

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

**ORIGINAL**

1508  
1-5-09  
Form ACO-1  
September 1999  
Form Must Be Typed

Operator: License # 30076  
Name: A & A PRODUCTION  
Address: PO BOX 100  
City/State/Zip: HILL CITY KS 67642  
Purchaser: \_\_\_\_\_  
Operator Contact Person: ANDY ANDERSON  
Phone: ( 785 ) 421-2234  
Contractor: Name: ANDERSON DRILLING  
License: 33237  
Wellsite Geologist: MARK TORR

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. \_\_\_\_\_

<u>12-09-06</u>	<u>12-16-06</u>	<u>12-17-06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23257-00-00  
County: GRAHAM  
SW SE NE NW Sec. 26 Twp. 8 S. R. 21  East  West  
1180 feet from S /  (circle one) Line of Section  
2090 feet from E /  (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: BERLAND TRUST Well #: 1  
Field Name: WILDCAT

Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2083' Kelly Bushing: \_\_\_\_\_  
Total Depth: 3745 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** PA NH 9-8-08  
(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: Andy Anderson  
Title: Operator Date: 12-20-06  
Subscribed and sworn to before me this 20<sup>th</sup> day of December,  
2006.

Notary Public: Rita A. Anderson  
Date Commission: January 21, 2008  
STATE OF KANSAS  
My App. Exp. 1-21-08

**KCC Office Use ONLY**

Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received **RECEIVED**  
**KANSAS CORPORATION COMMISSION**

Geologist Report Received  
**JAN 08 2007**

UIC Distribution

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: A & A PRODUCTION

Lease Name: BERLAND TRUST

Well #: 1

**CONFIDENTIAL**

Sec. 26 Twp. 8 S. R. 21  East  West

County: GRAHAM

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

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy)

List All E. Logs Run:

*Dual Induction Log  
Dual Compensated Porosity log*

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
ANHYDRITE	1616'	+472
HEEBNER	3288'	-1200
TORONTO	3311'	-1223
LANSING-KANSAS CITY	3328'	-1240
BASE KANSAS CITY	3546'	-1458
MARMATON	3576'	-1488
ARBUCKLE	3653'	-1565
RTD	3745'	-1657

CASING RECORD  New  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
<b>SURFACE</b>	12 1/4"	8 5/8"	20 #	218	COM	160	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 (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumerd 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

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

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

Production Interval: \_\_\_\_\_

**RECEIVED**  
KANSAS CORPORATION COMMISSION

JAN 08 2007

Allied Cementing Co., Inc  
P.O. Box 31

Russell, KS 67665

\*\*\*\*\*  
\* INVOICE \*  
\*\*\*\*\*

Invoice Number: 105903

Invoice Date: 12/14/06

Sold A & A Production  
To: P. O. Box 100  
Hill City, KS  
67642

**KCC**  
JAN 05 2007  
**CONFIDENTIAL**

Cust I.D.....: A&APro  
P.O. Number...: Berland TR #1  
P.O. Date.....: 12/14/06

Due Date.: 01/13/07  
Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	160.00	SKS	10.6500	1704.00	T
Gel	3.00	SKS	16.6500	49.95	T
Chloride	5.00	SKS	46.6000	233.00	T
Handling	168.00	SKS	1.9000	319.20	E
Mileage	62.00	MILE	15.1200	937.44	E
168 sks @>09 per sk per mi					
Surface	1.00	JOB	815.0000	815.00	E
Mileage pmp trk	62.00	MILE	6.0000	372.00	E
Wooden Plug	1.00	EACH	60.0000	60.00	T

All Prices Are Net, Payable 30 Days Following  
Date of Invoice. 1 1/2% Charged Thereafter.  
If Account CURRENT take Discount of 449.06  
ONLY if paid within 30 days from Invoice Date

Subtotal:	4490.59
Tax.....:	113.61
Payments:	0.00
Total....:	4604.20

*Pd*  
*12-20-06*  
*CK 10664*

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
JAN 08 2007  
CONSERVATION DIVISION  
WICHITA, KS

*4155.04*

Allied Cementing Co., Inc  
 P.O. Box 31  
 Russell, KS 67665

\*\*\*\*\*  
 \* I N V O I C E \*  
 \*\*\*\*\*

Invoice Number: 106080

Invoice Date: 12/26/06

Sold A & A Production  
 To: P. O. Box 100  
 Hill City, KS  
 67642

**KCC**  
**JAN 05 2007**  
**CONFIDENTIAL**

Cust I.D.....: A&APro  
 P.O. Number...: Berland TR #1  
 P.O. Date.....: 12/26/06

Due Date.: 01/25/07  
 Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	129.00	SKS	10.6500	1373.85	T
Pozmix	86.00	SKS	5.8000	498.80	T
FloSeal	54.00	LBS	2.0000	108.00	T
Jel	11.00	SKS	16.6500	183.15	T
Handling	226.00	SKS	1.9000	429.40	T
Mileage	65.00	MILE	20.3400	1322.10	T
226 sks @.09 per sk per mi					
Dry Hole Plug	1.00	JOB	955.0000	955.00	T
Mileage pmp trk	65.00	MILE	6.0000	390.00	T
Dryhole Plug	1.00	EACH	35.0000	35.00	T

All Prices Are Net, Payable 30 Days Following	Subtotal:	5295.30
Date of Invoice. 1 1/2% Charged Thereafter.	Tax.....:	293.89
If Account CURRENT take Discount of <u>529.53</u>	Payments:	0.00
ONLY if paid within 30 days from Invoice Date	Total....:	5589.19

*Od 12-29-06  
 CK 10716*

**RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
**JAN 08 2007**  
**CONSERVATION DIVISION**  
**WICHITA, KS**

*5089.66*

# SnyderTorr, LLC

~~Complete Geological Services~~

P.O. Box 158

Woodston, Kansas 67675

~~(785) 425-6763~~

December 18, 2006

A&A Production  
Berland Trust # 1  
1180' FNL & 2090' FWL  
Section 26-8S-21W  
Graham County, Kansas

**KCC**

JAN 05 2007

**CONFIDENTIAL**

Commenced: 12-09-06.

Pipe Record: 8 5/8" @ 224'

Completed: 12-17-06.

DST: 4 by Trilobite.

Drilled By: A&A, Rig # 1.

Logs: Dual Induction, Dual Porosity.

ELEVATION

2088:KB

2083:GL

Log Tops from KB

ANHYDRITE	1616 Top	+472
	1650 Base	+438
HEEBNER	3288	-1200
TORONTO	3311	-1223
LANSING-KANSAS CITY	3328	-1240
BASE KANSAS-CITY	3546	-1458
MARMATON	3576	-1488
ARBUCKLE	3653	-1565
RTD	3745	-1657
LTD	3750	-1662

The above captioned well was under my supervision from a rotary depth of 2900' to a rotary total depth of 3745'. Ten foot samples, washed and dried, were examined from 3000' to RTD. Due to low structural position, and poor drill stem test results, it was recommended to plug and abandon this test well.

Respectfully,

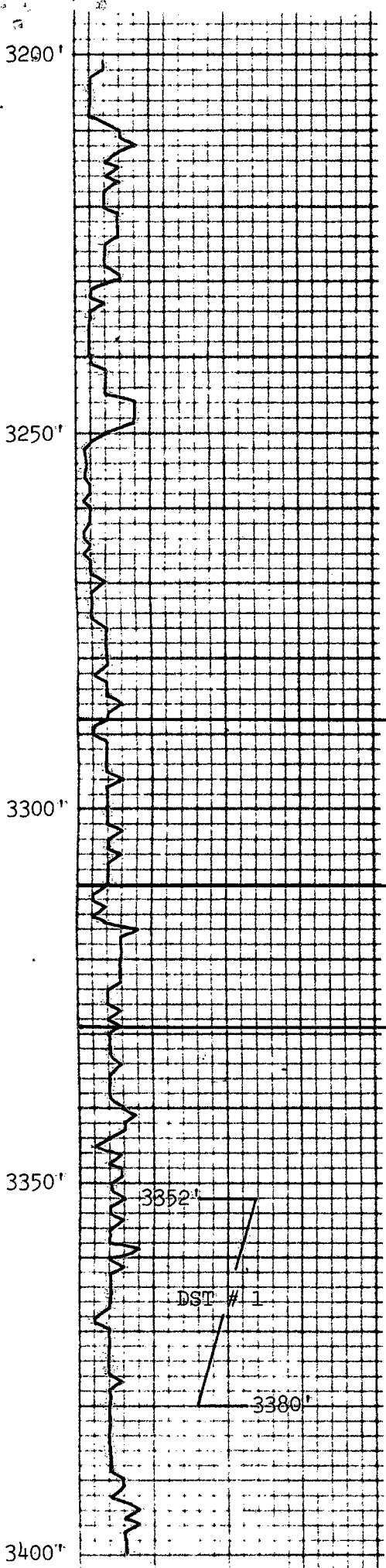
*Mark Torr*

Mark Torr  
~~Petroleum Geologist~~  
SnyderTorr, LLC

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 08 2007

CONSERVATION DIVISION  
WICHITA, KS



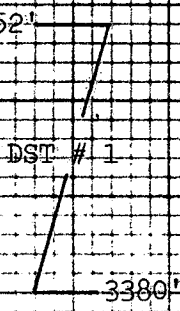
**KCC**  
**JAN 05 2007**  
**CONFIDENTIAL**

HEEBNER SHALE 3288' (-1200) E-Log Same

TORONTO 3310' (-1222) E-Log 3311' (-1223)

LANSING-KANSAS CITY 3329' (-1241) E-Log 3328' (-1240)

3329' to 3334': Chalky off-white limestone. Mostly fine crystalline, with few fossils and oolites. Little visible porosity. Rare stain, no free oil and no odor.

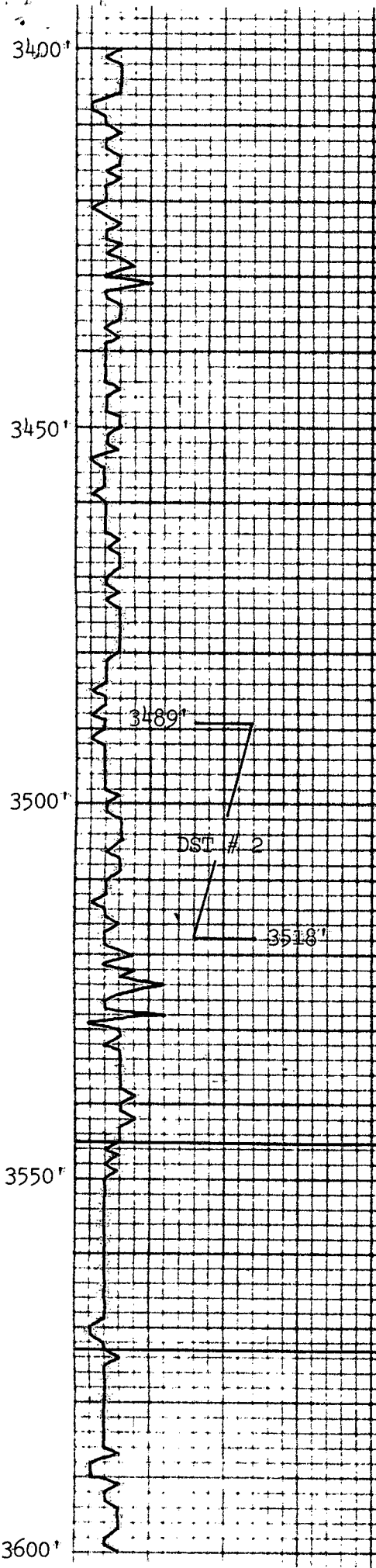


3367' to 3370': Off-white to tan limestone. Fine to medium crystalline, with fossils and oolites. Good inter-oolitic porosity. Good show of oil, very faint odor, and a spotted to even saturated stain. This zone was covered in DST # 1.

**RECEIVED**  
**KANSAS CORPORATION COMMISSION**

**JAN 08 2007**

**CONSERVATION DIVISION**  
**WICHITA, KS**



3411' to 3414': Dense, chalky off-white limestone. Few scattered fossils. Light spotted stain, no free oil and no odor.

3487' to 3489': Off-white to gray limestone. Chalky, with no free oil, faint odor and a light stain.

3499' to 3502': Off-white to tan limestone. Friable fine crystalline. Show of free oil, strong odor, and a medium to dark saturated stain. This zone was covered in DST # 2.

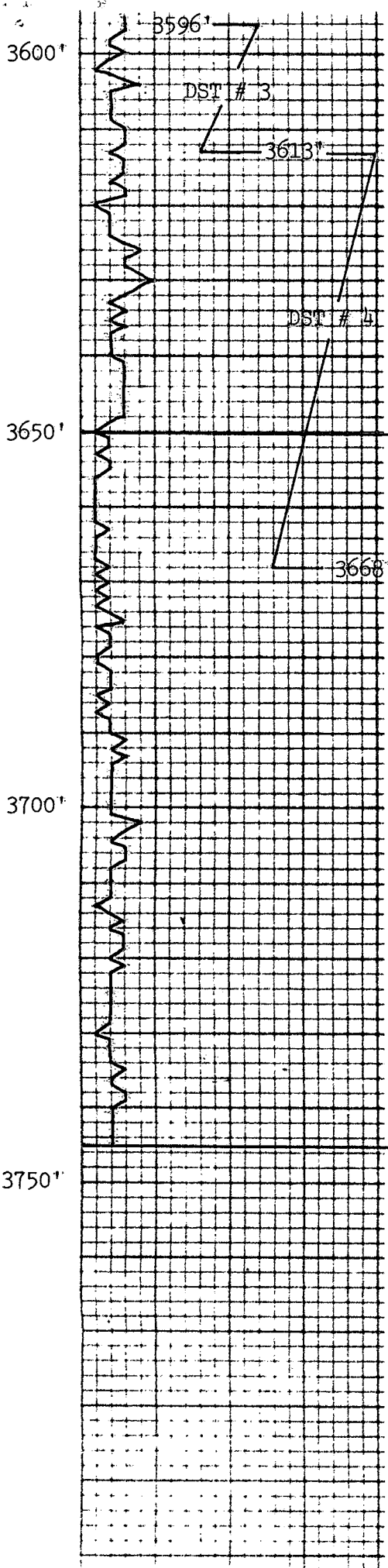
(Brakes out of adjustment).

BASE KANSAS CITY 3545 (-1457) E-Log 3546' (-1458)

MARMATON 3573' (-1485) E-Log 3576' (-1488)

3575' to 3585': Tan friable limestone. No free oil, faint odor, spotted to even stain.

**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 JAN 08 2007  
 CONSERVATION DIVISION  
 WICHITA, KS



3600' to 3604': Tan limestone, with pinpoint porosity. Good show of free oil, strong odor, and a dark saturated stain. This zone was covered in DST # 3.

ARBUCKLE 3650' (-1562) E-Log 3653 (-1565)

3650' to 3663': Gray to light tan dolomite. Most fine crystalline. Some pinpoint porosity, with a good show of asphaltic oil, no free oil and no odor. This zone was covered in DST # 4.

3745' Drillers TD E-Log TD 3750'

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JAN 08 2007  
 CONSERVATION DIVISION  
 WICHITA, KS



Drill Stem Tests:

DST # 1:

Interval Tested: 3352' to 3380' (L-KC "C" Zone).

Times: 30-30-60-30.

Recovery: 700' of saltwater.

Flow Pressures: 22 to 144 & 151 to 342.

Shut-in Pressures: 1169 to 1090.

DST # 2:

Interval Tested: 3489' to 3518'. (L-KC "J" Zone).

Times: 10-15-15-0.

Recovery: 2' of drilling mud.

Flow Pressures: 12 to 13 & 13 to 14.

Shut-in Pressure: 423.

DST # 3:

Interval Tested: 3596' to 3613'. (Marmaton).

Times: 30-30-15-15.

Recovery: 5' of oil stained drilling mud.

Flow Pressures: 13 to 14 & 15 to 15.

Shut-in Pressures: 1107 to 48.

DST # 4:

Interval Tested: 3613' to 3668'. (Arbuckle).

Times: 60-60-60-60.

Recovery: 180' of watery mud with a few oil spots & 210' of muddy water.

Flow Pressures: 22 to 131 & 133 to 192.

Shut-in Pressures: 686 to 611.

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 08 2007

CONSERVATION DIVISION  
WICHITA, KS

~~1508~~

1-5-09

A & A PRODUCTION LIC 30076  
P. O. BOX 100  
HILL CITY KS 67642  
785-421-6266  
FAX: 785-421-2483

JAN 5, 2007

**KCC**  
JAN 05 2007  
**CONFIDENTIAL**

KS CORPORATION COMMISSION  
130 S MARKET ROOM 2078  
WICHITA KS 67202

REF: BERLAND TRUST #1  
API 15-065-23257-00-00

Dear Sir:

We want to keep all records confidentiality for a period of 12 months.

Thank you,

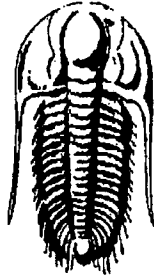
A & A PRODUCTION



Rita Anderson  
Sec/Treas

cc: File

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
JAN 08 2007  
CONSERVATION DIVISION  
WICHITA, KS



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

## DRILL STEM TEST REPORT

Prepared For: **A & A Production**

PO Box 100  
Hill City KS 67642

ATTN: Andy Anderson

**26 8S 21W Graham KS**

**Berland Trust # 1**

Start Date: 2006.12.14 @ 18:31:08

End Date: 2006.12.15 @ 01:02:08

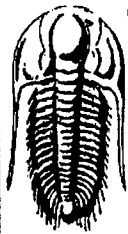
Job Ticket #: 26175                      DST #: 1

**KCC**  
**JAN 05 2007**  
**CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 26175

**DST#: 1**

ATTN: Andy Anderson

Test Start: 2006.12.14 @ 18:31:08

## GENERAL INFORMATION:

Formation: **L.Kc.-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:13:38

Time Test Ended: 01:02:08

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3352.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Reference Elevations: 2088.00 ft (KB)

Total Depth: 3380.00 ft (KB) (TVD)

2083.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8018 Inside**

Press@RunDepth: 342.87 psig @ 3354.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.12.14

End Date:

2006.12.15

Last Calib.: 2006.12.15

Start Time: 18:31:13

End Time:

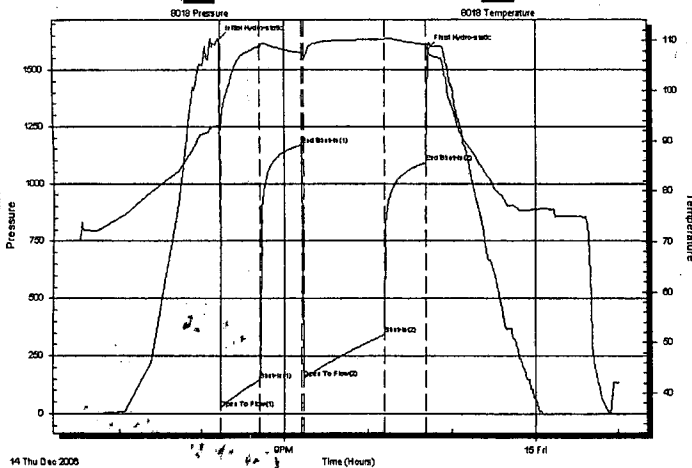
01:02:07

Time On Btm: 2006.12.14 @ 20:13:08

Time Off Btm: 2006.12.14 @ 22:42:38

**TEST COMMENT:** IF Strong BOB in 11 min.  
ISI Dead  
FF Strong BOB in 13 min.  
FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

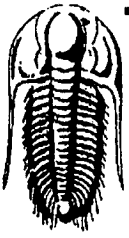
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.82	93.00	Initial Hydro-static
1	22.64	92.64	Open To Flow (1)
29	144.59	108.88	Shut-In(1)
60	1169.11	107.55	End Shut-In(1)
61	151.35	106.89	Open To Flow(2)
119	342.87	110.24	Shut-In(2)
149	1090.82	109.31	End Shut-In(2)
150	1589.73	109.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
700.00	SW	9.82

Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 26175

**DST#: 1**

ATTN: Andy Anderson

Test Start: 2006.12.14 @ 18:31:08

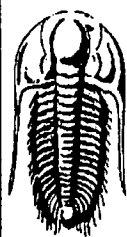
**Tool Information**

Drill Pipe:	Length: 3347.00 ft	Diameter: 3.80 inches	Volume: 46.95 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42.00 lb
			<u>Total Volume: 46.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3352.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3333.00	
Shut In Tool	5.00			3338.00	
Hydraulic tool	5.00			3343.00	
Packer	4.00			3347.00	20.00 Bottom Of Top Packer
Packer	5.00			3352.00	
Stubb	1.00			3353.00	
Perforations	1.00			3354.00	
Recorder	0.00	8018	inside	3354.00	
Perforations	23.00			3377.00	
Recorder	0.00	11084	Outside	3377.00	
Bullnose	3.00			3380.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 26175      **DST#: 1**

ATTN: Andy Anderson

Test Start: 2006.12.14 @ 18:31:08

## 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: 70000 ppm	
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

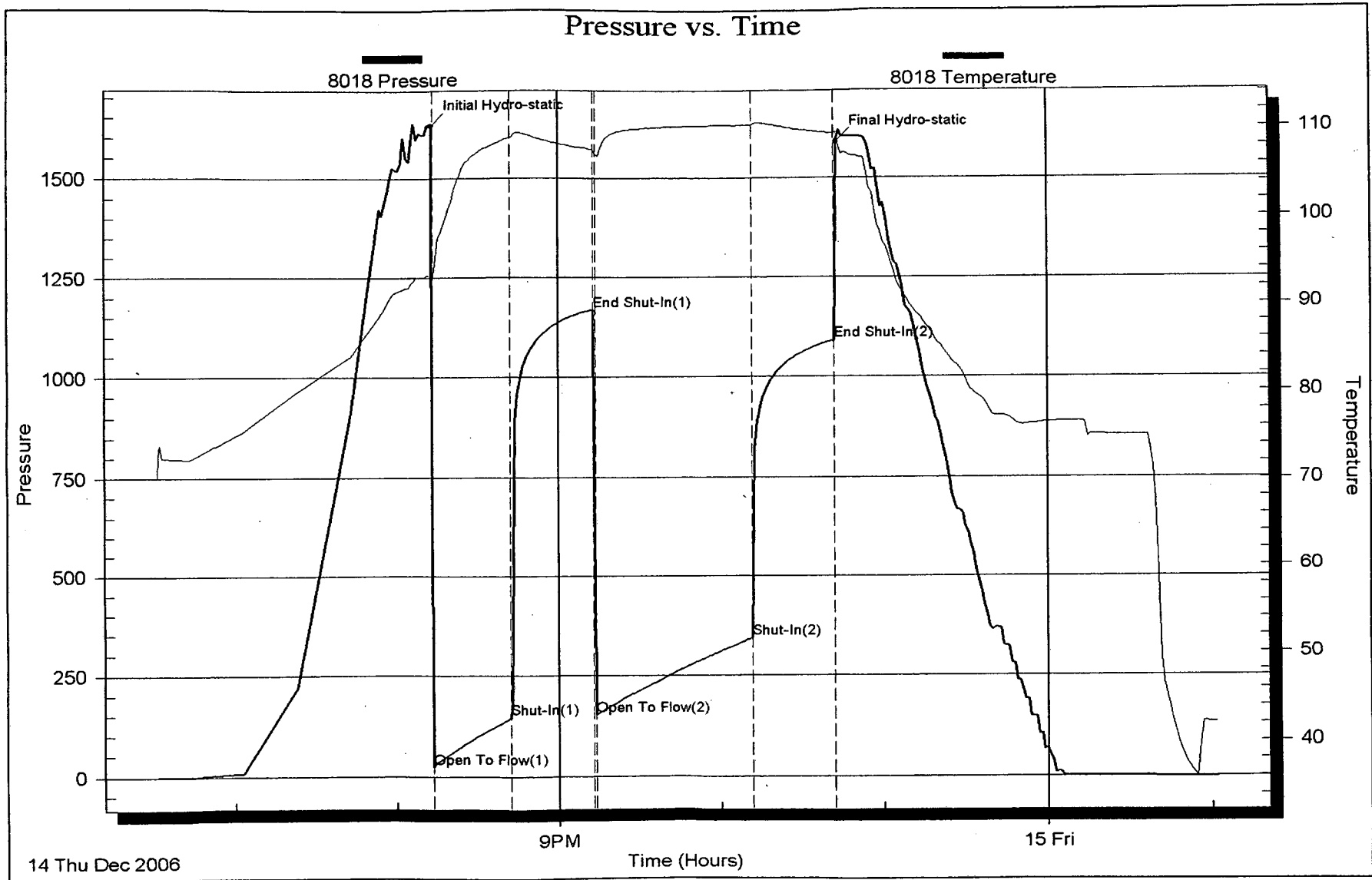
Length ft	Description	Volume bbl
700.00	SW	9.819

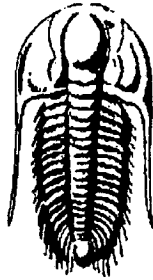
Total Length: 700.00 ft      Total Volume: 9.819 bbl

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 Production**

PO Box 100  
Hill City KS 67642

ATTN: Andy Anderson

**26 8S 21W Graham KS**

**Berland Trust # 1**

Start Date: 2006.12.15 @ 15:59:08

End Date: 2006.12.15 @ 20:31:08

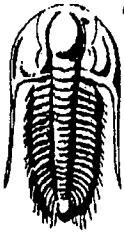
Job Ticket #: 27126                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

A & A Production

PO Box 100  
Hill City KS 67642

ATTN: Andy Anderson

**Berland Trust # 1**

**26 8S 21W Graham KS**

Job Ticket: 27126      **DST#: 2**

Test Start: 2006.12.15 @ 15:59:08

## GENERAL INFORMATION:

Formation: **L.Kc.-J**

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

Time Tool Opened: 17:54:38

Time Test Ended: 20:31:08

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3489.00 ft (KB) To 3518.00 ft (KB) (TVD)**

Total Depth: **3380.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2088.00 ft (KB)**

**2083.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8018**

**Inside**

Press@RunDepth: **13.71 psig @ 3492.00 ft (KB)**

Start Date: **2006.12.15**

End Date: **2006.12.15**

Capacity: **7000.00 psig**

Last Calib.: **2006.12.15**

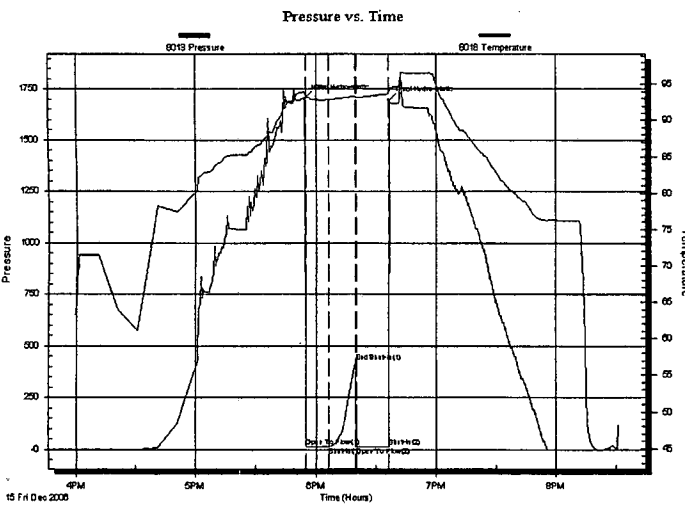
Start Time: **15:59:13**

End Time: **20:31:07**

Time On Btm: **2006.12.15 @ 17:54:08**

Time Off Btm: **2006.12.15 @ 18:36:38**

TEST COMMENT: IF Weak Dead in 5 min.  
ISI Dead  
FF Dead flush tool no help



## PRESSURE SUMMARY

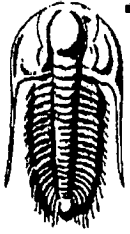
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.50	93.84	Initial Hydro-static
1	12.64	93.32	Open To Flow (1)
12	13.71	92.89	Shut-In(1)
26	423.83	93.34	End Shut-In(1)
26	13.64	93.21	Open To Flow (2)
42	14.02	93.64	Shut-In(2)
43	1693.13	94.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM	0.03

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27126

**DST#: 2**

ATTN: Andy Anderson

Test Start: 2006.12.15 @ 15:59:08

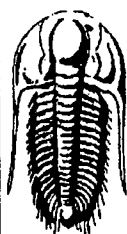
**Tool Information**

Drill Pipe:	Length: 3498.00 ft	Diameter: 3.80 inches	Volume: 49.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 49.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3489.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3470.00	
Shut In Tool	5.00			3475.00	
Hydraulic tool	5.00			3480.00	
Packer	4.00			3484.00	20.00 Bottom Of Top Packer
Packer	5.00			3489.00	
Stubb	1.00			3490.00	
Perforations	2.00			3492.00	
Recorder	0.00	8018	Inside	3492.00	
Perforations	23.00			3515.00	
Recorder	0.00	13308	Outside	3515.00	
Bullnose	3.00			3518.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27126      **DST#: 2**

ATTN: Andy Anderson

Test Start: 2006.12.15 @ 15:59:08

### Mud and Cushion Information

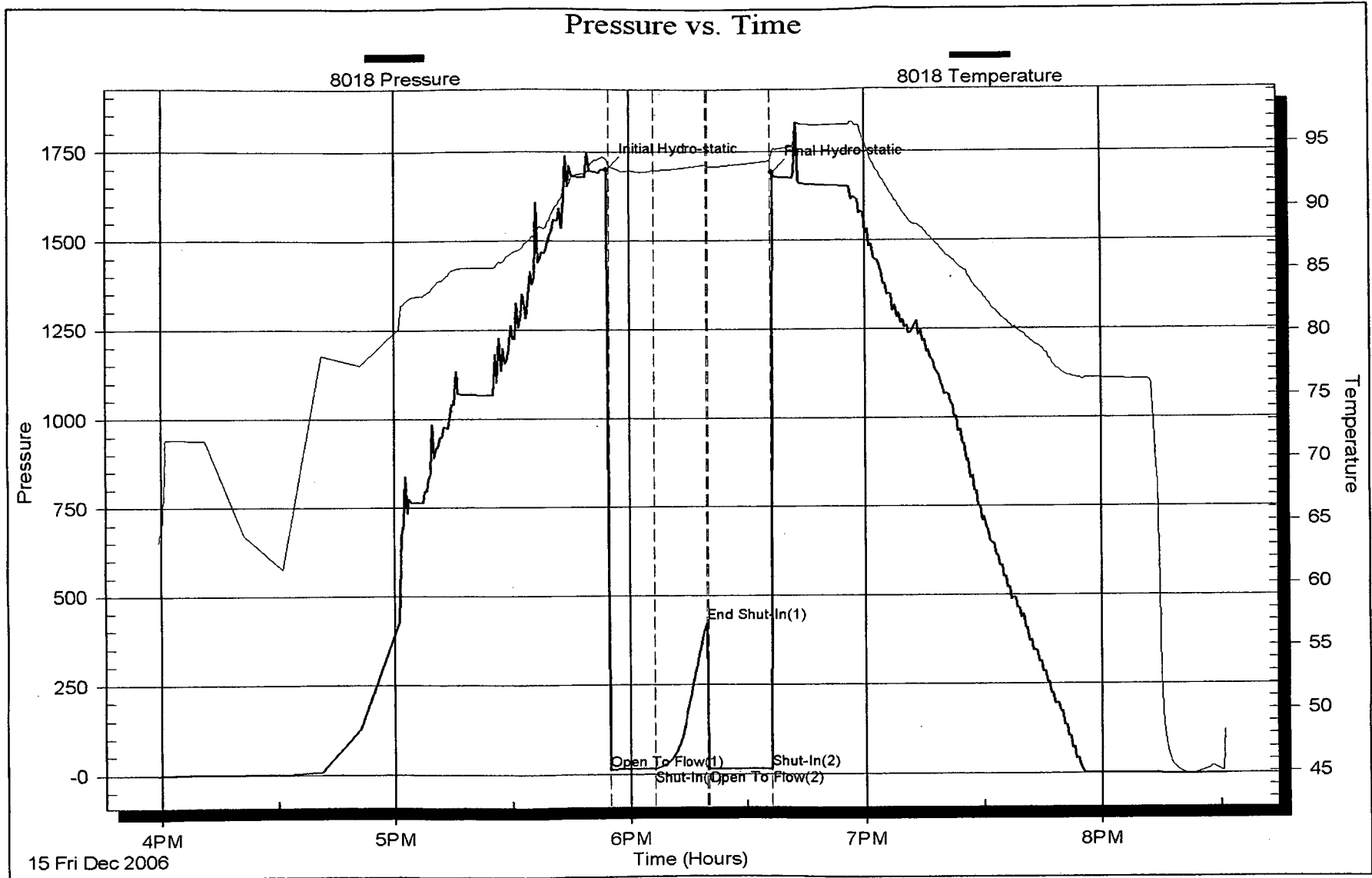
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

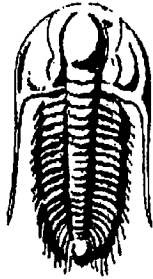
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	DM	0.028

Total Length: 2.00 ft      Total Volume: 0.028 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 Production**

PO Box 100  
Hill City KS 67642

ATTN: Andy Anderson

**26 8S 21W Graham KS**

**Berland Trust # 1**

Start Date: 2006.12.16 @ 21:12:45

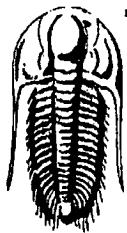
End Date: 2006.12.17 @ 02:12:15

Job Ticket #: 27127                      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

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27127

**DST#: 3**

ATTN: Andy Anderson

Test Start: 2006.12.16 @ 21:12:45

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:48:45

Time Test Ended: 02:12:15

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 31

Interval: **3596.00 ft (KB) To 3613.00 ft (KB) (TVD)**

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2088.00 ft (KB)

2083.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8018** Inside

Press@RunDepth: 15.57 psig @ 3598.00 ft (KB)

Start Date: 2006.12.16

End Date:

2006.12.17

Start Time: 21:12:50

End Time:

02:12:14

Capacity: 7000.00 psig

Last Calib.: 2006.12.17

Time On Btm: 2006.12.16 @ 22:48:15

Time Off Btm: 2006.12.17 @ 00:19:15

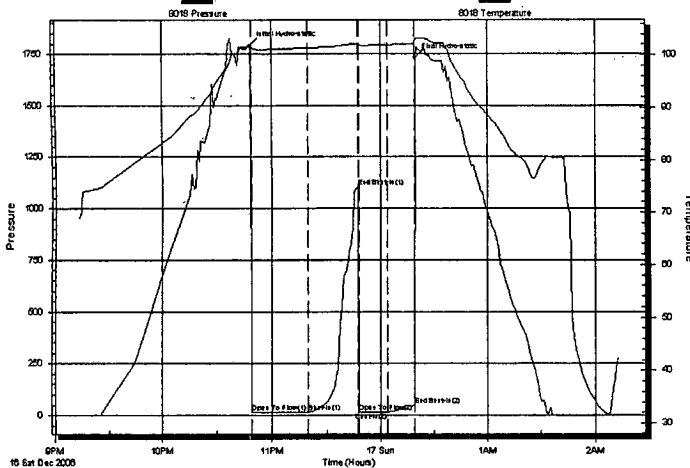
TEST COMMENT: IF Weak Dead in 8 min.

ISI Dead

FF Dead

FSI Dead

Pressure vs. Time



## PRESSURE SUMMARY

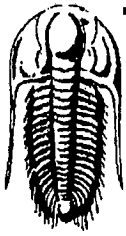
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.80	101.57	Initial Hydro-static
1	13.48	101.18	Open To Flow (1)
32	14.37	101.32	Shut-In(1)
59	1107.43	102.17	End Shut-In(1)
60	15.39	101.84	Open To Flow(2)
76	15.57	101.93	Shut-In(2)
91	48.28	102.17	End Shut-In(2)
91	1731.00	103.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil stain DM	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27127

**DST#: 3**

ATTN: Andy Anderson

Test Start: 2006.12.16 @ 21:12:45

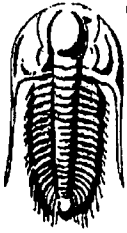
**Tool Information**

Drill Pipe:	Length: 3596.00 ft	Diameter: 3.80 inches	Volume: 50.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3596.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	3613.00 ft			
Interval between Packers:	17.00 ft			
Tool Length:	173.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3577.00	
Shut In Tool	5.00			3582.00	
Hydraulic tool	5.00			3587.00	
Packer	4.00			3591.00	20.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Perforations	1.00			3598.00	
Recorder	0.00	8018	Inside	3598.00	
Perforations	14.00			3612.00	
Recorder	0.00	13308	Outside	3612.00	
Blank Off Sub	1.00			3613.00	17.00 Tool Interval
Packer	0.00			3613.00	
Perforations	2.00			3615.00	
Change Over Sub	1.00			3616.00	
Recorder	0.00	11084	Below	3616.00	
Blank Spacing	125.00			3741.00	
Change Over Sub	1.00			3742.00	
Perforations	4.00			3746.00	
Bullnose	3.00			3749.00	136.00 Bottom Packers & Anchor

**Total Tool Length: 173.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27127

**DST#: 3**

ATTN: Andy Anderson

Test Start: 2006.12.16 @ 21:12:45

**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: 48.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
5.00	Oil stain DM	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

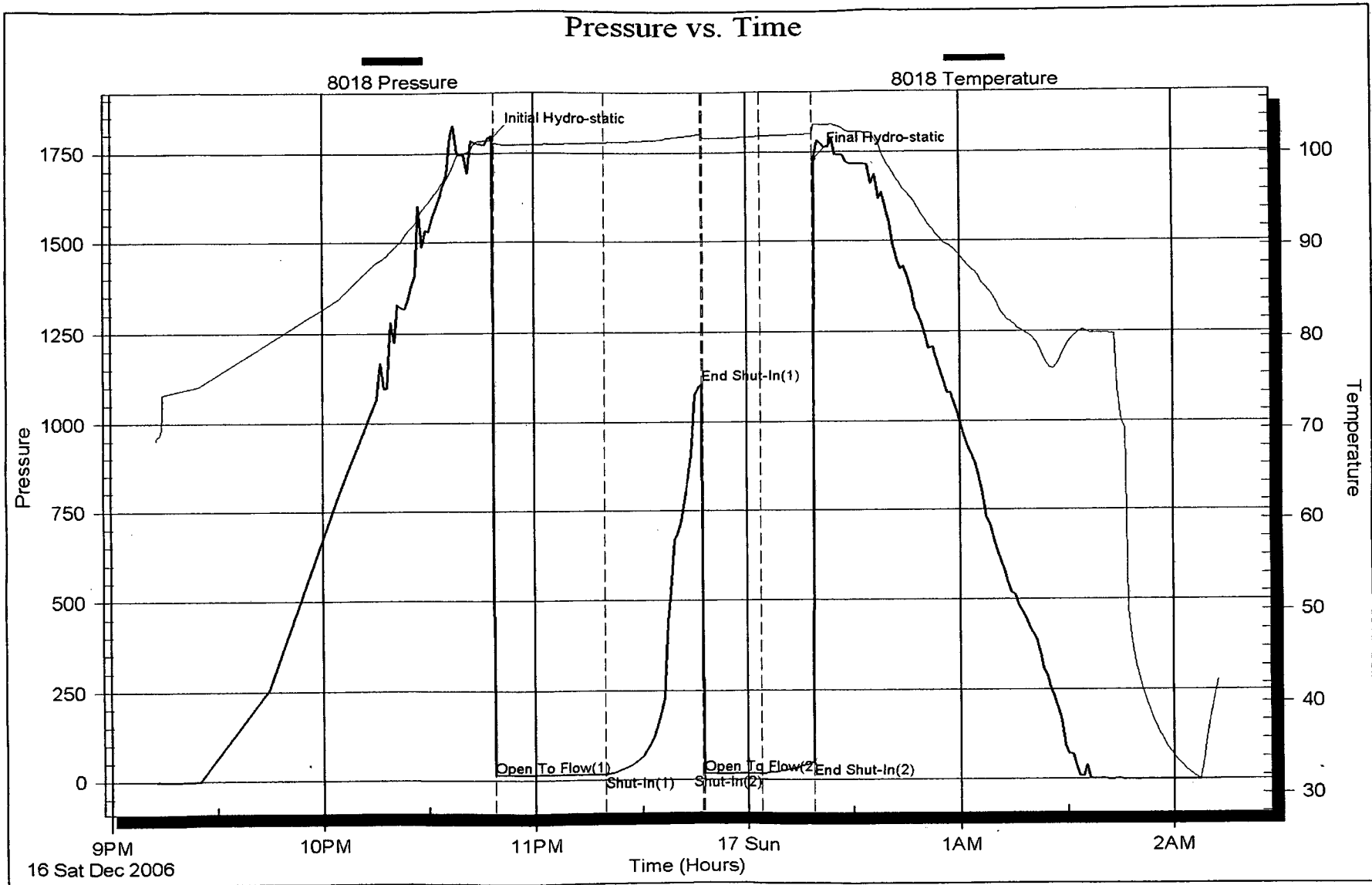
Serial #:

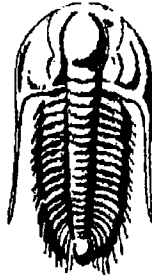
Laboratory Name:

Laboratory Location:

Recovery Comments:







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

## DRILL STEM TEST REPORT

Prepared For: **A & A Production**

PO Box 100  
Hill City KS 67642

ATTN: Andy Anderson

**26 8S 21W Graham KS**

**Berland Trust # 1**

Start Date: 2006.12.17 @ 02:22:15

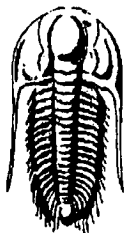
End Date: 2006.12.17 @ 10:04:45

Job Ticket #: 27128                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27128 **DST#: 4**

ATTN: Andy Anderson

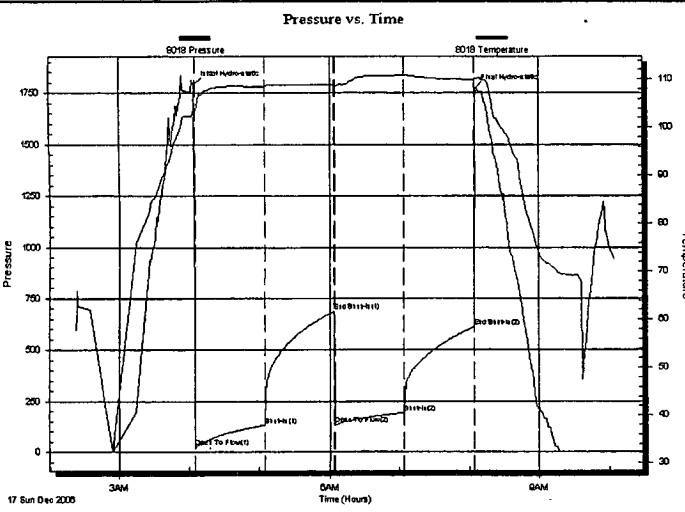
Test Start: 2006.12.17 @ 02:22:15

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:05:15  
 Time Test Ended: 10:04:45  
 Interval: **3613.00 ft (KB) To 3668.00 ft (KB) (TVD)**  
 Total Depth: 3750.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle  
 Tester: John Schmidt  
 Unit No: 31  
 Reference Elevations: 2088.00 ft (KB)  
 2083.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: 192.35 psig @ 3616.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2006.12.17 End Date: 2006.12.17 Last Calib.: 2006.12.17  
 Start Time: 02:22:20 End Time: 10:04:44 Time On Btm: 2006.12.17 @ 04:04:45  
 Time Off Btm: 2006.12.17 @ 08:05:15

**TEST COMMENT:** IF Strong BOB 17 min.  
 ISI Dead  
 FF Weak to fair built 6"  
 FSI Dead



## PRESSURE SUMMARY

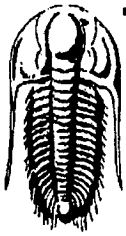
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.61	103.50	Initial Hydro-static
1	22.22	103.19	Open To Flow (1)
60	131.25	108.53	Shut-In(1)
119	686.54	108.78	End Shut-In(1)
120	133.49	108.52	Open To Flow (2)
179	192.35	110.85	Shut-In(2)
240	611.76	109.90	End Shut-In(2)
241	1769.84	110.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	VM Few Oil spots	2.52
210.00	MSW 10%M 90%W	2.95

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27128

**DST#: 4**

ATTN: Andy Anderson

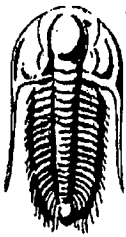
Test Start: 2006.12.17 @ 02:22:15

**Tool Information**

Drill Pipe:	Length: 3597.00 ft	Diameter: 3.80 inches	Volume: 50.46 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>50.46 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3613.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	3668.00 ft			
Interval between Packers:	55.00 ft			
Tool Length:	157.00 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3594.00	
Shut In Tool	5.00			3599.00	
Hydraulic tool	5.00			3604.00	
Packer	4.00			3608.00	20.00 Bottom Of Top Packer
Packer	5.00			3613.00	
Stubb	1.00			3614.00	
Perforations	2.00			3616.00	
Recorder	0.00	8018	Inside	3616.00	
Change Over Sub	1.00			3617.00	
Blank Spacing	30.00			3647.00	
Change Over Sub	1.00			3648.00	
Perforations	19.00			3667.00	
Recorder	0.00	13308	Outside	3667.00	
Blank Off Sub	1.00			3668.00	
Packer	0.00			3668.00	55.00 Tool Interval
Packer	5.00			3673.00	
Stubb	1.00			3674.00	
Perforations	3.00			3677.00	
Change Over Sub	1.00			3678.00	
Recorder	0.00	11084	Below	3678.00	
Blank Spacing	64.00			3742.00	
Change Over Sub	1.00			3743.00	
Perforations	4.00			3747.00	
Bullnose	3.00			3750.00	82.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>157.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

A & A Production

**Berland Trust # 1**

PO Box 100  
Hill City KS 67642

**26 8S 21W Graham KS**

Job Ticket: 27128      **DST#: 4**

ATTN: Andy Anderson

Test Start: 2006.12.17 @ 02:22:15

### 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: 25000 ppm	
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	WM Few Oil spots	2.525
210.00	MSW 10%M 90%W	2.946

Total Length: 390.00 ft      Total Volume: 5.471 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

