

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

RECEIVED

AUG 23 2010

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

8/23/12

Operator: License # 7311  
Name: Shakespeare Oil Company, Inc.  
Address: 202 West Main Street  
City/State/Zip: Salem, IL 62881  
Purchaser: NCRA  
Operator Contact Person: Donald R. Williams  
Phone: (618) 548-1585  
Contractor: Name: HD Drilling, LLC  
License: 33935  
Wellsite Geologist: Tim Priest

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

7/14/10	7/26/10	8/12/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 109-20916 -0000  
County: Logan  
NE SE SW NW Sec. 22 Twp. 13 S. R. 32  East  West  
2280 feet from S /  (circle one) Line of Section  
1180 feet from E /  (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE  SW  
Lease Name: Glassman Well #: 4-22  
Field Name: Stratford SW  
Producing Formation: Morrow Sand  
Elevation: Ground: 3010' Kelly Bushing: 3020'  
Total Depth: 4720' Plug Back Total Depth: 4669'  
Amount of Surface Pipe Set and Cemented at 224' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 2367' 2470' Feet  
If Alternate II completion, cement circulated from 2470' 2470'  
feet depth to surface w/ 365 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content 6500 ppm Fluid volume 2500 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Donald R. Williams

Title: Vice President Date: 8/18/10

Subscribed and sworn to before me this 18<sup>th</sup> day of August, 2010.

Notary Public: Melissa A. Noel

Date Commission Expires: 11-6-11



KCC Office Use ONLY

Letter of Confidentiality Received 8/23/10 - 8/23/12

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: Shakespeare Oil Company, Inc. Lease Name: Glassman Well #: 4-22  
 Sec. 22 Twp. 13 S. R. 32  East  West County: Logan

**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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum  
 See Geological Report

List All E. Logs Run:

Array Ind/SP/GR, CNL/CDL/GR/ML, Sonic

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	224'	Class A	165	2% gel, 3% CaCl
Production	7 7/8"	5 1/2"	15.5#	4716'	ASC	175	5#/sk coal-seal & 3/4% CD-31

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2467'-0'	Pozmix	365	65-35 poz w/8% gel & 1/4"/sk flocele

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
			Depth
6	Morrow Sand	shot 8' gas gun	4596-4604
		350 gal MOD 101 Acid	
		5000 gal gelled 2% KCl wtr frac	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4596'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
8/12/10		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	64		15		31

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  
 Production Interval:  Other (Specify) \_\_\_\_\_

*Shakespeare Oil Company*

INCORPORATED  
202 WEST MAIN STREET  
SALEM, ILLINOIS  
62881  
WWW.SHAKESPEARE-OIL.COM

July 18, 2010

Kansas Corporation Commission  
Conservation Division  
130 South Market, Suite 2078  
Wichita, Kansas 67202-3801

KCC  
AUG 23 2010  
CONFIDENTIAL

Re: Form ACO-1  
Glassman #4-22  
Logan County, Kansas

RECEIVED  
AUG 23 2010


KCC WICHITA

Ladies and Gentlemen:

Enclosed please find the above referenced form for the Glassman #4-22 producing well located in Logan County, Kansas. Please keep information CONFIDENTIAL for as long as regulations allow.

If you require additional information, please contact me at 618-548-1585 or email me at don@shakespeare-oil.com.

Very truly yours,  
Shakespeare Oil Company, Inc.



Donald R. Williams  
Vice President

Encls.

cc: Well File  
Dale Helpingstine



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
 Fax: (785) 483-5566

# INVOICE

Invoice Number: 123523  
 Invoice Date: Jul 14, 2010  
 Page: 1

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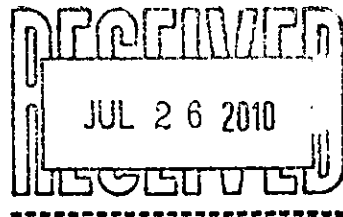
**Bill To:**  
 Shakespeare Oil Co., Inc.  
 202 West Main St.  
 Salem, IL 62881

*file copy*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Glassman #4-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 14, 2010	8/13/10

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	15.45	2,549.25
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
174.00	SER	Handling	2.40	417.60
1.00	SER	Handling Mileage Charge	312.00	312.00
1.00	SER	Surface	1,018.00	1,018.00
15.00	SER	Pump Truck Mileage	7.00	105.00

INT



Subtotal	4,813.45
Sales Tax	216.14
Total Invoice Amount	5,029.59
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,029.59</b>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 962.69

ONLY IF PAID ON OR BEFORE  
Aug 8, 2010

# ALLIED CEMENTING CO., LLC. 038899

KCC

AUG 23 2010

SERVICE POINT:

*Oakley, KS*

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

CONFIDENTIAL

DATE <u>7/19/10</u>	SEC. <u>22</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 AM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Glassman</u>	WELL # <u>4-22</u>	LOCATION <u>Oakley 13S 1W 11/2S</u>			COUNTY <u>Logan</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>Into</u>			

CONTRACTOR H-Drilling

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 226'

CASING SIZE 8 5/8 DEPTH 226'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 13.44

OWNER Same

CEMENT AMOUNT ORDERED 165 can 390cc  
290 gal

EQUIPMENT

PUMP TRUCK # \_\_\_\_\_ CEMENTER Alan

HELPER Wayne

BULK TRUCK # 347 DRIVER Jerry

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON 165 @ 15.45 2549.25

POZMIX @ \_\_\_\_\_

GEL 3 @ 20.00 62.40

CHLORIDE 6 @ 58.00 348.00

ASC @ \_\_\_\_\_

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KCC WICHITA

HANDLING 174 @ 2.40 417.60

MILEAGE 10.5K/mile - minimum 312.00

TOTAL 3690.05

REMARKS:

Run 8 5/8 Cas, Circulate Min 165 SK, Can 390cc 290 gal, Displace 13.44 bbl to O

Cement Did Circulate.

Thank You Alan, Wayne, Jerry

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 1018.00

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE 15 mile @ 7.00 105.00

MANIFOLD @ \_\_\_\_\_

CHARGE TO: Shakespeare

STREET \_\_\_\_\_

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

TOTAL 1123.00

PLUG & FLOAT EQUIPMENT

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

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

TOTAL CHARGES \_\_\_\_\_

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

To Allied Cementing Co., LLC. THANKS!

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 Doug Roberts

SIGNATURE Doug Roberts



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
 Fax: (785) 483-5566

**Bill To:**

Shakespeare Oil Co., Inc.  
 202 West Main St.  
 Salem, IL 62881

KCC

AUG 23 2010

CONFIDENTIAL

# INVOICE

Invoice Number: 123753  
 Invoice Date: Jul 26, 2010  
 Page: 1

*INT file*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Glassman #4-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 26, 2010	8/25/10

Quantity	Item	Description	Unit Price	Amount
205.00	MAT	ASC Class A	18.60	3,813.00
1,025.00	MAT	Gilsonite	0.89	912.25
144.00	MAT	CD-31	9.35	1,346.40
500.00	MAT	WFR-2	1.27	635.00
240.00	SER	Handling	2.40	576.00
15.00	SER	Mileage 240 sx @ .10 per sk per mi	24.00	360.00
1.00	SER	Production Casing	2,185.00	2,185.00
15.00	SER	Pump Truck Mileage	7.00	105.00

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 AUG 23 2010  
 KCC WICHITA

Subtotal	9,932.65
Sales Tax	489.59
Total Invoice Amount	10,422.24
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,422.24</b>

ALL PRICES ARE NET, PAYABLE  
 30 DAYS FOLLOWING DATE OF  
 INVOICE. 1 1/2% CHARGED  
 THEREAFTER. IF ACCOUNT IS  
 CURRENT, TAKE DISCOUNT OF

\$ 1986.53

ONLY IF PAID ON OR BEFORE  
Aug 20, 2010

# ALLIED CEMENTING CO., LLC. 039050

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

KCC  
AUG 23 2010

SERVICE POINT:  
Oakley

DATE <u>2-26-10</u>	SEC. <u>22</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30am</u>	JOB FINISH <u>7:00am</u>
LEASE <u>Glassman</u>	WELL # <u>4-22</u>	LOCATION <u>Oakley 135 W 145</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)				EINTO			

CONTRACTOR H D Drilling Rig 2  
 TYPE OF JOB Production  
 HOLE SIZE 2 7/8 T.D. 4720'  
 CASING SIZE 5 1/2 DEPTH 4720'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL Port collar DEPTH 2472'  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.40  
 CEMENT LEFT IN CSG. 42.40  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 111.32

OWNER Same

CEMENT  
 AMOUNT ORDERED 205 SKS ASC  
5# Gilsonite 3/40# 18 CO-31  
500gal WFR-2 RECEIVED  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC 205 SKS @ 18.60 3813.00  
Gilsonite 1025# @ .89 912.25  
CO-31 144# @ 9.35 1346.40  
WFR-2 500gal @ 1.27 635.00  
 HANDLING 240 SKS @ 2.40 576.00  
 MILEAGE 109 SK/mile 360.00  
 TOTAL 7642.65

EQUIPMENT

PUMP TRUCK CEMENTER Andrew  
 # 386281 HELPER Larene  
 BULK TRUCK  
 # 347 DRIVER Wil  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
Pump 500gal water 500gal WFR-2  
Plug Rathole 30 SKS. mix 125 SKS  
ASC down 5 1/2 casing. wash pump  
and lines clean Displace plug  
800# Lift pressure land plug  
1500#. stop rotating last 100'  
of displacement Good circulation  
through out job float held.  
 Thank you

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

SERVICE

DEPTH OF JOB 4720'  
 PUMP TRUCK CHARGE 2185.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 15 miles @ 7.00 105.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 2290.00

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.

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

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

PRINTED NAME Doug Roberts  
 SIGNATURE Doug Robert



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
Fax: (785) 483-5566

# INVOICE

Invoice Number: 123755  
Invoice Date: Jul 29, 2010  
Page: 1

**KCC**  
**AUG 23 2010**  
**CONFIDENTIAL**

<b>Bill To:</b>
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

*INT file*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Glassman #4-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Jul 29, 2010	8/28/10

Quantity	Item	Description	Unit Price	Amount
237.00	MAT	Class A Common	15.45	3,661.65
128.00	MAT	Pozmix	8.00	1,024.00
25.00	MAT	Gel	20.80	520.00
91.00	MAT	Flo Seal	2.50	227.50
513.00	SER	Handling	2.40	1,231.20
15.00	SER	Mileage 513 sx @ .10 per sk per mi	51.30	769.50
1.00	SER	Port Collar	1,185.00	1,185.00
15.00	SER	Pump Truck Mileage	7.00	105.00

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AUG 09 2010

**RECEIVED**  
AUG 23 2010  
**KCC WICHITA**

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1744 ??

ONLY IF PAID ON OR BEFORE  
Aug 23, 2010

Subtotal	8,723.85
Sales Tax	396.62
Total Invoice Amount	9,120.47
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,120.47</b>



# ALLIED CEMENTING CO., LLC. 038919

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

SERVICE POINT: Dakley KS

DATE <u>7/29/10</u>	SEC. <u>22</u>	TWP. <u>13</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00</u>	JOB FINISH <u>18:00</u>
GLASSMAN LEASE	WELL # <u>7-12</u>	LOCATION <u>Dakley 135 1W 11/2 S</u>		COUNTY <u>Lago</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>E Into</u>		AUG 23 2010	

CONTRACTOR Wildwest

TYPE OF JOB Port collar

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Port collar DEPTH 2470'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same CONFIDENTIAL

CEMENT

AMOUNT ORDERED 475 SK, 65/95

8 20 gal 1/4 10 Flo Seal

500 lb Halls used 365 SK

COMMON 237 @ 15.45 3661.65

POZMIX 128 @ 8.00 1024.00

GEL 25 @ 20.80 520.00

CHLORIDE @

ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Alan

# 422 HELPER Wayne

BULK TRUCK

# 392 DRIVER Jerry

BULK TRUCK

# DRIVER

Flo Seal 91 lb @ 2.50 227.50

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HANDLING 513 SK @ 2.40 1231.20

MILEAGE 102 SK/mile 269.50

TOTAL 2433.85

REMARKS:

Test tool to PST, open tool take note

mix 365 SK, 65/95 8 20 gal 1/4 10 Flo Seal,

Displace Cement, Close Tool, Test to 1200 PST

Held. Run 4 JTs, Reverse Clam

Cement did circulate

Thank you

Alan Wayne, Jerry

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1185.00

EXTRA FOOTAGE @

MILEAGE 15 @ 7.00 105.00

MANIFOLD @

CHARGE TO: Shulle Spear

STREET

CITY STATE ZIP

TOTAL 1290.00

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.

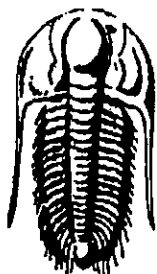
SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME John Davison

SIGNATURE John Davison



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

**DRILL STEM TEST REPORT**

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.19 @ 15:29:22

End Date: 2010.07.19 @ 22:25:16

Job Ticket #: 39099                      DST #: 1

**KCC**  
**AUG 23 2010**  
**CONFIDENTIAL**

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

**RECEIVED**  
**AUG 23 2010**  
**KCC WICHITA**

Shakespeare Oil Co. Inc.

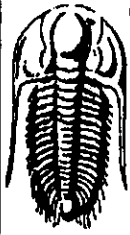
Glassman 4-22

22-13-32 Logan, KS

DST # 1

Lansing A& B

2010.07.19



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39099

DST#: 1

ATTN: Tim Priest

Test Start: 2010.07.19 @ 15:29:22

### GENERAL INFORMATION:

Formation: **Lansing A&B**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 17:05:47  
 Time Test Ended: 22:25:16

Test Type: **Conventional Bottom Hole**  
 Tester: **Brandon Turley**  
 Unit No: **35**

Interval: **4000.00 ft (KB) To 4056.00 ft (KB) (TVD)**  
 Total Depth: **4056.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3020.00 ft (KB)**  
**3010.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

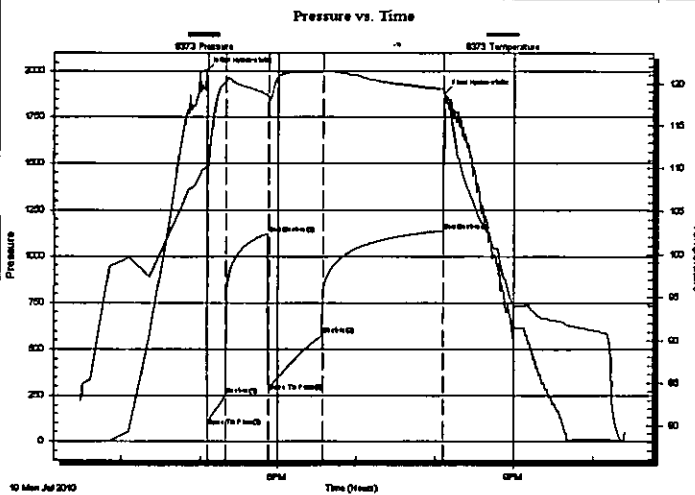
Serial #: **8373**

Inside

Press@RunDepth: **575.40 psig @ 4001.00 ft (KB)**  
 Start Date: **2010.07.19** End Date: **2010.07.19**  
 Start Time: **15:29:22** End Time: **22:25:16**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.07.19**  
 Time On Btm: **2010.07.19 @ 17:04:32**  
 Time Off Btm: **2010.07.19 @ 20:06:46**

TEST COMMENT: IF: 1/4 blow BOB in 3 1/2 min.  
 IS: Surface blow died in 10 min.  
 FF: 1/4 blow BOB in 3 min.  
 FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.05	110.12	Initial Hydro-static
2	80.46	109.18	Open To Flow (1)
16	249.74	120.22	Shut-In(1)
48	1120.10	118.69	End Shut-In(1)
49	272.72	118.30	Open To Flow (2)
90	575.40	121.30	Shut-In(2)
182	1135.63	119.36	End Shut-In(2)
183	1882.99	118.32	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
620.00	water 100%w	7.57
372.00	mcw 90%w 10%m	5.22
403.00	wcm 30%w 70%m	5.65

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

ATTN: Tim Priest

Job Ticket: 39099

DST#: 1

Test Start: 2010.07.19 @ 15:29:22

### Tool Information

Drill Pipe:	Length: 3866.00 ft	Diameter: 3.80 inches	Volume: 54.23 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: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4000.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 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
Stubb	1.00			3981.00	
Shut In Tool	5.00			3986.00	
Hydraulic tool	5.00			3991.00	
Packer	5.00			3996.00	20.00 Bottom Of Top Packer
Packer	4.00			4000.00	
Stubb	1.00			4001.00	
Recorder	0.00	8373	Inside	4001.00	
Recorder	0.00	8289	Outside	4001.00	
Perforations	17.00			4018.00	
Change Over Sub	1.00			4019.00	
Drill Pipe	31.00			4050.00	
Change Over Sub	1.00			4051.00	
Bullnose	5.00			4056.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co. Inc.  
202 W main st  
Salem, IL 62881  
ATTN: Tim Priest

**Glassman 4-22**  
**22-13-32 Logan, KS**  
Job Ticket: 39099      **DST#: 1**  
Test Start: 2010.07.19 @ 15:29:22

### 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:	38000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.15 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

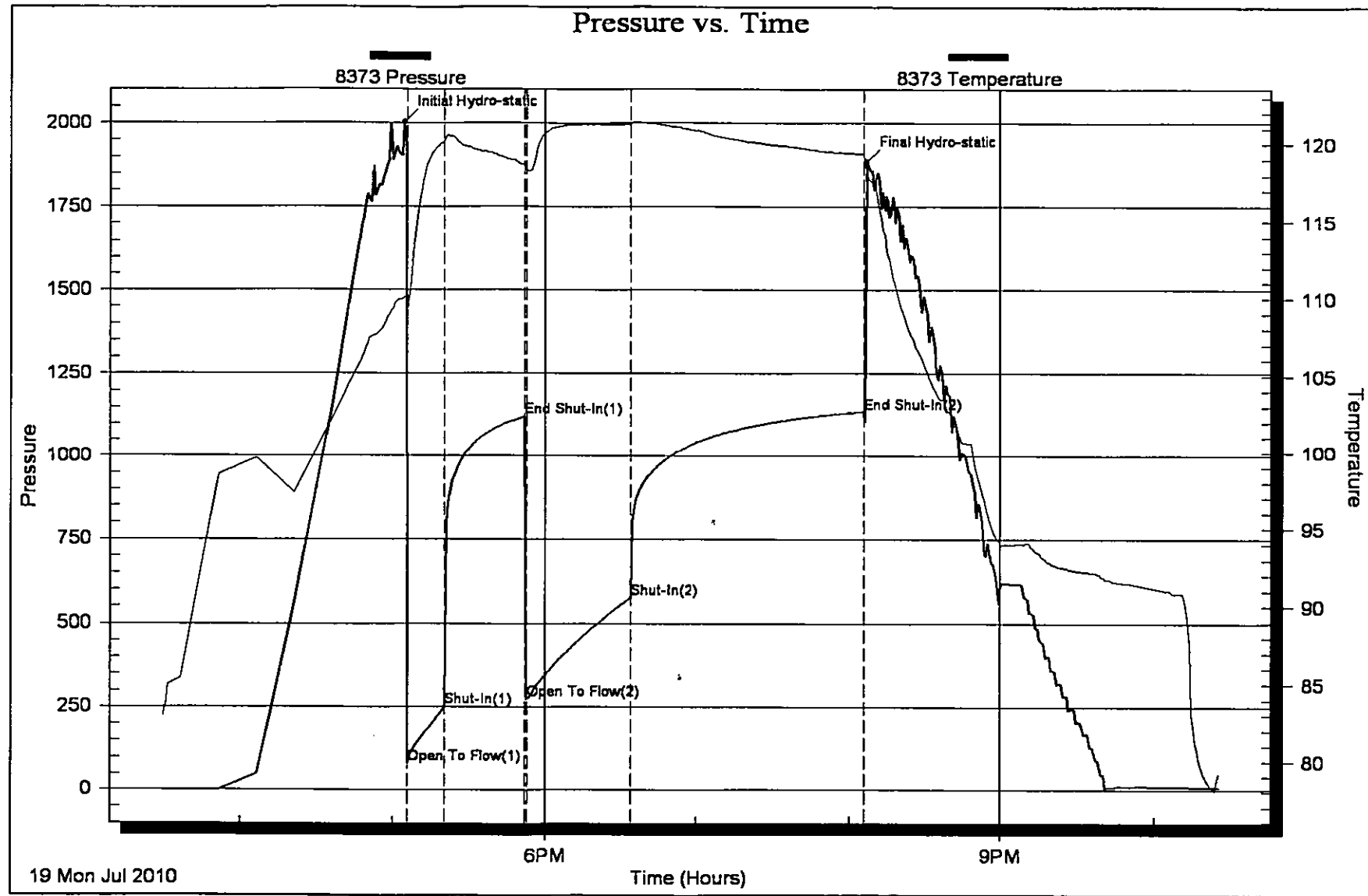
Length ft	Description	Volume bbl
620.00	water 100%w	7.567
372.00	mcw 90%w 10%m	5.218
403.00	w cm 30%w 70%m	5.653

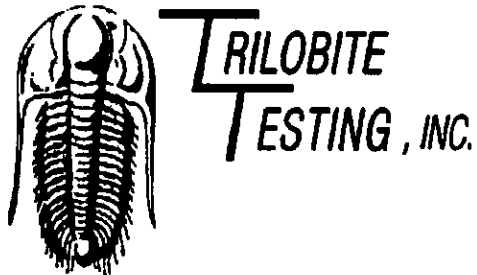
Total Length: 1395.00 ft      Total Volume: 18.438 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: .15@90=38000





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.20 @ 10:30:15

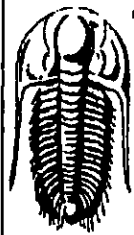
End Date: 2010.07.20 @ 16:56:54

Job Ticket #: 39100                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39100

DST#: 2

ATTN: Tim Priest

Test Start: 2010.07.20 @ 10:30:15

## GENERAL INFORMATION:

Formation: **Lansing E-F**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 12:06:10  
 Time Test Ended: 16:56:54  
 Interval: **4075.00 ft (KB) To 4114.00 ft (KB) (TVD)**  
 Total Depth: **4114.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**  
 Tester: **Brandon Turley**  
 Unit No: **35**

Reference Elevations: **3020.00 ft (KB)**  
**3010.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

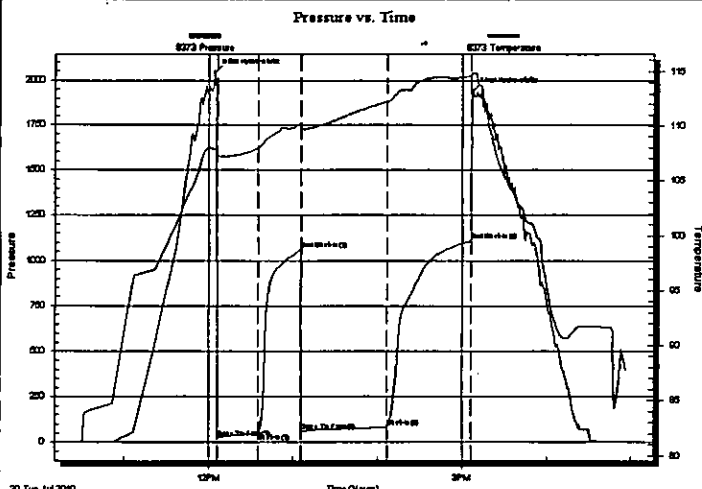
## Serial #: 8373

**Inside**

Press@RunDepth: **82.49 psig @ 4076.00 ft (KB)**  
 Start Date: **2010.07.20** End Date: **2010.07.20**  
 Start Time: **10:30:15** End Time: **16:56:54**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.07.20**  
 Time On Btm: **2010.07.20 @ 12:04:25**  
 Time Off Btm: **2010.07.20 @ 15:07:39**

**TEST COMMENT:** IF: Surface blow built to 3 in 30 min.  
 IS: No return.  
 FF: Surface blow built to 6 in 60 min.  
 FS: No return



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.12	107.92	Initial Hydro-static
2	25.14	107.22	Open To Flow (1)
32	50.22	107.96	Shut-In(1)
62	1063.10	110.25	End Shut-In(1)
62	59.34	109.78	Open To Flow (2)
123	82.49	112.26	Shut-In(2)
182	1107.97	114.56	End Shut-In(2)
184	1941.39	114.90	Final Hydro-static

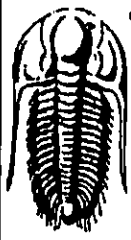
## Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 10%o 90%m	0.30
93.00	ocm 50%o 50%m	0.74

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39100

**DST#: 2**

ATTN: Tim Priest

Test Start: 2010.07.20 @ 10:30:15

### Tool Information

Drill Pipe:	Length: 3948.00 ft	Diameter: 3.80 inches	Volume: 55.38 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: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4075.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4056.00	
Shut In Tool	5.00			4061.00	
Hydraulic tool	5.00			4066.00	
Packer	5.00			4071.00	20.00 Bottom Of Top Packer
Packer	4.00			4075.00	
Stubb	1.00			4076.00	
Recorder	0.00	8373	Inside	4076.00	
Recorder	0.00	8289	Outside	4076.00	
Perforations	2.00			4078.00	
Change Over Sub	1.00			4079.00	
Drill Pipe	29.00			4108.00	
Change Over Sub	1.00			4109.00	
Bullnose	5.00			4114.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39100

DST#: 2

ATTN: Tim Priest

Test Start: 2010.07.20 @ 10:30:15

## 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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.15 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 bbf
62.00	ocm 10%o 90%m	0.305
93.00	ocm 50%o 50%m	0.740

Total Length: 155.00 ft

Total Volume: 1.045 bbf

Num Fluid Samples: 0

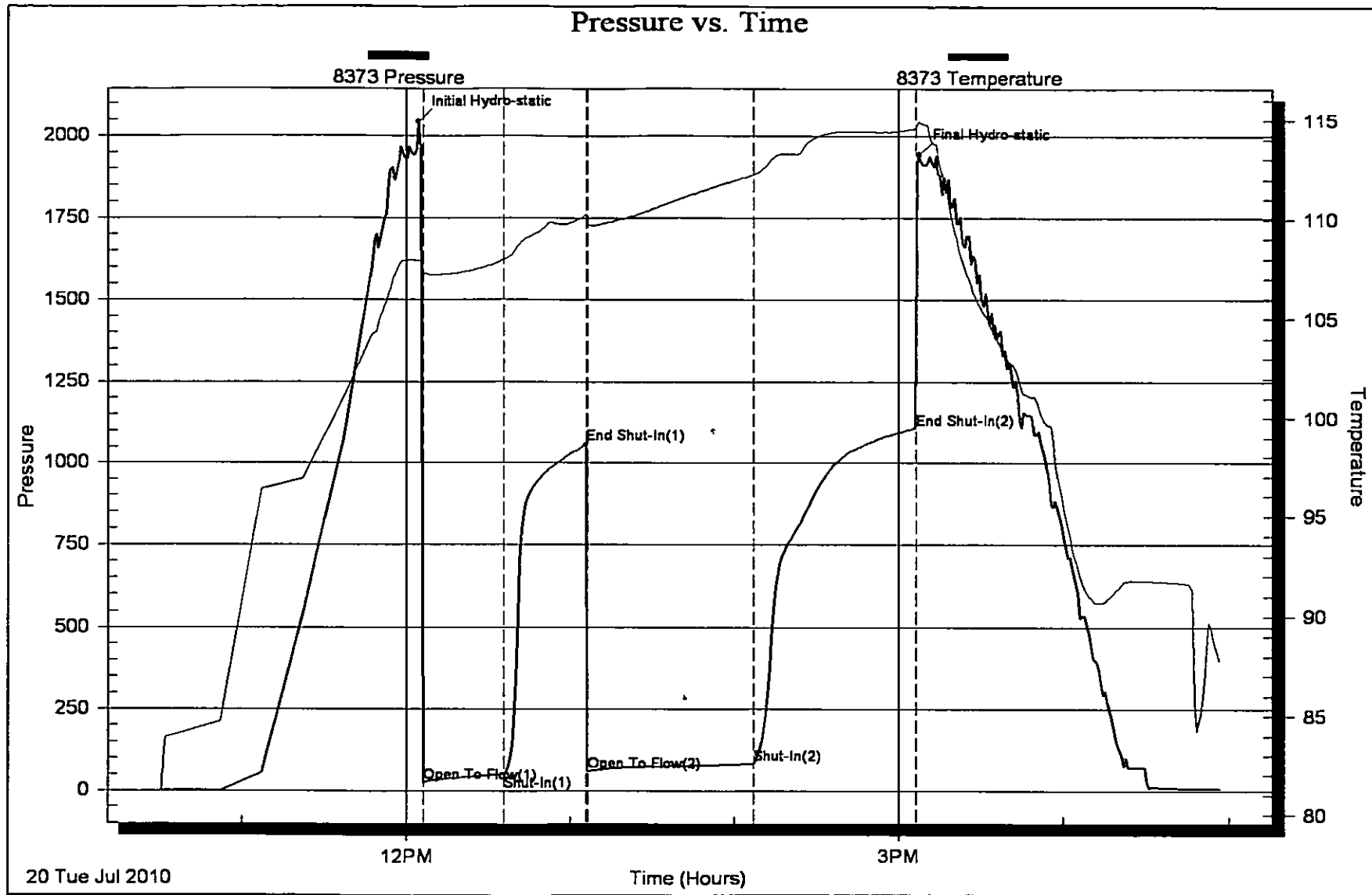
Num Gas Bombs: 0

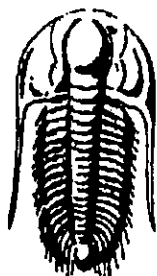
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.21 @ 06:26:33

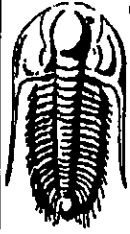
End Date: 2010.07.21 @ 12:05:12

Job Ticket #: 39101                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39101

DST#: 3

ATTN: Tim Priest

Test Start: 2010.07.21 @ 06:26:33

## GENERAL INFORMATION:

Formation: **Lansing H-I**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 08:18:58  
 Time Test Ended: 12:05:12

Test Type: **Conventional Bottom Hole**  
 Tester: **Brandon Turley**  
 Unit No: **35**

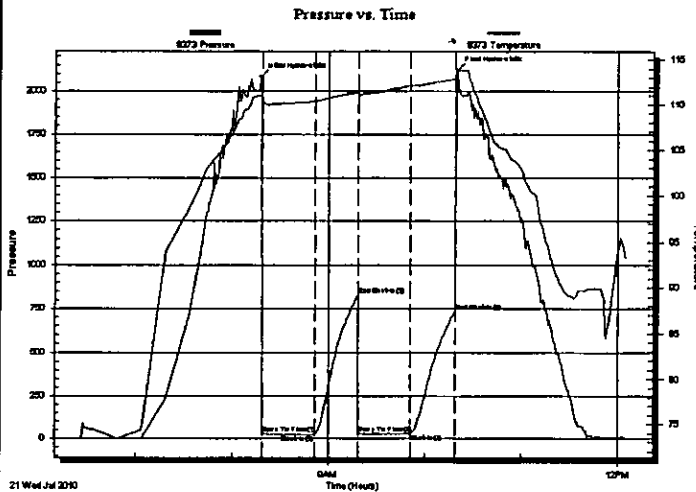
Interval: **4157.00 ft (KB) To 4216.00 ft (KB) (TVD)**  
 Total Depth: **4216.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **3020.00 ft (KB)**  
**3010.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

Serial #: **8373** Inside  
 Press@RunDepth: **29.42 psig @ 4162.00 ft (KB)**  
 Start Date: **2010.07.21** End Date: **2010.07.21**  
 Start Time: **06:26:33** End Time: **12:05:12**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.07.21**  
 Time On Btm: **2010.07.21 @ 08:17:28**  
 Time Off Btm: **2010.07.21 @ 10:19:58**

TEST COMMENT: IF: Surface blow built to 1/4 in 30 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

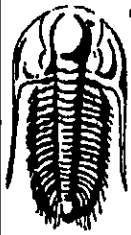
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.00	110.98	Initial Hydro-static
2	28.27	110.29	Open To Flow (1)
34	24.96	110.40	Shut-In(1)
61	828.52	111.38	End Shut-In(1)
61	27.71	110.82	Open To Flow (2)
94	29.42	112.14	Shut-In(2)
122	737.18	112.90	End Shut-In(2)
123	2123.67	113.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39101

DST#: 3

ATTN: Tim Priest

Test Start: 2010.07.21 @ 06:26:33

### Tool Information

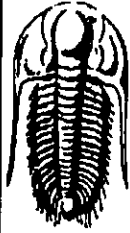
Drill Pipe:	Length: 4047.00 ft	Diameter: 3.80 inches	Volume: 56.77 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4157.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4142.00	
Shut In Tool	5.00			4147.00	
Hydraulic tool	5.00			4152.00	
Packer	5.00			4157.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4161.00	
Stubb	1.00			4162.00	
Recorder	0.00	8373	Inside	4162.00	
Recorder	0.00	8289	Outside	4162.00	
Perforations	20.00			4182.00	
Change Over Sub	1.00			4183.00	
Drill Pipe	31.00			4214.00	
Change Over Sub	1.00			4215.00	
Bullnose	5.00			4220.00	63.00 Anchor Tool

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39101

DST#: 3

ATTN: Tim Priest

Test Start: 2010.07.21 @ 06:26:33

## 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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

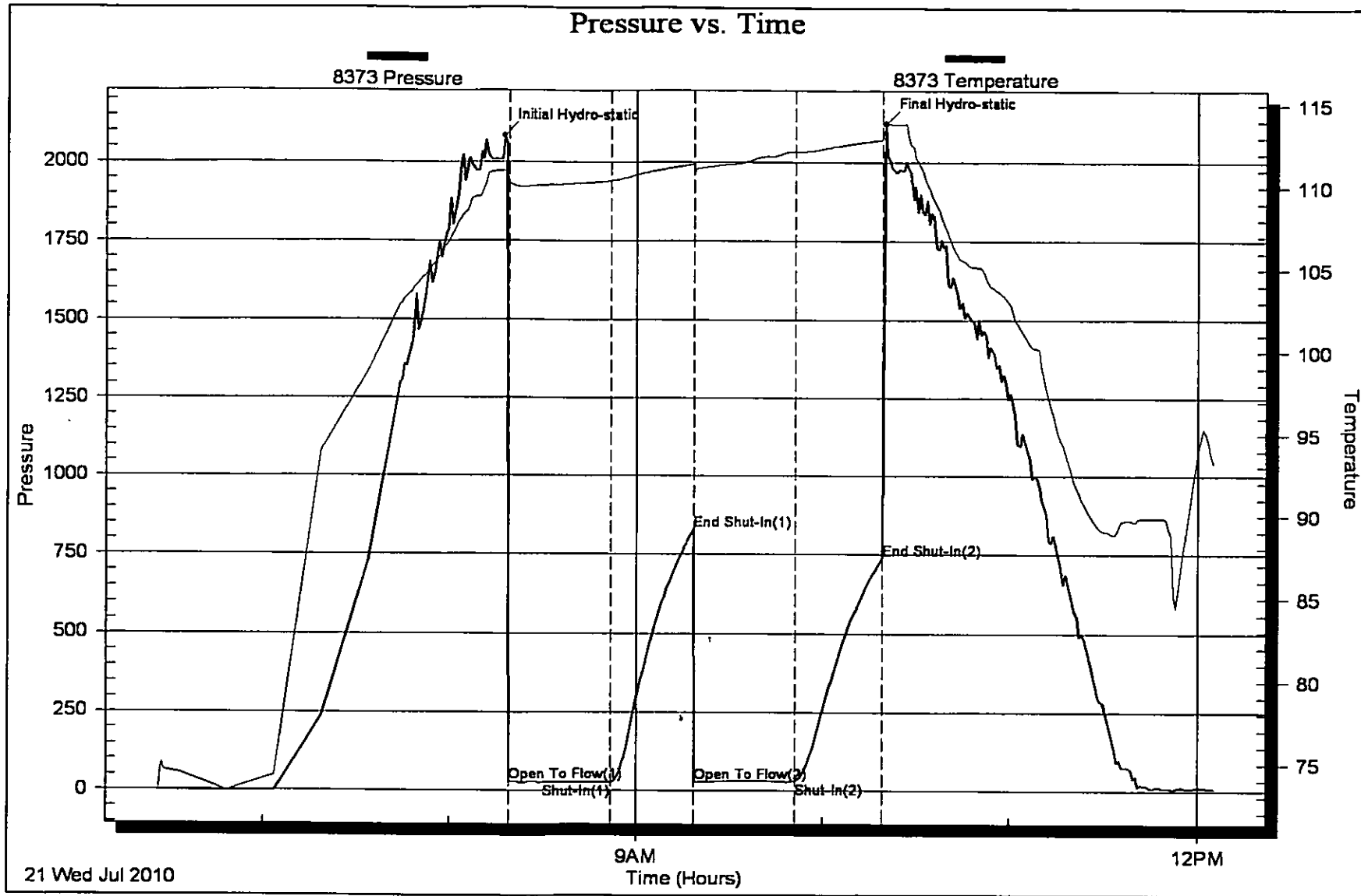
Num Gas Bombs: 0

Serial #:

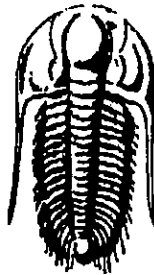
Laboratory Name:

Laboratory Location:

Recovery Comments:







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

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.21 @ 20:59:26

End Date: 2010.07.22 @ 03:57:20

Job Ticket #: 39102                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Shakespeare Oil Co. Inc.

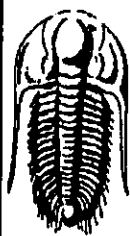
Glassman 4-22

22-13-32 Logan, KS

DST # 4

Lansing K

2010.07.21



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 W main st  
Salem, IL 62881

ATTN: Tim Priest

**Glassman 4-22**

**22-13-32 Logan, KS**

Job Ticket: 39102

DST#: 4

Test Start: 2010.07.21 @ 20:59:26

### GENERAL INFORMATION:

Formation: **Lansing K**

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

Time Tool Opened: 22:23:21

Time Test Ended: 03:57:20

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4234.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Total Depth: **4260.00 ft (KB) (TVD)**

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

Reference Elevations: **3020.00 ft (KB)**

**3010.00 ft (CF)**

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

**Serial #: 8373**

**Inside**

Press@RunDepth: **155.17 psig @ 4235.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.07.21**

End Date:

**2010.07.22**

Last Calib.: **2010.07.22**

Start Time: **20:59:26**

End Time:

**03:57:20**

Time On Btm: **2010.07.21 @ 22:21:36**

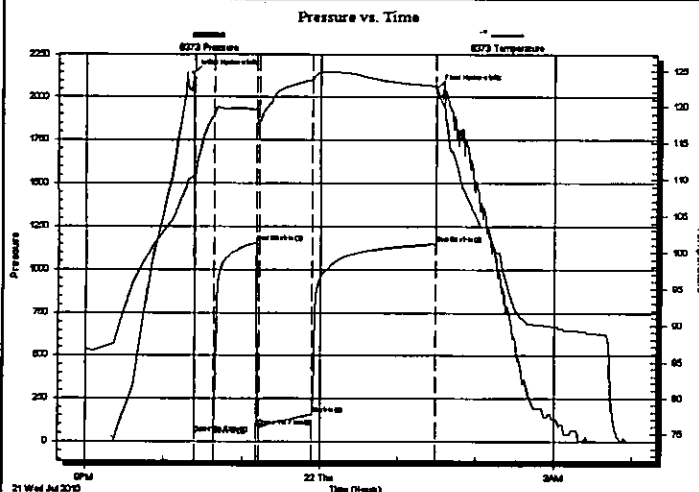
Time Off Btm: **2010.07.22 @ 01:29:20**

TEST COMMENT: IF: 1/4 blow BOB in 5 min.

IS: Surface blow built to 2 in 30 min.

FF: 1/4 blow BOB in 4 min.

FS: 1/4 blow BOB in 10 min.



### PRESSURE SUMMARY

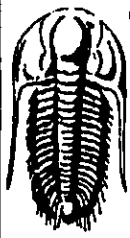
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.35	110.33	Initial Hydro-static
2	43.57	110.15	Open To Flow (1)
17	83.29	118.84	Shut-In(1)
50	1157.13	119.59	End Shut-In(1)
52	83.92	117.83	Open To Flow (2)
92	155.17	123.71	Shut-In(2)
187	1149.13	122.85	End Shut-In(2)
188	2050.57	122.84	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 50%g 30%o 20%m	0.61
31.00	mcgo 40%g 30%o 30%m	0.43
248.00	go 10%g 90%o	3.48
0.00	1767 GP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39102

DST#: 4

ATTN: Tim Priest

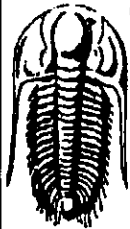
Test Start: 2010.07.21 @ 20:59:26

### Tool Information

Drill Pipe:	Length: 4110.00 ft	Diameter: 3.80 inches	Volume: 57.65 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: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 58.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4234.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4215.00	
Shut In Tool	5.00			4220.00	
Hydraulic tool	5.00			4225.00	
Packer	5.00			4230.00	~ 20.00 Bottom Of Top Packer
Packer	4.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	8373	Inside	4235.00	
Recorder	0.00	8289	Outside	4235.00	
Perforations	20.00			4255.00	
Bullnose	5.00			4260.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39102

DST#: 4

ATTN: Tim Priest

Test Start: 2010.07.21 @ 20:59:26

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	mcgo 50%g 30%o 20%m	0.610
31.00	mcgo 40%g 30%o 30%m	0.435
248.00	go 10%g 90%o	3.479
0.00	1767 GIP	0.000

Total Length: 403.00 ft

Total Volume: 4.524 bbl

Num Fluid Samples: 0

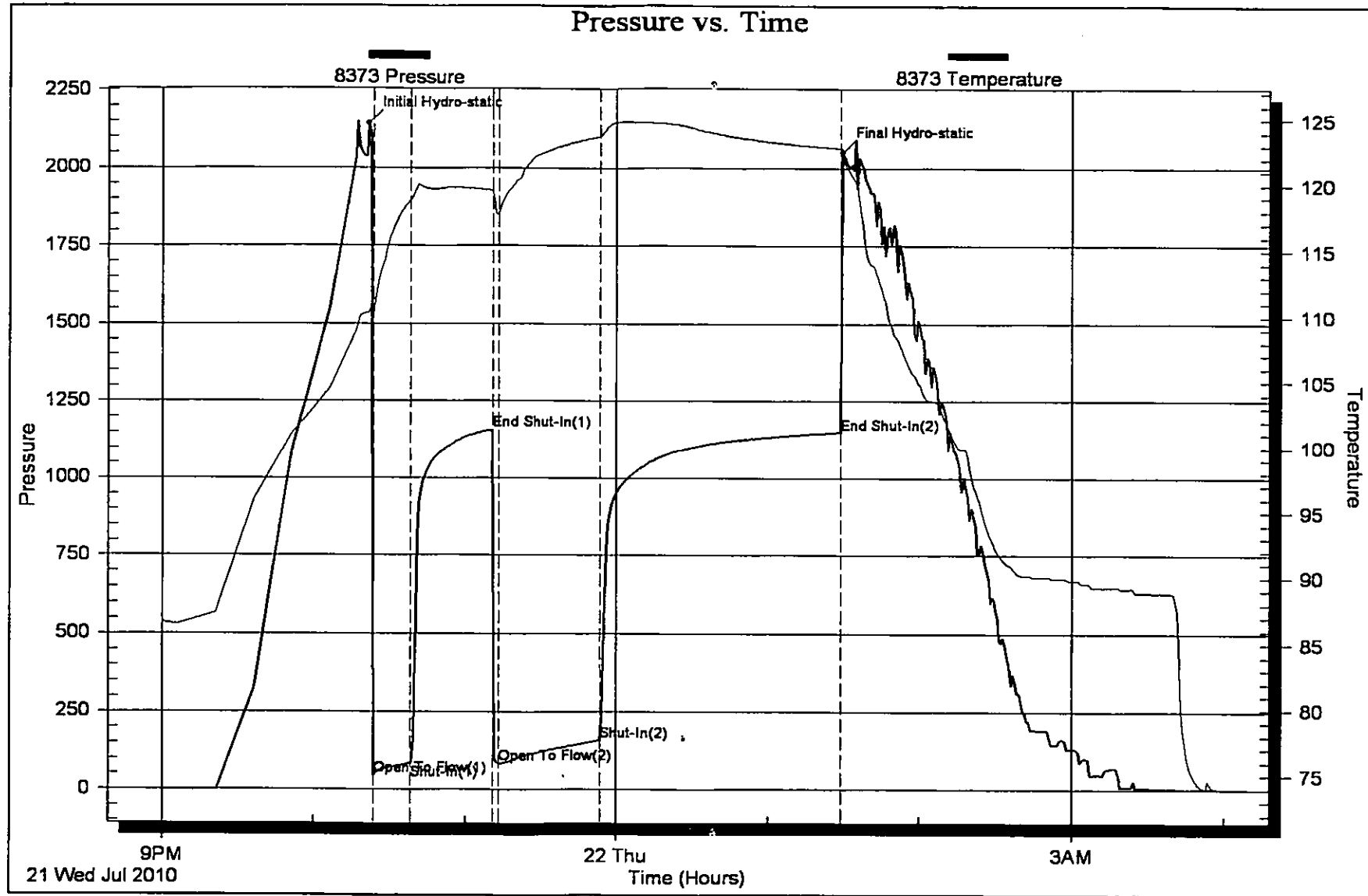
Num Gas Bombs: 0

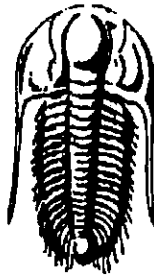
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 34@70=33





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

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.22 @ 13:00:27

End Date: 2010.07.22 @ 17:58:06

Job Ticket #: 39103                      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Shakespeare Oil Co. Inc.

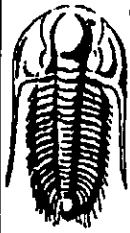
Glassman 4-22

22-13-32 Logan, KS

DST # 5

Lansing L

2010.07.22



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39103

DST#: 5

ATTN: Tim Priest

Test Start: 2010.07.22 @ 13:00:27

### GENERAL INFORMATION:

Formation: **Lansing L**

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

Time Tool Opened: 14:27:22

Time Test Ended: 17:58:06

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4270.00 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: **3020.00 ft (KB)**

**3010.00 ft (CF)**

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

**Serial #: 8373** Inside

Press@RunDepth: **15.19 psig @ 4271.00 ft (KB)**

Start Date: **2010.07.22**

End Date:

**2010.07.22**

Capacity: **8000.00 psig**

Last Calib.: **2010.07.22**

Start Time: **13:00:27**

End Time:

**17:58:06**

Time On Btm: **2010.07.22 @ 14:25:07**

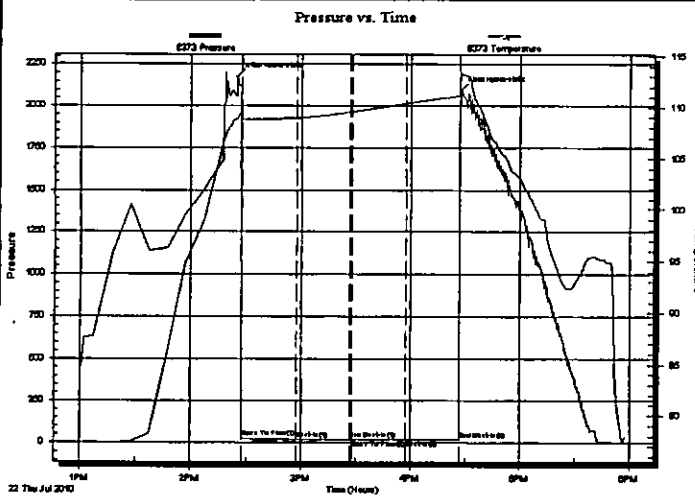
Time Off Btm: **2010.07.22 @ 16:27:37**

TEST COMMENT: IF: Surface blow died in 3 min.

IS: No return.

FF: No blow.

FS: No return.



### PRESSURE SUMMARY

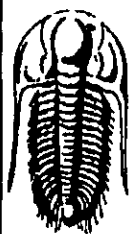
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.13	108.88	Initial Hydro-static
3	26.74	108.81	Open To Flow (1)
33	15.89	108.97	Shut-In(1)
62	19.60	109.52	End Shut-In(1)
63	16.32	109.55	Open To Flow (2)
93	15.19	110.36	Shut-In(2)
122	17.08	111.17	End Shut-In(2)
123	2096.54	113.43	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

### Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39103

DST#: 5

ATTN: Tim Priest

Test Start: 2010.07.22 @ 13:00:27

### Tool Information

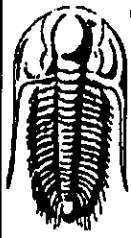
Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4270.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4251.00	
Shut In Tool	5.00			4256.00	
Hydraulic tool	5.00			4261.00	
Packer	5.00			4266.00	20.00 - Bottom Of Top Packer
Packer	4.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	8373	Inside	4271.00	
Recorder	0.00	8289	Outside	4271.00	
Perforations	24.00			4295.00	
Bullnose	5.00			4300.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				





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

## DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39103

DST#: 5

ATTN: Tim Priest

Test Start: 2010.07.22 @ 13:00:27

### 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

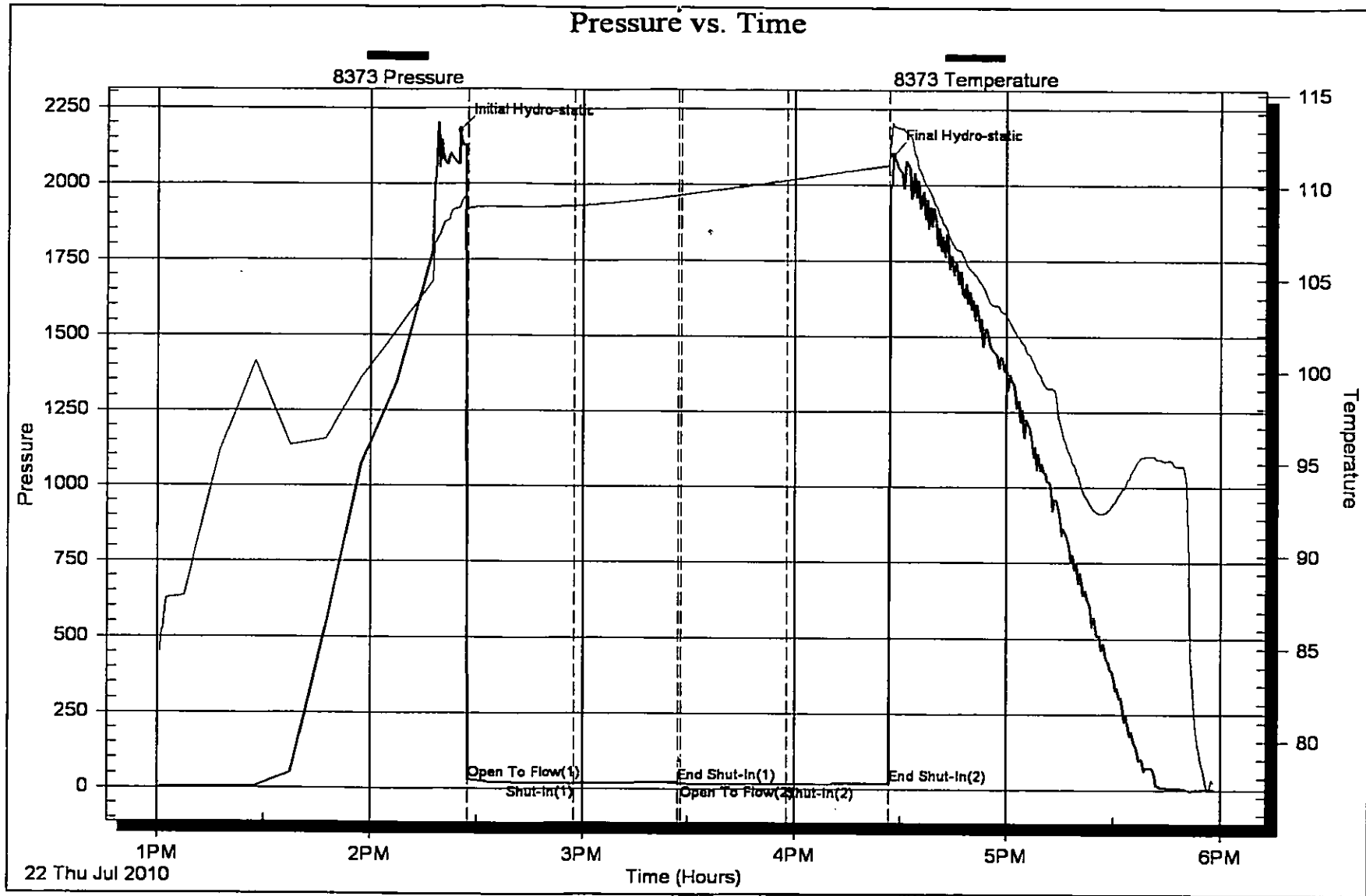
Num Gas Bombs: 0

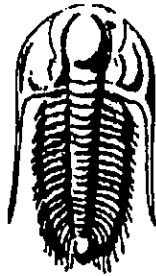
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.23 @ 17:50:43

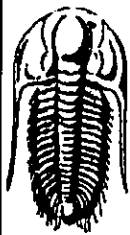
End Date: 2010.07.23 @ 23:40:07

Job Ticket #: 39104                      DST #: 6

Trilobite Testing, Inc

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39104

DST#: 6

ATTN: Tim Priest

Test Start: 2010.07.23 @ 17:50:43

## GENERAL INFORMATION:

Formation: **Pawnee-Myric Statio**

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

Time Tool Opened: 19:45:53

Time Test Ended: 23:40:07

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4433.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Total Depth: **4490.00 ft (KB) (TVD)**

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

Reference Elevations: **3020.00 ft (KB)**

**3010.00 ft (CF)**

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

**Serial #: 8373**

**Inside**

Press@RunDepth: **35.59 psig @ 4434.00 ft (KB)**

Start Date: **2010.07.23**

End Date:

**2010.07.23**

Start Time: **17:50:43**

End Time:

**23:40:07**

Capacity: **8000.00 psig**

Last Calib.: **2010.07.23**

Time On Btm: **2010.07.23 @ 19:44:38**

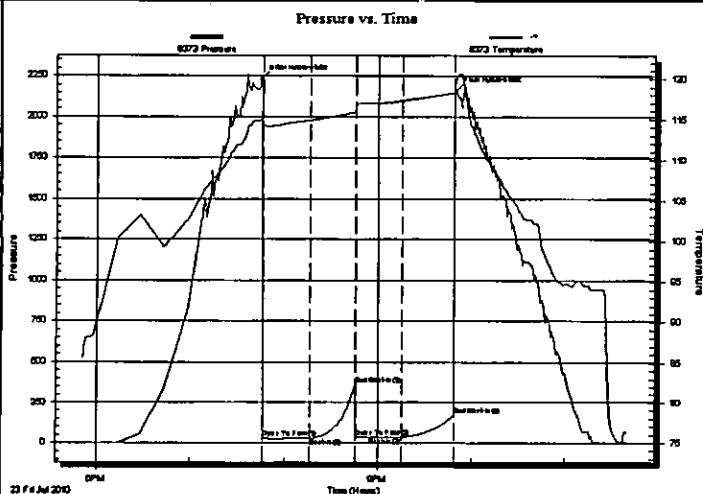
Time Off Btm: **2010.07.23 @ 21:49:53**

TEST COMMENT: **IF: Surface blow died in 6 min.**

**IS: No return.**

**FF: No blow.**

**FS: No return.**



## PRESSURE SUMMARY

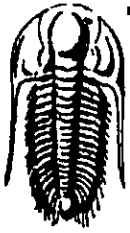
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.71	114.96	Initial Hydro-static
2	28.44	114.53	Open To Flow (1)
32	29.04	114.88	Shut-In(1)
61	362.87	115.88	End Shut-In(1)
61	37.50	116.29	Open To Flow (2)
91	35.59	117.32	Shut-In(2)
125	169.94	118.34	End Shut-In(2)
126	2164.61	120.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 5%o 95%m	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39104

**DST#: 6**

ATTN: Tim Priest

Test Start: 2010.07.23 @ 17:50:43

### Tool Information

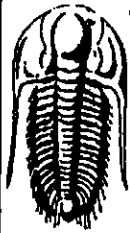
Drill Pipe:	Length: 4319.00 ft	Diameter: 3.80 inches	Volume: 60.58 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 95000.00 lb
			<b>Total Volume: 61.19 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4433.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4414.00	
Shut In Tool	5.00			4419.00	
Hydraulic tool	5.00			4424.00	
Packer	5.00			4429.00	20.00 Bottom Of Top Packer
Packer	4.00			4433.00	
Stubb	1.00			4434.00	
Recorder	0.00	8373	Inside	4434.00	
Recorder	0.00	8289	Outside	4434.00	
Perforations	19.00			4453.00	
Change Over Sub	1.00			4454.00	
Drill Pipe	30.00			4484.00	
Change Over Sub	1.00			4485.00	
Bullnose	5.00			4490.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39104

DST#: 6

ATTN: Tim Priest

Test Start: 2010.07.23 @ 17:50:43

### 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: 65.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.78 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
10.00	ocm 5%o 95%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbf

Num Fluid Samples: 0

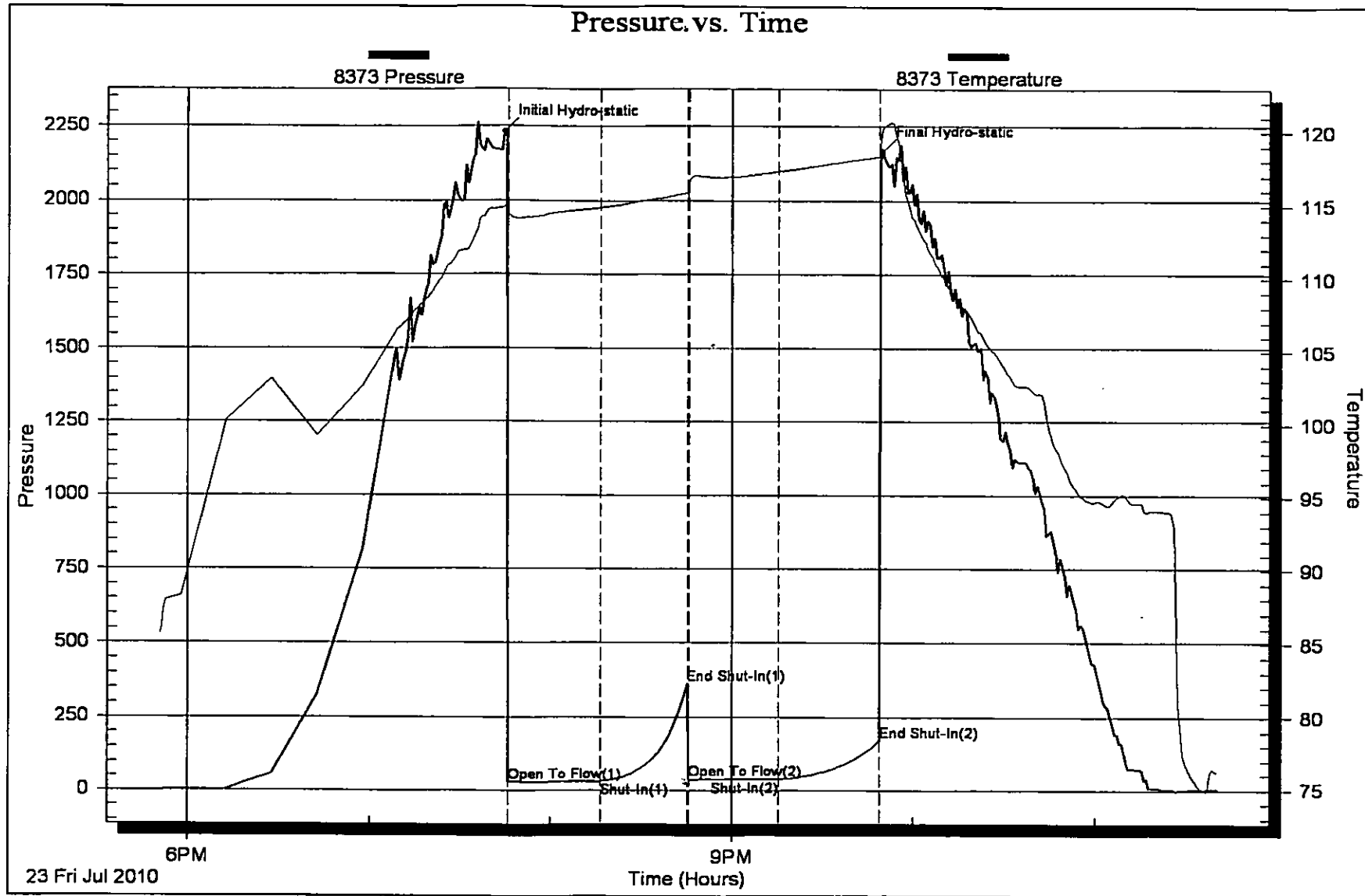
Num Gas Bombs: 0

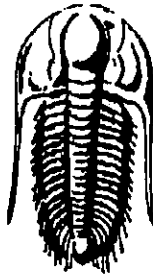
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.24 @ 08:24:46

End Date: 2010.07.24 @ 14:51:10

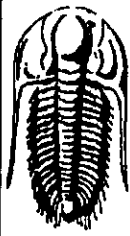
Job Ticket #: 39105                      DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39105

DST#: 7

ATTN: Tim Priest

Test Start: 2010.07.24 @ 08:24:46

## GENERAL INFORMATION:

Formation: **Ft. Scott**

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

Time Tool Opened: 10:06:26

Time Test Ended: 14:51:10

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4488.00 ft (KB) To 4522.00 ft (KB) (TVD)**

Reference Elevations: **3020.00 ft (KB)**

Total Depth: **4522.00 ft (KB) (TVD)**

**3010.00 ft (CF)**

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

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

**Serial #: 8373**

**Inside**

Press@RunDepth: **37.88 psig @ 4489.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.07.24**

End Date:

**2010.07.24**

Last Calib.: **2010.07.24**

Start Time: **08:24:46**

End Time:

**14:51:10**

Time On Btm: **2010.07.24 @ 10:04:56**

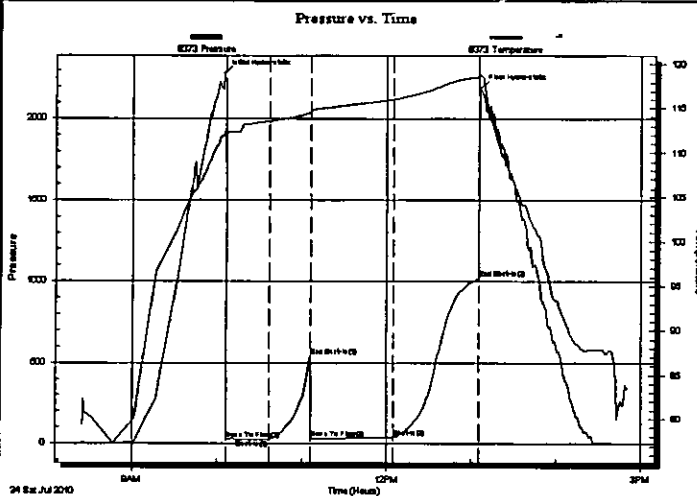
Time Off Btm: **2010.07.24 @ 13:06:40**

TEST COMMENT: **IF: Surface blow built to 4 in 30 min.**

**IS: No return.**

**FF: 1/4 blow BOB in 56 min.**

**FS: No return.**



## PRESSURE SUMMARY

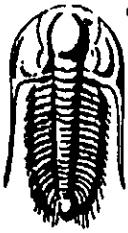
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.64	112.03	Initial Hydro-static
2	26.00	111.93	Open To Flow (1)
32	26.43	113.53	Shut-In(1)
62	538.02	114.50	End Shut-In(1)
62	28.65	114.57	Open To Flow (2)
121	37.88	116.03	Shut-In(2)
181	1017.98	118.56	End Shut-In(2)
182	2193.54	118.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcgo 20%g 40%o 40%m	0.30
2.00	free oil 100%o	0.01
0.00	310 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39105

**DST#: 7**

ATTN: Tim Priest

Test Start: 2010.07.24 @ 08:24:46

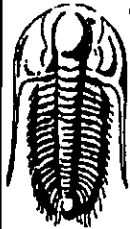
### Tool Information

Drill Pipe:	Length: 4354.00 ft	Diameter: 3.80 inches	Volume: 61.08 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:	30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 61.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4488.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4469.00	
Shut In Tool	5.00			4474.00	
Hydraulic tool	5.00			4479.00	
Packer	5.00			4484.00	20.00 Bottom Of Top Packer
Packer	4.00			4488.00	
Stubb	1.00			4489.00	
Recorder	0.00	8373	Inside	4489.00	
Recorder	0.00	8289	Outside	4489.00	
Perforations	28.00			4517.00	
Bullnose	5.00			4522.00	34.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39105

DST#: 7

ATTN: Tim Priest

Test Start: 2010.07.24 @ 08:24:46

### 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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcgo 20%g 40%o 40%m	0.295
2.00	free oil 100%o	0.010
0.00	310 GIP	0.000

Total Length: 62.00 ft

Total Volume: 0.305 bbl

Num Fluid Samples: 0

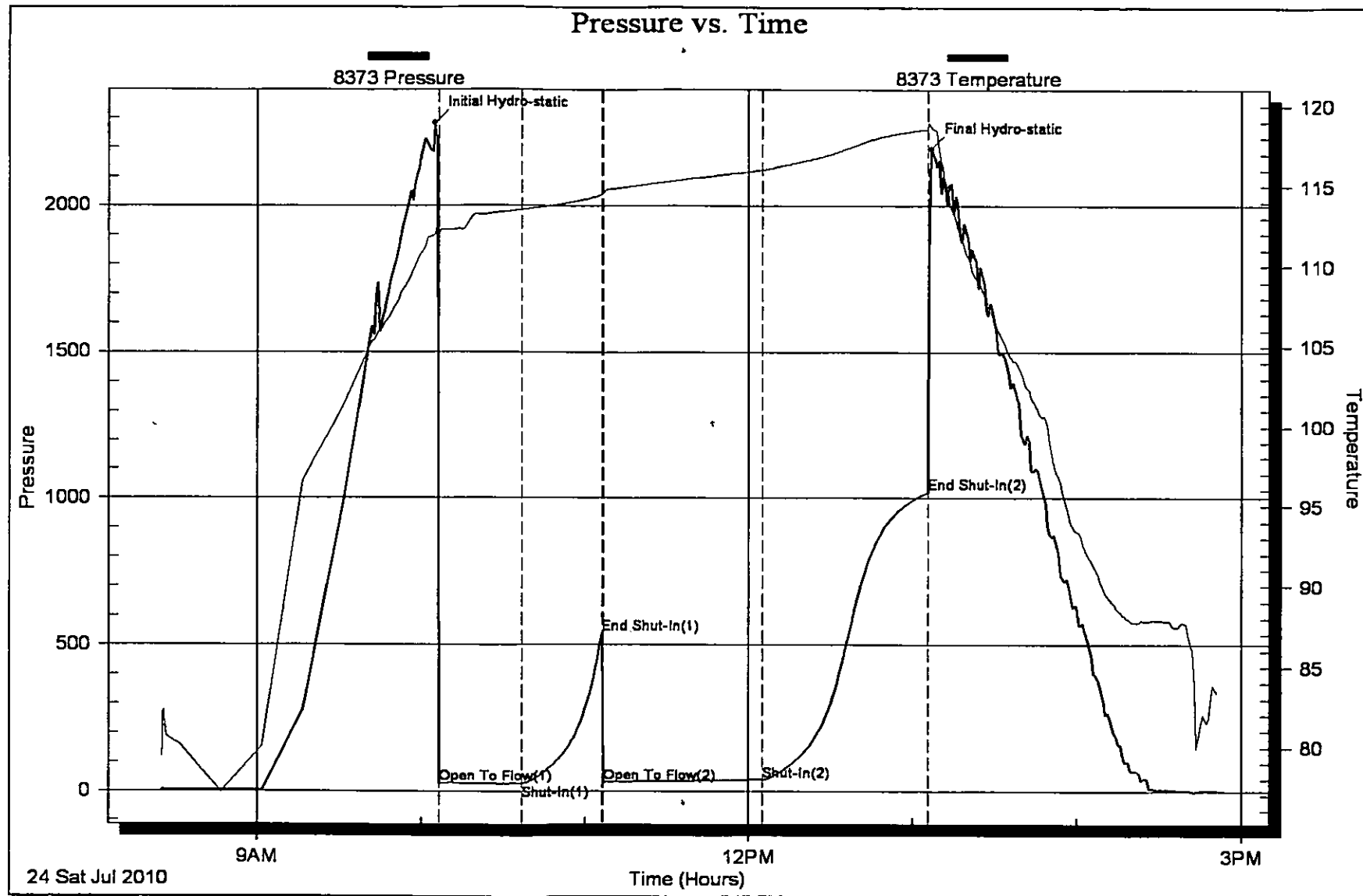
Num Gas Bombs: 0

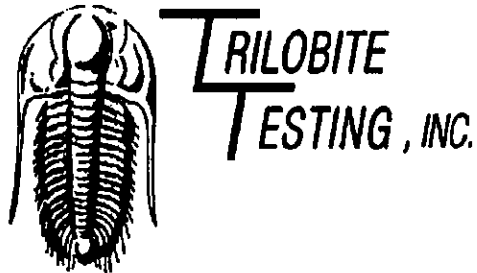
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc.**

202 W main st  
Salem , IL 62881

ATTN: Tim Priest

**22-13-32 Logan, KS**

**Glassman 4-22**

Start Date: 2010.07.25 @ 03:15:49

End Date: 2010.07.25 @ 11:21:28

Job Ticket #: 39106                      DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39106

**DST#: 8**

ATTN: Tim Priest

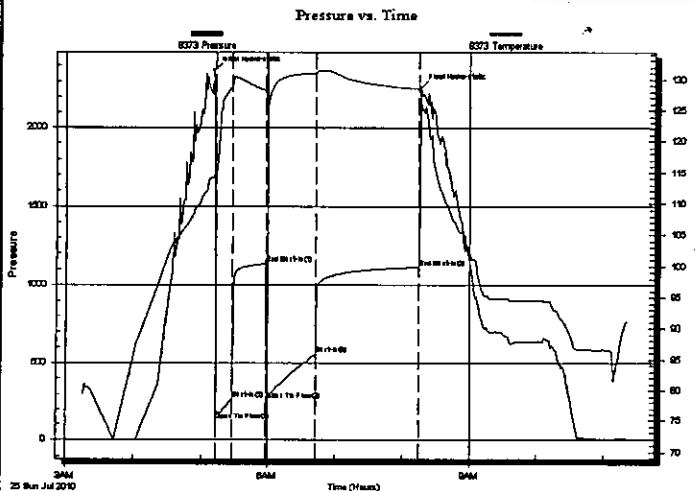
Test Start: 2010.07.25 @ 03:15:49

## GENERAL INFORMATION:

Formation: **Johnson- Sand**  
 Deviated: **No Whipstock** ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **05:13:44**  
 Tester: **Brandon Turley**  
 Time Test Ended: **11:21:28**  
 Unit No: **35**  
 Interval: **4544.00 ft (KB) To 4600.00 ft (KB) (TVD)**  
 Reference Elevations: **3020.00 ft (KB)**  
 Total Depth: **4600.00 ft (KB) (TVD)**  
**3010.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 KB to GR/CF: **10.00 ft**

**Serial #: 8373** **Inside**  
 Press@RunDepth: **553.34 psig @ 4545.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.07.25** End Date: **2010.07.25** Last Calib.: **2010.07.25**  
 Start Time: **03:15:49** End Time: **11:21:28** Time On Btm: **2010.07.25 @ 05:11:59**  
 Time Off Btm: **2010.07.25 @ 08:16:28**

**TEST COMMENT:** IF: BOB in 2 min.  
 IS: BOB in 15 min.  
 FF: BOB in 1 1/2 min.  
 FS: BOB in 7 min. Gas to surface.



## PRESSURE SUMMARY

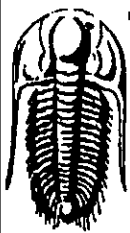
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.78	114.23	Initial Hydro-static
2	122.37	113.97	Open To Flow (1)
17	264.48	128.70	Shut-In(1)
47	1136.81	128.20	End Shut-In(1)
48	260.22	125.84	Open To Flow (2)
91	553.34	130.99	Shut-In(2)
183	1109.55	128.48	End Shut-In(2)
185	2260.00	126.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 10%g 70%o 30%m	0.61
1116.00	go 30%g 70%o	15.65
186.00	go 20%g 80%o	2.61
0.00	Gas to surface	0.00

## Gas Rates

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



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

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co. Inc.

**Glassman 4-22**

202 W main st  
Salem, IL 62881

**22-13-32 Logan, KS**

Job Ticket: 39106

DST#: 8

ATTN: Tim Priest

Test Start: 2010.07.25 @ 03:15:49

### Tool Information

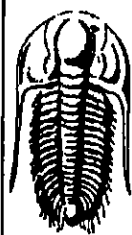
Drill Pipe:	Length: 4415.00 ft	Diameter: 3.80 inches	Volume: 61.93 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4544.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 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
Stubb	1.00			4525.00	
Shut In Tool	5.00			4530.00	
Hydraulic tool	5.00			4535.00	
Packer	5.00			4540.00	20.00 Bottom Of Top Packer
Packer	4.00			4544.00	
Stubb	1.00			4545.00	
Recorder	0.00	8373	Inside	4545.00	
Recorder	0.00	8289	Outside	4545.00	
Perforations	18.00			4563.00	
Change Over Sub	1.00			4564.00	
Drill Pipe	30.00			4594.00	
Change Over Sub	1.00			4595.00	
Bullnose	5.00			4600.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE**  
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# DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

Glassman 4-22

202 W main st  
Salem, IL 62881

22-13-32 Logan, KS

Job Ticket: 39106

DST#: 8

ATTN: Tim Priest

Test Start: 2010.07.25 @ 03:15:49

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

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

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

27 deg API

Water Salinity: 0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcgo 10%g 70%o 30%m	0.610
1116.00	go 30%g 70%o	15.655
186.00	go 20%g 80%o	2.609
0.00	Gas to surface	0.000

Total Length: 1426.00 ft

Total Volume: 18.874 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 29@80=27



