

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

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

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

12/15/12

OPERATOR: License # 5474  
Name: Northern Lights Oil Co., L.C.  
Address 1: P.O. Box 164  
Address 2: \_\_\_\_\_  
City: Andover State: KS Zip: 67002 + \_\_\_\_\_  
Contact Person: Robert Sutherland  
Phone: (316) 305-0493  
CONTRACTOR: License # 4958 **KCC**  
Name: Mallard JV, Inc.  
Wellsite Geologist: Jeff Christian  
Purchaser: NA **DEC 15 2010**  
**CONFIDENTIAL**

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

If Workover/Re-entry: Old Well info as follows:  
Operator: \_\_\_\_\_

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

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled Permit #: \_\_\_\_\_  
 Dual Completion Permit #: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  
 GSW Permit #: \_\_\_\_\_

10-4-10      10/10/10      10/11/10  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 137-20529-0000  
Spot Description: 1800 South, 330 West, from NE Corner  
S2\_NE\_SE\_NE Sec. 36 Twp. 5 S. R. 24  East  West  
1,800 Feet from  North /  South Line of Section  
330 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Norton  
Lease Name: Judy Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2353 Kelly Bushing: 2358  
Total Depth: 3750 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 218 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 1000 ppm Fluid volume: 2500 bbls  
Dewatering method used: Evaporate and backfill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**RECEIVED**  
**DEC 16 2010**  
**KCC WICHITA**

**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.

**AFFIDAVIT**

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

Signature: [Signature]  
Title: MANAGER Date: 12/15/10

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: 12/15/10 - 12/15/12  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NS Date: 4511

Operator Name: Northern Lights Oil Co., L.C. Lease Name: Judy Well #: 1  
 Sec. 36 Twp. 5 S. R. 24  East  West County: Norton

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <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>Anhydrite</td> <td>1986'</td> <td>+372</td> </tr> <tr> <td>Heebner</td> <td>3509'</td> <td>-1151</td> </tr> <tr> <td>Lansing</td> <td>3550'</td> <td>-1192</td> </tr> </table> <div style="text-align: center; font-weight: bold; font-size: 1.2em;">                     KCC                      DEC 15 2010                      CONFIDENTIAL                 </div>	Name	Top	Datum	Anhydrite	1986'	+372	Heebner	3509'	-1151	Lansing	3550'	-1192
Name	Top	Datum											
Anhydrite	1986'	+372											
Heebner	3509'	-1151											
Lansing	3550'	-1192											

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"	20	218	Class A	150	3%cc 2%gel

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 <i>(Amount and Kind of Material Used)</i>	Depth
		RECEIVED	
		DEC 16 2010	
		KCC WICHITA	

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED CEMENTING CO., LLC. 039023

CONFIDENTIAL

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

SERVICE POINT: OKH of 1st

DATE <u>10-11-10</u>	SEC. <u>36</u>	TWP. <u>55</u>	RANGE <u>34w</u>	CALLED OUT	ON LOCATION <u>4:30pm</u>	JOB START <u>7:00pm</u>	JOB FINISH <u>7:30pm</u>
LEASE <u>Sudry</u>	WELL # <u>41</u>	LOCATION <u>Kenoin 1E-2S-12E</u>	COUNTY <u>Wichita</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Mallard Dale  
 TYPE OF JOB Surface  
 HOLE SIZE 12" 1/2 T.D. 218'  
 CASING SIZE 8" 3/4 20' DEPTH 218'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 13.2 BBL

OWNER  
 CEMENT  
 AMOUNT ORDERED 150 SKS Com  
39000 29000

**EQUIPMENT**  
 PUMP TRUCK CEMENTER Fuzz  
 # 431 HELPER Billy  
 BULK TRUCK  
 # 3944 DRIVER Darren  
 BULK TRUCK  
 # DRIVER

COMMON	<u>150</u>	@	<u>13.50</u>	<u>2025.00</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20.00</u>	<u>60.00</u>
CHLORIDE	<u>5</u>	@	<u>51.30</u>	<u>257.50</u>
ASC		@		
HANDLING	<u>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>105.50</u>	@	<u>1.00</u>	<u>947.50</u>
				TOTAL <u>3646.50</u>

**REMARKS:**  
ceement & d. calculate  
Approx 5 BBLs  
Job complete @ 7:15 pm  
Thanks Fuzz & crew

**SERVICE**  
 DEPTH OF JOB 218  
 PUMP TRUCK CHARGE 991.00  
 EXTRA FOOTAGE @  
 MILEAGE 60 @ 7.00 420.00  
 MANIFOLD @  
 @  
 @  
 TOTAL 1411.00

CHARGE TO: Northtown Heights  
 STREET  
 CITY STATE ZIP

**PLUG & FLOAT EQUIPMENT**  
 @  
 @  
 @  
 @  
 @  
 TOTAL

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

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

PRINTED NAME Lyfe Tuergensen  
 SIGNATURE Lyfe Tuergensen

RECEIVED  
 FEB 17 2011  
 KCC WICHITA



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

CONFIDENTIAL  
NO. 38415

12/09

Well Name & No. Judy #1 Test No. 3 Date 10-09-10  
 Company Northern Lights Co. Elevation 2358 KB 2353 GL  
 Address P.O. Box 164, Andover, Ks. 67002  
 Co. Rep / Geo. Jeff Christian Rig Mallard  
 Location: Sec. 36 Twp. 5S Rge. 24W Co. Norton State Ks.

Interval Tested 3586 3626 Zone Tested LRC - D, E, F  
 Anchor Length 40 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.0  
 Top Packer Depth 3581 Drill Collars Run 243 Vis 48  
 Bottom Packer Depth 3586 Wt. Pipe Run -0- WL 7.0  
 Total Depth 3626 Chlorides 500 ppm System LCM 1#

Blow Description IF: weak blow built to 3in. over 5 mins started to died to 2 in. over 30.  
ISI: No blow back over 45 mins

FF: Weak blow surface over 30 mins

FSI: No blow back over 45 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>		<u>100</u>		
<u>62</u>	<u>OCWM</u>	<u>5</u>	<u>20</u>	<u>75</u>	
<u>62</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>243</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud

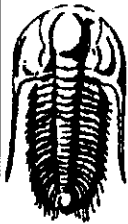
Rec Total 387 BHT 108.44 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1822  Test 1125 T-On Location 5:45  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 5:55  
 (C) First Final Flow 156  Safety Joint \_\_\_\_\_ T-Open 7:34  
 (D) Initial Shut-In 1193  Circ Sub \_\_\_\_\_ T-Pulled 10:15  
 (E) Second Initial Flow 162  Hourly Standby \_\_\_\_\_ T-Out 12:11  
 (F) Second Final Flow 287  Mileage 60.2 = 120 x 1.25 = Comments \_\_\_\_\_  
 (G) Final Shut-In 1152  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1786  Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chuck Perry

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

**CONFIDENTIAL**

Northern Lights

Judy #1

P.O. Box 164  
Andover, Ks.  
67002  
ATTN: Jeff Christian

Sec 36 Twp 5s Rge24w

Job Ticket: 38415      DST#: 3

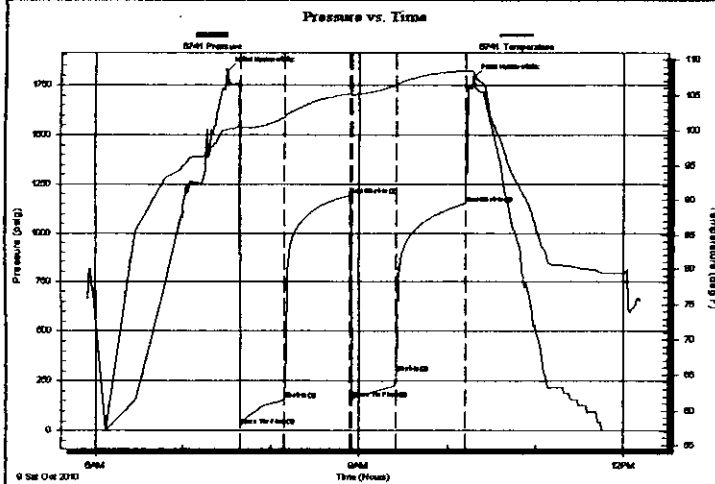
Test Start: 2010.10.09 @ 05:55:00

**GENERAL INFORMATION:**

Formation: LKC-D,E,F  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:39:30  
Time Test Ended: 12:11:30  
Interval: 3586.00 ft (KB) To 3626.00 ft (KB) (TVD)  
Total Depth: 3626.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Kreuzer Jr.  
Unit No: 36  
Reference Elevations: 2358.00 ft (KB)  
2353.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6741**      **Inside**  
Press@RunDepth: 286.79 psig @ 3587.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.10.09      End Date: 2010.10.09      Last Calib.: 2010.10.09  
Start Time: 05:55:00      End Time: 12:11:30      Time On Btm: 2010.10.09 @ 07:30:30  
Time Off Btm: 2010.10.09 @ 10:17:30

**TEST COMMENT:** IF: Weak blow built to 3 in. over 5 mins. died back to 2 in. over 30 mins.  
IS: No blow back over 45 mins.  
FF: Weak surface blow over 30 mins  
FSI: No blow back over 45 mins.



**PRESSURE SUMMARY**

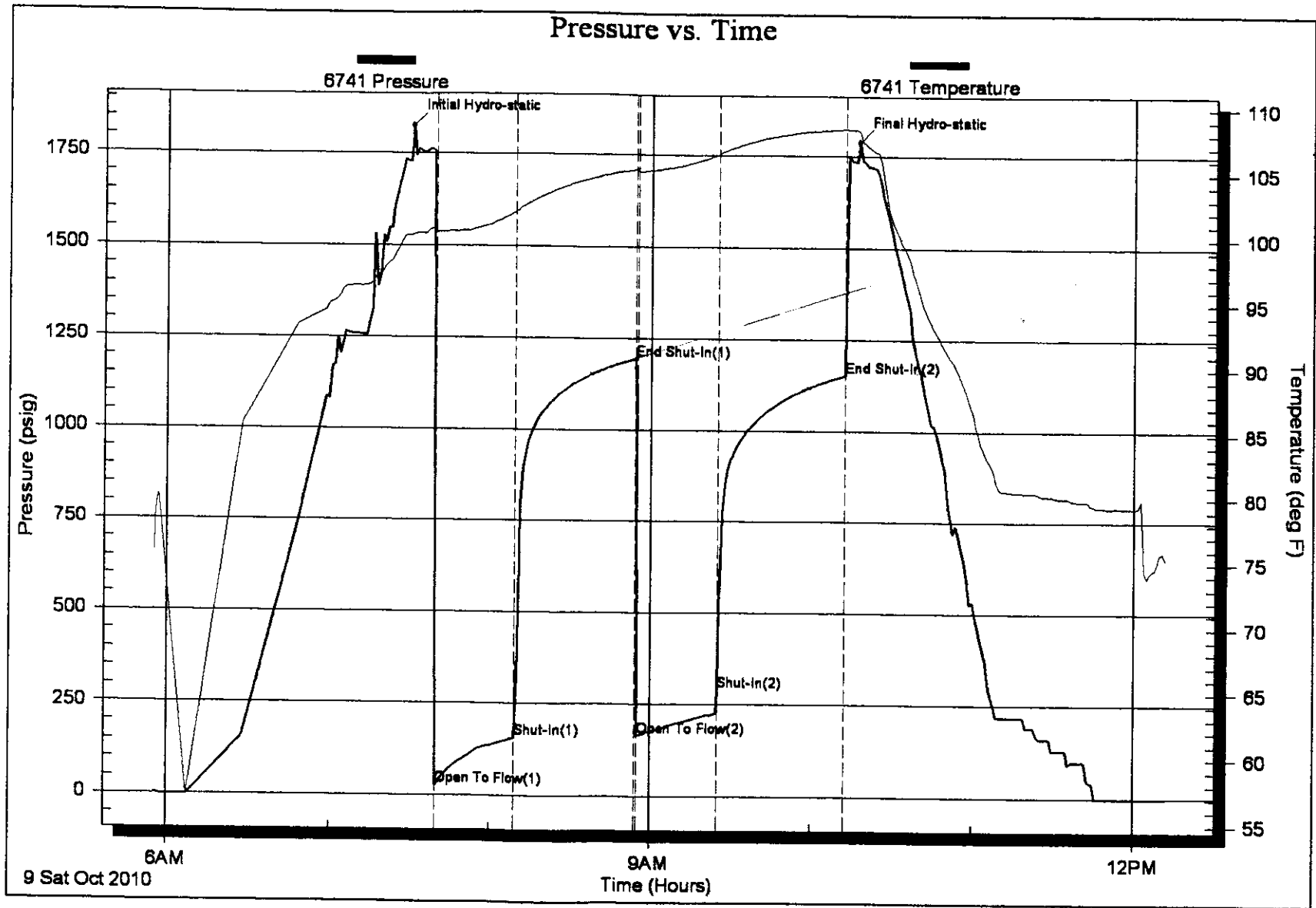
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.34	100.13	Initial Hydro-static
9	25.19	100.34	Open To Flow (1)
39	155.80	101.91	Shut-In(1)
84	1193.40	105.23	End Shut-In(1)
85	161.97	105.00	Open To Flow (2)
115	286.79	106.44	Shut-In(2)
162	1151.62	108.44	End Shut-In(2)
167	1786.33	108.21	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
243.00	mcw -10% m90%w	1.20
62.00	mcw -40% m60%w	0.87
62.00	ocw m-5% o20%w 75%m	0.87
20.00	o-100%o	0.28

**Gas Rates**

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





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 38416

12/09

Well Name & No. Judy #1 Test No. 4 Date 10-09-10  
 Company Northern Lights Co. Elevation 2358 KB 2353 GL  
 Address P.O. Box 164, Andover Ks. 67002  
 Co. Rep / Geo. Jeff Christian Rig Mullard  
 Location: Sec. 36 Twp. 5S Rge. 24W Co. Norton State Ks.

Interval Tested 3651 3676 Zone Tested LKC-H  
 Anchor Length 25 Drill Pipe Run 3419 Mud Wt. 9.0  
 Top Packer Depth 3646 Drill Collars Run 243 Vis 61  
 Bottom Packer Depth 3651 Wt. Pipe Run -0- WL 10.0  
 Total Depth 3676 Chlorides 500 ppm System LCM 1#

Blow Description IF: Weak surface, Died in 10 mins.  
ISF: No blow back over 30mins  
FF: No blow over 30mins  
FST: No blow back over 30mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1868  Test 1125 T-On Location 20:03  
 (B) First Initial Flow 11  Jars \_\_\_\_\_ T-Started 20:25  
 (C) First Final Flow 15  Safety Joint \_\_\_\_\_ T-Open \_\_\_\_\_  
 (D) Initial Shut-In 822  Circ Sub \_\_\_\_\_ T-Pulled 00:10  
 (E) Second Initial Flow 15  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 20  Mileage 60.2 x 1.25 Comments **RECEIVED**  
 (G) Final Shut-In 720  Sampler \_\_\_\_\_ **FEB 17 2011**  
 (H) Final Hydrostatic 1878  Straddle \_\_\_\_\_ **KCC WICHITA**

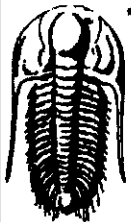
Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total \_\_\_\_\_

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





**TRIOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Northern Lights

**Judy #1**

P.O. Box 164  
Andover, Ks.  
67002  
ATTN: Jeff Christian

**Sec 36 Twp 5s Rge24w**

Job Ticket: 38416      DST#: 4  
Test Start: 2010.10.09 @ 20:30:00

## GENERAL INFORMATION:

Formation: **LKC-H**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 22:14:00  
Time Test Ended: 01:52:30

Test Type: **Conventional Bottom Hole**  
Tester: **Chuck Kreuzer Jr.**  
Unit No: **36**

Interval: **3651.00 ft (KB) To 3676.00 ft (KB) (TVD)**  
Total Depth: **3676.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2358.00 ft (KB)**  
**2353.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

## Serial #: 6752

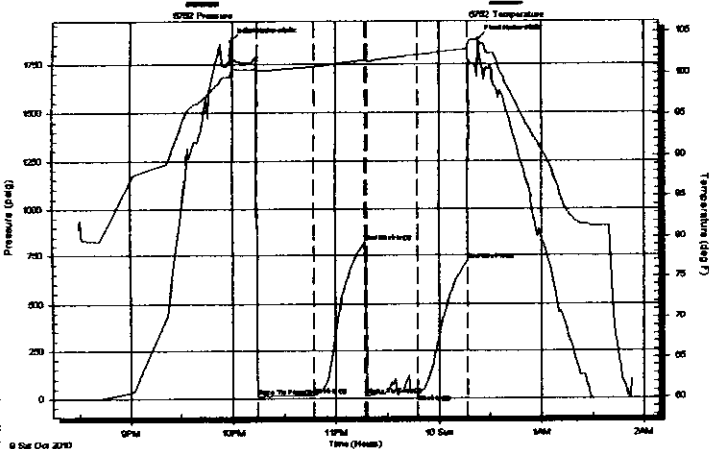
**Inside**

Press@RunDepth: **20.49 psig @ 3652.00 ft (KB)**  
Start Date: **2010.10.09** End Date: **2010.10.10**  
Start Time: **20:30:00** End Time: **01:52:30**

Capacity: **8000.00 psig**  
Last Calib.: **2010.10.10**  
Time On Btm: **2010.10.09 @ 21:59:00**  
Time Off Btm: **2010.10.10 @ 00:23:00**

TEST COMMENT: IF: Weak surface blow, Died in 10 mins.  
IS: No blow back over 30 mins.  
FF: No blow over 30 mins.  
FSI: No blow back over 30 mins.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.00	99.61	Initial Hydro-static
15	11.30	100.39	Open To Flow (1)
49	14.77	100.81	Shut-in(1)
78	822.33	101.61	End Shut-in(1)
79	15.40	101.49	Open To Flow (2)
109	20.49	102.25	Shut-in(2)
138	720.16	102.93	End Shut-in(2)
144	1877.82	103.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

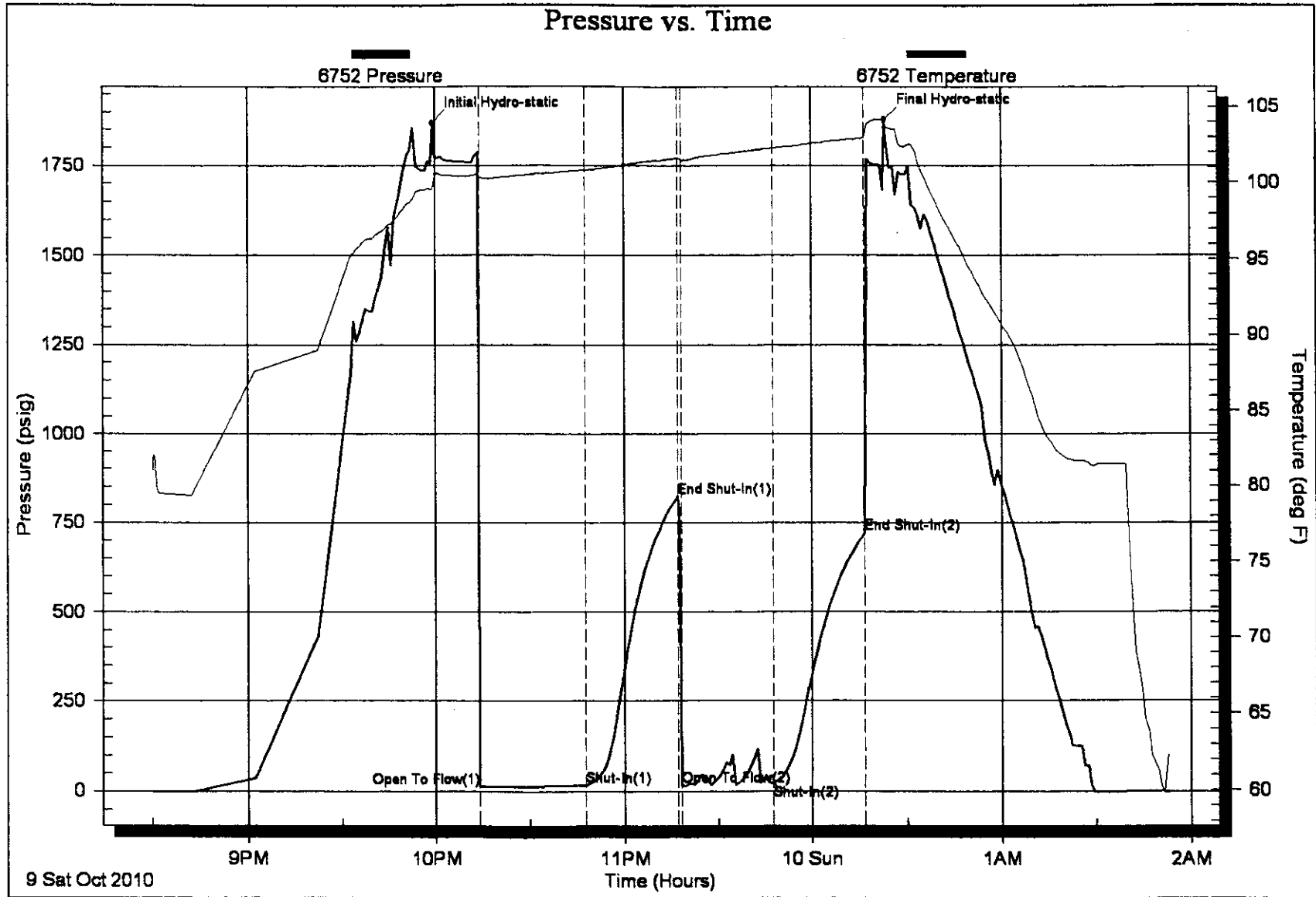
## Gas Rates

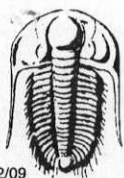
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

RECEIVED

FEB 17 2011

KCC WICHITA





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 38417

12/09

Well Name & No. Judy # 1 Test No. 5 Date 10-10-10  
 Company Northern Lights oil Elevation 2358 KB 2353 GL  
 Address P.O. Box 164, Andover Ks. 67002  
 Co. Rep / Geo. Jeff Christian Rig millard  
 Location: Sec. 36 Twp. 5 S Rge. 24 W Co. Norton State KS

Interval Tested 3681 3725 Zone Tested LKC - JK  
 Anchor Length 44 Drill Pipe Run 3469 Mud Wt. 9.0  
 Top Packer Depth 3676 Drill Collars Run 243 Vis 61  
 Bottom Packer Depth 3681 Wt. Pipe Run 0 WL 10.0  
 Total Depth 3725 Chlorides 500 ppm System LCM 1A

Blow Description IF: weak surface blow, died in 9 mins -  
IST: No blow back over 30 mins  
FF: No blow over 30 mins  
ISI: No blow back over 30 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>mud 0.1 spec</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

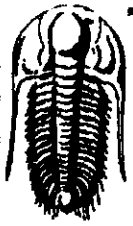
Rec Total 3 BHT 103 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1843  Test 1125 T-On Location 00:00  
 (B) First Initial Flow 13  Jars T-Started 10:18  
 (C) First Final Flow 15  Safety Joint T-Open \_\_\_\_\_  
 (D) Initial Shut-In 34  Circ Sub T-Pulled 13:48  
 (E) Second Initial Flow 15  Hourly Standby T-Out \_\_\_\_\_  
 (F) Second Final Flow 15  Mileage 60.2 = 130 x 1.25 = Comments \_\_\_\_\_  
 (G) Final Shut-In 31  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1942  Straddle \_\_\_\_\_

Shale Packer  Ruined Shale Packer  
 Extra Packer  Ruined Packer  
 Extra Recorder  Extra Copies  
 Day Standby Sub Total \_\_\_\_\_  
 Accessibility Total \_\_\_\_\_  
 Sub Total \_\_\_\_\_

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Northern Lights

Judy #1

P.O. Box 164  
 Andover, Ks.  
 67002  
 ATTN: Jeff Christian

Sec 36 Twp 5s Rge24w

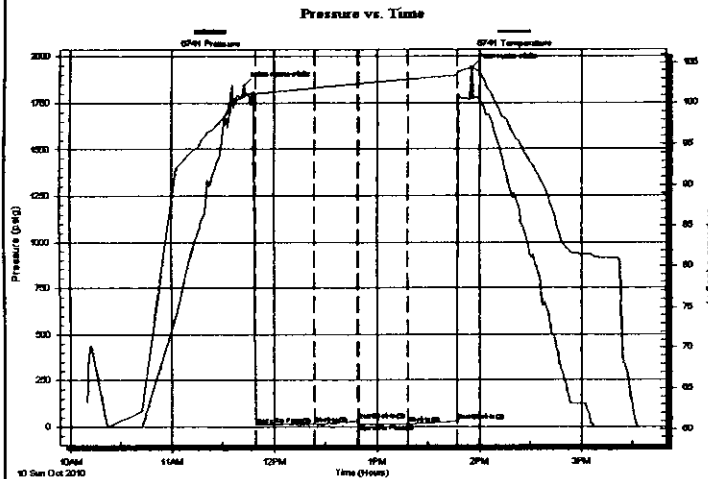
Job Ticket: 38417      DST#: 5  
 Test Start: 2010.10.10 @ 10:10:00

## GENERAL INFORMATION:

Formation: **LKC\_J**  
 Deviated: **No Whipstock:**                      ft (KB)  
 Time Tool Opened: 11:49:30  
 Time Test Ended: 15:33:30  
 Interval: **3681.00 ft (KB) To 3725.00 ft (KB) (TVD)**  
 Total Depth: **3725.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Chuck Kreutzer Jr.**  
 Unit No: **36**  
 Reference Elevations: **2358.00 ft (KB)**  
    **2353.00 ft (CF)**  
    **KB to GR/CF: 5.00 ft**

**Serial #: 6741**      **Inside**  
 Press@RunDepth: **15.45 psig @ 3684.60 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.10.10**      End Date: **2010.10.10**      Last Calib.: **2010.10.10**  
 Start Time: **10:10:00**      End Time: **15:33:30**      Time On Btm: **2010.10.10 @ 11:42:30**  
    **Time Off Btm: 2010.10.10 @ 13:55:30**

**TEST COMMENT:** IF: Weak blow, Died in 9 mins.  
 IS: No blow back over 30 mins.  
 FF: No blow over 30 mins.  
 FSI No blow back over 30 mins.



## PRESSURE SUMMARY

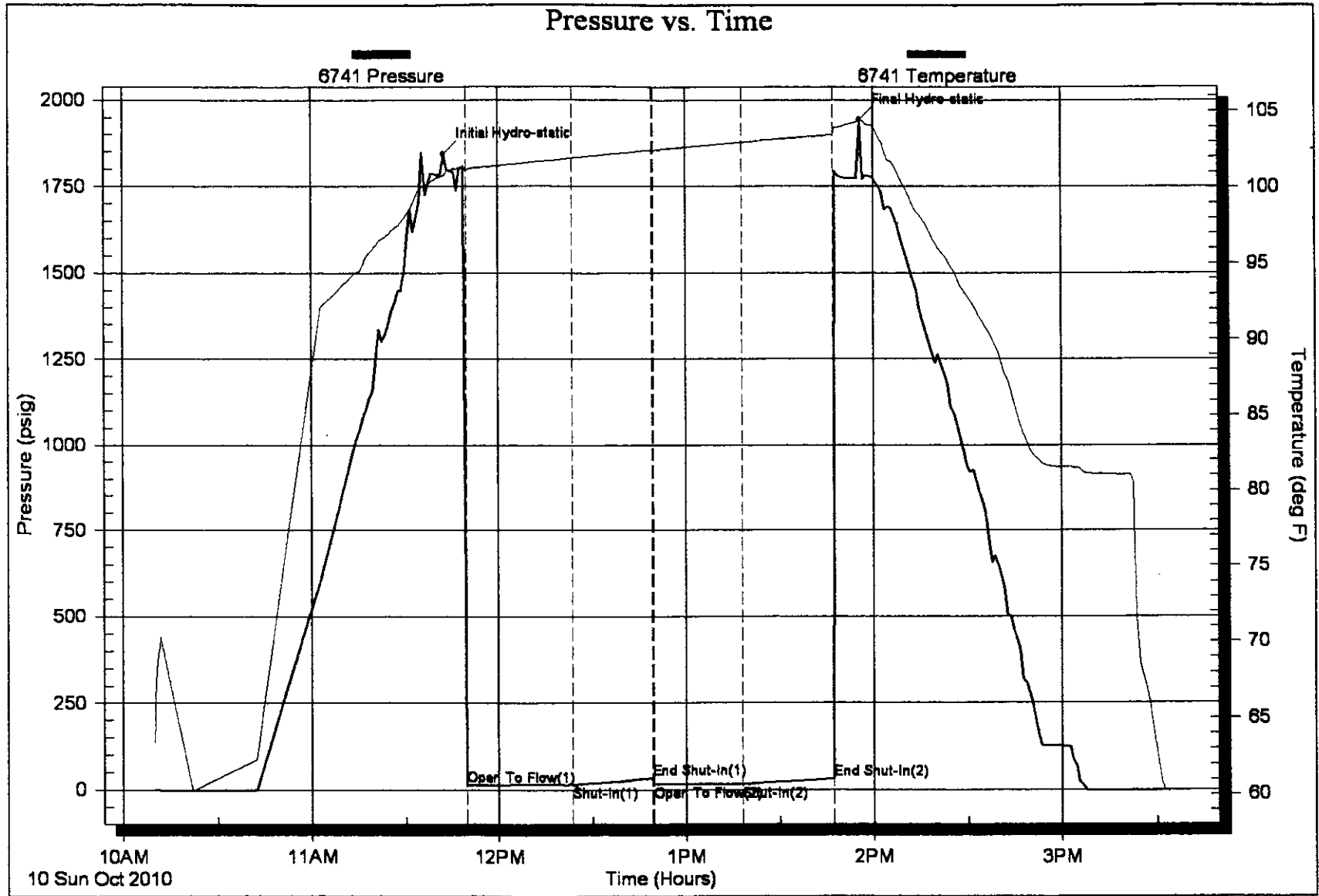
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.23	100.75	Initial Hydro-static
7	13.36	101.12	Open To Flow (1)
41	15.13	101.90	Shut-In(1)
67	33.85	102.42	End Shut-In(1)
67	14.95	102.42	Open To Flow (2)
96	15.45	102.95	Shut-In(2)
125	30.75	103.44	End Shut-In(2)
133	1941.90	104.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud w ith oil specs	0.01

## Gas Rates

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





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## CONFIDENTIAL

## Test Ticket

NO. 38414

12/09

Well Name & No. Judy #1 Test No. 2 Date 10-08-10  
 Company Northern Lights Co. Elevation 2358 KB 2353 GL  
 Address P.O. Box 164, Andover, Ks. 67002  
 Co. Rep / Geo. Jeff Christian Rig Mallard  
 Location: Sec. 36 Twp. 5S Rge. 24w Co. Norton State Ks.

Interval Tested 3541 3562 Zone Tested LKC-A  
 Anchor Length 21 Drill Pipe Run 3295 Mud Wt. 9.0  
 Top Packer Depth 3536 Drill Collars Run 243 Vis 48  
 Bottom Packer Depth 3541 Wt. Pipe Run 0 WL 7.0  
 Total Depth 3562 Chlorides 500 ppm System LCM 1H

Blow Description FF: Weak surface blow, Died in 24 mins.  
ISI: No blow back over 30 mins.  
FF: No blow over 30 mins.  
FSI: No blow back over 30 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud with oil specs</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

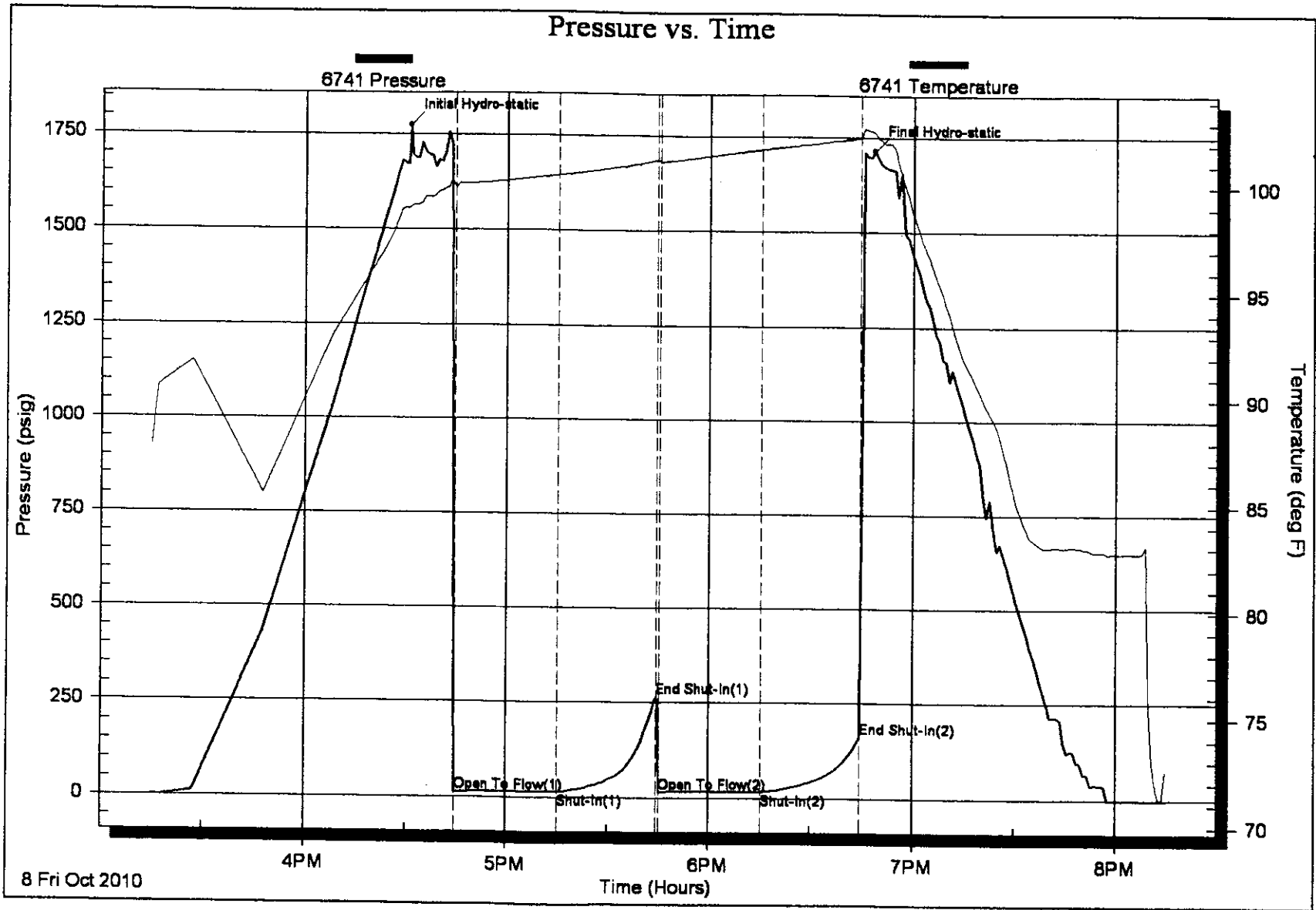
Rec Total 20 BHT 102 Gravity 11.25 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1773</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>15:00</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars	T-Started <u>19:15</u>
(C) First Final Flow <u>14</u>	<input type="checkbox"/> Safety Joint	T-Open <u>18:45</u>
(D) Initial Shut-In <u>265</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:45</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:14</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>60.2 = 120 x 1.25"</u>	Comments
(G) Final Shut-In <u>161</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1714</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total
	Sub Total	

Approved By \_\_\_\_\_ Our Representative Jeff Christian

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

CONFIDENTIAL

## Test Ticket

NO. 38413

Well Name & No. JW4 #1 Test No. 1 Date 10-8-10  
 Company Northern Lights Co. Elevation 2358 KB 2353 GL  
 Address P.O. Box 164, Andover, Ks. 67002  
 Co. Rep/Geo. Jeff Christian Rig Mullard  
 Location: Sec. 36 Twp. 5s Rge. 24w Co. Norton State Ks

Interval Tested 3506 3542 Zone Tested Toronto  
 Anchor Length 36 Drill Pipe Run 3262 Mud Wt. 9.0  
 Top Packer Depth 3501 Drill Collars Run 243 Vis 48  
 Bottom Packer Depth 3506 Wt. Pipe Run 0 WL 7.0  
 Total Depth 3542 Chlorides 500 ppm System LCM 1 #

Blow Description IF: Weak surface blow, built to 1/4 in. over 30 mins.  
ISI: No blow back over 45 mins.  
FF: No blow over 30 mins.  
FSI: No blow back over 45 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud with oil specs</u>				

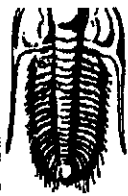
Rec Total 20 BHT 103 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1750</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>1:20</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars _____	T-Started <u>2:40</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>4:52</u>
(D) Initial Shut-In <u>1131</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:20</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:08</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>60x2 = 120x1.25</u>	Comments _____
(G) Final Shut-In <u>1000</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1731</u>	<input type="checkbox"/> Straddle _____	
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility _____	Total _____
	Sub Total _____	

Approved By \_\_\_\_\_ Our Representative Shelley

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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**FEB 17 2011**  
**KCC WICHITA**



**TRILOBITE TESTING, INC.**

Northern Lights

**CONFIDENTIAL**

Judy #1

P.O. Box 164  
Andover, Ks.  
67002  
ATTN: Jeff Christian

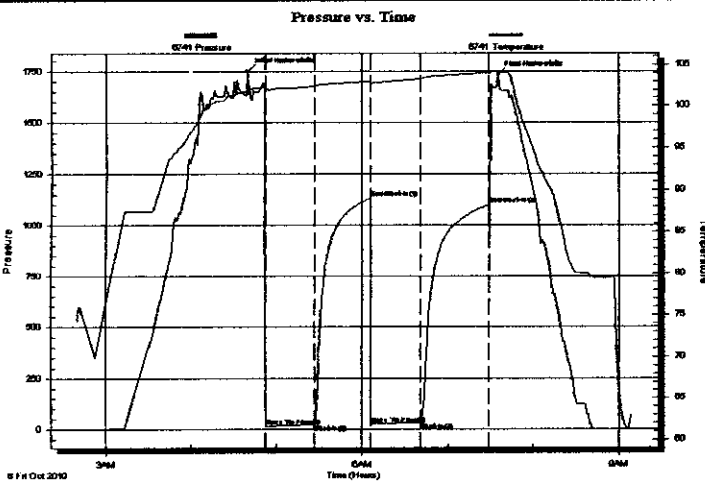
Sec 36 Twp 5s Rge24w  
Job Ticket: 38413 DST#: 1  
Test Start: 2010.10.08 @ 02:40:00

**GENERAL INFORMATION:**

Formation: **Toronto**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 04:52:30  
 Time Test Ended: 09:08:30  
 Interval: **3506.00 ft (KB) To 3542.00 ft (KB) (TVD)**  
 Total Depth: **3542.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Chuck Kreutzer Jr.**  
 Unit No: **36**  
 Reference Elevations: **2358.00 ft (KB)**  
**2353.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 6741 Inside**  
 Press@RunDepth: **34.12 psig @ 3507.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.10.08** End Date: **2010.10.08** Last Calib.: **2010.10.08**  
 Start Time: **02:40:01** End Time: **09:08:30** Time On Btm: **2010.10.08 @ 04:40:00**  
 Time Off Btm: **2010.10.08 @ 07:35:00**

**TEST COMMENT:** IF: Weak surface blow, Built to 1/4 in. over 30 mins.  
 IS: No blow back over 45 mins.  
 FF: No blow over 30 mins.  
 FSI: No blow back over 45 mins.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.43	101.78	Initial Hydro-static
13	13.32	101.96	Open To Flow (1)
47	22.32	102.38	Shut-In(1)
86	1131.38	102.99	End Shut-In(1)
86	24.90	102.63	Open To Flow (2)
121	34.12	103.28	Shut-In(2)
169	1099.60	103.97	End Shut-In(2)
175	1730.75	104.10	Final Hydro-static

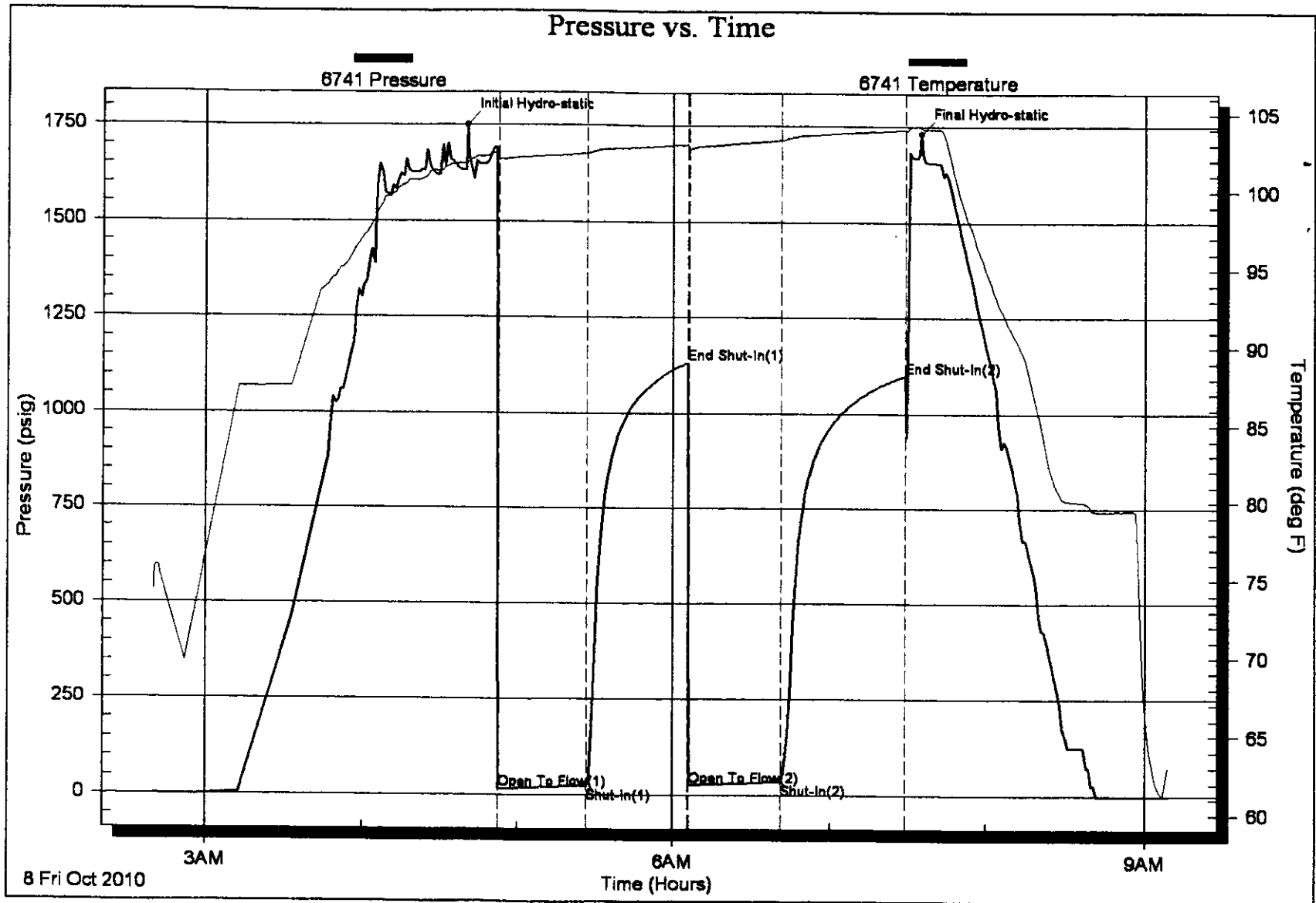
**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	mud with oil specs	0.10

**Gas Rates**

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

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