



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
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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

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: \_\_\_\_\_



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
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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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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<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> _____ <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	Horchem E 4
Doc ID	1115834

All Electric Logs Run

Sonic Cement Bond
Dual Compensated Porosity
Microresistivity
Dual Induction

Form	ACO1 - Well Completion
Operator	H & B Petroleum Corp.
Well Name	Horchem E 4
Doc ID	1115834

Tops

Name	Top	Datum
Anhydrite	2066	
Heebner	3924	
Toronto	3939	
Lansing	3964	
Base Kansas City	4272	
Pawnee	4398	
Fort Scott	4461	
Mississippi	4547	

# ALLIED OIL & GAS SERVICES, LLC 056424

Federal Tax I.D.# 20-5975804

350777  
 PERMIT TO P.O. BOX 31  
 RUSSELL, KANSAS 67665

SERVICE POINT:

Russell Ks.

DATE <u>6-11-12</u>	SEC. <u>28</u>	TWP. <u>16 S</u>	RANGE <u>26 W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Horchem</u>	WELL # <u>"E" #4</u>	LOCATION <u>Utica Ks, 2w 4s 1/4 E</u>	COUNTY <u>Ness</u>			STATE <u>KANSAS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Sourwind D&G, Rig #2  
 TYPE OF JOB Cement Surface  
 HOLE SIZE 12 1/4 T.D. 369  
 CASING SIZE 8 5/8 23# DEPTH 368  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT 22 1/2 BBL  
 EQUIPMENT

OWNER  
 CEMENT  
 AMOUNT ORDERED 200 SK Com  
3% cc  
2% Gel  
 COMMON 200 @ 16.25 3250.00  
 POZMIX @  
 GEL 4 @ 21.25 85.00  
 CHLORIDE 7 @ 58.20 407.40  
 ASC @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 HANDLING 211 @ 2.25 474.75  
 MILEAGE 70 X 2.11 X .11 1624.70  
14.770 TOTAL 5841.85

REMARKS:

Ran 8 joints of 23# 8 5/8 casing  
Set @ 368, Received circulation  
& cement w/ 200 sk Com, 3% cc  
2% Gel, Displaced 22 1/2 BBL  
H<sub>2</sub>O Behind Cement, Shut in  
@ 300#  
Cement Did Circulate  
TO SURFACE THANKS

SERVICE

DEPTH OF JOB 369'  
 PUMP TRUCK CHARGE 112.50  
 EXTRA FOOTAGE 69 @ .95 65.55  
 MILEAGE/100 Hdr 70 @ 7.00 490.00  
 MANIFOLD @  
Ldv 70 @ 4.00 280.00  
 @

CHARGE TO: H & B Petroleum Corp  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 1960.55

PLUG & FLOAT EQUIPMENT

@  
 @  
 @  
 @  
 @  
 - TOTAL 0

To: Allied Oil & Gas Services, LLC.  
 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 William Sanders  
 SIGNATURE William Sanders

SALES TAX (If Any) 235.77  
 TOTAL CHARGES 7802.40  
 DISCOUNT 20% 2757.83 IF PAID IN 30 DAYS  
 Net 5044.57  
BS 6-12

# ALLIED OIL & GAS SERVICES, LLC 056220

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

*Oakley*

DATE <i>6-20-12</i>	SEC. <i>28</i>	TWP. <i>16</i>	RANGE <i>26</i>	CALLED OUT	ON LOCATION <i>4:30 PM</i>	JOB START <i>10:00 AM</i>	JOB FINISH <i>11:00 AM</i>
LEASE <i>Horchem E</i>	WELL # <i>4</i>	LOCATION <i>Utica 2W-1/2 S- Einto</i>			COUNTY <i>Ness</i>	STATE <i>Ks</i>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)							

CONTRACTOR *Southwind*

TYPE OF JOB *Production*

HOLE SIZE *7 7/8* T.D. *4632'*

CASING SIZE *5 1/2* DEPTH *4632'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *Port Collar* DEPTH *2093.86*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *14.83'*

CEMENT LEFT IN CSG. *14.83'*

PERFS.

DISPLACEMENT *112.66*

OWNER *Same*

CEMENT

AMOUNT ORDERED *95 SKS 60/40 40% Gel*

*150 SKS Com 10% Salt 2% Gel 1/4" Fb Seal*

COMMON	<i>207 SKS</i>	@ <i>\$16.25</i>	<i>\$3363.25</i>
POZMIX	<i>38 SKS</i>	@ <i>\$8.50</i>	<i>\$323.00</i>
GBL	<i>6 SKS</i>	@ <i>\$21.25</i>	<i>\$127.50</i>
CHLORIDE		@	
ASC		@	
Salt	<i>15 SKS</i>	@ <i>\$23.25</i>	<i>\$348.75</i>
Flu Seal	<i>38"</i>	@ <i>\$2.70</i>	<i>\$102.60</i>

HANDLING	<i>261.95</i>	<i>49%</i>	@ <i>\$2.10</i>	<i>\$549.05</i>
MILEAGE	<i>11.63</i>	<i>x 40 x</i>	@ <i>\$2.33</i>	<i>\$1093.22</i>
			TOTAL	<i>\$5918.37</i>

REMARKS:

*mix 30 SKS Plug Rat Hole mix 15 SKS Plug mouse hole*  
*mix 200 SKS Cement Down 5 1/2 casing*  
*Wash up Pump & Lines Displace with water*  
*Plug Landed Float Did Hold*

*Thank You -*

CHARGE TO: *H+B Petroleum*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<i>4632</i>	
PUMP TRUCK CHARGE		<i>\$2405.00</i>
EXTRA FOOTAGE	@	
MILEAGE	<i>40</i>	@ <i>\$7.00</i> <i>\$280.00</i>
MANIFOLD	<i>Head</i>	@ <i>\$200.00</i>
L.V. Mileage	@ <i>\$4.00</i>	<i>\$160.00</i>
		TOTAL <i>\$3045.00</i>

PLUG & FLOAT EQUIPMENT

<i>Weatherford 5 1/2</i>	
<i>1 RFU Float Shoe</i>	@ <i>\$349.00</i>
<i>1 Latch Down Plug Assfy.</i>	@ <i>\$277.00</i>
<i>9 Centralizers</i>	@ <i>\$49.00</i> <i>\$441.00</i>
<i>3 Baskets</i>	@ <i>\$337.00</i> <i>\$1011.00</i>
<i>10 Recip. Scrapers</i>	@ <i>\$118.00</i> <i>\$1180.00</i>
<i>1 - Port Collar</i>	<i>\$2600.00</i>
TOTAL <i>\$5858.00</i>	

To: Allied Oil & Gas Services, LLC.  
 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.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES *14,821.37*

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME *William Sanders*

SIGNATURE *William Sanders*

# ALLIED OIL & GAS SERVICES, LLC 053666

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Great Bend KS

DATE <u>6-28-17</u>	SEC <u>2-8</u>	TWP <u>16s</u>	RANGE <u>26w</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30pm</u>	JOB FINISH <u>2:30pm</u>
LEASE <u>Horschen</u>	WELL # <u>5</u>	LOCATION <u>Utica, KS 2 West</u>	COMITY <u>Ness</u>	STATE <u>KS</u>			
OLD OR (NEW) (Circle one)		<u>1/2 South, east into</u>					

CONTRACTOR Fraternity OWNER H & B  
TYPE OF JOB Port Collar

HOLE SIZE	T.D.	CEMENT
CASING SIZE <u>5 1/2"</u>	DEPTH <u>3100</u>	AMOUNT ORDERED <u>250 sacks</u>
TUBING SIZE <u>3 3/8"</u>	DEPTH <u>3100</u>	<u>60/40 60/20 gel</u>
DRILL PIPE	DEPTH	<u>20 1/2 gal on side</u>
TOOL <u>Port Collar</u>	DEPTH <u>2093</u>	
PRES. MAX	MINIMUM	COMMON <u>132</u> @ <u>16.25</u> <u>2145.00</u>
MEAS. LINE	SHOE JOINT	POZMIX <u>88</u> @ <u>8.50</u> <u>748.00</u>
CEMENT LEFT IN CSG. <u>1 DBL</u>		GEL <u>31</u> @ <u>21.25</u> <u>658.75</u>
PERFS.		CHLORIDE @
DISPLACEMENT <u>8.1 BK</u>		ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Greg R</u>
# <u>398</u>	HELPER <u>Kevin C</u>
BULK TRUCK	
# <u>244/110</u>	DRIVER <u>Joel W</u>
BULK TRUCK	
#	DRIVER <u>Vince P</u>

REMARKS:

Rig up, load hole w/ 70 bbl fresh H<sub>2</sub>O  
Open Port Collar mix 20% gel  
and 20% gel cement, Displace  
with 7 bbl fresh H<sub>2</sub>O, Close  
port collar RTI to 3093.  
Reverse out w/ 30 bbl fresh  
H<sub>2</sub>O. Wash up rig down

H & B

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

To: Allied Oil & Gas Services, LLC.  
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 X \_\_\_\_\_  
SIGNATURE X Thank You!

HANDLING <u>271.66</u>	@ <u>2.10</u>	<u>570.48</u>
MILEAGE <u>11.01 x 30x</u>	<u>2.35</u>	<u>776.30</u>
		TOTAL <u>4,898.43</u>

SERVICE

DEPTH OF JOB	<u>3100</u>	
PUMP TRUCK CHARGE		<u>2225.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>num 30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD	@	
<u>lum 30</u>	@ <u>4.00</u>	<u>120.00</u>
	@	

TOTAL 2,555.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
		TOTAL _____

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>7,453.43</u>
DISCOUNT <u>20%</u>	<u>1,490.62</u>
	<u>5,962.81</u>
IF PAID IN 30 DAYS	



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & B Petroleum Corp.

**28-16s-26w Ness, KS**

PO Box 277  
Ellinwood, KS 67526

**Horchem E**

Job Ticket: 48380

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.06.17 @ 02:24:00

## GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:15

Time Test Ended: 08:27:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: **4102.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Reference Elevations: 2655.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2645.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 6668** Outside

Press@RunDepth: 34.34 psig @ 4113.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.17

End Date: 2012.06.17

Last Calib.: 2012.06.17

Start Time: 02:24:15

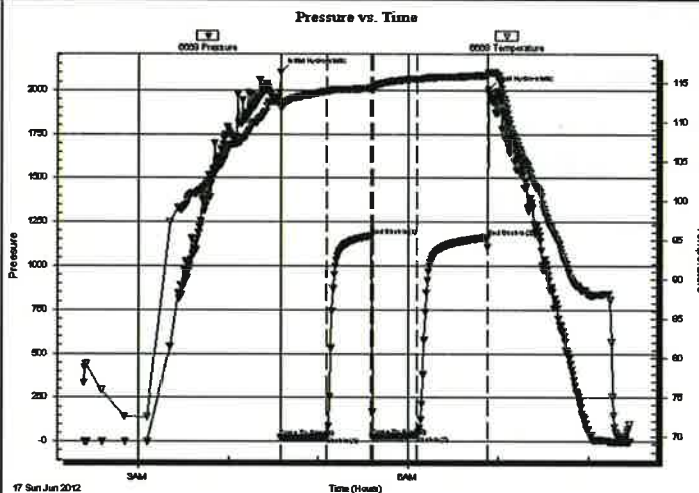
End Time: 08:27:30

Time On Btm: 2012.06.17 @ 04:35:00

Time Off Btm: 2012.06.17 @ 06:53:30

TEST COMMENT: IF: 1 1/2" Blow  
IS: No Return  
FF: 1/4" Blow  
FSI: No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.70	112.68	Initial Hydro-static
1	22.28	111.89	Open To Flow (1)
31	26.80	113.93	Shut-In(1)
61	1171.59	114.36	End Shut-In(1)
62	29.06	114.32	Open To Flow (2)
91	34.34	115.52	Shut-In(2)
138	1162.33	115.99	End Shut-In(2)
139	2003.82	116.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100m	0.42

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

H & B Petroleum Corp.

28-16s-26w Ness, KS

PO Box 277  
Ellinwood, KS 67526

**Horchem E**

Job Ticket: 48380

DST#: 1

ATTN: Jim Musgrove

Test Start: 2012.06.17 @ 02:24:00

### Tool Information

Drill Pipe:	Length: 4101.00 ft	Diameter: 3.80 inches	Volume: 57.53 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4102.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4075.00	
Shut In Tool	5.00			4080.00	
Hydraulic tool	5.00			4085.00	
Jars	5.00			4090.00	
Safety Joint	3.00			4093.00	
Packer	5.00			4098.00	28.00 Bottom Of Top Packer
Packer	4.00			4102.00	
Stubb	1.00			4103.00	
Perforations	10.00			4113.00	
Recorder	0.00	8736	Inside	4113.00	
Recorder	0.00	6668	Outside	4113.00	
Change Over Sub	1.00			4114.00	
Drill Pipe	30.00			4144.00	
Change Over Sub	1.00			4145.00	
Bullnose	5.00			4150.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**28-16s-26w Ness, KS**

PO Box 277  
Ellinwood, KS 67526

**Horchem E**

Job Ticket: 48380

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.06.17 @ 02:24:00

### 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:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100m	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:

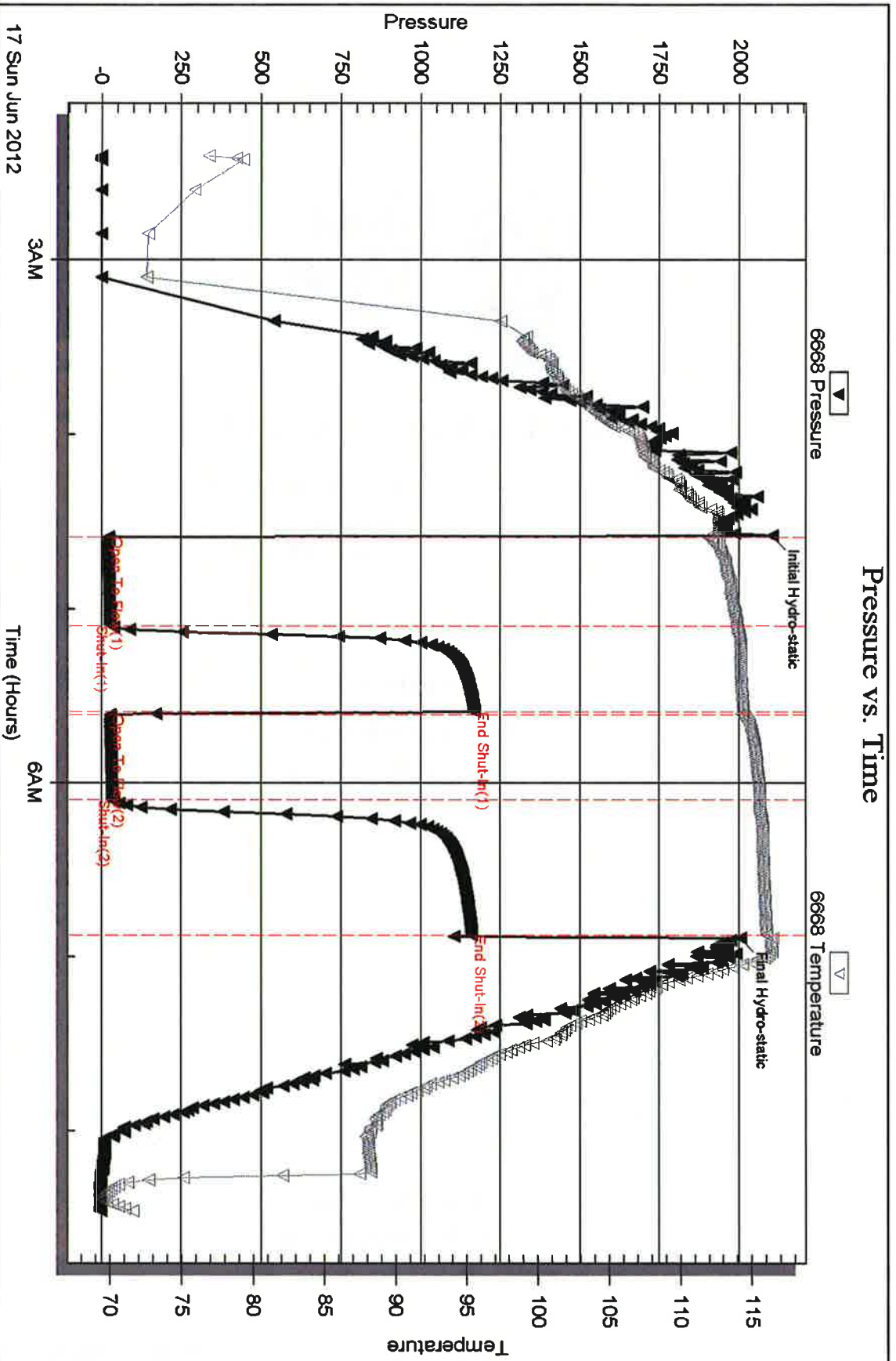
Serial #: 6668

Outside H & B Petroleum Corp.

Horchem E

DST Test Number: 1

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

H & B Petroleum Corp.

**28-16s-26w Ness,KS**

PO Box 277  
Ellinwood, KS 67526

**Horchem E**

Job Ticket: 48381

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2012.06.18 @ 00:23:15

### GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:06:00

Time Test Ended: 06:58:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: **4559.00 ft (KB) To 4570.00 ft (KB) (TVD)**

Reference Elevations: 2655.00 ft (KB)

Total Depth: 4570.00 ft (KB) (TVD)

2645.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8736** Inside

Press@RunDepth: 257.96 psig @ 4560.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.18

End Date: 2012.06.18

Last Calib.: 2012.06.19

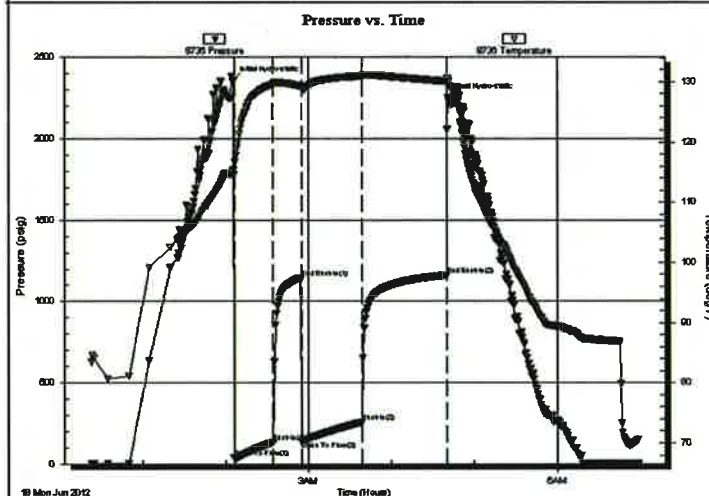
Start Time: 00:23:15

End Time: 06:58:15

Time On Btm: 2012.06.18 @ 02:05:45

Time Off Btm: 2012.06.18 @ 04:41:15

TEST COMMENT: IF:BOB in 7 min  
IS: Return blow built to 2"  
FF:BOB in 8 min.  
FS:Return blow built to 6"



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.81	115.38	Initial Hydro-static
1	39.25	114.61	Open To Flow (1)
29	134.38	129.58	Shut-In(1)
49	1145.16	129.31	End Shut-In(1)
50	140.83	128.92	Open To Flow (2)
94	257.96	130.94	Shut-In(2)
155	1161.64	130.09	End Shut-In(2)
156	2253.05	130.05	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP=186	0.00
144.00	Free oil	2.02
62.00	gco 20%g 80%o	0.87
62.00	gcow m 5% g 5% o 5%w 85% m	0.87
124.00	ocw m 5% o 30% m 65% w	1.74
186.00	sw 100%sw	2.61

\* 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.

**28-16s-26w Ness, KS**

PO Box 277  
Ellinwood, KS 67526

**Horchem E**

Job Ticket: 48381

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2012.06.18 @ 00:23:15

### Tool Information

Drill Pipe:	Length: 4536.00 ft	Diameter: 3.80 inches	Volume: 63.63 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4559.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4532.00	
Shut In Tool	5.00			4537.00	
Hydraulic tool	5.00			4542.00	
Jars	5.00			4547.00	
Safety Joint	3.00			4550.00	
Packer	5.00			4555.00	28.00 Bottom Of Top Packer
Packer	4.00			4559.00	
Stubb	1.00			4560.00	
Recorder	0.00	8736	Inside	4560.00	
Recorder	0.00	6668	Outside	4560.00	
Perforations	5.00			4565.00	
Bullnose	5.00			4570.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & B Petroleum Corp.

**28-16s-26w Ness,KS**

PO Box 277  
Ellinwood, KS 67526

**Horchem E**

Job Ticket: 48381

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2012.06.18 @ 00:23:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	GIP=186	0.000
144.00	Free oil	2.020
62.00	gco 20%g 80%o	0.870
62.00	gcow m 5% g 5% o 5%w 85% m	0.870
124.00	ocw m 5% o 30% m 65% w	1.739
186.00	sw 100%sw	2.609

Total Length: 578.00 ft      Total Volume: 8.108 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 37@70 corrected to 36@ 60

RW= .431@72.5=17,000 ppm

Serial #: 8736

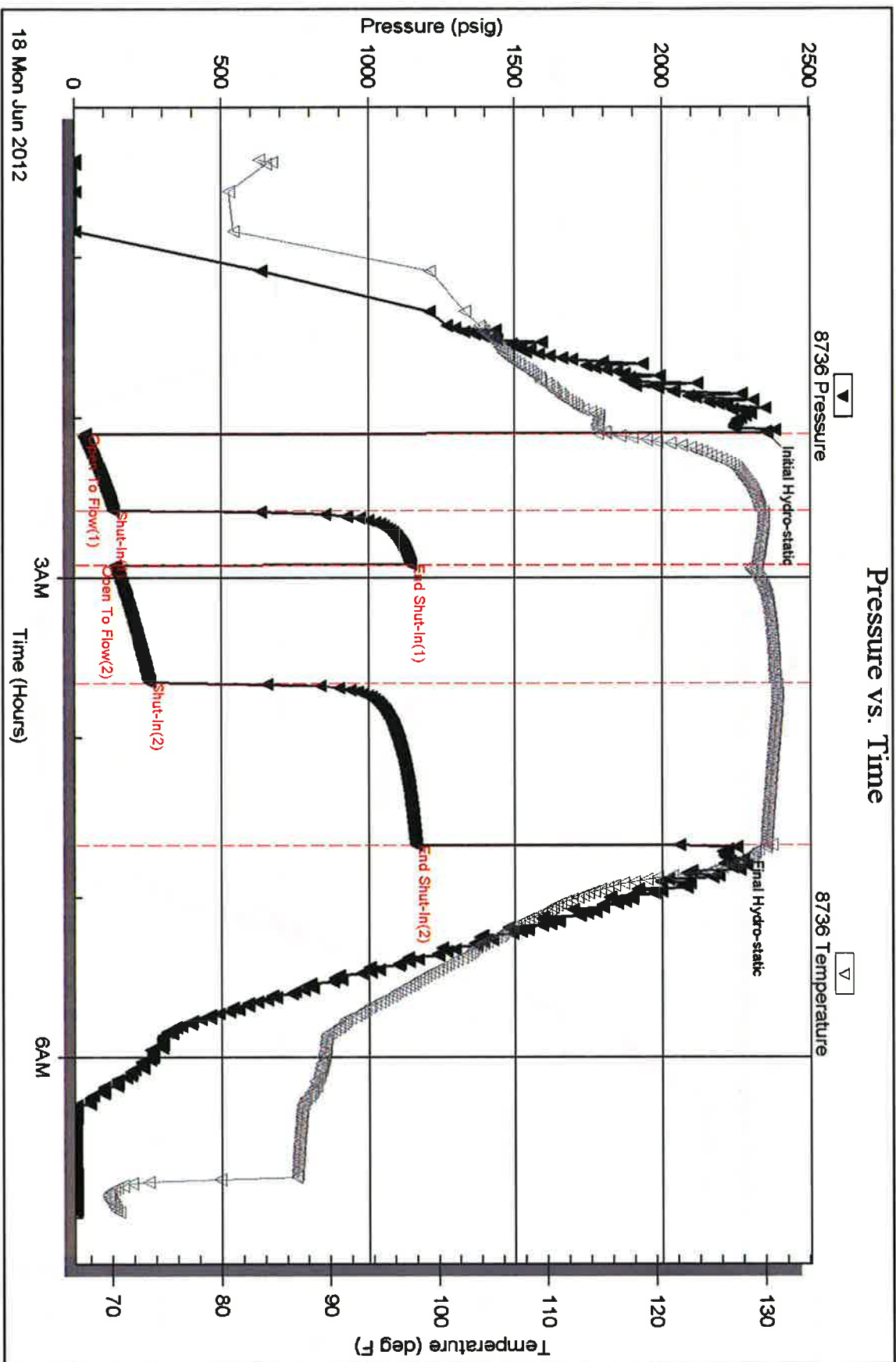
Inside

H & B Petroleum Corp.

Horchem E

DST Test Number: 2

### Pressure vs. Time



Trickle Testing, Inc

Ref. No: 48381

Printed: 2012.06.20 @ 11:44:00

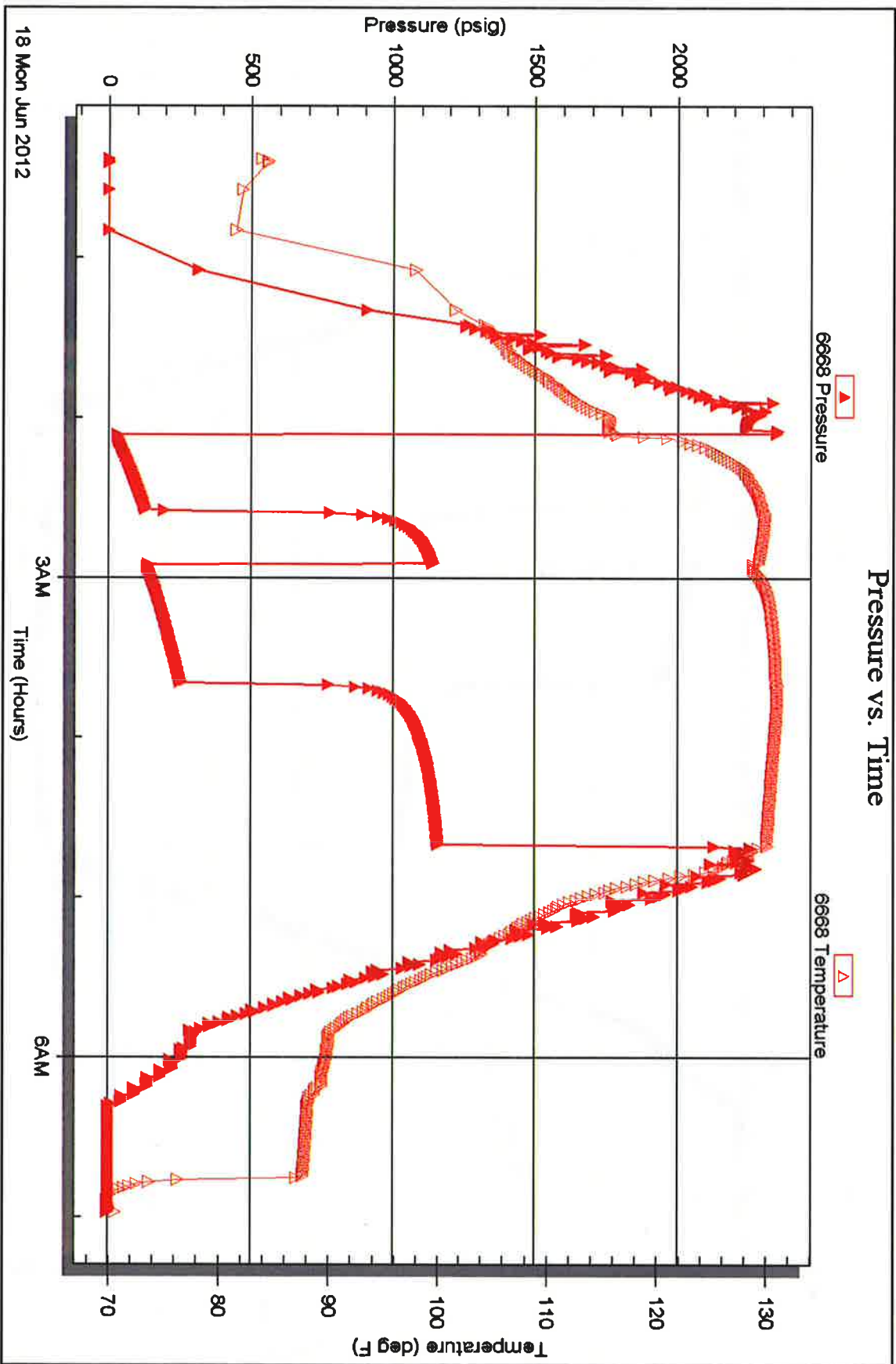


Serial #: 6668

Outside H & B Petroleum Corp.

Horchem E

DST Test Number: 2



18 Mon Jun 2012

Triotech Testing, Inc

Ref. No: 48381

Printed: 2012.06.20 @ 11:44:00



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48380

Well Name & No. Horchem E Test No. 1 Date 6/16/12  
 Company H&B Petroleum Corp. Elevation 2645 2655 KB 2645 GL  
 Address PO Box 277 Ellinwood, Ks 67526  
 Co. Rep / Geo. Jim Musgrove Rig Southwind #2  
 Location: Sec. 28 Twp. 16S Rge. 26W Co. Ness State Ks

Interval Tested 4102-4150 Zone Tested Lansing  
 Anchor Length 48 Drill Pipe Run 4101 Mud Wt. 9.2  
 Top Packer Depth 4098 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 4102 Wt. Pipe Run 0 WL 7.6  
 Total Depth 4150 Chlorides 2200 ppm System LCM 2  
 Blow Description 1 1/2" Blow  
No Return  
1/4" Blow  
No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>M</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 116 Gravity — API RW — @ — ° F Chlorides — ppm  
 (A) Initial Hydrostatic 2103  Test 1250.00 T-On Location H-16 23.15  
 (B) First Initial Flow 22  Jars 250.00 T-Started 2:24  
 (C) First Final Flow 27  Safety Joint 75.00 T-Open 4:35  
 (D) Initial Shut-In 1172  Circ Sub N/C T-Pulled 6:50  
 (E) Second Initial Flow 29  Hourly Standby T-Out 8:28  
 (F) Second Final Flow 34  Mileage 100 RT = 155.00 Comments No Steps  
 (G) Final Shut-In 1162  Sampler — Up U-Door. Hit  
 (H) Final Hydrostatic 2004  Straddle — a Bridge on Stand #34  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 30  Shale Packer  
 Initial Shut-In 30  Extra Packer  
 Final Flow 30  Extra Recorder  
 Final Shut-In 45  Day Standby  
 Accessibility 150.00 Sub Total 0  
 Sub Total 1880.00 Total 1880 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative Mike Roberts  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one 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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48381

Well Name & No. Horchem E Test No. 2 Date 6-18-12  
 Company H+B Petroleum Corp Elevation 2655 KB 2645 GL  
 Address P.O. Box 277 Ellinwood KS 67526  
 Co. Rep / Geo. Jim Musgrave Rig Southwind #2  
 Location: Sec. 28 Twp. 76S Rge. 26W Co. Ness State KS

Interval Tested 4559-4570 Zone Tested Miss  
 Anchor Length 11 Drill Pipe Run 4536 Mud Wt. 9.3  
 Top Packer Depth 4554 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 4559 Wt. Pipe Run 0 WL 9.2  
 Total Depth 4570 Chlorides 2500 ppm System LCM 2

Blow Description IF: BOB in 7 Min.  
IS: Return Blow Built to 2"  
FF: BOB in 8 Min  
FS: Return Blow Built to 6"

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	Feet of <u>GIP = 186</u>				
<u>144</u>	Feet of <u>Free Oil</u>				
<u>62</u>	Feet of <u>900</u>	<u>20</u>	<u>80</u>		
<u>62</u>	Feet of <u>900m</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>85</u>
<u>134</u> <u>186</u>	Feet of <u>900m SW</u>	<u>5</u>	<u>5</u>	<u>65</u>	<u>30</u>
Rec Total	<u>578</u> BHT <u>130</u>	Gravity <u>36</u>	API RW <u>431</u> @ <u>72.9</u> °F	Chlorides <u>17,000</u> ppm	

(A) Initial Hydrostatic  Test 1250.00 T-On Location 22:15  
 (B) First Initial Flow  Jars 250.00 T-Started 12:23  
 (C) First Final Flow  Safety Joint 75.00 T-Open 02:05  
 (D) Initial Shut-In  Circ Sub NC T-Pulled 04:40  
 (E) Second Initial Flow  Hourly Standby \_\_\_\_\_ T-Out 06:58  
 (F) Second Final Flow  Mileage 100 RT = \$155.00 Comments \_\_\_\_\_  
 (G) Final Shut-In  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility 150.00  
 Sub Total 1880.00

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1880  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 20  
 Final Flow 45  
 Final Shut-In 60

Our Representative M. Roberts