



KANSAS CORPORATION COMMISSION 1080072  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5123  
Name: Pickrell Drilling Company, Inc.  
Address 1: 100 S MAIN STE 505  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67202 + 3738  
Contact Person: Larry J. Richardson  
Phone: ( 316 ) 262-8427  
CONTRACTOR: License # 5123  
Name: Pickrell Drilling Company, Inc.  
Wellsite Geologist: Jerry Smith  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_  
04/10/2012    04/19/2012    04/19/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-135-25375-00-00  
Spot Description: 100'S & 40'E of C N/2 S/2 NW SWNWSEW  
SW NW SE NW Sec. 9 Twp. 17 S. R. 25  East  West  
1750 Feet from  North /  South Line of Section  
1360 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ness  
Lease Name: Gless 'E' Well #: 2  
Field Name: Stutz East  
Producing Formation: N/A  
Elevation: Ground: 2495 Kelly Bushing: 2502  
Total Depth: 4483 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 269 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: 3500 ppm Fluid volume: 400 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 05/02/2012



1080072

Operator Name: Pickrell Drilling Company, Inc. Lease Name: Giess 'E' Well #: 2  
 Sec. 9 Twp. 17 S. R. 25  East  West County: Ness

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Sample  Name Attached Top Attached Datum Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12.25	8.625	23	269	Class A	160	2% gel, 3% CC

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: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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 (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Pickrell Drilling Company, Inc.
Well Name	Giess 'E' 2
Doc ID	1080072

Tops

T/Anhydrite	1845	( +657)
B/Anhydrite	1877	( +625)
Heebner	3822	(-1320)
Lansing	3866	(-1364)
Pawnee	4290	(-1788)
Fort Scott	4362	(-1860)
Cherokee	4388	(-1886)
Mississippi	4454	(-1952)
Mississippi Por	4465	(-1963)

# ALLIED OIL & GAS SERVICES, LLC 053515

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

SERVICE POINT:  
Great Bend, KS.

DATE <u>4-19-12</u>	SEC <u>9</u>	TWP <u>17s</u>	RANGE <u>25w</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:20 AM</u>
LEASE <u>Gross</u>	WELL # <u>2</u>	LOCATION <u>Arnold, KS 3 west</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>3 south east info</u>					

CONTRACTOR Pickrell Rig #1 OWNER Pickrell Drilling  
 TYPE OF JOB Rotary Plug  
 HOLE SIZE 1 7/8 T.D. 4483  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

CEMENT		
AMOUNT ORDERED	<u>250 sks, 60/40</u>	
<u>POZ 4% gel 1/4 floss</u>		
COMMON	<u>150</u>	@ <u>16.25</u> <u>2,437.00</u>
POZMIX	<u>100</u>	@ <u>8.50</u> <u>850.00</u>
GEL	<u>9</u>	@ <u>21.25</u> <u>191.00</u>
CHLORIDE		@ _____
ASC		@ _____
HANDLING	<u>269</u>	@ <u>2.10</u> <u>564.00</u>
MILEAGE	<u>11 x 31</u>	@ <u>2.35</u> <u>801.00</u>
		TOTAL <u>4,843.00</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Greg L  
 # 366 HELPER Kevin E  
 BULK TRUCK DRIVER Kevin W  
 # 402/841  
 BULK TRUCK DRIVER \_\_\_\_\_  
 # \_\_\_\_\_

**REMARKS:**  
1st plug 1910' mix 50 sks  
2nd plug 1170' mix 40 sks  
3rd plug 600' mix 40 sks  
4th plug 300' mix 20 sks  
5th plug 100' mix 20 sks  
bulk 50 sks Kethok  
MIX 00 sks mouse hole

**SERVICE**

DEPTH OF JOB		
PUMP TRUCK CHARGE	<u>1250.00</u>	<del>1250.00</del>
EXTRA FOOTAGE	@ _____	
MILEAGE	<u>Hum 62</u>	@ <u>7.00</u> <u>434.00</u>
MANIFOLD	@ _____	
	<u>Lum 62</u>	@ <u>4.00</u> <u>248.00</u>
		TOTAL <u>1932.00</u>

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

**PLUG & FLOAT EQUIPMENT**

_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
		TOTAL _____

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 Mike Kern  
 SIGNATURE X Mike Kern  
Thank You!

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 6,775.00  
 70% 20% 2,096.00  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
4,679.00

# ALLIED CEMENTING CO., LLC. 042464

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

SERVICE POINT:

*6200 S. Grand St  
6-1-11-12*

DATE <i>4-12-12</i>	SEC. <i>9</i>	TWP. <i>17S</i>	RANGE <i>25E</i>	CALLED OUT	ON LOCATION	JOB START <i>12:30</i>	JOB FINISH <i>1:30</i>
LEASE <i>6-1-55</i>		WELL # <i>2</i>		LOCATION <i>Almidy, KS Street 3rd St</i>		COUNTY	STATE
OLD OR <u>NEW</u> (Circle one)				<i>First int</i>			

CONTRACTOR *Pickrell Drilling*  
 TYPE OF JOB *Surf Casing*  
 HOLE SIZE *12 1/4* T.D.  
 CASING SIZE *4 5/8* DEPTH *274*  
 TUBING SIZE DEPTH  
 DRILL PIPE *4 1/2* DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. *15 ft*  
 PERFS.  
 DISPLACEMENT *16.49 bbls fresh water*

OWNER *Pickrell Drilling*  
 CEMENT  
 AMOUNT ORDERED *160 SKS class A 3% cc 27.9cc*

EQUIPMENT  
 PUMP TRUCK CEMENTER *Dustin*  
 # *398* HELPER *Kerry B*  
 BULK TRUCK  
 # *3-11* DRIVER *Shane K*  
 BULK TRUCK  
 # DRIVER

COMMON	<i>160</i>	@ <i>16.25</i>	<i>2600.00</i>
POZMIX		@	
GEL	<i>3</i>	@ <i>21.25</i>	<i>63.75</i>
CHLORIDE	<i>6</i>	@ <i>58.20</i>	<i>349.20</i>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>173.5</i>	@ <i>2.10</i>	<i>364.35</i>
MILEAGE	<i>7.91 x 31 x.</i>	@ <i>2.35</i>	<i>576.28</i>
TOTAL			<i>3953.38</i>

**REMARKS:**

*Pipe on bottom break circulation with 3% cc  
 mix 160 SKS class A 3% cc 27.9cc  
 D.S. place 16.49 fresh water  
 shut in  
 Cement did circulation  
 Big Down*

**SERVICE**

DEPTH OF JOB	<i>274</i>		
PUMP TRUCK CHARGE		@ <i>1125.00</i>	
EXTRA FOOTAGE		@	
MILEAGE	<i>HVM 62</i>	@ <i>7.00</i>	<i>434.00</i>
MANIFOLD		@	
	<i>hvm 62</i>	@ <i>4.00</i>	<i>248.00</i>
		@	
TOTAL			<i>1807.00</i>

CHARGE TO: *Pickrell Drilling Inc.*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
TOTAL		_____

To Allied Cementing Co., 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.

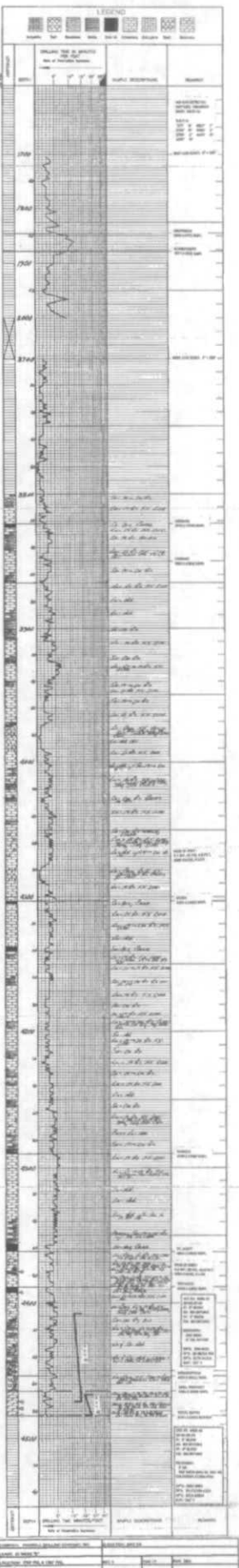
SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES *5.760.56*  
 DISCOUNT *2820.22* *1.781.22* IF PAID IN 30 DAYS

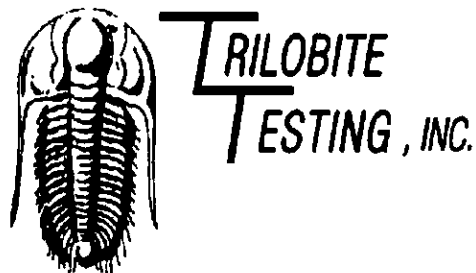
PRINTED NAME *Mike Kern*  
 SIGNATURE *X Mike Kern*  
*Thank You !!*

*3.979.34*

**JERRY A. SMITH**  
 JERRY A. SMITH & COMPANY  
 1000 WEST 10TH AVENUE  
 DENVER, COLORADO 80202  
 PHONE: 333-1111

PROJECT NO.	DATE
DESCRIPTION	BY
SCALE	CHECKED
APP. BY	DATE
REVISIONS	





## DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co, Inc.**

100 S. Main St. STE 505  
Wichita, KS 67202

ATTN: Jerry Smith

### **Giess E #2**

### **9-17s-25w Ness,KS**

Start Date: 2012.04.17 @ 21:12:00

End Date: 2012.04.18 @ 05:51:15

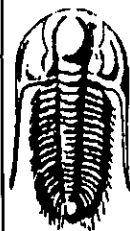
Job Ticket #: 46687                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.25 @ 13:39:49



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Pickrell Drilling Co, Inc.

9-17s-25w Ness, KS

100 S. Main St. STE 505  
Wichita, KS 67202

Giess E #2

Job Ticket: 46687

DST#: 1

ATTN: Jerry Smith

Test Start: 2012.04.17 @ 21:12:00

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:00

Time Test Ended: 05:51:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: **4408.00 ft (KB) To 4473.00 ft (KB) (TVD)**

Reference Elevations: 2502.00 ft (KB)

Total Depth: 4408.00 ft (KB) (TVD)

2492.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: **8522** Outside

Press@RunDepth: 74.06 psig @ 4409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.17

End Date:

2012.04.18

Last Calib.: 2012.04.18

Start Time: 21:12:05

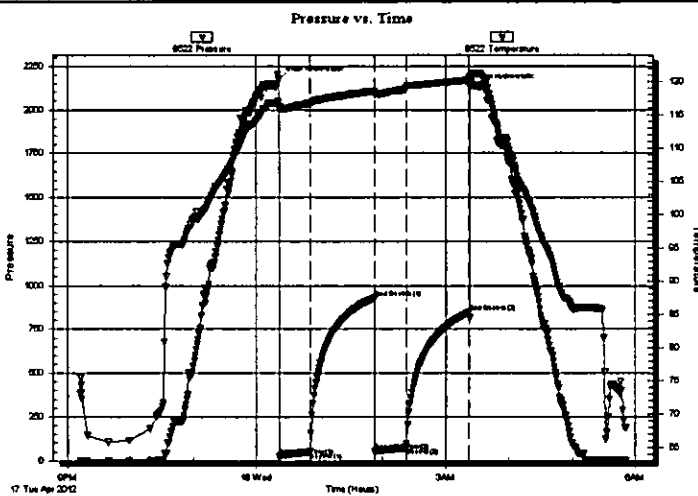
End Time:

05:51:15

Time On Btm: 2012.04.18 @ 00:21:45

Time Off Btm: 2012.04.18 @ 03:23:15

TEST COMMENT: IF: 3" blow.  
IS: No return.  
FF: 1" Blow.  
FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.34	116.98	Initial Hydro-static
1	25.38	116.11	Open To Flow (1)
29	50.09	116.73	Shut-In(1)
91	929.22	118.57	End Shut-In(1)
91	54.10	118.10	Open To Flow (2)
121	74.06	119.16	Shut-In(2)
181	846.04	120.27	End Shut-In(2)
182	2130.72	120.69	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
100.00	mud 100m (6" oil on top)	0.49

### Gas Rates

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







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

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pickrell Drilling Co, Inc.

**9-17s-25w Ness,KS**

100 S. Main St. STE 505  
Wichita, KS 67202

**Giess E #2**

Job Ticket: 46687

**DST#: 1**

ATTN: Jerry Smith

Test Start: 2012.04.17 @ 21:12:00

### Tool Information

Drill Pipe:	Length: 4294.00 ft	Diameter: 3.20 inches	Volume: 42.71 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: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 43.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4408.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4392.00	
Hydraulic tool	5.00			4397.00	
Safety Joint	2.00			4399.00	
Packer	5.00			4404.00	21.00 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Recorder	0.00	8522	Outside	4409.00	
Recorder	0.00	8678	Inside	4409.00	
Perforations	27.00			4436.00	
Change Over Sub	1.00			4437.00	
Drill Pipe	32.00			4469.00	
Bullnose	1.00			4470.00	
Bullnose	3.00			4473.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Pickrell Drilling Co, Inc.

9-17s-25w Ness,KS

100 S. Main St. STE 505  
Wichita, KS 67202

Giess E #2

Job Ticket: 46687

DST#: 1

ATTN: Jerry Smith

Test Start: 2012.04.17 @ 21:12:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	mud 100m (6" oil on top)	0.492

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

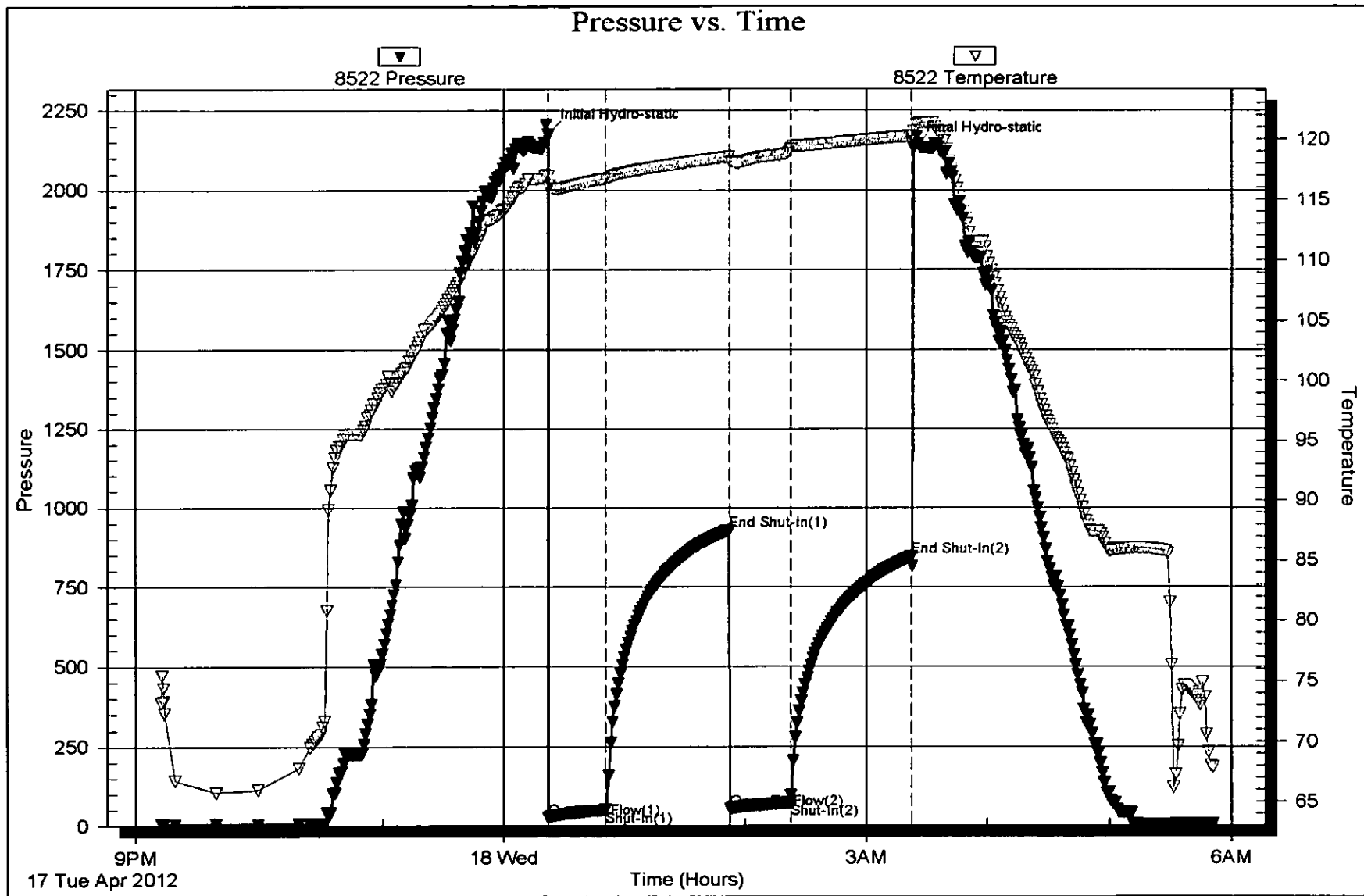
Num Gas Bombs: 0

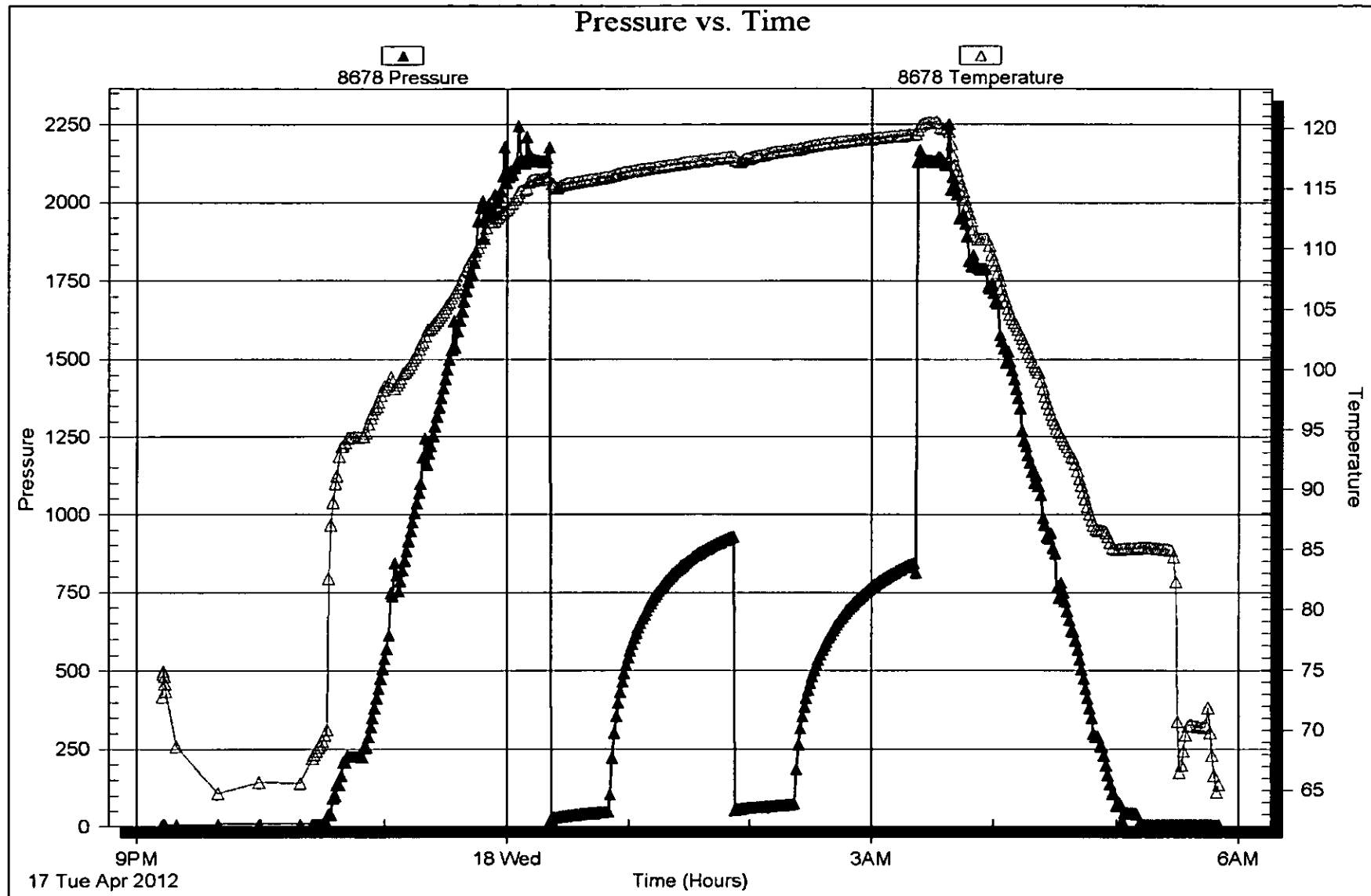
Serial #:

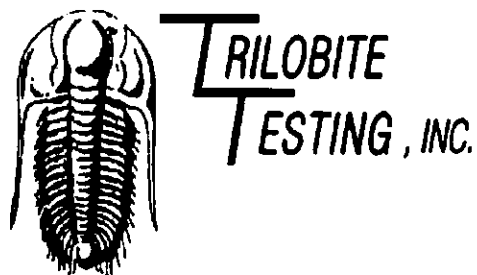
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Co, Inc.**

100 S. Main St. STE 505  
Wichita, KS 67202

ATTN: Jerry Smith

### **Giess E #2**

### **9-17s-25w Ness,KS**

Start Date: 2012.04.18 @ 13:28:00

End Date: 2012.04.18 @ 22:43:45

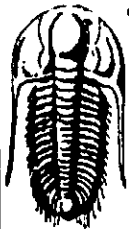
Job Ticket #: 46688                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.25 @ 13:38:18



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Pickrell Drilling Co, Inc.

9-17s-25w Ness,KS

100 S. Main St. STE 505  
Wichita, KS 67202

**Giess E #2**

Job Ticket: 46688

**DST#: 2**

ATTN: Jerry Smith

Test Start: 2012.04.18 @ 13:28:00

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 15:46:45

Time Test Ended: 22:43:45

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Bradley Walter**

Unit No: **53**

Interval: **4468.00 ft (KB) To 4483.00 ft (KB) (TVD)**

Reference Elevations: **2502.00 ft (KB)**

Total Depth: **4408.00 ft (KB) (TVD)**

**2492.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **10.00 ft**

**Serial #: 8522**

**Outside**

Press@RunDepth: **121.29 psig @ 4469.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.04.18**

End Date:

**2012.04.18**

Last Calib.: **2012.04.18**

Start Time: **13:28:05**

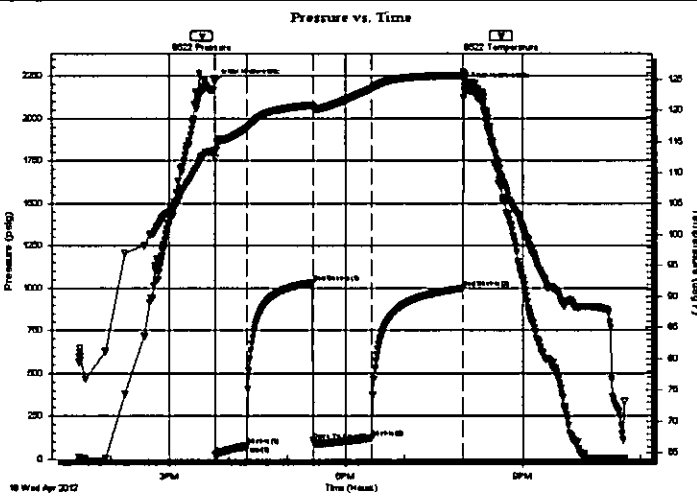
End Time:

**22:43:45**

Time On Btm: **2012.04.18 @ 15:46:30**

Time Off Btm: **2012.04.18 @ 20:01:15**

TEST COMMENT: IF: 5" blow .  
IS: No return.  
FF: 6" Blow .  
FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2212.88	113.56	Initial Hydro-static
1	24.91	112.37	Open To Flow (1)
33	77.25	117.16	Shut-In(1)
100	1032.86	120.87	End Shut-In(1)
101	108.30	120.51	Open To Flow (2)
161	121.29	123.48	Shut-In(2)
254	998.00	125.61	End Shut-In(2)
255	2189.31	125.81	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 10m 90w (oil spots)	1.57
2.00	oil 100o	0.02

\* Recovery from multiple tests

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pickrell Drilling Co, Inc.

**9-17s-25w Ness,KS**

100 S. Main St. STE 505  
Wichita, KS 67202

**Giess E #2**

Job Ticket: 46688

**DST#: 2**

ATTN: Jerry Smith

Test Start: 2012.04.18 @ 13:28:00

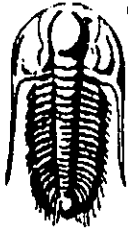
### Tool Information

Drill Pipe:	Length: 4357.00 ft	Diameter: 3.20 inches	Volume: 43.34 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: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 43.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4468.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4452.00	
Hydraulic tool	5.00			4457.00	
Safety Joint	2.00			4459.00	
Packer	5.00			4464.00	21.00 Bottom Of Top Packer
Packer	4.00			4468.00	
Stubb	1.00			4469.00	
Recorder	0.00	8522	Outside	4469.00	
Recorder	0.00	8678	Inside	4469.00	
Perforations	11.00			4480.00	
Bullnose	3.00			4483.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Pickrell Drilling Co, Inc.

**9-17s-25w Ness,KS**

100 S. Main St. STE 505  
Wichita, KS 67202

**Giess E #2**

Job Ticket: 46688

**DST#: 2**

ATTN: Jerry Smith

Test Start: 2012.04.18 @ 13:28:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
220.00	mcw 10m 90w (oil spots)	1.570
2.00	oil 100o	0.020

Total Length: 222.00 ft      Total Volume: 1.590 bbl

Num Fluid Samples: 0

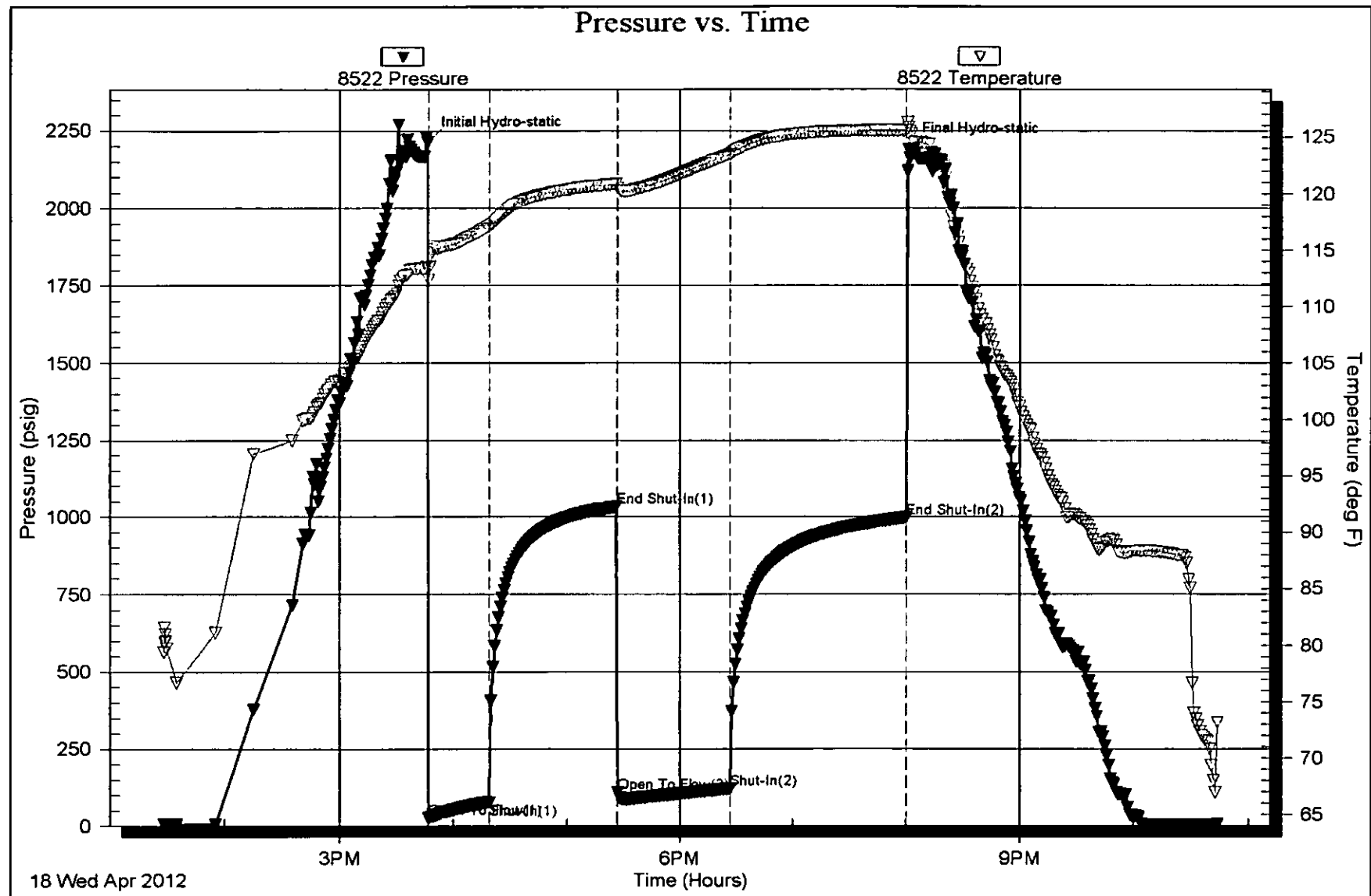
Num Gas Bombs: 0

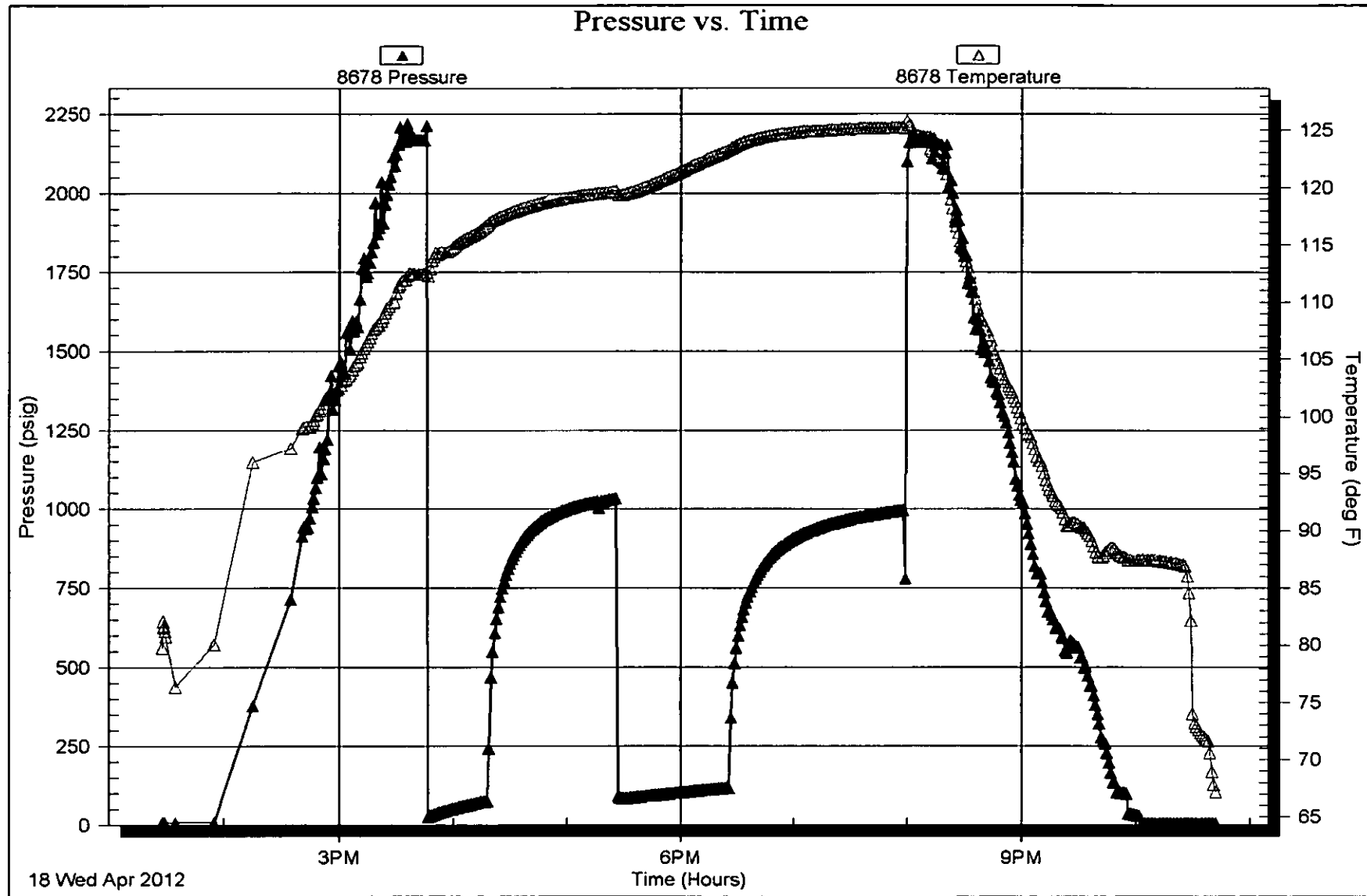
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .290 @ 61F = 27,000 ppm







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## RECEIVED Test Ticket

APR 19 2012

NO. 46687

BY: \_\_\_\_\_

Well Name & No. Gress "E" #2 Test No. 1 Date 4/18/12

Company Pickrell Drilling Co, Inc Elevation 2502 KB 2492 GL \_\_\_\_\_

Address 100 S. Main St. STE 505 Wichita, Ks 67202

Co. Rep / Geo. Jerry Smith Rig Pickrell #1

Location: Sec. 9 Twp. 17S Rge. 25W Co. Noss State Ks

Interval Tested 4408 4473 Zone Tested Mississippian

Anchor Length 65' Drill Pipe Run 4294 Mud Wt. 9.4

Top Packer Depth 4403 Drill Collars Run 123 Vis 38

Bottom Packer Depth 4408 Wt. Pipe Run 0 Wt. 10.0

Total Depth 4473 Chlorides 3800 ppm System LCM 0

Blow Description IF: 3" blow

JST: No return

FF: 1" blow

FST: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>MUD</u>			<u>100%</u>	
	<u>6 inches oil on top</u>				

Rec Total 100 BHT 121 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2174  Test 1200' T-On Location 20:00 4/18

(B) First Initial Flow 25  Jars T-Started 21:12 4/18

(C) First Final Flow 50  Safety Joint 75' T-Open 00:22 4/18

(D) Initial Shut-In 929  Circ Sub N/C T-Pulled 03:22

(E) Second Initial Flow 54  Hourly Standby T-Out 05:50 4/18

(F) Second Final Flow 74  Mileage 111.8/T 172.05 Comments \_\_\_\_\_

(G) Final Shut-In 846  Sampler \_\_\_\_\_

(H) Final Hydrostatic 2131  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_

Ruined Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_

Initial Shut-In 60  Extra Packer \_\_\_\_\_

Final Flow 30  Extra Recorder \_\_\_\_\_

Final Shut-In 60  Day Standby \_\_\_\_\_

Accessibility \_\_\_\_\_

Sub Total 1497.05  MP/DST Disc'l \_\_\_\_\_

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

Trilobite Testing Inc. shall not be liable for damaged or 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

RECEIVED  
APR 19 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 46688

Well Name & No. Gress E #2 Test No. 2 Date 4/18/12  
 Company Pickrell Drilling Co, Inc Elevation 2502 KB 2492 GL  
 Address 100 S. Main St STE 505 Wichita, Ks 67202  
 Co. Rep / Geo. Jerry Smith Rig Pickrell #1  
 Location: Sec. 9 Twp. 17S Rgo. 25W Co. Ness State Ks

Interval Tested 4468-4483 Zone Tested Mississippian  
 Anchor Length 15' Drill Pipe Run 4357 Mud Wt. 9.2  
 Top Packer Depth 4463 Drill Collars Run 123 Vis 44  
 Bottom Packer Depth 4468 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4483 Chlorides 3500 ppm System LCM 0  
 Blow Description IF: 5" blow.  
IS: No return.  
FF: 6" blow.  
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>DIL</u>	<u>100</u>			
<u>220</u>	<u>MLW</u>		<u>90</u>	<u>10</u>	

Rec Total 222 BHT 126 Gravity — API RW 240 @ 61 °F Chlorides 27000 ppm  
 (A) Initial Hydrostatic 2213  Test 1250 T-On Location 1300  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 1325  
 (C) First Final Flow 77  Safety Joint 75" T-Open 1547  
 (D) Initial Shut-In 1033  Circ Sub N/C T-Pulled 2057  
 (E) Second Initial Flow 108  Hourly Standby \_\_\_\_\_ T-Out 2242  
 (F) Second Final Flow 121  Mileage 111.87 178.05 Comments \_\_\_\_\_  
 (G) Final Shut-In 998  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2189  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 60  Day Standby \_\_\_\_\_ Total 1497.05  
 Final Shut-In 90  Accessibility \_\_\_\_\_ MP/DST Disc'l \_\_\_\_\_  
 Sub Total 1497.05

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