

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

1/30/09

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5363  
Name: Berexco Inc.  
Address: P. O. Box 20380  
City/State/Zip: Wichita, KS 67208  
Purchaser: Central Crude Corporation  
Operator Contact Person: Bruce Meyer  
Phone: (316) 265-3311  
Contractor: Name: Beredco Inc.  
License: 5147  
Wellsite Geologist: Bruce Reed

CONFIDENTIAL  
JAN 30 2008  
KCC

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. \_\_\_\_\_

02 Oct. 2007      13 Oct. 2007      18 Jan. 2008  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 009-25087-00-00  
County: Barton  
S/2. NE. SW SE Sec. 22 Twp. 16 S. R. 13  East  West  
790 feet from (S) N (circle one) Line of Section  
1640 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE (SE) NW SW  
Lease Name: Thorne C Well #: 3  
Field Name: Trapp

Producing Formation: Lansing/Kansas City & Arbuckle  
Elevation: Ground: 1945' Kelly Bushing: 1956'  
Total Depth: 3432' Plug Back Total Depth: 3422'  
Amount of Surface Pipe Set and Cemented at 463 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 cm.

Drilling Fluid Management Plan AFFINH 9-9-08  
(Data must be collected from the Reserve Pit)  
Chloride content 43,000 ppm Fluid volume 500 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: Michael A. Smith  
Title: ENGINEERING TECHNICIAN Date: 30/JAN/08  
Subscribed and sworn to before me this 30<sup>th</sup> day of January, 2008.  
Notary Public: Diana E Bell  
Date Commission Expires: Aug 10, 2011

DIANA E. BELL  
Notary Public - State of Kansas  
My Appt. Expires 8-10-11

KCC Office Use ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 30 2008

CONSERVATION DIVISION  
WICHITA, KS

JAN 30 2008

Operator Name: Berexco Inc. Lease Name: Thorne C Well #: 3  
 Sec. 22 Twp. 16 S. R. 13  East  West County: Barton KCC

**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 <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Dual Compensated Porosity Log      Gamma Ray Neutron Dual Induction Log                      CCL Log Microresistivity Log                  Borehole Compensated Sonic Log	<input checked="" type="checkbox"/> Log      Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Name</td> <td style="width: 20%;">Top</td> <td style="width: 20%;">Datum</td> </tr> <tr> <td>Topeka</td> <td>2794'</td> <td>(-838')</td> </tr> <tr> <td>Heebner</td> <td>3072'</td> <td>(-1116')</td> </tr> <tr> <td>Lansing</td> <td>3164'</td> <td>(-1208')</td> </tr> <tr> <td>Base KS City</td> <td>3383'</td> <td>(-1427')</td> </tr> <tr> <td>Arbuckle</td> <td>3416'</td> <td>(-1460')</td> </tr> </table>	Name	Top	Datum	Topeka	2794'	(-838')	Heebner	3072'	(-1116')	Lansing	3164'	(-1208')	Base KS City	3383'	(-1427')	Arbuckle	3416'	(-1460')
Name	Top	Datum																	
Topeka	2794'	(-838')																	
Heebner	3072'	(-1116')																	
Lansing	3164'	(-1208')																	
Base KS City	3383'	(-1427')																	
Arbuckle	3416'	(-1460')																	

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	14 3/4"	10 3/4"	40.5	463'	Comm	300	2%gel, 3%cc
Production	9 7/8"	7"	23 & 20	3431'	Lite	100	1/4# floeal
					ASC	160	2%gel, 5#Gilson

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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
4 SPF	3415' - 3418' (Arbuckle)		3415'-18'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 1/16"	3343'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method		
22 January 2008		<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
	83	no gas	83	no gas

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input checked="" type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	3415' - 3418'

RECEIVED KANSAS CORPORATION COMMISSION

JAN 30 2008

Operator Name: Berexo Inc. Lease Name: Thorne C Well #: 3  
 Sec. 22 Twp. 16 S. R. 13  East  West County: Barton

**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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	2794'	(-838')
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3072'	(-1116')
List All E. Logs Run:		Lansing	3164'	(-1208')
Dual Compensated Porosity Log	Gamma Ray Neutron	Base KS City	3383'	(-1427')
Dual Induction Log	CCL Log	Arbuckle	3416'	(-1460')
Microresistivity Log	Borehole Compensated Sonic Log			

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	14 3/4"	10 3/4"	40.5	463'	Comm	300	2%gel, 3%cc
Production	9 7/8"	7"	23 & 20	3431'	Lite	100	1/4# floseal
					ASC	160	2%gel, 5#Gilson

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 (Amount and Kind of Material Used)	Depth
4 SPF	3300' - 3305' (L/KC H)	650 gals 15% NEFE	3300'-05'
4 SPF	3231' - 3234' (L/KC E)	750 gals 15% NEFE	3231'-34'
4 SPF	3194' - 3198' (L/KC B)	750 gals 15% NEFE	3194'-98'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"	3385'	3383'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr. 18 January 2008	Producing Method <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. 15	Gas Mcf no gas	Water Bbls. 233	Gas-Oil Ratio no gas	Gravity
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Disposition of Gas:  Vented  Sold  Used on Lease *(If vented, Sumit ACO-18.)*

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: 3194' - 3305'

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 30 2008

CONSERVATION DIVISION  
WICHITA, KS

(THREE PAGES)

# BEREXCO INC.

30 January 2008

Kansas Corporation commission  
Oil & Gas Conservation Division  
Wichita State Office Building  
130 South Market, Room 2078  
Wichita, KS 67202-3802

CONFIDENTIAL  
JAN 30  
KCC

RE: Thorne C #3  
Sec 22-T16S-R13W (790' fsl, 1640' fel)  
Barton County, Kansas  
API # 15-09-25087-00-00

Gentlemen:

Please find enclosed the original and two copies of the Well Completion Form ACO-1, Drill Stem Test results and all wireline logs run at this location. These are: Dual Compensated Porosity Log, Dual Induction Log, Borehole Compensated Sonic Log, Microresistivity Log & Gamma Ray Neutron CCL Log. Also included are copies of the cementing tickets and the Geologist's Report for the above referenced well. Please hold all information **CONFIDENTIAL**. Thank you for your attention to this matter.

Sincerely,



Richard Smith  
Engineering Technician  
(316) 337-8334  
(316) 265-2994 (fax)  
rsmith@berexco.com

Enclosures

cc: Charles Spradlin  
Well File

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 30 2008  
CONSERVATION DIVISION  
WICHITA, KS

# BEREXCO INC.

30 January 2008

Kansas Corporation commission  
Oil & Gas Conservation Division  
Wichita State Office Building  
130 South Market, Room 2078  
Wichita, KS 67202-3802

RE: Thorne C #3  
Sec 22-T16S-R13W (790' fel, 1640' fel)  
Barton County, Kansas  
API # 15-009-25087-00-00

Gentlemen:

The Well Completion Form ACO-1, the wireline logs, the Geologists Report, copies of the cementing tickets and Drill Stem Test Reports for the above referenced well have been submitted and are being held confidential per our request. Please renew the **CONFIDENTIAL** status of this information for the second year. Thank you for your attention to this matter.

Sincerely,



Richard Smith  
Engineering Technician  
(316) 337-8334  
(316) 265-2994 (fax)  
rsmith@berexco.com

CONFIDENTIAL  
JAN 30 2008  
KCC

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 30 2008  
CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., INC.

24705

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

SERVICE POINT:

Russell

DATE <u>10/13/07</u>	SEC. <u>22</u>	TWP. <u>16</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00 p.m.</u>	JOB FINISH <u>1:00 p.m.</u>
LEASE <u>Thorne</u>			WELL # <u>663</u>	LOCATION <u>Susank 2E N Into</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Berexco

TYPE OF JOB Production String

HOLE SIZE \_\_\_\_\_ T.D. 3432

CASING SIZE 7" 130 23# DEPTH 3434

TUBING SIZE 2 1/2" 20# DEPTH \_\_\_\_\_

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

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

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

MEAS. LINE \_\_\_\_\_ SHOE JOINT 68.64

CEMENT LEFT IN CSG. 68.64

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

DISPLACEMENT 134.85 BL

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER Craig/Bill

# 409 HELPER Adrian

BULK TRUCK \_\_\_\_\_

# 345 DRIVER Doug

BULK TRUCK \_\_\_\_\_

# 410 DRIVER Chuck

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 125 Lite 1/4# Flo

160 ASC 29661 5# Gilsenite per SK

COMMON _____	@ _____		
POZMIX _____	@ _____		
GEL _____	@ _____		
CHLORIDE _____	@ _____		
ASC _____	@ _____		
<u>125 Lite</u>	@ <u>10.45</u>		<u>1306.25</u>
<u>Flo Seal 311bs</u>	@ <u>2.00lb</u>		<u>62.00</u>
<u>Gilsenite 321bs</u>	@ <u>.70</u>		<u>22.40</u>
RECEIVED _____	@ _____		
KANSAS CORPORATION COMMISSION _____	@ _____		
JAN 30 2008 _____	@ _____		
HANDLING _____	@ _____		
CONSERVATION DIVISION _____	@ _____		
MILEAGE _____	@ _____		
<u>289</u>	@ <u>1.90</u>		<u>549.10</u>
<u>.09/sk/mile</u>			<u>624.24</u>
		TOTAL	<u>4830.59</u>

REMARKS:

Plug (under) is open. Held. Released.  
DRY

Thanks!

CHARGE TO: Berexco

STREET \_\_\_\_\_

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



TOTAL 1754.00

PLUG & FLOAT EQUIPMENT

<u>7" Guideshoe</u>			<u>175.00</u>
<u>1 AFU Insert</u>	@ <u>300</u>		<u>300.00</u>
<u>1 Latchdown Assembly</u>	@ _____		<u>575.00</u>
<u>1 Basket</u>	@ _____		<u>180.00</u>
<u>8 Centralizers</u>	@ <u>54.00</u>		<u>432.00</u>

TOTAL 1662.00

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

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

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

Charged 10/15

SIGNATURE Robert Hunt

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

# ALLIED CEMENTING COMPANY

NOV 15 2007 25755

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

SERVICE POINT:

Russell

DATE <u>10-2-07</u>	SEC. <u>22</u>	TWP. <u>16s</u>	RANGE <u>13w</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 PM</u>	JOB FINISH <u>10:00 PM</u>
LEASE <u>THORNE</u>		WELL # <u>C-3</u>	LOCATION <u>SUSANK 1/4 E 1/4 N INTO</u>		COUNTY <u>BARTON</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Berexco Dalg. Rig #10 OWNER \_\_\_\_\_

TYPE OF JOB LONG SURFACE

HOLE SIZE 14 3/4 T.D. 463'

CASING SIZE 10 3/4 DEPTH \_\_\_\_\_

TUBING SIZE 40.50 # DEPTH \_\_\_\_\_

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

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

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

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

CEMENT LEFT IN CSG. 10-15'

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

DISPLACEMENT 44 / BBL

CEMENT AMOUNT ORDERED 300 SK Com.

2% Gels

3% CC

COMMON	<u>300</u>	@	<u>1110</u>	<u>3330.00</u>
POZMIX		@		
GEL	<u>6</u>	@	<u>16.65</u>	<u>99.90</u>
CHLORIDE	<u>9</u>	@	<u>46.60</u>	<u>419.40</u>
ASC		@		

**EQUIPMENT**

PUMP TRUCK CEMENTER Glenn

# 398 HELPER Gary

BULK TRUCK

# 362 DRIVER Matt

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

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KANSAS CORPORATION COMMISSION

**JAN 30 2008**

CONSERVATION DIVISION  
WICHITA, KS

HANDLING <u>315 TOTAL SK</u>	@	<u>190</u>	<u>598.50</u>
MILEAGE <u>24 Ton Mile</u>			<u>680.00</u>
<b>TOTAL</b>			<u>1278.50</u>

REMARKS: 10.192

465 TOTAL Pipe

Cement Circulated

THANK'S

CHARGE TO: Berexco Inc.

STREET \_\_\_\_\_

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

**SERVICE**

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

PUMP TRUCK CHARGE \_\_\_\_\_ 815.00

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

MILEAGE 24 @ 6.00 144.00

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

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

**TOTAL** 959.00

**PLUG & FLOAT EQUIPMENT**

10 3/4 Cup Plug @ 80.00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

**TOTAL** 80.00

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

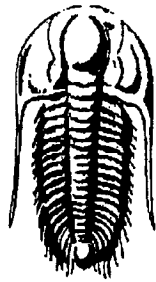
SIGNATURE Mari R. Jordan

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

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

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380  
Wichita, KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

**Thorne C-3**

Start Date: 2007.10.07 @ 13:02:55

End Date: 2007.10.07 @ 21:32:25

Job Ticket #: 30063                      DST #: 1

CONFIDENTIAL

JAN 30 2008

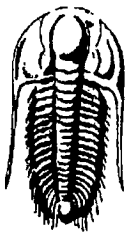
KCC

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
 PO Box 20380  
 Wichita, KS 67208  
 ATTN: Bruce Reed

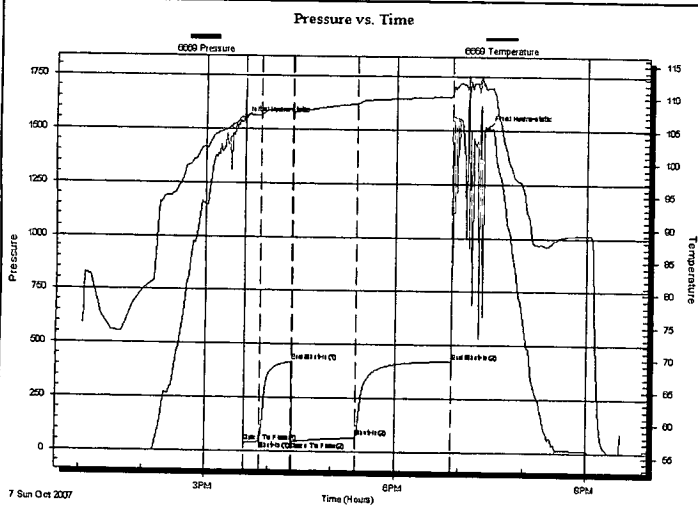
**Thorne C-3**  
**22 16S 13W Barton KS**  
 Job Ticket: 30063      DST#: 1  
 Test Start: 2007.10.07 @ 13:02:55

## GENERAL INFORMATION:

Formation: "A"  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 15:37:55  
 Time Test Ended: 21:32:25  
 Test Type: Conventional Bottom Hole  
 Tester: Kyle Kinderknecht  
 Unit No: 31  
 Interval: 3158.00 ft (KB) To 3180.00 ft (KB) (TVD)  
 Total Depth: 3180.00 ft (KB) (TVD)  
 Hole Diameter: 9.88 inches Hole Condition: Good  
 Reference Elevations: 1956.00 ft (KB)  
 1944.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 6669      Inside**  
 Press@RunDepth: 66.34 psig @ 3160.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.10.07      End Date: 2007.10.07      Last Calib.: 2007.10.07  
 Start Time: 13:03:00      End Time: 21:32:24      Time On Btm: 2007.10.07 @ 15:35:55  
 Time Off Btm: 2007.10.07 @ 19:24:55

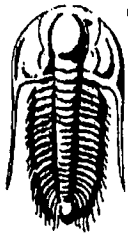
TEST COMMENT: IF 4 1/2 "  
 ISI No blow  
 FF 5 "  
 FSI No blow



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.44	106.82	Initial Hydro-static
2	39.85	106.58	Open To Flow (1)
16	44.44	107.22	Shut-In(1)
46	417.81	108.23	End Shut-In(1)
47	46.57	107.47	Open To Flow (2)
107	66.34	109.08	Shut-In(2)
197	424.63	110.29	End Shut-In(2)
229	1505.40	111.49	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	GOWCM 5%G 5%O 20%W 70%M	0.30
20.00	OCM 5%O 95%M	0.10

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco

**Thorne C-3**

PO Box 20380  
Wichita, KS 67208

**22 16S 13W Barton KS**

Job Ticket: 30063

DST#: 1

ATTN: Bruce Reed

Test Start: 2007.10.07 @ 13:02:55

## Tool Information

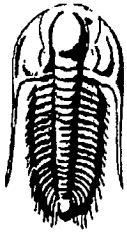
Drill Pipe:	Length: 2963.00 ft	Diameter: 3.34 inches	Volume: 32.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 32.96 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3158.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

### Tool Comments:

Set off jars 15 times to get free 8' of perf plugged

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3130.00	
Shut In Tool	5.00			3135.00	
Hydraulic tool	5.00			3140.00	
Jars	5.00			3145.00	
Safety Joint	3.00			3148.00	
Change Over Sub	1.00			3149.00	
Packer	4.00			3153.00	29.00 Bottom Of Top Packer
Packer	5.00			3158.00	
Stubb	1.00			3159.00	
Change Over Sub	1.00			3160.00	
Recorder	0.00	6669	Inside	3160.00	
Perforations	17.00			3177.00	
Recorder	0.00	11084	Outside	3177.00	
Bullnose	3.00			3180.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco

Thorne C-3

PO Box 20380  
Wichita, KS 67208

22 16S 13W Barton KS

ATTN: Bruce Reed

Job Ticket: 30063

DST#: 1

Test Start: 2007.10.07 @ 13:02:55

**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: 10.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOWCM 5%G 5%O 20%W 70%M	0.295
20.00	OCM 5%O 95%M	0.098

Total Length: 80.00 ft      Total Volume: 0.393 bbl

Num Fluid Samples: 0

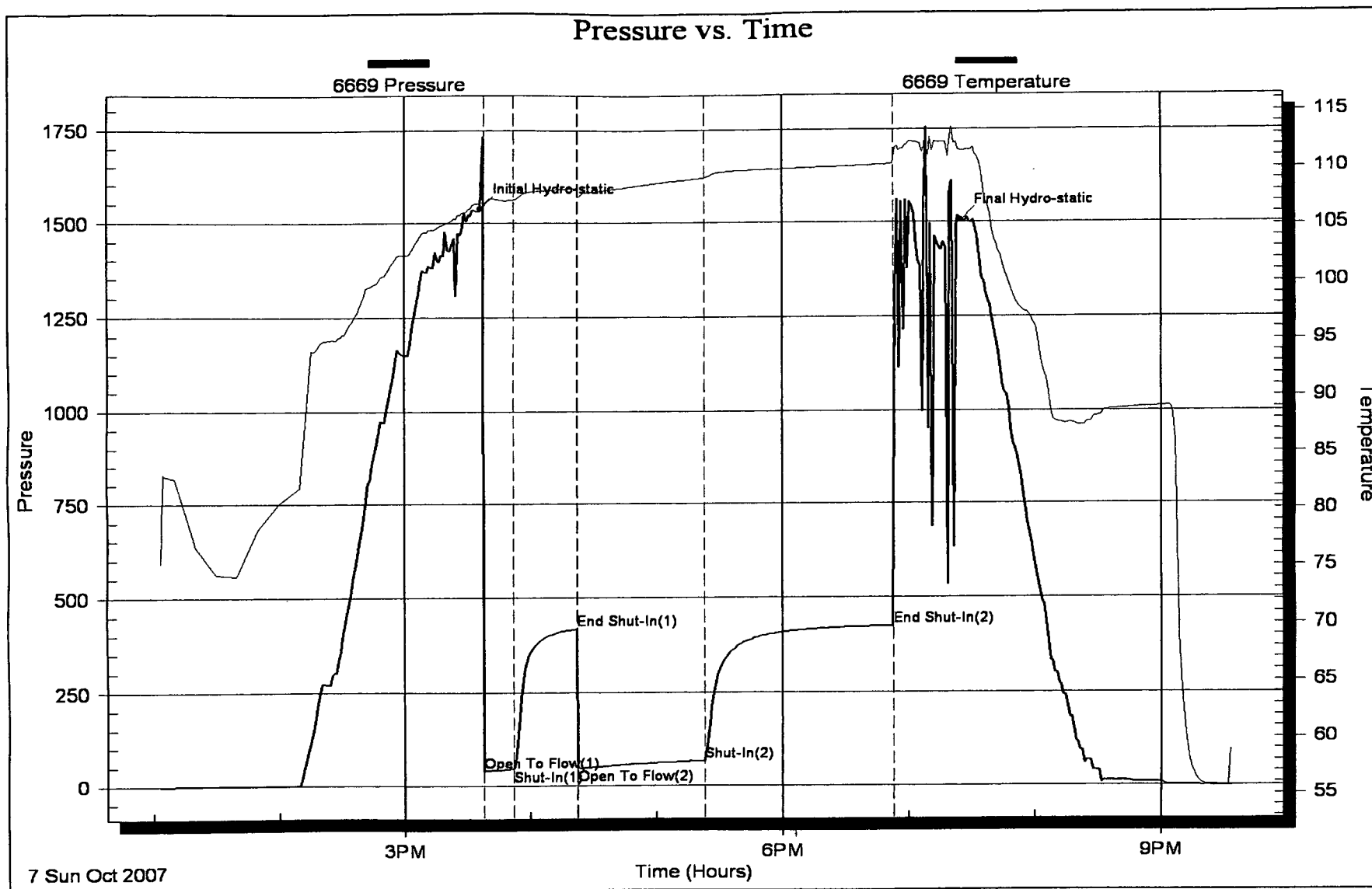
Num Gas Bombs: 0

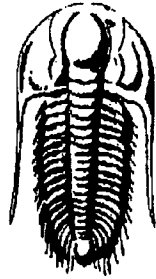
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380  
Wichita, KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

**Thorne C-3**

Start Date: 2007.10.08 @ 09:16:42

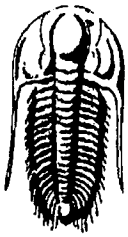
End Date: 2007.10.08 @ 16:11:12

Job Ticket #: 30064                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco  
PO Box 20380  
Wichita, KS 67208  
ATTN: Bruce Reed

**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30064      DST#: 2  
Test Start: 2007.10.08 @ 09:16:42

## GENERAL INFORMATION:

Formation: "B"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:08:12  
Time Test Ended: 16:11:12  
Interval: **3186.00 ft (KB) To 3206.00 ft (KB) (TVD)**  
Total Depth: 3206.00 ft (KB) (TVD)  
Hole Diameter: 9.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole  
Tester: Kyle Kinderknecht  
Unit No: 31  
Reference Elevations: 1956.00 ft (KB)  
1944.00 ft (CF)  
KB to GR/CF: 12.00 ft

## Serial #: 6669

Inside

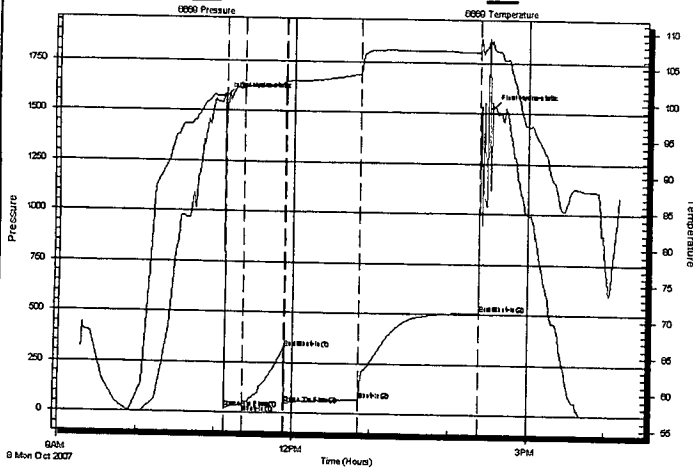
Press@RunDepth: 69.17 psig @ 3188.00 ft (KB)  
Start Date: 2007.10.08      End Date: 2007.10.08  
Start Time: 09:16:47      End Time: 16:11:11

Capacity: 7000.00 psig  
Last Calib.: 2007.10.08  
Time On Btm: 2007.10.08 @ 11:07:12  
Time Off Btm: 2007.10.08 @ 14:32:42

## TEST COMMENT: IF 5 1/2 "

ISI No blow  
FF BOB 5 min  
FSI Weak surface died 45 min

Pressure vs. Time



## PRESSURE SUMMARY

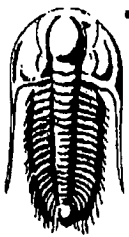
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1571.04	101.14	Initial Hydro-static
1	20.11	98.62	Open To Flow (1)
15	40.41	101.96	Shut-In(1)
46	323.58	102.59	End Shut-In(1)
47	46.62	102.88	Open To Flow (2)
104	69.17	104.03	Shut-In(2)
196	508.41	107.30	End Shut-In(2)
206	1525.35	108.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	GMCO 50%G 35%O 15%M	0.39
50.00	OCM 10%O 90%M	0.25
350.00	GIP	3.54

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Berexco  
PO Box 20380  
Wichita, KS 67208  
  
ATTN: Bruce Reed

**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30064      **DST#: 2**  
Test Start: 2007.10.08 @ 09:16:42

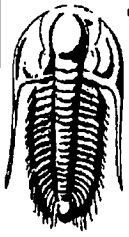
**Tool Information**

Drill Pipe:	Length: 2991.00 ft	Diameter: 3.34 inches	Volume: 32.41 bbl	Tool Weight: 2500.00 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: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 130000.0 lb
			<b>Total Volume: 33.26 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3186.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3158.00	
Shut In Tool	5.00			3163.00	
Hydraulic tool	5.00			3168.00	
Jars	5.00			3173.00	
Safety Joint	3.00			3176.00	
Change Over Sub	1.00			3177.00	
Packer	4.00			3181.00	29.00      Bottom Of Top Packer
Packer	5.00			3186.00	
Stubb	1.00			3187.00	
Change Over Sub	1.00			3188.00	
Recorder	0.00	6669	Inside	3188.00	
Perforations	15.00			3203.00	
Recorder	0.00	11084	Outside	3203.00	
Bullnose	3.00			3206.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco  
PO Box 20380  
Wichita, KS 67208  
ATTN: Bruce Reed

**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30064      DST#: 2  
Test Start: 2007.10.08 @ 09:16:42

**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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.85 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

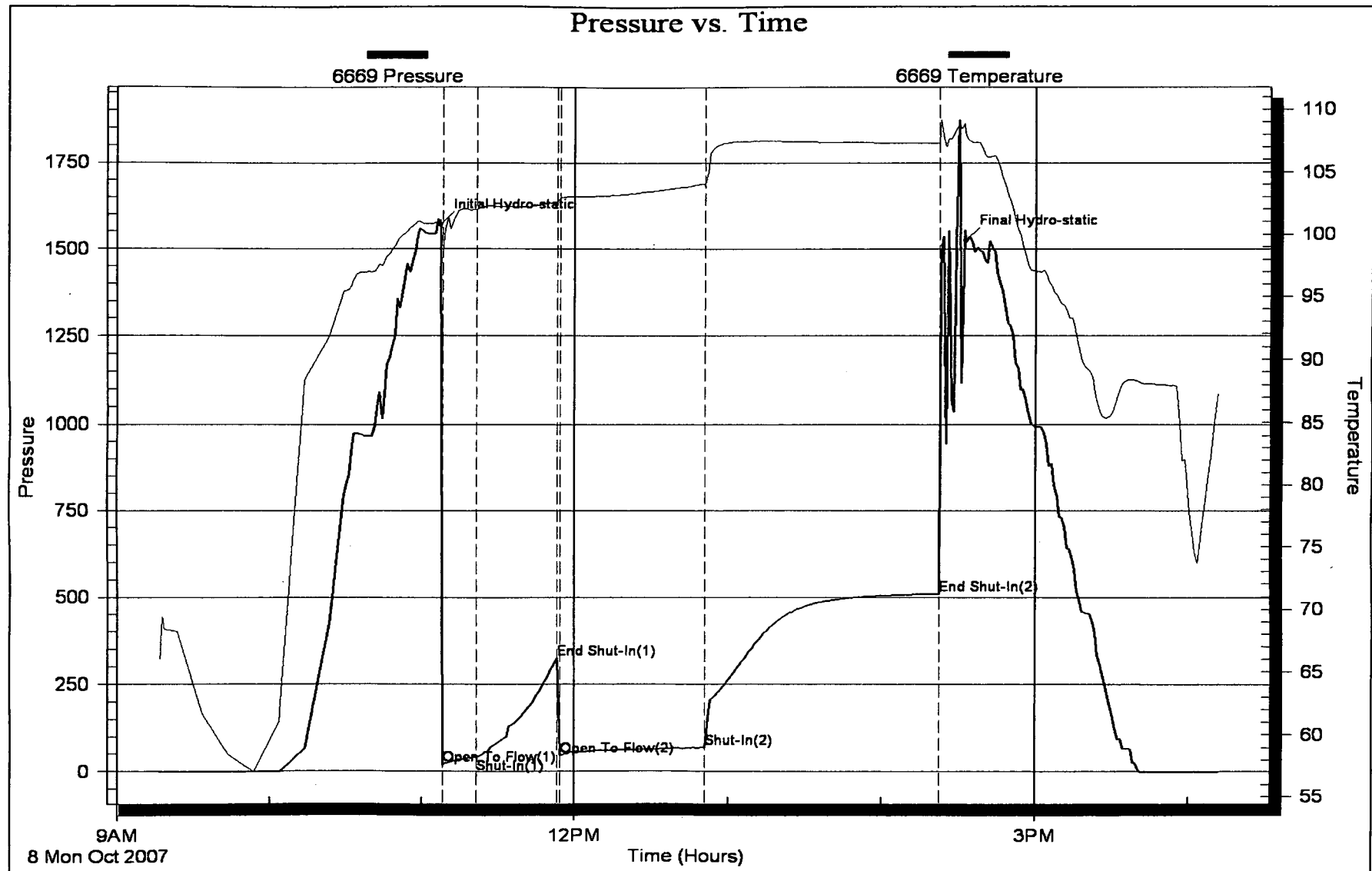
**Recovery Information**

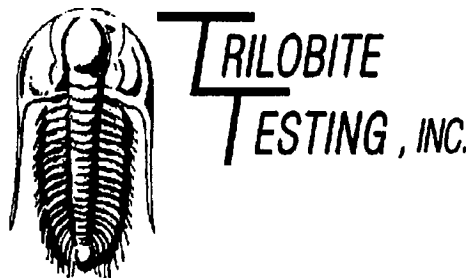
Recovery Table

Length ft	Description	Volume bbl
80.00	GMCO 50%G 35%O 15%M	0.393
50.00	OCM 10%O 90%M	0.246
350.00	GIP	3.544

Total Length: 480.00 ft      Total Volume: 4.183 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







**DRILL STEM TEST REPORT**

Prepared For: **Berexco**

PO Box 20380  
Wichita,KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

**Thorne C-3**

Start Date: 2007.10.09 @ 01:42:16

End Date: 2007.10.09 @ 09:17:46

Job Ticket #: 30065                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Berexco  
 PO Box 20380  
 Wichita, KS 67208  
 ATTN: Bruce Reed

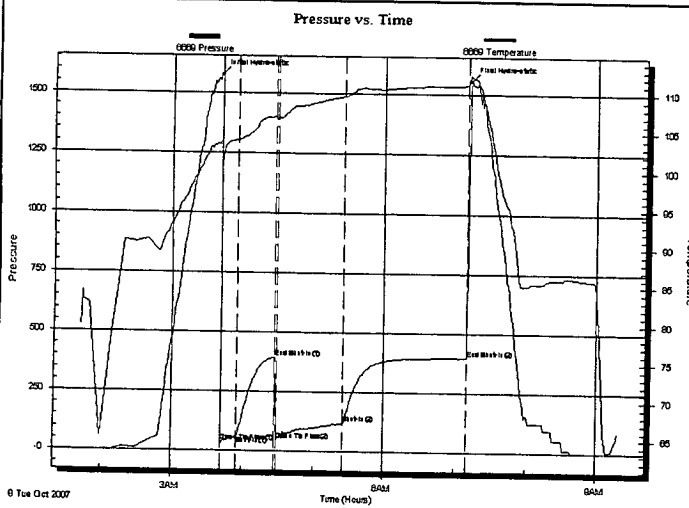
**Thorne C-3**  
**22 16S 13W Barton KS**  
 Job Ticket: 30065      DST#: 3  
 Test Start: 2007.10.09 @ 01:42:16

**GENERAL INFORMATION:**

Formation: "C-E"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:42:16  
 Time Test Ended: 09:17:46  
 Interval: 3208.00 ft (KB) To 3242.00 ft (KB) (TVD)  
 Total Depth: 3242.00 ft (KB) (TVD)  
 Hole Diameter: 9.88 inches  
 Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Kyle Kinderknecht  
 Unit No: 31  
 Reference Elevations: 1956.00 ft (KB)  
 1944.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 6669**      Inside  
 Press@RunDepth: 117.63 psig @ 3210.00 ft (KB)  
 Start Date: 2007.10.09      End Date: 2007.10.09  
 Start Time: 01:42:21      End Time: 09:17:45  
 Capacity: 7000.00 psig  
 Last Calib.: 2007.10.09  
 Time On Btm: 2007.10.09 @ 03:41:16  
 Time Off Btm: 2007.10.09 @ 07:12:46

**TEST COMMENT:** IF BOB 3 1/2 min  
 ISI Weak surface died 15 min  
 FF BOB 1min  
 FSI 1/2 "



**PRESSURE SUMMARY**

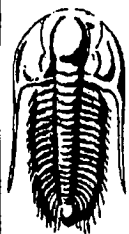
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.71	103.62	Initial Hydro-static
1	38.54	101.06	Open To Flow (1)
14	60.18	103.92	Shut-In(1)
46	395.04	106.92	End Shut-In(1)
48	46.93	106.82	Open To Flow (2)
104	117.63	109.63	Shut-In(2)
210	398.07	111.13	End Shut-In(2)
212	1554.39	112.26	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
250.00	GHOCM 30%G 40%O 30%M	1.69
1550.00	GIP	16.80

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco  
PO Box 20380  
Wichita, KS 67208  
  
ATTN: Bruce Reed

**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30066      **DST#: 4**  
Test Start: 2007.10.09 @ 19:47:28

**Tool Information**

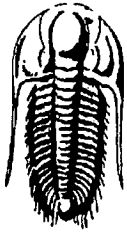
Drill Pipe:	Length: 3085.00 ft	Diameter: 3.34 inches	Volume: 33.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 130000.0 lb
			<u>Total Volume: 34.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3256.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3228.00	
Shut In Tool	5.00			3233.00	
Hydraulic tool	5.00			3238.00	
Jars	5.00			3243.00	
Safety Joint	3.00			3246.00	
Change Over Sub	1.00			3247.00	
Packer	4.00			3251.00	29.00      Bottom Of Top Packer
Packer	5.00			3256.00	
Stubb	1.00			3257.00	
Change Over Sub	1.00			3258.00	
Recorder	0.00	6669	Inside	3258.00	
Perforations	9.00			3267.00	
Recorder	0.00	11084	Outside	3267.00	
Bullnose	3.00			3270.00	14.00      Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco  
PO Box 20380  
Wichita, KS 67208  
ATTN: Bruce Reed

Thorne C-3  
22 16S 13W Barton KS  
Job Ticket: 30066      DST#: 4  
Test Start: 2007.10.09 @ 19:47:28

## Mud and Cushion Information

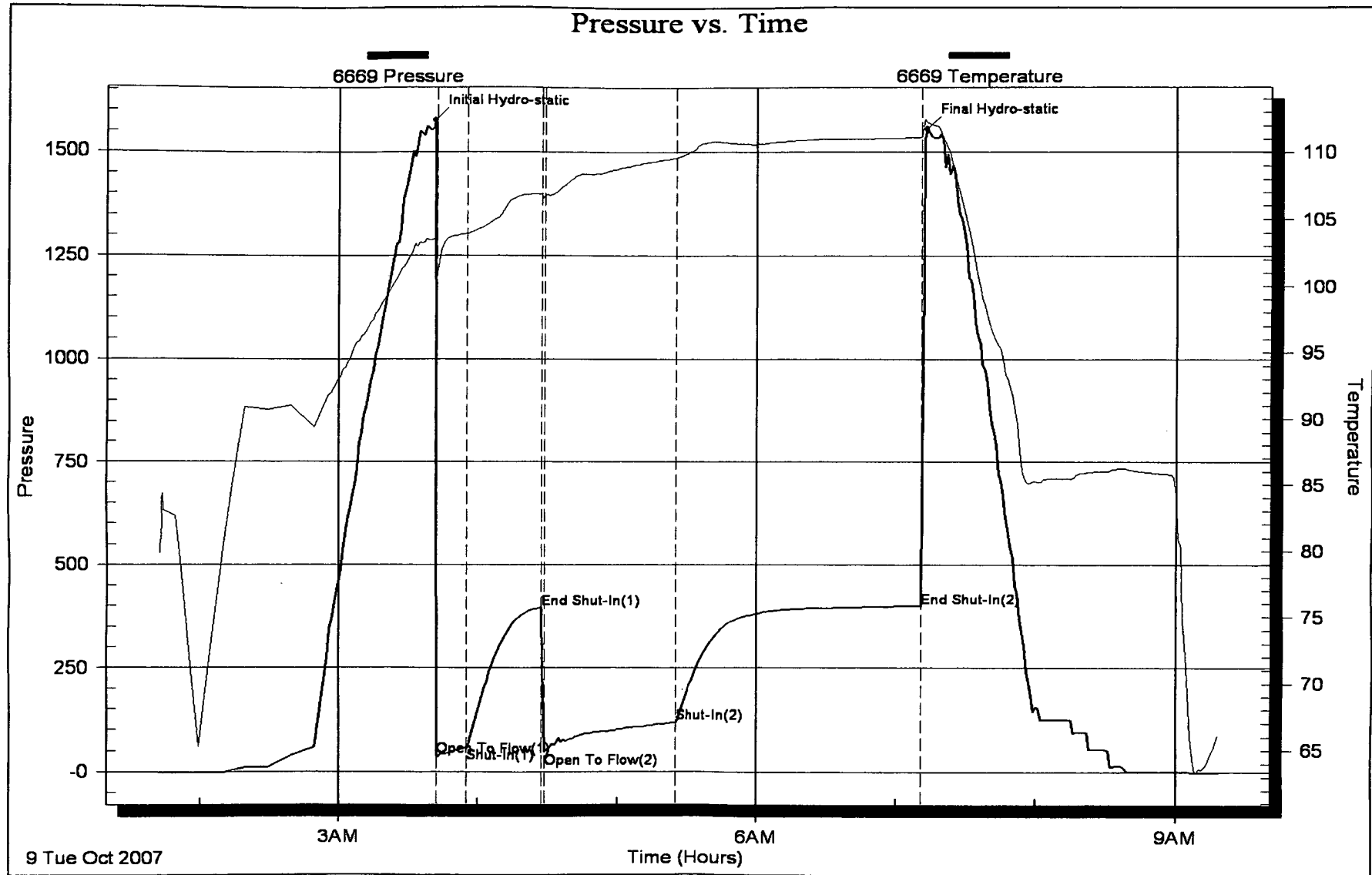
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

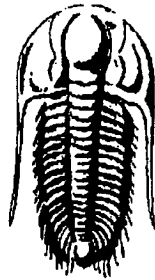
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380  
Wichita, KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

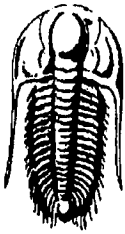
**Thorne C-3**

Start Date: 2007.10.09 @ 19:47:28

End Date: 2007.10.10 @ 01:56:58

Job Ticket #: 30066                      DST #: 4

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco  
PO Box 20380  
Wichita, KS 67208

**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30066      **DST#: 4**  
Test Start: 2007.10.09 @ 19:47:28

ATTN: Bruce Reed

## GENERAL INFORMATION:

Formation: "F-G"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:21:58  
Time Test Ended: 01:56:58

Test Type: Conventional Bottom Hole  
Tester: Kyle Kinderknecht  
Unit No: 31

Interval: **3256.00 ft (KB) To 3270.00 ft (KB) (TVD)**  
Total Depth: 3270.00 ft (KB) (TVD)  
Hole Diameter: 9.88 inches Hole Condition: Good

Reference Elevations: 1956.00 ft (KB)  
1944.00 ft (CF)  
KB to GR/CF: 12.00 ft

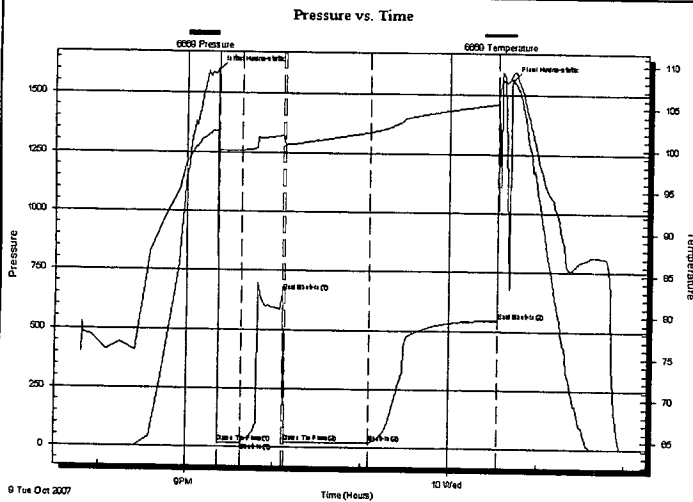
## Serial #: 6669

Inside

Press@RunDepth: 22.97 psig @ 3258.00 ft (KB)  
Start Date: 2007.10.09      End Date: 2007.10.10  
Start Time: 19:47:33      End Time: 01:56:57

Capacity: 7000.00 psig  
Last Calib.: 2007.10.10  
Time On Btm: 2007.10.09 @ 21:21:28  
Time Off Btm: 2007.10.10 @ 00:42:58

TEST COMMENT: IF 1/2 "  
ISI No blow  
FF No blow  
FSI No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.14	102.14	Initial Hydro-static
1	17.58	99.63	Open To Flow (1)
17	19.30	99.73	Shut-In(1)
45	660.30	101.71	End Shut-In(1)
46	20.89	100.39	Open To Flow (2)
104	22.97	102.01	Shut-In(2)
192	545.12	105.50	End Shut-In(2)
202	1562.08	109.18	Final Hydro-static

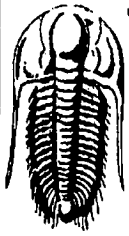
## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.10

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco

Thorne C-3

PO Box 20380  
Wichita, KS 67208

22 16S 13W Barton KS

Job Ticket: 30065

DST#: 3

ATTN: Bruce Reed

Test Start: 2007.10.09 @ 01:42:16

**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: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.86 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
250.00	GHOCM 30%G 40%O 30%M	1.691
1550.00	GIP	16.797

Total Length: 1800.00 ft

Total Volume: 18.488 bbl

Num Fluid Samples: 0

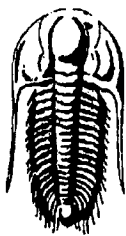
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco

**Thorne C-3**

PO Box 20380  
Wichita, KS 67208

**22 16S 13W Barton KS**

Job Ticket: 30065

**DST#: 3**

ATTN: Bruce Reed

Test Start: 2007.10.09 @ 01:42:16

## Tool Information

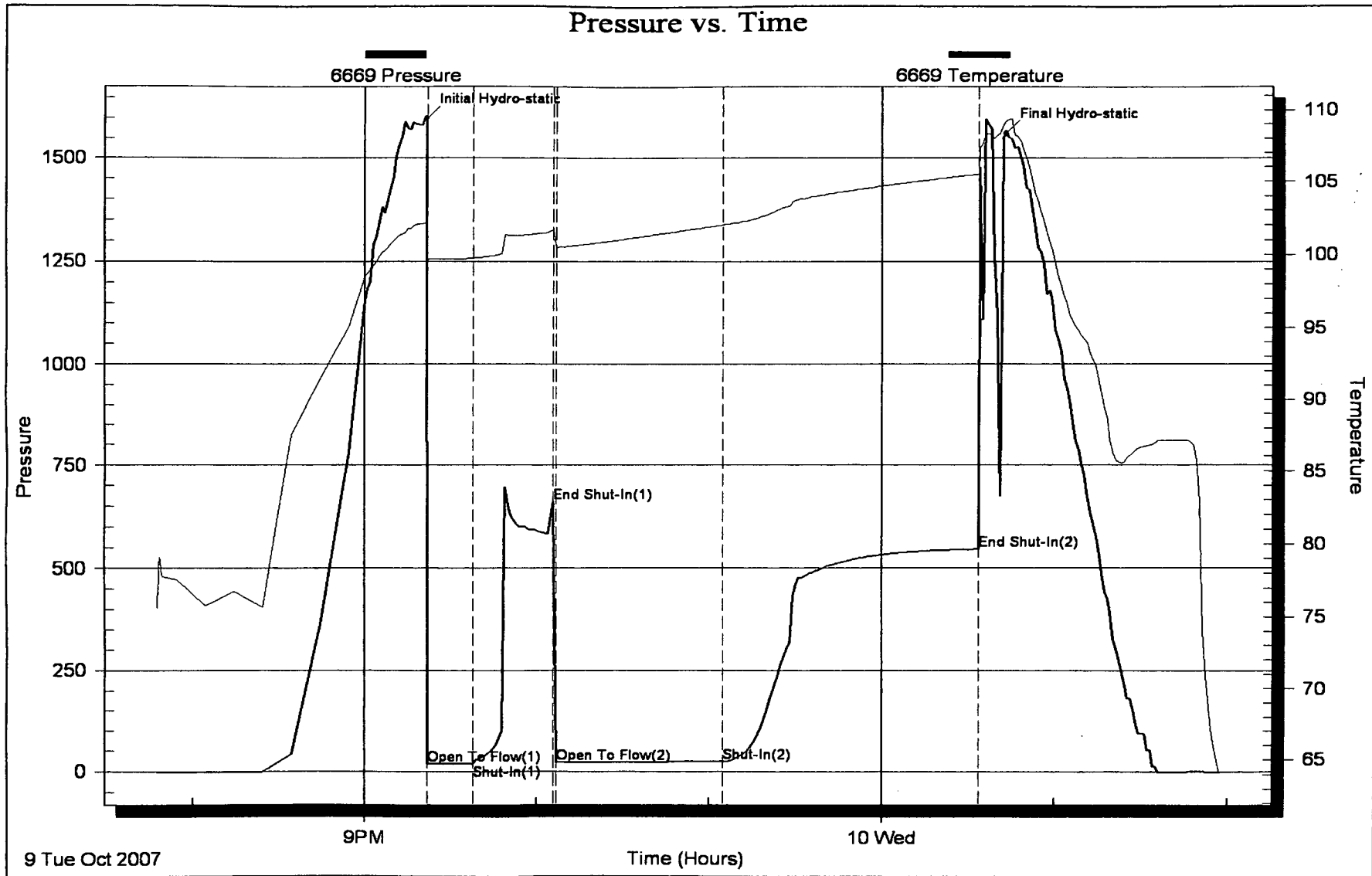
Drill Pipe:	Length: 3022.00 ft	Diameter: 3.34 inches	Volume: 32.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 37000.00 lb
			<u>Total Volume: 33.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3208.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

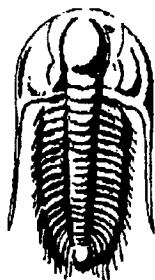
Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3180.00	
Shut In Tool	5.00			3185.00	
Hydraulic tool	5.00			3190.00	
Jars	5.00			3195.00	
Safety Joint	3.00			3198.00	
Change Over Sub	1.00			3199.00	
Packer	4.00			3203.00	29.00 Bottom Of Top Packer
Packer	5.00			3208.00	
Stubb	1.00			3209.00	
Change Over Sub	1.00			3210.00	
Recorder	0.00	6669	Inside	3210.00	
Perforations	29.00			3239.00	
Recorder	0.00	11084	Outside	3239.00	
Bullnose	3.00			3242.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380  
Wichita, KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

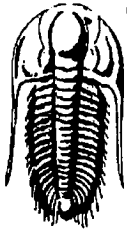
**Thorne C-3**

Start Date: 2007.10.10 @ 07:35:22

End Date: 2007.10.10 @ 14:41:52

Job Ticket #: 30067                      DST #: 5

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Berexco  
PO Box 20380  
Wichita, KS 67208  
ATTN: Bruce Reed

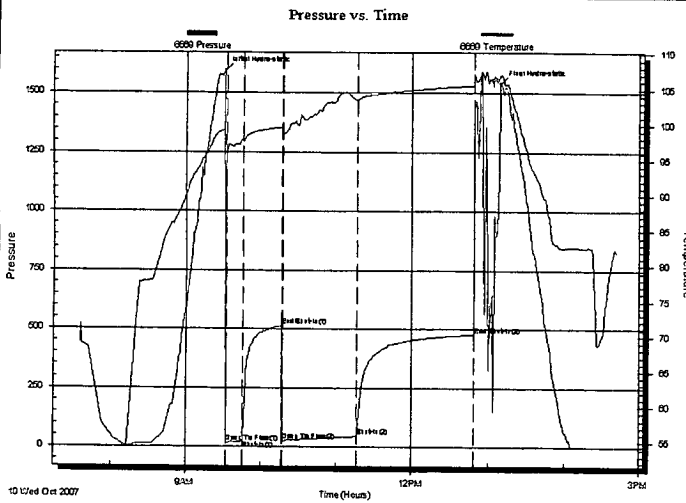
**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30067      DST#: 5  
Test Start: 2007.10.10 @ 07:35:22

## GENERAL INFORMATION:

Formation: "F-G"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:31:52  
Time Test Ended: 14:41:52  
Interval: 3244.00 ft (KB) To 3270.00 ft (KB) (TVD)  
Total Depth: 3270.00 ft (KB) (TVD)  
Hole Diameter: 9.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Kyle Kinderknecht  
Unit No: 31  
Reference Elevations: 1956.00 ft (KB)  
1944.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 6669**      Inside  
Press@RunDepth: 44.60 psig @ 3246.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.10.10      End Date: 2007.10.10      Last Calib.: 2007.10.10  
Start Time: 07:35:27      End Time: 14:41:51      Time On Btm: 2007.10.10 @ 09:30:52  
Time Off Btm: 2007.10.10 @ 13:09:22

TEST COMMENT: IF 1 1/2 "  
ISI No blow  
FF Weak surface died  
FSI No blow



## PRESSURE SUMMARY

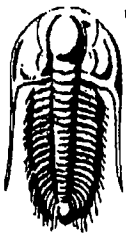
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.31	99.17	Initial Hydro-static
1	17.89	96.50	Open To Flow (1)
15	24.22	97.86	Shut-In(1)
46	512.44	99.64	End Shut-In(1)
47	25.33	98.72	Open To Flow (2)
106	44.60	103.40	Shut-In(2)
198	477.17	105.56	End Shut-In(2)
219	1540.15	106.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud	0.39

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco

**Thorne C-3**

PO Box 20380  
Wichita, KS 67208

**22 16S 13W Barton KS**

Job Ticket: 30067

**DST#: 5**

ATTN: Bruce Reed

Test Start: 2007.10.10 @ 07:35:22

**Tool Information**

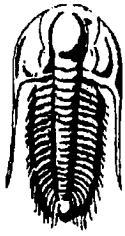
Drill Pipe:	Length: 3054.00 ft	Diameter: 3.34 inches	Volume: 33.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 33.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3244.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3216.00	
Shut In Tool	5.00			3221.00	
Hydraulic tool	5.00			3226.00	
Jars	5.00			3231.00	
Safety Joint	3.00			3234.00	
Change Over Sub	1.00			3235.00	
Packer	4.00			3239.00	29.00 Bottom Of Top Packer
Packer	5.00			3244.00	
Stubb	1.00			3245.00	
Change Over Sub	1.00			3246.00	
Recorder	0.00	6669	Inside	3246.00	
Perforations	21.00			3267.00	
Recorder	0.00	11084	Outside	3267.00	
Bullnose	3.00			3270.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco

Thorne C-3

PO Box 20380  
Wichita, KS 67208

22 16S 13W Barton KS

Job Ticket: 30067

DST#: 5

ATTN: Bruce Reed

Test Start: 2007.10.10 @ 07:35:22

**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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
80.00	Mud	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

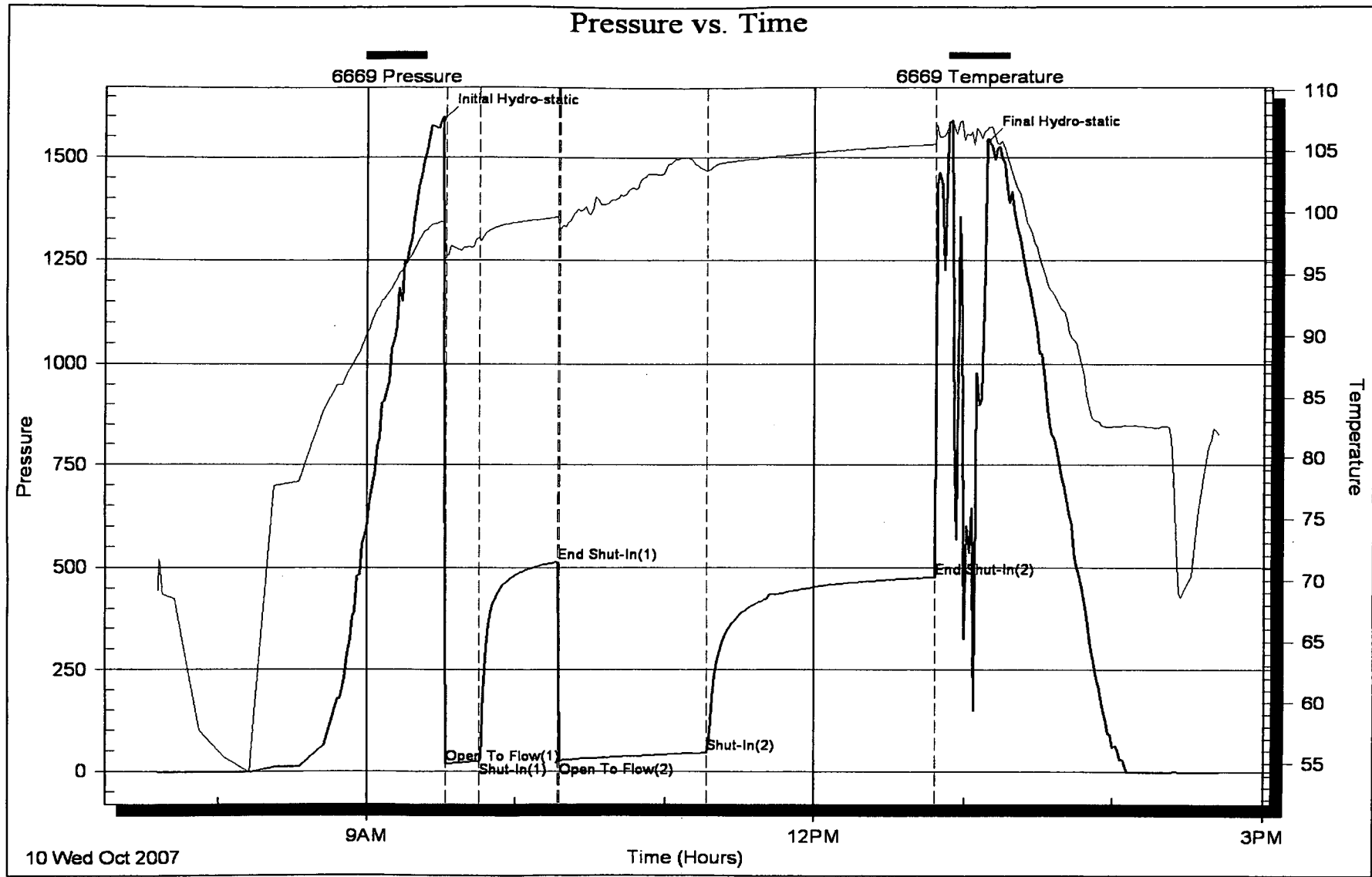
Num Gas Bombs: 0

Serial #:

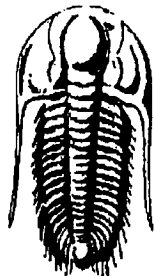
Laboratory Name:

Laboratory Location:

Recovery Comments:







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

## DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380  
Wichita, KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

**Thorne C-3**

Start Date: 2007.10.11 @ 08:15:56

End Date: 2007.10.11 @ 16:22:26

Job Ticket #: 30704                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Berexco  
 PO Box 20380  
 Wichita, KS 67208  
 ATTN: Bruce Reed

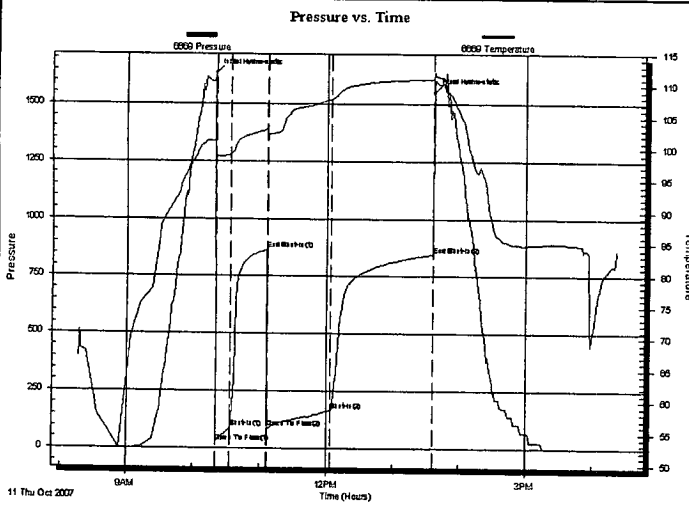
**Thorne C-3**  
**22 16S 13W Barton KS**  
 Job Ticket: 30704      DST#: 6  
 Test Start: 2007.10.11 @ 08:15:56

**GENERAL INFORMATION:**

Formation: "HJ"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:20:26  
 Time Test Ended: 16:22:26  
 Interval: **3288.00 ft (KB) To 3350.00 ft (KB) (TVD)**  
 Total Depth: 3350.00 ft (KB) (TVD)  
 Hole Diameter: 9.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Kyle Kinderknecht/ J  
 Unit No: 31  
 Reference Elevations: 1956.00 ft (KB)  
 1944.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 6669**      Inside  
 Press@RunDepth: 165.49 psig @ 3292.00 ft (KB)  
 Start Date: 2007.10.11      End Date: 2007.10.11  
 Start Time: 08:16:01      End Time: 16:22:25  
 Capacity: 7000.00 psig  
 Last Calib.: 2007.10.11  
 Time On Btm: 2007.10.11 @ 10:19:56  
 Time Off Btm: 2007.10.11 @ 13:36:56

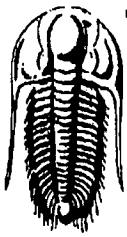
**TEST COMMENT:** IF Strong BOB 8 min.  
 ISI Weak Surface  
 FF Strong BOB 5 min.  
 FSI Strong built to 9"



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.63	101.35	Initial Hydro-static
1	25.61	98.75	Open To Flow (1)
14	89.65	99.13	Shut-In (1)
46	865.01	103.05	End Shut-In (1)
47	88.41	101.97	Open To Flow (2)
104	165.49	107.81	Shut-In (2)
197	845.67	111.04	End Shut-In (2)
197	1548.05	112.07	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
375.00	GMO 25%G 25%M 50%O	3.05
0.00	682 GIP	0.00

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Berexco

**Thorne C-3**

PO Box 20380  
Wichita, KS 67208

**22 16S 13W Barton KS**

Job Ticket: 30704

**DST#: 6**

ATTN: Bruce Reed

Test Start: 2007.10.11 @ 08:15:56

**Tool Information**

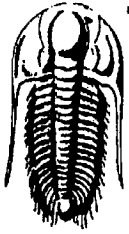
Drill Pipe:	Length: 3110.00 ft	Diameter: 3.34 inches	Volume: 33.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 60000.00 lb
		<b>Total Volume:</b>	<b>34.55 bbl</b>	Tool Chased 30.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3288.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3260.00	
Shut In Tool	5.00			3265.00	
Hydraulic tool	5.00			3270.00	
Jars	5.00			3275.00	
Safety Joint	3.00			3278.00	
Change Over Sub	1.00			3279.00	
Packer	4.00			3283.00	29.00 Bottom Of Top Packer
Packer	5.00			3288.00	
Stubb	1.00			3289.00	
Change Over Sub	1.00			3290.00	
Perforations	2.00			3292.00	
Recorder	0.00	6669	Inside	3292.00	
Change Over Sub	1.00			3293.00	
Blank Spacing	29.00			3322.00	
Change Over Sub	1.00			3323.00	
Recorder	0.00	11084	Outside	3323.00	
Perforations	24.00			3347.00	
Bullnose	3.00			3350.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Berexco

Thorne C-3

PO Box 20380  
Wichita, KS 67208

22 16S 13W Barton KS

ATTN: Bruce Reed

Job Ticket: 30704

DST#: 6

Test Start: 2007.10.11 @ 08:15:56

**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: 62.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
375.00	GMO 25%G 25%M 50%O	3.046
0.00	682 GIP	0.000

Total Length: 375.00 ft

Total Volume: 3.046 bbl

Num Fluid Samples: 0

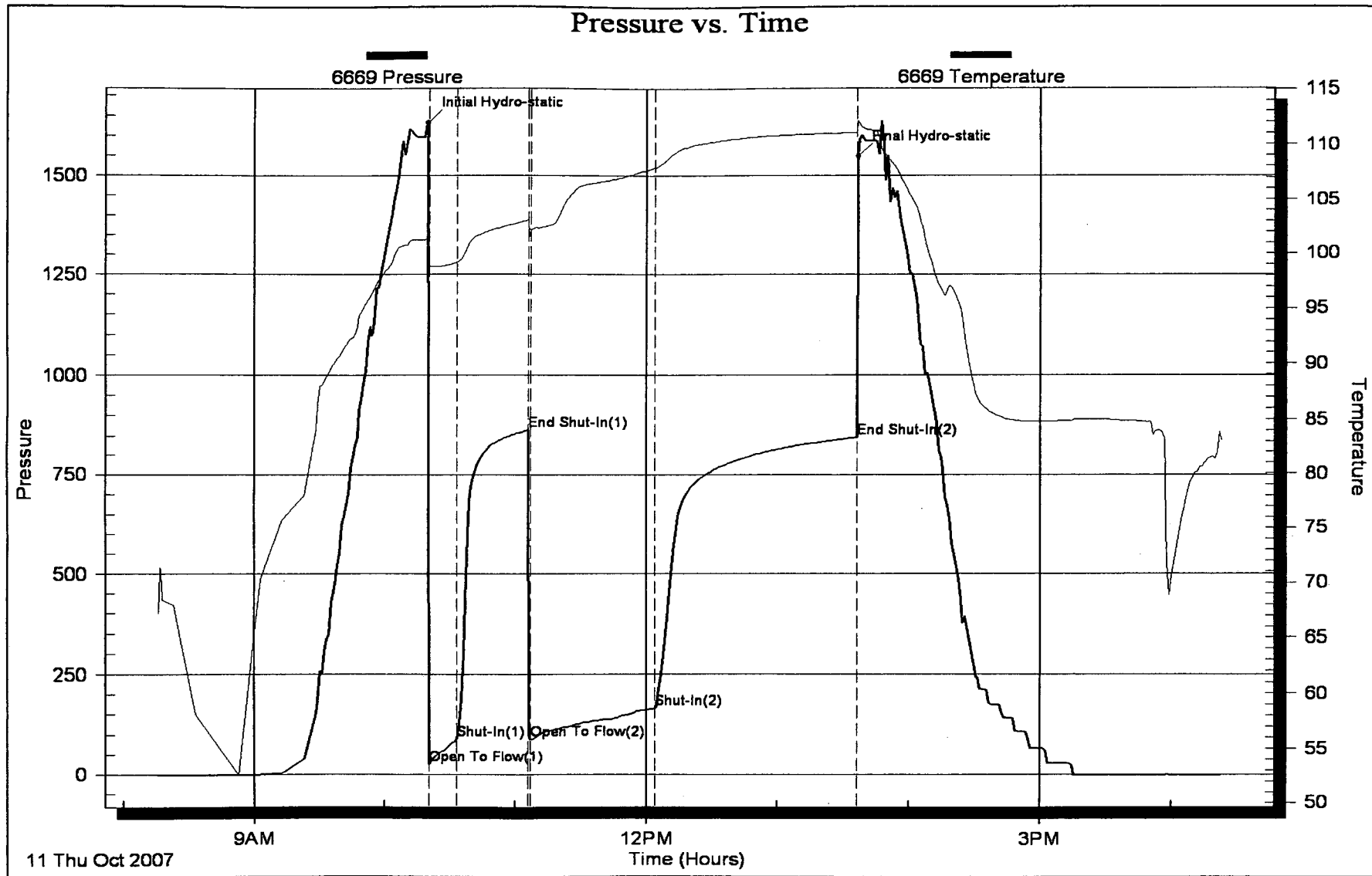
Num Gas Bombs: 0

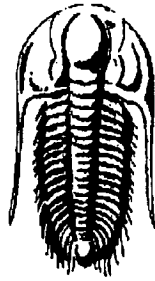
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380  
Wichita, KS 67208

ATTN: Bruce Reed

**22 16S 13W Barton KS**

**Thorne C-3**

Start Date: 2007.10.12 @ 11:07:35

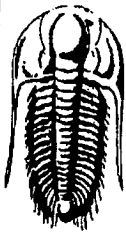
End Date: 2007.10.12 @ 18:35:35

Job Ticket #: 30705                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
PO Box 20380  
Wichita, KS 67208  
ATTN: Bruce Reed

**Thorne C-3**  
**22 16S 13W Barton KS**  
Job Ticket: 30705      **DST#: 7**  
Test Start: 2007.10.12 @ 11:07:35

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:30:35  
Time Test Ended: 18:35:35

Test Type: Conventional Bottom Hole  
Tester: John Schmidt  
Unit No: 31

Interval: **3406.00 ft (KB) To 3431.00 ft (KB) (TVD)**  
Total Depth: 3431.00 ft (KB) (TVD)  
Hole Diameter: 9.88 inches Hole Condition: Fair

Reference Elevations: 1956.00 ft (KB)  
1944.00 ft (CF)  
KB to GR/CF: 12.00 ft

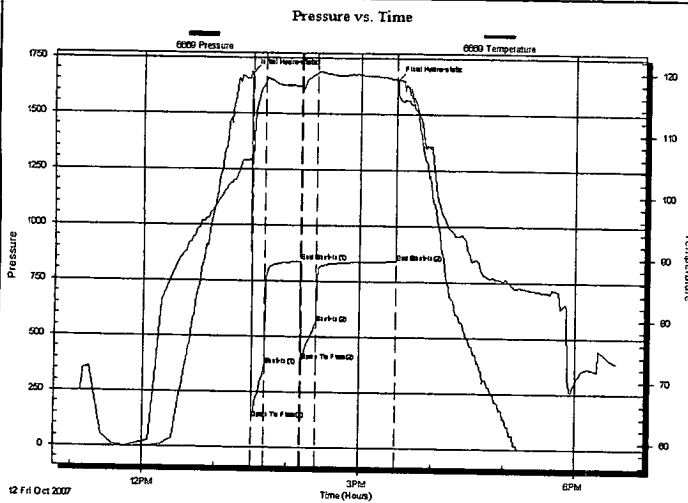
## Serial #: 6669

Inside

Press@RunDepth: 563.25 psig @ 3409.00 ft (KB)  
Start Date: 2007.10.12      End Date: 2007.10.12  
Start Time: 11:07:40      End Time: 18:35:34

Capacity: 7000.00 psig  
Last Calib.: 2007.10.12  
Time On Btm: 2007.10.12 @ 13:29:35  
Time Off Btm: 2007.10.12 @ 15:30:35

TEST COMMENT: IF Strong BOB 1 min.  
ISI Weak Surface  
FF Strong BOB 1 min.  
FSI Weak Surface



## PRESSURE SUMMARY

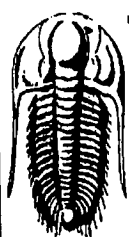
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.35	105.63	Initial Hydro-static
1	126.23	104.96	Open To Flow (1)
12	367.06	118.34	Shut-In (1)
42	838.26	117.68	End Shut-In (1)
42	391.34	117.08	Open To Flow (2)
54	563.25	119.77	Shut-In (2)
120	839.43	119.03	End Shut-In (2)
121	1650.47	117.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	SW	2.88
300.00	GOCW 5%G 20%O 75%W	3.25
300.00	GMOCW 5%G 15%M 20%O 60%W	3.25
300.00	GOWCM 5%G 20%O 25%W 50%M	3.25
0.00	50 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Berexco

Thorne C-3

PO Box 20380  
Wichita, KS 67208

22 16S 13W Barton KS

ATTN: Bruce Reed

Job Ticket: 30705

DST#: 7

Test Start: 2007.10.12 @ 11:07:35

## Tool Information

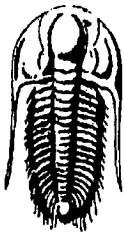
Drill Pipe:	Length: 3234.00 ft	Diameter: 3.34 inches	Volume: 35.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 172.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 35.90 bbl</b>	Tool Chased 10.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3406.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 9.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3378.00	
Shut in Tool	5.00			3383.00	
Hydraulic tool	5.00			3388.00	
Jars	5.00			3393.00	
Safety Joint	3.00			3396.00	
Change Over Sub	1.00			3397.00	
Packer	4.00			3401.00	29.00 Bottom Of Top Packer
Packer	5.00			3406.00	
Stubb	1.00			3407.00	
Change Over Sub	1.00			3408.00	
Perforations	1.00			3409.00	
Recorder	0.00	6669	Inside	3409.00	
Perforations	19.00			3428.00	
Recorder	0.00	13308	Outside	3428.00	
Bullnose	3.00			3431.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco

**Thorne C-3**

PO Box 20380  
Wichita, KS 67208

**22 16S 13W Barton KS**

Job Ticket: 30705

**DST#: 7**

ATTN: Bruce Reed

Test Start: 2007.10.12 @ 11:07:35

## 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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	SW	2.883
300.00	GOCW 5%G 20%O 75%W	3.251
300.00	GMOCW 5%G 15%M 20%O 60%W	3.251
300.00	GOWCM 5%G 20%O 25%W 50%M	3.251
0.00	50 GIP	0.000

Total Length: 1260.00 ft

Total Volume: 12.636 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

