

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33704
Name: A+A DISCOVERY, LLC
Address 1: 748 S. 4th Ave
Address 2: _____
City: HILL CITY State: KS Zip: 67642+
Contact Person: Darrel Anderson
Phone: (785) 567-6144
CONTRACTOR: License # 33704
Name: A+A DISCOVERY, LLC
Wellsite Geologist: Scott Alberg
Purchaser: N/A
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: N/A
Well Name: _____
Original Comp. Date: 1-13-2010 Original Total Depth: 3225'
 Deepening Re-perf. Conv. to Enhr. Conv. to SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____
1-13-2010 1-22-2010 1-22-2010 (DRY)
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 065-23611-00-00
Spot Description: SCHUCK A-1
E2NE1/4NW Sec. 9 Twp. 6 S. R. 23 East West
330 Feet from North / South Line of Section
1060 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: GRAHAM
Lease Name: SCHUCK Well #: A-1
Field Name: Norham South
Producing Formation: n/a
Elevation: Ground: 2427 Kelly Bushing: 2432
Total Depth: 3815' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 8 5/8" - 262 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 AITIMS
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License 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: Darrel Anderson
Title: Mgt. Member Date: 2/18/2010
Subscribed and sworn to before me this 18th day of February, 2010.
Notary Public: Scott Alberg
Date Commission Expires: January 21, 2012

KCC Office Use ONLY

N Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
RECEIVED
FEB 22 2010

NOTARY PUBLIC
STATE OF KANSAS
RITA A. ANDERSON
NOTARY PUBLIC
STATE OF KANSAS
My App. Exp. 1-21-12

KCC WICHITA

Operator Name: A & A Discovery, LLC Lease Name: SR HUCK Well #: A-1
 Sec. 9 Twp. 6 (S) R. 23 East West County: GRAHAM CO

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 (Attach Additional Sheets) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy) List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>2064</td> <td>+ 368</td> </tr> <tr> <td>B/Anhydrite</td> <td>2097</td> <td>+ 330</td> </tr> <tr> <td>Topsoil</td> <td>3386</td> <td>- 954</td> </tr> <tr> <td>Heebow Shale</td> <td>3582</td> <td>- 1150</td> </tr> <tr> <td>Toronto</td> <td>3606</td> <td>- 1174</td> </tr> <tr> <td>Lansing</td> <td>3625</td> <td>- 1194</td> </tr> <tr> <td>B/K.C.</td> <td>3814</td> <td>- 1382</td> </tr> <tr> <td>R.T.D.</td> <td>3815</td> <td>- 1383</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	2064	+ 368	B/Anhydrite	2097	+ 330	Topsoil	3386	- 954	Heebow Shale	3582	- 1150	Toronto	3606	- 1174	Lansing	3625	- 1194	B/K.C.	3814	- 1382	R.T.D.	3815	- 1383
Name	Top	Datum																										
Anhydrite	2064	+ 368																										
B/Anhydrite	2097	+ 330																										
Topsoil	3386	- 954																										
Heebow Shale	3582	- 1150																										
Toronto	3606	- 1174																										
Lansing	3625	- 1194																										
B/K.C.	3814	- 1382																										
R.T.D.	3815	- 1383																										

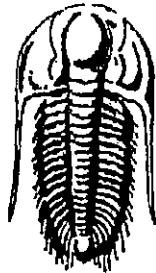
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#	267'	Com/Pos mix	175	60/40 3200/2290

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	N/A	N/A		

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
	N/A		

TUBING RECORD:	Size: N/A	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Entr.		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

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **A&A Discovery LLC.**

748 S. 4 th Ave.
Hill City KS 67642

ATTN: Scott Alberg

9 6S 23W Graham KS

Schuck A #1

Start Date: 2010.01.18 @ 12:20:00

End Date: 2010.01.18 @ 17:23:00

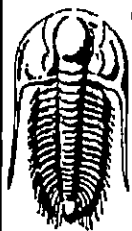
Job Ticket #: 37936 DST #: 1

RECEIVED
FEB 22 2010
KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

A&A Discovery LLC.

Schuck A #1

748 S. 4th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37936

DST#: 1

ATTN: Scott Alberg

Test Start: 2010.01.18 @ 12:20:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:39:00

Time Test Ended: 17:23:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer

Unit No: 36

Interval: 3577.00 ft (KB) To 3616.00 ft (KB) (TVD)

Total Depth: 3616.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2432.00 ft (KB)

2428.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6672 Inside

Press@RunDepth: 18.87 psig @ 3581.00 ft (KB)

Start Date: 2010.01.18

End Date:

2010.01.18

Capacity: 8000.00 psig

Last Calib.: 2010.01.18

Start Time: 12:20:05

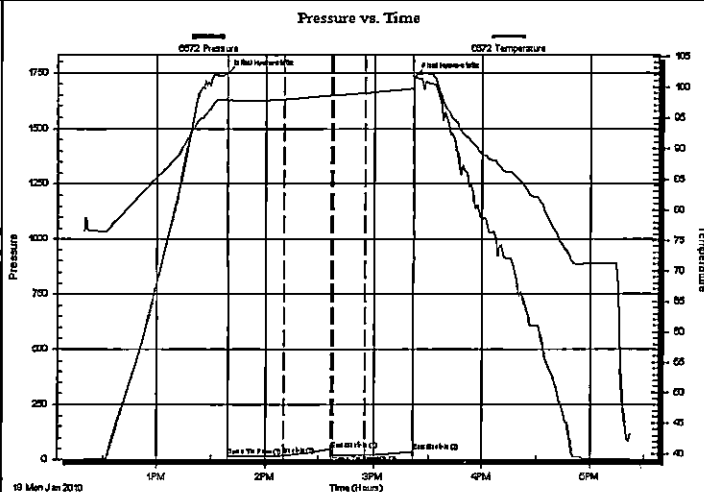
End Time:

17:22:59

Time On Btm: 2010.01.18 @ 13:38:30

Time Off Btm: 2010.01.18 @ 15:22:00

TEST COMMENT: IF: Weak surface blow Died in 20 mins.
 IS: No blow back over 30 mins.
 FF: No blow over 15 mins.
 FS: No blow back in 30 mins.



PRESSURE SUMMARY

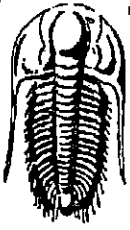
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.42	98.29	Initial Hydro-static
1	17.37	97.69	Open To Flow (1)
32	18.79	97.97	Shut-In(1)
59	48.20	98.66	End Shut-In(1)
60	18.66	98.65	Open To Flow (2)
77	18.87	99.02	Shut-In(2)
103	36.20	99.74	End Shut-In(2)
104	1732.41	100.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil specs	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37936

DST#: 1

ATTN: Scott Alberg

Test Start: 2010.01.18 @ 12:20:00

Tool Information

Drill Pipe:	Length: 3585.00 ft	Diameter: 3.80 inches	Volume: 50.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 50.29 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3577.00 ft			Final 30000.00 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
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut in Tool	5.00			3562.00	
Hydraulic tool	5.00			3567.00	
Packer	5.00			3572.00	20.00 Bottom Of Top Packer
Packer	5.00			3577.00	
Stubb	1.00			3578.00	
Perforations	2.00			3580.00	
Change Over Sub	1.00			3581.00	
Recorder	0.00	6672	Inside	3581.00	
Recorder	0.00	6752	Inside	3581.00	
Blank Spacing	31.00			3612.00	
Change Over Sub	1.00			3613.00	
Bullnose	3.00			3616.00	39.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37936

DST#: 1

ATTN: Scott Alberg

Test Start: 2010.01.18 @ 12:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud with oil specs	0.070

Total Length:

5.00 ft

Total Volume:

0.070 bbl

Num Fluid Samples: 0

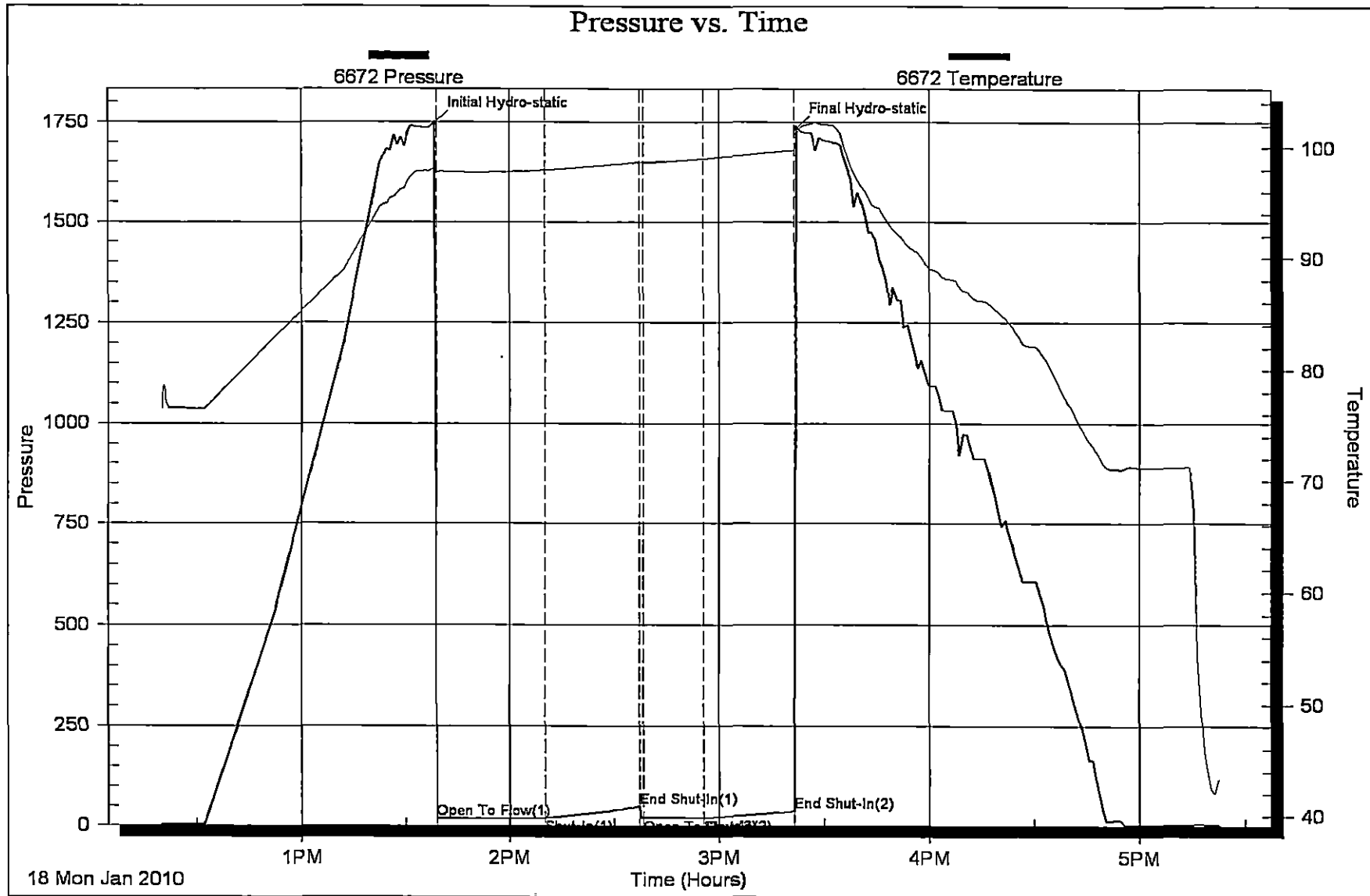
Num Gas Bombs: 0

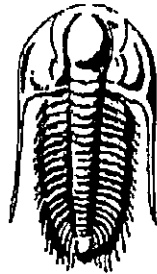
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **A&A Discovery LLC.**

748 S. 4 th Ave.
Hill City KS 67642

ATTN: Scott Alberg

9 6S 23W Graham KS

Schuck A #1

Start Date: 2010.01.19 @ 01:00:00

End Date: 2010.01.19 @ 09:16:00

Job Ticket #: 37937 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

A&A Discovery LLC.

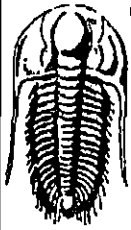
Schuck A #1

9 6S 23W Graham KS

DST # 2

LKC-A

2010.01.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

A&A Discovery LLC.

748 S. 4th Ave.
Hill City KS 67642

ATTN: Scott Alberg

Schuck A #1

9 6S 23W Graham KS

Job Ticket: 37937

DST#: 2

Test Start: 2010.01.19 @ 01:00:00

GENERAL INFORMATION:

Formation: LKC- A

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:55:00

Time Test Ended: 09:16:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer

Unit No: 36

Interval: 3615.00 ft (KB) To 3640.00 ft (KB) (TVD)

Total Depth: 3640.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2432.00 ft (KB)

2428.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6672

Inside

Press@RunDepth: 80.71 psig @ 3616.00 ft (KB)

Start Date: 2010.01.19

End Date:

2010.01.19

Start Time: 01:00:05

End Time:

09:15:59

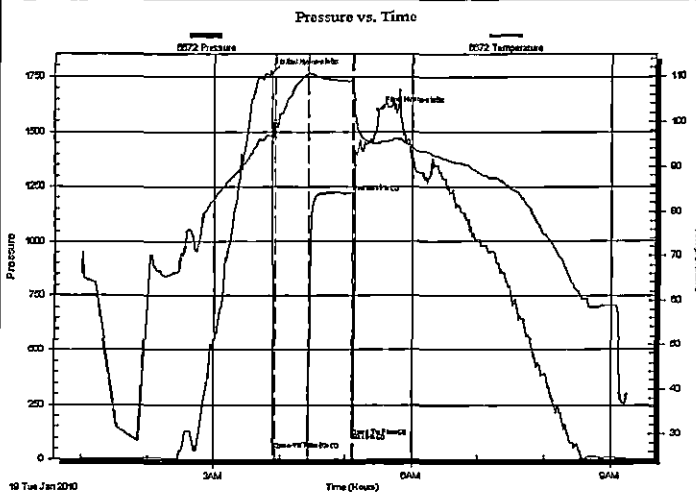
Capacity: 8000.00 psig

Last Calib.: 2010.01.19

Time On Btm: 2010.01.19 @ 03:52:00

Time Off Btm: 2010.01.19 @ 05:29:29

TEST COMMENT: IF: Strong blow B.O.B in 5 mins.
IS: Blow back after 5 mins. Built to 1/4 in. over 45 mins.
FF: Strong blow B.O.B in 2 mins.
FS: Lost mud, Pulled tool.



PRESSURE SUMMARY

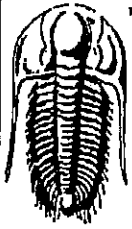
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.14	96.78	Initial Hydro-static
3	43.45	100.89	Open To Flow (1)
34	80.71	110.52	Shut-in(1)
74	1221.93	108.88	End Shut-in(1)
75	105.43	108.16	Open To Flow (2)
76	121.08	108.21	Shut-in(2)
98	1597.35	95.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3100.00	mud	43.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37937

DST#: 2

ATTN: Scott Alberg

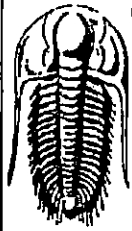
Test Start: 2010.01.19 @ 01:00:00

Tool Information

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 50.71 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3615.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3600.00	
Hydraulic tool	5.00			3605.00	
Packer	5.00			3610.00	20.00 Bottom Of Top Packer
Packer	5.00			3615.00	
Stubb	1.00			3616.00	
Recorder	0.00	6672	Inside	3616.00	
Recorder	0.00	6752	Inside	3616.00	
Perforations	21.00			3637.00	
Bullnose	3.00			3640.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37937

DST#: 2

ATTN: Scott Alberg

Test Start: 2010.01.19 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 89.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3100.00	mud	43.485

Total Length: 3100.00 ft

Total Volume: 43.485 bbl

Num Fluid Samples: 0

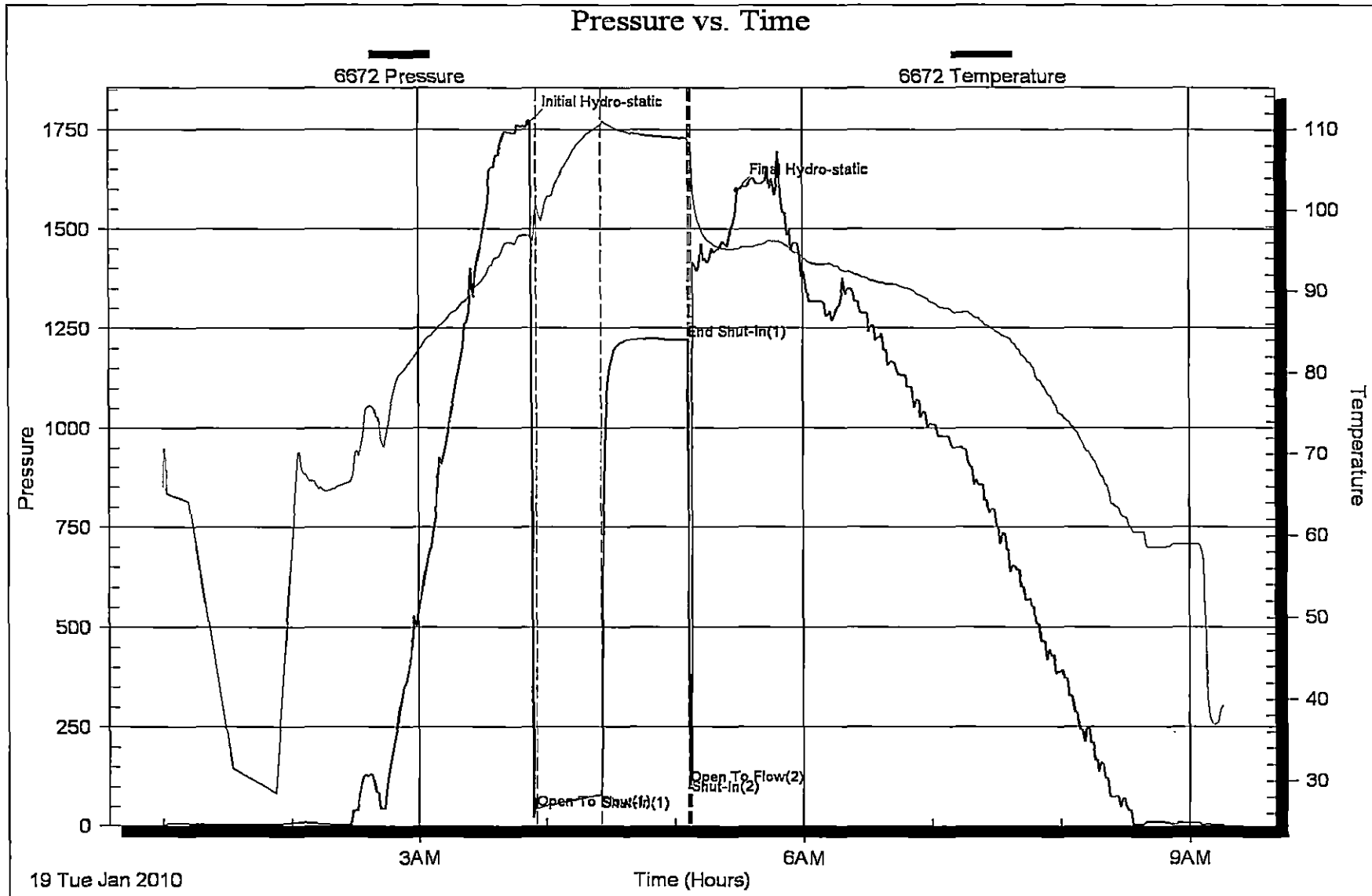
Num Gas Bombs: 0

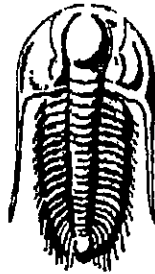
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **A&A Discovery LLC.**

748 S. 4 th Ave.
Hill City KS 67642

ATTN: Scott Alberg

9 6S 23W Graham KS

Schuck A #1

Start Date: 2010.01.19 @ 15:00:00

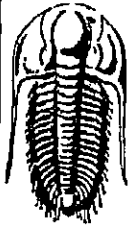
End Date: 2010.01.19 @ 21:55:00

Job Ticket #: 37938 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

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37938

DST#: 3

ATTN: Scott Alberg

Test Start: 2010.01.19 @ 15:00:00

GENERAL INFORMATION:

Formation: LKC-A

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:28:30

Time Test Ended: 21:55:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer

Unit No: 36

Interval: 3568.00 ft (KB) To 3640.00 ft (KB) (TVD)

Total Depth: 3640.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2432.00 ft (KB)

2428.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6672 Inside

Press@RunDepth: 854.37 psig @ 3575.00 ft (KB)

Start Date: 2010.01.19 End Date: 2010.01.19

Start Time: 15:00:05 End Time: 21:54:59

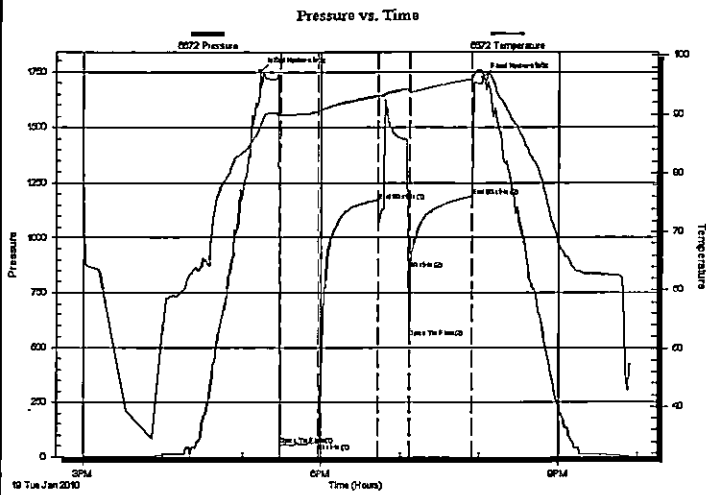
Capacity: 8000.00 psig

Last Calib.: 2010.01.19

Time On Btm: 2010.01.19 @ 17:13:00

Time Off Btm: 2010.01.19 @ 20:03:00

TEST COMMENT: FF: Fair blow, built to 7 in. over 30 mins.
IS: No blow back over 45 mins.
FF: Weak blow built to 1 in.
FSI: No blow back over 30 mins.



PRESSURE SUMMARY

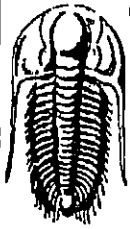
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.48	87.80	Initial Hydro-static
16	54.43	89.72	Open To Flow (1)
45	64.55	90.50	Shut-In(1)
90	1169.23	93.14	End Shut-In(1)
114	546.64	93.89	Open To Flow (2)
115	854.37	93.77	Shut-In(2)
162	1188.59	95.95	End Shut-In(2)
170	1726.71	96.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
112.00	mud	1.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37938

DST#: 3

ATTN: Scott Alberg

Test Start: 2010.01.19 @ 15:00:00

Tool Information

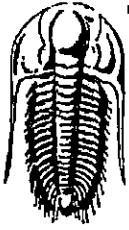
Drill Pipe:	Length: 3491.00 ft	Diameter: 3.80 inches	Volume: 48.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 49.27 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3568.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3553.00	
Hydraulic tool	5.00			3558.00	
Packer	5.00			3563.00	20.00 Bottom Of Top Packer
Packer	5.00			3568.00	
Stubb	1.00			3569.00	
Perforations	5.00			3574.00	
Change Over Sub	1.00			3575.00	
Recorder	0.00	6672	Inside	3575.00	
Recorder	0.00	6752	Inside	3575.00	
Blank Spacing	61.00			3636.00	
Change Over Sub	1.00			3637.00	
Bullnose	3.00			3640.00	72.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37938

DST#: 3

ATTN: Scott Alberg

Test Start: 2010.01.19 @ 15:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
112.00	mud	1.024

Total Length: 112.00 ft

Total Volume: 1.024 bbl

Num Fluid Samples: 0

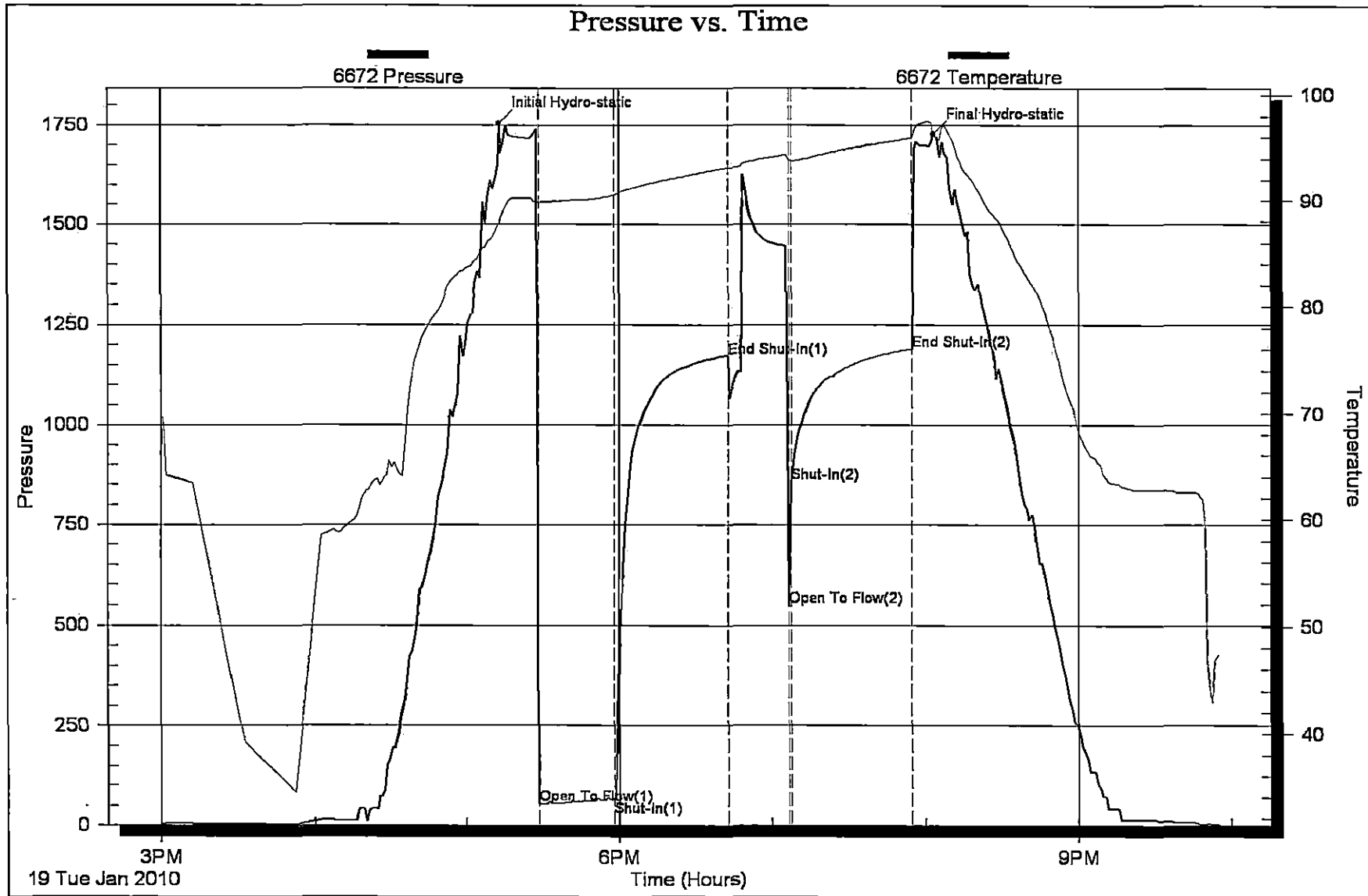
Num Gas Bombs: 0

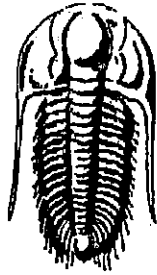
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **A&A Discovery LLC.**

748 S. 4 th Ave.
Hill City KS 67642

ATTN: Scott Alberg

9 6S 23W Graham KS

Schuck A #1

Start Date: 2010.01.20 @ 11:45:00

End Date: 2010.01.20 @ 17:56:00

Job Ticket #: 37939 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

A&A Discovery LLC.

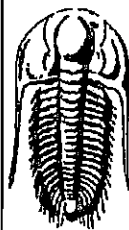
Schuck A #1

9 6S 23W Graham KS

DST # 4

LKC-E

2010.01.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

A&A Discovery LLC.

Schuck A #1

748 S. 4th Ave.
Hill City KS 67642

9 6S 23W Graham KS

ATTN: Scott Alberg

Job Ticket: 37939

DST#: 4

Test Start: 2010.01.20 @ 11:45:00

GENERAL INFORMATION:

Formation: LKC-E

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:30

Time Test Ended: 17:56:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer

Unit No: 36

Interval: 3679.00 ft (KB) To 3710.00 ft (KB) (TVD)

Total Depth: 3710.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2432.00 ft (KB)

2428.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6672

Inside

Press@RunDepth: 69.46 psig @ 3680.00 ft (KB)

Start Date: 2010.01.20

End Date:

2010.01.20

Capacity: 8000.00 psig

Last Calib.:

2010.01.20

Start Time: 11:45:05

End Time:

17:55:59

Time On Btm: 2010.01.20 @ 13:46:00

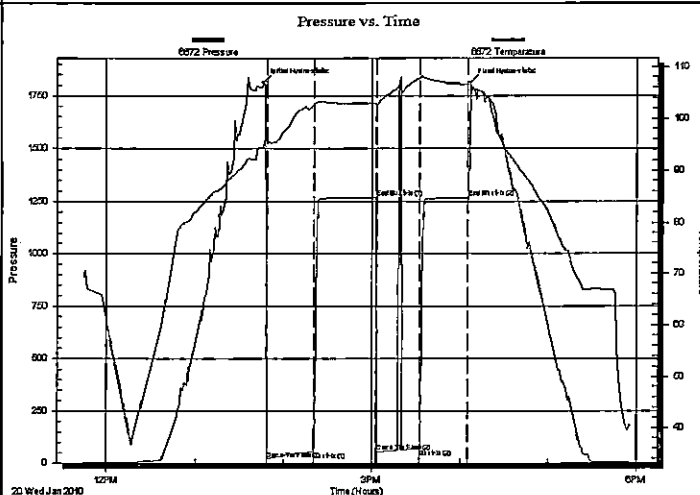
Time Off Btm: 2010.01.20 @ 16:06:30

TEST COMMENT: IF: Weak blow built to 4 in. over 30 mins.

ISI: No blow back over 45 mins.

FF: No blow, Flushed tool.

FST: No blow back over 30 mins.



PRESSURE SUMMARY

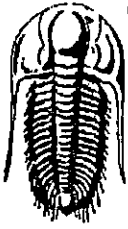
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1814.24	94.45	Initial Hydro-static
3	18.14	95.40	Open To Flow (1)
35	52.73	102.78	Shut-In(1)
77	1267.68	102.85	End Shut-In(1)
77	54.58	101.92	Open To Flow (2)
106	69.46	107.74	Shut-In(2)
139	1267.43	106.60	End Shut-In(2)
141	1813.11	105.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	mud with oil specs	1.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

ATTN: Scott Alberg

Job Ticket: 37939

DST#: 4

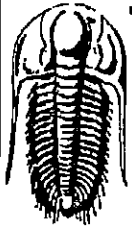
Test Start: 2010.01.20 @ 11:45:00

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 26000.00 lb
			<u>Total Volume: 51.55 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3679.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3664.00	
Hydraulic tool	5.00			3669.00	
Packer	5.00			3674.00	20.00 Bottom Of Top Packer
Packer	5.00			3679.00	
Stubb	1.00			3680.00	
Recorder	0.00	6672	Inside	3680.00	
Recorder	0.00	6752	Inside	3680.00	
Perforations	27.00			3707.00	
Bullnose	3.00			3710.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37939

DST#: 4

ATTN: Scott Alberg

Test Start: 2010.01.20 @ 11:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	mud with oil specs	1.613

Total Length: 115.00 ft

Total Volume: 1.613 bbl

Num Fluid Samples: 0

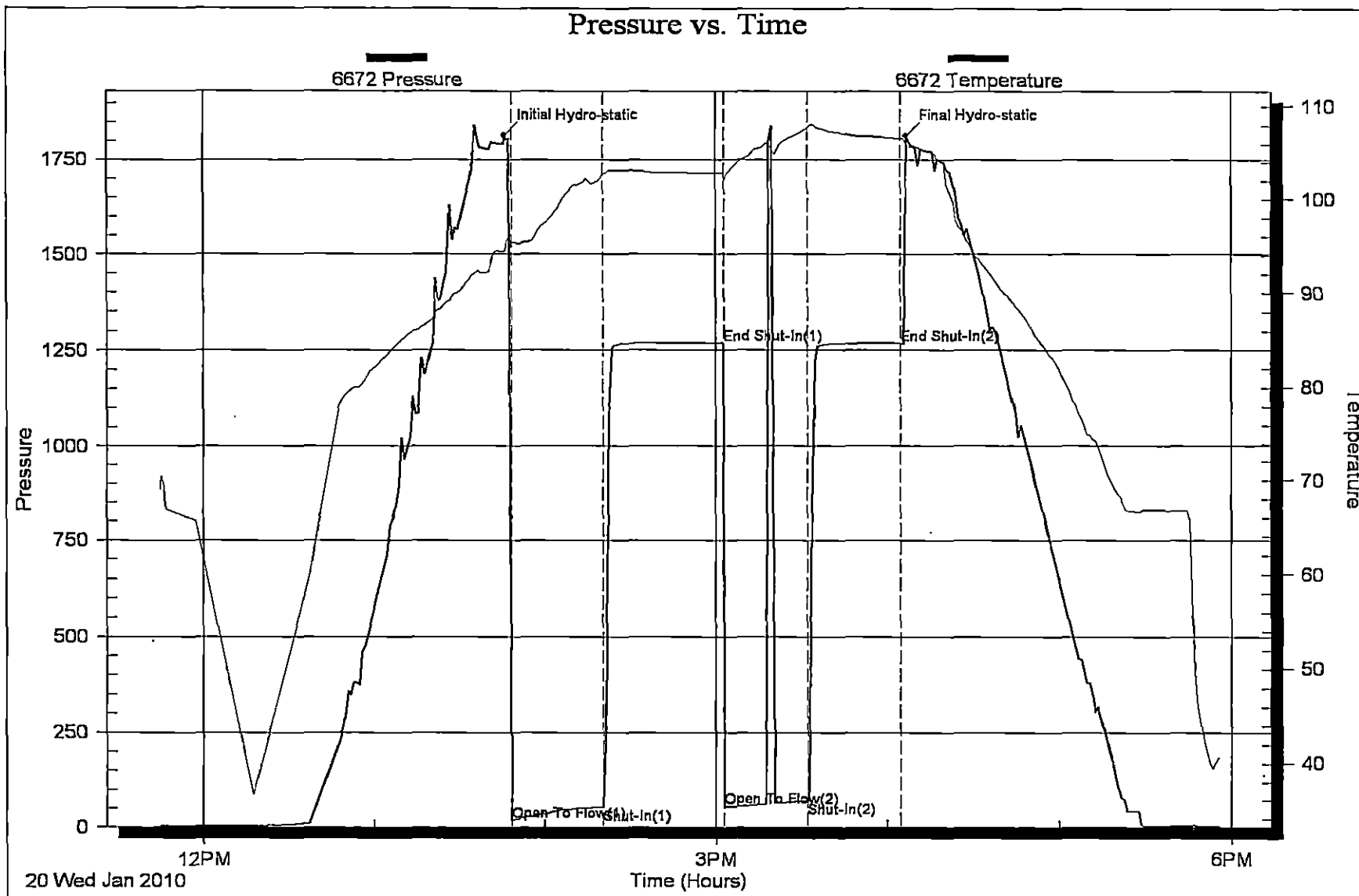
Num Gas Bombs: 0

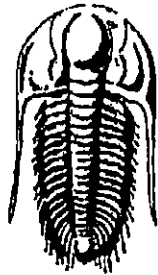
Serial#:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **A&A Discovery LLC.**

748 S. 4 th Ave.
Hill City KS 67642

ATTN: Scott Alberg

9 6S 23W Graham KS

Schuck A #1

Start Date: 2010.01.21 @ 06:40:00

End Date: 2010.01.21 @ 15:53:00

Job Ticket #: 37940 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

A&A Discovery LLC.

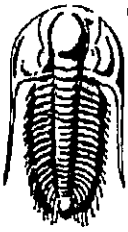
Schuck A #1

9 6S 23W Graham KS

DST # 5

LKC-LJ

2010.01.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

A&A Discovery LLC.
748 S. 4th Ave.
Hill City KS 67642
ATTN: Scott Alberg

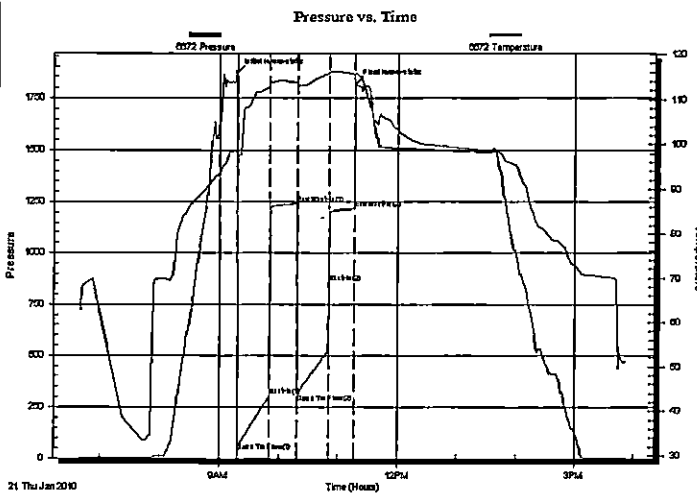
Schuck A #1
9 6S 23W Graham KS
Job Ticket: 37940 DST#: 5
Test Start: 2010.01.21 @ 06:40:00

GENERAL INFORMATION:

Formation: LKC-I-J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:18:30
Time Test Ended: 15:53:00
Interval: 3720.00 ft (KB) To 3780.00 ft (KB) (TVD)
Total Depth: 3780.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Kreutzer
Unit No: 36
Reference Elevations: 2432.00 ft (KB)
2428.00 ft (CF)
KB to GR/CF: 4.00 ft

Serial #: 6672 Inside
Press@RunDepth: 855.77 psig @ 3728.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.01.21 End Date: 2010.01.21 Last Calib.: 2010.01.21
Start Time: 06:40:05 End Time: 15:53:00 Time On Btm: 2010.01.21 @ 09:17:00
Time Off Btm: 2010.01.21 @ 11:17:29

TEST COMMENT: IF: Weak blow built to 3/4 in. started to Die after 15 mins. Died to 1/4 in. over 30 mins.
IS: No blow back over 30 mins.
FF: Weak blow built to 1/4 in. over 30 mins.
FS: No blow back over 30 min



PRESSURE SUMMARY

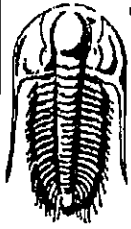
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.15	98.24	Initial Hydro-static
2	37.37	97.51	Open To Flow (1)
34	303.52	113.33	Shut-In(1)
62	1239.67	113.76	End Shut-In(1)
63	313.52	113.26	Open To Flow (2)
94	855.77	115.95	Shut-In(2)
119	1216.42	115.61	End Shut-In(2)
121	1818.90	115.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
604.00	mcw - 10% m 90% w	7.63
124.00	w cm - 50% w 50% m	1.74
124.00	w cm - 40% w 60% m	1.74
186.00	w cm - 20% w 80% m	2.61
62.00	w cm - 10% w 90% m - w with oil specs	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

ATTN: Scott Alberg

Job Ticket: 37940

DST#: 5

Test Start: 2010.01.21 @ 06:40:00

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 51.17 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3720.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3705.00	
Hydraulic tool	5.00			3710.00	
Packer	5.00			3715.00	20.00 Bottom Of Top Packer
Packer	5.00			3720.00	
Stubb	1.00			3721.00	
Perforations	7.00			3728.00	
Recorder	0.00	6672	Inside	3728.00	
Recorder	0.00	6752	Inside	3728.00	
Blank Spacing	31.00			3759.00	
Perforations	18.00			3777.00	
Bullnose	3.00			3780.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37940

DST#: 5

ATTN: Scott Alberg

Test Start: 2010.01.21 @ 06:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
604.00	mcw -10%m90%w	7.631
124.00	w cm-50%w 50%m	1.739
124.00	w cm-40%w 60%m	1.739
186.00	w cm-20%w 80%m	2.609
62.00	w cm-10%w 90%m-w ith oil specs	0.870

Total Length: 1100.00 ft Total Volume: 14.588 bbl

Num Fluid Samples: 0

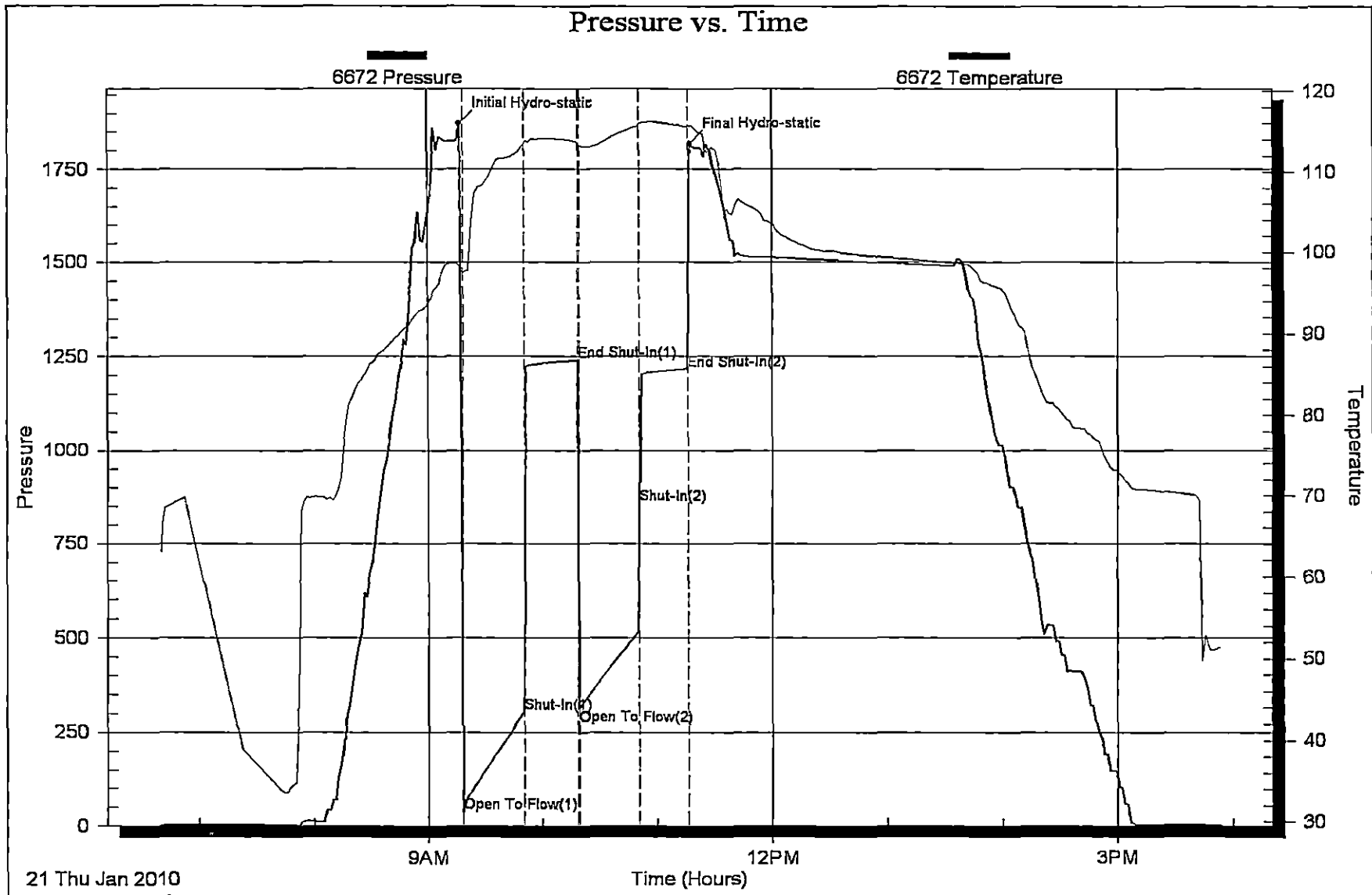
Num Gas Bombs: 0

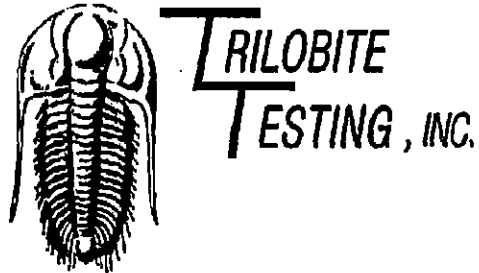
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15 @ 68F = 40000 chlorides





DRILL STEM TEST REPORT

Prepared For: **A&A Discovery LLC.**

748 S. 4 th Ave.
Hill City KS 67642

ATTN: Scott Alberg

9 6S 23W Graham KS

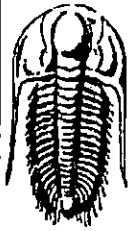
Schuck A #1

Start Date: 2010.01.22 @ 13:30:00

End Date: 2010.01.22 @ 21:15:30

Job Ticket #: 37941 DST #: 6

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37941

DST#: 6

ATTN: Scott Alberg

Test Start: 2010.01.22 @ 13:30:00

GENERAL INFORMATION:

Formation: LKC-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:12:30

Time Test Ended: 21:15:30

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer

Unit No: 36

Interval: 3779.00 ft (KB) To 3795.00 ft (KB) (TVD)

Total Depth: 3795.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2432.00 ft (KB)

2428.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6752

Inside

Press@RunDepth: 122.71 psig @ 3780.00 ft (KB)

Start Date: 2010.01.22

End Date:

2010.01.22

Start Time: 13:30:05

End Time:

21:15:29

Capacity: 8000.00 psig

Last Calib.: 2010.01.22

Time On Btm: 2010.01.22 @ 16:11:00

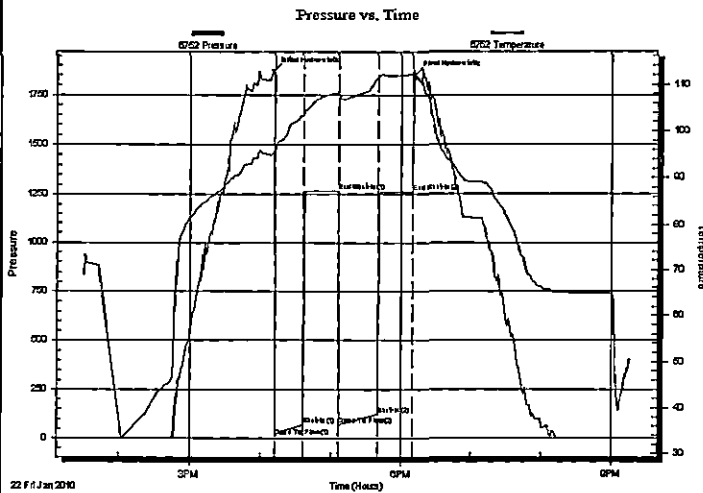
Time Off Btm: 2010.01.22 @ 18:11:30

TEST COMMENT: IF: Weak surface blow died in 1 min.

IS: No blow back over 30 mins.

FF: No blow over 30 mins.

FS: No blow back over 30 mins.



PRESSURE SUMMARY

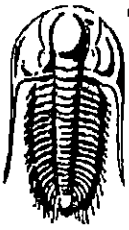
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.54	95.21	Initial Hydro-static
2	10.93	95.24	Open To Flow (1)
26	68.71	103.52	Shut-in(1)
56	1267.68	108.23	End Shut-in(1)
56	70.33	107.77	Open To Flow (2)
89	122.71	111.56	Shut-in(2)
119	1262.46	112.21	End Shut-in(2)
121	1851.30	112.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
308.00	mcw-20%w 80%m	4.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37941

DST#: 6

ATTN: Scott Alberg

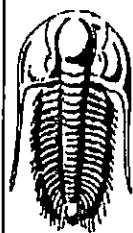
Test Start: 2010.01.22 @ 13:30:00

Tool Information

Drill Pipe:	Length: 3768.00 ft	Diameter: 3.80 inches	Volume: 52.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 52.86 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3779.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3764.00	
Hydraulic tool	5.00			3769.00	
Packer	5.00			3774.00	20.00 Bottom Of Top Packer
Packer	5.00			3779.00	
Stubb	1.00			3780.00	
Recorder	0.00	6672	Inside	3780.00	
Recorder	0.00	6752	Inside	3780.00	
Perforations	12.00			3792.00	
Bullnose	3.00			3795.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

A&A Discovery LLC.

Schuck A #1

748 S. 4 th Ave.
Hill City KS 67642

9 6S 23W Graham KS

Job Ticket: 37941

DST#: 6

ATTN: Scott Alberg

Test Start: 2010.01.22 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.18 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
308.00	mcw -20%w 80%m	4.320

Total Length: 308.00 ft Total Volume: 4.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18 @ 60F = 50000 chlorides

