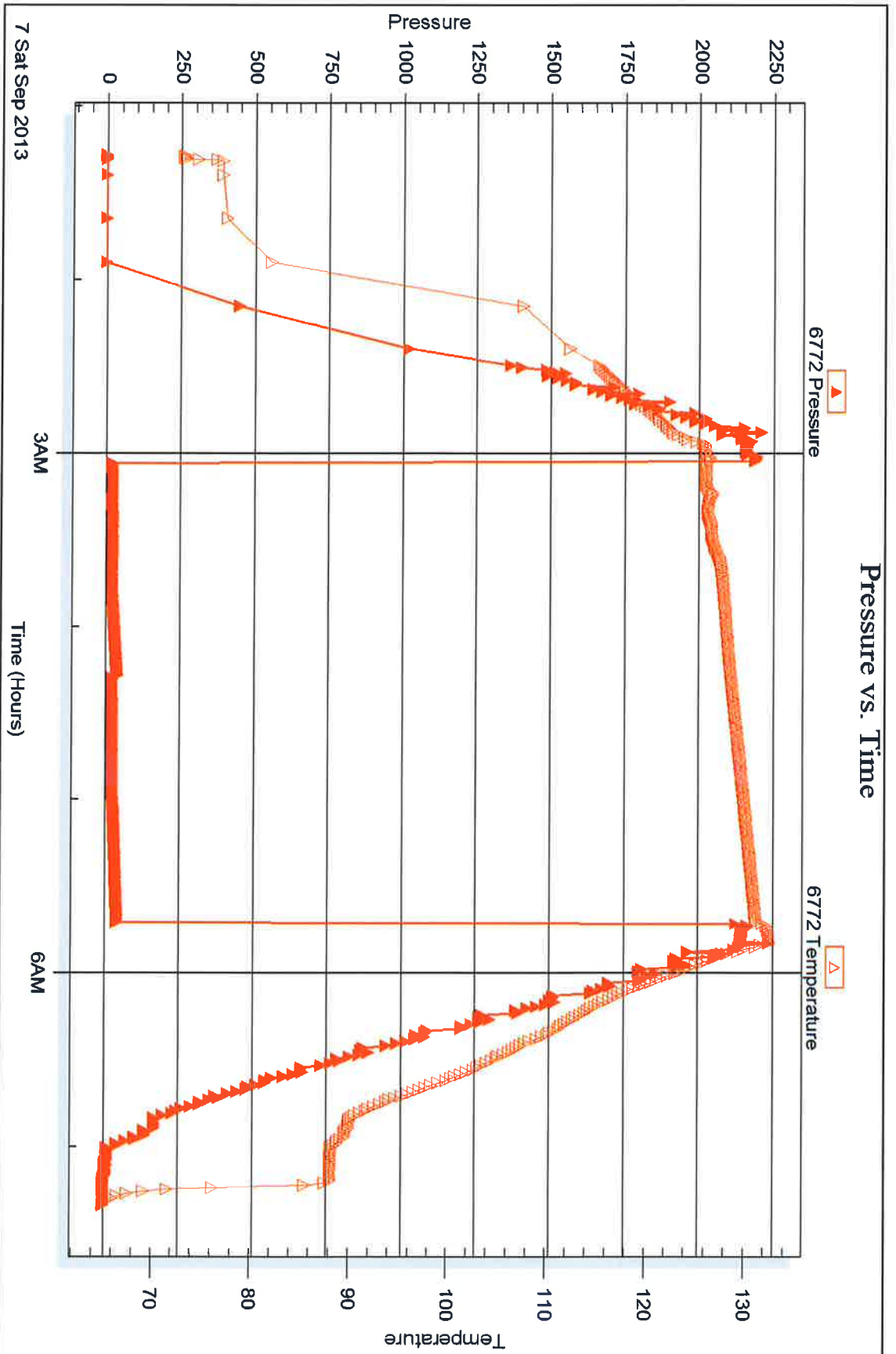
Printed: 2013.09.10 @ 10:09:39

Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.08 @ 01:12:00

End Date: 2013.09.08 @ 08:08:45

Job Ticket #: 52864                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:09:12

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 4 Pawnee 2013.09.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
 PO Box 277  
 Ellinwood, KS 67526  
 ATTN: Jim Musgrove

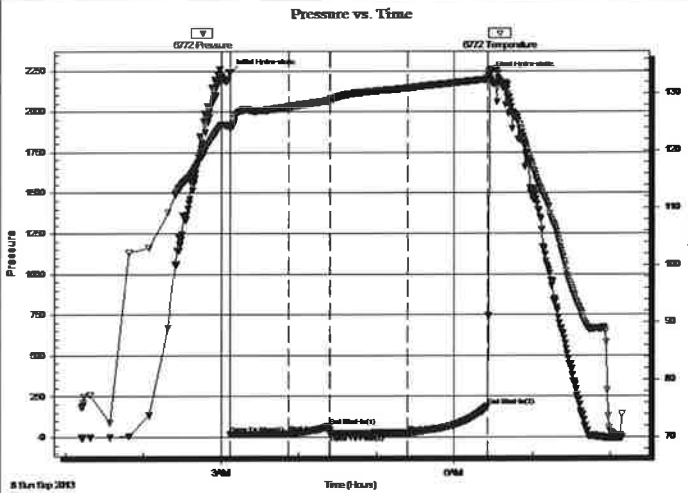
**23-19s-31w Scott, KS**  
**Suppes #1**  
 Job Ticket: 52864      **DST#: 4**  
 Test Start: 2013.09.08 @ 01:12:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 03:07:00  
 Time Test Ended: 08:08:45  
 Interval: **4476.00 ft (KB) To 4570.00 ft (KB) (TVD)**  
 Total Depth: 4570.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2955.00 ft (KB)  
 2946.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6772      Outside**  
 Press@RunDepth: 26.96 psig @ 4477.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.09.08      End Date: 2013.09.08      Last Calib.: 2013.09.08  
 Start Time: 01:12:05      End Time: 08:08:44      Time On Btm: 2013.09.08 @ 03:06:45  
 Time Off Btm: 2013.09.08 @ 06:26:45

**TEST COMMENT:** IF: 3" Blow.  
 IS: No Return.  
 FF: 1 1/4" Blow.  
 FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.76	124.45	Initial Hydro-static
1	18.08	123.74	Open To Flow (1)
45	23.46	127.54	Shut-In(1)
77	65.21	128.58	End Shut-In(1)
78	18.91	128.78	Open To Flow (2)
138	26.96	130.86	Shut-In(2)
199	187.43	132.35	End Shut-In(2)
200	2220.66	133.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m ( Oil Spots )	0.42

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52864

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.09.08 @ 01:12:00

### Tool Information

Drill Pipe:	Length: 4473.00 ft	Diameter: 3.80 inches	Volume: 62.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 62.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4476.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4449.00	
Shut In Tool	5.00			4454.00	
Hydraulic tool	5.00			4459.00	
Jars	5.00			4464.00	
Safety Joint	3.00			4467.00	
Packer	5.00			4472.00	28.00 Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Recorder	0.00	6772	Outside	4477.00	
Recorder	0.00	8845	Outside	4477.00	
Perforations	23.00			4500.00	
Change Over Sub	1.00			4501.00	
Drill Pipe	63.00			4564.00	
Change Over Sub	1.00			4565.00	
Bullnose	5.00			4570.00	94.00 Bottom Packers & Anchor

**Total Tool Length: 122.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52864

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2013.09.08 @ 01:12:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m ( Oil Spots )	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

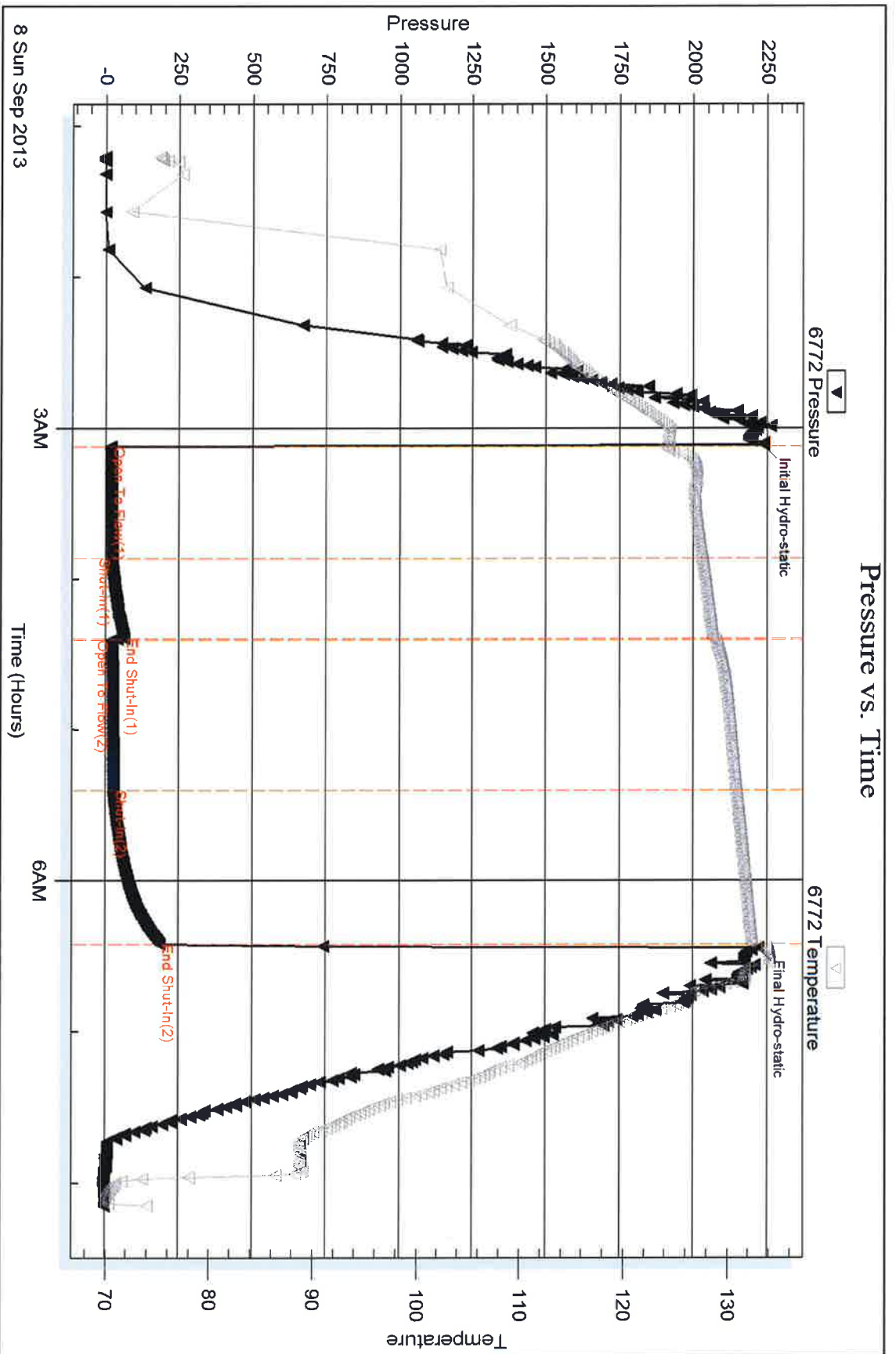
Recovery Comments:

Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

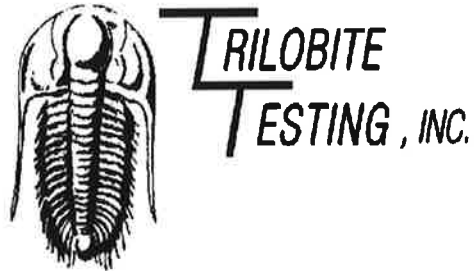
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 52864

Printed: 2013.09.10 @ 10:09:13



## DRILL STEM TEST REPORT

Prepared For: **H & B Petroleum Corp.**

PO Box 277  
Ellinwood , KS 67526

ATTN: Jim Musgrove

### **Suppes #1**

#### **23-19s-31w Scott,KS**

Start Date: 2013.09.08 @ 21:07:00

End Date: 2013.09.09 @ 05:09:45

Job Ticket #: 52865                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.10 @ 10:08:43

H & B Petroleum Corp. 23-19s-31w Scott,KS Suppes #1 DST # 5 Miss - Spergen 2013.09.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.  
 PO Box 277  
 Ellinwood, KS 67526  
 ATTN: Jim Musgrove

**23-19s-31w Scott, KS**  
**Suppes #1**  
 Job Ticket: 52865      **DST#: 5**  
 Test Start: 2013.09.08 @ 21:07:00

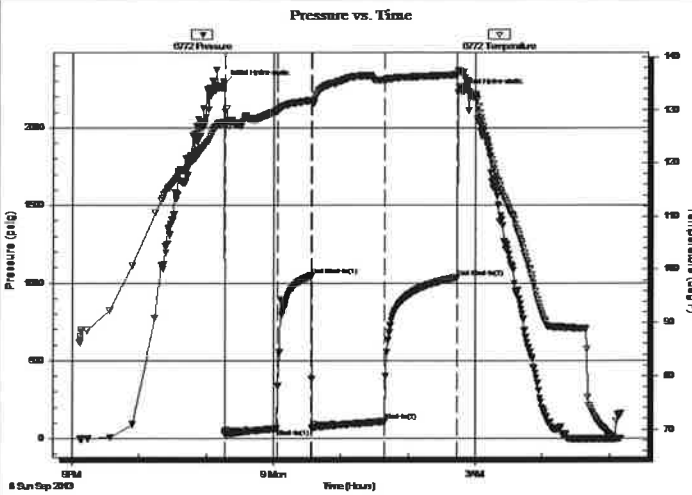
## GENERAL INFORMATION:

Formation: **Miss - Spergen**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 23:16:15  
 Time Test Ended: 05:09:45  
 Interval: **4568.00 ft (KB) To 4660.00 ft (KB) (TVD)**  
 Total Depth: 4660.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2955.00 ft (KB)  
 2946.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6772      Outside**  
 Press@RunDepth: 108.92 psig @ 4569.00 ft (KB)  
 Start Date: 2013.09.08      End Date: 2013.09.09  
 Start Time: 21:07:05      End Time: 05:09:44  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.09.09  
 Time On Btm: 2013.09.08 @ 23:16:00  
 Time Off Btm: 2013.09.09 @ 02:44:45

TEST COMMENT: IF: 3" Blow.  
 IS: No Return.  
 FF: 4 1/4" Blow.  
 FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.26	127.60	Initial Hydro-static
1	32.21	127.00	Open To Flow (1)
47	64.53	129.89	Shut-In(1)
78	1045.62	131.88	End Shut-In(1)
78	69.65	131.51	Open To Flow (2)
143	108.92	135.60	Shut-In(2)
208	1034.97	136.65	End Shut-In(2)
209	2226.51	137.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Ocm 20o 80m	1.68
70.00	Gom 10g 10o 80m	0.98
0.00	60 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & B Petroleum Corp.

**23-19s-31w Scott,KS**

PO Box 277  
Ellinwood, KS 67526

**Suppes #1**

Job Ticket: 52865

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2013.09.08 @ 21:07:00

### Tool Information

Drill Pipe:	Length: 4565.00 ft	Diameter: 3.80 inches	Volume: 64.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4568.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4541.00	
Shut In Tool	5.00			4546.00	
Hydraulic tool	5.00			4551.00	
Jars	5.00			4556.00	
Safety Joint	3.00			4559.00	
Packer	5.00			4564.00	28.00 Bottom Of Top Packer
Packer	4.00			4568.00	
Stubb	1.00			4569.00	
Recorder	0.00	6772	Outside	4569.00	
Recorder	0.00	8845	Outside	4569.00	
Perforations	21.00			4590.00	
Change Over Sub	1.00			4591.00	
Drill Pipe	63.00			4654.00	
Change Over Sub	1.00			4655.00	
Bullnose	5.00			4660.00	92.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>120.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.  
PO Box 277  
Ellinwood, KS 67526  
ATTN: Jim Musgrove

**23-19s-31w Scott,KS**  
**Suppes #1**  
Job Ticket: 52865      **DST#: 5**  
Test Start: 2013.09.08 @ 21:07:00

## 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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Ocm 20o 80m	1.683
70.00	Gom 10g 10o 80m	0.982
0.00	60 GIP	0.000

Total Length: 190.00 ft      Total Volume: 2.665 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



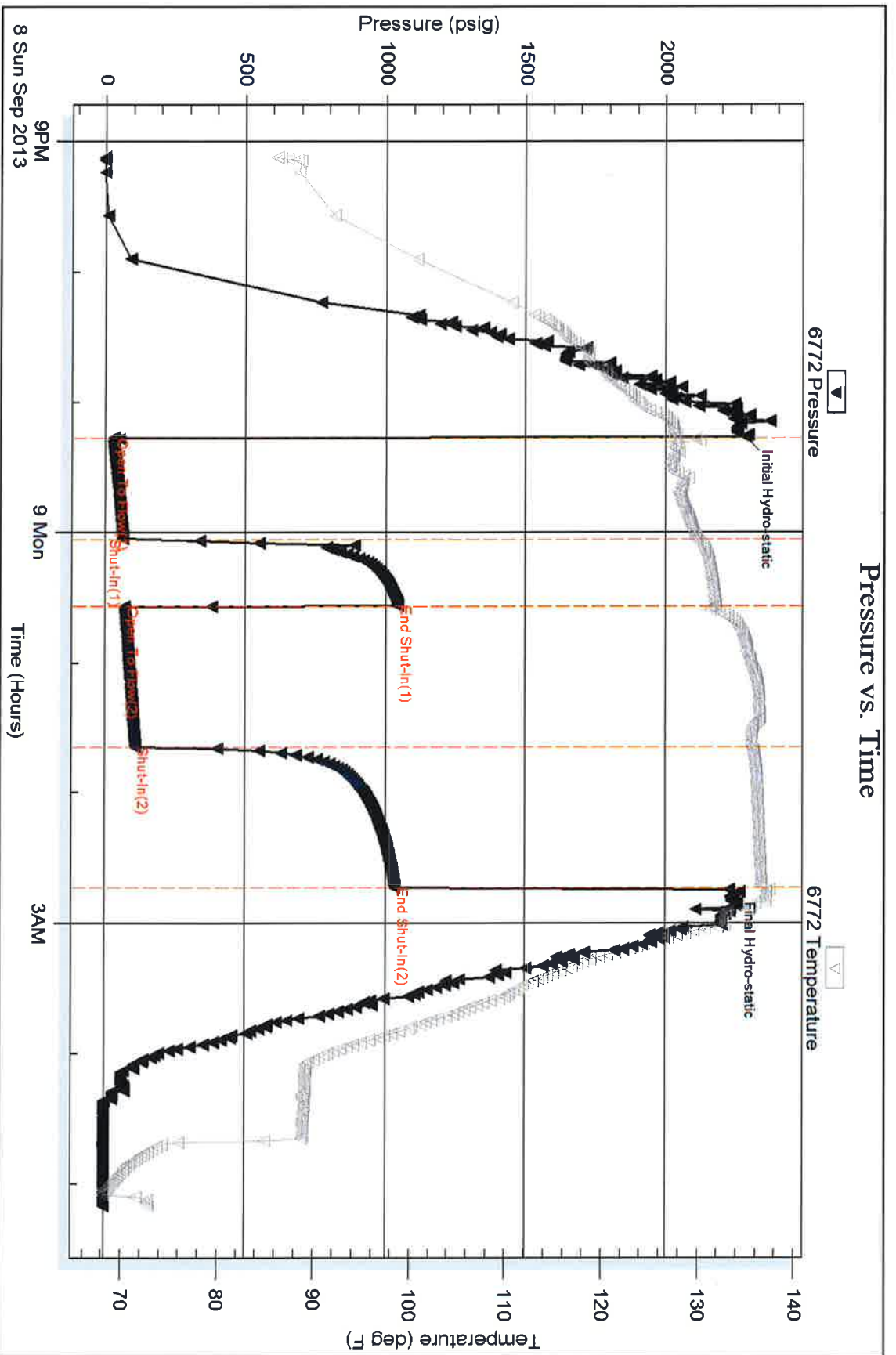
Serial #: 6772

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 5

### Pressure vs. Time



Trachite Testing, Inc

Ref. No: 52865

Printed: 2013.09.10 @ 10:08:45

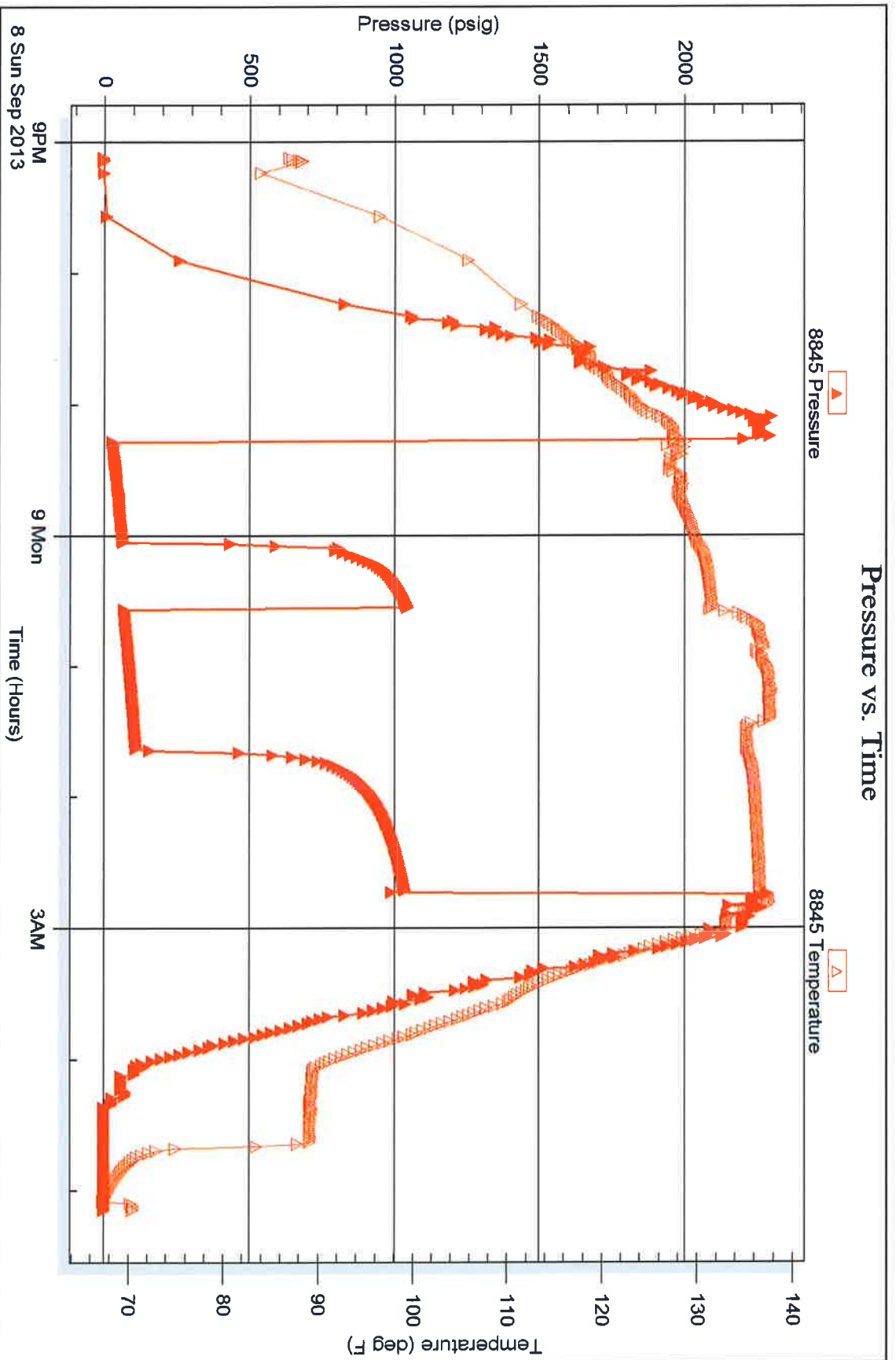
Serial #: 8845

Outside H & B Petroleum Corp.

Suppes #1

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52865

Printed: 2013.09.10 @ 10:08:45



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52861

Well Name & No. Suppes #1 Test No. 1 Date 9/5/13  
 Company H & B Petroleum Corp. Elevation 2955 KB 2946 GL  
 Address PO Box 277 Ellinwood, KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 23 Twp. 19S Rge. 3/W Co. Scott State KS

Interval Tested 4275-4300 Zone Tested "I"  
 Anchor Length 25' Drill Pipe Run 4277 Mud Wt. 9.3  
 Top Packer Depth 4271 Drill Collars Run 0 Vis 62  
 Bottom Packer Depth 4275 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4300 Chlorides 2000 ppm System LCM 3

Blow Description IF: 1/4" Blow died back to a weak surface blow.  
ISI: NO Return.  
FF: Weak surface Blow Died @ 3/min.  
FSI: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>60CM</u>	<u>5</u>	<u>5</u>		<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110 BIT 135 Gravity 27 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2122  Test 1250 T-On Location 10:00  
 (B) First Initial Flow 17  Jars 250 T-Started 11:15  
 (C) First Final Flow 38  Safety Joint 75 T-Open 13:14  
 (D) Initial Shut-In 939  Circ Sub N/C T-Pulled 15:45  
 (E) Second Initial Flow 44  Hourly Standby T-Out 17:21  
 (F) Second Final Flow 66  Mileage 34 RT 52.70 Comments Gravity: 31 @ 100' = 27  
 (G) Final Shut-In 939  Sampler  
 (H) Final Hydrostatic 2090  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 0  
 Total 1627.70  
 MP/DST Disc 1

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52862

Well Name & No. <u>Suppes #1</u>	Test No. <u>2</u>	Date <u>9/6/13</u>
Company <u>H &amp; B Petroleum Corp.</u>	Elevation <u>2955</u>	KB <u>2746</u> GL
Address <u>PO Box 277 Ellinwood, KS 67526</u>		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Southwind #2</u>	
Location: Sec. <u>23</u> Twp. <u>19S</u> Rge. <u>31W</u> Co. <u>Scott</u> State <u>KS</u>		

Interval Tested <u>4314-4343</u>	Zone Tested <u>"K"</u>
Anchor Length <u>29'</u>	Drill Pipe Run <u>43H</u> Mud Wt. <u>9.3</u>
Top Packer Depth <u>4310</u>	Drill Collars Run <u>Ø</u> Vis <u>64</u>
Bottom Packer Depth <u>4314</u>	Wt. Pipe Run <u>Ø</u> WL <u>8.0</u>
Total Depth <u>4343</u>	Chlorides <u>2000</u> ppm System LCM <u>3</u>

Blow Description IF: BOB @ 1/2 min.  
ISI: Blud off for 5 min. 2" Return.  
FF: BOB @ 5 min.  
FSL: Blud off for 5 min. No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>830</u>	<u>GO</u>	<u>20</u>	<u>80</u>		
<u>250</u>	<u>GMWCO</u>	<u>20</u>	<u>70</u>	<u>5</u>	<u>5</u>
<u>190</u>	<u>GOMCW</u>	<u>5</u>	<u>5</u>	<u>70</u>	<u>20</u>
<u>250'</u>	<u>GIP</u>				

Rec Total 1270 BHT 142 Gravity 28 API RW .146 @ 83 F Chlorides 40,000 ppm

(A) Initial Hydrostatic <u>2189</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>3:15</u>
(B) First Initial Flow <u>142</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:30</u>
(C) First Final Flow <u>360</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:58</u>
(D) Initial Shut-In <u>837</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:48</u>
(E) Second Initial Flow <u>376</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:47</u>
(F) Second Final Flow <u>514</u>	<input checked="" type="checkbox"/> Mileage <u>34 R/T</u> 52.70	Comments <u>Gravity: 31 @ 90 = 28</u>
(G) Final Shut-In <u>719</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2077</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1627.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1627.70</u>	

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52863

Well Name & No. <u>Suppas #1</u>	Test No. <u>3</u>	Date <u>9/7/13</u>
Company <u>H &amp; B Petroleum Corp.</u>	Elevation <u>2955</u>	KB <u>2946</u> Gl
Address <u>PO Box 277 Ellinwood, KS 67526</u>		
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Southwind #2</u>	
Location: Sec <u>23</u> Twp <u>19S</u> Rge <u>31W</u> Co <u>Scott</u> State <u>KS</u>		

Interval Tested <u>4417 - 4447</u>	Zone Tested <u>Marmata</u>
Anchor Length <u>30'</u>	Drill Pipe Run <u>4405</u>
Top Packer Depth <u>4413</u>	Drill Collars Run <u>0</u>
Bottom Packer Depth <u>4417</u>	Wt. Pipe Run <u>0</u>
Total Depth <u>4447</u>	Chlorides <u>2000</u> ppm System
Blow Description <u>IF: 3/4" Blow</u>	Mud Wt. <u>9.2</u>
<u>ISB: No Return.</u>	Vis <u>50</u>
<u>FF: No Blow</u>	WL <u>8.8</u>
<u>FSB: No Return.</u>	LCM <u>1</u>

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OCM (oil screen on top)</u>	<u>20</u>		<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>15</u>	BHT <u>132</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u>	F Chlorides <u>—</u> ppm
(A) Initial Hydrostatic	<u>2189</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1:10</u>
(B) First Initial Flow	<u>20</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1:17</u>
(C) First Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>3:04</u>
(D) Initial Shut-In	<u>39</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>5:40</u>
(E) Second Initial Flow	<u>23</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>7:21</u>
(F) Second Final Flow	<u>23</u>	<input checked="" type="checkbox"/> Mileage	<u>34 RT</u>	52.70	Comments
(G) Final Shut-In	<u>40</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2121</u>	<input type="checkbox"/> Straddle			

Initial Open	<u>45</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Ruined Packer
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Copies
Final Shut-In	<u>45</u>	Sub Total <u>0</u>
		Total <u>1627.70</u>
		MP/DSL Disc't

Approved By: [Signature] Our Representative: [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52864

Well Name & No. Supers #1 Test No. 4 Date 9/8/13  
 Company H & B Petroleum Corp. Elevation 2955 KB 2946 GL  
 Address PO Box 277 Ellinwood, KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 23 Twp. 19S Rge. 31W Co. Scott State KS

Interval Tested 4476-~~4500~~ 4570 Zone Tested Avonue  
 Anchor Length 91' Drill Pipe Run 4473 Mud Wt. 9.2  
 Top Packer Depth 4472 Drill Collars Run Ø Vis 60  
 Bottom Packer Depth 4476 Wt. Pipe Run Ø WI. ~~6.5~~ 8.0  
 Total Depth 4570 Chlorides 1600 ppm System LCM 3  
 Blow Description IF: 3" Blow.  
ISL: NO Return.  
FF: 1 1/4" Blow.  
FSL: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud (oil spots)</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 132 Gravity — API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2238  Test 1250 T-On Location 0010  
 (B) First Initial Flow 18  Jars 250 T-Started 1:12  
 (C) First Final Flow 23  Safety Joint 75 T-Open 3:07  
 (D) Initial Shut-In 65  Circ Sub N/C T-Pulled 6:25  
 (E) Second Initial Flow 19  Hourly Standby T-Out 8:09  
 (F) Second Final Flow 27  Mileage 34 RT 52.70 Comments  
 (G) Final Shut-In 187  Sampler  
 (H) Final Hydrostatic 2221  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Initial Open 45  Extra Recorder Sub Total 0  
 Initial Shut-In 30  Day Standby Total 1627.70  
 Final Flow 60  Accessibility MP/DST Disc't  
 Final Shut-In 60 Sub Total 1627.70

Approved By [Signature] Our Representative [Signature]  
 TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the site for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52865

Well Name & No. Supper #1 Test No. 5 Date 9/8/13  
 Company H & B Petroleum Corp. Elevation 2955 KB 2946 GL  
 Address PO Box 277 Ellinwood, KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 23 Twp. 19S Rge. 31W Co. Scott State KS

Interval Tested ~~4568-4660~~ 4568-4660 Zone Tested Miss - Spargen  
 Anchor Length 92' Drill Pipe Run 4565 Mud Wt. 9.3  
 Top Packer Depth 4564 Drill Collars Run Ø Vis 54  
 Bottom Packer Depth 4568 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4660 Chlorides 1500 ppm System LCM 2

Blow Description IF: 3" Blow.  
IST: No Return.  
FF: 4 1/2" Blow.  
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<del>120</del> <u>120</u>	<u>0cm</u>		<u>20</u>		<u>80</u>
<del>70</del> <u>70</u>	<u>0cm</u>	<u>10</u>	<u>10</u>		<u>80</u>
	<u>40' GIP</u>				

Rec Total 190 BHT 137 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2284  Test 1250 T-On Location ~~Ø~~ 2050  
 (B) First Initial Flow 32  Jars 250 T-Started 21:07  
 (C) First Final Flow 64  Safety Joint 75 T-Open 23:17  
 (D) Initial Shut-In 1045  Circ Sub \_\_\_\_\_ T-Pulled 2:43  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 05:10  
 (F) Second Final Flow 108  Mileage 34 R/T 52.70 Comments \_\_\_\_\_  
 (G) Final Shut-In 1034  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2226  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1627.70  
 Accessibility \_\_\_\_\_ MW/DST Disc't \_\_\_\_\_  
 Sub Total 1627.70

Initial Open 45  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative [Signature]  
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split test